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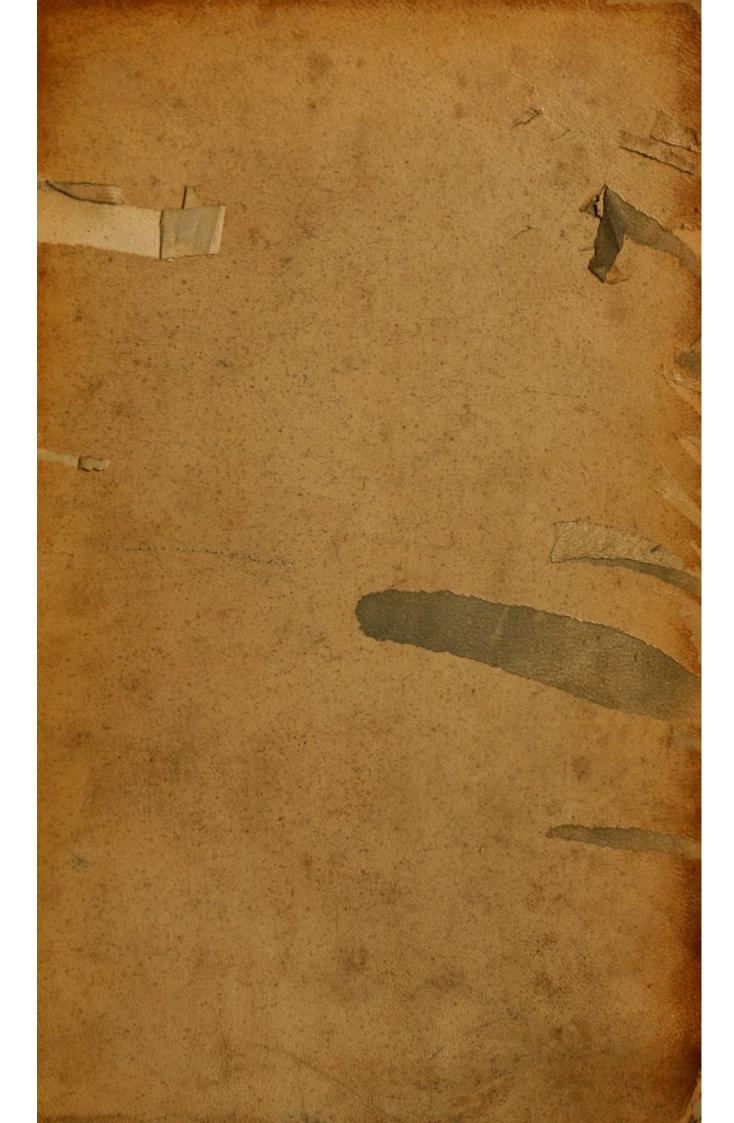
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UNIVERSAL FORMULARY:

CONTAINING THE METHODS OF

PREPARING AND ADMINISTERING

OFFICINAL AND OTHER MEDICINES.

THE WHOLE ADAPTED TO

PHYSICIANS AND PHARMACEUTISTS.

BY

R. EGLESFELD GRIFFITH, M.D.

THIRD EDITION,

CAREFULLY REVISED AND MUCH ENLARGED,

BY

JOHN M. MAISCH, PHAR.D.,

PROFESSOR OF MATERIA MEDICA AND BOTANY IN THE PHILADELPHIA COLLEGE OF PHARMACY.

WITH ILLUSTRATIONS.

Selecta sunt quæ medicum nobilitant.-LINNÆUS.



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TO

GEORGE B. WOOD, M.D.,

AND

FRANKLIN BACHE, M.D.,

AUTHORS OF

"THE DISPENSATORY OF THE UNITED STATES OF AMERICA,"

This Mork

IS RESPECTFULLY DEDICATED,
BY THEIR FRIEND

R. E. G.

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PREFACE TO THE THIRD EDITION.

In preparing this new Edition, the editor has endeavored to adhere as closely as possible to the plan of the work as adopted by its author, and by its former editor, the late Professor Robert P. Thomas. The consolidation of the London, Edinburgh, and Dublin Pharmacopæias into the present British Pharmacopæia rendered a careful revision of the formulas of the former three authorities necessary. Those only have been retained in the present edition, which were not superseded by formulas of the new official standard for Great Britain, and still appeared to possess sufficient interest and merit. Precisely the same course has been adopted with regard to the formulas derived from the old pharmacopæias of the German principalities which have been superseded by the Pharmacopæia Germanica recently issued. For all the important preparations, it was deemed advisable to give as briefly as possible their relative strength as adopted by the latest pharmacopæias of the United States, Great Britain, France, and Germany. The formulas selected from the last-named two works are given in the original in parts by weight, and this feature has been retained in all cases where the proportions are simple, such as can be easily followed with the weights in use in this country; all the more complicated formulas, however, have been calculated into the weights and measures of the United States.

The numerous improvements in manipulations and processes have been carefully noted, and the new remedies of acknowledged merit and importance duly noticed, while quite a number of antiquated formulas have been dismissed from the present edition. Notwithstanding this, the increase in the formulary alone amounts to considerably more than one hundred pages; and in order to not increase the work beyond proper limits, the plan has been adopted to state the forms in which many remedies are best

exhibited in extemporaneous preparations, instead of copying prescriptions adapted to special cases.

The alterations and additions to other parts of the work will be readily noticed, though they are not specially marked.

The editor hopes that the labor bestowed upon this edition may render the work as useful for the present wants of the physician and pharmaceutist as the previous editions have proved themselves.

PHILADELPHIA, December, 1873.

PREFACE TO THE FIRST EDITION.

The design of this work is to present a compendious collection of formulæ and pharmaceutic processes, with such additional information as may render it useful to the physician and apothecary; and the principal aim has been to select materials most generally applicable, and of practical utility. The sources from which they have been derived are very numerous, as will be seen by a reference to the various authorities cited.

The introduction contains tables and observations on the weights and measures employed for pharmaceutical purposes in the United States and in foreign countries, and an explanation or vocabulary of the principal abbreviations and Latin terms used by physicians in writing prescriptions, followed by observations on the management of the sick-room, with rules for the administration of the different classes of medicines.

The formulary is arranged alphabetically, according to the pharmaceutic names adopted in the United States Pharmacopæia; but in each formula, the English appellations for the articles composing it are used, and the quantities of these ingredients are expressed in words, and not in the usual pharmaceutic signs.

These innovations may, and probably will, be objected to by many; but we feel convinced that a change has become requisite, and that fewer mistakes would be committed by physicians in writing prescriptions, both in the names of the ingredients and in the quantities, were they given at length, and in common language, instead of in the abbreviated cabalistic terms now used. In France this change has been made, and it is full time that other countries should follow her example.

In this portion of the work, the compiler has derived much important assistance from several of his friends, and is under great obligation to Mr.

Wm. Procter, Jr., for numerous formulæ and many useful suggestions. He, also, is much indebted to Dr. Robert Bridges for his attentive revision of the sheets, as well as for some important corrections.

The various tables which follow, it is hoped, will add to the value of the work. The observations and directions on officinal preparations are given in as concise a form as possible; and are, for the most part, condensed from the excellent edition of *Mohr and Redwood's Pharmacy*, as edited by Mr. Wm. Procter, Jr. To this is added a short view of the action of poisons, with the best means of obviating their effects.

To facilitate a reference to the contents of the work, copious indices have been added, not only of the formulæ, but of the diseases for which they have been advised.

In the botanical portion, the author has been obliged to cite, in almost every instance, his "Medical Botany." This has arisen from the fact, that no other work of a general character on medicinal plants has been issued from the American press.

PHILADELPHIA, March, 1850.

TABLE OF CONTENTS.

PREFACES		PAGE . 5, 7
INTRODUCTION	mirami	
WEIGHTS AND MEASURES		
Weights of the United States and Great Britain		
Foreign weights		
Relation of weights of the U.S. Pharmacopæia to metrical weights		. 25
Measures		
Specific Gravity		. 31
Temperatures for certain Pharmaceutical Operations	rational and	. 39
Hydrometrical Equivalents		. 40
Specific Gravities of some of the Preparations of the Pharmacop	ŒIAS	. 44
RELATION BETWEEN THE DIFFERENT THERMOMETRICAL SCALES		. 46
EXPLANATION OF PRINCIPAL ABBREVIATIONS USED IN FORMULE		
Vocabulary of Words employed in Prescriptions		
Observations on the Management of the Sick Room		
		. 60
Ventilation of the Sick Room	THIOT	. 60
Cleanliness of the Sick Room	90 8	
Quiet in the Sick Room	5 11 1	. 62
Examination and Preservation of the Excretions	A. C. A.	00
Administration of Medicine	11.210	
Proper use of Utensils for Evacuations		. 65
Doses of Medicines		
Age		. 66
Sex	100	. 66
Temperament	1000	. 67
Idiosyncrasy	a Deliver	. 67
Habit		. 67
Time of Day		. 68
Intervals between Doses		. 68

														PAGE
I	CULES FOR ADM	INISTRAT	TION OF	ME	DICINE	S								69
	Acids .													69
	Antacids													70
	Antilithics an	d Litho	ntripti	cs										70
	Antispasmodi													70
	Anthelmintics	s .												71
	Cathartics													71
	Enemata									14.1				72
	Suppositori	es .												73
	Demulcents, o	or Emoll	ients											73
	Diaphoretics													74
	Diluents													74
	Diuretics													74
	Emetics													74
	Emmenagogu	es .	::											75
	Epispastics											1		75
	Errhines									11				77
	Escharotics													77
	Expectorants													78
	Narcotics				-									78
	Refrigerants										. 1		,	79
	Sedatives													79
	Sialagogues													79
	Stimulants													80
	Tonics .							:		70.00		.000		80
7	IANAGEMENT OF	CONVA	POCEN	CP A	vn Rr	PLAPS	202							80
-	LANAGEMENT OF	CONVA	LESUEN	UL A.	ND IEE	JUAL.	3120							00
FO	RMULARY													83
TITI	ETETIC PRE	DADA	TITON	CI NT	om 1	NO	LUDI	ZD /	MC	MC	THE	PRE	,	
	TOUS PRES				01 1	INC.	горі	ב עני	rmc	ING	THE	PRE	-	207
,	1005 FRES	CRIFI	IONS											607
LIS	T OF INCO	MPATI	BLES							TISSE I	0.00	TATA		612
						~~~								
PO	SOLOGICAL	TABL	E OF	TH	E M	OST	IMP	ORT	AN	T ME	EDICI	NES		617
TA	BLE OF PH	ARMA	CEUT	TCA	LN	ME	s w	HIC	H D	TEFF	R. IN	THI	E.	
		ATES,												
	HARMACOH					,							•	625
				•		•				- 100	- Band	1 3	•	020
OF	FICINAL PI	REPAR	ATIO	NS .	AND	DII	RECT	MOL	S	19				639
Т	NTERNAL REME													.020
1		DIES												639
	Powders													639
	Simple Pow													639
	Compound													639
	Precipitatio													640
	Elutriation													640
	Granulation													640
	Pills and Bolt	uses												
	Extuncts													C 4 4
	Extracts Confections, (	· ·	· Telle											644 646

8	•
Α.	
-	~

## TABLE OF CONTENTS.

												PAGE
	Pulps											646
	Syrups											646
	Mellites, or Honeys .									of the last		647
	Infusions								-			647
	Decoctions											648
	Tinctures											648
	Maceration					1 (17/)		ga, Ni		11.0		648
						1.						649
	Fluid Extracts by Repercola					Z						653
	Wines							9131				654
	Vinegars											654
	Mixtures											654
												656
												659
	Distilled, Essential, or Volat					•						
	Fixed Oils and Fats .											665
	Alkaloids											665
	Spirits		20									666
	Troches, or Lozenges .											666
	Inhalations											667
F	XTERNAL REMEDIES											667
_	Baths											667
	Cold Bath											667
	~											668
												668
	Temperate Bath .											668
	Tepid Bath											
	Warm Bath											668
	Hot Bath					100						669
	Shower Bath											669
	Local Baths											670
	Vapor Bath											670
	Warm Air Bath .											670
	Douches											670
	Medicated Baths .											671
	Affusion											671
	Sponging											672
	Fomentations											673
	Cataplasms, or Poultices		8		-	240						674
	Lotions, Liniments, Embroca	ation										675
	Vesicatories, or Blisters	te eron.								MINE .		676
	Issues			•					•			676
	Setons											676
	0:1											677
		-										
	Cerates											677
	Plasters											678
	Suppositories											679
	Fumigations											680
F	SLOOD-LETTING											681
	General Blood-letting .				1		3733				1	682
	Venesection					1000	370	1		501		682
	Arteriotomy	100		Tio.				100		1		684
	and the state of t											JUX

											1	PAGE
Topical Blood-let	ting									. 11		684
Cupping .												
Leeching .												685
Scarifications											110	686
POISONS				1.					. "			687
INDEX OF DISEA	SES A	ND	THEI	R RH	EMED	IES			grille	1000	L.	705
INDEX OF PHAR	MACE	UTI	CAL	AND	вот.	ANIC	CAL	NA	MES	110	U.	727
GENERAL INDEX											HW.	733

# A UNIVERSAL FORMULARY.

## INTRODUCTION.

Before entering upon the main object of the work, some introductory observations are required, on the forms in which remedial substances are administered, the processes to be pursued in their preparation, and on the weights and measures employed in the proper apportionment of the ingredients, and in the regulation of the doses to be administered.

#### WEIGHTS AND MEASURES.

These vary much in different countries, and even in the same country. Thus, in Great Britain and the United States, there are three standards of weight recognized and employed: the Avoirdupois, the Troy, and the Apothecaries'.

#### WEIGHTS OF THE UNITED STATES AND GREAT BRITAIN.

#### A VOIRDUPOIS WEIGHT.

This is the common standard employed in the selling or buying of such articles as are measured by weight, and is also in use among apothecaries in this country, except in the compounding and dispensing of medicines.

	Equal to troy grains.
1 drachm	27.34375
16 = 1 ounce	
256 = 16 = 1 pound	7000.
3584 = 224 = 14 = 1 stone	
28672 = 1792 = 112 = 8 = 1 hundred weig	ht 784000.
$473440 = 35840 = 2240 = 160 = 20 = 1 \text{ ton } \dots$	

In weighing many articles, what is called the short ton, or 2000 pounds, is employed.

#### TROY WEIGHT

Is used in the sale of gold, silver, platina, and precious stones.

1 grain 24 = 1 pennyweight 480 = 20 = 1 ounce

5760 = 240 = 12 = 1 pound.

The following are the relative proportions between the troy and the avoirdupois :-

One pound troy is equivalent to 0.822857 pound avoirdupois, or 13 ounces,

2 drachms, 1 scruple, 8.7 grains. [13 ounces, 72.5 grains.]
One ounce troy is equivalent to 1 ounce, 1 drachm, 1 scruple, 6.225 grains avoirdupois.

(17)

One pound avoirdupois is equivalent to 1.215277 pound troy, or 1 pound, 2 ounces, 4 drachms, and 2 scruples.

One ounce avoirdupois is equivalent to 7 drachms, 17.5 grains troy.

144 pounds avoirdupois are equivalent to 175 pounds troy. 175 ounces troy are equivalent to 192 ounces avoirdupois.

The following table of equivalents in troy and avoirdupois weight, derived from Redwood's edition of Gray's Supplement to the Pharmacopæia, will be found useful in making these calculations.

EQUIVALENTS IN TROY AND AVOIRDUPOIS WEIGHT.

Troy grains.			TROY.		Avoirdupois.					
Troy grains.	lbs.	oz.	drs.	grs.	lbs.	oz.	grs.			
60		-	1		-		60			
120			2		1	The state of the s	120			
240		-	2 4		THE PERSON NAMED IN	- 11	240			
437.5	A CONTRACTOR OF THE PARTY OF TH		7	17.5	- married	1				
480	Wild British	1	KE REED	11.0	1 DON'S	î	42.5			
875	Mail Park	1 1	6	35	1000					
960		2	0	30	a cain an	2 2 3 3	85			
1312.5	in the second	9	5	52.5		2 2	00			
		3 3	0	32.3	Law !	0	127.5			
1440	- N	9	5	10	20 20 2	3	121.0			
1750			9	10		4	150			
1920	11113	4		0==	Printer and the second	4	170			
2187.5	807 F	4	4	27.5	P. PER	5	010 =			
2400		5				5	212.5			
2625.0		5	3	45	A Common de la com	6				
2880		6				6	255			
3062.5		6 .	3	2.5		7				
3360		7			115 200	7	297.5			
3500		7	2	20		8				
3840		6 · 7 · 7 · 8 · 8				7 7 8 8	340			
3937.5		8	1	37.5		9				
4320		9	1			9	382.5			
4375	100	9	0	55	- 1 - 1 - 1	10				
4800	1000	10	11		1. Monthly	10	425			
4812.5	100	10		12.5		11				
5250	2.5	10	7	30	1	12				
5280	180	11	Mari I	1 1 1 1 1 1	111	12 .	30			
5687.5	1	11	6	47.5	1000	13				
5760	1	2000 0		100 100 100 100	Internal	13	72.5			
6125	1	0	6	5		14	100000			
6562.5	Î	i	5	22.5		15				
7000			4	40	1	10				
7680	1 1	2 4	-	10	1	1	242.5			
9600	i	8			1	5	422.5			
10500	1	8 9	7	The second	1	1 5 8	422.0			
11520	9	0	1		1	10	145			
	0	5	1	20		10	140			
14000	1 1 2 2 3 3	9	1	20	2 2 3	-	217.5			
17280	0	h	0		2	7	211.0			
21000	3	7	6	0	3	1	000			
23040	4	10		10	3	4	290			
28000	4	10	2	40	4		000 -			
28800	5	THE RESERVE		THE RESERVE OF THE PARTY OF THE	4	1	362.5			

Troy grains.			TROY.	Avoirdupois.				
Troy grains.	lbs.	oz.	drs.	grs.	lbs.	oz.	grs.	
34560	6		uby	2211	4	14	435	
35000	6	0	7	20	5			
40320					5	12	70	
42000	7 7	3	4	0	6			
46080	8		10	1 1	6	9	142.5	
49000	8	6	0	40	7	100		
51840	9		0		7	6	215	
56000	9	8	5	20	8			
57600	10				8	3	287.5	
63000	10	11	2	0	9			
63360	11				9	0	360	
69120	12		0	0 .	9	13	432.5	
70000	12	1	6	40	10			
74880	13		1112		10	11	67.5	
77000	13	4	3	20	11			
80640	14				11	8	140	
84000	14	7	0	0	12			
86400	15		0	1	12	5	212.5	
91000	15	9	4	40	13		Marie III	
92160	16		1.	2	13	2	285	
97920	17	19 6 8		11.2.1	13	15	357.5	
98000	17	0	1	20	14		00110	
103680	18		-	-	14	12	430	
105000	18	2	6	0	15		100	
109440	19				15	10	65	
112000	19	5	2	40	16			
115200	20	The second			16	7	137.5	
119000	20	7	7	20	17			
120960	21				17	4	210	
126000	21	10	4	0	18			
126720	22	-			18	1	282.5	
132480	23		1		18	14	355	
133000	23	1	0	40	19		000	
138240	24	1		10	19	11	427.5	
140000	24	3	5	20	20		1-1.0	
144000	25		"	20	20	9	62.5	
147000	25	6	2	0	21	W. 10.1	02.0	
149760	26		-		21	6	135	
154000	26	8	6	40	22		100	
155520	27			10	22	3	207.5	
161000	27	11	3	20	23		201.0	
161280	28				23	0	280	
167040	29			and and	23	13	352.5	
168000	29	2	0	0	24	-	002.0	
172800	30	-			24	10	425	
175000	30	4	4	40	25		120	
178560	31	-	1	10	25	8	59	
182000	31	7	1	20	26		00	
184320	32		1	20	26	5	131.5	
189000	32	9	6	0	27		101.0	
190080	33	9	0		27	2	204	
195840	34	17.55	The state of	TO DO NOT HOLD	27	15	276.5	

Troy grains.			TROY.	News		Avoirdupois.					
Troy grains.	lbs.	oz.	drs.	grs.	lbs.	oz.	grs.				
196000	34	0	2	40	28		and the				
201600	35		100		28	12	149				
203000	35	2	7	20	29						
207360	36		9		29	9	421.5				
210000	36	5	4	0	30						
230400	40		103		32	14	275				
280000	48	7	2	40	40						
288000	50	1.00	000	0 *	41	5	125				
345600	60				49	5	412.5				
350000	60	9	1	20	50	The state of					
403200	70				57	9	262.5				
420000	72	11	0	0	60						
460800	80		0100		65	13	113				
490000	85	0	6	40	70						
518400	90		000		74	0	400.5				
560000	97	2	5	20	80						
576000	100		0		82	4	250.5				
630000	109	4	4	0	90						
645120	112		D.		92	2	245				
700000	121	6	2	40	100						
784000	136	1	2	40	112						

When applied to the compounding or dispensing of medicines, this standard of weight is known as Apothecaries' weight, and differs from the last in the subdivision of the ounce, viz.:—

#### APOTHECARIES' WEIGHT.

To designate these divisions, the following marks are generally used in prescriptions; a grain, gr.; a scruple,  $\mathfrak{Z}$ ; a drachm,  $\mathfrak{Z}$ ; an ounce,  $\mathfrak{Z}$ ; a pound,  $\mathfrak{Z}$ .

Since the edition of 1860 the United States Pharmacopæia designates all weights in troyounces and grains; this was deemed necessary on account of the greater simplicity of this method, and in order to avoid confusion when comparing the preparations of this authority with the various pharmacopæias at that time in use in Great Britain, as will be seen from the following table of the

#### DUBLIN WEIGHTS,

Adopted by the Dublin College in the edition of their Pharmacopæia for 1850:—

$$1 \text{ grain}$$
 $18.22 = 1 \text{ scruple}$ 
 $54.68 = 3 = 1 \text{ drachm}$ 
 $437.5 = 24 = 8 = 1 \text{ ounce}$ 
 $7000. = 384 = 128 = 16 = 1 \text{ pound.}$ 

In 1864 the first British Pharmacopæia was published under the direction of the "General Council of Medical Education and Registration of the United

1

Kingdom;" this, and the later edition of 1867, superseded the pharmacopæias of the London, Edinburgh, and Dublin Colleges, by virtue of parliamentary enactments of 1858 and subsequently, establishing the complete uniformity of medicinal weights throughout Great Britain. They are as follows:—

 $\begin{array}{r}
1 \text{ grain} \\
437.5 = 1 \text{ ounce} \\
7000. = 16 = 1 \text{ pound.}
\end{array}$ 

Physicians in the United States and in Great Britain continue to use the symbols  $\mathfrak{Z}$  and  $\mathfrak{Z}$ , which, in both countries, represent, the former 20, and the latter 60 grains.

#### FOREIGN WEIGHTS.

France.—Anterior to the French Revolution of 1789, the scale of weight used was the *poids de marc*, the unit of which was the pound of Charlemagne, which was equivalent to 7561 troy grains, and was divided as follows:—

POIDS DE MARC

					88	٠,	•	-	-	-	•	-	•	**	*	-	•						The state of the s
																					Troy grains.		Grammes.
																				==	0.8203	=	3.053
																				=	19.687	=	1.274
																				=	59.070	=	3.824
(	)1	10	ee																	=	472.542	=	30.594
		4																			0500 500		OLLEFO

576 = 24 = 8 = 1 once... = 472.542 = 30.594 4608 = 192 = 64 = 8 = 1 mare... = 3780.500 = 244.7536912 = 288 = 96 = 12 = 1 livre medicinal... = 5670.750 = 367.129

9216 = 384 = 128 = 16 = 1 livre marchand or poid

de marc..... = 7561.000 = 489.505

When the decimal system was introduced by the National Assembly, a new series of measures was adopted, termed the metrical, in which the metre, or the ten-millionth part of a quarter of the meridian of the earth, is taken as the unit; this is divided into ten parts, each of which is called a decimetre, which in turn is divided into ten centimetres. A cubic decimetre is assumed as the unit of measures of capacity, and termed a litre. The unit of weight is called a gramme, and is a cubic centimetre of distilled water at 39.5 Fahr.

#### METRICAL WEIGHT.

	Troy grains.
1 milligramme =	.015434
10= 1 centigramme=	.15434
100= 10= 1 decigramme	1.5434
1000 = 100 = 10 = 1 gramme	15.434
10000 = 1000 = 100 = 10 = 1 decagramme=	
100000 = 10000 = 1000 = 100 = 10 = 1 hectogramme =	1543.4
1000000 = 100000 = 10000 = 1000 = 100 = 10 = 1  kilogram. = 1	5434.

This system of weights, although adopted by the scientific men of France, was not favorably received by the people generally, who obstinately adhered to the old system of the poids de marc; and, although many stringent laws were passed, from time to time, to render the metrical system obligatory, the government in 1812 was forced to make an attempt to amalgamate the two systems, by altering the livre, and making it equal to half a kilogramme, assuming this as the unit, and calculating the other divisions from it, according to the old nomenclature. The following table shows the equivalent of the two scales and of avoirdupois:—

#### FRENCH WEIGHTS OF 1812.

French weight	8 N	Ietrical weigh	it,		English avoirdupois.						
of 1812.		grammes.		lb.	oz.	dr.	grains.				
1 livre	==	500	=	1	1	10	6.06				
1/2 "	=	250	=		8	13	3.03				
½ " 2 once	==	125	=		4	6	15.19				
2 once	=	62.5	-		2	3	7.60				
1 "	=	31.25	=		1	. 1	17.47				
$\frac{1}{2}$ " $\frac{1}{2}$ gros	=	15.625	=			8	22.40				
2 gros	=	7.812	=			4	11.20				
1 "	=	3.906	=			2	5.60				
1 crain	=	1.9531	=			1	2.80				
1 grain	=	0.0542	=				0.837				

The adoption of this system was not made obligatory upon the pharmaciens by law until the year 1827; and indeed it appears never to have been generally adopted, the greatest confusion having prevailed with regard to the weights and measures used in the preparation of medicine, as well as in commerce generally, up to the year 1840. In July, 1837, a law was passed which definitely abolished the use of all other weights and measures, excepting those of the metrical or decimal system, from and after August, 1840. The METRICAL WEIGHT, therefore, is now the only one permitted to be used throughout France.

The exact proportion of troy weight to the metrical standard has never been fully and exactly ascertained. In the table previously given, the kilogramme has been considered as equivalent to 15434 grains troy, which is the usual estimate of it. Francœur, however, estimates the pound troy as equal to 392.9986 grammes; Matthieu, Legendre, and Duborg, as equal to 373.0956 grammes; Chelius and Houschild to 373.243 grammes. But the most correct estimation appears to be that of Lochman, who considers 9216 grains poid de marc as equivalent to 7555 grains troy; the pound troy as equal to 7026.320 grains marc and the kilogramme as equal to 15434 grains troy. The subjoined tables are calculated on this estimation:—

#### VALUE OF TROY WEIGHT IN METRICAL WEIGHT.

One pound	=373.202	grammes.
One ounce	= 31.10017	"
One drachm	= 3.887521	"
One scruple	= 1.295840	"
One grain	= 0.0647920	1 "

#### VALUE OF TROY WEIGHT IN MARC WEIGHT.

One pound	=	12 ounces,	1 gros,	42.32	grains.
One ounce	=	1 once	ni (f) Malaine	9.53	"
One drachm	=		1 "	1.19	"
One scruple	=			24.40	"
One grain	=			1.22	"

The other European states used to differ greatly in their medicinal weights, both from the troy standard and among themselves; this difference, however, is rapidly disappearing, partly in consequence of the consolidation of the small European principalities into larger states, like Italy and Germany,

¹ By examination at the English mint the gramme is determined to be 15.434 troy grains. The Bureau of Hydrography in Washington has more recently determined it to be 15.4322, which makes twelve troy ounces = 373.246 grammes. In the above and the subsequent tables we follow the U. S. Pharmacopæia, which gives the value as ascertained by the English weighings. The British Pharmacopæia gives the weight of 1 gramme = 15.432 grains, and of 1 kilogramme = 15432.348 grains.

but chiefly because the French metrical weight has been adopted or its adoption is contemplated in nearly all the states of continental Europe. Besides in France, it is in use, by virtue of legal enactments, in Belgium, Germany, Austria, Hungary, and Switzerland, and its employment is permitted in the adjoining states.

The following synopsis and table will be sufficient to show the variations as they existed about the year 1860; aside from their historical interest, they will serve the important purpose of aiding in readily converting the

weights of old formulas into troy weights.

1. The medicinal pound, except in Dublin and Turkey, and by the old poids de marc, was in all of them divided into 12 ounces.

2. In all of them the ounce was divided into 8 drachms, except in Naples,

where it contained 10.

3. In all, the drachm was divided into 3 scruples.

4. But the value of the scruple differed. It was composed of 24 grains at Bologna, Coni, Lucca, Modena, Parma, Rome, and in Spain, France, Portugal, Tuscany, and Sardinia;

Of 20 grains in Great Britain (excepting Dublin, where it was 18.22 grains), the United States, Austria, Bavaria, Holland, Poland, Prussia, and

Sweden; at Lubeck, Naples, Nuremberg, and Venice;

5. Consequently the pound consisted of

5760 grains in the United States, Great Britain, Austria, Bavaria, Holland, Poland, Prussia, and Sweden; at Lubeck, Nuremberg, and Venice;

6400 grains in Turkey;

6912 grains in Spain, Portugal, Tuscany, Sardinia, Bologna, Lucca, Modena, Parma, Rome, and Coni;

7000 grains in Dublin; 7200 grains at Naples;

9216 grains in France by the poids de marc.

The subjoined table shows the differential values between the troy weight and the medicinal weights of the countries of Europe, calculated in grains:—

COUNTRIES, ETC.	Value of the pound, 5760 grains.	Value of the ounce, 480 grains.	Value of the drachm, 60 grains.	Value of the scruple, 20 grains.	Value of the grain.
Austria ¹	5118.09	426.51	53.31	17.77	0.89
Bavaria2	5971.23	497.60	62.20	20.73	1.04
Bologna	7920.93	660.08	82.51	27.50	1.38
Coni	8392.40	699.37	87.42	29.14	1.46
Corte	7807.42	650.62	81.33	27.11	1.36
Holland ³	5732.38	477.70	59.71	19.90	1.00
Lubeck	5823.60	485.30	60.66	20.22	1.01
Lucca	7711.73	642.64	80.33	26.78	1.34
Modena	7576.80	631.40	78.92	26.31	1.32
Monticelli4	8334.64	694.55	86.82	28.94	1.45
Naples ⁵	8377.11	698.09	87.26	29.09	1.46
Nuremberg ⁶	6007.22	500.60	62.58	20.86	1.04

¹ This weight was used in Austria Proper, Bohemia, Moravia, Hungary, Transylvania, Tyrol, and the Lombardo-Venetian kingdom, with the exception of the city of Venice.

² This weight has been adopted in Greece.

Kingdom of the Two Sicilies.

This weight has been adopted in Greece.
 This weight was also used in Belgium.
 Monticelli, Castelvetro, and Polesine.

⁶ After the incorporation of Nuremberg in the kingdom of Bavaria, the Bavarian standard was used in that city. But the Nuremberg weight was still extensively used in Germany, and is yet employed in other countries. In Germany, we found it in the

COUNTRIES, ETC.	Value of the pound, 5760 grains.	Value of the ounce, 480 grains.	Value of the drachm, 60 grains.	Value of the scruple, 20 grains.	Value of the grain.
Parma ¹	7864.55	655.38	81.92	27.31	1.37
Piacenza ²	8124.20	677.02	84.63	28.21	1.41
Poland	5996.04	499.67	62.46	20.82	1.04
Portugal	7494.62	624.55	78.07	26.02	1.30
Prussia3	6128.12	510.68	63.83	21.28	1.06
Rome	7607.72	633.98	79.25	26.42	1.32
Spain	7475.46	622.96	77.87	25.96	1.30
Sweden	6034.48	502.87	62.86	20.95	1.05
Turin	7770.71	647.56	80.94	26.98	1.35
Turkey	7436.78	619.73	77.47	25.82	1.29
Tuscany	7597.21	633.10	79.14	26.38	1.32
Venice	7136.23	594.69	74.34	24.78	1.24

duchies of Saxe-Altenburg and of Anhalt Bernburg; grand duchy of Baden; city of Bremen; duchies of Brunswick, Saxe Meiningen, and Saxe Coburg Gotha; cities of Frankfort-on-the-Maine and Hamburg; kingdom of Hanover; electorate of Hesse, grand duchy of Hesse, landgraviate of Hesse Homburg; principality of Hohenzollern Sigmaringen; duchy of Nassau; grand duchy of Oldenburg; principalities of Reuss-Plauen and Reuss-Schleitz, of Schwartzburg-Rudolstadt, and Schwartzburg-Sonderhausen; duchy of Seswick-Holstein; principality of Waldeck; grand duchy of Saxe-Weiners, and bingdom of Wistomberg. Weimar; and kingdom of Wirtemberg.

The Nuremberg standard was also adopted in Denmark, Norway, Finland, Russia,

and Switzerland.

Parma, Borgo San-Dannino, Pellegrino, San-Secondo, Fontanellato, and Bussetto.
Piacenza, Fiorenzola, and Carpaneta.

² This standard had been adopted in the kingdom of Saxony, the principalities of Lippe-Detmold and Lippe-Schaumburg, and the duchy of Anhalt-Dessau. It differs so little from those of Anhalt-Coethen and the grand duchies of Mecklenburg-Schwerin and Mecklenburg-Strelitz that the former standard of these three territories may be considered identical with that of Prussia.

This table needs hardly any explanation: it will enable the pharmaceutist-in all cases of foreign formulæ—to calculate the foreign weight in troy weight; thus, e. g., one grain troy being equal to 0.89 grain of Austria, the value of one grain Austrian weight in troy weight may be readily ascertained by a simple rule-of-three example :-

$$0.89:1::1 \\ 1 \times 1 = \times 1 = 0.100 \\ 0.89)0.100(1.1235 \\ \underline{89} \\ \hline 110 \\ \underline{89} \\ \hline 210 \\ \underline{178} \\ \hline \underline{320} \\ \underline{267} \\ \hline \underline{530} \\ \underline{445} \\ \hline \underline{65}$$

The value of these various pounds in grammes is thus calculated by Jourdain:—

Grammes.	Grammes.
The pound of 5760 grains.	Piacenza = 317.577
Venice = 301.230	Bologna = 325.665
Prussia = 350.761	Soragna = 325.800
Sweden = 356.227	Parma = 328.000
Nuremberg = 357.843	Corte = 330.400
Poland = 358.510	Turin, = 331.961
Bavaria = 360.000	Lucca = 334.500
Lubeck = 369.126	Rome = 339.073
United States and Great = 373.202	Tuscany = 339.542
Britain = 313.202	Modena = 340.457
Holland = 375.000	Portugal = 344.190
Austria = 420.009	Spain = 345.072
The pound of 6400 grains.	The pound of 7200 grains.
Turkey = 321.317	Naples = 320.230
The pound of 6912 grains.	The pound of 9216 grains.
Coni = 307.370	France = 489.503
Monticelli = 307.370	

The following tables are taken, slightly modified, from the United States Pharmacopæia; they will be found useful for converting the apothecaries' and metrical weights one into the other.

RELATION OF WEIGHTS OF THE U.S. PHARMACOPŒIA TO METRICAL WEIGHTS.

Grain. Milligrammes.	Grains. Grammes.	Apothecaries' w't. Grammes.
$\frac{1}{64} = 1.012$	i = 0.0648	3i = 3.887
$\frac{1}{60} = 1.079$	ij = 0.1295	3ij = 7.775
$\frac{1}{50} = 1.295$	iij = 0.1943	3iij = 11.663
$\frac{1}{48} = 1.349$	iv = 0.2591	3iv = 15.550
$\frac{1}{40} = 1.619$	v = 0.3239	3v = 19.438
$\frac{1}{36} = 1.799$	vi = 0.3887	3vi = 23.325
$\frac{1}{32} = 2.025$	vij = 0.4535	3vij = 27.213
$\frac{1}{30} = 2.159$	viij = 0.5183	3i = 31.100
$\frac{1}{25} = 2.591$	ix = 0.5831	3ij = 62.200
$\frac{\frac{2}{1}}{\frac{1}{24}} = 2.699$	x = 0.6479	3iij = 93.300
$\frac{1}{20} = 3.239$	xij = 0.7775	3iv = 124.401
- 0	xy = 0.9718	3v = 155.501
10	xvi = 1.036	3vi = 186.601
7 5000	xviij = 1.166	3 vij = 217.701
$\frac{1}{12} = 0.399$ $\frac{1}{12} = 6.479$	xx = 1.295	3 vij = 248.801
$\frac{10}{10} = 0.413$	xxiv = 1.555	3ix = 279.902
$\frac{1}{8} = 0.098$ $\frac{1}{6} = 10.798$	xxv = 1.619	31x = 213.302 $3x = 311.002$
6 = 10.198	The state of the s	
$\frac{1}{6} = 12.958$	xxx = 1.943	
$ \begin{array}{r} 1_{10} = 6.479 \\ \frac{1}{8} = 8.098 \\ \frac{1}{6} = 10.798 \\ \frac{1}{6} = 12.958 \\ \frac{1}{4} = 16.197 \\ \frac{1}{3} = 21.597 \\ \frac{1}{2} = 32.395 \end{array} $	xl = 2.591	fbi = 373.202
$\frac{1}{3} = 21.597$	1 = 3.239	fbij = 746.404
$\frac{1}{2} = 32.395$	lx = 3.887	Hiij = 1119.606

RELATION OF METRICAL WEIGHTS TO WEIGHTS OF THE U. S. PHARMACOPŒIA.

Grammes.	Exact equivalent in grains.	Approximate equivalent in grains.	Grammes.	Exact equivalent in grains.	Approximate equivalent in troy weight.
0.001	.0154	1 65	1	15.434	gr. xv
0.002	.0308	3 2	2	30.868	3ss
0.003	.0463	1 2 2	2 3	46.302	Эij
0.004	.0617	1 16 13 17 18 17 16 13 17 16 13 17 16 13 17 16 13 17 16 17 16 17 16 17 18 17 18 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	4	61.736	3i
0.005	.0771	13	5	77.170	Эiv
0.006	.0926	TT I	6	92.604	3iss
0.007	.1080	1 9	7	108.038	Эvss
0.008	.1234	1 8	8	123.472	3ij
0.009	.1389	1 7	9	138.906	Эvij
0.01	.1543	<u>i</u>	10	154.340	3ijss
0.02	.3086	1 3	20	308.680	3v
0.03	.4630	13	30	463.020	3vij Đij
0.04	.6173	77	40	617.360	Зх Эi
0.05	.7717	3 4	50	771.701	3xiij
0.06	.9260	9	60	926.041	3xvss
0.07	1.0803	i	70	1080.381	3xviij
0.08	1.2347	11/4	80	1234.721	3xxss
0.09	1.3890	$ \begin{array}{c c} 1\frac{1}{4} \\ 1\frac{1}{3} \\ 1\frac{1}{2} \\ 3 \end{array} $	90	1389.062	3xxiij
0.1	1.543	1 1	100	1543.402	Зііј Эv
0.2	3.086	3	200	3086.804	3vi 3iij
0.3	4.630	$4\frac{1}{2}$	300	4630.206	3ix 3v
0.4	6.173	6	400	6173.609	lbi 3vij
0.5	7.717	$7\frac{1}{2}$	500	7717.011	lbi Ziv
0.6	9.260	9	600	9260.413	lbi zvij
0.7	10.803	11	700	10803.816	Ibi 3x 3i
0.8	12.347	121	800	12347.218	1bij 3i 3v
0.9	13.890	14	900	13890.620	fbij 3v
		The state of the	1000	15434.023	lbij Zviij

LIQUID MEASURES OF THE UNITED STATES AND GREAT BRITAIN.

The liquid measures employed by the apothecaries in the United States are the wine gallon and its subdivisions.

### Wine or Apothecaries' Measure. (Adopted in the United States Pharmacopæia.)

		inches. G	rains troy.
1 minim, m			0.95
60 = 1 fluidrachm, f. 3	= 0.	2256 =	56.96
480 = 8 = 1 fluidounce, f. 3			
$7680 = 128 = 16 = 1 \text{ pint}, 0 \dots$			
61440 = 1024 = 128 = 8 = 1 gallon, Cong.			

For a long time, the Royal Colleges of Physicians in England, Scotland, and Ireland declined to recognize the use of measures in preparing and dispensing medicines, on the ground that the varying densities of different fluids rendered it difficult to use one common measure for all without risk of serious errors. But as druggists and medical practitioners constantly employed measures, in defiance of the prohibition, and as the practice, besides being attended with great and obvious convenience, was found to be less fraught with danger than had been conceived, the London College in the first instance, and subsequently the other colleges also, recognized a system of measures of

their own, founded on the standard measures of the country. The same standard has been adopted by the British Pharmacopæia; its basis is the imperial pint of 1826, which is divided into twenty parts, called fluidounces; each of which corresponds exactly with an avoirdupois ounce of distilled water at 62° F. and 30° bar., and therefore contains 437.5 grains troy. The fluidounce is subdivided into eight parts of 54.6875 grains, termed fluidrachms; and each of these consists of sixty parts, called minims, which therefore amount each in weight to 0.91146 troy grain of distilled water.

#### IMPERIAL MEASURE.

(Adopted by the British Pharmacopæia.)

			0	rains troy.	Avoirdupois,
1 minim			=	0.91	
60 = 11	duidrachm		=	54.7	
480 = 8	" 1 fl	uidounce	=	437.5 ==	1 oz.
9600 = 160	"= 20	"=1 pin	t=	8750. ==	1.25 lb.
76800 = 1280	"=160	"=8"	= 1 gallon =	70000. =	10 lbs.

#### VALUE OF WINE OR APOTHECARIES' MEASURE IN IMPERIAL MEASURE.

Wine Measure,					Imperial Measure, Fluidounces, Fluidrachms, Minims																				
					P	int	s.		Fl	ui	do	un	ce	8.			F	ui	dr	acl	hn	ıs.		IN	linims.
1 gallon	=					6		 			1	3							2						23
1 pint																									
1 fluidounce																									
1 fluidrachm	=							 											1						2.5
1 minim	_																								1.04

#### VALUE OF IMPERIAL MEASURES IN WINE OR APOTHECARIES' MEASURE.

	Gallon.	Pints.	Fluidounces.	Fluidrachms.	Minims.
1 gallon	1	1	9	5	. 8
1 pint					
1 fluidounce					
1 fluidrachm					. 58
1 minim					0.9

None of the pharmacopæias of continental Europe permit the use of measures either in making preparations or in compounding prescriptions; those which have been recently issued give, like the French Codex, all quantities in parts, which invariably means parts by weight. This has been adhered to in this Formulary in all cases where these parts by weight could not conveniently be converted into weights and measures of the U.S. Pharmacopæia. The employment of weights to the entire exclusion of measures has, particularly in making chemical and pharmaceutical preparations, so many advantages over the use of measures, and is so much more accurate, that those who have become accustomed to their use will not abandon them in favor of the latter whenever the nature of the preparation or the officinal directions will permit. In France, where the relation between weight and measure is so very close (see page 21), water may be measured, if at or near the temperature of 40° F.

Besides these regular and authorized measures, there are others constantly used in the preparation and administration of medicines, which require notice. These, which have been adopted for convenience, are far from being uniform, but may be used without danger for ordinary purposes. Drs. Wood and Bache estimate the

Teacup	as containing	about	four fluidounces.
Wineglass	"	66	two fluidounces.
Tablespoon	66	66	a half a fluidounce.
Teaspoon	66	66	a fluidrachm.

Dr. Christison gives a somewhat different calculation; he considers a

Tumbler	to contain	eight fluidounces.
Breakfast cup	"	" "
Teacup	"	five fluidounces.
Wineglass	"	two fluidounces.
Tablespoon	"	half a fluidounce.
Dessertspoon	"	two fluidrachms.
Teaspoon	"	one fluidrachm.

In both these estimates, the teaspoon is rated too low; they apply very well to the teaspoon formerly used, but not to the much larger kind now in general use, which approaches the dessertspoon in capacity. Quart and pint bottles are also sometimes employed as measures of capacity for medical purposes; but they are very fallacious guides of quantity, as the so-called quart wine bottle never holds a quart, nor the misnamed pint wine bottle a pint. The first seldom holds more than twenty-six to twenty-seven fluid-ounces, and the latter from thirteen to fourteen.

It is still more common to estimate small quantities or doses of medicine by drops, as representing, and equivalent to, minims. This is so convenient, that it is not likely to be abandoned, though nothing can be more erroneous, as the size of the drop of the same fluid varies much with the form of the mouth of the bottle, its size, the mode in which the operation is performed, the temperature, and still more from the nature of the fluid thus attempted to be measured. Numerous experiments have been made on the subject, but can only be considered as approximate estimates, though sufficiently accurate for practical purposes.

Mr. Alsop, of London, some years since, published the result of some experiments made by him, which show the great variation to which this mode of measuring is liable. The following proves that the number of drops required to measure a fluidrachm are widely different when dropped from a large or a small bottle.

One fluidrachm.	Large bottle.	Small bottle.		
Diluted sulphuric acid	24 drops.	84 drops.		
Scheele's hydrocyanic acid		70 "		
Distilled water	31 "	54 "		
Solution of ammonia		48 "		
Tincture of opium	84 "	135 "		
Rectified spirit	100 "	130 "		
Tincture of chloride of iron		150 "		

Mr. Durand, of Philadelphia, in an able paper on the subject (Journal Phila. Col. of Pharm., vol. i. p. 165), says, "The bulk of drops depends not only on the density of the liquids which furnish them, and the cohesion of the constituent particles of that liquid, but also on the shape of the mouth of the vessel from which they are poured. An open vessel with a beak, such as the common graduated measure, affords a larger drop than a bottle with the stopper half drawn out; a mode commonly practised. That furnished by the dropping-tube is still smaller, and is ever liable to vary with the greater or lesser diameter of its extremity. Besides, in every instance, the first drops poured from any vessel are always smaller than those subsequently obtained."

He goes on to say that the following may be considered as established:—
1. That liquids which contain a small proportion of water afford a small drop; while, on the contrary, liquids containing a large quantity of water furnish a large drop. For instance, concentrated acids, ethers, rectified alcohol, fixed and essential oils, etc., which contain a very small proportion of water, yield a smaller drop than diluted acids, weak alcohol, wine, etc.

2. That, among liquids containing a large proportion of water, those which are not charged with remedial substances give a larger and heavier drop than those same liquids containing extraneous bodies in solution. Thus, weak alcohol, wine, vinegar, and water furnish a larger and heavier drop than the tinctures prepared from them.

The following table illustrates his remarks:-

#### TABLE

Showing the Difference between Minims, Drops, and Grains of various Medicinal Liquid Preparations of the Pharmacopæia of the United States, etc.

PREPARATIONS.	No. of drops in 20 minims.	No. of min. in 20 drops.	No. of drops in 20 grains	No. of grains in 20 drops.
Sulphuric acid	30	13.3	25	16
Sulphuric ether	50	8	60	6
Rectified alcohol	46	8.6	57	7.1
Nitric acid	28	14.2	22.2	18
Acetic acid (crystallizable)	40	10	40	10
Muriatic acid	18	22.2	18.1	22
Oil of wormseed (chenopod. anthelminticum)	40	10	50	8
of peppermint, anise, sweet almond, olive,				
palma christi	40	10	43.5	9
of cloves	40	10	36	11
of cinnamon	40	10	32	12.5
Copaiba	40	10	40	10
Diluted alcohol	40	10	42	9.5
Tincture of iodide of potassium, canthari-	Der ale	P MINISTER		P. Wolfe
des, kino, digitalis, assafetida, sul-	Name of the last	100	- Anglino	BT A.
phuric acid, colchicum, opium, vale-	40	10	43	9.3
rian, guaiacum	40	10	50	8
of valerian, guaiacum (volatile) of chloride of iron	44	9.1	50	8
Wine, Teneriffe	26	15.3	25	16
antimonial	24	16.6	26	15.3
of opium (Sydenham's laudanum)	26	15.3	29	13.7
of colchicum root and seeds	25	16	29	13.7
Vinegar, distilled	19	21	20	20
of opium (black drop))		I THE	1000110	The same
of colchicum	26	15.3	25	16
of squill	THE REAL PROPERTY.	I WILLIAM		
Water, distilled	15	26.6	17.5	24.5
solution of hydrocyanic acid	15	26.6	17.5	24.5
sulphuric acid (1 to 7)	17	23.5	17	23.5
nitrie " "	17	23.5	17	23.5
ammonia (strong)	18	22.2	18.5	22
" (weak)	15	26.6	20	20
iodide of potassium	18	22.2	20	20
arsenite of potassium	19	21	20	20

The only mode to obviate these discrepancies is for the physician to order the administration of small quantities of fluid medicines in minims, and not in drops, which would induce the use of a minim measure in every sick room.

#### FRENCH MEASURES OF CAPACITY-APOTHECARIES' MEASURE.

1 mi	llilitre or	cubic c	entimet	re		=	16.2318	minims.
10=	1 cer	ntilitre.				=	2.7053	fl. dr.
100=	10=	1 de	cilitre .			=	3.3816	fl. ounces.
1000=	100=	10=	1 liti	e		=	2.1135	pints.
10000=	1000=	100=	10=	1 deca	litre	=	2.6419	gallons.
					hectolitre.			
1000000=1	100000=1	0000=1	000 = 1	00 = 10	=1 kilolitr	e =	264.1900	"
Titron	Fra aubic	inahan	Imporio	1 ninte	Wine nints		Troy ounce	of water

Litres	. Eng	g. cubic inche	8.	Imperial pin	ts.	Wine pints	8.	Troy ounces of was	ter.
1	=	61.028	=	1.7608	=	2.1135	=	32.104	
2	=	122.056	=	3.5216	=	4.2270	=	64.208	
3	=	183.084	=	5.2822	=	6.3405	=	96.312	
4	=	244.112	=	7.0430	=	8.4541	=	128.416	
5	=	305.140	=	8.8038	=	10.5676	=	160.520	
6	=	366.168	=	10.5646	=	12.6811	=	192.624	
7	=	427.196	=	12.3253	=	14.7947	=	224.728	
8	=	488.224	=	14.0861	=	16.9082	=	256.832	
9	=	549.252	=	15.8469	=	19.0217	_	288.936	

The former measure in use before the introduction of the metrical system was the pint, and its subdivisions; and it still continues to be employed in some parts. It agrees with the metrical measure as follows:-

1 demi-poisson	=	62.50 grammes	=	0	litre	0	decilitre	6.25	centilitre.
1 poisson	=	125	=	0	66	1	66	2.5	66
1 demi-setier	=	250	=	0	66	2	"	5	"
1 chopine	=	500	=	0	66	5	"	0	46
1 pinte	=	1000	=	1	"	0	"	0	46

The subjoined is a list of the principal liquid measures' of Europe, with their corresponding value in the metrical measure of France:-

Austria.—The fundamental unity is the mass or kanne = 71.3343 Par. cubic inches, or 1.415015 litre. The mass is divided into 3 seidel, and 40 mass make one eimer.

Baden.—The fundamental unity is the mass = 1.5 decimetre cubic, and accordingly equivalent to 1.5 litre.

BAVARIA.—The fundamental unity is the mass = 43 decimal cubic inches of Bavaria, or 1.06921728 litre. The mass is divided into 4 shoppen.

DENMARK.—The fundamental unity is the pott (1/32d part of a cubic foot Danish), equivalent to 0.96529 litre. The pott is divided into four pegel, and two potts make a kanne.

GRAND DUCHY OF HESSE .- The fundamental unity is the mass, which corresponds exactly to 2 litres. The mass is divided into 4 schoppen.

Naples.—The unity is the barile, equivalent to 43.6216 litres. PORTUGAL.—The unity is the almude, equivalent to 16.451 litres.

PRUSSIA .- The unity is the quart. This measure has a capacity of 64 cubic inches of distilled water, at 61.25° Fahr. and 27° 10' barom., = 57.724 cubic inches of Paris, or 1.145 litre.2

Rome.—The unity is the barile, equivalent to 58.3416 litres.

Russia.—The unity is the wedro, which contains 750 cubic inches of dis-

measure of capacity.

¹ These measures are not employed for pharmaceutical purposes, though they are occasionally made use of in prescriptions, however, merely in the same manner as approximate measures.

In Prussia and the other German States the French litre is at present the unit of the

tilled water, at  $50^{\circ}$  Fahr. and  $30^{\circ}$  barom., =30 pounds Russian. The wedro is equivalent to 12.28963047 litres, and one litre is accordingly equivalent to 0.081369410776019 wedro. The wedro is divided into 10 stof, and the stof into 10 tschark.

Spain.—The unity is the arroba, equivalent to 16.073 litres.

Sweden.—The fundamental unity is the kanna, which contains 100 cubic decimal inches of pure water at 62° Fahr., in vacuo, equivalent to 6.151951 pounds Swedish. One pound Swedish of pure water at 62° Fahr., in vacuo, is equal to 0.4250104 litre; the kanna is consequently equivalent to 2.6146431552904 litres, or, calculated upon the maximum density of water, 2.617341607126 litres, or, in shorter terms, 2.62 litres. The kanna is divided into 2 stop, the stop into 4 quarter, and the quarter into 4 jungfrur.

TURIN.—The unity is the brenta, divided into 36 pints, and equivalent to

49.28468 litres.

Tuscany.—The unity is the barile, equivalent to 45.584 litres.

Wirtemberg measure), and is equivalent to 1.83705 litre. The mass is divided into four schoppen.

#### SPECIFIC GRAVITY.

The following remarks on Specific Gravity have been taken from Redwood's edition to Gray's Supplement, and comprise in a condensed form much useful information.

The determination of the specific gravity of a body consists in estimating the weight of a given volume of it, as compared with an equal volume of some other body. The bodies usually taken as the standard of comparison

are pure water for solids and liquids, and atmospheric air for gases.

The specific gravity of a solid is determined first by weighing it in the ordinary manner with an accurate balance suspended in the air; then attaching a horse-hair, or fine silken thread to the solid body, immersing it in pure distilled water, and weighing it while thus immersed. The weight of the body in air, divided by the difference between its weight in air and its weight in water, will be its specific gravity. Thus a piece of lead is found to weigh 398 grains in air. When immersed in water, its weight is 362.4 grains; and the difference between these two weights, namely, 35.6, is the weight of the volume of water displaced by the lead, or of a volume of water equal to that of the lead. The volume of water being taken as unity, the specific gravity of the lead is found by the following rule-of-three sum:—

35.6:1::398:11.176, the specific gravity of the lead.

In taking the specific gravity of a solid substance lighter than water, some modification of the process is required; but we have, nevertheless, the same preliminary points to determine—first, the weight of the substance in air; and secondly, the weight of an equal volume of water. This may be illustrated by taking the specific gravity of a piece of wax. The weight of the wax in air is 105.4 grains. On immersing the wax in water, two pressures are exerted—a pressure downwards, equal to the gravity or weight of the wax, and a pressure upwards, equal to the weight of the volume of water displaced by the wax; but the specific gravity of water being greater than that of wax, the upward pressure preponderates, and the wax rises to the surface. Thus, we find that a volume of water equal to that of the wax weighs as much as the wax, and something more. We must ascertain how much more; and this is done in the following manner: Some body heavier than water, and the weight of which in water is known, is attached to the wax, and the two bodies are weighed in water together. A piece of lead may be used for this purpose. The lead, alone, weighs 378 grains in water; with

the wax attached to it, the weight in water is 372.4 grains, making a difference of 5.6 grains; and this 5.6 grains is equal to the excess of the upward over the downward pressure on the wax, when immersed in water. Thus, a volume of water equal to that of the wax weighs 5.6 grains more than the wax, or 105.4 + 5.6 = 111 grains.

Then, 111:1::105.4:0.949, the specific gravity of the wax.

It sometimes happens that the solid substance, the specific gravity of which is to be determined, is in powder, or in several small particles. In such cases, it is found convenient to proceed as in the following method of taking

the specific gravity of calomel :-

100 grains of calomel are introduced into a specific gravity bottle, which holds 1000 grains of distilled water; the bottle is filled up with water, and the weight of the contents is found to be 1083.7 grains; deducting the weight of the calomel (100 grains) from this, the remainder (983.7 grains) will be the weight of the water in the bottle, and the difference (16.3 grains) between this and 1000 grains, the weight of the whole contents of the bottle when filled with distilled water, is the weight of a volume of water equal to the volume of the calomel.

Then, 16.3:1::100:6.03, the specific gravity of the calomel.

In taking the specific gravity of substances soluble in water, other modifications of the process are required. Sometimes the substance may be covered with a thin coating of varnish, so as to protect it from the action of the water. This method answers very well for blue pill, which may be brushed over with a strong tincture of mastic, and then proceeded with as in the case of the lead. In other instances, however, it is necessary to pursue a different course. Thus, any powder that is soluble in water must have its specific gravity taken, in the first instance, with reference to some liquid in which it is not soluble. Spirit of wine, oil of turpentine, or olive oil, may be used in such cases. The process may be illustrated by describing the method of taking the specific gravity of guano in oil of turpentine.

In the first place, the specific gravity of the oil of turpentine is ascertained to be 0.874. Then 100 grains of guano are introduced into a specific gravity bottle, as in the case of the calomel; and the bottle being filled up with oil of turpentine, the weight of the contents is found to be 922.7 grains, from which deducting 100 grains, the remainder (822.7 grains) will represent the oil not displaced by the guano; and this, deducted from 874 grains, the quantity of oil the bottle is capable of holding, leaves 51.3 grains as the weight of a volume of oil of turpentine equal to that of the guano. Now, 874:51.3:: 1000:58.7, the weight of a volume of water equal to that of the guano.

Then, 58.7:1::100:1.7, the specific gravity of the guano.

The methods by which the specific gravities of liquids are usually deter-

mined may be divided into two classes:-

1st. Those which consist in filling any suitable vessel with the liquid to be estimated, ascertaining the weight of the contents, and dividing this by the weight of the same volume of water.

2d. Those which consist in displacing a portion of the liquid by some solid body floating in it, and estimating the specific gravity according to the weight and volume of the substance immersed, as compared with its immersion in

water.

In the first case, the instruments employed are a specific gravity bottle

and an ordinary balance.

In the second case, the instruments used may be comprehended under the general terms of hydrometers or aërometers. These, however, are distinguished from each other (for there are many varieties of them) by different names, according to the particular purpose for which they are respectively intended, or from some peculiarity in their construction.

The specific gravity bottle affords the most accurate means of determining the comparative densities of liquids. It consists, usually, of a globular bottle with a flat bottom and a slender neck, which holds exactly 1000 grains of distilled water at a certain fixed temperature. It is very easy at any time to test the accuracy of one of these bottles by a single experiment; and, having ascertained that the bottle is correctly adjusted with regard to distilled water, the indications afforded with any other liquid will be equally trustworthy. The weight in grains of the quantity of any liquid filling such bottle will indicate its specific gravity.

Hydrometers, or aërometers, are floating instruments, and their application for the purpose of determining the specific gravities of liquids depends upon the fact, that a body immersed in any liquid sustains a pressure from below upwards equal to the weight of the volume of the liquid displaced by such

body.

The use of hydrometers for determining the specific gravities of liquids has been traced back to a period about 300 years before Christ; an instrument of this kind being described as the invention of Archimedes, the Sicilian mathematician. It subsequently fell into disuse, but was again brought into notice by Basil Valentine.

There are two kinds of hydrometers, which may be taken as the types of

all the different varieties in regard to construction:-

1st. Those which are always immersed in the liquids to be tried, to the same depth, and to which weights are added to adjust the instrument to the density of any particular liquid. Of this description are Fahrenheit's, Nichol-

son's, and Guyton de Morveau's hydrometers.

2d. Those which are always used with the same weight, but which sink into the liquids to be tried to different depths, according to the densities of the liquids. These usually have graduated scales attached to their stems. Of this description are the common glass hydrometers, generally including those of Baumé, Cartier, Gay Lussac, Twaddle, Zanetti, &c., and the specific gravity beads.

Sikes's and Dicas's hydrometers combine the principles of both types,

having movable weights and graduated scales.

Hydrometers may also be divided into two classes, as follows:-

First. Those having a general application, for determining the comparative densities of any liquids.

Second. Those intended for special application; as for estimating the comparative strength of spirits, or the comparative densities of syrups, oils, etc.

Fahrenheit's, Nicholson's, Guyton de Morveau's, and the common glass hydrometers, including Baumé's, Cartier's, Zanetti's, and the specific gravity beads, belong to the first class.

Gay Lussac's, Sike's, and Dicas's hydrometers, the saccharometer, urino-

meter, and elacometer, belong to the second class.

Fahrenheit's hydrometer consists of two glass bulbs blown in a glass tube, like a common hydrometer, excepting that the upper bulb is larger, and the stem, which is small, is terminated at the top in a cup or funnel. It has a mark on the middle of the stem, indicating the point at which the instrument is to be made to float, by means of weights put into the cup.

Nicholson's hydrometer is a modification of Fahrenheit's. It is made of brass, and consists of a hollow globe, to which is fixed a slender stem surmounted by a cup; on the opposite side of the globe is another cup fixed in a kind of stirrup, and loaded, so that this may always form the lowest point of the instrument when immersed in any liquid. There is a mark on the middle of the upper stem, indicating the point at which the instrument is to be made to float. A certain weight is introduced into the cup, to cause the instrument to sink to the proper mark in distilled water. On immersing

the hydrometer into any other liquid, more or less weight will have to be put into the cup, according as such liquid is more or less dense than water.

Thus the relative densities of liquids are determined.

This instrument is also applicable for taking the specific gravities of solids. If the solid substances be put into the cup, as part of the weight required to sink the hydrometer in distilled water, the weight of the substance in air is ascertained; and if it be then put into the lower cup, immersed in water, and the instrument again adjusted, its weight in water is ascertained; and from these its specific gravity is calculated.

Guyton de Morveau's hydrometer is similar to Fahrenheit's.

Baumé's hydrometers are used extensively in this country, as well as in France, and are applicable for all kinds of liquids. There are two distinct instruments: one for liquids lighter than water, and the other for liquids heavier than water. The latter is, for distinction, called the acidometer or saccharometer (pèse-acide or pèse-sirop); the former, the spirit hydrometer (pèse-esprit).

Baumé's acidometer is made in the form of the common hydrometers. It consists of a glass tube terminated at the lower end by two bulbs, the lowest

Fig. 1. Common Hydro-

bulb being much smaller than the other, and intended to contain the ballast with which the instrument is loaded. The scale is marked on a slip of paper, or of ivory fixed in the tube, and is adjusted in the following manner: The top of the tube being open, the slip of paper on which the scale is to be marked is put into the stem, and the instrument is then immersed in pure distilled water; quicksilver is now dropped into the lower ball until the instrument sinks so low in the water that only the top of the stem remains above the surface, and a mark is made on the glass denoting exactly the point to which it sinks. The instrument is now taken out of the pure water and put into a solution of fifteen parts of common salt in eighty-five parts of distilled water, this solution being at the same temperature as the water in which the instrument was previously immersed; the point to which it sinks in this solution is to be marked on the stem as before, and the distance between the two marks being taken with a pair of compasses, and transferred to the slip of paper, the first is made the zero or 0, and the other

the 15th degree of the scale. This distance being divided into fifteen equal parts or divisions, each division is called a degree, and the scale is completed by adding as many more degrees as the length of the stem will admit of. This being done, the slip of paper is again introduced into its place, and so fixed that the zero (0) of the scale shall be exactly opposite the first mark made on the glass. The end of the stem is now sealed with the flame

of a blowpipe.

meter.

Baumé's spirit hydrometer is similar in form to the acidometer; but the weight of the instrument, and the scale, are different. In this case, the hydrometer is first immersed, as before, in pure distilled water; but it is made to float, so that the greater part of the stem shall be above the surface of the water. This point is marked, and the instrument is then transferred to a solution of ten parts of common salt in ninety parts of water, when another mark is made. The distance between these marks is made ten degrees of the scale, which are divided with the compasses, and marked on the slip of paper, as in the other case; the floating point in the solution of salt being made the zero, and the degrees carried upwards from this point.

The temperature at which these instruments were originally adjusted by Baumé, was 10° Reaumur, or 12.5° Centigrade; but those made in England are usually adjusted at 60° Fahrenheit. It is sometimes important to be

aware of this difference.

Cartier's hydrometer is much used in France. It is only applicable for liquids lighter than water. This instrument is a modification of Baumé's spirit hydrometer, the form of the instrument being the same, and the same point being taken as the zero of the scale; but the space which, in Baumé's scale, is divided into 32°, is in Cartier's divided into 30°.

It is becoming the common practice in this country to have the scales of hydrometers marked with the specific gravities intended to be indicated, and this is by far the most convenient kind of hydrometer for general use.

Twaddle's hydrometers are much used in Scotland, and occasionally in England. They are made of glass like the common hydrometers, and are sold in sets of six. Each degree on the scale is equal to 0.005 of specific gravity, so that the specific gravity of a liquid is found, with these hydrometers, by multiplying the number of degrees indicated, by 5, and adding 1000. Thus,  $10^{\circ}$  by Twaddle's hydrometer,  $\times$  5 + 1000 = 1.050 specific gravity.

Zanetti's hydrometers, which are made at Manchester, are also sold in sets

of six. With these the specific gravity is got by adding a cipher to the number

of degrees indicated.

Specific gravity beads (Fig. 2), sometimes called Lovi's beads, are hollow sealed globes of glass, about the size of small pistol bullets. Each bead is a small hydrometer, intended to indicate one fixed density, by its remaining half way between the top and the bottom of the liquid into which it is introduced. These beads are sold in sets, each one being marked with the specific gravity it is to indicate at a certain fixed temperature. They are very useful in making mixtures of any required densities, as, for instance, in making test acids.

Gay Lussac's alcoometre (Fig. 3) is frequently employed in France; it is adapted only for estimating the strength of spirits. The instrument is made like a common glass hydrometer, the scale of which is divided into 100 parts or degrees. The lowest division marked 0, at the bottom of the scale, denotes the specific gravity of pure water at a temperature of 15° Cent.; and the highest division, at the top of the scale, the specific gravity of absolute alcohol at the same temperature. The intermediate

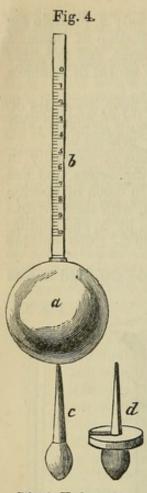
Fig. 2. Fig. 3.

Specific Gravity Bead.

Gay Lussac's Alcoometre.

degrees indicate the number of volumes of absolute alcohol in 100 volumes of the spirit tried. The instrument is accompanied by a table for correcting the numbers marked on the scale, when it is used at any other temperature than that of 15° Cent.

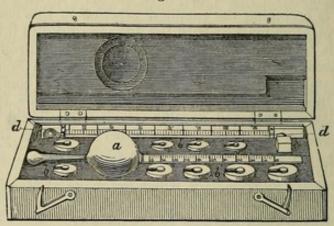
Sikes's hydrometer is used exclusively in the collection of the spirit revenue. It consists of a spherical ball or float, and an upper and a lower stem made of brass (a b c, Fig. 4); the upper stem (b) has ten principal divisions, numbered 1, 2, 3, etc., which are each subdivided into five parts; the lower stem (c) is made conical, and has a pear-shaped loaded bulb at its lower extremity. There are nine movable weights (b, Fig. 5), having the form of



Sikes's Hydrometer.

circular disks, and numbered 10, 20, 30, and so on to 90. Each of the circular weights is cut into its centre, so that it can be placed on the inferior conical stem

Fig. 5.



Sikes's Hydrometer.

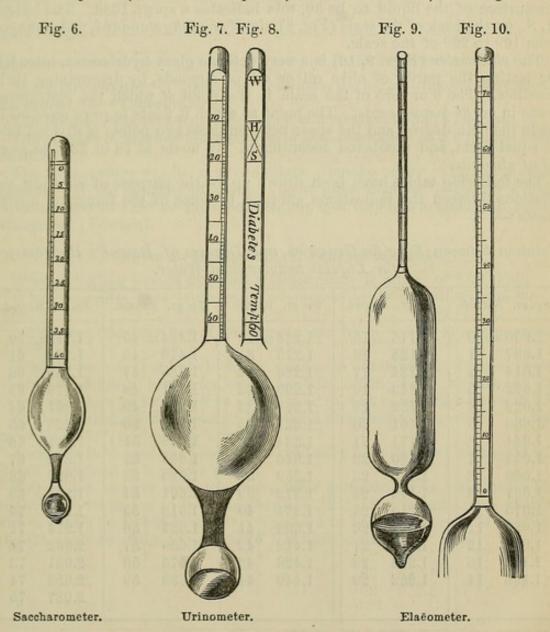
and slid down to the bulb; but, in consequence of the enlargement of the cone, they cannot slip off at the bottom, but must be drawn up to the thin part for this purpose. The instrument is adjusted to strong spirit, specific gravity .825, at 60° F., this being reckoned as standard alcohol. In this spirit the instrument floats at the first division, 0, or zero, without a weight. In weaker spirit, having a greater density, the hydrometer will not sink so low; and, if the density be much greater, it will be necessary to add one of the

weights to cause the entire immersion of the bulb of the instrument. Each weight represents as many principal divisions of the stem as its number indicates: thus, the heaviest weight, marked 90, is equivalent to 90 divisions of the stem, and the instrument with this weight added floats at 0 in distilled water. As each principal division on the stem is divided into five, the instrument has a range of 500 degrees between standard alcohol, specific gravity .825, and water. In using this instrument, it is immersed in the spirit, and pressed down by the hand to 0, till the whole divided part of the stem be wet. The force of the hand required to sink it will be a guide in selecting the proper weight. Having taken one of the circular weights, which is necessary for this purpose, it is slipped on the conical stem. The instrument is again immersed, and pressed down as before to 0, and is then allowed to rise and settle at any point of the scale. The eye is then brought to the level of the surface of the spirit, and the part of the stem cut by the surface, as seen from below, is marked. The number thus indicated by the stem is added to the number of the weight employed, and with this sum at the side, and the temperature of the spirits at the top, the strength per cent. is found in a table which accompanies the hydrometer. The strength is expressed in numbers denoting the excess or deficiency per cent. of proof spirit in any sample; and the number itself, having its decimal point removed two places to the left, becomes a factor, whereby the gauged contents of a cask or vessel of such spirit being multiplied, and the product being added to the gauged contents if over proof, or deducted from it if under proof, the result will be the actual quantity of proof spirit contained in such cask or vessel. Dicas's hydrometer is similar in construction to Sikes's; and it is used in

a similar manner, with the same result, indicating the relation of the spirit

tried to standard proof spirit.

It is the practice in commerce to designate the strength of spirit as so many degrees above or below proof, the government having fixed upon what is called proof spirit as the standard, in comparison with which, the strength of all spirit shall be estimated. The term proof is said to have been derived from the ancient practice of trying the strength of spirit by pouring it over gunpowder in a cup, and then setting fire to the spirit; if, when the spirit had burned away, the gunpowder exploded, the spirit was said to be over proof; if, on the other hand, the gunpowder failed to ignite, in consequence of the water left from the spirit, it was said to be under proof. The weakest spirit capable of firing gunpowder in this way was called proof spirit; but it requires a spirit nearly of the strength of what is now called rectified spirit to stand this test. The standard proof spirit of the Excise is defined by law (56 Geo. III. cap. 140) to be "that which, at a temperature



of 51° by Fahrenheit's thermometer, weighs exactly twelve-thirteenth parts of an equal measure of distilled water." This will have a specific gravity of .923 at 51° Fahr., or about .920 at 60° Fahr. The standard alcohol of the Excise is spirit, the specific gravity of which is .825 at 60° Fahr. By

"spirit 60 degrees over proof," is understood a spirit, 100 measures of which, added to 60 measures of water, will form standard proof spirit, sp. gr. 920. By "spirit 10 degrees under proof," is understood a spirit, 100 measures of which, mixed with 10 measures of standard alcohol, sp. gr. .825, will form standard proof spirit.

Saccharometers (Fig. 6), which are hydrometers intended for determining the density of syrups, are usually made and graduated in the same manner as Baumé's acidometers, and differ only from these in being made smaller; but the scale is sometimes graduated to indicate the proportion of sugar in the solution.

The urinometer is a small hydrometer, originally suggested by Dr. Prout, for estimating the density of urine. The scale (Fig. 7) is divided into 60 degrees, the zero being the point at which it floats in distilled water. The numbers on the scale, added to 1000, the assumed sp. gr. of water, give the specific gravities at the respective points; thus, supposing the number cut by the surface of the liquid to be 30, this indicates a sp. gr. 1030. The letters H. S., on the back of the scale (Fig. 8), signify healthy standard, which ranges from 10° to 20° of the scale.

The elaëometer (Figs. 9, 10) is a very delicate glass hydrometer, intended for testing the purity of olive oil or oil of almonds, by determining their densities. The 0 or zero of the scale is the point at which the instrument floats in oil of poppy seeds. The point at which it floats in pure olive oil is made the 50th degree, and the space between these two points is divided into 50 equal parts, and numbered accordingly. It floats at 38 or  $38\frac{1}{2}^{\circ}$  in pure oil of almonds.

The following tables have been drawn up for the purpose of showing the relations between the indications afforded by some of the foregoing instruments:—

Relation between Specific Gravities, and Degrees of Baumé's Hydrometer for Liquids heavier than Water.

| Sp. gr. Baumé. |
|----------------|----------------|----------------|----------------|----------------|
| 1.000 = 0      | 1.116=15       | 1.264=30       | 1.454=45       | 1.714 = 60     |
| 1.007 1        | 1.125 16       | 1.275 31       | 1.470 46       | 1.736 61       |
| 1.014 2        | 1.134 17       | 1.286 32       | 1.485 47       | 1.758 62       |
| 1.022 3        | 1.143 18       | 1.298 33       | 1.501 48       | 1.779 63       |
| 1.029 4        | 1.152 19       | 1.309 34       | 1.526 49       | 1.801 64       |
| 1.036 5        | 1.161 20       | 1.321 35       | 1.532 50       | 1.823 65       |
| 1.044 6        | 1.171 21       | 1.334 36       | 1.549 51       | 1.847 66       |
| 1.052 7        | 1.180 22       | 1.346 37       | 1.566 52       | 1.872 67       |
| 1.060 8        | 1.190 23       | 1.359 38       | 1.583 53       | 1.897 68       |
| 1.067 9        | 1.199 24       | 1.372 39       | 1.601 54       | 1.921 69       |
| 1.075 10       | 1.210 25       | 1.384 40       | 1.618 55       | 1.946 70       |
| 1.083 11       | 1.221 26       | 1.398 41       | 1.637 56       | 1.974 71       |
| 1.091 12       | 1.231 27       | 1.412 42       | 1.656 57       | 2.002 72       |
| 1.100 13       | 1.242 28       | 1.426 43       | 1.676 58       | 2.031 73       |
| 1.108 14       | 1.252 29       | 1.440 44       | 1.695 59       | 2.059 74       |
|                |                |                |                | 2.087 75       |

Relation between Specific Gravities, and Degrees of Baumé's Hydrometer for Liquids lighter than Water.

Sp. gr. Baumé.	Sp. gr. Baumé.	Sp. gr. Baumé.	Sp. gr. Baumé.	Sp. gr. Baumé
1.000=10	0.934 = 20	0.875=30	0.823 = 40	0.777 = 50
0.993 11	0.927 21	0.869 31	0.819 41	0.773 51
0.986 12	0.921 22	0.864 32	0.814 42	0.769 52
0.979 13	0.915 23	0.859 33	0.809 43	0.765 53
0.972 14	0.909 24	0.853 34	0.805 44	0.760 54
0.966 15	0.903 25	0.848 35	0.800 45	0.756 55
0.959 16	0.897 26	0.843 36	0.796 46	0.752 56
0.953 17	0.892 27	0.838 37	0.791 47	0.748 57
0.946 18	0.886 28	0.833 38	0.787 48	0.744 58
0.940 19	0.880 29	0.828 39	0.782 49	0.739 59
			1000	0.735 60

#### TEMPERATURES TO BE OBSERVED IN CERTAIN PHARMACEUTICAL OPERATIONS.

In the fermentation of saccharine solutions, the highest temperature should not exceed 86° (Thomson).

The lowest temperature at which they will ferment is 38° (Thomson).

The process of acetous fermentation is best conducted at a temperature of about 86°.

The temperature requisite to coagulate albumen varies with the state of dilution. If the quantity of albumen be so great that the liquid has a slimy aspect, a heat of 145° or 150° suffices, but in a very dilute condition boiling is required (Fownes).

# In the British and U. S. Pharmacopæias-

When a boiling heat is directed, a temperature is meant of 212° Fahr. When a gentle heat is directed, a temperature is meant of from 90° to 100°.

All the specific gravities of substances are to be taken at a temperature of 60°.

A water bath is that by which any substance contained in a proper vessel is exposed either to hot water, or the vapor of boiling water, so that the substance may thus be subjected to a heat near to, but necessarily below 212.°

In the steam-bath the vapor of water at a temperature above 212°, but not exceeding 230°, is similarly applied.

A sand-bath is made of sand, to be gradually heated, in which anything is

placed contained in a proper vessel.

Vegetables, shortly after they have been gathered, those excepted which ought to be fresh, are to be lightly strewed, and dried as quickly as possible with a gentle heat (90° to 100°). They are to be kept afterwards in proper vessels, excluded from the access of light and moisture.

# HYDROMETRICAL EQUIVALENTS.

Sp. gr. at 60° Fah.	100 parts of Alcohol sp. gr.	ontain of Water.	1000 parts contain of standard	Sikes.	Baumé.	Cartier.	Per cent. of Alcohol, sp. gr. 796
10	796. By we	eight.	Alc. sp. gr. 825.				by volume. GayLussac.
796	100	0	e le la	TORRES DE	46.5	43.48	100
797	99.5	.5		FRANK MAR			99.75
798	99	1	1 118	miature of B	46	43.06	99.50
799	98.67	1.33	1 18-	\$18.0°			99.25
800	98.33	1.67		STELL STREET	1/4/8		99
801	98	2	THE REAL PROPERTY.	DEMONS B	A POST		98.75
802	97.67	2.33	A LOS		45	42.14	98.50
803	97.33	2.67	100		10	42	98.28
804	97	3	00	BORROS NO	1,000		98.15
805	96.67	3.33					98
806	96.33	3.67					97.80
806.5	96.17	3.83			44	41.22	97.70
807	96	4	TO MILETO		**	11.22	97.60
808	95.5	4.5	all many file	No. of the last		41	97.40
809	95	5				71	97.29
809.5	94.89	5.10	A CONTRACTOR OF THE PARTY OF TH	DEPT. TO SECUL			97.10
810	94.67	5.33					97
811	94 33	5.67		The state of the s	43	40.34	96.75
812	94	6	boutto and		45	40.04	96.50
813	93.67	6.33				40	96.25
814	93.33	6.67				40	96
815	93	7	I HE THE		Labini		95.75
816	92.5	0.000			10	39.40	755507755007
817	92.5	7.5	Dec 60 2		42	59.40	95.50
818		8					95.25
0.000.000.000.000	91.67	8.33	Terrangung		FEI JES	20	95
818.6 819	91.5	8.5	September 19		FF 31794	39	94.90
2000	91.33 91	8.67					94.75
820		9	22 070, 80		43	90.40	94.50
821	91.5	9.5			41	38.46	94.25
822	90	10	dewented?		Will House	90	94
823	89.67	10.33	in to some	F. 201 1 70 - 19 10	19.3011	38	93.75
824	89.33	10.67	7000	00 O D	10	05.55	93.50
825	89	11	1000	63 O. P.	40	37.55	93.25
826	88.5	11.5	993	62	malimie	04	93
827	88	12	988.5	61.5	00.5	37	92.6
828	87.67	12.33	984	61	39.5	00.00	92.3
829 830	87.33	12.67	979.5	60.5	39	36.63	91
VD-V-01000	87	13	975	60	20.5	90.15	91.7
831	86.5	13.5	970.5	59.5	38.5	36.17	91.35
832	86	14	966	59	pain ma	36	91
833	85.67	14.33	961.5	58.3	00	05 50	90.65
834	85.33	14.67	957	58	38	35.72	90.3
835	85	15	953	57.5	0	07.00	90
836	84.67	15.33	949	57	37.5	35.26	89.7
837	84.33	15.67	944.5	56.5		0-	89.35
837.6	84.25	15.75	942.5	56.3		35	89.20
838	84	16	940	56	01-		89
839	83.5	16.5	936	55.5	37	34.80	88.75
840	83	17	932	55			88.5

Sp. gr. at 60° Fah.	Alcohol sp. gr. 796.	water.	1000 parts contain of standard Alc. sp. gr.	Sikes.	Baumé.	Cartier.	Per cent. o. Alcohol, sp. gr. 796 by volume
	By w	eight.	825.		- 44	an yu	GayLussac
841	82.67	17.33	928	54.5 O.P.	36.5		88.25
842	82.33	17.67	924	54	TO.08	34.94	88
843	82	18	920	53.5	150	34	87.65
844	81.67	18.33	916	53	36	33.88	87.3
845	81.33	18.67	912	52.5	80		87
846	81	19	908	52	ness n		86.7
847	80.5	19.5	903	51	35.5	33.42	86.35
848	80	20	898	50	89,88		86
849	79.67	20.33	893	49.5	THE !		85.65
850	79.33	20.67	888	49	35	33	85.3
851	79	21	883	48.5			85
852	78.5	21.5	878	48	34.5	32.43	84.7
853	78	22	873	47.5			84.35
854	77.5	22.5	868	47			84
855	77	23	862.5	46.5	34	32.04	83.65
856	76.5	23.5	857	46	Walls .		83.3
857	76	24	853	45.5	33.5	31.58	83
858	75.67	24.33	849	45.25			82.7
859	75.33	24.67	844.5	45			82.35
860	75	25	840	44.75	33	31.13	82
861	74.67	25.33	836.5	44.5		31	81.7
862	74.33	25.67	833	44			81.3
862.5	74.16	25.84	830.5	43.75	32.5	30.76	80
863	74	26	828	43.5		00.,0	80.8
864	73.5	26.5	823	43			80.3
865	73	27	818	42.5	32	30.21	79.95
866	72.5	27.5	813	42			79.6
867	72	28	810	41	10.00		79.3
867.5	71.83	28.17	808.5	40.5	31.5	29.78	79.15
868	71.67	28.33	807	40			79
869	71.33	28.67	802.5	39.5	THEFT		78.65
870	71	29	798	39	31	29.29	78.3
871	70.5	29.5	792.5	38.5	Page 1		78
872	70	30	787	38		29	77.7
873	69.5	30.5	781.5	37	30.5	28.83	77.35
874	69	31	776	36	PA DE		77
875	68.67	31.33	772	35			76.5
876	68.33	31.67	768	34	30	28.38	76
877	68	32	762.5	33	0.5	20.00	75.65
877.5	67.75	32.25	759.25	32.5		28	75.5
878	67.5	32.5	757	32	188		75.3
878.5	67.25	32.75	753.75	31.5	29.5	27.91	75
879	67	33	751.5	31		21.01	74.8
880	66.5	33.5	746	30	1000		74.3
881	66	34	742	29.5	29	27.44	74
882	65.5	34.5	738	29	A STATE OF	-11.22	73.7
883	65	35	733.5	28.5	22-02-	27	73.35
883.5	64.83	35.17	731.25	28.25	28.5	26.99	73.17
884	64.67	35.33	729	28	2010	20.00	73
885	64.33	35.67	724	27.5	S.Pone		72.5
886	64	36	719	27	28	26.53	72

	100	and the set	12000 4-				
Sp. gr. at 60° Fah.	100 parts c		1000 parts contain of		-	~	Per cent. of Alcohol,
60° Fah.	sp. gr. 796	Water.	Alc. sp. gr.	Sikes.	Baumé.	Cartier.	sp. gr. 796 by volume.
	By we	eight.	825.			on to	GayLussac.
887	63.67	36.33	714	26 O. P.	BBRA		71.5
888	63.33	36.67	709	25	7		71
889	63	37	704	24.5	27.5	26.07	70.65
890	62.5	37.5	699	24	DO SE	70.18	70.3
891	62	38	694	23	10.61	181.18	69.8
892	61.5	38.5	689	22	27	25.61	69.3
893	61	39	684.5	21	CRE	0.00	69
894	60.67	39.33	680	20	UNIT	80	68.7
895	60.33	39.67	675.5	19.5	E 08		68.35
895.5	60.16	39.84	673.25	19.25	26.5	25.15	68.17
896	60	40	671	19	124	25	68
897	59.5	40.5	666.5	18	To the		67.65
898	59	41	662	17	26	24.69	67.3
899	58.5	41.5	655.5	16	0.88		67
900	58	42	649	15	844		66.7
900.5	57.75	42.25	647	14.75	25.5	24.23	66.52
901	57.5	42.5	645	14.5	144		66.35
901.5	57.25	42.75	643	14.25	STATE	24	66.17
902	57	43	641	14			66
903	56.5	43.5	636	13	25	23.77	65.5
904	56	44	631	12	51.98		65
905	55.5	44.5	626	11.5	THE		64.5
906	55	45	621	11	24.5	23.31	64
907	54.5	45.5	616.5	10.5	OF		63.65
908	54	46	612	10	COUR !	23	63.3
909	53.5	46.5	607	9	24	22.85	62.65
910	53	47	602	8	15/18		62.3
911	52.5	47.5	595.5	7.5			61.9
912	52	48	591	7	23.5	22.39	61.5
913	51.67	48.33	586	6	Tell-tell	70-15	61
914	51.33	48.67	581	5	MARK	66.11	60.5
915	51	49	576	4	23	21.94	60
916	50.5	49.5	571	3	0.02		59.6
917	50	50	560.5	2			59.3
918	49.67	50.33	562		22.5	21.48	59
919	49.33	50.67	554	.5	100	30	58.5
920	49	51	550	Proof	20		58
921	48.5	51.5	545	1 U.P.	22	21.02	57.5
922	48	52	540	2	07.5	00.50	57
923	47.5	52.5	535.5	3	21.5	20.56	56.5
924	47	53	531	4	2000		56
925	46.5	53.5	526	5	01	00.10	55.5
926	46	54	521	6	21	20.10	55
927	45.5	54.5	515.5	6.5	The Contract of		54.5
928	45	55	510	7	7 19		54
929	44.5	55.5	505	8	00.5	70.04	53.5
929.5	44.25	55.75	502.5	8.5	20.5	19.64	53.25
930	44	56	500	9	STEP SE		53
931	43.67	56.33	495.5	10	-		52.5
932	43.33	56.67	489	11	00	10.10	52
933	43	57	484	12	1 20	19.18	51.5

Sp. gr. at 60° Fah.	Alcohol sp. gr.	water.	1000 parts contain of standard	Sikes.	Baumé.	Cartier.	Per cent. of Alcohol, sp. gr. 796
	796.	eight.	Alc. sp. gr. 825.		100		by volume GayLussac
934	42.5	57.5	479	13 O. P.	8.08	19	51
935	42	58	472.5	14	70.5	10 50	50.5
936	41.5	58.5	468	15	19.5	18.72	50
937	41	59	462	16			49.5
938	40.5	59.5	456	17	10	10.00	49
939	40	60	450	18	19	18.26	48.5
940	39.5	60.5	444	19		18	48
940.5	39.25	60.75	441	19.5	1	10	47.63
942	39	61	438	20	105	17.80	47.25
943	38.5	61.5	432	21	18.5	11.00	46.5
944	38 37.5	62.5	426.5	22 23			45.5
945	37	63	421	23.5	10	17.35	44.75
946	36.5	63.5	416 411	24.5	18	11.55	44.75
947	36	64	The state of the s	25	A CONTRACTOR OF THE PARTY OF TH	17	43.5
948	35.5	64.5	399	26	17.5	16.89	43
949	35	65	397	27	11.0	10.00	42.25
950	34.5	65.5	389.5	28	1		41.5
951	34	66	382	29.5	17	16.43	40
952	33.5	66.5	376	31	11	10.40	40.5
953	33	67	370 364	32.5	(177 HILLEY		39.75
954	32.5	67.5	TO SECURE THE PARTY OF THE PART	34			39.15
955	32.5	68	358 352	35	16.5	16.3	38.5
956	31.5	68.5	346	36	10.0	16	38
957	31.5	69	339.5	37.5	7 11 11 11	10	37.25
958	30	70	333	39	1		36.5
959	29.5	70.5	324	40.5	16	15.51	35.75
960	29	71	315	42	10	10.01	35
961	28.5	71.5	307.5	43.5	-30		34.5
962	28	72	300	45	15.5	15	34
963	27	73	292.5	46.5	10.0		33
964	26.5	73.5	285	48			32
965	26	74	277.5	49.5	15	14.59	31
966	25.5	74.5	270	51	10		30
967	25	75	261.5	52.5			29
968	24	76	253	54			28
968.5	23.75	76.25	200		14.5	14.13	27.5
969	23.5	76.5	244.5	55.5	11.0	11.10	27
970	23	77	236	57			26
971	22.5	77.5	227	58.5	10000		25
972	22	78	218	60	14	13.67	24
973	21	79	209	62	11	20.01	23
974	20	80	200	64	1991		22
975	19	81	195	66	13.5	13.21	21
976	18.5	81.5	190.5	68	10.0		20
977	18	82	183.5	70			19
978	17	83	175	72	13	12.76	18
979	16	84	163	73.5	10		17
980	15.5	84.5	150	75			16
981	15	85	143	76	5mblens		15
982	14	86	135	77	12.5	12.30	14

Sp. gr. at 60° Fah.	Alcohol sp. gr. 796.	Water.	1000 parts contain of standard Alc. sp. gr. 825.	Sikes.	Baumé.	Cartier.	Per cent. of Alcohol, sp. gr. 796 by volume. Gay Lussac.
983	13.5	86.5	128	78.5 O.P.	0.00	8.28	13
984	13	87	120	80	80		12
985	12.5	87.5	112	81			11.25
986	12	88	105	82	12	11.84	10.5
987	11	89	98	83.5			9.75
988	10	90	90	85	DRE	7 00	9
989	9	91	82	87	11.5	11.38	8
990	8	92	75	89	11,000 +	THE REAL PROPERTY.	7
991	7	93	67.5	90.5	100	1000000	6.5
892	6	94	60	92	10000		6
993	5.5	94.5	52.5	93.5	11	10.92	5
984	5	95	45	95	1000	2118	4
995	4	96	37.5	95.5	180	1000	3.5
996	3.5	96.5	30	96	10.5	10.46	3
997	3	97	22.5	97	44	NA	2
998	2	98	15	98	WHAT!	0,02	1
999	1	99	7.5	99	38	- 00	.5
1000	0	100	0	100	10	10	0

# SPECIFIC GRAVITIES OF SOME OF THE LIQUID PREPARA-TIONS ORDERED IN THE PHARMACOPŒIAS.

The German Pharmacopæia directs the Specific Gravity to be taken at a temperature of 15° C. The Paris Codex at 18° C. The British and U. S. Pharmacopæias at 60° Fahr.

	Sp. Gr.
Acetum	Brit1.017 to 1.019
Acidum Aceticum	
Glaciale	
Concentratum	
Dilutum	
	. Germ1.040
Hydrochloricum	Brit., U.S1.160
	.Fr 1.18
Purum	. Germ 1.124
Dilutum	
	Brit 1.052
	. U. S1.038
	Brit 0.997
Nitricum	Fr., Brit., U.S. 1.420
Purum	. Germ1.185
Dilutum	. Germ1.089
	. U. S 1.068
	Brit 1.101
	. Dublin 1.092
Phosphoricum	
Dilutum	. U. S 1.056
	. Fr., Brit 1.08
——————————————————————————————————————	. Fr., Brit., U.S. 1.843
	. Germ1.840

	Sp. Gr.
Acidum Sulphuricum Dilutum	Germ1.113 to 1.117
	Brit1.094
	U. S1.082
Æther	
— Fortior (Purus)	
— Nitrosus	
Alcohol ¹ (rectificatus)	
—— i	
——– Fortius	U. S0.817
Dilutum	U. S0.941
(tenuior)	Brit 0.920
Aqua Destillata	
——————————————————————————————————————	
——————————————————————————————————————	
(liquor)	Drit
Fortior	
(liquor)	
Chloroformum	
	Brit 1.49
	U. S., Fr1.480
Glycerina	
Glycerinum	
Liquor Ammonii Acetici	
<u> </u>	
——————————————————————————————————————	Germ1.070 to 1.074
Antimonii Chloridi	Brit 1.47
(Stibiichlorati).	Germ1.340 to 1.360
- Bismuthi et Ammoniæ Citratis	Brit1.122
Ferri Acetici	Germ1.134 to 1.138
———— Chloridi	U. S
———— Perchloridi	
————— Fortior	Brit. 1 338
————— Sesquichlorati	Germ 1 480 to 1 484
	U S 1 000 to 1 070
Pernitratis	
Cubarlabatia	Drit
Subsulphatis	U.S1.552
	Brit1.441
———— Sulphurici Oxydati	
Tersulphatis	U. S
— Hydrargyri Nitratis	Brit2.246
	U.S2.165
——— Plumbi Subacetatis	
Subacctici	Comm 1 925 to 1 940
———— Subacetici	Germ1.235 to 1.240

¹ The French Codex indicates the density of alcohol by giving in the various formulæ its specific gravity direct, or in degrees of Cartier's hydrometer, or in degrees of Gay-Lussac's alcoometer.

		Sp. Gr.
Liquor Potassæ	U. S	1.065
Kali Caustici		
Liquor Sodæ		
***************************************		
— Natri Caustici		
Spiritus Æthereus		
Ætheris		
Compositus		
Nitrosi		
(Spiritus rectificatus and tenuior, see Alcoho		
Syrupus		1.317
(boiling)		
Tinctura Ferri Perchloridi		
——— Iodi Decolorata		
2001 2000101000 11111111111111111111111	O. O. I	. 0.010 00 0.010

#### RELATION BETWEEN DIFFERENT THERMOMETRICAL SCALES.

The thermometer always used in this country and England is that of

In this instrument, the range between the freezing and boiling points of water is divided into 180°, and as the greatest possible degree of cold was supposed to be that produced by mixing snow and salt together, it was made the zero. Hence, the freezing point became 32°, and the boiling point 212°.

The Centigrade thermometer places the zero at the freezing point of water, and divides the range between the freezing and boiling points into 100°. This scale has long been used in Sweden, under the title of Celsius's thermometer, and has been adopted by all the European pharmacopæias, except the British.

Reaumur's thermometer, which was formerly used in France, divides the space between the freezing and boiling points of water into 80°, and places the zero at the freezing point. It is now little employed, except in parts of Germany.

De Lisle's thermometer is used in Russia. The graduation begins at the boiling point, and increases towards the freezing point. The boiling point is marked 0°, and the freezing point 150°.

To reduce Centigrade degrees to those of Fahrenheit. Rule.—Multiply by 9, divide the product by 5, and add 32. Thus,  $40 \times 9 \div 5 + 32 = 104$ .

Thus, 
$$40 \times 9 \div 5 + 32 = 104$$
.

To reduce Fahrenheit's degrees to those of Centigrade. Rule.—Subtract 32, multiply by 5, and divide by 9.

Thus, 
$$104 - 32 \times 5 \div 9 = 40$$
.

To reduce Reaumur's degrees to those of Fahrenheit. RULE.—Multiply by 9, divide by 4, and add 32.

Thus, 
$$32 \times 9 \div 4 + 32 = 104$$
.

To reduce Fahrenheit's degrees to those of Reaumur.

Rule.—Subtract 32, multiply by 4, and divide by 9.

Thus,  $104 - 32 \times 4 \div 9 = 32$ .

To reduce Reaumur's degrees to those of Centigrade.

RULE .- Multiply by 5, and divide by 4.

Thus,  $32 \times 5 \div 4 = 40$ .

To reduce Centigrade degrees to Reaumur.

RULE.—Multiply by 4, and divide by 5.

Thus,  $40 \times 4 \div 5 \stackrel{\text{Reaum.}}{=} 32$ .

# EXPLANATION OF THE PRINCIPAL ABBREVIATIONS OCCURRING IN PHARMACEUTICAL FORMULÆ.

R. Recipe-Take.

F. S. A. Fiat secundem artem—Let it be made or prepared according to the rules of the art.

M. Misce-Mix.

M. S. D. Misce, signa, da—Mix the medicine, and deliver it afterwards, with the requisite instruction, to the patient (or nurse) in writing.

M. F. P. Misce flat pulvis—Mix to form a powder.

M. F. Mist. Misce fiat mistura—Mix to form a liquid mixture.

M. F. Pil. Misce fiant pilulæ—Mix to form pills.

Div. Divide—Divide. Sol. Solve—Dissolve.

Fasc. j. Fasciculus¹—An armful.

Man. j. Manipulus—A handful, a gripe.

Pugil. j. Pugillus or Pugillum—A pinch.

Cyat. j. Cyathus-A glassful.

Cochl. j. Cochlear or Cochleare—A spoonful.

Gutt. Gutta—A drop.

No. 1, 2, 3, etc.—The number of pieces or parts.

Ana, or āā.—Of each.

P. Ae. Partes æquales—Equal parts.

Q. S. Quantum sufficit—As much as will suffice.

Q. L. Quantum libet—As much as you like.

Q. V. Quantum volueris—As much as you like.

tb. Libra—A pound.Uncia—An ounce.

3. Drachma—A drachm or dram.

Gr. Granum—A grain.

Pil. Pilula—A pill.

Pot. Potio—A potion.

Pulv. Pulvis-A powder.

Tinct. Tinctura-A tincture.

¹ The terms fasciculus, manipulus, and pugillus are understood differently by authors, as seen in the following table:—

Lini	næus.	Geiger.	Paris.
Pugillus	ξi	Zss ad Zi	zi ad Zii.
Manipulus	3iv	ziv z	i ad Ziiss.
Fasciculus	vi	Z-1	, 3.300
	,1,	OJ.	

Ext. Extractum—An extract. Chart. Chartula—A small paper. Collyr. Collyrium-An eye water. Collutor. Collutorium-A mouth-wash. Cong. Congius—A gallon. O. Octarius-A pint. f3. Fluiduncia—A fluidounce. f3. Fluidrachma—A fluidrachm. m. Minimum-A minim. Decoct. Decoctio—A decoction. Garg. Gargarisma—A gargle. Haust. Haustus—A draught. Infus. Infusum-An infusion. Mass. Massa-A mass. Mist. Mistura-A mixture. Ss. Semis—A half.

The Latin language is used in many parts of Europe for prescriptions and for the accompanying directions, except in France, where, although the prescription itself may be in Latin, the directions are usually given in French, and in Germany, where the prescription is written in Latin, but the directions in German; this is also the case in the United States, where few, if any, physicians give the directions for the use and mode of administration of a formula in any other language than English. As, however, it often becomes of importance to refer to the prescriptions of foreign practitioners, the following table, from Mowbray's Conspectus, is introduced:—

#### A VOCABULARY

Of the Words most frequently occurring in the Prescriptions of Physicians.

#### A.

A, or āā, or ana, of each ingredient; more promptly expressed by the genitive case plural (singulorum) of each; for instance:

R.—Aquæ cinnamomi, tinct. rhei, āā f3ij, means

Take of cinnamon-water, and the tincture of rhubarb, of each two fluidrachms.

Abdomen, the belly. Gen.—inis, of the belly. Dat.—ini, to the belly.

Absente febre, while the fever is off.

Accurate (adverb), accurately. Accurate pensi, weighed with the utmost exactness. Accurate misceantur, mix very completely.

Aciditas, sharpness. Ad gratam aciditatem, make it just acid enough to be palatable, and not too sour.

Acmè, the height of a fever or any other disease.

Ad, to. Ad duas vices, at twice taking. Ad libitum, freely, as you like.

Adde, add. Addantur, let there be added. Addendus, to be added. Addendo, adding.

Admoveatur, let there be applied—antur, plural, when more than one is to be applied.

Adstante febre, while the fever is on.

Æger, a sick person, a patient. Ægra, a female patient.

Aggrediente febre, when the fever is coming on.

Aggressus, an attack. Aggressus febris, the attack of a fever.

Agitato vasè, shake the phial.

Albus, white.

Aliquot, some. Aliquotes, sometimes.

Alter, altera, alterum, the other.

Alternus, alternate. Alternis horis, every second hour. Alternis diebus, every alternate day.

Aluta, leather. Extende super alutam mollem, spread on soft leather.

· Alvus, the belly, the bowels. Adstrictâ alvo, when costive.

Amplus, large. Cochleare amplum, a tablespoonful. Antè, before. Ut antè, as before.

Antemeridianus, in the forenoon; any time before twelve o'clock at noon.

Apparatus, any sort of preparation, instruments, or in short, everything that is requisite to be had in readiness for performing any sort of operation. Also, the more delicate term for a bladder and pipe for clysters.

Aperiens, opening, gentle purging. Applicatur, let there be applied.

Aqua, water. Aqua, of water. Aqua bulliens, boiling water. Aqua fervens, hot water.

Armatus, armed. Fistula armata, an apparatus for clysters; a pipe and bladder.

Auris, the ear. Auri, to the ear. Aures, ears. Auribus, to the ears. Aut, or.

В.

Benè, well.

Bibat, let him drink.

Biduum, two days. Omni biduò vel triduo, every two or three days. Bihorium, the space of two hours. Omni bihorio, every two hours.

Bis, twice; bis, terve, twice or thrice.

Bullio, to boil; bulliens, boiling. Aquæ bullientis, of boiling water. Bulliant, let them boil.

C.

Calefactus, made warm.

Capiat, let (the patient) take. Capt. cochl. iij. magn., three tablespoonfuls to be taken.

Catharticus, purging. Cautè, cautiously.

Cerevisia, beer. Cerevisia Londinensis, porter. Cerevisiae Fermentum, yeast. Charta, paper. Charta cærulea, blue paper. Chartula, a little piece of paper. Cola trans chartam, filter through paper.

Cibus, food.

Circa, about. Circiter, about.

Citò, soon, quickly. Citíssimè (the superlative degree), as quick as possible. Clausus, clausu, covered. Vase clauso, in a covered vessel.

Cochleare, a spoonful. Cochlearia, spoonfuls. Coch. magnum, amplum, a tablespoonful. Co. infantulorum, coch. modicum, child's spoonful, a dessertspoonful. Co. parvum, a teaspoonful.

Coctio, a boiling. Sub finem coctionis, towards the end of the boiling, when almost boiled.

Cæruleus, blue. Charta cærul., blue paper. Unguentum cæruleum, mercurial ointment.

Cola (imperat. of Colo), strain, to filter.

Colatus, strained, filtered. Colato liquori, to the strained liquor.

Colatura, a straining. Colaturæ, to the strained liquor.

Colatus, let it be strained. Colentur, let them be strained.

Collum, a neck.

Comp., Compositus, compound.

Continuo, to continue. Continuantur remedia, go on with the same medicines as last prescribed.

Contundo, to bruise. Contusus, bruised.

Contusio, a bruise, a contusion.

Coque, to boil. Coque, boil. Coque parum, boil a little while.

Coquantur, let them be boiled.

Cor, the heart. Scrobiculus cordis, the pit of the stomach. Coxa, coxendix, the hip.

Cras, to-morrow; c. m., cras mane, early to-morrow morning; c. m. s., cras mane sumendus, to be taken early to-morrow morning.

Crastinus (adj.), of to-morrow. In usum crastinum, for to-morrow's use.

Cribrum, a sieve. Trans cribrum, through a sieve.

Cujus, of which. Cujus capiat, or sumat, of which (the patient is to) take.

Cum, with.

Cyathus, a cup. Cyathus vinarius, a wineglass. Cyath. theat, a teacupful.

Da, give. Detur, dentur (plural), let be given.

De, of. De quo, or quâ, of which. De die, in a day.

Deauratus, gilt. Deaurentur pilulæ, let the pills be gilt.

Debilitas, weakness.

Decem, ten. Decimus, the tenth.

Debitus, due. Ad debitam spissitudinem, to a proper degree of thickness, as to consistence.

Decubitus, lying down. Horâ decubitûs, at bedtime.

Deglutio, to swallow. Deglutiatur, is swallowed-etur, let be swallowed.

Dein, deinde, then; afterwards.

Dejectio, a depositing, or putting down; also a going to stool; as, post duas dejectiones alvi, after two motions.

Dejitio, to deposit. Donec alvus bis dejiciat, until the patient shall have had two stools.

Dexter, the right. Manus dextra, the right hand. Auri dextro, to the right ear.

Dictus, spoken of, said.

Dies, a day. Die, in a day; as, bis die, twice a day. Diebus, in days; as, tertiis diebus, every third day. Alternis diebus, every alternate day. Dilutum, diluted.

Dimidium, the half. Dimidius, a, um (adjective), half.

D. P., Directione propriâ, with its proper direction. Diu, a long time. Tere diu, rub for a long time.

Diuturnus, long continued. Diuturnà trituratione, by long-continued rubbing, or grinding in the mortar. Diuturna coctione, by long boiling.

Dolor, pain. Dolores, pains. Doloris, of the pain. Dolens, pained. Parti dolenti, to the pained part.

Donec, until. Dum, whilst.

Durante dolore, while the pain continues.

E.

Eadem, eandem, the same. Eodem, in the same.

Effunde, pour out.

Effervescentia, the effervescence.

Effervescet, effervesces.

Ejusdem, of the same, the genitive case of idem.

Enema, a clyster. Enemata, clysters.

Erit, shall be.

Evanesco, evanui, to disappear. Evanuerit, shall have disappeared.

Exhibe, exhibeatur, give. Exhibendus, to be given.

Extendo, to extend, also to spread. Extende super alutam, spread it on leather.

Extensus, a, um, spread.

F.

Fac, make. Fac in pilulas xij, make into twelve pills.

Farina, flour. Farina seminis lini, linseed meal.

Febris, a fever. Febre durante, while the fever is on.

Femur, a thigh.

Femoribus, to the thighs. Femoribus internis, to the inner sides of the thighs.

Fervens, boiling. Fervidus, fervida, hot.

Ferventis, of boiling. R. aq. ferventis, take of boiling water. Finis, the conclusion. Sub finem coctionis, when almost boiled enough.

Fiat, make (the singular number). Fiant, make (plural).

Fontana, fountain. Aqua fontana, spring water.

Formula, prescription. Fotus, a fomentation.

Fuerit, shall have been; as, donec alvus soluta fuerit, until a motion is (or shall have been) procured.

G.

Gargarisma, a gargle.

Gelatina, jelly. Gelatina ribesiorum, currant jelly. Gelatina quovis, any

sort of jelly.

Globulus, a little ball. Globuli Gascoigni, Gascoign's ball. Donec globuli evanuerint, until the globules (of quicksilver) totally disappear (so that they cannot be seen even with a microscope).

Gradatim, by slow degrees.

Gratus, grata, gratum, agreeable, pleasant. Ad gratam aciditatem, so as to make it pleasantly acid without being too sour. In quovis grato vehiculo, in any agreeable vehicle.

Gutta, a drop. Guttæ, drops. Guttas, drops.

Guttatim, drop by drop.

#### H.

Hac, this. Hac nocte, this night. Hanc, this. Sumat hanc, let him take this. Hactenus, hitherto, heretofore, up to the present day.

Harum, of these. Harum pilularum sumat tres, of these pills let him or her take three.

Haustus, a draught.

Hebdomada, a week.

Heri, yesterday. Ut heri, as yesterday.

Hesternus, of yesterday. Hesterna nocte, last night.

Hirudo, a leech. Hirudines, leeches.

His, in these, to these. His adde, add to these.

Hora, an hour. Horæ, of an hour. Horæ (plural) hours.

H.S. (horâ somni), at the hour of rest.

H.S.S. (horâ somni sumendus), to be taken at bedtime. Hora decubitus, at the hour of going to rest, bedtime.

Horâ vespertinâ, in the evening.

Horæ unius spatio, in the space of one hour. Horæ 1, horæ quadrante, quarter of an hour.

Horis intermediis, at intermediate hours, when two medicines are to be taken. Horis intermediis means that one is to be given exactly at midtime from the other: suppose a draught is ordered (to be taken every six hours), and a powder horis intermediis, that is every six hours intermediately, then a draught will be taken at six o'clock and at twelve, and a powder at three and at nine.

Hujusmodi, of this sort, like these.

H. p. n., Haustus purgans noster, a formula of purging draught made according to a practitioner's own private Pharmacopæia, and is prepared so as to keep a long time without spoiling, and thus avoid the trouble of preparing it every time a draught is wanted. Mitt. H. p. n. 3ij ad ij Vices c. m. s. Mitte Haustus purgantis nostri uncias duas, ad duas Vices cras mane sumendus; send two ounces of our purging draught, to be taken to-morrow morning, at twice, that is, half at first, and the remaining half in an hour if the first do not operate.

I.

Idoneus, proper, appropriate.

Idem, eadem, the same. Ejusdem, of the same, the genitive case of idem.

Imponatur (sing.), let there be put on-nantur (plural).

Imprimis, first.

In, in. In die, in a day.

Indies (an adverb) every day, daily.

Indicaverit, shows, indicates.

Infusio, infusum, an infusion.

Infunde, infundatur, infuse.

Inter, between.

Injectio, injection.

Inquietudo, restlessness. Urgente inquietudine, if restless.

Injiciatur, throw in, throw up. Injiciatur enema, let a clyster be administered.

Injiciendus, injiciendum, to be administered.

Instar (an adverb), as big as. Sumat molem instar nucis moschatæ, the bigness of a nutmeg to be taken.

Intermedius, intermediate.

Internus, the inner side.

J.

Jam, already. Jampridem, jamdudum, some time ago, heretofore.

Jugulum, the throat.

Jusculum, broth. Jusculum ovillum, mutton broth. Jus bovinum, beef tea. Juxta, near to.

L.

Lac, milk. Lactis, of milk. Lacte, in milk.

Lævigatus, levigated.

Lana, flannel. Lana nova, new flannel.

Languor, faintness, lowness. In languoribus, in the fainting fits, when low and faint.

Latus, the side. Lateris, of the side. Lateri, to the side.

Latus dolens, the pained side. Lateri dolenti, to the pained side.

Latus, lata latum (adjective), broad.

Lectus, a bed. In lecto, in bed.

Liber, a book.

Libra, a pound. Libris, libras, pounds.

Linteum, lint; also linen.

Liquesco, to liquefy, to melt. Donec liquiescat, till it melts.

Liquidus, liquid. Sedes liquidæ, loose stools. In quovis liquido, in any

Londinensis, of London. Pharmacopæia Londinensis, the London Pharmacopæia.

Lumborum, the loins.

Libet (a verb impersonal), it pleases. Ad libitum, just as you please.

M

Magnus, magna, magnum, large. Magnum cochleare, a tablespoonful. Major, greater, larger. Cochlearia duo majori, two tablespoonfuls.

Maximus, the greatest. Maximâ curâ, with the greatest care.

Maximè, chiefly.

Malleolus, the ankle. Malleolus internus, the inner ankle.

Manè, in the morning. Manè primo ; valde mane, very early in the morning.

Manus, a hand. Manu calefacta, with a warm hand.

Massa, a mass. Massa pilularis, a mass fit for forming into pills.

Matutinus, in the morning or forenoon.

Mediocris, middle-sized. Pilulæ mediocres, middle-sized pills. Cochleare mediocre, a dessertspoonful, a pap-spoonful, or a child's spoonful. Mediocris also means indifferent, as to quality.

Medius, middle. Media nocte, in the middle of the night.

Melior, melius, better.

Minatur, minaretur, threatens. Minante, threatening.

Minimus, very small. Cochleare minimum, a teaspoonful.

Minutum,1 a minute.

Misce, mix. Bene misceatur, let it be well mixed.

Mite, send.

Mittatur (singular), let it be sent. Mittantur (plural), let them be sent.

Mittatur sanguis, take blood away; i. e., bleed the patient.

Mistura, mixtura, a mixture.

Mitigatio, mitigation, alleviation. Donec dolor is mitigatio sit, until the pain is easier.

Mitigatus, a, um, mitigated, lessened.

Modicus, middle-sized.

Modus, a manner. Modo præscripto, in the manner directed.

Moles, a mass, a lump, a piece. Sumat molem instar nucis moschatæ, let him (or her) take the bigness or size of a nutmeg.

Mollis, molle, soft.

Molestus, troublesome. Molestor, to trouble, to be troublesome. Molestante dolore, when the pain is troublesome. Molestante tussi, when the cough is troublesome.

Mora, delay. Sine morâ, without delay.

Mos, moris, manner. More solito, in the usual manner; also, in the same manner as I am in the habit of prescribing it to other people.

Mortarium, a mortar. Mortario aheneo, in the brass mortar. Mortario marmoreo in the marble mortar. Mort. vitreo, in the glass mortar.

N.

Narthecium, a gallipot.

Nates, the buttocks.

Ne, lest, also, do not; as, ne tradas sine nummo, do not deliver the medicine without the money.

Necnon, also.

Niger, nigra, nigrum, black.

Ni, nisi, unless. Nihil, nothing.

Nisus, an endeavor, an attempt, a straining, a motion, a straining to vomit, or go to stool.

Nimis, nimium, too much.

Nodulus, a little knot. Nodulo ligati, tied up in a piece of clean rag.

Nomen, nominis, a name. Signetur nomine proprio, write its common name upon the label.

Novem, nine.

The word minutum, for a minute, is very barbarous Latin; we believe there is no such word; but the right Latin for a minute, Sexagesima pars horæ, is as long and as tiresome to write as "Semivitreous oxide of lead" for the simple word "Litharge."

Nonus, the ninth.

Novus, nova, novum, new.

Novissime, very lately, the last of all.

Nocte, at night. Noctes, nights. Nocte maneque, night and morning. Alternis noctibus, every second night.

Nuper, lately. Nuperrime, very lately.

Nucha, the nape of the neck. Nuchæ, to the nape.

N.M., Nux moschata, a nutmeg. Sumat magnitudinem nucis moschatæ, take the bigness of a nutmeg.

#### Numeri. Numbers.

1. or j. unus, una, unum, one. unius, of one.

2. ij. duo, duæ, two.
duorum, of two.
duobus, in two, to two.

3. iij. tres, tria, three.
tribus, in three, to three.
trium, of three.
ter, three times.

4. iv. quatuor, four.
quartus, a, um, fourth.
quater, four times.

5. v. quinque, five. quintus, fifth.

vj. sex, six. sextus, sixth. 7. or vij. septem, seven.
septimus, seventh.
septimana, or,
7 mana, a week.

8. viij. octo, eight. octavus, eighth.

9. ix. novem, nine. nonus, ninth.

10. x. decem, ten. decimus, tenth.

xj. undecim, eleven.
 xij. duodecim, twelve.

20. xx. viginti, twenty.

24. xxiv. viginti quatuor, twenty-four.

0.

Obstante, hindering, preventing. Occasio, occasion, opportunity.

Octo, eight.

Octavus, eighth. Octava quaque horâ, every eighth hour.

Olim, some time ago. Olla, a pot, a gallipot.

Omnis, all. Omni mane, every morning. Omni horâ, every hour. Omni bihorio, every two hours. Omni nocte, every night. Omni ¼ horâ, Omni quadrante horæ, every quarter of an hour. Tere omnia, rub all together.

Omninò, quite, wholly, entirely.

Optimè, very well, as well as possible.

Optimus, ma, mum, best.

Opus, need, occasion. Si opus sit, or fuerit, if it be necessary.

Ovillum jusculum, mutton broth.

Ovum, an egg. Vitell. ovi, the yolk of an egg. Ovorum, of eggs:

P.

Pannus, a rag. Pannus linteus, a linen rag. Pannus laneus, Pannus è lanâ, a piece of flannel.

Paroxysmus, a paroxysm, a fit, a convulsion fit.

Pars, a part. Partes, parts. Parti dolenti, to the pained part.

Partitus, parted. Partitis vicibus means that you are not to give a medicine all at once, but divide the dose according to the directions most commonly previously given; for example, if a purging or emetic draught, half or a third (as the case may be) to be taken at first, and the other half or third at a certain distance of time, if the former quantity be not found sufficient to produce the desired effect.

Parvus, little. Cochleare parvum, a teaspoonful.

Parum, a little. Parumper, a little.

Pauculum, pauxillum, paululum, a little.

Pectus, the breast. Pectoris, of the breast.

Pediluvium, a bath for the feet.

Per, by, or through.

Pergo, to go on with. Pergat in usu medicinarum, continue the medicines as before.

Peractus, { completed, perfected, quite done, gone through with; as, Peractâ Perfectus, { operatione emetici, after the emetic has quite done operating.

Perfricetur, let it be rubbed. Perfricandus, to be rubbed. Pensus, weighed. Accurate pensi, accurately weighed.

Perpetuus, perpetual. Fiat perpetuum, keep it open (when it refers to a blister).

Pluvialis, also pluviatilis aqua, rain-water.

Pharmacopæia, the dispensatory.

Pollex, the thumb. Pollex pedis, the great toe.

Pomeridianus, postmeridianus, in the evening or afternoon, time of the day.

P. R. N., Pro re natâ, occasionally, according as circumstances may occur, according as the symptoms may require.

Poculum, a cup.

Pomum, an apple. Pomi, of an apple. Pone, behind. Pondere, by weight.

Porro, moreover. Post, after. Postea, then, afterwards.

P. M., Post meridiem, afternoon, in the afternoon, after twelve o'clock at noon.

Potus, drink, any kind of beverage.

Postulet, postulent, may require, demand.

Præcipue, especially.
Præparatus, prepared.

Præparo, to prepare. Præparentur, let them be prepared.

Primus, ma, mum, the first. Primo, first of all. Primo mane, very early in the morning.

Prior, prius, the former, the first.

Priusquam, before that.

Pro, for. Pro re natâ, p. r. n., occasionally, etc. Pro ratione, according to, or in proportion to; as, pro ratione ætatis, according to the age of the patient.

Proprius, a, um, proper. S. N. P., Signetur nomine proprio, mark it with its proper direction.

Pruritus, an itching. Pruriens, itching. Dolichos pruriens, cowhage.

Psora, the itch.

Pulvis, a powder. Pulveres, powders. Pulveribus, in powders.

Purificatus, a, um, purified.

Pyxis, pyxidis, a pill-box, or lozenge-box.

Q.

Quadrans, quadrantis, quadrante, quarter. Omni quadrante horæ, every quarter of an hour.

Quacum, with which.

Quamprimum, as soon as possible, without the least delay.

Quartus, a, um, the fourth.

Quâqua, every. Quâvis (fœm), with any.

Quater, four times. Quatuor, four. Quarta pars, a fourth part.

Quaque (at the end of any Latin word), and. Quem, quam, quod, which (the accusative case). Qui, quæ, quod, which (the nominative case). Quibus, to which, with which.

Quibusdam, to or with some. Cum guttis quibusdam, with a few drops.

Quilibet, quælibet, quodlibet, gen. Cujuslibet, abl. Quolibet, any.

Quiescat, goes to rest, is easier.

Quinque, five. Quintus, a, um, the fifth. Quinquies, five times.

Quinquina (cinchona), Peruvian bark.

Q. S .- q. s., Quantum sufficiat, as much as may be sufficient.

Quorum, quarum, of which. Quos, quas, which. Quocum, quacum, with which. Quovis, with any.

R.

Ratio, a reason, also a proportion. Pro ratione ætatis, according to the age of the patient. Pro ratione doloris, according to the urgency of the pain.

Raucedo, hoarseness.

Recipe, take. Recipe (taken substantively), a prescription.

Regio, a region (an anatomical term for certain parts of the body); as, regio epigastrica, the epigastric region; regio lumborum, the region of the loins; appl. emplastr. regioni umbilicali, to the umbilical region or parts in the neighborhood of the navel.

Redigo, to reduce. Redige, reduce. Redigetur, may be reduced. Redigatur,

let it be reduced.

Redactus, a, um, reduced. In pulv. redact., reduced to powder. Refrixerit—pl. int—the subjunctive future of refrigesco, to cool.

Reliquus, a, um, the rest, the remaining part.

Remedium, a remedy. Continuandur remedia, go on with the same medicines as before.

Repetatur, let be repeated, repeat.

Repetendus, to be repeated.

Respondeo, responderit, shall have answered. Donec alvus ad sedes ij vel iij responderit, until two or three stools shall have been procured.

Ribes, currants. Gelatina ribesiorum, currant jelly.

Ruber, rubra, rubrum, red. Rubus idæus, raspberry.

Retinendus, to be retained or kept.

S.

S.V.R., Spiritus vinosus rectificatus, rectified spirit of wine.

S.V.Ten., or tenuis, proof spirit.

Sæpe, often; sæpius, oftener; sæpissime, very often.

Saltem, at least.

Sanguis, blood-inis, of blood. Sanguinis missura, blood-letting.

Saphena vena, the ankle vein.

Satis, enough; quantum satis, a sufficient quantity.

Scapula, the shoulder blade. Inter scapulas, between the shoulders.

Scilicet, to wit, namely.

Scrobiculus cordis, the pit of the stomach.

Secundus, a, um (adjective), second. Secundum (preposition), according to.

S.A., Secundum artem, according to art; that is, you are to use your own ingenuity to do it in the most proper and scientific way.

Sed, but.

Sedes, a stool—plural, stools.

Semi, or semis, half. Semihora, half an hour. Semi drachma, half a drachm. Sesqui, one and a half, as sesquihora, an hour and a half. Sesquiuncia, or sescuncia, an ounce and a half. Sesquidrachma, a drachm and a half. Remember well to attend to the difference of these two words, for

many young men, by not knowing that sesqui means one and a half, but confounding it with semi, have made bad mistakes.

Semper, always.

Semel, once.

Septem, seven.

Septimana, a week, seven days. Septimus, seventh.

Sequens, following.

Serum lactis, whey. In sero lactis vinoso, in wine whey.

Serum is also the watery part of the blood which separates from the red part, or crassamentum, on standing until cold.

Sex, six; sextus, sixth. Si, if. Sive, or; whether.

Signatura, a label or direction.

Signetur, let it be marked, directed, written upon.

S.N.P., Signetur nomine proprio, mark it with the name it is usually known by.

Simul, together; as, terantur simul, let them be rubbed together. Simul ac, at the same time that.

Sine, without. Sine morâ, without delay.

Singultus, hiccup.

Singulus, a, um, each; in singulus, in each; singulorum, of each.

Sinister, tra, trum, the left. Auri sinistro, to the left ear.

Sitis, thirst; si sitiat, if thirsty.

Solitus, accustomed. Solus, alone; only.

Solutus, a, um, dissolved, also loosened; as, donec alvus soluta fuerit, until a stool is procured.

Solve, dissolve.

Somnus, sleep. Hora somni, at bedtime.

Spina, the spine, the backbone; also, a thorn.

Spissus, thick. Spissitudo, thickness of consistence.

Statim, directly, immediately.

Stent, let them stand. Stet, let it stand.

Sternutatorius pulvis, sneezing powder, snuff.

Stupa, tow.

Sub, subter, under. Sub finem coctionis, when the boiling is almost finished. Sub, prefixed to a word, implies diminution, or a process not completed; also, in many words has the same signification as the termination ish in English words, as sub-niger, blackish, not quite black. Subtepidus, lukewarm. For its meaning when applied to terms of chemistry, as subcarbonas, submurias, the pupil must study his chemical nomenclature.

Subactus, a, um, subdued, dissolved.

Subitus, a, um, Subitaneus, sudden. Subito (adv.), suddenly.

Subtepidus, a little warm, lukewarm.

Subige, dissolve it, make it unite. Subdue quicksilver with lard or balsam of sulphur.

Subinde, frequently, now and then.

Subtilis, subtile, reduced to fine powder. Pulv. subtilissimus, the very finest powder.

Sumat, let him take. Sumatur, sumantur, let it be taken, take.

Sudor, sweat.

Superbibo, to drink after taking anything; as, chamomile tea or warm water after an emetic; or a cup of water or any liquid medicine to wash down a dose of any sort of pills.

Superinfundo, to pour upon.

Supra, above. Supradictus, above mentioned. Syncope, a fainting fit.

T.

Tabellæ, tabulæ, lozenges.

Talis, such. Sumat talem, let him take such a one as this.

Talus, the ankle.

Tam, so. Tamen, yet.

Tactus, the touch.

Tania, the tapeworm.

Tempus, temporis, time.

Tempora, the temples. Temporibus, to the temples. Tempori dextro, to the right temple. Tempori sinistro, to the left temple.

Temperies, temperamentum, temperament, degree of heat.

Tenacitas, tenacity. Ad debitam tenacitatem, of a proper degree of tenacity or consistence.

Teneo, to hold. Tenendus, to be held.

Tenuis, weak, thin, small, slender.

Tepefactus, warmed, made warm.

Ter, three times, thrice. Ter quaterve, three or four times.

Teres, teretis, round, taper; also, teres is a name for the long and round worm infesting the human body, qu. d. vermis teres.

Tergum, the back. A tergo, behind.

Tero, to rub. Tere (imperative), rub. Terendus, to be rubbed. Terantur, let them be rubbed.

Tertius, tertia, tertium, the third.

Testacea, the prepared powders made of oyster-shells, egg-shells, crabs' claws, etc.

Thorax, the chest. Thoracis, of the chest.

Thus, fankincense.

Tinea, capitis, scald head.

Torrefactus, toasted.

Tres, tria, three; tribus, in three, to three.

Triduum, three days.

Trituratio, a grinding. Trituratus, triturated, ground. Tritus, ground.

T.O., Tinctura Opii, what is commonly called Laudanum.

T.O.C., Tinctura Opii Camphorata, Camphorated Tincture of Opium, called, formerly, Paregoric Elixir. This tincture is now called by the British Pharmacopæia, edit. 1867, Tinctura Camphoræ Composita.

Trans, through. Cola trans chartam, filter through filtering-paper.
Tussis, a cough. Tussi molestante, when the cough is troublesome.

U.

Ultimus, ultima, mum, the last. Ultimó præscript, which was last prescribed. Umbilicus, the navel.

Unà (an adverb), together.

Uncio, an ounce. Unciam cum semisse, an ounce and a half.

Undecim, eleven.

Unus, una, unum, one. Unius, of one. Uni, to one.

Urgente tussi, when the cough is troublesome.

Urgeo, to urge, to oppress, to be troublesome or painful.

Usus, use. Pergat in usu remediorum, continue the use of the medicine as before.

Usque, ad, up to, as far as.

Ut, as that, so that; in the same manner as.

Utendus, to be used.

Utatur, let him make use of.

Uterque, utraque, utrumque, both. Utriusque, of both. Utrique, to both, to either. Admoveantur hirundines ij tempori utrique, apply two leeches to each temple.

Utriuslibet, of whichever of the two, or more, the patient likes best.

V.

Vaccinatio, the act of inoculating for the cowpock.

Variola vaccinæ, the cowpock.

Vaccinum lac, cow's milk.

Valde, very, very much.

Valeo, to avail; si non valeat, if it does not answer.

Variola, the smallpox. Varicella, the chickenpox.

Vas, a vessel. Vasis, of a vessel. Vase clauso, in a covered vessel. Agitato

vase, shaking the vessel.

Ve, vel, or; either; -ve is never at the beginning, but at the end of, a word. Vertebræ, the joints of the neck, back, or loins; the vertebræ, altogether, form that column of bones which is called the spine.

Verus, true, real, genuine.

Vena, vein. Vena saphena, the ankle vein.

Venæsectio, bleeding. Fiat venæsectio, bleed him.

V.S.B., Venæsectio brachii, bleeding in the arm. Fiat venæsectio in venâ saphena, bleed the patient in the ankle vein—or, it may be understood, to bleed wherever you can find the best vein at the top of the foot to get blood from.

Vespere, in the evening.

Vespertinus, in the evening, as horâ via, vespertina, at six o'clock in the evening.

Vehiculum, a vehicle; that is, whatever liquid or any other eatable or drinkable we take a medicine in, as barley-water, whey, jelly, or panada, etc.

Viginti, twenty. Vicesimus, vigesimus, the twentieth.

Vinosus, vinarius, of wine. Cyathus vinarius, a wineglass.

Vices, turns; ad duas vices sumendus, to be taken at twice; that is, half to be taken at first, and the other half in some time after.

Vicibus partitis. See Partitus in P.

Vice, in the room of. Vix, scarcely, hardly. Ut vix sentiatur, so that it can scarcely be perceived.

Vitellus, the yolk of an egg.

V. O. S., Vitello ovi Solut"; dissolved in the yolk of an egg.

Vitrum, a glass. Vitreus, made of glass.

Vires, strength; si vires permittant, if the strength will bear it.

Vomitio, a vomiting. Vomitione urgente, when the vomiting is troublesome. Vultus, the countenance.

#### OBSERVATIONS ON THE MANAGEMENT OF THE SICK ROOM.

In the treatment of disease, as much depends on the proper management of the patient, or, as it is usually called, nursing, as on the remedial powers of medicines appropriate to the exigencies of the case. How many, in fact, have owed their lives to the sedulous and skilful attention of their nurse or friends, wholly independent of professional assistance! and, on the other hand, what numbers have been sacrificed to a want of knowledge of the proper government of a sick room, in spite of the most judicious treatment on the part of the physician! This most important subject has been strangely

overlooked by both lecturers and writers on the practice of medicine. We are acquainted with but two treatises on the subject, in our language, that can be referred to with confidence—the general observations prefixed to "A Practice of Physic," by the late Dr. Dewees, and "The Domestic Management of the Sick Room," by Dr. A. T. Thomson, of both of which we shall freely avail ourself in the following pages.

#### VENTILATION IN THE SICK ROOM.

Where it is possible, the room in which the patient is confined should be large and lofty; and in all cases provided with a chimney; the upper sashes of the windows should be capable of being let down, which is not always the case; in a word, the room should be of such a construction as to permit the freest ventilation and renewal of the air without injury to the patient. Fortunately for the comfort as well as for the benefit of the sick, a great change has taken place as regards their treatment in this respect; at one time, and that not many years since, it was considered essential to their recovery that air should be carefully excluded from their apartments, and every means was taken to accomplish this result; but a more rational mode of treatment is now generally adopted, though physicians occasionally meet with individuals who obstinately adhere to the idea that all access of the outer air is injurious to the sick.

The air of a sick chamber soon becomes impure, and must be changed by the admission of fresh air from without, and not, as is too frequently attempted, by the use of disinfecting agents in the chamber itself; which, although they may mask or destroy offensive odors, only tend to vitiate the air still more. It may be confidently asserted that no disinfecting or fumigating agent is capable of rendering the air of a sick chamber so pure and salutary as it can be made by proper attention to cleanliness and free ventilation.

This latter can in most cases be accomplished without risk to the patient, by proper management, and should never be neglected. It should be regulated by the season of the year, the state of the atmosphere, and the character of the disease. In winter, in consequence of the draught occasioned by the fire, a renewal of the air of the room takes place to a greater or less degree; but a sick chamber should, if possible, be heated by an open fire, and not by a stove, as the air is thus more rapidly changed, and the unpleasant emanations caused by a large surface of heated iron are obviated. The state of the weather should also influence the mode of ventilation, for it must be obvious that, if it is damp, it would be injurious, if admitted into a sick room directly or in large quantities. The character of the disease should always be considered; as a general rule, all acute affections require more ventilation than those of a chronic nature, except such as are attended with offensive discharges. No precise rules, however, can be laid down on the subject of ventilation as respects the mode in which it is to be attained; this must, in a great measure, be left to the discretion and good sense of the attendants.

Ventilation is especially required in infectious and contagious disorders, as, in close, ill-ventilated apartments, the power of infection is greatly augmented, and is, as it were, concentrated. The infectious miasm is greatly weakened or diluted by a free access of air, and its powers much augmented by a damp, close atmosphere. Next to ventilation, and of equal importance, is the

#### TEMPERATURE OF THE SICK ROOM.

There is a very general, but erroneous, opinion among nurses, that a sick person should be kept very warm, to prevent his taking cold, and, consequently,

the temperature of the chamber is maintained at a fever heat, to the great inconvenience and positive detriment of the patient. The best general temperature of a sick room is from 60° to 70° F., to be regulated by the thermometer rather than by the sensations of the sick person, as these are oftentimes morbid and deceptive, but at the same time are not to be wholly disregarded; thus, where the temperature is agreeable to the sensations of the attendants, and the patient, notwithstanding, complains of chilliness, it should be increased a few degrees.

In febrile complaints, nothing conduces more to the comfort, and nothing is more proper than a reduced temperature, as it materially aids the physician in relieving the morbid heat of the patient's body, and the increased action of the arterial system. Thus, in a patient in the hot stage of fever, it is suprising to see the almost immediate relief experienced by the admission of cool air into the chamber; a tranquil state ensues, replacing his former jactitation and restlessness; his skin becomes cooler; his respiration, from being hurried and laborious, becomes calm and gentle; his pulse less frequent and active; and, in many cases, a placid and refreshing sleep comes on; or he breaks out into a general perspiration.

Where, on the other hand, the temperature of the room is maintained at a temperature equal to, or nearly equal to, that of his body, every morbid symptom will be much aggravated, and his condition rendered still more deplorable. But, whilst a moderately depressed temperature is beneficial in many diseases, it exercises a decidedly injurious effect in others; in affections of the lungs, even a slight change in the thermometer will often cause

an attack of cough and an augmentation of the symptoms.

During convalescence, the air of a sick chamber should be frequently renewed, and the temperature kept at about 60° to 65°; but no sudden transitions permitted, as nothing is more essential than a guarded care against

extremes and rapid changes of heat and cold.

It is of equal importance that a proper attention should be paid to the temperature of the patient as regards the amount of his covering, for constant errors are committed by nurses in this respect. When a sick person complains of feeling cold, it is always proper to provide him with additional covering; but, if reaction takes place, and heat of skin ensues, it is seldom thought advisable by the attendants to remove any of the now superfluous clothes, "as he might take cold;" the consequence is that a febrile condition is produced, with a dry, hot skin, without a sign of perspiration. If some of the bedclothes be removed, however, this will soon make its appearance, to the great relief of the patient. Every nurse should be aware that there is a sweating temperature, and that, when this is transcended, perspiration will not take place, and will cease if it be present. Attention to a simple rule on this point will obviate any difficulty—to add covering when the patient complains of chilliness, and to remove it when he experiences too much heat.

#### CLEANLINESS IN THE SICK ROOM.

Nor is attention to cleanliness of less importance, for, although much is accomplished, in preventing a foul and offensive atmosphere, by proper ventilation, this is not sufficient, and is not always practicable. The observance of this is one of a nurse's most important duties; and she should be careful to remove anything that is capable of emitting an unpleasant smell, or of giving out an injurious gas, as speedily as possible. All evacuations are to be taken from the room at once, and never suffered to taint the air, under any pretence whatever. The bedclothes, as well as the personal clothing of the patient, should be changed as frequently as circumstances will allow, and no dirt suffered to accumulate in any part of the room. All articles used by the

patient in taking his food, medicine, etc., should be cleansed as soon after they have been employed as possible. No slop-basin or slop-pail should ever be allowed to remain in a sick chamber.

A patient's face and hands should be frequently wiped with a towel moistened with cold water, or vinegar and water, in all cases in which there is no danger of causing chilliness, and he should be allowed to rinse his mouth and clean his teeth, several times a day; when he is unable to perform the latter office for himself, it should be done by the nurse. This is very grateful to patients in fever, when the tongue is dry or coated with fur or tenacious mucus.

Whilst every means of insuring cleanliness in the sick room should be practised, it is to be accomplished with as little noise and bustle as possible; otherwise it becomes annoying and injurious to the patient. It is not requisite that the room should be swept, nor that the furniture should be dusted, every day. What is done should always be performed in the morning, as the patient is usually better able to bear the little noise and bustle necessarily attendant on these operations, after a night's rest and quiet. When the carpet is swept, it should be sprinkled with moist tea leaves a short time previous, to prevent dust from rising.

# QUIET IN THE SICK ROOM.

In most diseases, and especially in those attended with fever, nothing is more annoying and distressing to the patient than noise; hence, the utmost quiet should be strictly maintained. All unnecessary conversation should be avoided, as a sick room is an unfit place for gossiping. If conversation be carried on, however, it should be in such a tone of voice that the patient may comprehend it, for nothing is more injudicious or hurtful to a sick person, especially if of a nervous temperament, than the mode usually adopted by the attendants of conversing in whispers, as it leads him to imagine that it refers to something they are afraid or unwilling to communicate to him, and hence, he fatigues himself by endeavoring to ascertain the purport of conversation, or gives way to despondency; on this account, it is better that all talking that is required should be carried on in a moderate tone of voice, and not in whispers, as much less likely to disturb the patient or to excite his attention.

In some cases, especially in those of a nervous character, on the contrary, cheerful conversation is of much benefit to the patient, provided it is not continued so long as to fatigue him.

A great fault in many nurses is being always in a bustle, "putting things to rights," or "fixing the room," thus constantly disturbing the patient, and preventing him from sleeping; nothing is more annoying to a sick person than this bustle or this constant recurrence of noises, which, however insignificant in themselves, render him nervous and impatient, from their repetition. Most of these may be prevented by an attention to order and method on the part of the nurse.

One common source of annoyance to a sick person arises from a frequent opening and shutting of his door, more especially if the lock or hinges are not in good order. In many cases, the door may be kept permanently open, and the patient protected from the light and draught of air by means of a screen. Where this cannot be done, the door should never be opened, except when it is absolutely required, and it is by all means to be avoided whilst the patient is asleep. One means of avoiding a too frequent opening and shutting of the door is to permit no person to enter the room except such as are required to assist in attendance on the patient.

#### EXAMINATION AND PRESERVATION OF THE EXCRETIONS.

This is of much importance in many cases, as it enables the physician to judge with some degree of certainty of the condition of the patient and of the progress of the disease. It should never be trusted to a nurse, as it is very rarely that their account can be depended upon. In all cases where the physician deems it necessary, the nurse should be directed to preserve the excretions for his inspection; but they should never be retained in the sick room.

### ADMINISTRATION OF MEDICINE, ETC.

However skilful the physician may be, and however judicious his treatment, it is rendered perfectly nugatory, if the remedies he orders are not administered according to his directions, as the cure of the patient depends in many cases on the regular application of the prescribed remedies. It is, therefore, the duty of the attendant on the sick to follow implicitly the directions of the physician, as well in exactly complying with his orders, as in doing nothing that she has not been ordered to do. At the same time, there are exceptions to this rule, in which a suspension of the remedy, or a deviation from the order of the physician, is not only allowable, but is absolutely required. Thus, from idiosyncrasy or some other cause, the remedy in the doses ordered may have no effect, or may produce one widely different from that intended or expected. In such cases, it is evident that a strict adherence to the directions of the physician would be productive of evil; but he should be immediately apprised of the circumstance.

Nurses, however, more frequently commit errors in the administration of drinks and nourishment than in that of the prescribed medicines. In the former, they are apt to imagine that they are as good, if not better judges than the physician, and, in consequence, thwart the best directed treatment. The nurse should as scrupulously adhere to the directions of the physician as regards drink and nourishment, as with the doses and times of administration of medicines; nor should the exhibition of food or drink be left

to her discretion more than that of remedies.

One error is very common, that of giving them too largely or too frequently; this should be guarded against, as far as possible, by the physician prescribing the quantity and quality of food or drink, as well as the times of giving it, with as much precision as he prescribes doses of medicine and the periods of their exhibition. In fact, in the treatment of the sick, as little as possible should be left to the discretion and judgment of the nurse or attendant of the patient.

#### FURNITURE OF A SICK ROOM.

Where a disease is of a serious character, or appears likely to be protracted, it becomes of importance that the chamber the patient is to occupy, if circumstances will admit of it, should be selected and arranged in such a manner as will most minister to his comfort, and aid his recovery. It should, if possible, be large and airy, with a northern aspect, so as to avoid the glare of the sun; but, in towns, a room exposed to the sun is preferable to one fronting on the street, in which the patient is constantly disturbed by the noise of passing vehicles, etc. As mentioned under the head of ventilation, it should always be provided with an open chimney, that a due circulation of air may take place.

No article of furniture that is not required should be suffered to remain in the room, as the dusting and arranging it will cause unnecessary noise and bustle, annoying to the patient. Two tables are wanted in most cases: one of a small size, to stand by the side of the bed, to hold such articles as are in immediate use, as the medicines he is taking, the spoon or glass in which they are administered, etc.; but nothing should be permitted to remain upon it, except articles frequently wanted. The other table, which should be large, and adapted for the reception of medicines not in immediate use, such as spare spoons and glasses, should contain a drawer, supplied with a roll of old and soft linen, a sponge, scissors, a spatula, a roll of muslin and one of flannel bandage, some lint, some adhesive plaster, a pincushion well supplied with pins; in fact, all such articles as may be needed. It may appear unnecessary to allude to these things; but it has happened to every medical man, to observe that, without such previous preparation, much of his time is wasted in the search for what is wanted.

Where a second table is inconvenient, the top of a chest of drawers can be employed instead, for bottles, glasses, etc.; and one drawer should be appropriated to the reception of the various articles above enumerated; another should contain towels, a free supply of which should always be at hand; but none are ever to be used for the reception of dirtied articles of clothing, which should always be at once removed from the room. The washstand should be provided with additional basins, one of which should be of small size; and a large pitcher of water should be always kept in the room.

If there is a looking-glass in the room, it should be placed in such a position as not to be in view of the patient. A large sofa, or a small additional bed, is constantly required, as in certain cases where the patient is unable to sit up, he finds much comfort in being removed to it; it is also required when his bed is to be made. An invalid or easy chair is also productive of much benefit in certain cases; and where it can be commanded, it should be of such a construction as will admit of changes, so as to vary the position of

the patient at pleasure.

What is called a French bedstead, without curtains, is the best adapted to the sick room. The four-post bedstead, when used, should not be furnished with curtains, as these tend to exclude the air, and to retain smells and a vitiated atmosphere. In all cases, a mattress is preferable to a feather-bed; it may be placed over the latter, when greater softness is required. The pillows should be elastic, but so firm as not to permit the head of the patient to sink in them, as this prevents coolness and a due circulation of air. The bed-coverings should be as light as is consistent with warmth and comfort; hence, Marseilles quilts should not be used, as from their weight they oppress the patient, without affording as much warmth as a light blanket.

The change of bedclothes, and shaking up the bed or mattress, must be regulated by the character of the disease and the condition of the patient. In febrile complaints, it should be done, if the strength of the patient will admit, twice in the twenty-four hours. When there is much restlessness, it will be found advantageous to move him night and morning to a large sofa, or to another bed; this tends to promote sleep, and to insure a proper airing of the beds. When he is thus moved, the clothes of the bed he has left should be turned down and fully exposed to the air, which will render so frequent a change of the sheets less necessary than would otherwise be required. When there is only one bed, and in febrile diseases, the sheets which have been used at night are to be replaced by others in the morning, and freely exposed to the air during the day, and again used at night. When the patient is too much debilitated to be moved from bed to bed, he should be merely removed to the other side of his bed, and the one he has left properly arranged by changing the linen, beating up the bed, etc.; but these changes are never to be made whilst he is in a perspiration.

If a fire in the room is required, it should not be made use of to prepare

the food or drinks of the patient; this should be done elsewhere, as well to avoid the smell emitted by the heated articles, as the noise and bustle caused in their preparation.

# PROPER USE OF UTENSILS FOR EVACUATIONS, ETC.

As it is of the utmost importance to the patient that he should be spared all unnecessary fatigue, some precautions are to be used to prevent this during his evacuations; and one of the duties of a nurse is to enable him to perform those offices with the least expenditure of strength. When the patient is feeble, he should never be allowed to rise to fulfil the calls of nature, and, therefore, a bed-pan and urinal should always be provided; by means of these, the evacuations can be performed with ease, and without exertion. Many persons, it is true, have an aversion to using them; but this difficulty can generally be overcome by a proper representation of their advantages. One of the objections commonly made is that the use of a bed-pan gives them pain in the back; and this is often the case where the patient is not properly supported; but can always be prevented by placing a pillow in the hollow of the back, before the pan is used.

In the case of giving drinks or nourishment, much unnecessary fatigue may be spared to the patient. Owing to the form of the vessels usually employed to administer drinks, without the sick person is raised in bed to receive them, much of the fluid is apt to be spilt on the bedclothes, to his great discomfort. Hence, a tumbler, teacup, or bowl should never be employed for this purpose, where the patient is too feeble to raise himself without inconvenience. The sick cup, as it is called, should therefore be employed for this purpose, as it spares all fatigue, and prevents any spilling of

fluid on the patient or on the clothes.

When the medicine or food is taken in spoonful quantities, and in cases of nauseous medicines to be administered to children, the medicinal spoon will be found very useful. This is a spoon with a hollow handle, with an opening at its extremity; the bowl is provided with a hinged lid, but is open at the apex. When a fluid is poured into it, and the lid closed, the pressure of air at the opening at the end of the bowl will prevent any of the fluid escaping, as long as the orifice at the end of the handle is closed, but is projected with some force when this opening is free. By means of this contrivance, medicine or food may be conveniently administered without the patient being obliged to be raised in bed, or in spite of resistance on the part of a child.

## DOSE OF MEDICINES.

The doses of medicinal substances, being specific as regards each other, can only be learned by experience; but their remedial or active powers do not always increase with an increase of the dose: thus, if a purgative dose of calomel be ten grains, an increased quantity of the medicine will not induce an equivalent increase in the purgation, though it may cause other consequences. The dose in which a medicine is given often determines its specific action; two grains of ipecacuanha will usually quiet the stomach, or act as a diaphoretic, whilst thirty will produce active emesis; and, in like manner, almost every medicine displays different powers, according to the dose in which it is administered.

Dr. Paris states "that powerful doses are disposed to produce local rather than general effects." This is proved by experience, in many cases, but does not hold good in all: thus, many of the active poisons cause general effects in both large and small doses, and their virulent action is in general proportionate to the quantity taken. In most of what are termed the alterative

medicines, however, the alterative action is only displayed when they are administered in small, but long-continued doses, and does not take place when they are taken in such quantities as to excite much local action. It is erroneous to suppose that a medicine is devoid of power, or does not exert an influence on the system, because no marked effect immediately follows its exhibition; for, as is observed by Dr. Barlow, "it is very possible that practitioners often err, especially in the treatment of chronic maladies, from requiring an obvious effect from each dose administered; where it is ascertained that a medicine actually possesses inherent powers, the slow and almost imperceptible exercise of these powers should not be despised. There is often more wisdom in seconding the efforts of nature than in superseding them." In fully admitting the truth of this remark, we are far from advocating the doctrine of Hahnemann, or his invisible doses; nor does it, in fact, accord with his views, for he gives a long catalogue of symptoms, caused by the administration of the minutest quantity of the articles of his materia medica.

So many circumstances influence the effects of medicines, that it is almost impossible to say what dose will produce identical effects in different individuals; but it has been sufficiently ascertained that, in the generality of patients, we may reasonably expect certain results from certain doses. The circumstances that influence the action of medicines, and the doses in which they are to be given, are:—

AGE.—This exercises much influence; the young require smaller doses of a medicine to produce the desired effect than an adult; and the aged, although less susceptible to impressions than formerly, are unable to bear any forcible shock on their system. Various formulas or tables have been published for the graduation of doses to the respective ages; but none of them are as generally adopted as that attributed to Gaubius, which is as follows:—

Dose for a person	in adult age being		drachm or	1.
That for a person	from 14 to 21 year	s would be	2 scruples or	3.
"	7 to 14	" ]	drachm or	10.
"	4 to 7	"	scruple or	3.
"	4	" 15	grains or	1.
66	3	" 10	grains or	6.
"	2		grains or	
"	1	. " {	grains or	2.

This table, although mainly correct, is often found to be erroneous, when applied to particular cases. Dr. Paris, in his Pharmacologia, gives a formula devised by Dr. Young, which is simple and has been found to be generally correct; this is:—

For children under twelve years, the doses of most medicines must be diminished in the proportion of the age, to the age increased by twelve; thus:—

At two years to 
$$\frac{1}{7}$$
, viz.:—  $\frac{2}{2+12} = \frac{1}{7}$ ;  
At 21 the full dose to be given.

But no scheme can be devised, founded on age alone, to which there are not many exceptions. Thus, children require proportionably larger doses of castor oil or calomel to affect them than adults, whilst, and especially when very young, they are exceedingly susceptible to the action of opium and its preparations.

Sex.—It is generally admitted that females require smaller doses of medicines than males, and, as a general rule, this may be correct; but so much

depends upon habits of life, temperament, etc., that the exceptions are almost as numerous as the examples.

Temperament also exercises much influence on the doses of certain articles of the materia medica; an individual of a nervous temperament is unable to bear with impunity doses of opium that scarcely act on the phlegmatic;

the sanguineous are readily affected by the action of stimuli, etc.

IDIOSYNCRASY, or constitutional peculiarity, has more influence than either sex or temperament on the action of medicines. Some of these anomalies are very striking, and almost incredible, and evince the necessity of particular inquiries being made by the physician of every patient with whose constitution he is unacquainted. In some cases, opium, or any of its preparations, cannot be administered without producing the most distressing symptoms; in others, the smallest doses of calomel will cause salivation; whilst in others again it may be profusely given without inducing any effect on the salivary glands. In some persons, the mere vicinity to the poison oak (Rhus radicans) will bring on an unpleasant inflammation of the skin; whilst on other individuals this plant has no action whatever. It is often found that copaiba will cause a peculiar eruption, and the smell of ipecacuanha induce a distressing dyspnea. So tartar emetic will be productive of ptyalism in some individuals even when applied to the surface of the body; blisters of cantharides will cause strangury in some patients, etc. In fact, these idiosyncrasies are so numerous that it would require a volume to notice in detail those already recorded.

Habit exercises an equal influence with idiosyncrasy in modifying the action of medicines. The usual consequence of a long-continued use of any remedial or stimulating substance, is to diminish the susceptibility of the organs on which it acts to its impression. Hence, to obtain its effects, it must be given in gradually increased quantities. In many cases, however, instead of a diminished, an increased action is caused by repetition of certain

substances.

The influence of habit, in diminishing the susceptibility of the system to stimuli, is liable to fewer exceptions as regards vegetable than mineral substances, as may be daily remarked in the use of opium and tobacco. Dr. Christison accounts for this effect of habit in diminishing the influence of vegetable substances, by an increased power of the stomach in decomposing them; but it must also be attributed to a diminished susceptibility in the nervous system to their influence. But mineral medicines appear, in almost every case, to act with increased power by repetition, though the converse has been observed in some cases.

STATE OF THE SYSTEM.—It is well known that, in certain deviations from a healthy or normal condition, a remarkable change is often observed in the action of remedies on the system. Thus, in severe pain, opium can be administered in doses that cannot be borne with impunity in a state of health; but this is still more the case in tetanus, in which scruple doses, frequently repeated, have been administered without producing any marked effects. This modifying influence of disease has been noticed with regard to many other remedies, as in mercury, which can be given in large and repeated doses, in a febrile condition, without causing salivation. Where there is a diminished sensibility of a part, or a comatose condition, the pain, or irritation caused by the application of stimulating or vesicating articles, not being felt by the patient, there is a risk of inducing a sloughing and destruction of the part to which they are applied, if care be not taken to remove them in time; so, also, the application of ammonia to the nostrils, to relieve fainting, has caused violent irritation, and even inflammation of the trachea, the patient being unable, from his condition, of appreciating or expressing his sensation. Dr. Christison notices several fatal cases of bronchitis from this cause.

TIME of DAY at which medicines are administered also influences their action on the system. As a general rule, no medicine should be given soon after a meal, though, in the case of some of the irritants, as arsenic, corrosive sublimate, iodine, etc., it is often found most expedient to administer them whilst the stomach is filled with food, to avoid their local action on that organ. Dr. Paris observes, under this head: "Evacuating medicines ought to be exhibited late at night, or early in the morning; thus, substances of tardy operation, as calomel and the resinous purgatives, should be given at night, while saline purgatives, senna, etc., may be given in the morning. It would seem that during sleep the bowels are not so irritable, and, consequently, not so easily acted upon, which allows time for the full solution of the substance." In all cases, the exhibition of purgatives should be so timed that their operation may take place during the day, so as to avoid an undue disturbance of the patient at night. Other directions will be found in a subsequent part of the work.

Numerous other cases exercise much influence on the action of medicines, as climate, the imagination of the patient, the tissue or organ to which they

are applied, etc.

Nor should the variable activity of a medicine be overlooked; this has occasioned more accidents than is generally supposed. Some remedies, and generally those of a vegetable nature, lose much of their activity by age, and, therefore, require to be given in large doses to produce the desired effect; hence, where a physician has been induced to increase the usual dose of some article, which in a recent or unaltered state is active, and even poisonous, but, from age or other deteriorating cause, has become weakened, serious accidents may occur, if he persists in administering the same doses of a parcel which is fresh, or which is obtained from another apothecary. In such cases, the safest plan is always to commence with the usual dose of the medicine, and to gradually increase it, if this be found necessary.

It should also be borne in mind that certain medicines have the power of accumulating in the system, or in other words, of not displaying their usual effects when given in small and repeated doses, until a certain quantity has been taken, when, on a sudden, symptoms resembling those caused by an overdose of the article, make their appearance. This has been remarked in relation to mercury, arsenic, and several other of the metallic medicines, as well as iodine, digitalis, etc. In giving remedies of this character, the physician should always be cautious, and not repeat the dose of them too fre-

quently, because no sensible effect is produced at the expected time.

Intervals between Doses.—As every medicine produces a specific and definite action on the system, which, in most cases, continues for a certain time, and then ceases, it becomes necessary to renew or maintain the medicinal impression as long as is required to counteract the morbid condition of the system. In some cases, however, as in the case of an emetic or purgative given for the purpose of merely evacuating the stomach and bowels, the single effect produced may be sufficient, and no repetition of the dose is required. In most attacks of disease, on the other hand, the physician is obliged to prescribe medicines in such quantities as to produce a certain impression, and to repeat the doses at such intervals as will keep up the influence of this impression. Where, from a want of knowledge of the time during which the remedy he has administered will continue to exercise its full action on the system, he postpones a repetition of it for too long a period, although a fresh impression is made by each dose, but little real good is the result, and, from a want of continuity in the remedial impression, no progress is made towards a cure. Hence, a physician should be acquainted with the usual duration of the action of the medicine he is administering, and order a repetition of the doses so as to keep the system under its influence. A nurse should, therefore, in all cases, follow his directions implicitly, as regards the periods at which medicines are to be given, for, by inattention to this rule, injustice is done to the physician, and, what is of more importance, the life of the patient is endangered. Where the diffusible stimulants are administered, especially those of an evanescent character, it is of much consequence that their influence should be kept up; and hence a neglect on the part of a nurse in giving them at the prescribed periods might cause a fatal collapse of the patient. It should be observed, however, that, except in cases where it is necessary thus to maintain the vital powers of a patient, this strict observance of the prescribed intervals between the doses of medicines is not intended to extend to the night, so as to disturb the invalid, as, in most diseases, sleep is one of the best restoratives; but advantage is to be taken of those moments when he is awake, timing the doses as nearly as possible to the designated periods.

Rules for the Administration of Medicines.—As has been stated, fluid medicines are usually administered in drops, teaspoonfuls, tablespoonfuls, etc.—an approximate measurement, which, although not precise or accurate, is sufficiently so in most cases, though not suited to medicines of a very active nature. As the generality of medicines are nauseous, it is necessary to modify, as far as possible, their disagreeable taste, which renders them so repugnant to patients, and often causes much difficulty in their administration, especially to children; but this modification must not be of such a character as to alter their properties. As regards young children, much difficulty will be obviated by the use of the medicine-spoon already described; this will also be found useful in cases of insanity, where patients

refuse to take medicine or nourishment.

It is often found that patients experience much difficulty in swallowing pills, especially when these are of small size. The usual mode is to place the pill on the tongue, and to take a mouthful of water, when, on making an effort to swallow, both pass down the throat together; this plan is generally successful; but some persons appear to be unable to take a pill in this manner, and gorge themselves with fluid without effecting the deglutition of the pilular body; in such cases, by enveloping the pill in some bread, or some conserve or sweetmeat, so as to form a bolus, the difficulty is obviated.

Mixtures containing insoluble ingredients should always be shaken up before they are administered; otherwise, the first doses will contain but little of the active ingredients, whilst the last portions will, on the other hand, be more powerful than was intended. Where the article administered is of a volatile nature, it should be given the moment it is poured out, and the bottle

containing the remainder immediately closed.

As each of the classes of medicinal articles requires the observance of certain rules to insure its full benefit, these will be briefly noticed in an

alphabetical order.

Acids.—These are given to fulfil various indications; some acting as tonics, some as refrigerants, etc. As those most generally used are corrosive, they require to be diluted with some bland fluid, so as not to exercise too powerful a local action on the tissues with which they come in contact; nor should they be kept in a metallic vessel, nor given by means of a metal spoon. As most of them act on the enamel of the teeth in a very rapid and energetic manner, the mouth should be well rinsed with water after the administration of each dose; or they may be taken by being sucked up by means of a small glass tube, thus avoiding any contact with the teeth: this observation applies to many of the acid or super-salts; the usual solution of the sulphate of quinia, which contains free sulphuric acid, is known to act

on the teeth very rapidly, and, from a constant repetition of the doses, to injure them in a serious manner; and hence requires to be given with

Antacide are medicines intended to neutralize an undue or morbid acidity of the stomach or intestines. Their action is chemical, and they produce an innoxious compound which takes the place of the morbid fluid that causes the uneasiness or pain. In many cases, they act most efficaciously, when an emetic or cathartic has been previously administered. To obtain a permanent benefit from them, they should be combined with tonics, aromatics, etc.; as, when given alone, the relief afforded by them is but transient.

They are most advantageously administered early in the morning, or some time previous to a meal during the day. When the salt resulting from the union of the antacid and the morbid acid is purgative, the former is better given at bedtime; thus, the combination of the solution of potassa, of the carbonates of potassium and sodium, or of magnesium, forms salts with the gastric acid that act with some energy on the bowels; but this is not the case with chalk mixture or lime-water.

The patient should be restricted to light animal food and well boiled vegetables, avoiding sweets, acids, pastry, and, in fact, everything liable to increase the acescent condition of the stomach.

Antilithics and Lithontriptics are medicines supposed to possess the power of obviating or dissolving urinary calculi. That there are remedial agents capable of removing or relieving that morbid condition of the system on which a lithic acid diathesis depends, there can be no doubt; but it is very questionable if we possess remedies capable of dissolving calculi existing in the urinary organs. Among the antilithic remedies, those most generally employed are magnesia and its salts, the alkalies, soap, several of the acids, some astringent diuretics, many bitter tonics, etc. In cases of a lithic acid diathesis, however, much depends on the regulation of the diet of the patient; thus, when there is a superabundant secretion of uric acid, the food should contain as little azote as possible, and, therefore, be mainly of a vegetable nature; but, at the same time, care must be taken that the healthy action of the stomach is not impaired. There should be an avoidance of all indigestible substances, as fresh bread, pastry, salt meats, and even soups of all kinds; nor should malt liquors or acid wines be allowed. Where the white sand deposits or the phosphates occur, an acid system of diet is beneficial, with abstinence from all alkalies, soda-water, etc.; whilst lemonade, the acid wines, and fruits in moderation can be allowed with advantage.

Antispasmodics are remedies which have been considered to be endowed with the power of allaying spasms, and of calming or entirely removing irregular actions of the nervous system. As spasmodic action of the muscular apparatus and a morbid condition of the nervous centres may arise from a variety of causes, it has been found that the most opposite modes of treatment have been required; thus, in some cases, the most efficient antispasmodic is the lancet, whilst in others the morbid symptoms are best alleviated by the most active diffusible stimuli. It is not our intention to enter into the discussion of the mooted question of the modus operandi of antispasmodics, or whether there exists a class of remedies which are endowed with the power of exerting a direct control over spasmodic action. It is, however, shown by experience that the influence of this class of remedial agents is very limited in their operation and very various in their effects, and that to be efficient much discrimination is requisite on the part of the physician in the selection of the article best calculated to attain the desired effect. In general, what are termed antispasmodics have some of the properties of the narcotics, but differ from them in not causing stupor or insensibility. They are mostly substances possessed of a strong odor, and of a

more or less volatile nature; and hence also partake of the properties of stimulants.

Anthelmintics are medicines which are capable of expelling or destroying worms situated in the intestinal canal. Several kinds of worms are apt to infest the human intestines, and often give rise to distressing and even fatal symptoms. The medicines calculated to dislodge them are of various kinds; some act mechanically, as active purgatives, powder of tin, cowhage, etc.; some by being poisonous to the worms, as pink root, pomegranate bark, the vegetable bitters, etc.; and to this class belong, in all probability, the acrid, volatile, and resinous vermifuges, as turpentine, camphor, garlic, etc.; and the mineral remedies, as calomel, the preparations of iron, sulphur, etc.; some seem to act by asphyxiating the worms, as the fatty oils, the muci-

lages, etc.

Vermifuge medicines should be given in as simple a form as possible, and in as large doses as is compatible with their nature, and the age and condition of the patient; and hence the plan of administering them in the form of lozenges, biscuits, etc., is erroneous. One of the most certain of these remedies is the pink root (spigelia), either in the form of simple infusion, or united with senna or savin; in the first case, it should be followed by the administration of a brisk cathartic. In consequence of its sometimes causing temporary loss of sight, tremors, etc., which, although seldom dangerous, are apt to frighten the relations and friends of the patient, it is better, especially in cases of children, to administer the infusion in the evening, so that its effects may not be observed. The worm-seed oil is also another native anthelmintic of great power, but has the objection of having so disagreeable an odor and taste as to prevent its general use; the least unpleasant mode of giving it is in emulsion with mint or cinnamon water.

Whatever vermifuge is employed, and whatever success attends its administration, the treatment should not be confined to the mere expulsion of the worms; but the condition of the stomach and bowels should be attended to, and their tone rendered healthy by the use of tonics, and a well-directed and

generous diet.

Cathartics are those medicines which increase in a greater or less degree the peristaltic action of the intestines. Cathartics have been divided into laxatives, which are characterized by acting mildly, without stimulating in any great degree the vessels of the intestines, or exciting a general disturbance of the system; and purgatives, which, in addition to evacuating the contents of the bowels, also promote secretions from their mucous coat, giving rise to copious watery stools. Some purgatives have a more violent action, occasioning nausea, faintness, pain, tenesmus, etc.; and some, acting in an overdose as acrid poisons, cause great irritation, and even inflammation of the intestines. But there is another and important character in the action of purgatives, which is that different portions of the intestinal canal are most affected by different cathartic substances; thus, calomel acts, in a marked manner, on the upper portions of the tube, as is shown by the increase of the biliary matters in the evacuations; gamboge also manifests its power on the stomach by often causing vomiting, but also, like the other drastics, causes much irritation in the large intestines; aloes, again, exerts very little action on the upper part of the canal, but spends its force on the lower portion; in fact, each purgative substance is characterized by a peculiarity of action as regards the part of the intestinal canal affected by it, and the nature of the evacuation it produces; and hence, it is of importance, in prescribing an article of this class, that it be suited to the impression wished to be made, and not, as is too frequently the case, selected at random. No class of remedies has been productive of more injury than the present, from their being resorted to without judgment, and from being persevered in for

too long a time; for, independent of the irritation they create and keep up in the bowels, they impair digestion, and too often lay the foundation of fatal organic diseases. Purgative medicines may be exhibited at any period during the day; but in all cases the patient should not be exposed to the influence of cold air; if, however, the circumstances are not urgent, it is better to administer them late at night or early in the morning, so as to prevent the disturbance and loss of rest to the patient, and also to secure their retention by the stomach; when given on an empty stomach, they also act more speedily and effectually than when this viscus is filled with food. To promote their action, and to obviate their griping effect, warm diluents, as chicken water, gruel, etc., should be freely taken after the first discharge. Where they operate too much, this inordinate action is to be checked by laudanum given by the mouth, or in the form of injections.

Many of these medicines are very nauseous, and so repugnant to the patient as to induce nausea and vomiting, and, therefore, require the addition of correctives. The taste of rhubarb is best disguised by being given in milk, and that of castor oil by the froth of porter. The disagreeable taste of infusion of senna is much lessened if made with cold water, or, if made in the usual manner, by the addition of strong coffee, black tea, or by a few grains of cream of tartar. Aloes is rendered more palatable by the addition of extract of liquorice. Magnesia is mixed more perfectly with water or milk, if it is poured on the surface of the fluid, and permitted to sink as it becomes saturated, than by the opposite course. The neutral salts are rendered more palatable by adding a small portion of lemon-juice to their

When a cathartic is given in the form of pill, its operation is always less speedy than when administered in powder or mixture; and it should be borne in mind that the drastic purgatives operate more mildly, and even effectually, in combination than when given alone, as is instanced in the compound cathartic pill.

Enemata or Clysters.—This mode of purgation is now generally employed in our large towns; but a great prejudice exists among many persons against its use, from a fastidious and mistaken delicacy. In consequence of the improved apparatus now to be procured, the administration of these remedies is attended with much less difficulty and exposure than formerly, when the pipe and bag or common syringe were employed; and, therefore, much

of the objection to their use is obviated.

Clysters are of almost indispensable utility when it is necessary to evacuate the bowels as speedily as possible, or when the stomach will not bear the administration of a purgative by the mouth, and also in cases where it is of importance to make a direct application to the lower bowels, as in dysentery, colic, etc. Where it is merely wished to open the bowels, an injection of tepid water will often be found sufficient; where this is not found sufficient, the addition of table-salt, sweet-oil, or molasses, will, in most cases, induce a full discharge. In all cases the patient should be directed to retain the injection for as long a time as possible, and not to attempt to empty his bowels immediately after the reception of the medicine. Though clysters seldom can be forced beyond the great curve of the colon, and hence their local action is confined to the lower part of the bowels, still, in many cases, their purgative influence extends to the small intestines, and their administration is followed by full and copious evacuations. They are also directed for other purposes than evacuating the bowels, for, from the intimate connection of the rectum with the other pelvic viscera, impressions made upon it are speedily transmitted to the adjoining parts, and hence, remedies can be directed by this channel with much advantage. In irritation of the bladder or uterus, an anodyne injection into the rectum will often afford much relief.

In diseases of the lower bowels, also, clysters are of almost indispensable utility, as also in the dislodgment of ascarides seated in the rectum; nor are they less beneficial in those cases of sudden sinking of the powers of life where deglutition is impossible, and yet a prompt stimulating impression is requisite to save the patient; under such circumstances, clysters of some

of the diffusible stimuli have proved of the greatest benefit.

Suppositories.—These are substances introduced into the rectum to induce a discharge of its contents. Their use is to some extent confined to the mere object of relieving costiveness, for which purpose a piece of soap of a conical shape, and of about an inch in length, may be employed; but in some cases, articles of a more stimulating character are necessary. In cases of costiveness in children, the introduction of the end of a small roll of paper, moistened with oil, for a few moments into the rectum, will, in many cases, be found sufficient. Recently, however, suppositories are more extensively used to act locally, or with the view of the gradual absorption of the medicinal substance. The former objection, that they frequently create irritation in the rectum, is, as far as their basis at the present time used is concerned, entirely obviated. Their mode of preparation and the apparatus used in making them will be fully described in the chapter on officinal preparations and directions, in another part of this volume.

In all cases where enemata or suppositories are employed, they must be introduced with care; otherwise serious injury may be done to the mucous coat of the rectum; instances have occurred where, from a careless insertion of the pipe of a syringe, the gut has been seriously affected, giving rise to fistula, etc. In most cases, the injection for a child under one year is about an ounce, which is to be gradually increased to five or six ounces, as it advances in age; to a youth, from ten to fifteen years old, a pint may be given; whilst an adult requires a pint and a half to a quart. Where, however, the injection is of an anodyne nature, to restrain discharges or to alleviate pain, the laudanum should be mixed with not more than half an ounce to an ounce of bland mucilage, so as not to excite contraction of the

bowels by the stimulus of quantity.

Demulcents or Emollients are medicinal agents which diminish tone or irritation in the tissues to which they are applied, and thereby cause a relaxation of the parts, or sheathe and protect them from the action of

substances capable of acting on them injuriously.

The term *Emollients* is generally employed to designate remedies which are applied externally to soften and relax external surfaces, and, by contiguous sympathy, the deeper seated parts; these effects have been referred by some to a physical, and by others to a vital, agency. They consist principally of bland watery mixtures, or of simple water, at a somewhat elevated temperature, of oleaginous substances, or those combined in various forms, as fomentations, poultices, etc., which will be more particularly noticed in a

subsequent part of the work.

Demulcents are bland substances of various kinds, administered internally, to prevent the action of irritating matters on mucous membranes, or to soothe or lubricate these parts when irritated or inflamed. They are useful in irritation and inflammation of the stomach and bowels, in like conditions of the air-passages and lungs, as well as in affections of the urinary apparatus. When prescribed in cases of catarrh, and other morbid conditions of the respiratory organs, they are usually directed to be taken ad libitum; but they should be swallowed slowly, for their main efficacy arises from their lubricating effect on the parts with which they come in contact; and this soothing influence is extended by sympathy to the bronchial membranes and pulmonic structure. They should be taken after a fit of coughing, for, as, by that spasmodic effort, the acrid secretion of the inflamed mucous

surface is thrown off, they are enabled to come in direct contact with the irritated part, and thus exercise their soothing influence more efficiently.

Diaphoretics are those medicinal agents which promote and increase cutaneous transpiration. These articles are numerous, and of a very heterogeneous character. In general, warm diluents, aided by external heat, are very effectual means of promoting perspiration; whilst, in some cases, this excretion is better promoted by the use of cool liquids, or even by the sudden and temporary application of cold to the surface. They are in almost every case relative agents; and, to produce the desired effect, should be given in certain states of the system, and with certain precautions. Thus, during the exhibition of these remedies, the patient should be confined to bed, and covered with light blankets; his shirt should be of flannel or muslin, as these are good non-conductors of heat. Their action is much promoted by the free use of diluents, given either warm or cold, according to the temperature of the patient's skin. During the continuance of the perspiration, great care should be taken that it is not suddenly checked from any cause. When it is wished to moderate the sweating, the patient may be removed to another bed, covered with a warm blanket, his clothes changed, and his body dried with dry towels, care being taken that he is not exposed to cold air. During the exhibition of diaphoretics, no medicines of a purgative or diuretic character should be administered, as the action of the latter is incompatible with that of the former, besides causing a frequent exposure to cold during their operation.

DILUENTS are watery fluids which increase the fluidity of the blood, and render the secretions and excretions less acrid or viscid. The best diluent is water, which is to be given either alone or variously flavored, according to the taste of the patient or the circumstances of the case. The temperature at which a diluent is given has much influence on its action. Thus, water at 60° or 70° F. merely dilutes; whilst at 45° to 60° it acts somewhat as a tonic, and at 70°, and to as high a temperature as it can be drunk, it is stimulant. Merely tepid water will often act as an emetic, whilst at 90° or 100° it will quiet the stomach and relieve nausea. In a cool or cold state, diluents diminish the temperature of the body and moderate an undue excitement of the pulse, and are hence called refrigerants or temperants, and principally consist of aqueous solutions of many of the acids, or of some of the

neutral salts.

Diuretics are medicines which increase or promote the secretion of urine: this they do by increasing the quantity of fluid taken into the stomach, or by stimulating the kidneys to increased action. They are always inconstant in their effects, and cannot be relied upon to produce the desired effect in all cases. To obtain their effect, the surface of the patient's body should be kept cool; otherwise, they are apt to operate as diaphoretics. Hence, the patient should remain out of bed, and the medicine be administered during the daytime; or, if confined to bed, the clothing should be as light as is compatible with comfort. The action of diuretics is much aided by a free

EMETICS are those medicines which invert the natural action of the stomach, so as to cause an ejection of its contents through the mouth, or vomiting. When the patient is plethoric, bloodletting should always precede the administration of an emetic, as it not only promotes its operation, but prevents any injurious rush of blood to the head. When it is required, a full dose of the emetic substance is to be administered; but, in the generality of cases, it is better to give it in divided doses, frequently repeated, until the desired effect is produced. It often happens, when a physician orders an emetic, that he will be asked not to give a strong one, as the patient is too weak, etc.; but it should be known that, unless the medicine causes full vomiting, it will

create more uneasiness and debility than when it acts in the desired manner. When vomiting takes place, it should be encouraged by draughts of tepid water or weak chamomile tea, to be repeated after each discharge; but the use of these fluids is not to be carried too far, because, when the stomach is gorged with liquids, the action of vomiting is often not fully performed, or is wholly checked. When the operation of an emetic is too violent, the best means of checking it is by the administration of laudanum, or the application of fomentations or warm poultices to the epigastrium; if these fail, a spice plaster or a sinapism to the same part will generally be found effectual. If the stomach continues irritable, thrink, food, or medicine is to be given in very small quantities. There is always much thirst, which patients are very apt to endeavor to alleviate by freely taking some fluid; but this in most cases being rejected, the evil is only increased; the best plan to relieve it is to frequently wash the mouth with some cool drink, swallowing as little as possible. When the stomach is inactive, and a full dose of an emetic substance does not cause vomiting, it is always unsafe to repeat the dose, as by such a course inflammation may be produced. When the stomach thus resists the action of one article, carried to a due extent, it is better to have recourse to another, or to endeavor to produce emesis by titillating the fauces and throat by means of a feather. Emetics should always be given at the time ordered by the physician, and, as a general rule, on an empty stomach, in the morning; but it is sometimes of benefit to administer them in the evening, as, from the exhaustion produced by their operation, a disposition to sleep

EMMENAGOGUES are medicines which excite or promote the catamenial discharge; but there are, strictly speaking, few remedies which have this specific power on the uterus, the majority of them acting by their influence on the system generally, or on parts contiguous to the uterus—ergot being almost the only article which exercises a direct power on this organ, and that rather in increasing its expulsive energy than in promoting the menstrual function, though it has been advantageously employed for the latter purpose. To insure the successful administration of this class of remedial agents, the system must be previously prepared for their use by invigorating it, if there are relaxation and debility; and by an opposite course, if there is an undue degree of arterial action. In a majority of cases, the restoration of the discharge is rather attributable to a proper regulation of the system than to any specific power in the emmenagogue administered.

Epispastics are external applications which are capable of inflaming the skin, and causing an effusion of serum beneath the cuticle. These effects can be produced by a variety of means; but that most generally employed is the Spanish fly, or cantharides. The mode of applying a blister, and of dressing the sore it occasions, is very simple; but, without special directions from the physician, many nurses and attendants on the sick are strangely ignorant on the subject. The best preparation of cantharides for blistering purposes is the cerate of Spanish flies, or common blistering plaster, this will always be found effectual, if properly prepared and of good materials. It is best spread on soft leather, though linen, muslin, or even stout paper will answer. To obtain a prompt action from a blister, it should be spread thick; powdered flies should not be sprinkled on its surface, for, if the plaster is well made it requires no such addition; added to which, the powder is apt to adhere to the skin and to give the patient much uneasiness. Before applying a blister, the part on which it is to be placed should be well washed with soap and water, and thoroughly dried, the hair shaved off, and the skin irritated by being rubbed with a coarse towel, or, if this is not sufficient, with warm vinegar, spirits of turpentine, etc. The plaster is to be secured to the part by means of a bandage; or, what is better, by means of strips of adhesive

plaster, or by coating the margin of the leather or cloth on which the blister is spread with the adhesive plaster. Whenever either of the last modes of securing a blister is resorted to, it is necessary, to secure its adhesion, that the skin be perfectly dry. The plaster should be in perfect contact with the skin; but should not, as is too often the case, be subjected to much pressure, for this retards vesication, and is a source of uneasiness to the patient.

The period generally required for a blister to draw is twelve hours; but this is liable to many exceptions: thus, for children, delicate females, and for persons with tender skins, a much shorter time is sufficient. The best plan, when the patient complains of pain and burning, is to lift the corner of the plaster and examine the condition of the skin beneath, and, if it be found vesicated or fully reddened, to remove the blister; or, if the skin is not sufficiently inflamed, to permit the blister to remain till this result is attained. When the skin is sufficiently reddened, but not vesicated, the application of a warm poultice, or of a dressing of basilicon ointment, will cause a copious effusion of serum. In cases of children and irritable persons, or those liable to strangury, this should always be done. To guard against this latter, it has been advised to interpose a piece of gauze, fine muslin, or tissue paper between the skin and the plaster: these should be moistened with oil. It is very doubtful, however, whether this plan is of any real advantage.

In many persons, the action of a blister disposes to sleep; but in very sensitive individuals it causes much irritation; this may be often obviated by the addition of a few grains of extract of hyoscyamus, or of belladonna, to the plaster. When it is requisite to cause a blister as rapidly as possible, the plaster of Spanish flies must be replaced by other means. In such cases paper moistened with oil of cantharides, or with the ethereal extract, will be found useful. The application of a pledget, wet with water of ammonia, will also act very rapidly. When a still more rapid effect is desired, the direct application of heat to the part may be resorted to, by means of a disk of polished metal, heated in boiling water, or by applying a piece of wet

blotting paper to the skin, and passing a hot flatiron over it.

Some persons have a great dread of blisters, and object to the application of a large one; but, when the full effect of blistering is required, a large one should always be applied, for the pain and irritation caused by a large blister are very little greater than a small one occasions, whilst the benefit is more decided. Still, as the quantity of the discharge is in a great measure equivalent to the size of the vesication, large blisters depress more than small ones; therefore, when they are intended merely as counter-irritants, small blisters are to be preferred. The size and shape of blisters vary greatly, according to the part to which they are to be applied, and the age of the patient. Dr. Dewees gives the following as the general size of blisters:—

For the legs or thighs, from 7 to 8 inches long by 3 to 31 broad.

For the back, from 7 to 8 inches long by 4 to  $4\frac{1}{2}$  broad. For the thorax, from 8 to 9 inches long by 7 to 8 broad. For the stomach, from 8 to 9 inches long by 6 to 7 broad.

For the abdomen, from 10 to 11 inches long by 8 to 10 broad, if designed to cover the whole surface.

For the ears, from the peculiarity of the shape, the size cannot well be defined.

For the temples, from an inch to an inch and a half in diameter; they are usually circular.

These are the sizes for adults; for younger persons they must, of course,

be proportionably smaller.

The dressing of a blister requires some skill on the part of a nurse; and much pain and inconvenience will be saved to the patient by the exercise of

a little dexterity in the operation. Some trouble will be avoided by having everything necessary for the operation in readiness, as the plasters spread, bandages ready, etc. Each of the vesicles is to be carefully snipped, with the points of a pair of sharp scissors, at their most depending part, and the serum evacuated; but when the vesications are very small and numerous, this should not be attempted, as it would occasion unnecessary fatigue to the patient. In such case, the larger vesicles only are to be opened, and the smaller left till a subsequent dressing, when it is probable they will be found much increased in size. The cuticle should not be removed from the surface of the blistered part, except when it is wished to keep up a continued discharge, in which case the cuticle is best removed by the application of a hot poultice. When it is wished to heal the blistered surface, the dressing should be of simple cerate thinly spread on a linen rag and renewed twice a day. When the object is to maintain the discharge for a short time, the dressing should consist of basilicon ointment. When a more permanent impression is desired, some more stimulating application, as savin ointment, must be used. A blistered surface should seldom be washed, as this often causes chilliness and fatigue, and is generally useless. Some persons become faint when a blister is dressed for the first time: this should not excite alarm, as it is a mere sympathetic effect. The plaster for the dressings should not be larger than the blistered surface, as it causes irritation of the sound skin without aiding the discharge. Blisters sometimes, instead of healing properly, become painful and inflamed, and assume the appearance of an eroding or a phagedenic sore; this is best remedied by the application of a soft bread and milk poultice, having its surface anointed with fresh lard or cold cream. If this does not succeed, a lotion of lime-water and linseed oil will often be found effectual; oxide of zinc ointment will likewise prove useful in some When a blistered surface causes much itching and renders the patient restless, washing the irritated surface with an infusion of flaxseed or slippery elm will, in most cases, relieve the uneasiness. One of the most distressing consequences arising from the application of a blister, is the production of strangury, which invariably takes place in some persons whenever a blister is used; this is remedied by a free exhibition of emollient and mucilaginous diluents, opiates by the mouth and as an enema, external fomentations to the pubic region, etc.; in some cases, a clyster of solution of sulphate of sodium will act very efficaciously. To prevent its occurrence, it has been found of benefit to incorporate camphor and opium with the epispastic ointment, say twelve grains of the former and four of the latter, for a blister six inches square. It is said that boiling the flies in water, previous to their formation into an ointment, will deprive them of the property of causing strangury.

Errhines are medicines which, snuffed up the nostrils, cause an increased discharge of the nasal mucus, and generally the convulsive action of sneezing. They are now seldom prescribed, though undoubtedly useful in some cases; but they should never be employed in persons disposed to apoplexy,

or in those affected with hernia, prolapsus uteri, etc.

Escharotics are topical agents, which, by a chemical or mechanical action, are capable of eroding or disorganizing the solid tissues of the part to which they are applied; those which act mechanically are actual cauteries, as a heated iron, moxa, etc.; those which act chemically are caustics, as fused potassa, nitrate of silver, and chloride of zinc. In cauterizing with a heated iron, this should be at a white heat, as, at this temperature, it occasions less pain to the patient, from its causing an immediate death of the part to which it is applied. In applying it to any part, the surface should be protected by some non-conductor of heat, but not by wet paper or cloth, as the sudden extrication of steam will produce a blistered surface around the burn, and

will much increase the pain. The hot iron is rarely employed in this country. except to arrest hemorrhage; in leech bites, where the usual means of stopping the bleeding are ineffectual, the application of the end of a heated wire to the wound will, in most cases, be found effectual. Another mode of applying the actual cautery is by means of moxa. This term is used for a small cone or cylinder of some slowly burning substance, applied to the skin, set fire to, and suffered to burn slowly for a length of time proportionate to the effect intended to be produced; this is a very painful operation, and seldom employed in the United States. The chemical cauterants are numerous, and of various degrees of activity. In using the most powerful of them, caustic potassa, some precautions are necessary, owing to its great deliquescence; when it is employed to form an issue, layers of adhesive plaster should be placed on the skin, with a hole of the proper size cut in their centre, through which the caustic can be applied without danger of its spreading. The chloride of zinc, which is an excellent cauterant, is generally employed by forming it into a paste with flour. The chloride of antimony, though very powerful, from being a fluid, is difficult to manage, but has been advanta-

geously used in cases of poisoned wounds.

EXPECTORANTS are medicines which promote the expulsion of mucus or other matters from the air-passages. It is an ill-defined class of remedies, and is extremely uncertain in its action; but we cannot, in this place, examine the propriety of retaining a division of the materia medica, the articles composing which act in an obscure and by no means regular manner, and in almost all cases by a remote or secondary influence of a nauseating or sedative character. At the same time, daily experience proves that much benefit is derived, in diseases of the respiratory organs, from the administration of substances which are usually considered expectorants, in whatever way they may primarily act on the system. No class of remedies has been more productive of injury than that of so-called cough medicines; nor in any one has quackery exercised a more unbounded sway. It is too common for persons to resort to their use in cough and catarrh without consulting a physician, thus often aggravating a trifling irritation until it becomes a serious, and oftentimes a fatal, inflammation; for, as many of the articles composing them, especially those most frequently employed in domestic and empirical practice, are stimulants, much mischief is apt to follow their indiscriminate The following rules should be observed in the exhibition of expectorants—and should always be enforced on the patient. The surface of the body should be kept moderately warm, so as to promote a gentle diaphoresis, and nothing done that may interfere with the primary operation of the remedy on the nervous, lymphatic, or muscular systems, by the secondary effect of which the lungs are benefited; hence, the use of any that excite diuresis, and more especially of purging, should be avoided; nor should the patient be allowed to indulge his appetite in food or drinks of a stimulating character.

NARCOTICS are medicines which lessen the manifestation of vital phenomena dependent upon the nervous system, especially deadening sensibility and diminishing the motor power: their full operations produce sleep, or even coma. The objects most generally in view in the administration of these articles are the production of sleep, or the alleviation of pain. No medicines are so much modified in their action by idiosyncrasy and habit. This does not extend to them as a class, but to each individually; hence, it is of importance that a physician should ascertain from a patient, before prescribing a narcotic, whether he has been long or frequently in the habit of using it, or whether it causes any unpleasant effects upon him, so that some other article of the class may be substituted. As regards the time at which a narcotic should be given, it depends upon the cause for which it is to be administered. Thus, if prescribed to allay pain, it may be given at any time,

and repeated as long as the pain remains; if to procure sleep, it is best given at night, and so late as to prevent the patient from being disturbed before it produces its full effect; otherwise, it is apt to exercise a stimulating action. In many persons, the secondary effect of opium is to cause much nausea and headache after its narcotic action has ceased, which are best relieved by a cup of strong coffee, or by vegetable acids. When, however, this or any other narcotic produces these consequences, its use should be

relinquished, and some other substituted.

Refrigerants are remedies which are supposed to diminish the heat of the body without causing a marked diminution of sensibility or nervous energy, and they are thought to do this, whether administered internally or applied externally; but it is very doubtful whether any medicines act as internal refrigerants independently of the coldness of the medium in which they are administered, except in a secondary manner. Diaphoretics act as refrigerants by inducing an increase of superficial evaporation; sedatives, by lessening the force and rapidity of the circulation; purgatives, and especially the saline, by the copious watery evacuations they produce. The great refrigerant is cold water, whether applied topically or given internally. As a topical application, it is often mixed with fluids of greater volatility, that, by a more rapid evaporation, a proportionate abstraction of heat may take place.

Sedatives are those remedial agents which diminish muscular tonicity, and the manifestation of nervous influence, even to the production of syncope, or a suspension, for a certain time, of the functions of the systems affected. Some act generally; others more locally. Bloodletting and tartar emetic are examples of the first; hydrocyanic acid, of the second. Most of the articles of this class are capable, if given in too large doses, or too long continued, of producing a depression of the vital powers which may induce death; and hence require to be administered with much care and judgment.

SIALAGOGUES are medicines which induce an increased secretion from the salivary glands. The modes in which the articles composing this class act are various. Some are merely local irritants, as pellitory, horseradish, etc.; and, when chewed, produce such a local stimulation of the salivary glands as to produce a copious effusion of saliva and mucus. Another and more important section includes such articles as evince their sialagogue powers in a secondary manner, which does not take place until a powerful impression has been made on the system generally; to this belong mercury, gold, etc., and their preparations. In the first of these divisions, their medicinal powers depend wholly on sialagogue effects; hence, they are merely useful as counter-irritants; the local stimulation, and consequent increased secretion produced by their action, often acting advantageously in relieving inflammations and congestions of adjoining parts. The curative value of internal sialagogues, however, is not dependent on the salivary flow they occasion, for though, in many cases, this may be very great, yet it is not essential to their remedial action, and may, in fact, rather be considered as a proof that their full constitutional influence has been attained.

In administering mercury with a view to the production of its constitutional effect, it should always be recollected that, if it be permitted to exert its sialagogue powers to any great extent, it always causes great distress to the patient, without producing a beneficial effect on the disease; and its operation should, therefore, be closely watched. The condition of the gums should be examined daily, and, as soon as they display evidence of the action of the remedy, it should be discontinued, or given at longer intervals. The constitution of the patient should be sedulously attended to, as mercurials are apt to produce unpleasant consequences in delicate, nervous individuals, and are badly berne by the aged, who have suffered from previous attacks of

illness. It is always dangerous to push them to salivation in children, as it frequently produces sloughing of the gums and cheeks. When too great a degree of salivation has been induced by the mercurials, it is of importance to check it as speedily as possible. This is to be attempted by cool air, and by washing the mouth with an infusion of some vegetable astringent, a solution of opium, or one of acetate of lead; this latter is very efficacious, but has the property of rendering the teeth black. Marked benefit has also been derived from a weak solution of chloride of soda; much reliance is placed by some practitioners on the preparations of sulphur, especially the soluble sulphurets, both as a wash in solution, and administered as a powder. An infusion of the smooth sumach (Rhus glabra), as well as a strong solution of borax, has likewise been found very useful as a local application. When the inflammation is severe, the administration of cathartics, especially the saline, is requisite, and in some cases blisters and leeches. Where a tendency to slough exists, the application of diluted pyroligneous acid will be found advantageous.

STIMULANTS are remedies which increase the vital activity of the system, or of a single organ, the first being termed general, and the latter local stimulants. Much discrimination and caution are required in the administration of articles of this class, because, if given when inflammation is present, they are liable to create more mischief than benefit; but they are called for when, on the decline of that condition of an organ, or organs, a state of relaxation or torpidity exists. In this state of things, a gentle stimulation

materially assists the functions, and is productive of much benefit.

Tonics are closely allied to stimulants, and some of them act in this manner; but most of them do not cause any sensible excitation of the system, whilst, at the same time, they gradually impart tone and activity to the vital powers. With the exception of iron, most tonics act primarily on the nervous system, and secondarily on the muscular, on which latter their power is most distinctly marked. Iron appears to act in a different manner, by altering or improving the condition of the blood, and consequently increasing the tone of the system. One of the most valuable properties of many articles of this class is that of curing diseases of a periodic type; in what manner, it is difficult to explain, as the laws that govern periodicity are but little understood.

In prescribing the antiperiodic tonics in fevers, as cinchona and its salts, their use should be confined to the intermissions, and, in most cases, in as large doses as the stomach will bear with impunity, so timing the doses that one may be taken a short time before the expected paroxysm. Quinia and its preparations, although eminently antiperiodic, are not possessed of the tonic properties of the bark itself, and, in the large doses recommended of late, are apt to induce unpleasant affections of the head, as vertigo, ringing in the ears, headache, and mental delusions. In administering arsenic as an antiperiodic, its effects should be carefully watched, and be discontinued when it causes constitutional symptoms, as vertigo, and ædema; nor should it be given in debilitated habits, and where the pulse is weak and feeble. It is better, in all cases, to commence its use in small doses, and to increase them until the stomach is somewhat affected, when the quantity is to be diminished, or even discontinued.

#### Management of Convalescence and Relapses.

The management of a patient, after the cessation of an attack of disease, and when he is declared convalescent, is of equal importance with the treatment during the continuance of the malady; and yet it is one strangely neglected by the physician, and is too often trusted to nurses and friends.

In all recoveries from sickness, the organs or parts which have been affected remain for some time in an excitable condition, and liable to recurrence of the disease on the slightest provocation; and it is of much consequence to inquire what causes operate most frequently in thus producing a relapse. It will be found that they generally consist in the indulgence in food, either in too great quantity, or of an improper character, or in the too early or im-

prudent exposure to the weather, or in over-exertion of any kind. Diet.—The stomach, in common with every other part of the body, suffers from a diminution of its normal vigor and power of digestion, and, as a necessary consequence, when food of too nutritious a character is taken into it, it is unable to digest it properly; hence, part of it remains in an undigested state, oppressing the weakened organ, and is either rejected by vomiting, or causes diarrhea; or, if the stomach is capable of converting it into nourishment, an undue stimulation of that organ ensues, which will result in fever. This latter state of things is also induced by the administration of stimulating drinks. No animal substance, in any form, should be allowed during the continuance of acute febrile disease, nor immediately after its cessation. When it is permitted, it should be at first as little stimulating as possible, and in small quantities at a time; but it is to be gradually increased in quantity and quality as the patient gains strength. An invalid should be very cautious in the use of certain articles, considered by nurses and others as peculiarly nourishing and proper for the sick, namely, animal jellies of all kinds. These are exceedingly indigestible, even in a state of perfect health-added to which, they are, in most cases, rendered highly stimulating by the addition of wine or spices.

Exercise.—Another frequent cause of a relapse is over-exertion, from the common, but erroneous, notion that a convalescent will not recover his strength, except he takes as much exercise as he can bear. Properly regulated exertion is highly serviceable; but it should never be carried so far as to produce exhaustion, and should be pursued for some time in-doors, before it be attempted in the open air; the latter, at first, should always take place in a carriage, that can be opened or closed at will; the patient may then attempt short walks in the open air; but, in all cases, it is of importance that he is not unduly fatigued, as otherwise injury instead of benefit will be the result. One of the most serious errors, committed with regard to exertion, is that of permitting a convalescent to sit up too frequently, or for too long a time, under the mistaken notion of giving him strength. A patient should never be allowed to sit up longer than is agreeable to his feelings, and never

so long as to produce a sense of fatigue.

Air.—Great care must be taken that an invalid is not exposed to cold or damp air, especially if his skin be disposed to moisture; to guard him from sudden changes of temperature, he should wear flannel next to his skin, and have his feet well protected by warm stockings. In every convalescence, from whatever disease, country air is far more invigorating than the vitiated atmosphere of towns; but care must be exercised in the selection of the location, as to its freedom from malaria, etc., for it is far preferable that he should remain within the precincts of the city, than expose himself to the influence of causes which act with peculiar activity on a system debilitated by previous disease.

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## FORMULARY.

#### ABSINTHIUM.

#### WORMWOOD.

This name is applied to several species of Artemisia, all, however, possessing the same properties. That recognized in the U. S. Pharmacopæia, and most generally employed, is A. absinthium, a native of Europe, and commonly cultivated in our gardens.

Sex. Syst. Syngen. super. Nat. Syst. As-

teraceæ.

Linn. Sp. Pl. 1188. Griffith, Med. Bot. 405. The parts used are the leaves and the tops or extremities of the branches. These have a grayish-white color; a soft, silky feel; a fragrant odor, and a very bitter taste. They impart their properties to water or alcohol.

Wormwood has been employed as a stimulating tonic, in various forms of dyspepsia, in amenorrhœa, chronic leucorrhœa, gout, verminose affections, etc. It is given in a

variety of forms.

#### Infusion of Wormwood.

R. Wormwood. one ounce. Boiling water, one pint.

Infuse. Dose, one to two fl. ounces.

Brande. The tisane of wormwood of the Paris Codex is a weak infusion, made in the proportion of 1 of wormwood to 200 of boiling water.

#### Extract of Wormwood.

R. Wormwood, two parts. Alcohol,

Water, each, six parts. Digest for 24 hours, express and treat the residue again with a mixture of

Alcohol.

Water, each, three parts. Mix the expressed liquids, filter, and evaporate to the proper consistence. Dose, ten to twenty grains. Tonic and stomachic.

#### Clyster of Wormwood.

R. Wormwood,) - each, three drachms. Rue, Savin, Boiling water, one pint. Boil, strain, and add to each half pint Castor oil, half an ounce. Foy.

#### Tincture of Wormwood.

R. Wormwood, one part. Alcohol, sp. gr. 914, sufficient. Obtain by displacement, five parts of tincture. Tonic, stomachic, and vermifuge. Dose, from twenty drops to two fl. drachms. Paris Codex.

The tincture of Ph. Germ. is of the

same strength.

#### Alkaline Tincture of Wormwood.

R. Wormwood, Tansy, each, eight parts. Centaury, Bog Bean, Alcohol. one hundred and twenty parts.

Carbonate of potassium, one part. Digest for six days, and filter. Dose, one or two fl. drachms. In dyspepsia and flatulent colic. Hoffmann.

## Syrup of Wormwood.

R. Wormwood, two ounces. Boiling water, twenty fl. ounces. Infuse for six hours, strain, add for every ten ounces of the filtered liquor, nineteen ounces of sugar, and make a syrup. Dose, Paris Codex. Ph. Germ. a tablespoonful. (83)

#### Wine of Wormwood.

R. Wormwood, three parts. Alcohol, 60 per ct., six parts. Good white wine, one hundred

parts.

Digest the wormwood in the alcohol for 24 hours; then add the wine, macerate for ten days, express, and filter. Dose, one to two tablespoonfuls. Paris Codex.

#### Oil of Wormwood.

R. Tops of wormwood, one part. Olive oil, ten parts. Heat for two hours on a water-bath, stirring often, express, and filter. As an embrocation to the abdomen, in cardialgia, diarrhœa, etc. Paris Codex.

#### Essential Oil of Wormwood.

at will. R. Tops of wormwood, sufficient. Water, Distil, and collect the oil that floats on the product. Dose, two to four drops several Paris Codex. times a day.

#### Compound Spirit of Wormwood.

R. Wormwood, four pounds. Juniper, eight ounces. Cinnamon, two ounces. Angelica root, half an ounce. Alcohol, 34 per ct., seventeen pounds.

Macerate for fourteen days, distil twelve pounds, pour back and re-distil ten pounds. Guibourt.

#### Ratafia of Wormwood.

R. White sugar,

Water, each, forty ounces.

Dissolve, and add

Orange-flower water, six fl. ounces, previously beaten with

White of egg, one.

Then add

Compound spirit of

wormwood, fifty-six fl. ounces.

Heat on a water-bath, cool, and filter.

Guibourt.

## ACACIA.

#### GUM ARABIC.

This gum is derived from several species of Acacia, as A. vera, A. senegal, A. arabica, etc.

Sex. Syst. Polygam. monœcia. Nat. Syst. Fabaceæ.

Willdenow, Sp. Pl. iv. 1056. Griffith,

Med. Bot. 270.

In tears or fragments of various sizes, often rounded; colorless or of a yellowish tint, semi-transparent, inodorous, of a slightly sweetish mucilaginous taste. Wholly soluble in water, forming a mucilage. Insoluble in alcohol. Demulcent and nutritive.

### Compound Powder of Gum Arabic.

R. Powdered gum

Arabic, three parts.

Powdered liquorice

root, two parts. Powdered sugar, one part.

Mix. Demulcent and mild expectorant. Used as a vehicle for heavy insoluble pow-Ph. Germ.

#### Mucilage of Gum Arabic.

R. Gum Arabic, in small

fragments, four ounces. half a pint. Water,

Add the water to the gum, agitate occasionally till the mucilage is formed. Strain. U. S. Ph. and Ph. Germ.

Brit. Ph. dissolves two parts of gum Arabic, in pieces, in three parts of water. Paris Codex directs equal weights of powdered gum and water.

Principally used to suspend insoluble powders, or to diffuse oily and resinous sub-

stances through aqueous fluids.

#### Mixture of Gum Arabic.

R. Powdered gum Arabic,

Powdered sugar, each, three parts. thirty-two parts. Water,

Dissolve. Demulcent and emollient. Used to appease cough and to allay irritation, also as a vehicle for other medicines.

Ph. Germ.

#### Gum Lozenges.

R. Powdered gum Arabic, one ounce. nine ounces. Powdered sugar, Orange-flower water, six drachms. Mix and form into lozenges weighing fifteen grains each. A useful article to allay irritation of the throat in catarrh. Paris Codex.

#### Pectoral Paste of Gum Arabic.

two pounds. R. Gum Arabic, Dissolve in water, and add one pound and a half. Sugar,

Evaporate to a proper consistence, adding

Orange-flower

three fl. drachms. water. Employed to allay irritation, like the last.

#### Pate de Guimauve.

R. Gum Arabic, white, two pounds. two pounds. White sugar, twelve. Whites of eggs, Double orange-flower

> four fl. ounces. water.

Dissolve the gum in two pounds of water, strain, heat by a water-bath, add the sugar, and evaporate, continually stirring, to the consistence of honey; then add the whites of eggs previously beaten, and the orangeflower water, and continue to beat the mixture until it does not adhere when applied to the back of the hand; pour on a marble slab and keep in boxes, covered with a mixture of three parts of starch and one of Paris Codex.

#### Gum Arabic Paste.

R. Gum Arabic, one pound. Dissolve on a water-

bath, in water, eight fl. ounces. Evaporate to the consistence of honey.

Whites of eggs, six. Orange-flower water, two ounces. Beat well together. When sufficiently consistent, run into moulds.

Used to appease cough and allay irritation. Béral.

#### Syrup of Gum Arabic.

R. Gum Arabic, in pieces, two ounces. Sugar. fourteen ounces. Water, eight fl. ounces.

Dissolve the gum in the water without heat, then the sugar with a gentle heat, and strain. A good addition to pectoral and other mixtures. U. S. Ph.

Ph. Germ. directs this to be prepared by mixing one part of the mucilage with three parts of simple syrup.

## Compound Syrup of Gum Arabic.

R. Syrup of gum Arabic, four fl. ozs. Sulphate of morphia, one grain. Oil of sassafras, one drop. Hoffman's anodyne, half fl. drm. Mix. Known as Jackson's cough syrup, and much used in catarrhs, etc. Dose, a Mix. As a refreshing drink in fevers. tablespoonful every three hours. Jackson.

#### Linctus of Gum Arabic.

R. Gum Arabic, one part. Clarified honey, three parts. Incorporate the gum with the honey. The dose is a teaspoonful occasionally, to relieve irritation of the throat in catarrh.

#### Wendt's Mixture of Gum Arabic.

R. Mucilage gum Arabic,

Linden-flower water, equal parts. Found useful in doses of a teaspoonful every hour in the diarrhœa of infants.

#### ACETOSELLA.

#### WOOD SORREL.

Sex. Syst. Decand. Pentag. Nat. Syst. Oxalidaceæ. Lindley.

Oxalis acetosella. Linn. Torrey and Gray, Fl. i. 211. Griffith, Med. Bot. 208.

A native of Europe and the United States. The whole plant is used. It is agreeably acid, from its containing a binoxalate of potassium. It is refreshing and cooling, and is said to be useful in scorbutic affections.

The fresh herb is used in doses of one drachm, the aqueous extract, now rarely made, in doses of a scruple to half a drachm.

#### ACETUM.

#### VINEGAR.

Impure and very dilute acetic acid, containing about five per cent. of real acid. It is the result of acetous fermentation of any fluid which is susceptible of vinous fermentation. It is principally obtained in Europe from malt or weak wine, and in this country from cider. It should be distilled for pharmaceutical use.

It is employed internally as a refrigerant and diuretic, and is a grateful addition to diluent drinks in febrile affections. It is also sometimes used as a clyster. Externally it is beneficial as a fomentation, and likewise forms a useful addition to gargles and collyria.

## Vinegar Mixture.

three fl. ounces. R. Vinegar, Honey, two fl. ounces. Water, three pints. Mix. As a cooling drink in fevers.

Ammon.

R. Vinegar, one fl. ounce. Acetic ether, one fl. drachm. Syrup of raspberries, three fl. ozs. Water, two pints.

Augustin.

#### Mixture of Vinegar and Cardamom.

R. Vinegar, one fl. drachm. Comp. tincture of cardamom, Simple syrup, each, half a fl. oz. ten fl. ounces.

Mix. To be taken in such portions as the stomach can bear. In sick headache.

#### Vinegar Wash.

R. Wine vinegar, Alcohol, each, one ounce. Water, twelve ounces. Mix. As a diaphoretic wash in fevers, and diluted with water as an application to Berends. contusions.

#### Gargle of Vinegar.

R. Vinegar, two parts. Honey,

Barley water, each, eight parts. Mix. As a mouth-wash or gargle in inflamed fauces. Soubeiran.

R. Vinegar, two fl. drachms. Chloride of ammonium, drachm.

Honey, one and a half fl. ounces. twelve fl. ounces. Water. Mix. As a gargle in inflamed fauces.

Ratier.

#### Syrup of Vinegar.

R. Vinegar, twenty ounces. Sugar, thirty-five ounces. Dissolve by a gentle heat. Par. Cod. Mixed with water, this forms a pleasant and refreshing drink in febrile complaints. Dose, half to one fluidounce.

#### Vinegar Cataplasm.

R. Vinegar, one part. Flour, three parts. Make cataplasm. An astringent and antiseptic application. Béral.

#### Distilled Vinegar.

Distil a gallon of vinegar by means of a sand-bath, from a glass retort into a glass receiver. Discontinue the process when seven pints shall have been distilled, and U.S. Ph. Mix. keep these for use.

#### ACHILLEA.

#### YARROW. MILFOIL.

A. millefolium is indigenous to Europe, but has been naturalized in this country. It is an herbaceous plant two to three feet

Sex. Syst. Syngen. Polyg. superfl. Nat.

Syst. Compositæ.

The parts employed are the leaves and flowering tops. The leaves are finely divided, with linear segments; the flowers are in numerous heads, with whitish ray and disk florets. They have a peculiar aromatic odor reminding of chamomile, and an aromatic bitter, slightly astringent, taste. They are stimulating, tonic, and somewhat astrinates the stimulating of the strangent of the st gent. Dose, half to one ounce a day in the form of infusion.

#### Extract of Yarrow.

R. Yarrow leaves,

Yarrow flowers, each, equal parts. Exhaust with diluted alcohol and evaporate to the proper consistence.

Ph. Germ.

Dose, ten to thirty grains, in pills or mixtures.

#### Mixture of Yarrow.

R. Extract of yarrow, one drachm. Borax, one scruple. Chamomile water, six ounces. Dissolve. Two tablespoonfuls every two hours, in amenorrhœa. Hildenbrand.

## ACIDUM ACETICUM.

#### ACETIC ACID.

This acid is obtained from wood by destructive distillation and subsequent purification. It is a colorless liquid having a pungent odor free from empyreuma.

Sp. gr. 1.047, U. S. Ph.; 1.044, Brit. Ph., 1.040, Ph. Germ.

#### Glacial Acetic Acid.

(Sp. gr. 1.065.)

It is obtained by distillation from an anhydrous acetate and sulphuric acid; or from a mixture of an anhydrous acetate and bisulphate of potassium. At a mean temperature it is liquid, but it crystallizes at about 34° and remains crystalline until the tem-perature rises to 48°. Its specific gravity is increased by adding ten per cent. of water.

#### Diluted Acetic Acid.

(Sp. gr. 1.006.)

R. Acetic acid. a pint. Distilled water, seven pints. Brit. Ph. and U. S. Ph.

This is the pure vinegar of Ph. Germ., which has the sp. gr. 1.008.

#### Camphorated Acetic Acid.

R. Powdered camphor, half an ounce.
Acetic acid, six and a half fluid-

Dissolve.

Ed. Pharm. 1841.

# Aromatic Spirit of Vinegar (Aromatic Acetic Acid, or Aromatic Vinegar).

R. Glacial acetic acid, twenty troyounces.

Camphor, two troyounces.

Oil of lavender, eight minims.

Oil of cinnamon, fifteen minims.
Oil of cloves, half a drachm.

Mix. To be kept in a glass-stoppered bottle. Paris Codex.

R. Glacial acetic acid, twenty-five parts.

Oil of cloves, nine parts.

Oil of lavender,

Oil of lemon, each, six parts.

Oil of bergamot,

Oil of thyme, each, three parts. Oil of cinnamon, one part.

Dissolve. Ph. Germ.

Cooley gives a similar formula, with the addition of one and a half parts of camphor.

Aromatic vinegar is used as a pungent and reviving perfume in fainting, etc. As it is corrosive, it should not be allowed to come in contact with the skin or clothes. It is also prepared in the dry way, as follows:—

R. Crystallized acetate

of sodium, one drachm.
Sulphuric acid, twenty drops.
Oil of lemons,

Oil of cloves, each, three drops.

Mix, and keep in a glass-stoppered bottle. Gray.

The above substitutes for Henry's aromatic spirit of vinegar are very pungent perfumes.

#### Acetic Acid Cataplasm.

R. Rye meal, three parts.
Diluted acetic acid, one part.

Mix. Used as an application to ill-conditioned ulcers.

Taddei.

#### Acetic Acid Mixture.

R. Diluted acetic acid, one ounce.
Simple syrup, half an ounce.
Water, four ounces.

Mix. (See Vinegar Mixture.) In scarlatina. Dose, for a child nine years old, one to two tablespoonfuls every four hours.

Brown.

## Camphorated Vinegar.

R. Camphor,

Glacial acetic acid, each, one part.
Vinegar, forty parts.
Powder the camphor with some of the acetic acid, add the remainder, then gradually the vinegar, agitate occasionally for several days, and filter.

Paris Codex.

R. Powdered camphor, three parts. Vinegar, one hundred parts. Dissolve by agitation. Raspail.

#### Acetic Acid Clyster.

R. Barley water, six fl. ounces.
Diluted acetic

acid, one to three fl. ounces.

Mix. The proportion of diluted acid may be varied according to the indication. Has been advised in obstinate constipation, ileus, etc. Swediaur.

### Aromatic or Prophylactic Vinegar.

R. Oil of rosemary,
Oil of juniper,
Oil of lemon,
Oil of thyme,
Oil of cloves,
Tincture of cinnamon, one hundred
parts.
Aromatic tincture,
fifty parts.

Aromatic tineture, fifty parts.

Acetic acid, two hundred parts.

Water, one thousand parts.

Mix by agitation, and after three days, filter. Ph. Germ.

This is intended as a substitute for the complicated formula formerly used for *Thieves' vinegar*, at one time so celebrated as a preservative against the plague. It has no advantages over it.

## Vinegar of the Four Thieves.

R. Wormwood,
Roman wormwood,
Rosemary,
Sage,
Mint,
Rue,

each, one ounce and a half.

Lavender flowers, two ounces.

Garlie,
Calamus,
Cinnamon,
Cloves

each, two drachms.

Cloves, | Nutmegs, | Distilled vinegar,

Distilled vinegar, eight pints.

Digest by a moderate heat, in a closely stopped matrass, for twelve days, strain, express, and filter, then add one ounce of camphor dissolved in alcohol.

Lewis.

### ACIDUM ACETICUM EM-PYREUMATICUM.

#### Pyroligneous Acid.

Pyroligneous acid (sp. gr. 1.034) is an impure acetic acid, obtained by a destructive distillation of wood. It contains creasote, empyreumatic oil, etc., and has been employed in gangrene to correct the fetor and to promote the separation of sloughs, and also as an application to unhealthy ulcers.

U. S. Dis. Dunglison, N.R. 6th ed. p. 13.

#### Mouth Wash.

R. Pyroligneous acid, half a fl. oz.
Cinnamon water, four fl. ounces.
Syrup of mulberries, two fl. ozs.
Mix. Used as a mouth-wash in cancrum
oris. It should be kept in an opaque glass
vessel to prevent decomposition.

Phœbus.

## Injection of Pyroligneous Acid.

R. Pyroligneous acid, two fl. drms.
Distilled water, six fl. ounces.
Mix. In purulent discharges from the ear.
Buchanan.

#### Cataplasm of Pyroligneous Acid.

R. Bran, half a pound.
Linseed meal, one ounce.

Mix well, and add Pyroligneous acid, q. s.
to make a cataplasm. As an application
to foul ulcers. Reece.

#### ACIDUM ARSENIOSUM.

#### WHITE ARSENIC.

Arsenious acid is found in the shops, in the form of semi-transparent or opaque lumps, or in that of a heavy white powder. It has no smell, and its taste is slightly acrid. It is volatile at a red heat, giving off white fumes of a garlic-like odor. Extremely poisonous and corrosive, even in minute doses. Dose,  $\frac{1}{60}$ th to  $\frac{1}{12}$ th of a grain.

U. S. Dis.

#### Arsenical Powder.

R. White arsenic, one part.

Calomel, one hundred and ninety-nine parts.

Mix. Recommended in obstinate cases of lepra and cancerous ulcers. Dupuytren.

#### Compound Powder of White Arsenic.

R. White arsenic, ten parts.

Powdered dragon's
blood, three parts.
Animal charcoal, two parts.
Cinnabar, thirty parts.

Mix, and triturate well. Has been used in

the same description of cases. Known as Cosme's arsenical powder. Ph. Germ.

R. White arsenic, one part.

Kino, eight parts.

Cinnabar, sixteen parts.

Mix, and triturate well.

Ratier.

Employed in the French hospitals as a caustic to cancerous sores.

R. White arsenic, one part.
Cinnabar, five parts.
Burnt sponge, two parts.
Mix well.

Paris Codex.

Used as an escharotic; about three times stronger than the preceding, and half the strength of Cosme's powder.

#### Arsenical Ointment.

R. White arsenic, one drachm.
Lard,

Spermaceti cerate, each, six drachms.

Melt the cerate and lard by a gentle heat, and add the arsenic; triturate well in a glass mortar till perfectly united.

Soubeiran.

R. Cosme's arsenical

powder, one part.

Hellmund's narcotico-

balsamic ointment, eight parts.

Mix thoroughly. Ph. Germ.

#### Arsenical Cerate.

R. Powdered white arsenic,

Simple cerate, one ounce.

Mix the arsenic with the cerate softened by heat, and triturate well.

#### Solution of Arsenic.

R. White arsenic, one scruple. Distilled water, two fl. ounces.

Dissolve. This and the foregoing oint- acid from time to time, as long as it subments have been employed as applications to cancerous sores, but are always dangerous from the posionous symptoms induced by the absorption of the arsenic.

#### Arsenical Pills.

R. White arsenic, two grains. Powdered opium, three grains. eight grains. White soap, Powdered liquorice root, q. S.

Mix well and divide into twenty pills. Each of these pills contains 10th of a grain of They have been given in doses of one or two three times a day, according to circumstances, in diseases of an intermittent character. Ellis.

#### Arsenic and Pepper Pills.

R. White arsenic, one grain. Black pepper, twelve grains. Gum Arabic, two grains. Distilled water,

Triturate the arsenic and pepper for a long time, add the gum and water, and rub well Make twelve pills; each of which will contain 12th of a grain of arsenic. Guibourt.

R. White arsenic, fifty-five grains. Powdered black pepper,

nine drachms. Conserve of roses, sufficient. Mix, and make eight hundred pills. One daily in chronic psoriasis.

Cazenave and Schedel.

#### Pills of Arsenic and Opium.

R. Arsenious acid, two grains. Powdered opium, eight grains. one scruple.

Beat together and divide into twenty-four pills. One to be taken three times a day. Have been found useful in intermittent fevers, periodical headaches, neuralgia, and A. T. Thomson.

## ACIDUM BENZOICUM.

BENZOIC ACID.

R. Benzoin, a pound. Put it into a flat-bottomed iron dish on a sand-bath, gradually increase the heat, pass the vapors through a sheet of filtering paper into a receiver of thick well-sized paper,

limes without much empyreuma. U.S. Ph.

Benzoic acid is in the form of white, feathery hexagonal crystals, when chemically pure having no odor, but usually with an agreeable smell from the presence of oil. The taste is acid and acrid. It is converted into hippuric acid, and voided by the urine when taken by man, and has been recommended in the uric acid diathesis and gout, but does not appear to be of any benefit. It has, however, been serviceable in catarrh of the bladder, and where there is a secretion of granular mucus with phosphates. It is also beneficial as a stimulating expectorant. Dose, ten to fifteen grains.

#### Mixture of Benzoic Acid and Copaiba.

R. Benzoic acid, one drachm. half fl. ounce. Copaiba, White of egg, Camphor water, seven fl. ounces. Mix. Dose, two tablespoonfuls three times a day. Recommended in chronic dysuria and vesical irritation.

#### Powder of Benzoic Acid and Ipecacuanha.

R. Benzoic acid, two scruples. Ipecacuanha, six grains. Golden sulphur of antimony, three grains. White sugar, one drachm. Mix and triturate well. Divide into six powders. Dose, one, four times a day, in barley water. Said to be useful in asthenic pneumonia. Phæbus.

#### Mixture of Benzoic Acid.

R. Benzoic acid, one scruple. Sulphur, each, six grains. Ipecacuanha, Honey, six ounces. Syrup of seneka,

Syrup of squills, each, one ounce. Mix. Dose, a teaspoonful, three or four times a day, in the chronic catarrh of elderly persons. St. Marie.

## ACIDUM BORACICUM.

BORACIC ACID.

R. Powdered borax, forty parts. Boiling water, one hundred parts. Dissolve and add

Muriatic acid, twenty-five parts. and remove from the latter the benzoic Collect the acid, which crystallizes on cooling, on a filter, drain, wash with cold water, and dry at 234° F. If not pure, dissolve and recrystallize. Wackenroder.

If sulphuric acid be used it is almost impossible to free the boracic acid from a trace of it. Dose, ten to sixty grains.

#### Mixture of Boracic Acid.

R. Boracic acid, ten grains. Oil of sweet almonds. Syrup of lemons, each, one fl. drachm.

Mix. Advised in cardialgia; to be repeated until a cessation of the pain.

Pierquin.

#### Collutory with Boracic Acid.

R. Cloves, Galangal, each. two drachms. Ginger, Peruvian bark, Gum lac, one and a half drachms. Benzoin, Storax, each, half a drachm. six fl. drachms. Alcohol, Acetic acid, one and a half fl. ounce.

Vinegar, five fl. ounces. Macerate, press, and filter, then add

half a drachm. Boracic acid, This has been recommended as a mouth wash in a scorbutic condition of the gums. When used it is to be diluted with water.

Phæbus.

## ACIDUM CARBOLICUM.

#### CARBOLIC ACID.

Syn. Phenic acid; phenylic acid; phenylic alcohol; phenol.

It is obtained by fractional distillation of coal tar, between the temperatures of 300° and 400°, and subsequent purification. It occurs in colorless or white acicular crystals, which fuse at a temperature of about 100° to a colorless liquid, having an odor and taste resembling creasote, and boiling near 370°. It dissolves freely in alcohol, ether, glycerin, and the essential oils, and requires about 20 parts of water for solution; its solution does not affect litmus paper, and coagulates collodion. Its compounds with alkalies are readily decomposed by the acids, including carbonic acid. When 9 parts of it are dissolved in 5 parts of alcohol, and mixed with 60 parts of water and one part of solution of sesquichloride of iron, sp. gr. 1.34, the mixture assumes permanently a beautiful blue color. (Flückiger.)

In its pure state it acts as an escharotic; when diluted, its properties are rubefacient, Mix. In bronchitis.

anæsthetic, and antiseptic. Taken inter-nally it is carminative and sedative, resembling creasote in its power of allaying gastric irritability. It is best administered largely diluted or in mucilaginous liquids, with some aromatic to correct and cover its

Dose, one-half to three grains, twice or three times daily.

## Glycerite of Carbolic Acid.

R. Carbolic acid, two troyounces. half a pint. Glycerin, Rub these together in a mortar until the acid is dissolved. U. S. Ph.

Used in herpes and similar skin diseases. Glycerin of carbolic acid, Brit. Ph., is

nearly identical with the above.

#### Carbolic Acid Water.

R. Glycerite of carbolic acid, ten fl. drachms. Distilled water, sufficient to make one pint. Mix. U. S. Ph.

#### Carbolized Vinegar.

R. Common vinegar, four parts. Carbolic acid, one part. Dissolve. Quesneville.

Used as a disinfectant and antiseptic in place of aromatic vinegar.

#### Disinfectant Carbolic Acid Powder.

R. Plaster Paris, one thousand parts. Carbolic acid, one part. Mix thoroughly. Bouchardat.

#### Carbolized Ether.

R. Ether, one hundred parts. Carbolic acid, one part. Lémaire. Used for insufflation in catarrh of the Eustachian tube.

#### Inhalations of Carbolic Acid.

one drachm. R. Carbolic acid, six fl. ounces. Water, Mix. In croup. J. L. Smith. R. Carbolic acid, fifteen to twenty drops. one to two Tincture of conium, fl. ounces. two pints. Water, Stillé.

#### Carbolic Acid Mixture.

R. Carbolic acid, half a drachm.
Acetic acid,
Tincture of opium,
Chloric ether, each, one fl. drachm.
Water, eight fl. ounces.

Mix. A tablespoonful every four hours, until the fever has subsided, in zymotic diseases.

diseases.

R. Carbolic acid,
two grains and a half.

Distilled water, three fl. ounces. Orange-flower water, half a fl. ounce.

Syrup of orange peel, a fl. ounce.

Mix. To be taken in three doses in two hours, in cholera.

Dussau.

#### Carbolic Acid Gargle.

R. Carbolic acid, twenty grains.
Acetic acid, half a drachm.
Honey,
Tincture of myrrh, of each, two
drachms.
Water, sufficient for six fl. ounces.
Mix. Used in diphtheria. Hartshorne.

#### Mouth Wash of Carbolic Acid.

R. Carbolic acid, eight grains. Water, four fl. ounces. Dissolve. As a mouth wash and gargle in sore throat. Kempster.

#### Lotion of Carbolic Acid.

R. Carbolic acid, one to two drachms.

Alcohol, one fl. ounce.

Water, two pints.

Mix. In cancerous ulcerations, and by substituting lime-water for the water, as an

application in burns.

B. Carbolic acid,
Acetic acid,
Water,

Barclay.

Barclay.

Government for the water, as an application in burns.

Barclay.

one ounce.
three ounces.

Mix. In itch and other parasitic diseases.

Bazin.

#### Carbolic Acid Liniment.

R. Carbolic acid, one part.
Olive oil, six parts.
Mix. For burns, to relieve pain and promote the healing process without suppuration.

Pirrie.
R. Carbolic acid, one drachm.
Alcohol,
Water, each, six ounces.

Mix. As a rubefacient, in cholera.

Dussau.

#### Carbolic Acid Ointment.

R. Carbolic acid, Sixty grains. Cointment, four hundred and twenty grains.

Mix thoroughly.

U. S. Ph.

#### Suppositories of Carbolic Acid.

R. Carbolic acid, twelve grains.
Oil of Theobroma, 348 grains.
Dissolve the carbolic acid in a few drops of water, and mix the solution first with sixty grains of the oil of theobroma, and afterwards with the remainder, which has been previously melted and allowed to cool to 95°; then pour into suitable moulds and make twelve suppositories.

U. S. Ph.

### ACIDUM CARBOLICUM IMPURUM.

#### IMPURE CARBOLIC ACID.

It is a colorless liquid becoming reddishbrown on exposure, and having the odor and taste of the pure acid, modified by empyreumatic constituents of tar, which should not exceed 30 per cent. by measure of the impure acid, the impurities being nearly insoluble in water. It is used only as an external remedy and for disinfecting purposes.

#### Carbolic Acid Clay.

R. Clay in powder, eighty parts.
Impure carbolic acid, twenty parts.
Mix thoroughly. Useful for destroying parasitic insects upon plants, and for disinfecting purposes.

C. O. Curtman.

#### ACIDUM CARBONICUM.

#### CARBONIC ACID.

This stimulating gas is readily absorbed by water, and advantage has been taken of the fact by retaining it in a liquid form under pressure. The mineral or soda water of the shops is water saturated with carbonic acid gas.

#### Carbonic Acid Water.

By means of a forcing-pump, throw into a suitable receiver, nearly filled with water, a quantity of carbonic acid equal to five times the bulk of the water.

U. S. Ph.

Pirrie.

One drachm.

Times the bulk of the water.

Carbonic acid is readily obtained from marble by means of dilute sulphuric acid.

This water has a sharp, pungent, and agreeable taste. It is much used as a common drink in doses of half a pint.

## ACIDUM CHROMICUM.

#### CHROMIC ACID.

It is obtained by saturating water at the ordinary temperature with bichromate of potassium, and pouring two pints of this solution slowly and with constant stirring into three pints of concentrated sulphuric acid. After one or two days the crystals are collected and dried upon porous tiles under a bell-glass, to protect them from dust.

Warrington.

It occurs in deep-red needles, which are deliquescent, readily soluble in water, and oxidize organic matters rapidly. It is employed as a powerful and convenient escharotic in cancerous ulcerations, and for removing warts and other morbid growths. It may be applied in substance to the moistened part, or in solution. It is never used internally.

#### Solution of Chromic Acid.

R. Chromic acid, one hundred grains.
Distilled water, one ounce.

Dissolve.

Marshall.

#### ACIDUM CITRICUM.

#### CITRIC ACID.

This exists naturally in the juices of many fruits; to obtain it pure, boiling lemon or lime-juice is to be saturated with chalk, when carbonic acid is given off, and an insoluble citrate is formed; this is to be washed and decomposed by boiling with dilute sulphuric acid; insoluble sulphate of calcium precipitates, and the citric acid remains in solution and crystallizes on evaporation. To purify, dissolve in water and recrystallize.

U. S. Dis.

Dose, five to twenty grains.

#### Artificial Lemon Juice.

R. Citric acid, one ounce.
Distilled water, fourteen fl. ounces.
Oil of lemons, five drops.
Mix. Beasley.

#### Lozenges of Citric Acid.

R. Citric acid,
White sugar,
Oil of lemons,
Triturate well, and add
three drachms.
one pound.
sixteen drops.

Mucilage of tragacanth, q. s. Make lozenges of twelve grains each.

Cottereau.

R. Citric acid, two drachms.
Oil of lemons, four minims.
Syrup, two pints.

Rub the citric acid and oil of lemons with an ounce of the syrup, then add rest of syrup, and dissolve by a gentle heat.

U. S. Ph.

R. Citric acid, five drachms.
Water, ten fl. drachms.
Simple syrup, sixty troyounces.
Spirit of fresh lemon-

peel, seven and a half drachms.

Dissolve the acid in the water, mix with the syrup at a boiling heat, and, when cold, add the spirit.

Paris Codex.

#### Dry Lemonade.

R. Citric acid, two and a half drs.
White sugar, four ounces.
Oil of lemons, one drop.
Mix well. A spoonful to a tumbler of water.

Ph. Germ.

## Citrated Effervescing Powders.

R. Citric acid, nine drachms. Divide into eighteen powders.

R. Bicarbonate of sodium, eleven drs.

Bicarbonate of potas-

sium, thirteen drs.

Divide into eighteen powders. Dub. Ph. An acid and an alkaline powder are dissolved in separate portions of water, the two solutions are mixed and drank in a state of effervescence. An excellent refrigerant.

## ACIDUM GALLICUM.

#### GALLIC ACID.

It is not certain that this acid exists as such in nature, or whether it arises from the decomposition of tannic acid. It is usually prepared from galls. Many processes have been devised.

R. Decoction of galls, at will. Expose to action of air in a loosely covered vessel for some months; it will grow mouldy, and become covered with a glutinous pellicle, and gallic acid will be deposited on the sides of the vessel and on the under surface of the pellicle; collect, dissolve, and recrys-

This is analogous to the process officinal in the U. S. Ph.

R. Decoction of galls, at will. Sulphuric acid, sufficient

to precipitate. Wash the precipitate with and dissolve by aid of heat in diluted sulphuric acid, boil for a few minutes, let cool, and collect the crystals.

Liebig.

two pints. Gallic acid is a powerful astringent, and two pints.

in phthisis.

Dose, five to ten grains.

Glycerite of Gallic Acid.

R. Gallie acid, two troyounces. half a pint. Glycerin, U. S. Ph. Dissolve by the aid of heat. Glycerin of gallic acid, Brit. Ph., is nearly identical with this.

Mixture of Gallic and Sulphuric Acids.

R. Gallie acid, thirty grains. Dilute sulphuric acid, one fl. drm. Sedative solution of opium, thirty minims. Compound infusion of six fl. ounces.

Mix. Dose, two tablespoonfuls every three or four hours, in hæmoptysis.

R. Gallie acid, one to two drachms. Dilute sulphuric acid, half a fl. drm. Tincture of hops, one fl. drachm. Infusion of hops, six fl. ounces.

Dose, a tablespoonful three times daily, in Bright's disease. Aitken.

Aromatic Syrup of Gallic Acid.

R. Gallie acid, two and a half drs. Syrup of cinnamon, four fl. oz. Dissolve. Dose, a dessertspoonful every two, three, or four hours, in hemorrhages, diabetes, etc. Hartshorne.

#### Compound Mixture of Gallic Acid.

R. Gallie acid, twelve grains. Compound tincture of cinnamon, one and a half fl. drachms. Tincture of opium, eight minims. Caraway water, sufficient for two fl. ounces.

Mix. Dose, two teaspoonfuls for a child two years old, in chronic diarrhœa and gastric irritation. Hillier.

#### Pills of Gallic Acid.

R. Gallie acid. Extract of gentian, sufficient to form pills of two to five grains each. One to be given every three or four hours. Useful in menorrhagia, hæmaturia, etc. Dunglison.

R. Gallie acid, forty grains. Confection of rose, ten grains. ally increasing the dose.

fluxes, as well as in checking night sweats | Make into ten pills. Dose, one at bedtime, for night sweats of consumptives. Tanner.

Injection of Gallic Acid.

R. Gallic acid, one scruple to one drachm. Water, two pints. Mix. Found beneficial in leucorrhœa. Dunglison.

#### ACIDUM HYDROCYANICUM DILUTUM.

HYDROCYANIC ACID.

R. Ferrocyanide of potassium, two ounces. Sulphuric acid, one ounce and a Distilled water. sufficient.

Mix the acid with four fl. ounces of the water, and pour the mixture, when cool, into a glass retort. To this add the ferrocyanide, previously dissolved in ten fl. ounces of the water. Pour eight fl. ounces of distilled water into a cooled receiver, and having attached the retort, distil on a sand-bath, with a moderate heat, six fl. ounces. Lastly, add to the product, five fl. ounces of distilled water, or as much as will render the acid of such strength that 100 grains will be accurately saturated by 12.7 grains of nitrate of silver. U. S. Ph.

Extemporaneous Hydrocyanic Acid.

R. Cyanide of silver, fifty grains and a half. Muriatic acid, forty-one grains. one fl. ounce. Distilled water, Mix the acid with the water, add the cyanide, and shake in a well-stopped bottle. Let settle, decant, and keep for use.

U. S. Ph. This acid should be kept in closely-stopped bottles, protected from the light. It is a transparent, volatile liquid, of a cooling and then somewhat irritating taste, and a peculiar smell. It is the most active poison known, and must be used with extreme caution. It is used as an anodyne and anti-spasmodic, in many diseases. The dose is from one to two drops mixed with gum-water or syrup, always beginning with the smallest quantity and gradually increasing.

## Mixture of Hydrocyanic Acid.

R. Medicinal hydrocyanic acid, one fl. drachm. Distilled water, one pint. Sugar, one ounce and a half. Extract of Indian hemp, five grs. Mix. A dessertspoonful twice a day, gradu-Magendie. R. Medicinal hydrocyanic acid, sixteen drops. Syrup of wild cherry, Camphor water, of each, one fl. oz.

Mix. Dose, a teaspoonful every two or three hours, in violent, troublesome cough. Hartshorne.

R. Powdered gum Arabic, half an oz. Water, seven fl. ounces and a half. Dissolve, and add

Syrup of tolu, half fl. ounce. Diluted hydrocyanic

acid, twelve drops.

Mix. A tablespoonful every three hours in the cough of phthisis. S. G. Morton.

## Syrup of Hydrocyanic Acid.

R. Medicinal hydrocyanic acid, one part.
Clarified syrup, one hundred and ninety-nine parts.

Mix This should be made only when

Mix. This should be made only when needed, as it readily alters. Paris Codex.

#### Julep of Hydrocyanic Acid.

R. Medicinal hydrocyanic acid, fifteen drops. Hoffman's anodyne, two fl. ounces. Syrup of marsh mallow, three fl. ounces.

Mix. A dessertspoonful every two hours.

Pierquin.

R. Medicinal hydrocyanic acid, two to four drops.
Syrup of peppermint, one fl. ounce.
Infusion of linden, four fl. ounces.
Mix. A dessertspoonful every hour. Foy.

#### Inhalation of Hydrocyanic Acid.

R. Diluted hydrocyanic acid, ten to fifteen minims.

Cold water, one fl. drachm.

Mix in a suitable apparatus, and let the vapor that arises be inhaled. Brit. Ph.

#### Injection of Hydrocyanic Acid.

R. Medicinal hydrocyanic acid, one part.

Distilled water, four parts.
In gonorrhea. Foy.

#### Glycerite of Hydrocyanic Acid.

R. Medicinal hydrocyanic acid, ten to forty minims. Glycerin, one fl. ounce.

Mix. Used as a lotion in impetigo, eczema, urticaria, etc. Waring.

#### Lotion of Hydrocyanic Acid.

R. Diluted hydrocyanic

acid, half fl. ounce.

Alcohol, one fl. ounce.

Distilled water, ten fl. ounces and

a half.

Mix. As lotion, in impetigo.

A. T. Thomson.

R. Medicinal hydrocyanic acid, two fl. drachms.
Alcohol, fourteen fl. drachms.
Emulsion of bitter almonds
(made with thirty kernels), six fl. ounces.

Mix. As an antipruritic in eczema.

Erasmus Wilson.

R. Medicinal hydrocyanic acid, two fl. drachms. Lettuce water, two pints.
Mix. In hepatic affections. Magendie.
R. Diluted hydrocyanic acid, half fl. drachm. Bicarbonate of sodium, two

Milk, eight fl. ounces.

Mix. In milky scall. A. T. Thomson.

## ACIDUM HYDRIODICUM.

Hydriodic Acid.

B. Tartaric acid, two hundred and sixty-four grains. Iodide of potassium, three hundred and thirty grains.

Dissolve each in one fl. ounce and a half of distilled water. Mix the solutions, shake and let settle, filter, and add distilled water to make up measure of six and a quarter fl. ounces.

Buchanan.

Has the same properties as iodine, of which each fl. drachm contains five grains; dose, at first a few drops, gradually increased to half a fl. ounce three times a day.

## ACIDUM HYDROSULPHU-RICUM.

#### SULPHURETTED HYDROGEN.

anic Acid.

ic

Sulphuret of iron,
Sulphuric acid,
one fl. ounce.

Sulphuret of iron,
Sulphuret, and gradually pour
on it the acid diluted with three times its

may be passed through water to saturation. Van Mons.

This gas is an active poison, but has been administered in colica pictonum and mercurial affections. It is, however, more employed externally in cutaneous diseases.

#### Hydrosulphuretted Bath.

R. Sulphuret of potassium, four ounces. Water, one pint.

Dissolve, and add

Muriatic acid, two drachms. Advised in Pour the whole into the bath. chronic diseases of the skin, rheumatism, and certain cases of paralysis.

Cadet de Gassicourt.

#### Artificial Sulphuretted Water.

R. Carbonate of sodium, twelve grains.

Liquid hydrosulphurie two pints. acid. Water, six pints. To be kept in well-closed bottles. been recommended in colica pictonum. Foy.

#### Hydrosulphuretted Lotion.

R. Sulphuret of

potassium, twenty-four parts. Water, two hundred and fifty parts. Dissolve, and add

Sulphuric acid, one part. Used as a wash in chronic diseases of the Dupuytren.

## ACIDUM LACTICUM.

#### LACTIC ACID.

R. Sugar, six pounds. Tartaric acid. half an ounce. Boiling water, twenty-six pounds. Mix, set aside for a few days, then add

Old stinking cheese, eight ounces, well diffused in

Curdled acid skimmed milk, eight pounds. Powdered chalk. three pounds. Place in a warm situation, so as to keep the mixture at a temperature of 86° to 95°. Stir often; in eight or ten days it will solidify into a stiff paste of lactate of calcium; now add twenty pounds of boiling water, and

half an ounce of caustic lime, boil for half an

weight of water, and collect the gas; or it | hour, and filter through linen. Evaporate the liquid to the consistence of syrup, and set aside for four days; remove the lactate of calcium, express, agitate with one-tenth of cold water, and express, repeating this operation two or three times. Now dissolve in twice its weight of boiling water, and for every pound of the lactate, add three and a half ounces of sulphuric acid diluted with an equal weight of water. Filter the hot liquid through a bag, and boil it with one pound and three-eighths of carbonate of zinc, for every pound of sulphuric acid, for a quarter of an hour. Filter whilst boiling hot, and let stand to crystallize; remove these crystalline crusts of lactate of zinc, and wash them with cold water. Then dissolve them in seven and a half parts of boil-ing water, and pass through the solution a current of sulphuretted hydrogen, till sulphuret of zinc no longer separates. Filter, boil the liquid, to expel the excess of sulphuretted hydrogen, and evaporate on a water-bath to the consistence of syrup.

> A solution of ten ounces of milk-sugar in nine pints of milk is exposed to the air in a warm place (90° to 100° F.), and the free acid neutralized every other day with bicar-bonate of sodium. When it ceases to be-come acid, the liquid is boiled, filtered, and carefully evaporated to the consistence of syrup. This is dissolved in alcohol, the sodium precipitated by sulphuric acid, the filtrate neutralized with chalk, and the clear liquid evaporated to crystallization. The lactate of calcium is either decomposed by the exact quantity of oxalic acid, or it is converted into lactate of zinc, and this fur-ther treated as in the previous process.

Boutron and Frémy. The officinal lactic acid is a nearly colorless syrupy liquid, of sp. gr. 1.212; which is soluble in water, alcohol, and ether in all proportions, and is not precipitated by acetate of lead, oxalate of ammonium, or, after neutralization with ammonia, by sulphuretted hydrogen. When gently heated, it yields no odor of acetic or butyric acid. Ninety grains of it should neutralize at least seventytwo grains of bicarbonate of potassium.

Lactic acid has the sp. gr. 1.24, Ph. Germ. It has been recommended by Magendie in dyspepsia, by Bricheteau and Dureau in croup and diphtheria as a solvent of false mucous membranes, and is considered by some to be useful in a phosphatic diathesis. Dose, one to three drachms daily.

#### Lozenges of Lactic Acid.

R. Lactic acid, two drachms. Powdered white sugar, nine ozs. Gum tragacanth, Vanilla, fifteen grains. Mix, and form pastilles of half a drachm each, of which three to six may be taken during the day. They should be kept dry.

Souberran.

#### Lemonade of Lactic Acid.

R. Lactic acid, one to four drachms.
Simple syrup, two ounces.
Water, two pints.
Mix. Dose, a cupful several times a day.

Mix. Dose, a cupful several times a day.

Magendie.

#### Inhalation of Lactic Acid.

R. Lactic acid, twenty drops.
Water, half an ounce.
Mix. Applied in the form of spray, in croup.

A. Weber.

#### ACIDUM MURIATICUM.

#### MURIATIC ACID.

Prepared by distilling common salt in a glass retort with sulphuric acid and water. It has a density of 1.16, a suffocating odor, an acrid and sour taste. It is very volatile. It gives a curdy-white precipitate with nitrate of silver. It is never given internally except in a diluted form.

Pure muriatic acid of Ph. Germ. has the

sp. gr. 1.124.

#### Diluted Muriatic Acid.

R. Muriatic acid, four troyounces.

Distilled water, sufficient to make one pint.

Mix. Twenty drops in sweetened water. U. S. Ph.

Sp. gr. 1.038, U.S.; 1.052, Brit.; 1.060, Germ.

#### Gaseous Muriatic Acid.

R. Common salt, two parts.

Sulphuric acid, three parts.

Mix. The muriatic acid fumes that arise are disinfectant if the atmosphere is charged with ammoniacal exhalations, but are much inferior to chlorine.

Swediaur.

#### Muriatic Acid Bath.

R. Muriatic acid, ten fl. ounces. Water, fifty gallons.

Mix. Found useful in some chronic diseases of the skin.

Soubeiran.

#### Muriatic Acid Gargle.

R. Muriatic acid, two fl. drachms.
Honey, two fl. ounces.
Barley water, one pint.
Mix. Useful in the angina of scarlet fever,
and in ulceration of the mouth and throat.

Raties.

#### Muriatic Acid Mixture.

R. Diluted muriatic acid,
one and a half fl. drachms.
Spirit of chloroform,
two fl. drachms.
Tincture of colchicum,

one fl. drachm.
Infusion of cascarilla,

sufficient for six fl. ounces.

Mix. Dose, two tablespoonfuls every three hours, in gout. J. F. Duncan.

#### Syrup of Muriatic Acid.

R. Muriatic acid, three drachms.
Simple syrup, six troyounces.
Mix. Dose, one half to one teaspoonful.

Mouchon.

#### Muriatic Acid Lotion.

R. Muriatic acid, one part.
Water. sixteen parts.
Mix. Advised as a wash for chilblains, and also found beneficial in lepra and other skin diseases.

Foy.

#### Muriatic Acid Pediluvium.

R. Muriatic acid, two fl. ounces.
Water, eight pints.
Mix. Advised by Scott and others in chronic enlargements of the liver and spleen.

Beral.

#### Muriatic Acid Draught.

R. Muriatic acid, ten to twenty drops.
Barley water, eight ounces.
Mix. Dose, a tablespoonful three or four times a day. Has been advised in stone in the bladder.

Ellis.

#### Muriatic Acid Injection.

R. Muriatic acid, two drops. Water, four fl. ounces.

Mix. For injection into the bladder, in phosphatic calculus.

Balman.

#### Muriatic Acid Liniment.

R. Balsam Peru, one drachm.
Spermaceti,
White wax,
Muriatic acid, each, two drachms.
Olive oil, two fl. ounces.
Water, six fl. ounces.
Rub well together. To be applied twice
Ratier.

Ratier.

## ACIDUM NITRICUM.

NITRIC ACID.

Nitric acid of the sp. gr. 1.42. Crude nitric acid, *Ph. Germ.*, has the sp. gr. 1.323 to 1.331; the pure acid is of 1.185, and fuming nitric acid of 1.520 to 1.525 sp. gr.

#### Diluted Nitric Acid.

R. Nitrie acid (sp. gr. 1.42),

three troyounces.

Distilled water,

sufficient to make a pint.

Mix. Dose, twenty to forty drops, in sweetened water, three times a day. U. S. Ph. The sp. gr. of diluted nitric acid is 1.068, U. S. Ph.; 1.086 to 1.089, Ph. Germ.; 1.101, Brit. Ph.

#### Collutory of Nitric Acid.

R. Nitric acid, one fl. scruple.
Honey of roses,
Syrup of mul-

berries, each, half fl. ounce.

Mix. To touch obstinate venereal ulcers in the mouth.

Phæbus.

#### Fomentation of Nitric Acid.

R. Nitric acid, one part.
Distilled water, ninety-six parts.
Mix. Used to destroy the fetid smell of foul ulcers; also as a wash in itch.

Soubeiran.

#### Lotion of Nitric Acid.

R. Nitric acid, half to one fl. drachm.

Laudanum one fl. drachm.

Rose water, six fl. ounces.

Mix. To wash venereal ulcers. Phæbus.

#### Nitric Acid Lemonade.

R. Nitric acid, forty-eight grains.
Simple syrup, five troyounces.
Water, forty-five troyounces.
Mix. Paris Codex.

#### Nitric Acid Mixture.

R. Nitric acid, two fl. drachms.
Raspberry syrup, three fl. ounces.
Sugar, three ounces.
Water, two pints.
A wineglassful, with as much Seltzer water, in fetid breath.

Cadet.

R. Nitric acid, half fl. drachm. Water, one pint and a half. Syrup of cin-

namon, one fl. ounce and a half.
Mix. In syphilis, chronic hepatitis, etc.
A spoonful every two or three hours.

Augustin.

R. Nitric acid, two fl. scruples.
Opium, two grains.
Water, two fl. ounces.
Syrup of cinnamon, half fl. ounce.
Mix. A spoonful every hour, in barley water. In dysentery, cholera, etc.

Ammon.

R. Nitric acid,
Gum Arabic,
Sugar, each,
Water,

With Amelian Market Mar

Mix. A small tablespoonful in water, as occasion may require. As a tonic, to arrest colliquative sweats, etc.

Ellis.

#### Ointment of Nitric Acid.

R. Lard, fifty parts.
Nitric acid, three parts.
Mix and stir at a moderate heat until blue litmus paper is scarcely reddened; then pour into paper moulds. Used as an application to porrigo, psora, etc. Ph. Germ.

#### Liniment of Nitric Acid.

R. Nitric acid, two fl. ounces.
Oil of turpentine, three fl. ounces.
Theriac, three drachms.
Honey, one ounce.
Alcohol, six fl. ounces.
Mix. As a rubefacient, has been used in cholera.

Fou.

### Injection of Nitric Acid.

R. Nitric acid, twenty drops.
Water, eight fl. ounces.
Mix. A teaspoonful to be injected every hour, in gleet.

**Durkee**.

### ACIDUM NITRO-MURIA-TICUM.

#### NITRO-MURIATIC ACID.

R. Nitric acid, three troyounces.

Muriatic acid, five troyounces.

Mix in a glass vessel, and when effervescence has ceased keep in a cool, dark place.

U. S. Ph.

Dose, three or four drops.

R. Muriatic acid, three parts.
Nitric acid, one part.
Mix. Paris Codex and Ph. Germ.

#### Diluted Nitro-Muriatic Acid.

R. Nitric acid,

Muriatic acid,

Distilled water,

Distilled water,

one and a half troyounces.

two and a half troyounces.

sufficient to make a pint.

Mix the acids, shake occasionally during twenty-four hours, then add the water. U. S. Ph.

R. Nitric acid, three fl. ounces.

Muriatic acid, four fl. ounces.

Distilled water, twenty-five fl. ozs.

Mix the acids, and after twenty-four hours add the water. Sp. gr. 1.074. Brit. Ph.

#### Nitro-Muriatic Acid Bath.

R. Nitro-muriatic acid, six fl. ounces.
Water, three gallons.
Mix. Recommended by Scott as a footbath in chronic hepatitis.

## ACIDUM OXALICUM.

#### OXALIC ACID.

This acid exists in many plants in combination with lime or potash, but is usually obtained by the action of nitric acid on sugar or starch. It is in the form of colorless, transparent, prismatic crystals, having no odor, but a very acid taste. This acid is an active poison in large doses. It is not used in medicine in this country, but is employed in France.

#### Lozenges of Oxalic Acid.

R. Powdered oxalic acid, one drachm.
White sugar, eight ounces.
Gum tragacanth, two scruples.
Water of orange-peel, five fl. drs.
Oil of lemons, eight drops.
Mix, and form lozenges of ten grains each.
Cottereau.

#### ACIDUM PHOSPHORICUM.

PHOSPHORIC ACID.

## Glacial Phosphoric Acid.

It is prepared by decomposing calcined bones with sulphuric acid in excess, and purifying the concentrated liquid either by

three parts. the addition of alcohol, or ammonia, the one part. phosphate of ammonium to be decomposed by heat.

It is in glass-like masses, transparent, colorless, deliquescent on exposure, and soluble in water and alcohol. The aqueous solution, supersaturated with ammonia, produces on standing but a slight precipitate.

#### Diluted Phosphoric Acid.

R. Phosphorus, five drachms.

Nitric acid

(sp. gr. 1.42), five troyounces. Distilled water, sufficient.

Mix the nitric acid with half a pint of water in a porcelain capsule of the capacity of two pints; add the phosphorus, and invert over it a glass funnel, so that its rim may rest just above the surface of the liquid. Apply heat, taking care not to allow the reaction to become too violent. Should some phosphorus remain undissolved, add more nitric acid, diluted as above, until solution is effected. Then evaporate until all excess of nitric acid has been expelled, and add distilled water sufficient to make the acid measure twenty-five fluidounces.

U. S. Ph.

R. Glacial phosphoric acid, a troyounce.

Nitric acid, forty grains.
Distilled water, sufficient.

Dissolve the glacial phosphoric acid in three fluidounces of water, add the nitric acid, and boil until a syrupy liquid is left, to which sufficient water is to be added to make it measure twelve and a half fluidounces.

U. S. Ph.

The sp. gr. of this acid is 1.056, U. S. Ph.;

1.08, Brit. Ph.; 1.120, Ph. Germ.

This acid is stated to be useful in nervous disorders, in lithiasis with phosphatic deposits, in morbid ossifications, in diabetes, to allay thirst, etc., and as a local application in caries. The dose of the dilute acid is from ten drops to a fluidrachm in gumwater.

## Pills of Phosphoric Acid.

R. Diluted phosphoric acid,
Assafætida, each, three drachms.
Powdered calamus, q. s.
Make one hundred and eighty pills. Dose,
five to ten, three times a day. Recommended in caries. Phæbus.

#### Fomentation of Phosphoric Acid.

R. Diluted phosphoric acid, one oz, Decoction of chamomile, eight ozs. Mix. Employed in caries, and as an injection in fistulas.

Augustin.

#### Phosphoric Tincture of Myrrh.

R. Tincture of myrrh, half a fl. ounce.
Diluted phosphoric acid, thirty
drops.

Mix. Used in caries of the teeth or bones.

Augustin.

#### Phosphoric Acid Lemonade.

R. Phosphoric acid,

(sp. gr. 1.45), forty-eight grains. Simple syrup, five troyounces. Water, forty-five troyounces.

Mix. Dose, about an ounce, to relieve thirst in diabetes, etc. Paris Codex.

The diluted phosphoric acid, U. S. Ph., is one-eighth the strength of the phosphoric acid of the Paris Codex.

## ACIDUM SUCCINICUM.

#### SUCCINIC ACID.

It is obtained from amber, by heating it in a retort until a brown, empyreumatic oil begins to come over. It occurs in yellowish crystals having the odor of oil of amber, freely soluble in alcohol and boiling water, less in ether, and slightly in oil of turpentine.

Ph. Germ.

It has been recommended as an antispasmodic and diaphoretic in cutaneous diseases, gout, convulsions, etc., but is most frequently employed in its combination with ammonia.

Dose, five to twenty grains, in the form of powder, or dissolved in thirty times its weight of water.

## ACIDUM SULPHURICUM.

SULPHURIC ACID.

#### Dilute Sulphuric Acid.

R. Sulphuric acid, two troyounces.

Water, sufficient to make a pint.

Add the acid gradually to the water in a glass vessel, and mix them.

Dose, ten to twenty drops.

R. Sulphuric acid, one part.
Distilled water, nine parts.

Mix. Paris Codex.
Its specific gravity is 1.082, U. S. Ph.;
1.094, Brit. Ph.; 1.113 to 1.117, Ph. Germ.

#### Elixir of Vitriol.

R. Sulphuric acid, six troyounces. Ginger, bruised, one troyounce.

Cinnamon, bruised, one troyounce and a half.

Alcohol, sufficient.

Gradually add the acid to a pint of alcohol. Pack the mixed ginger and cinnamon firmly in a percolator, and pour alcohol upon them until a pint of tincture is obtained. Then mix the diluted acid and the tincture. Dose, ten to twenty drops in sweetened water.

U. S. Ph.

The formula of Brit. Ph. orders about one-half of the sulphuric acid and aromatics.

R. Cinnamon, bruised, four parts. Cardamom, Cloves, 66 Galangal, 66 Ginger, each, one part. Alcohol, sp. gr. 892, fifty parts. Sulphuric acid, two parts. Digest for a week, and filter. Used like the preceding, both being simplified substitutes for Mynsicht's elixir. Ph. Germ.

#### Sulphuric Acid and Alcohol.

R. Sulphuric acid, one part.
Alcohol, three parts.
Add the acid gradually to the alcohol, and mix them. Haller's Elixir. Ph. Germ.
Dose, ten to twenty drops in water.

R. Sulphuric acid, four ounces.
Acetic acid,
Alcohol, each, two pounds.

Mix. Vulnerary, antiseptic, and astringent. Dose, internally, twenty or thirty drops, in an appropriate vehicle. Externally, as a lotion to foul ulcers and contusions, and to arrest bleeding. Campana.

R. Vinegar, six parts.

Alcohol, 68 pr. et., three parts.

Diluted sulphuric acid, one part.

Clarified honey, two parts.

Mix. Theden's vulnerary.

Ph. Germ.

#### Sulphuric Acid and Nitric Ether.

R. Sulphuric acid,
Nitric ether, equal parts.

Mix very gradually. Dose, five to ten drops in an ounce of water. Found beneficial in spasmodic attacks, sinking, and hemorrhages.

Vogler.

#### Sulphuric Acid Lemonade.

R. Sulphuric acid, forty-eight grains. Simple syrup, five troyounces. Water, forty-five troyounces. Mix. As a cooling drink in hemorrhages, and also found useful as a preventive of the effects of lead.

Paris Codex.

#### Sulphuric Acid Liniment.

R. Sulphuric acid, two drachms.
Olive oil, two and a half ounces.
Oil of turpentine, one ounce.
Mix. In gentle frictions to chilblains, where the skin is not broken.

Foy.

#### Sulphuric Acid Ointment.

R. Olive oil, eight parts.

Add gradually, constantly stirring.

Sulphuric acid, five parts.

After standing for twenty-four hours, wash well in tepid water, till it will not redden litmus-paper. Has been used in itch and paralysis, in frictions.

Brugnatelli.

#### ACIDUM SULPHUROSUM.

SULPHUROUS ACID.

R. Sulphuric acid, eight troyounces.

Charcoal in coarse
powder, one troyounce.

powder, one troyounce.
Distilled water, thirty-six fl.

Mix the acid and charcoal in a matrass, apply heat until gas ceases to be evolved, and pass the sulphurous acid gas first through a washing bottle containing some water into the distilled water contained in a two-necked bottle, which is to be kept cool; the unabsorbed gas should be conducted into a solution of carbonate of sodium.

U. S. Ph.

tion of carbonate of sodium. U. S. Ph.

The specific gravity of this acid is about 1.035 U. S. Ph., 1.04 Brit. Ph. It has a strong odor of burning sulphur, and should be protected from contact with the atmosphere. It acts powerfully as a disinfectant and antiseptic, is employed externally in skin diseases of parasitic origin, and has been recommended in typhoid fever and in diseases of the air-passages. Dose, twenty minims to a teaspoonful, largely diluted.

#### Sulphurous Acid Mixture.

R. Sulphurous acid, two to four drachms.

Syrup of orange peel, half an ounce.

Water, sufficient for six fl. ounces.

Mix. Dose a tablespoonful every four hours in typhoid fever. Where diarrhea is present, two drachms of dilute sulphuric acid and twenty minims of tincture of opium are added.

G. Wilks.

#### ACIDUM TANNICUM.

TANNIC ACID.

R. Powdered galls,
Washed ether, of each, a sufficient
quantity.

Expose the powder to a damp atmosphere for 24 hours, then mix with sufficient ether to form a soft paste. After six hours express the mixture enveloped in canvas, powerfully between tinned plates; macerate the residue with a fresh portion of ether, and express as before. Mix the liquids, evaporate spontaneously to a syrupy consistence, spread upon glass or tinned plates, and dry quickly in a drying closet. U.S. Ph.

and dry quickly in a drying closet. U.S. Ph.

Tannic acid is of a yellowish-white color, of a powerfully astringent taste, soluble in water, less so in alcohol or ether. It is a strong astringent, and has been successfully used in hemorrhage and other fluxes. The dose is from two to ten grains.

#### Pills of Tannic Acid.

R. Tannic acid, eight or twelve grains. Mucilage of tragacanth, sufficient to make eight pills. One to be given every two or three hours in gonorrhea. Ellis.

## Pills of Tannic Acid and Opium.

R. Tannic acid, half a drachm.
Extract of
opium, three-quarters of a grain.
Conserve of roses, sufficient
to make twenty pills. One every hour in
uterine hemorrhage.

Dumars.

#### Troches of Tannic Acid.

R. Tannic acid, one troyounce.
Sugar, powdered, ten troyounces.
Tragacanth, powdered, two
drachms.

Orange flower water, sufficient.

Beat together into a uniform mass, and divide into four hundred and eighty lozenges.

U.S. Ph.

Each lozenge contains one grain, or, according to Brit. Ph., half a grain of tannin.

## Glycerite of Tannic Acid.

R. Tannic acid, two troyounces. Glycerin, half a pint.

Triturate them together, and dissolve by the aid of heat.

Glycerin of tannic acid, Brit. Ph., is

G. Wilks. nearly identical with this.

#### Gargle of Tannic Acid.

R. Tannie acid, one drachm. two ounces. Honey of roses, two fl. ounces. Rose water, Distilled water, eight fl. ounces. Mix. As a gargle, to arrest mercurial salivation. Béral.

#### Inhalation of Tannic Acid.

R. Tannic acid, ten or twenty grains. one fl. ounce. Water, Dissolve. Used by atomizer, in hæmopty-Da Costa.

R. Tannie acid, three grains. Extract of hyoscyamus, two grains. Water. one fl. ounce. Dissolve. In chronic bronchitis. Beigel.

#### Injection of Tannic Acid.

R. Tannie acid, half a drachm. Distilled water, eight fl. ounces. Dissolve. In gleet and leucorrhœa. Béral. R. Tannic acid, half a drachm. Good claret wine, eight fl. ounces. Dissolve. Ricord.

### Syrup of Tannin.

R. Tannic acid, one ounce. Water, eight ounces. fifteen ounces. Sugar, Dissolve with heat and strain. Dose, a tablespoonful in passive hemorrhages. Foy.

#### Aromatic Syrup of Tannin.

R. Tannic acid, sixty-four grains. Powdered cinnamon, one drachm. Powdered nutmeg, half a drachm. Glycerin, six fl. drachms. Sugar, seven troyounces. twenty-two fl. drachms. Water, Diluted alcohol, sufficient.

Obtain from the aromatic powders, by percolation with diluted alcohol, one fl. ounce of tincture. Dissolve the tannic acid in the glycerin, add the water, boil and filter. Dissolve the sugar in the filtrate, and add the tincture. D. G. Potts.

#### Mixture of Tannic Acid.

R. Tannic acid. Syrup of rhatany,

Syrup of gum, each, one fl. ounce. Camphor water, four fl. ounces. Mix. Six to twelve spoonfuls a day, in diarrhœa. Béral.

#### Suppositories of Tannic Acid.

R. Tannie acid, sixty grains. Oil of theobroma, three hundred

Mix the tannin well with sixty grains of the oil, add it to the remainder of the oil previously melted and cooled again to 95°; then pour into moulds and make twelve suppositories.

They contain five grains each, or, if made according to Brit. Ph., three grains of tannin.

#### Ointment of Tannic Acid.

thirty grains. R. Tannic acid, Lard, a troyounce. Rub the tannic acid well with the lard gradually added. U. S. Ph.

## ACIDUM TARTARICUM.

#### TARTARIC ACID.

Is prepared from bi-tartrate of potassium, by saturating the excess of acid with chalk, and decomposing the insoluble tartrate of calcium by means of dilute sulphuric acid, evaporating and crystallizing.

It is cooling and diuretic in doses of a

drachm or more.

#### Syrup of Tartaric Acid.

R. Tartaric acid, two ounces. Distilled water, four ounces. Dissolve and mix with Cold simple syrup, ninety-four ounces. Paris Codex.

#### Lozenges of Tartaric Acid.

R. Powdered tartaric acid, three drachms. White sugar, one pound. Oil of lemons, sixteen drops. Mucilage of tragacanth, sufficient. Make into lozenges of twelve grains. Used to allay thirst.

#### Lemonade of Tartaric Acid.

R. Syrup of tartaric acid, one part. Water, nine parts. twelve grains. Mix. For an agreeable acidulous drink. Paris Codex.

Effervescing Powders.

R. Tartaric acid, five drachms. Divide into twelve powders.

R. Bicarbonate of sodium, six drachms.

Divide into twelve powders. U. S. Ph.

An acid and alkaline powder are separately dissolved in water and the mixed so-

rately dissolved in water, and the mixed solutions are taken in a state of effervescence.

R. Powdered bicarbonate

of sodium, ten parts.

Powdered tartaric acid, nine parts.

Powdered white

sugar, nineteen parts.

Dry the articles thoroughly. Mix them, and keep the powder in a dry place.

Ph. Germ.

#### ACIDUM VALERIANICUM.

#### VALERIANIC ACID.

This acid may be obtained by distilling valerian with water until the distillate ceases to have an acid reaction; the liquid is neutralized with soda, evaporated nearly to crystallization, supersaturated with sulphuric acid, and distilled.

Or valerian may be boiled with a weak solution of carbonate of sodium, the expressed liquid supersaturated with sulphuric acid, and distilled. The acid distillate is neutralized by soda and treated as before; finally the oily acid is separated from the water.

Paris Codex digests one hundred parts of cut valerian, five hundred water, six bichromate of potassium, and ten parts of sulphuric acid for twenty-four hours, distils, and proceeds as above.

#### Artificial Valerianic Acid.

Water, twenty pounds.

Dissolve with heat, allow to cool, and add a mixture of

Sulphuric acid, ten pounds.
Rectified fusel oil, two pounds.
Distil sixteen pounds, add to the residue

Sulphuric acid, six pounds.

And again distil about four pounds. Neutralize the mixed distillates with carbonate of sodium, remove the oil (amyl-valerianate), concentrate the liquid, supersaturate with sulphuric acid, distil, and separate the acid from the water.

Wittstein.

Valerianic acid is a colorless oily liquid of a penetrating disagreeable odor, and a

specific gravity of 0.935 *U. S. Ph.*, 0.940 to 0.950 *Ph. Germ.*, 0.955 *Paris Codex.* It is readily soluble in alcohol and ether, and in thirty parts of cold water, and it dissolves of the latter liquid about twenty per cent.

Valerianic acid is used in medicine only in

combination with bases.

#### ACONITUM.

### ACONITE. MONKSHOOD.

Many species of Aconitum are officinal in the various pharmacopæias, but the only one recognized by the U. S. Ph. is the A. napellus, a native of Europe.

Sext. Syst. Polyand. Trigyn. Nat. Syst.

Ranunculaceæ.

Linn. Sp. Pl. 751. Griffith, Med. Bot. 90. The whole plant is possessed of highly deleterious properties, but the root is the most powerful. The leaves are also made use of. They have a somewhat nauseous odor, and a bitterish, acrid taste, followed by a peculiar tingling and burning of the lips. They owe their properties to the presence of an alkaloid called Aconitia.

#### Compound Powder of Aconite.

R. Powdered aconite leaves,
Precip. sulph. of
antimon., each,
Carbonate of

magnesium, one scruple.

Mix. As an anodyne and diaphoretic in gout and rheumatism.

Vogler.

#### Extract of Aconite.

R. Recently dried aconite leaves in fine powder, twelve troyounces.
 Alcohol, a pint.
 Diluted alcohol, sufficient.

Obtain by displacement, using first the alcohol, afterwards diluted alcohol, three pints of tincture, or enough to exhaust. Evaporate the first pint spontaneously to three fluidounces, and the remaining tincture, by means of a water-bath at 160° F., to a syrupy consistence, add the three fluidounces and evaporate at or below 120° to the proper consistence. U. S. Ph.

Paris Codex exhausts with 60 per ct.

lcohol

The extract of aconite of *Brit. Ph.* is the inspissated juice, containing the expressed chlorophyll, but free from the albumen. The inspissated juice of *Paris Codex* contains neither albumen nor chlorophyll.

Dose, one-half to one grain.

#### Extract of Aconite Root.

R. Powdered aconite root, two parts.
Alcohol, 68 pr. et., four parts.
Macerate for a week, express, and treat the

Macerate for a week, express, and treat the residue again with three parts of alcohol of like strength. Filter the mixed tinctures and evaporate to the proper consistence.

Ph. Germ. Dose, one-eighth to one-third of a grain.

## Pills of Extract of Aconite.

R. Alcoholic extract of
aconite, one grain.
Powdered liquorice, twelve grains.
Syrup, sufficient
to form a consistent mass. Divide into six
pills. Dose, one every three or four hours.

Turnbull.

#### Aconite plaster.

R. Aconite root in powder, sixteen troyounces. Alcohol,

Resin plaster, each, sufficient. Exhaust the aconite root by percolation with alcohol, distil off the alcohol, evaporate to a soft extract and add sufficient resin plaster to make the mixture weigh sixteen troyounces.

U. S. Ph.

Used in neuralgia.

#### Oleoinfusion of Aconite.

R. Bruised fresh Aconite

leaves, one part.
Olive oil, two parts.

Heat over a slow fire until the moisture has evaporated, strain, and filter. Paris Codex.

#### Aconite Ointment.

R. Alcoholic extract of aconite, one part.

Lard, two parts.

Recommended as a friction in neuralgia.

Turnbull.

Ointment of Aconite and Chloroform.

R. Tincture of aconite root,
Chloroform, each, two drachms.
Hog's lard, one troyounce.
Mix. Apply to the part and cover with cotton.

Gray.

#### Compound Wine of Aconite.

R. Alcoholic extract of aconite, one drachm. Antimonial wine, one ounce. and macerate for the late slowly into a recomplor until the property (twenty fl. ounces).

Make a solution. Dose, fifteen or twenty drops every three hours, gradually increasing till some effect is produced.

Found beneficial in chronic rheumatism, toothache, neuralgia, etc. Richter.

#### Tincture of Aconite Leaves.

R. Aconite leaves,
powered,
Diluted alcohol,
to obtain by displacement two pints.
U. S. Ph. 1860.

Dose, ten to twenty drops three times a day. The effects should be carefully watched. In rheumatism, neuralgia, etc.

R. Aconite leaves, bruised, one part.
Alcohol of 60 per ct. five parts.
Macerate for five days and filter.

Paris Codex.

#### Tincture of Aconite Root.

R. Powdered aconite

root, twelve troyounces.
Alcohol, sufficient

to obtain by displacement two pints.

U. S. Ph.

Dose, five to eight drops. It is also employed as an embrocation or as an addition to liniments in rheumatism, neuralgia, etc. The tincture of *Brit. Ph.* is nearly one-third, that of *Ph. Germ.* one-fourth the strength of the preceding.

#### Liniment of Aconite Root.

R. Powdered aconite

root, eight troyounces.
Glycerin, one fl. ounce.
Alcohol, sufficient.

Macerate the aconite with four fl. ounces of alcohol for twenty-four hours, then pack it in a conical percolator, and add alcohol gradually, until two pints of tincture have passed. Distil off a pint and a half, and evaporate the residue to seven fluidounces. To this add the glycerin, and mix them.

U. S. Ph.

For painful sprains, bruises, arthritic swellings, neuralgia, etc.

R. Aconite root,
powdered, twenty ounces.
Camphor, one ounce.
Rectified spirit.

Moisten the aconite with some of the spirit and macerate for three days; then percolate slowly into a receiver containing the camphor until the product measures a pint (twenty fl. ounces).

Brit. Ph.

#### Ammoniated Aconite Ointment.

R. Extract of aconite, one drachm. Water of ammonia, ten drops. three drachms. Lard,

Rub the extract and ammonia together until the excess of the latter has evaporated, then add the lard.

Used for the same purposes as the aconite ointment, but more active and pungent.

Turnbull.

#### Mixture of Aconite.

R. Tincture of aconite

leaves, one fl. drachm. Carbonate of sodium, one drachm and a half.

Sulphate of magnesium, one ounce and a half. six fl. ounces. Water, Mix. In gastralgia. A tablespoonful, Fleming. when the pain is urgent.

#### ACONITIA

ACONITIA.

R. Aconite root, in moderately forty-eight troyfine powder,

ounces.

Diluted sulphuric a fl. ounce and acid, a half.

Alcohol, Stronger water each, sufficient. of ammonia, Stronger ether, Distilled water,

Digest the aconite with a gallon of the alcohol for twenty-four hours in a close vessel, transfer to a percolator and obtain twenty-four pints of tincture, distil until one pint is left, to which add a pint of water previously mixed with the acid. Remove the oil and resin, and evaporate to four fl. ounces; agitate this with six fl. ounces of ether to remove more oil and resin, add a slight excess of ammonia, and shake the liquid with three different portions of ether of six fl. ounces each. Mix the ethereal liquids, evaporate spontaneously, and rub the residue to powder. U. S. Ph. the residue to powder.

U. S. Ph.
The processes of Brit. Ph. and Paris Codex

are more complicated, but yield a purer

Not used internally, but successfully employed externally in neuralgia, gout, and rheumatism.

#### Aconitia Ointment.

R. Aconitia, eight grains. Alcohol, half a fluidrachm.

Dissolve, and add,

Prepared lard, one drachm. Brit. Ph. Mix thoroughly.

Employed in neuralgia, by rubbing over the painful parts. A small portion, not exceeding the size of a pea, is to be used at a time. The operation to be repeated three or four times a day.

#### Aconitia Lotion.

eight grains. R. Aconitia, Alcohol, two fl. ounces. Dissolve. Used by means of a frictionsponge over the affected part. Never to be employed where the skin is broken or abraded.

#### ADIANTUM.

#### MAIDENHAIR.

Two species of this genus, A. pedatum and A. capillus veneris, have been much used in Europe as remedies in pectoral affections. They are both bitter and aromatic, but the former is the most active. It is a native of the United States.

Sex. Syst. Cryp. Fil. Nat. Syst. Polypodiaceæ.

Syrup of Maidenhair.

R. Maidenhair, five ounces. Boiling water, fifty ounces. Infuse for six hours, strain, and add for every ten ounces of liquids

nineteen ounces. Sugar, Dissolve in a water-bath. Dorvault. This syrup is known under the name of syrup of capillaire, and is much employed in

### ÆTHER ACETICUS.

France as a pectoral. Dose, a tablespoonful.

ACETIC ETHER.

R. Alcohol (sp. gr. .835), three thousand parts. Acetic acid (sp. gr. 1.063), thousand parts. six hundred Sulphuric acid,

Mix the alcohol and acetic acid in a glass retort, add gradually the other acid, distil in a sand-bath four thousand parts, rectify this product with a small quantity of carbonate of potassium to obtain three thousand

Its sp. gr. is 0.92, Paris Codex; 0.900 to 0.904, Ph. Germ.

This ether is milder, more agreeable and

diaphoretic, than the other ethers. It is used in low fevers, spasmodic vomiting, and cardialgia, in doses of ten drops to a drachm.

#### Spirit of Acetic Ether.

R. Acetic ether,
Alcohol, each,
equal parts.

Mix.

Dorvault.

R. Acetic ether one part.
Alcohol, three parts.

Mix. This is employed as a substitute for Hoffmann's anodyne, in about the same doses.

Giordano.

#### Mixture of Acetic Ether.

R. Acetic ether,
Ethereal tincture of valerian,
Tincture of opium, equal parts.
Mix. Dose, from ten to thirty drops, in
hysteria and hypochondriasis. Radius.

## ÆTHER HYDROCYANICUS.

HYDROCYANIC ETHER.

R. Cyanide of potassium, Sulpho-vinate of barium,

equal parts.

Mix and put in a glass retort, distil by a moderate heat. The product separates into two strata, the lighter of which is impure hydrocyanic ether; this is to be separated and agitated with four or five times its bulk of water at 120° to 140° F., again agitated with a little water, decanted, and placed in contact with chloride of calcium for twenty-four hours, and then distilled.

Sp. gr. 0.78. Magendie.

This preparation is said to resemble hydrocyanic acid in its therapeutical effects, but is less active. Its smell is, however, penetrating and offensive. The dose is one to three drops, in mucilage or emulsion, in obstinate or convulsive coughs. It is scarcely ever used.

## ÆTHER MURIATICUS.

MURIATIC ETHER.

R. Muriatic acid,
Alcohol, equal parts.

Distil in Wolff's apparatus, and preserve the product contained in the second receiver, surrounded by snow and salt.

It has much the same properties as the other ethers. Dose, thirty to forty drops.

#### Spirit of Muriatic Ether.

R. Muriatic ether,
Alcohol, equal parts.
Mix. Dose, half a teaspoonful.

Cottereau.

#### Mixture of Muriatic Ether.

R. Spirit of muriatic ether,

half a fl. drachm.

Parsley water,
Syrup of rhubarb,
fluidounce.

Mix. A teaspoonful every hour for young children as a diuretic. Wendt.

#### Spirit of Chlorated Ether.

#### (Sweet Spirit of Salt. Chlorated Muriatic Ether.)

R. Hydrochloric acid, six parts.
Alcohol, twenty-four parts.
Mix, and pour into a large retort containing

Black oxide of manganese,

in small pieces, sufficient to be not completely covered by the liquid. Distil twenty-five parts, neutralize the distillate with lime-water, and obtain by distillation twenty-one parts. Dose, half a teaspoonful. Ph. Germ.

### ÆTHER (U. S.) — ÆTHER SULPHURICUS.

ETHER. SULPHURIC ETHER.

It is an energetic diffusible stimulant, and is much employed as an excitant and antispasmodic in what are termed nervous disorders. It is also considered to be anthelmintic. In vapor it has been used in small quantities as an inhalation in chronic irritations of the lungs, and to induce unconsciousness to pain in surgical operations. The dose of the fluid is from half a fl. drachm to two drachms. Locally applied it produces a sensation of cold and anæsthesia; if the vapor be confined, it acts as a rubefacient.

Ether is obtained by distilling a mixture of alcohol and sulphuric acid at a temperature of between 266° and 280°; the distillate is agitated with a solution of potassa, and then rectified until it attains the sp. gr. 0.750 (0.735, Brit. Ph.).

## Stronger Ether. Pure Ether.

B. Ether, Water, each, three pints. Powdered chloride of calcium, Powdered lime, each, one ounce. separate the ether and agitate it well with the powders, decant after 24 hours and distil a pint and a half.

Its specific gravity is 0.728 U.S. Ph. and Germ. Ph., 0.720 Brit. Ph., 0.725 Paris

Codex.

# Ethereal Oil. (Oil of Wine.)

R. Stronger alcohol, two pints. fifty-five Sulphuric acid, troyounces.

Mix. Distil at a temperature between 3020 and 315°, till a black froth rises in the retort. Let the distillate, in a shallow capsule, evaporate spontaneously for 24 hours, transfer the residue to a wet filter, wash the oil with distilled water, then measure it and mix it with an equal volume of stronger U. S. Ph.

Its specific gravity is 0.91.

## Spirit of Ether.

## (Hoffmann's Anodyne of Germ. Ph. and Paris Codex.)

one part. R. Ether, Alcohol, three parts. Mix. Ph. Germ.

R. Ether,

Stronger alcohol, each, equal parts. Paris Codex. Mix.

ten fl. ounces. R. Ether. twenty fl. ounces. Alcohol, Mix. Brit. Ph.

### Hoffmann's Anodyne.

half a pint. R. Ether, one pint. Alcohol, six fl. drachms. Ethereal oil, U. S. Ph. Dose, a teaspoonful in sweetened water.

#### Lotion of Sulphuric Ether.

R. Sulphuric ether, two fl. ounces. six fl. ounces. Vinegar, four fl. ounces. Rose water, two pints. Distilled water, Mix. As a lotion to painful inflammatory Pierquin. tumors.

# Syrup of Ether.

R. Ether, Alcohol, each, one troyounce. two troyounces. Water, sixteen troyounces. Syrup, Mix in a glass vessel, having a stopcock at

Shake the ether and water thoroughly, the lower part; shake occasionally for a week, and draw off when clear into small Paris Codex. bottles.

Dose, half an ounce to an ounce.

#### Ether Mixture.

R. Syrup of orange flowers, Orange-flower water, each, one troyounce. Linden-flower water, three troyounces. Ether, thirty-two grains. Mix. Dose, a tablespoonful. Paris Codex.

## Mixture of Ether and Opium.

R. Ether, thirty grains. three hundred grains. Syrup, Syrup of orange flowers, Orange-flower 450 grains. water, each, Water, six troyounces and a half. Paris Codex. Mix.

#### Mixture of Sulphuric Ether and Camphor.

R. Camphor mixture, seven fl. ounces. Sulphuric ether, Syrup of saffron, each, half fl. ounce. Mix. Dose, a tablespoonful.

# Mixture of Sulphuric Ether and Turpentine.

R. Sulphuric ether, one fl. drachm. Oil of turpentine, two fl. drachms. four drachms. Sugar, two fl. ounces. Water, Mix. Two fl. drachms every quarter of an hour in poisoning by nux vomica. Orfila.

# ÆTHER TEREBINTHINATUS.

# TEREBINTHINATED ETHER.

two pounds. R. Alcohol, Spirit of turpentine, half a pound. Mix, and add gradually

two pounds. Nitrie acid, Distil off one-half at a gentle heat. Dose, from twenty to forty drops, in syrup or mucilage. Used internally and externally in cases of biliary calculi, jaundice, engorgements of the liver, and rheumatism.

#### ALBUMINUM.

#### ALBUMEN.

This name is applied to nitrogenated principles contained in animal and vegetable juices; they are coagulated by heat, and become then insoluble in water. Vegetable albumen is not employed in medicine, the variety generally used being the white liquid separated from the yolk of eggs.

## Desiccated Albumen.

R. The whites of eggs, at will. Spread in thin layers on linen or muslin, stretched over a frame and contained in an airy room, well protected from dust; when dry put on a second layer and so on, until the dry albumen becomes detached in scales. Stan. Martin.

# Water of Albumen.

R. The whites of four eggs.

Water, two pints.

Beat first with a little water, then add the remainder, strain and add

Orange-flower water, three drachms.

Mix. A demulcent drink and as an antidote to metallic poisons, particularly corrosive sublimate.

Paris Codex.

#### Iodated Albumen.

R. Powdered albumen, one ounce. water, ten ounces.

Macerate for twenty-four hours; then add to it gradually a mixture of

Water, one ounce. two ounces.

Heat the mixture upon a water-bath, evaporate to dryness and reduce the residue to powder.

Renault.

It forms an inodorous yellowish powder, which swells with water like tragacanth.

# ALETRIS.

#### STAR GRASS.

Aletris farinosa. Linn. Bigelow, Am. Med. Bot. iii. 50. Griffith, Med. Bot. 623. Sex. Syst. Hexandria monogynia. Nat. Syst. Hæmodoraceæ. Brown.

Syst. Hæmodoraceæ. Brown.

A native plant, with an intensely bitter root, which is the officinal portion. The powder is tonic in doses of ten grains.

#### Tincture of Aletris.

R. Aletris root, bruised, three ounces.
Diluted Alcohol, two pints.

Make tincture by displacement. Dose, half an ounce to an ounce in colic, and in smaller doses in chronic rheumatism.

#### ALLIUM.

#### GARLIC.

Several species of Allium have been employed in medicine, but the most important, and that recognized by the Pharmacopæia, is A. sativum. Linn. Griffith, Med. Bot. 653. The part used is the bulb, which is composed of several bulblets or cloves (spicæ), surrounded by a dry, white, thin capsular membrane. These cloves have a peculiar odor, and an acrid and pungent taste. The properties depend on the presence of a volatile oil, and are lost on drying.

Sex. Syst. Hex. monog. Nat. Syst. Liliaceæ. Garlie is a stimulating expectorant; diuretic and diaphoretic when given internally, and acts as an irritant, or even vesicant, when applied externally. The dose in substance is from half a drachm to a drachm, or more.

## Syrup of Garlic.

R. Garlic, sliced and
bruised, six troyounces.
Diluted acetic acid, one pint.
Sugar, twenty-four troyounces.

Macerate the garlic in ten ounces of acid, in a glass vessel for four days, and express. Then add remainder of acid to dregs, and again express. Add sugar and form syrup.

U. S. Ph.

As an expectorant in chronic catarrhs, well suited for children. Dose, for a child, about a teaspoonful.

## Cataplasm of Garlic.

Bruised cloves of garlic, mixed with common bread and milk poultice, in different proportions. Used as a revulsive, but less active than the mustard cataplasm.

#### Liniment of Garlic.

R. Garlic, Lard,

equal parts.

To be well rubbed together. Has been recommended as a revulsive in infantile nervous and convulsive disorders. Gassicourt.

## Capillary Lotion.

R. Garlic, three or four cloves.
Alcohol, two pints.

Macerate for thirty-six hours, filter, and add of

Burdock, eight ounces.

The head to be sponged with this every evening, for some weeks. It is said to be

efficient to promote the growth of hair.

Phæbus.

# ALOE.

#### ALOES.

Under this name are included the inspissated juices of several species of Aloe, and especially of A. vulgaris, A. socotrina, and A. spicata.

Sex. Syst. Hexandria monogynia. Nat.

Syst. Liliaceæ.

Pereira, Mat. Med., ii. 113. Griffith, Med.

Bot., 649.

Three varieties of aloes are found in the shops, the Cape, Socotrine, and Barbadoes. The second, when genuine, is the most esteemed, but the first is by far the most abundant, and, when good, answers every purpose for which the drug is used.

U. S. Dis., art. Aloe.

#### Purified Aloes.

R. Socotrine aloes, twenty-four troyounces.

Stronger alcohol, four fl. ounces.

Melt the aloes by means of a water-bath, add the alcohol, mix and strain through a fine hair sieve, previously moistened with boiling water. Evaporate until it becomes brittle on cooling.

U. S. Ph.

#### Powder of Aloes.

R. Aloes, six grains. White sugar, one drachm. Pulverize very finely. Recommended to be blown in the eye, to remove films and specks on the cornea. Radius.

### Powder of Aloes and Canella.

R. Socotrine aloes in fine
powder, twelve troyounces.
Canella powder, three troyounces.
Mix. Dose, five to fifteen grains. A popular emmenagogue, known as Hiera Picra.
U. S. Ph.

#### Compound Powder of Aloes.

R. Aloes, an ounce and a half.
Guaiacum resin, one ounce.
Compound powder of
cinnamon, half an ounce.

Powder the aloes and resin separately, and then mix them with the compound powder of cinnamon. Dose, ten to twenty grains. Used as a purgative and diaphoretic.

Lond. Ph.

## Emmenagogue Powder.

R. Iron rust,
Powdered aloes,
Magnesia,
Six grains.
two grains.
thirty grains.

Mix. For a single dose, to be repeated three times a day.

Brera.

#### Aloes Pills.

R. Powdered Socotrine aloes,

soap, each, forty-eight grains.

Form a mass with water, to be divided into twenty-four pills. Dose, one to three as a laxative, five or more as a purgative.

U. S. Ph. Brit. Ph. directs confection of roses for one-half of the soap, and adds some volatile oil of nutmeg; pills of Barbadoes aloes are made by the same formula, using oil of caraway in place of oil of nutmeg.

Paris Codex directs two parts of Cape aloes to one of confection of roses, to be made into pills weighing 0.15 gramme

## Compound Pills of Aloes.

R. Powdered aloes, half a drachm.

"rhubarb, one drachm.
Oil of cloves, four drops.
Soap, eight grains.
Syrup of rhubarb, sufficient.

Rub well together, and form forty pills. In tardy menstruation, one at night or oftener if required, so as to open bowels but not to purge.

Dewees.

R. Powdered aloes, one ounce.
Extract of gentian, half an ounce.
Oil of caraway, forty minims.
Molasses, sufficient.

Beat together till incorporated. Lond. Ph. Dose, five to fifteen grains. A valuable purgative in habitual costiveness.

### Aloes and Assafcetida Pills.

R. Powdered Socotrine aloes,
Assafætida,
Soap, in powder,

Assafætida,

Beat with water to form a mass; divide into twenty-four pills. Dose, two to five. Useful in costiveness with flatulency.

U. S. Ph.

R. Socotrine aloes, in powder,
Assafætida,
Hard soap, in powder,
Confection of roses,

two grains. Beat together until thoroughly mixed. thirty grains. Dose, five to ten grains. Brit. Ph.

## Aloes and Myrrh Pills.

R. Purified aloes, in fine forty-eight grains. powder, Myrrh, in fine powder, twentyfour grains. Aromatic powder, twelve grains. sufficient. Syrup, Beat together, to form a mass; divide into U. S. Ph. twenty-four pills.

Dose, from three to six. A well-known cathartic and emmenagogue, under the

name of Rufus's pills.

R. Socotrine aloes, two ounces. Myrrh, one ounce. Saffron, dried, half an ounce. Confection of rose, two ounces and a half.

Reduce the first three articles to powder, and beat with the confection into a uniform mass. Dose, five to ten grains.

Brit. Ph.

#### Aloes and Iron Pills.

R. Powdered aloes, Exsiccated sulphate of

iron, each, equal parts. Mix, and with alcohol form pills, each weighing 0.1 gramme. Known as black Italian pills. Ph. Germ.

R. Barbadoes aloes, powdered, two ounces. Sulphate of iron, one ounce and a half.

Comp. cinnamon powder, three ounces. Conserve of roses, four ounces. Pulverize the sulphate of iron, mix the whole ingredients, and beat into a uniform mass. Dose, five to ten grains. Brit. Ph.

A useful emmenagogue in chlorosis and

atonic amenorrhœa.

# Chapman's Aperient Pills.

R. Aloes, sixteen grains. Powdered rhubarb, twenty-four grains. Mastic, twelve grains. Mix, and make twelve pills. Chapman.

#### Chapman's Anti-Dyspeptic Pills.

R. Aloes, half a drachm. Powdered ipecacuanha, ten grains. Mastic. thirty grains. Oil of fennel, eight drops. Mix, and make twenty pills.

## Mitchell's Aperient Pills.

R. Aloes, sixteen grains. Powdered rhubarb, thirty-two grains. Calomel, two grains. Tartar emetic, one grain. Mix, and make sixteen pills.

J. K. Mitchell. Two or three pills act as an aperient.

#### Hooper's Pills.

R. Aloes, four hundred parts. Crystallized sul-

phate of iron, two hundred parts.

Extract of black hellebore, each, one hun-Myrrh, dred parts.

Soap,

Powdered canella,

Powdered ginger, each, fifty parts. Beat into a mass with water, and divide into pills of two and a half grains.

Much used as a cathartic and an em-

menagogue.

Journ. Phil. Coll. Pharm., v. 25.

#### Anderson's Pills.

seven hundred and R. Aloes, eighty-seven parts. one hundred and Soap, thirty-one parts.

Colocynth,

Gamboge, each, thirty-three parts. Oil of aniseed, sixteen parts.

Reduce the aloes, colocynth, and gamboge to a very fine powder, add oil of aniseed and soap, and beat into a mass with water; divide into three grain pills. A mild purgative. Journ. Phil. Coll. Pharm., v. 25.

#### Pills of Aloes and Mastic.

R. Socotrine aloes, forty-eight grains. Mastic,

twelve Red rose-leaves, each, grains.

Beat with water into a uniform mass, and divide into twenty-four pills. Known as Lady Webster's dinner pills, and used as a laxative in costiveness dependent on impaired digestion. Dose, one to three. U.S. Ph.

#### Morrison's Pills.

No. 1. R. Aloes, Cream of tartar, equal parts. Mucilage, sufficient

Chapman. to form mass.

No. 2. R. Aloes, three parts.
Gamboge, two parts.
Colocynth, one part.
Cream of tartar, four parts.

Powder finely, and add

Simple syrup, sufficient to form mass. Dose, five to ten grains. These purge actively, especially No. 2.

Cooley.

#### Fuller's Pills.

half a drachm. R. Aloes, Senna, Myrrh, each, one scruple. Assafetida, Galbanum, each, ten grains. Saffron, Mace, each, five grains. Sulphate of iron, two scruples. Simple syrup, sufficient to form mass. Dose, five to fifteen grains, used as an antispasmodic and aperient.

Cooley.

# James's Analeptic Pills.

R. Antimonial powder, Resin of guaiacum,

Aloes and myrrh pill, equal parts. Syrup, sufficient.

Form a mass, and divide into four grain pills. A diaphoretic purgative. Cooley.

#### Peters's Pills.

R. Aloes,
Jalap,
Scammony,
Gamboge,
Calomel,
One drachm.

Beat into a mass with alcohol. A powerful purgative. Three pills, containing three grains each, constitute a full dose. Cooley.

## Speediman's Pills.

R. Aloes, Myrrh,

Rhubarb, each, one ounce. Extract of chamomile, half an ounce.

Beat into a mass with syrup, and divide into four grain pills. A good tonic and stomachic purge.

Burnett.

# Splenetic Pills.

R. Strained aloes, Gum ammoniac, each, an ounce and a half. Myrrh,
Bryony, each, two drachms.

Beat into a mass, and divide into four grain
pills. Does three to five Extelled in

pills. Dose, three to five. Extolled in amenorrhœa and hypochondriasis.

Saunders.

#### Duchesne's Pills.

R. Aloes,

Gum ammoniac, each, twenty-four grains.

Myrrh, six grains.
Mastic,

Carbonate of potassium, each, two

Saffron, grains.
Simple syrup, sufficient

to make a mass. Dose, from ten to twenty grains. Prescribed in engorgements of the abdominal viscera, supervening on intermittent fevers. Van Mons.

# Stahl's Aperient Pills.

R. Powdered aloes, forty grains.
Extract of colocynth, twenty grains.
Powdered iron, ten grains.
Syrup, sufficient sufficient form mass. Divide into forty pills and roll in powdered cinnamon. Dose one or two at bedtime.

#### Antichlorotic Pills.

R. Aloes.

Iron rust, each, half a drachm.
Gum ammoniac, one drachm.
Extract of dandelion, sufficient
to form mass. Divide into pills of three
grains each. Dose, three to six, morning
and evening, in chlorosis and amenorrhea.

Radius.

#### Bicker's Pills.

R. Iron rust, two drachms.

Sulphur, Myrrh, Aloes, Beef gall, sufficient to form mass. Divide into four grain pills. Six, morning and evening. Radius.

## Whytt's Pills.

R. Chloride of iron,
Aloes,
Extract of horehound,
Assafetida, one drachm and a half.

ALOE. 111

Form a mass. Divide into two grain pills. Dose, four to five, three times a day, in leucorrhœa and hysteria with constipation.

Radius.

Barthez's Pills.

R. Aloes,
Myrrh,
Musk,
Camphor,
Balsam Peru,
to form mass. Dose, eight grains, three times a day. Advised in amenorrhæa and chlorosis.

half a drachm.
twenty grains.
ten grains.
sufficient
to form mass. Dose, eight grains, three times a day.
Advised in amenorrhæa and chlorosis.

Pierquin.

# Pitschaft's Eccoprotic Pills.

R. Strained aloes,
Sulphate of quinia,
each,
one scruple.
Mix, and divide into twenty pills. Dose,
one at bedtime. Found useful in torpor of
the large intestines.
Radius.

#### Frank's Pills.

R. Aloes,
Jalap, each,
Rhubarb,
Syrup of wormwood,
to form mass. Divide into three grain pills.
Dose, one to four during the day.

These are the Grains de Santé, so much employed as dinner pills in Europe. Foy.

#### Aloes and Rhubarb Pills.

R. Powdered aloes,
Rhubarb, each, half a drachm.
Soap, sufficient
to form mass. Divide into twenty-five pills.
Three or four occasionally in dyspepsia with costiveness.

Ellis.

#### Aperient Pills.

R. Aloes,
Rhubarb, each, one drachm.
Ipecacuanha, six grains.
Soap, one scruple.
Form mass with water, and divide into sixty
pills. Dose, one at bedtime. as an aperient;
two or three as a purgative.

Ellis.

#### Pills of Aloes and Blue Mass.

R. Blue mass, one scruple. Hone Powdered aloes, twenty-five grains. Incorporate, and divide into fifteen pills.

Dose, one every two hours till they operate. Useful in constipation where there is a deficiency of bile.

Ellis,

## Laxative Electuary.

R. Aloes, eight grains.
Cream of tartar, two drachms.
Honey, sufficient
to form electuary. For a single dose. Advised in amenorrhæa attributed to abdominal engorgement.

Brera.

#### Extract of Aloes.

R. Powdered aloes, one part.
Distilled water, four parts.
Macerate for two days with occasional agitation, strain, evaporate to dryness and pulverize.

Ph. Germ.

R. Socotrine aloes in

fragments, one pound.
Boiling distilled water, ten pounds.
Macerate for twelve hours, decant, strain, and evaporate. An extract of Barbadoes aloes is prepared by the same process.
Dose, two to six grains.

Brit. Ph.

## Extract of Aloes with Sulphuric Acid.

R. Extract of aloes, one troyounce.
Distilled water, four fl. ounces.
Dissolve and add gradually

Pure sulphuric

acid, sixty grains. Evaporate in a procelain capsule to dryness.

Ph. Germ.

#### Pills of Extract of Aloes.

R. Extract of aloes, thirty grains.
Extract of nux vomica, six grains.
Extract of hyoscyamus, twenty
grains.

Powdered ipecacuanha, one grain.

Make twenty pills. Dose, one at night in habitual constipation.—Pilulæ salutis.

Van Buren.

# Anthelmintic Suppository.

R. Aloes,
Common salt,
Flour,
Honey,
to form a firm paste, to be divided into twelve suppositories.
Used in cases of ascarides.

half an ounce.
three drachms.
two ounces.
sufficient
two divided into Used in cases of Foy.

## Compound Decoction of Aloes.

R. Extract of Socotrine aloes, one hundred and twenty grains. Carbonate of potassium,

sixty grains.

Myrrh,
Saffron, each, ninety grains.
Extract of liquorice, one ounce.
Compound tincture

of cardamom, eight fl. ounces.
Distilled water, sufficient.

Rub the dry ingredients, except the saffron, together, boil gently for five minutes with a pint (imperial) of distilled water, add the saffron, cool, add the tincture, macerate for two hours, filter through flannel, and wash the strainer with distilled water o obtain thirty fl. ounces. Dose, half a fl. ounce to two fl. ounces. A mild cathartic, tonic, antacid, and emmenagogue. Brit. Ph.

# Clauder's Elixir.

R. Carbonate of potassium,
Chloride of ammonium,
each,
each,
Elder-flower water, a pint and a half.
Make a solution, and add

Strained aloes,
Myrrh, each,
Saffron,
two drachms.

Digest for twenty-four hours, and filter. Dose, half a drachm to a drachm. Has been recommended in obstructions of the abdominal viscera, in amenorrhœa, constipation, scurvy, etc. Pideret.

#### Enema of Aloes.

R. Aloes, forty grains. Carbonate of potassium,

Mucilage of starch, ten fl. ounces.

Mix and rub together.

Brit. Ph.

#### Detersive Injection.

R. Strained aloes, ten grains. Chloride of ammonium,

Honey of roses, one ounce.
Fennel water, six ounces.
Make solution, and filter. Stated to be

useful in chronic discharges from the urethra, to be injected three or four times a day. Soubeiran.

#### Anthelmintic Clyster.

R. Powdered aloes, one drachm. Barley water, one pint.

Mix. Very effectual against ascarides in the rectum. Radius.

#### Aloetic Mixture.

R. Strained aloes,
Myrrh, each,
Cream of tartar,
Myrrh water,
Make a solution, and filter.
Six ounces.
Make a solution, and filter.
Spoonful night and morning, to provoke hemorrhoids.

Foy.

#### Alkaline Mixture of Aloes.

B. Aloes, two ounces and a half.
Bicarbonate of sodium, six ounces.
Compound spirit of
lavender, two fl. ounces.
Water, four pints.
Mix. Macerate for two weeks, and filter.
Dose, from one fl. drachm to one fl. ounce, half an hour after meals, for persons of a costive habit.

Mettauer.

## Wine of Aloes.

R. Socotrine aloes, in powder,
one troyounce.
Cardamom, in powder,
Ginger, in powder,
each,
each,
Sherry wine,
one pint.
Macerate for seven days, occasionally agi-

tating, then filter. U.S. Ph.
This wine of Brit. Ph. is three-fifths the strength of the above.

Purgative, in doses of half an ounce to two ounces; stomachic and tonic, in doses of one to two drachms.

#### Alkaline Wine of Aloes.

R. Aloes,
Myrrh,
Saffron,
Carbonate of potassium,
Wine,
Digest for ten days, and filter. Bitter,
tonic, and stimulant. Recommended in dyspepsia with pyrosis, in doses of an ounce.

Swediaur.

#### Balsamic Wine of Aloes.

R. Aloes,
Myrrh,
Olibanum,
Angelica,
Balsam Peru,
each, half an ounce.

113 ALOE.

Storax, two ounces. Benzoin, three ounces. Flowers of hyperifour handfuls. Wine, four pints. Macerate for fourteen days, and strain. Dose half an ounce.

## Tincture of Aloes.

R. Powdered Socotrine

one troyounce. aloes, three troyounces. Liquorice, Alcohol, half a pint. Distilled water, one pint and a half.

Macerate seven days, and filter. Dose, one drachm to an ounce. Purgative and stomachic. U. S. Ph.

The tincture of Brit. Ph. is rather less than two-thirds, the strength of the preceding, but is made with proof spirit.

R. Cape aloes, one part. Alcohol, 60 per ct. five parts. Macerate for eight days and filter.

Paris Codex and Ph. Germ. Dose, ten drops to one drachm.

Compound Tincture of Aloes.

R. Aloes, nine parts. Gentian, Rhubarb, each, Zedoary, cut and bruised, Saffron, one part. Agaric, Alcohol (sp. gr. .892), hundred parts.

Digest for a week and filter. Ph. Germ. Dose, half to one drachm. Much used in Europe under the name of elixir of life.

#### Tincture of Aloes and Myrrh.

R. Socotrine aloes,

Myrrh, each, in powder,

three troyounces. No. 50, Alcohol, sufficient.

Obtain by displacement two pints.

U. S. Ph. The pharmacopæia for 1850 directed one troyounce of saffron in addition to above.

R. Aloes, Myrrh, each, in coarse powder, two parts. Powdered saffron, one part.

Alcohol, twenty-four parts. Diluted sulphuric acid, two parts. Macerate for eight days and filter.

Ph. Germ. Long celebrated under the name of elixir proprietatis Paracelsi. It is purgative, stomachic, and emmenagogue. The dose is half a drachm to a drachm. Well suited to cold, torpid habits.

#### Ethereal Tincture of Aloes.

R. Myrrh, one ounce and a half. Spirit of sulphuric

> ether, one pound.

Digest for four days, and add

Aloes, one ounce and a half. Saffron, one ounce.

Again digest for four days, and filter.

Edin. Ph. 1817.

This tincture has been highly esteemed as stomachic, vermifuge, and emmenagogue, in doses of half a drachm to a drachm.

## Boerhaave's Elixir.

R. Aloes, Myrrh, each, one ounce. Saffron, Tartrate of potassium, two ounces. Alcohol, fourteen ounces. Distilled water, eight ounces.

Macerate for three days, and filter.

Han. Ph. This has been highly praised in visceral obstructions. The dose is from half a drachm to a drachm.

## Stoughton's Elixir.

R. Aloes, Cascarilla, each, one drachm. Rhubarb, four drachms. Wormwood, Germander, each, six drachms. Gentian,

Orange peel, Alcohol, two pints.

Macerate for four days, and filter. Stimulant, tonic, and stomachic, in doses of twenty or thirty drops.

# Spirit of Garus.

R. Saffron, each, Socotrine aloes, one hundred grains. Cloves, Myrrh, forty grains. Cinnamon, four hundred grains. two hundred grains. Nutmeg,

Alcohol (sp. gr. 0.864), pints.

Macerate for four days, filter, add three pints of water, and distil sixteen pints.

Paris Codex.

This is used only for preparing the following.

#### Elixir of Garus.

R. Spirit of garus, three pints. Vanilla, twenty grains. Saffron, ten grains. Macerate for two days and strain. Prepare an infusion of

Maidenhair, four hundred grains. Boiling water, twenty fl. ounces. Express, strain, and add

forty troyounces. Sugar, Make a syrup and mix it with the above spirit, and with

Orange-flower water, eight ounces.

Paris Codex.

This preparation is an agreeable liquor, which is used in medicine mainly as a vehicle.

# Suppositories of Aloes.

R. Purified aloes in powder, No. 80, sixty grains. Oil of theobroma, three hundred grains.

Make twelve suppositories. U. S. Ph. As a purgative and for seat-worms.

#### Ointment of Aloes.

R. Powdered aloes, two drachms. Lard, one ounce.

Triturate well.

Has been recommended as a friction to the abdomen as a vermifuge in children.

Soubeiran.

# ALTHÆA.

#### MARSH MALLOW.

Several species of Mallow are employed in medicine, but that which is officinal is A. officinalis, a herbaceous perennial, with pale purplish flowers, a native of Europe, in moist situations.

Sex. Syst. Monadelph. Polyand. Nat. Syst.

Malvaceæ.

Linn. Sp. Pl. 966. Griffith, Med. Bot. 161. The parts used are the roots and leaves. These are inodorous, and have a vapid mu-

sixteen | in Europe as demulcent and emollient, but their place is supplied in this country by other articles.

#### Decoction of Marsh Mallow.

R. Marsh mallow root,

dried, four ounces. Raisins, stoned, two ounces. Boiling water, five pints. Boil down to three pints. Strain, and set aside until the dregs have subsided, and Ed. Ph.

A good demulcent drink.

## Syrup of Marsh Mallow.

R. Marsh mallow root, fifty parts. Cold water, three hundred parts. Macerate for twelve hours, strain without expression, and add

fifteen hundred parts. Syrup, Evaporate to the proper consistence, and Codex.

R. Marsh mallow root. one part. Wash with cold water and macerate for two hours in

Cold water, twenty parts. Strain without expression, and in fifteen parts of the colature dissolve

Sugar, twenty-four parts. A good demulcent. Much used in France and Germany. Ph. Germ.

#### Pectoral Species.—Pectoral Tea.

R. Marsh mallow root, eight parts. Liquorice root, three parts. Orris root, one part. four parts. Coltsfoot leaves, Mullein flowers,

Star anise, each, two parts.

Mix the articles, previously cut.

Ph. Germ.

### Pectoral Tea with Fruit.

R. Pectoral species, sixteen parts. St. John's bread, cut, six parts. Pearl barley, four parts. Figs, cut, three parts. Ph. Germ.

The above are popular remedies for colds, etc., in Europe.

## Marsh Mallow Paste.

The paste formerly made of one part each of powdered marsh mallow root and cilaginous taste. They are much employed wheat flour, and two parts of sugar, is no longer used; in its place, but under the same name, the equally efficient gum paste is officinal. See pages 84 and 85.

## Marsh Mallow Lozenges.

R. Marsh mallow root, ten parts. Water, forty parts. Boil, strain and evaporate the decoction to nine parts; then add

Tragacanth, one part. To form a mucilage; incorporate with

one hundred parts. Form into lozenges of fifteen grains each. Paris Codex.

#### Marsh Mallow Ointment.

Ointments containing concentrated decoctions of marsh mallow and other mucilaginous drugs, are inelegant preparations, and their use is discontinued. In their stead the following ointments are officinal under the above title, though not containing any marsh mallow.

R. Resin, one part. Yellow wax, two parts.

Melt together and add

Common turpentine, one part. Oleo-infusion of fenugreek, eight parts.

Mix. Paris Codex.

R. Powdered turmeric, one part. Lard, fifty parts. Digest for half an hour, and add

Yellow wax, Resin, each, three parts. Melt together and strain. Ph. Germ.

#### Powder of Marsh Mallow.

R. Powdered mallow root.

liquorice root, each,

three ounces.

66 half an ounce. nitre. camphor, one drachm.

Mix, and divide into thirty powders; one to be taken three times a day. Foy.

# ALUMINA.

#### ALUMINA.

The hydrate of aluminium is found naturally in an impure state in the form of dif-

# Hydrate of Aluminium.

R. Alum, ten parts. Carbonate of sodium, nine parts. Distilled water, sufficient. Dissolve the salts separately each in eighty parts of hot water, mix the solutions, wash the precipitate well, express, dry, and Ph. Germ. Used externally as an absorbent and as-

tringent.

# Rust's Astringent.

R. Armenian bole, Carbonate of magnesium, White sugar, each, two drachms. Oil of mace, two drops. Rhubarb, one drachm.

Mix, and triturate well. Dose, a teaspoonful three times a day, in chronic gonorrhea, vaginal and uterine catarrh, and slight menorrhagia.

## Electuary for the Teeth.

R. White bole, an ounce and a half. Gum lac, half an ounce. Cinnamon, a drachm and a half. Syrup of pinks, sufficient to form soft paste. Triturate well together and keep in closed boxes. Used as a dentifrice, but is also beneficial in scorbutic gums. Swediaur.

# ALUMINII ACETAS. ACETATE OF ALUMINIUM.

R. Alum, a sufficient quantity. Dissolve in water, precipitate by means of aqua ammoniæ, filter, and dissolve the moist precipitate in acetic acid; again filter, and evaporate.

This has been recommended diluted with water in chronic diarrhoea, and mixed with syrup of poppies in slight cases of hemoptysis. Dose, three to five grains. Van Mons.

# ALUMINII SULPHAS.

SULPHATE OF ALUMINIUM.

R. Alum, Carbonate of sodium, four troyounces. Sulphuric acid, six hundred and thirty grains. Water,

Dissolve the salts each in six fl. ounces of ferent clays, boles, etc., and can be prepared water, pour the alum into the soda solution, in a pure state by the decomposition of alum. and digest until carbonic acid ceases to be well, dissolve in the acid previously diluted with half a pint of water, filter and evaporate finally in a water-bath until a dry salt U. S. Ph.

It is deliquescent, and has strongly astrin-

gent properties.

Detergent Wash.

R. Sulphate of aluminium, two drachms.

Water, half a pint.

Mix. As a wash to foul ulcers.

Pennypacker. M. Gannal has found that a solution of this salt, made with about a pound to the quart of water, will preserve a body fresh for a long time, if injected into the bloodvessels; where it is only wished to preserve the body for a month or six weeks, an enema of one quart, and an injection of about a quart into the œsophagus, are suf-Dunglison, N. R.

## ALUMEN.

#### ALUM.

The U.S. Ph. recognizes the sulphate of aluminium and ammonium, and also the sulphate of aluminium and potassium. Most of the foreign pharmacopæias employ the latter only. All commercial varieties of alum contain more or less sulphate of iron. Most of that used in this country is of domestic manufacture.

Alum is employed both internally and externally as an astringent, in doses of ten

grains to a scruple or more.

## Burnt Alum.

R. Alum in coarse

powder, four troyounces.

Heat to not above 400° until the residue weighs two and a quarter troyounces; then U. S. Ph. rub into powder.

This gives a loss of water equal to nearly forty-four per cent. Brit. Ph. continues the heat until the loss amounts to forty-seven

per cent.

Astringent, and a mild escharotic. It is much used to repress the growth of exuberant granulations or proud flesh. Dose, five to ten grains.

#### Powder of Alum.

R. Alum, one drachm. half a drachm. Gum Arabic, Triturate, and divide into four powders, one to be taken every three hours in atonic to make ten boluses. Dose, one every three Radius. or four hours. hemorrhage.

given off. Collect the precipitate, wash it R. Alum, a drachm and a half. one drachm. Catechu, Armenian bole, one ounce. Triturate well. To arrest hemorrhages. Dose, a teaspoonful. Van Mons.

> four ounces. R. Alum, Kino, one ounce. Triturate well. This is the Saccharine Alum of the continental writers. Dose, ten to twenty grains, in hemorrhages or diarrhœa. Ed. Ph.

> thirty grains. R. Alum, Powdered opium, three grains. Mix, and make six powders, one to be taken every four hours. A. T. Thomson.

> one drachm. R. Alum, Powdered opium, four grains. cinnamon, one scruple. Mix and triturate, divide into four powders,

> one to be taken every four hours, in menorrhagia or in diarrhœa. Radius.

> R. Alum, two drachms. Powdered opium, three grains. kino. one scruple. one drachm. Sugar of milk,

> Mix, triturate, and divide into six powders. One to be taken every three hours, in fluxes. Phæbus.

#### Alum Errhine.

R. Alum,

Armenian bole, each, one drachm. half a drachm. Red oxide of iron, two drachms.

Mix, and triturate. As an errhine in epis-Radius. taxis.

#### Boluses of Alum.

R. Alum,

Extract of Peruvian bark, half a scruple. Nutmeg, each, Simple syrup, sufficient

to make a bolus. Prescribed in uterine and other hemorrhages, and repeated as Ellis. may be required.

five grains. R. Alum, Extract of rhatany, eighteen grains.

Conserve of roses, half a drachm. Syrup of rhatany, sufficient

#### Alum Pills.

six grains. R. Alum, one grain. Extract of opium, six grains. Catechu, Mix, and form into six pills. One to be

given every two to four hours. In passive hemorrhages and atonic mucous discharges. Ellis.

two drachms. R. Alum, Kino.

Honey of roses, each, one drachm. Make pills, of six grains each. Dose, one to six a day, in passive hemorrhages. Foy.

R. Alum, Extract of Peruvian bark, Chloride of iron and ammonium, Aromatic powder, each, a drachm and a half.

twelve drops. Oil of cinnamon, Mix, and make pills of two grains. Dose, four to six, morning and evening, in passive hemorrhages and mucous discharges.

Augustin.

# Astringent Pills of Alum.

R. Alum, Catechu. equal parts. Extract of gentian, sufficient to make pills of two grains each. Dose, four every three hours. Useful in diarrhœa, and especially in leucorrhœa.

#### Pills of Alum and Benzoic Acid.

R. Alum, one scruple. Benzoic acid, five grains. Gum Arabic,

White sugar, each, ten grains. Mix, with sufficient water to form thirty-five pills, to be taken in two days. Have been thought useful in phthisis pulmonalis.

Augustin.

#### Electuaries of Alum.

R. Alum, one drachm. Catechu, Extract of Peruvian bark, each, two drachms. Conserve of roses, six drachms. Simple syrup, sufficient to make an electuary. Dose, one drachm every four hours. In chronic diarrhœa,

leucorrhœa, and passive hemorrhages. St. Marie.

R. Alum. one drachm.

Balsam Peru, six drops. Water of sage, sufficient. Make an electuary. Astringent and antiseptic. Recommended in sponginess of the gums. Phœbus.

# Alum Collyrium.

R. Alum, twelve to twenty grains. Rose water, four fl. ounces. Dissolve. As an application in chronic ophthalmia. Ellis.

#### Alum Curd.

R. Powdered alum, half a drachm. White of egg, Agitate well till a coagulum is formed. To be applied on a rag to inflamed eyes. To be removed when it becomes warm. Ellis.

# Pagliari's Hæmostatic Mixture.

R. Benzoin in tears, one hundred grains. Stronger alcohol, half a troyounce.

Dissolve, and add

Water, ten troyounces. Alum, one troyounce. Boil until clear, cool, and filter.

De Meyer. Used as a powerful hæmostatic, and for the preservation of animal matters, by immersing and afterwards drying them.

#### Odontalgic Solution of Alum.

R. Finely powdered alum, two drachms. Spirit of nitric ether, seven fluidrachms. Dissolve. Stated to be an almost infallible cure for toothache. Blake.

## Solutions of Alum.

R. Alum, one drachm. Sulphate of zinc, half a drachm. Borax, four grains. Rose water, six ounces. Dissolve. Used as an astringent in bruises, slight hemorrhages, and mucous discharges. Cadet de Gassicourt.

half a drachm. R. Alum, Armenian bole, six drachms. Vinegar, Red wine, each, half an ounce.

Extract of logwood, half an ounce. Mix the powdered bole in the solution of

the alum in the vinegar, and add the wine. Infuse for half an hour, strain, and add to Used as a local application in epistaxis.

Swediaur.

# Gargles of Alum.

R. Alum,

Nitrate of potassium,

three ounces. Cream of tartar, four ounces. Acetic acid, four pounds.

Dissolve, evaporate to dryness, and powder the residuum. Half an ounce, dissolved in eight ounces of water, forms a gargle which has been highly praised in inflammation of the fauces and tonsils. Wirtem. Ph.

two drachms. R. Alum, Water, four fl. ounces. Dissolve. Said to be useful where the breath is offensive. Cavarra.

R. Alum, one drachm. Wine, one pound. Tineture of bark, four fl. drachms. myrrh, two fl. drachms. Honey of roses, two ounces. Laudanum, one fl. scruple. Mix. As a gargle in scurvy of the gums.

R. Alum, one drachm. Infusion of red roses, Barley water, each, three

fluidounces.

Add to the solution

Honey of roses, two fl. ounces. Ratier.

R. Powdered oak-bark, one ounce. Boiling water, a pint and a half. Evaporate to one pint, filter, and add

Alum. half a drachm. Brandy, two fl. ounces. Used as a gargle in inflammation of the mouth and throat. Augustin.

## Injections of Alum.

R. Alum, one drachm. Rose water, two fl. ounces. Mix. In chronic gonorrhœa.

R. Alum, Sulphate of iron, each, twelve grains. Honey of roses, one ounce.

Barley water, five fl. ounces. Mix. In chronic gonorrhea. Radius.

R. Stramonium leaves, half an ounce. Boiling water, two pints.

infusion

Alum, two drachms, to an ounce. In cancerous affections of uterus.

Alum Injection.

R. Infusion of flaxseed, fifteen fluidounces. Alum, two drachms. Tincture of kino. one ounce. Mix. As an injection in cauliflower excrescence of the uterus. Clarke.

# Julep of Alum.

R. Alum, two drachms. Sulphuric acid, ten drops. Essence of citron, six drops. Syrup of lemon, two fl. ounces. Water, three fl. ounces. Mix. A tablespoonful every hour, in lead

colic.

#### Alum Liniment.

R. Alum, half an ounce. Whites of eggs, four. Spirit of camphor, two ounces. Mix. As an application to bed sores.

Augustin.

## Lotions of Alum.

R. Alum.

Sulphate of zinc, each, two drachms. Plantain water, two pints.

Mix. As a wash to wounds and bleeding Cadet de Gassicourt. ulcers.

R. Alum, three drachms. Chloride of ammonium,

one drachm.

Liquid hydrosulphuric

acid, one scruple. Rose water. half a pint. Mix. As a wash, in obstinate cutaneous affections. Alibert.

#### Alum Whey.

R. Boiling milk, one pint. Powdered alum, a drachm and a half.

Mix, separate the curd, and add to the whey

White sugar, one ounce. Dissolve. In passive hemorrhages. A wineglassful occasionally, to be taken cold.

# Aromatic Alum Whey.

R. Powdered alum, one drachm.
Sugar of milk, half a drachm.
Powdered cinnamon, fifteen grains.
Cow's milk, a pint and a half.

Boil and strain after coagulation. To be taken in cupful doses, cold, in hemorrhages. Niemann.

## Alum Draughts.

R. Alum, one to two drachms.

Syrup of gum, two ounces.

Distilled water, four fl. ounces.

Mix. Dose, a wineglassful every six hours,

in lead colic and uterine hemorrhages.

Guibourt.

R. Alum, two drachms.
Wine, four fl. ounces.
Gum tragacanth,
Catechu, each, a drachm.
Water, eight fl. ounces.
Mix. One or two spoonfuls every hour in lead colic.

Radius.

# Anglo-Saxon Ointment.

R. Red lead,
Olive oil,
White wax,
Powdered amber,
Burnt alum,
Camphor,

Red lead,
each, one pound.
each,
two drachms.

Heat the oil until it becomes of a reddishbrown color, add the red lead and continue the heat; when the mass has the consistence of a plaster, add the amber, and finally, when it cools, the alum and camphor. Highly spoken of as a dressing to foul ulcers.

Niemann.

#### Ointment for Chilblains.

R. Sweet almonds, blanched,

Honey, six ounces.

Camphor, Flour of mustard, Burnt alum, olibanum, two ounces.

Yolks of eggs, three.

Triturate well. This paste is to be thinned in a little water, and rubbed on the inflamed parts night and morning, and then washed off in tepid water, and afterward the parts well dried with a linen cloth. Swediaur.

### Rust's Ointment.

R. Alum, a drachm and a half.

Camphor,
Opium, each, a scruple to half
a drachm.

Balsam Peru, one drachm.
Lead ointment, half an ounce.

Triturate well together. Found useful as an application to frosted limbs. Phæbus.

#### Pile Ointment.

R. Powdered alum, four scruples. Simple cerate, five ounces and a half.

Mix, and triturate well. As an application to painful hemorrhoids. Taddei.

# AMMONIACUM.

#### AMMONIAC.

This gum-resin is found in the shops, either in whitish or yellowish tears, or in yellowish or brownish masses. It has an unpleasant odor, and a nauseous and somewhat bitter taste. It is the product of Dorema ammoniacum, Don.

Pereira, Mat. Med. ii. 489. Griffith, Med.

Bot. 325, 331.

Its effects on the system are somewhat like those of assafetida, and appear to be most marked on the bronchial mucous membrane. It also is considered to be emmenagogue. The dose is from six to twelve grains. It is employed externally as a resolvent.

#### Purified Ammoniac.

R. Ammoniac, in small

pieces, three parts. Water, two parts.

Digest in a tared capsule until the gumresin is completely divided, add sufficient stronger alcohol to form with the water of the emulsion a menstruum of sixty per ct. alcoholic strength; boil for a minute, strain with expression through a moderately coarse muslin, and evaporate by means of a water-bath to the proper consistence.

Paris Codex.

#### Ammoniac Pills.

R. Ammoniac, one drachm.
Syrup of gum. sufficient
to make thirty-six pills. Soubeiran.

R. Ammoniac,
Myrrh, each, two drachms.
Extract of horehound, one drachm.
" liquorice, three
drachms.

Mix. Make two grain pills. Dose, four to ten every three hours. Augustin.

R. Ammoniac, one ounce.
Sagapenum, two ounces.
Elixir proprietatis, sufficient
to make four grain pills. obstructed menstruation.

As a remedy in
Bories.

R. Ammoniac, two drachms.
Soap, one drachm.
Oil of juniper, twenty drops.
Mix, and form pills of two grains.

Augustin.

#### Klein's Pills.

R. Ammoniac,
Extract of centaury,
each, half an ounce.
Soap, one ounce.
Oil of amber, ten drops.
Triturate, and make pills of two grains.
Spielman.

## Pills of Ammoniac and Rhubarb.

R. Ammoniac, Soap, Rhubarb, each, two drachms.

Triturate, and make with water three grain pills. Dose, two pills, three to four times a day.

Tissot.

#### Compound Ammoniac Pill.

R. Ammoniac, one drachm.
Blue pill, fifteen grains.
Powdered squill, six grains.
Simple syrup, sufficient.
Mix, and make sixteen pills. One, three times a day, in asthmatic cough with hepatic derangement.

Ainslie.

#### De Haen's Pills.

R. Ammoniac, Pil. aloes and myrrh, each, one

drachm.
Soap,
Extract of conium, each, a drachm

and a half.

Triturate, and form into three grain pills. Dose, four a day, in chlorosis and amenor-rhea. St. Marie.

#### Ammoniac Mixture.

R. Ammoniac, two drachms.

Water, half a pint.

Rub the ammoniac with the water gradually added, until they are thoroughly mixed.

U. S. Ph.

The dose is from one to two tablespoonfuls.

## Compound Ammoniac Mixture.

R. Ammoniac, one drachm. Distilled water, four fl. ounces.

Make a mixture, and add

Oxymel of squills, two fl. ounces.
Paregoric elixir, half a fl. ounce.
Mix. A tablespoonful every two hours, as a stimulating expectorant.

Ellis.

R. Ammoniac mixture, five fl. ounces.
Oxymel of squills, half a fl. ounce.
Antimonial wine, twenty-six
minims.

Distilled vinegar, three fl. drachms.

Mix. A tablespoonful occasionally in cough, or humoral asthma.

Ainslie.

R. Ammoniac,
Assafetida,
Soap,
Powdered valerian,
Flowers of arnica,

Tartar emetic, eighteen grains.

Mix, and make two grain pills. In doses of four or five, three times a day. In amaurosis, arising from abdominal affections.

Richter

## Ammoniac and Nitric Acid Mixture.

B. Ammoniac, two and a half scruples.

Diluted nitric acid, two fl. drachms.

Water, eight fl. ounces.

Add the acid to the water, then gradually rub the gum with the acid compound, in a composition mortar.

A tablespoonful, two or three times a day It is highly beneficial in chronic catarrh, especially in that of elderly persons. Ellis.

#### Mixtures of Ammoniac.

R. Ammoniac mixture, three fl. ounces.

Tincture of castor, half a fl. drachm.

Syrup of tolu, half a fl. ounce.

Laudanum, twenty to thirty drops.

Cinnamon water, one fl. ounce.

Mix. A dessertspoonful every three or four hours in troublesome cough. Meigs.

R. Ammoniac, Gum Arabic, each, half an ounce. Infusion of hyssop, six fl. ounces. Syrup of capillaire (maidenhair), two fl. ounces. Rub the ammoniac and gum with the infusion until a solution is formed.

In tablespoonful doses, occasionally, in catarrhs. Radius.

R. Ammoniac mixture, four fl. ounces.

Wine of ammoniac, Paregoric elixir, each, half a fl. ounce.

Syrup of tolu, one fl. ounce. Mix. In teaspoonful doses, occasionally, as an expectorant.

#### Ammoniac Plaster.

R. Ammoniac, five troyounces.

Diluted acetic acid, half a pint.

Dissolve the ammoniac in the acid, and strain; evaporate in a water-bath to a proper consistence.

U. S. Ph.

Useful as an application to indolent and scrofulous tumors to promote suppuration.

R. Yellow wax,

Resin, each, four parts.

Melt together, strain, and add

Purified ammoniac, eight parts, previously dissolved in

Common turpentine, four parts.

Mix. Paris Codex.

The ammoniac plaster of the German Pharmacopæia is identical with this, except that two parts of the ammoniac are replaced by two parts of galbanum.

# Plaster of Ammoniac with Mercury.

R. Ammoniac,
Mercury,
Olive oil,
Sulphur,
welve troyounces.
three troyounces.
sixty grains.
eight grains.

To the heated oil add the sulphur gradually, stirring constantly, then rub the mercury with the compound, until the globules disappear. Boil the ammoniac with sufficient water to cover it, until they are thoroughly mixed, strain through a hair sieve, evaporate by means of a water-bath until it would harden on cooling, and while still hot, incorporate it thoroughly with the mixture containing the mercury. U. S. Ph.

More active than the simple ammoniac plaster. Used as a discutient to tumid glands and other indolent swellings, especially syphilitic. Sometimes salivates.

# Ammoniac Plaster with Hemlock.

R. Strained ammoniac, three ounces. Extract of hemlock, two drachms. Melt, and add

Solution of subacetate of lead, one drachm. Stir till cold. Ph. Chem.

## AMMONIUM.

#### AMMONIUM.

Under ordinary circumstances, ammonia exists as a gas, which is readily taken up by water or alcohol. Water absorbs nearly 800 times its volume of the gas at 32° F., and this solution, possessing the properties of the gas, is usually employed.

#### Water of Ammonia.

R. Chloride of ammonium,
Lime, each, twelve troyounces.
Distilled water, one pint.
Water, six pints.

Pour a pint of water upon the lime in a proper vessel, and after it has slaked, stir to a smooth paste, add the remaining water, stir, decant from the gritty sediment into a two-gallon glass retort and add the chloride of ammonium. Place the retort on a sandbath, and adapt to it a washing bottle connected by means of a glass tube with a quart bottle containing the distilled water and cooled by ice-cold water. Apply heat, and continue as long as ammonia comes over. Remove the fluid in the bottle, and add so much water as will raise it to the sp. gr. 0.960, and keep in small well-closed bottles. The aqua ammon. fort. of the Pharma-copæia has a sp. gr. of 0.900 and the above aqua ammoniæ that of 0.960; two fl. ounces of the former with three of water will form the latter.

The strong solution of ammonia of *Brit*. *Ph*. has the sp. gr. 0.891.

#### Liniment of Ammonia.

R. Water of ammonia, one fl. ounce.
Olive oil, two troyounces.
Mix. Used as a rubefacient and counterirritant.
U. S. Ph.

R. Water of ammonia, one fl. ounce.
Olive oil, three fl. ounces.
Mix. Brit. Ph.

#### Compound Liniment of Ammonia.

R. Stronger water of ammonia, five fl. ounces. Tincture of camphor, two fl. ounces. Spirit of rosemary, one fl. ounce.

 $\begin{array}{ll} \text{Mix well.} & \text{More powerful than the simple} \\ \text{liniments.} & Edin. \ Ph. \end{array}$ 

# Granville's Lotion. (Milder.)

R. Water of ammonia (.882), four fl.
drachms.
Spirit of rosemary, three fl.
drachms.
Spirit of camphor (3j to Oj),

Mix.

## (Stronger.)

R. Water of ammonia (.882),
five fl. drachms.
Spirit of rosemary,
two fl. drachms.
Spirit of camphor, one ff. drachm.
Mix. As a counter-irritant. Gray.

## Compound Tincture of Ammonia.

R. Mastic, two drachms.
Alcohol, nine fl. drachms.
Oil of lavender, fourteen minims.
Stronger water of ammonia,

one pint.

one fl. drachm.

Dissolve the mastic in the alcohol, and filter; add the other ingredients, and agitate them well.

Well known under the name of eau de luce as a remedy in bites of venomous reptiles. It is a good antispasmodic, in doses of from ten to forty drops; and also forms a stimulating embrocation.

Lond. Ph. 1836.

#### Gargle of Ammonia.

R. Water of ammonia (.960), half fl. ounce.

To be added to a strained decoction of

Mallows,
Dry figs, each,
Cow's milk,
sixteen ounces.

Employed as a resolvent in certain cases of angina. Pringle.

#### Injection of Ammonia.

R. Water of ammonia, one scruple.

Cow's milk, one ounce.

Mix. As an emmenagogue this injection is to be used three times a day. It induces

is to be used three times a day. It induces a mucous flow, often followed by the appearance of the catamenia. It must be used with great caution, and made less stimulating at first.

Lavagna.

#### Mixture of Ammonia.

R. Water of ammonia,
Carbonate of potassium,
each, two drachms.
Cinnamon water, four fl. ounces.
Mix. A spoonful every two or three hours,
in cardialgia and acidity of the stomach.

Jourdan.

R. Comp. tinct. of
ammonia (Lond.), two fl.
drachms and a half.
Camphor water, seven fl. ounces.
Tincture of castor, one fl. drachm.
Simple syrup, three fl. drachms.
Mix. Two spoonfuls in an hysteric attack.
Ainslie.

Mixture of Ammonia and Ether.

R. Water of ammonia,
Sulphuric ether, each,
drachms.
Peppermint water, four fl. ounces.
Syrup of cinnamon, one fl. ounce.
Mix. A spoonful every hour. Said to be very useful in bites of venomous snakes.
Radius.

# Ammoniacal Sinapism.

R. Flour of mustard, one ounce and a half.

Rye flour, half an ounce.

Water of ammonia, sufficient to form a cataplasm. This is more active than the simple mustard poultice.

Phæbus.

# Gondret's Ammoniacal Cintment.

R. Suet,
Hog's lard, each,
Stronger water of
ammonia,
Melt the fats and incorporate the ammonia.

Soubeiran.

R. Hog's lard, seven drachms.
Oil of almonds, one drachm and a half.

Stronger water of ammonia, five drachms. Melt the lard, mix it with the oil, pour into a wide-mouthed bottle with a glass stopper, add the ammonia, and agitate well. Keep in a cool place.

Rubbed on the skin it causes rubefaction, and if covered with a compress, speedily vesicates. A useful rubefacient and counter-irritant. Gondret.

### Lotion of Ammonia.

R. Water of ammonia, Spirit of thyme,

Spirit of thyme, Spirit of camphor, equal parts.

Mix. As a lotion to the forehead, or applied to the temples, in compresses, in sick headache.

Swediaur.

## Fetid Spirit of Ammonia.

R. Assafetida, in small pieces, one ounce and a half.

Macerate for twenty-four hours in fifteen fl. ounces of rectified spirit, then distil off the spirit, and mix the product with

Strong solution of

ammonia, two fl. ounces.

Add alcohol to make twenty fl. ounces.

Brit. Ph.

Employed as a stimulant and antispasmodic in doses of half a drachm to one drachm.

# Steer's Opodeldoc.

R. Alcohol, eight pints.
Soap, twenty ounces.
Water of ammonia, four fl. ounces.
Camphor, eight ounces.
Oil of rosemary,

" monarda, each, one fl. ounce.

Dissolve the soap in the alcohol with a gentle heat, add the other articles, suffer the impurities to subside, and pour into phials whilst warm. Phil. Coll. Pharm.

#### Liquid Opodeldoc.

R. Dry Spanish soap, sixty parts.
Camphor, fifteen parts.
Alcohol, five hundred parts.
Oil of thyme, four parts.
"rosemary, three parts.
Solution of ammonia, thirty parts.
Mix, dissolve, and filter.

Giseke.

#### Plaster of Ammonia.

R. Stronger water of ammonia, one ounce.
Camphor, two ounces.
Opium, fifteen grains.
Ammoniac, Saffron, Gum plaster, Galbanum plaster,

Mix well. For corns. A thick layer of nearly one-four this plaster is to be spread on a piece of the preceding.

linen or kid-skin, of the exact size of the corn, as it will blister the sound skin.

La Foret.

# Sulphuretted Ammoniacal Liniment.

R. Water of ammonia, one ounce.

Camphor, half a drachm.

Sulphuret of potassium, four drachms.

Olive oil, six ounces.

Mix. Recommended as an application in tinea capitis.

Bories.

#### Terebinthinate Ammoniacal Liniment.

R. Oil of chamomile,

"henbane,
Essence of turpentine,
Water of ammonia,
Tincture of capsicum,
each,
Camphor,
half an ounce.
Mix well. A very stimulating liniment,
found beneficial in asthenic gout and chronic rheumatism.

# Spirit of Ammonia.

R. Alcohol, twenty fl. ounces.
Chloride of ammonium,
Lime, each, twelve troyounces.
Water, six pints.
Prepare as directed for water of ammonia.
U. S. Ph.

# Aromatic Spirit of Ammonia.

R. Carbonate of ammonium, one troyounce. Water of ammonia, three fl. ounces. Oil of lemon, two fl. drachms and a half. Oil of nutmeg, forty minims. " lavender, fifteen minims. Alcohol, a pint and a half. sufficient. Water, Dissolve the carbonate in the water of am-

Dissolve the carbonate in the water of ammonia, previously mixed with four fl. ounces of water. Dissolve the oils in the alcohol, mix the two solutions, and add water sufficient to make two pints.

U. S. Ph.

The corresponding spirit of *Brit. Ph.* is nearly one-fourth stronger in ammonia than the preceding.

#### Mixture of Ammoniated Alcohol.

R. Ammoniated alcohol

66

(spirit of ammonia), half a fl. ounce. one drop.

Oil of amber, mace,

two drops.

aniseed. cloves, cinnamon,

each, three drops.

Mix. Dose, ten to thirty drops in sweetened gum-water, in anorexia and flatus. This is similar to the aromatic ammoniated alcohol of U.S. Ph. 1830. Ammon.

#### Anisated Ammoniated Alcohol.

R. Alcohol, twenty-four parts. Oil of aniseed, one part. Dissolve, and gradually add, constantly

Water of ammonia, five parts. Keep in well-closed bottles. Ph. Germ.

# Lotion in Hiccough.

R. Anisated ammoniated alcohol. one fl. drachm. Spirit of lavender, two fl. ounces. Recommended by Siebold to be rubbed on the thorax and abdomen of infants to check hiccough. Radius.

## Elixir of Liquorice. (Pectoral Elixir.)

R. Purified extract of

liquorice, two parts. Fennel-water, six parts.

Anisated ammoniated

alcohol. two parts.

Dissolve. Dose, ten minims to a teaspoonful, diluted, as a stimulating expectorant. Ph. Germ.

#### Mixture of Anisated Ammoniated Alcohol.

R. Extract of liquorice, one drachm. Barley-water, three fl. ounces and a half.

Anisated ammoniated alcohol. half a fl! drachm. half a fl. ounce. Simple syrup, Mix. A teaspoonful occasionally in chronic catarrh. Hufeland.

R. Anisated ammoniated alcohol, one fl. drachm. Syrup of mallows, one fl. ounce. Extract of henbane, one scruple. In chronic ophthalmia.

Mix well. A dessertspoonful three times a day, in chronic bronchitis or in the second stages of whooping-cough. Radius.

# Vicat's Anodyne Mixture.

R. Ammoniated alcohol, half a fl. ounce.

Diluted alcohol, one fl. ounce. Opium, two scruples. Camphor, one scruple.

Digest for three days, often stirring, and filter. Used on cotton to fill the cavity of carious teeth, and as a lotion to the temples in headache. Spielmann.

# AMMONII ACETAS.

ACETATE OF AMMONIUM.

#### Solution of Acetate of Ammonium.

R. Diluted acetic acid, two pints. Carbonate of ammonium,

a sufficient quantity.

Add the carbonate gradually to the acid. until the latter is neutralized, and filter.

The corresponding preparation of Brit. Ph. is about one-third, of Paris Codex twice, and of Ph. Germ. about three times

stronger than the above.

The solution of *U. S. Ph.* may also be prepared by dissolving six hundred and forty grains of carbonate of ammonium in sufficient water to make one pint, and adding it to a mixture of four fl. ounces of officinal acetic acid and twelve fl. ounces of water.

A valuable diaphoretic in febrile and inflammatory diseases, when aided by warmth; otherwise it acts as a diuretic. Dose, half a fl. ounce to a fl. ounce every three or four hours. It is also a good refrigerant lotion. It is known as the spirit of Mindererus.

#### Cataplasm with Acetate of Ammonium.

R. Extract of hemlock, one ounce. " henbane, half an ounce. Powder of belladonna, one drachm. Solution of acetate of

ammonium, sufficient

to form a cataplasm. Has been found useful in ulcerated cancerous sores. Radius.

#### Collyrium of Acetate of Ammonium.

R. Solution of acetate of ammonium, equal parts. Rose water, Saunders.

# Gargle of Acetate of Ammonium.

R. Solution of acetate of ammonium,
Honey of roses, each, one fl. ounce.
Elder-water, eight fl. ounces.
Mix. Recommended by Wendt in scarlatina anginosa with ulcerations. Phæbus.

### Mixture of Acetate of Ammonium.

R. Solution of acetate of
ammonium, two fl. ounces.
Cinnamon-water, one fl. ounce.
Antimonial wine, one fl. drachm.
Distilled water, two fl. ounces.
Mix. A tablespoonful every two or three hours.

Ellis.

R. Camphor mixture,
Solution of acetate of ammonium, each, half a fl. ounce.
Antimonial wine,

Laudanum, each, twenty drops.

Mix. To be taken at bedtime, or oftener, in which latter case the laudanum to be diminished.

Ellis.

R. Liquid acetate of ammonium, half fl. ounce. Camphor mixture, seven fl. drachms.

Antimonial wine, fifteen drops. Syrup of saffron, half a fl. drachm. Mix. To be taken three times a day.

Burke.

# AMMONII ARSENIAS.

ARSENIATE OF AMMONIUM.

R. Arsenic acid, one ounce.

Stronger water of
ammonia, sufficient
to saturate the acid. To be left to evaporate and crystallize spontaneously. Dose,

to to to to to to a grain.

Cottereau.

#### Solution of Arseniate of Ammonium.

R. Arseniate of ammonium, eight grains.

Water, eight ounces.

Angelica-water, four drachms.

Mix. Has been recommended, in doses of twenty to thirty drops, in obstinate cutaneous affections.

Soubeiran.

# AMMONII BENZOAS.

BENZOATE OF AMMONIUM.

R. Benzoic acid, two troyounces.

Water of ammonia, three
fl. ounces and a half.

Distilled water, four fl. ounces.

Dissolve the acid in the mixed liquids, evaporate with a gentle heat, maintain an alkaline reaction by adding ammonia, if

necessary, and crystallize. U. S. Ph.
Used as a diuretic and stimulant to the
mucous membrane of the urinary passages
and preferred to benzoic acid on account of
its solubility. Dose, ten to twenty grains.

# AMMONII BICARBONAS. BICARBONATE OF AMMONIUM.

R. Sesquicarbonate of ammonium, at will.

Pulverize, spread out on paper, and expose to the air for twenty-four hours. Then inclose in well-stopped bottles.

Dub. Ph.

This is a white powder of less disagreeable taste than the common carbonate. It is used for the same purposes. Dose, five to fifteen grains.

# AMMONII BROMIDUM.

BROMIDE OF AMMONIUM.

R. Bromine, two troyounces.
Iron wire, cut, one troyounce.
Water of ammonia,

four fl. ounces and a half.
Distilled water, sufficient.

Add the iron and then the bromine to half a pint of distilled water, and agitate until the liquid has assumed a greenish color. To this bromide of iron add the water of ammonia, previously diluted with half a pint of distilled water, agitate the mixture, and heat it in a water-bath for half an hour. Filter, wash the precipitate with distilled water, and evaporate the filtrate in a porcelain capsule until a pellicle forms, then stir constantly at a moderate heat until the salt becomes dry and granular. U. S. Ph.

The salt becomes yellow on exposure; it is readily soluble in water and sparingly so in alcohol. It acts as an absorbent in glandular enlargements, and in large doses as an anodyne and hypnotic, increasing the secretions

R. Bromide of potas-

sium, four troyounces. Sulphate of ammo-

nium, three troyounces.

n doses of Dissolve the bromide in six, and the sulphate in four and a half fl. ounces of boiling water, mix, cool, and add one fl. ounce

and a half of alcohol; after twenty-four to form twenty pills. One every two hours hours decant and evaporate to crystallization. This will keep better than that made by the officinal process.

# AMMONII CARBONAS.

CARBONATE OF AMMONIUM.

R. Chloride of ammonium, one pound. Dried chalk, one pound and a half. Pulverize them separately, then mix them thoroughly, and sublime into a cooled re-ceiver. U. S. Ph. 1850.

## Aromatic Carbonate of Ammonium.

R. Carbonate of ammo-

nium, one pound. Oil of lavender, three ounces. " verbena, half an ounce. Grind together and sublime with a gentle heat.

R. Carbonate of ammonium,

half an ounce.

Oil of peppermint,

" cajeput, each, twelve drops. Mix, and keep in a closed bottle. Phæbus.

R. Powdered carbonate of ammonium, one ounce. Stronger solution of

half a fl. ounce. ammonia,

Oil of rosemary,

bergamot, each, ten drops. Mix, and while moist, put in a wide-mouthed bottle, which is to be well closed.

All these are used as smelling salts in

faintness, etc.

#### Potion of Carbonate of Ammonium.

R. Carbonate of ammonium, ten grains. Cinnamon water, one fl. ounce. Tincture of allspice, half a fluidrachm. Syrup of saffron, half a fl. ounce. Mix. To be taken before going to bed.

Phæbus.

#### Pills of Carbonate of Ammonium.

R. Carbonate of ammonium, Powdered capsicum, one cloves, scrumace, ple. Oil of caraway, five drops. Extract of gentian, twelve Simple syrup,

in gout in the stomach. Parrish.

#### Mixture of Carbonate of Ammonium.

R. Carbonate of ammonium,

Powdered white sugar,

Powdered gum Arabic,

Compound spirit

of lavender, two fl. drachms. Mint water, four fl. ounces.

each, one

drachm

and a half.

Mix. A tablespoonful every two or three hours. If required, forty to fifty drops of laudanum may be added to the mixture.

Useful in low states of the system.

Solution of Carbonate of Ammonium.

R. Carbonate of ammonium, part.

Distilled water, five parts. Dissolve. Dose, twenty to sixty grains. Ph. Germ.

## Draught with Carbonate of Ammonium.

R. Oil of valerian, three drops. Carbonate of ammonium, grains.

Cinnamon water, two fl. ounces. To be taken every four hours, in depression of the spirits and nervous headache. Ellis.

### Mixture of Carbonate of Ammonium and Ginger.

fifteen grains. R. Powdered ginger, Carbonate of ammonium, eight grains.

Spirit of cinnamon, two fluidrachms.

Water, one and a half fl. ounces. Mix. To be taken in gout or cramp in the Ellis. stomach.

## Drops of Carbonate of Ammonium.

R. Carbonate of ammonium,

twenty parts. Oil of lavender, one part. Alcohol, four parts. grains. Distil. Dose, thirty or forty drops in nersufficient | vous headache. Cottereau.

## Plaster of Carbonate of Ammonium.

R. Carbonate of ammonium,

fifteen grains. Opium, each, half a drachm. Camphor, Oil of cajeput, twenty drops. Galbanum plaster, half an ounce.

Mix. Said to be useful as an application to the pit of the stomach to arrest vomiting in sea-sickness. Phæbus.

## Camphorated Ammoniacal Liniment.

R. Liquid carbonate of

ammonium, four parts. Oil of olives, sixteen parts. Spirit of camphor, three parts. Mix. As a revulsive embrocation.

Swediaur.

#### Ammoniacal Ointment.

R. Carbonate of ammo-

nium. one drachm. Rose ointment, one ounce. Oil of jasmine, four drops.

Mix. Recommended as a friction, three or four times a day, in engorgements of the mammæ, and used by Foy in frictions to the throat in croup. Augustin.

# Pyro-oleous Carbonate of Ammonium.

R. Carbonate of ammo-

nium. thirty-two parts. Dippel's animal oil, one part. Rub together into a uniform powder.

Ph. Germ. In typhus, paralysis, etc. Dose, two to five grains.

## Solution of Pyro-oleous Carbonate of Ammonium.

R. Pyro-oleous carbonate

of ammonium, one part. Distilled water, five parts. Dissolve and filter. Ph. Germ.

Dose, ten to thirty grains.

# AMMONII CHLORIDUM. SAL AMMONIAC.

#### Purified Chloride of Ammonium.

R. Chloride of ammonium.

in small pieces, twenty

troyounces. Water of ammonia, five fl. drachms. Water two pints.

ammonia, filter after some time, evaporate and granulate.

Stimulating and resolvent. Dose, five to thirty grains.

#### Powder of Sal Ammoniac.

R. Sal ammoniac, two drachms. Camphor, six grains. Powdered arnica, half a drachm. White sugar, six drachms.

Mix. Dose, a teaspoonful, three or four times a day. Said to be efficacious as an emmenagogue, and also in smaller doses in chronic catarrh.

#### Bolus of Sal Ammoniac.

R. Sal ammoniac,

Extract of liquorice, each,

one scruple.

Extract of taraxacum, sufficient to form a bolus. One to be taken every three or four hours, in scirrhus of the prostate, bladder, and rectum. Radius.

#### Lotions of Sal Ammoniac.

R. Sal ammoniac, two scruples. Vinegar, one fl. ounce. Water, one pint.

Mix. Augustin.

R. Sal ammoniac, one ounce. Vinegar,

Alcohol, each, four fl. ounces. Mix. In strains, bruises, and external inflammation.

R. Chloride of ammonium, one drm. Alum, three drachms. Sulphuret of potassium, scruple.

Rose water, eight fl. ounces. Dissolve. In acne simplex. Waring.

#### Fomentations of Sal Ammoniac.

R. Powdered bistort,

pomegranate root. each, two ounces. Red wine, one pound.

Heat, digest for an hour, strain, and add

Sal ammoniac, two drachms. Useful as a fomentation, in strains and bruises. Foy.

R. Sal ammoniac, one ounce. Spirit of rosemary, one pound. Mix. Said to be useful in engorgement of Dissolve the chloride in the water in a por- the mammæ. The breast to be covered celain dish with the aid of heat, add the with cloths dipped in the fluid.

## Collyrium of Sal Ammoniac.

R. Chloride of ammonium, grains. four grains. Acetate of copper, Lime water, four fl. ounces. Mix. In white opacity of the cornea.

Scarpa.

#### Liniment with Sal Ammoniac.

R. Sal ammoniac, one ounce. Camphor, half an ounce. White soap, six drachms. Alcohol, two pounds. Digest, and filter. Useful as an application to contusions. Niemann.

#### Collutorium of Sal Ammoniac.

R. Pellitory, two drachms. Lavender water, Vinegar, each, two fl. ounces. Opium, two grains. Sal ammoniac. one drachm. Macerate for a few days, and filter.

Cadet de Gassicourt.

## Draught of Sal Ammoniac.

R. Sal ammoniac, five grains. Camphor, three grains. one drachm. Gum Arabic, four fl. ounces. Parsley water, Mix. To be taken every two hours in paralytic retention of urine. Radius.

#### Cataplasm with Sal Ammoniac.

R. Sal ammoniac, Henbane, each, half an ounce. Linseed meal, an ounce and a half. Boiling water, sufficient to make a cataplasm. Advised in an engorgement of milk in the breasts.

Radius.

### Wash of Sal Ammoniac.

R. Bran, an ounce and a half. Mallow leaves, six drachms. sufficient Water, to make sixteen ounces of solution. Boil, strain, and add to decoction

Sal ammoniac, two drachms. Tincture of benzoin, half a fl. ounce.

### Emulsion of Sal Ammoniac.

forty R. Sweet almonds, one ounce. Orange-flower water, two fl. ounces. Rose water, eight fl. ounces. Sal ammoniac, one drachm. Tincture of benzoin, two fl. drachms.

> Rub down the almonds, previously blanched, with the rose water, and add the other articles. Dose, a tablespoonful. Phæbus.

#### Mixture of Sal Ammoniac.

R. Chloride of ammonium. Extract of liquorice, each, drachms.

Linden flower water, six fl. ounces. Mix. A tablespoonful every two hours, in catarrh. Richter.

# AMMONII CITRAS.

CITRATE OF AMMONIUM.

R. Fresh lemon juice, one fl. ounce. Carbonate of ammonium. sufficient

to saturate.

White sugar, one drachm. Distilled water, four fl. ounces.

A pleasant saline diaphoretic in febrile disorders, resembling the solution of the acetate of ammonium in its effects. Dose, a

tablespoonful, as may be required.

#### Solution of Citrate of Ammonium.

R. Citric acid, three ounces. twenty ounces. Water, Stronger solution of sufficient. ammonia, Dissolve the acid in the water, and add ammonia until neutral to test paper. Dose, two to six fl. drachms.

### AMMONII IODIDUM.

IODIDE OF AMMONIUM.

R. Iodide of potassium, three troyounces. Sulphate of ammonium, troyounce. Boiling distilled water, fl. ounces.

Powder the salts separately, mix them, Radius. dissolve in the water, and cool; add a fl. ounce of alcohol and cool to about 40°, filter through moist cotton and wash the salt with a fl. ounce of a mixture containing two parts of water and one part of alcohol, then evaporate the solution rapidly to dryness and granulate.

U. S. Ph.

Tonic and antisyphilitic. Dose, one to

five grains.

## Glycerite of Iodide of Ammonium.

R. Iodide of ammonium, thirty grains. Glycerin, half a fl. ounce.

Dissolve. In enlarged tonsils.

Richardson.

## Liniment of Iodide of Ammonium.

B. Iodide of ammonium, five grains. Olive oil, one fl. ounce.

Mix. In nocturnal syphilitic pains.

Gamberini.

#### Ointment of Iodide of Ammonium.

R. Iodide of ammonium, one scruple.

Lard, one ounce.

Mix. Beasley.

R. Iodide of ammonium, one drachm. Lard, one ounce.

As an application to scrofulous tumors

and cutaneous affections.

# AMMONII NITRAS.

NITRATE OF AMMONIUM.

R. Diluted nitric acid, at will. Carbonate of ammo-

nium, sufficient

to saturate. Evaporate by a gentle heat, till a pellicle forms; set aside to crystallize.

Soluble in two parts of cold water. In doses of one or two scruples, it reduces the frequency of the pulse and heat of the skin, and also acts as a diuretic.

#### Mixture of Nitrate of Ammonium.

R. Carbonate of ammo-

nium, one scruple.
Nitric acid, sufficient

to saturate; add

Syrup of mallows, one fl. ounce.
Distilled water, two fl. ounces.

Dose, a dessertspoonful, every two hours.

AMMONII PHOSPHAS.

PHOSPHATE OF AMMONIUM.

R. Diluted phosphoric acid, at will. Strong water of ammo-

nia, sufficient.

Add the ammonia until the solution is slightly alkaline, evaporate and crystallize, maintaining the alkaline reaction of the

liquid.

Diuretic and discutient. Recommended by Dr. Buckler, of Baltimore, in gout and rheumatism, as a solvent of uric acid calculus, and in diseases dependent on a lithic acid diathesis. Dose, five to twenty grains three times a day.

# Solution of Phosphate of Ammonium.

R. Phosphate of ammonium, half an ounce. Water, six fl. ounces. Dissolve. Dose, a tablespoonful three times a day. C. Ellis.

# Effervescing Draught of Phosphate of Ammonium.

R. Phosphate of ammonium,
Carbonate of ammonium,
nium, each, ten grains.
Aromatic spirit of
ammonia, half a fl. drachm.
Water, one fl. ounce.
Mix. To be taken thrice daily, with the juice of a lemon, in diabetes.

Basham.

# AMMONII SUCCINAS.

SUCCINATE OF AMMONIUM.

R. Succinic acid, one part.
Water, four parts.

Put in a capsule, and add sufficient water of ammonia, till perfectly saturated, with a slight excess of alkali; filter, evaporate, and crystallize.

Guibourt.

#### Solution of Succinate of Ammonium.

R. Succinic acid, in powder, one part.
Distilled water, eight parts.
Pyro-oleous carbonate of

ammonium, one part or sufficient.

Dissolve the acid in the water, neutralize with the carbonate, and filter. Ph. Germ.

hours. Antispasmodic and sudorific. Dose, Radius. twenty to sixty drops.

# Spirit of Succinate of Ammonium.

R. Spirit of hartshorn, two fl. ounces.
Sal ammoniac, four ounces.
Carbonate of potas-

sium, twelve ounces.
Powdered amber, six ounces.

Oil of lemons, two fl. drachms.

Mix the sal ammoniae, oil, and amber, add
the carbonate of potassium to three pints
of alcohol, mixed with a pint of water, and
distil on a sand-bath. Dose, thirty to fifty
drops, as an antispasmodic.

Niemann.

## Mixture of Succinate of Ammonium.

R. Liquid succinate of ammonium, Elixir of liquorice, each, two parts. Wine of opium,

Antimonial wine, each, one part. Mix. Useful in hooping-cough, in doses of ten to forty drops, every two hours.

Augustin.

#### Succinate of Ammonium and Ether.

R. Liquid succinate of ammonium,

Sulphuric ether, equal parts.

Mix. Much praised in gout and rheumatism. Dose, twenty to forty drops in sugar and water, two or three times a day.

St. Marie.

## Mixture of Succinate of Ammonium.

R. Liquid succinate of

ammonium, five fl. drachms.

Tincture of eastor,

Anisated ammon.

alcohol, each, three fl. drachms.

Tincture of mace, two fl. drachms.

" nutmeg, one fl. drachm.

Mix. Fifteen to twenty-five drops, three or four times a day, in hysteria. Augustin.

# Liniment of Succinate of Ammonium.

R. Liquid succinate of

ammonium, one fl. ounce.
Camphorated oil, two fl. ounces.
Mix. As a liniment to the neck in angina.
St. Marie.

R. Camphor, two scruples.
Oil of turpentine, two drachms.
Dissolve, and add

Soft soap, one ounce.
Ointment of bayberries, two drachms.

Succinate of ammonium, fifteen grains.

Mix. As a friction in chronic rheumatism, especially sciatica. Cadet.

## AMMONII SULPHAS.

SULPHATE OF AMMONIUM.

R. Diluted sulphuric acid, at will. Carbonate of ammonium, sufficient to saturate; filter, and crystallize.

Laxative and stimulant. Dose, from a scruple to half a drachm.

# AMMONII SULPHURETUM.

SULPHIDE OF AMMONIUM.

R. Water of ammonia, four fl. ounces.

Pass hydrosulphuric acid (obtained from the sulphuret of iron, and sulphuric acid diluted with four times its weight of water) through the water of ammonia in a suitable apparatus, to perfect saturation. To be kept in a well-stopped bottle. Sp. gr. 0.999. Dub. Ph.

A powerful sedative, lessening the action of the circulatory system to a great degree, and causing nausea, vomiting, vertigo, etc.

and causing nausea, vomiting, vertigo, etc.

Used in diabetes to check the morbid appetite, by Cruikshank, Rollo, and others.

Dose, five or six drops, in a tumblerful of water, three or four times a day, gradually increasing the dose until some vertigo is induced.

# Sulphuretted Sulphide of Ammonium.

R. Quicklime,

Sulphur, each, three parts.

Triturate together, adding water sufficient to form a paste, and incorporate

Sulphate of ammo-

nium, seven parts dissolved in water. Let stand, decant, wash

the residuum, rubbing it with a small portion of water, unite the solutions, and filter. Van Mons.

Known as Boyle's fuming liquor, and recommended in venereal complaints, in phthisis, rheumatism, and gout, in doses of three to four drops in water, augmenting the dose until vertigo ensues.

#### Wilkinson's Liniment.

R. Boyle's fuming liquor, ten grains. Chalk, one scruple. Flowers of sulphur, Lard, Tar, each, half an ounce.

Mix well. Advised in chronic diseases of the skin. To be rubbed on a moderate extent of surface at a time. Phæbus.

## Sulphuretted Syrup.

R. Boyle's fuming
liquor, three drachms.
Sulphuret of antimony
and sodium, one drachm.
Simple syrup, an ounce and a half.
Mix. Has been prescribed in croup, in
the dose of a teaspoonful every hour.

Swediaur.

# AMMONII VALERIANAS.

#### VALERIANATE OF AMMONIUM.

From a mixture of chloride of ammonium in coarse powder, and an equal weight of recently slaked lime, obtain gaseous ammonia; pass this first through a bottle filled with pieces of lime and afterwards into officinal valerianic acid, contained in a tall narrow glass vessel, until the acid is neutralized. Let crystallize, drain, and dry the crystals on bibulous paper.

U. S. Ph.

Used in neuralgia, hysteria, epilepsy and similar affections. Dose, two to eight grains, dissolved in water and flavored with

an aromatic and syrup.

#### Elixir of Valerianate of Ammonium.

R. Valerianic acid, one fl. ounce.
Distilled water,

twenty-four fl. ounces.

Carbonate of ammo-

nium, sufficient.

Alcohol,

Simple syrup, each, twelve fl. ounces.

Peach water, eight fl. ounces. Saturated tincture of

fresh orange peel, one fl. ounce. Oil of bitter almonds, five minims. Oil of sweet orange,

twenty minims.

Mix the acid and water and neutralize with the carbonate; dissolve the oils in the alcohol, mix the solutions, add the other ingredients, and color with caramel.

Maryland Coll. Ph.

A tablespoonful contains five grains of the salt.

# AMYGDALA. ALMONDS.

AMYGDALA AMARA.
BITTER ALMONDS.

# AMYGDALA DULCIS. SWEET ALMONDS.

The almond-tree, Amygdalus communis, is about the size and much resembles the peach-tree in appearance. It is a native of Persia and Syria, and is extensively cultivated in the southern parts of Europe. There are several varieties, the most important of which are the sweet and the bitter: the former having a sweet, bland kernel; and the latter, one that has the bitter taste of the peach kernel.

Sex. Syst. Icosand. monog. Nat. Syst.

Amygdalaceæ.

Linn. Sp. Pl. 677. Griffith, Med. Bot. 284. Sweet almonds act as a demulcent; but the bitter have some of the properties of hydrocyanic acid.

#### Butter of Almonds.

R. Blanched almonds, ten drachms.
White sugar, twelve drachms.
Orange-flower water, two drachms.

Triturate till reduced to a homogeneous paste. Guibourt.

A spoonful, stirred in a tumbler of water, forms an extemporaneous syrup of orgeat, which latter preparation is difficult to preserve.

#### Almond Paste.

R. Blanched almonds,
Oil of almonds,
Lemon juice, each,
Diluted alcohol,
Form a paste.
eight ounces.
a sufficient quantity.
five ounces.
Taddei.

R. Blanched almonds,
Rice flour, each, eight ounces.
Bean flour, sixteen ounces.
Myrrh, two ounces.
Camphor, one ounce and a half.
White soap, twenty ounces.
Form a paste.
Spielmann.

#### Almond Powder.

Used as a cosmetic.

Rice flour,
Orris root, each,
Benzoin,
Carbonate of potassium,
Spermaceti, each,
Oil of rhodium,

Oil of lavender, " cloves, each, thirty drops. R. Blanched almonds, Form a powder. Used as a cosmetic.

# Compound Almond Powder.

R. Sweet almonds, eight ounces. Powdered gum Arabic, one ounce. eight ounces. four ounces. sugar,

Blanch the almonds and wipe them dry; then rub them lightly in a mortar to a smooth consistence. Mix the gum and sugar, and adding them to the pulp gradually rub the whole to a coarse powder. Brit. Ph.

This is the almond confection of the

older pharmacopæias.

One drachm triturated with an ounce of distilled water forms an excellent emulsion. which is nutritive and emollient.

## Compound Almond Lotion.

R. Sweet almonds, one ounce. four drachms. Bitter

Form an emulsion with

Cherry brandy, ten fl. ounces. Add

Corrosive sublimate, six grains. Tincture of benzoin, six drachms. four drachms. Lemon juice,

As a lotion for pustular eruptions on the face. The mixture should be shaken before it is used. Siemerling.

#### Syrup of Orgeat.

R. Sweet almonds, twelve troyounces. Bitter four troyounces. Sugar, seventy-two troyounces. Water, sufficient. Orange-flower water, four fl. ounces.

Blanch the almonds, pound thoroughly in a marble mortar (after having soaked them in cold water), mix gradually with one pint and a half of water, and strain with ex-pression. Repeat the process with the same quantity of water, and make up the strained liquor to three pints, in which dissolve the sugar with a gentle heat. When cold, add the orange-flower water Ambrose Smith. and mix.

The almond syrup of Paris Codex and Ph. Germ. are nearly identical with this.

The U.S. Ph. directs an almond syrup which only differs from the above in not containing any orange-flower water. All of these syrups are demulcent and nutritive. But they are chiefly used as flavoring ingredients in cough mixtures.

#### Artificial Milk.

No. 2. Make an emulsion with

Boiling water, four fl. ounces. Cow's milk, six fl. ounces. White sugar, one drachm. Strain. As a substitute for breast-milk for infants. Rosenstein.

## Anodyne Milk.

R. Blanched almonds, four ounces. Melon seed, Squash seed, each, one ounce. Lettuce seed, Poppy seed, each, one drachm.

Triturate well, adding gradually

Barley water, sufficient. Strain and express; to be taken in glassful doses, to which are to be added two drachms of sugar. Pierquin.

#### Milk of Roses.

R. Almonds, one ounce. Rose water, five fl. ounces. Alcohol, one fl. ounce. half a drachm. Soap, two drops. Attar of roses, Blanch the almonds, dry them well with a

cloth, beat them to a paste, add the soap, triturate well, then add the rose water and alcohol, rub well together, and strain through fine linen. This keeps well.

Bateman.

R. Blanched almonds, eight ounces. Rose water, three pints. Windsor soap,

White wax,

Oil of almonds, each, half an ounce.

Rectified spirit, twelve ounces. Oil of bergamot, half an ounce. " lavender, one drachm. half a drachm. Attar of roses,

Beat the almonds with the rose water, so as to form an emulsion; melt the soap, wax, and almond oil together by a gentle heat, and rub the mixture with the emulsion; strain; dissolve the essential oils in the spirit, and mix with the strained emul-Redwood.

#### Goulard's Lotion.

R. Emulsion of bitter two hundred parts. almonds, Corrosive sublimate, Sal ammoniac, each, one part. Foy.

#### Almond Cream.

R. Marrow pomatum,

Almond oil, each, two ounces.

Melt by a gentle heat, and add

Oil of jasmine, two drachms, stirring till cold. As an application to the hair.

Bateman.

## Oil of Almonds.

The kernels of almonds are to be rubbed and shaken in a bag to remove the reddish dust that adheres to them, then ground in a mill or pounded in a stone mortar. The marc is to be subjected to pressure in a linen bag, and the oil filtered.

#### Cold Cream.

R. Rose water, two fl. ounces.
Oil of almonds, three troyounces and a half.
Spermaceti, one troyounce.
White wax, two drachms.

Melt together the oil, spermaceti, and wax, by means of a water-bath, add the rose water, and stir constantly until the mixture is cold.

U. S. Ph.

#### Almond Emulsion.

R. Compound almond

powder, one ounce.

Distilled water, eight fl. ounces.

Rub together, and strain.

Brit. Ph.

R. Sweet almonds, half a troyounce.
Gum Arabic, half a drachm.
Sugar, two drachms.
Water, half a pint.

Blanch the almonds, beat them with the gum and sugar till thoroughly mixed; then rub the mixture with the water gradually added, and strain.

U. S. Ph.

R. Blanched sweet almonds,

Sugar, each, one part. Water, twenty parts.

Rub together and strain. Paris Codex.

A good demulcent, in irritation or inflammation of mucous membranes, and may

be freely used.

Aromatic almond emulsion contains in one pint half a fl. ounce of orange-flower water in the place of the same quantity of water, and by adding to each fl. ounce half a grain of nitrate of potassium the nitrated almond emulsion of French pharmacy is obtained.

# Compound Almond Emulsion.

R. Sweet almonds, Hyoscyamus seed, Dilute bitter almond four parts. one part.

water, sixty-four parts.

Make an emulsion, and add

Powdered sugar, six parts.

Magnesia, one part.

Mix. Dose, a tablespoonful. Ph. Germ.

#### White Linctus.

R. Blanched sweet

almonds, one ounce.

Blanched bitter

almonds, thirty grains.
White sugar, one ounce.
Powdered tragacanth, eight grains.
Orange-flower

water, two drachms and a half.
Water, four ounces.

Beat the almonds with a little water and most of the sugar until a homogeneous paste is obtained, add gradually the remainder of the water, and strain. Triturate the tragacanth with the remainder of the sugar, then add gradually the emulsion, with long-continued trituration, and finally the orange-flower water. The result is about five ounces. Dose, a tablespoonful.

Paris Codex.

#### Green Linctus.

R. Pistachio nuts (Pistacia Vera)

No. 14.

Syrup of violets, one ounce.
Oil of almonds, half an ounce.
Gum tragacanth, sixteen grains.
Tincture of saffron, twenty drops.
Orange-flower water, two drachms.
Water, four ounces.

Make an emulsion. Soubeiran. Employed as a demulcent cough mixture. Dose, a tablespoonful.

## Emollient Clyster.

B. Oil of almonds,
Brown sugar, each,
Barley water,
Mix.

Barley water,
Saunders.

#### Bitter Almond Water.

R. Oil of bitter
almonds, sixteen minims.
Carbonate of
magnesium, one drachm.
Water, two pints.

Rub the oil with the carbonate, then with the water gradually added, and filter through paper.

U. S. Ph.

The full dose is a tablespoonful.

#### Concentrated Bitter Almond Water.

R. Bitter almonds, twelve parts.

Pound them, express the oil, avoiding heat,
and macerate with

Water, eighty parts,

Alcohol, two parts, and distil ten parts, or enough so that the distillate contains in one thousand parts one part of hydrocyanic acid, this quantity yielding, with nitrate of silver, five parts of dry cyanide of silver. Ph. Germ.

#### Diluted Bitter Almond Water.

R. Concentrated bitter almond
water, one part.
Distilled water, nineteen parts.
Mix. Also known as Cherry Water.

Ph. Germ.

## Diuretic Water.

R. Bitter almonds,
Dried elder flowers,
Peach kernels,
Cherry kernels,
Wine,

four ounces.
six ounces.
two ounces.
eight pints.

Digest for two days and distil one-half.

Palat. Ph.
Said to act as a diuretic in doses of half
an ounce, but requires to be used with much
caution.

# Oil of Bitter Almonds.

R. Bitter almonds, twenty pounds.
Water, a sufficient quantity.
Pound the almonds, express the oil, let the cake macerate in water for twenty-four hours, distil as long as the product is odorous, separate the oil, redistil the water, and again separate the oil.

Cottereau.

Very poisonous, especially when fresh; principally employed as a flavoring ingredient, but should always be used with great

caution. Dose, half a drop.

termittent fever.

#### Lockstadt's Pills.

R. Sulphate of quinia, three grains.
Aromatic powder, ten grains.
Oil of bitter almonds, one drop.
Extract of gentian, sufficient.
Make ten pills. The whole to be taken at a dose, before an expected paroxysm of in-

#### Mixtures of Oil of Almonds.

R. Oil of almonds, Simple syrup, Water, equal parts.

Make an emulsion. Ratier.

R. Oil of almonds,
Gum Arabic,
Water,

Make an emulsion.

R. Oil of almonds,
one parts.
seventeen parts.

Ph. Germ.

R. Oil of almonds,
Gum Arabic,
Orange-flower water,
Syrup of mallows,
Water,

each, half
an ounce.
one ounce.
three ounces.

Make an emulsion. Paris Codex.

R. Oil of almonds, one ounce.
Yolk of egg, one.
Syrup of mallows, one ounce.
Orange-flower water, two drachms.
Water, two ounces.

Make an emulsion. Guibourt.

R. Oil of almonds,
Syrup of orgeat, each,
Gum Arabic,
Bitter almond water, half an ounce.
Make an emulsion. Dose, a teaspoonful.
Radius.

R. Oil of sweet almonds,
Syrup of tolu, each, one fl. ounce.
Distilled water, six fl. ounces.
Solution carbonate
potassium, sufficient.
Make emulsion. A tablespoonful two or
three times a day in catarrh.

Ainslie.

#### Cosmetic Liniment.

R. Oil of almonds, one ounce.

Balsam of Mecca, one drachm.
Carb. of potassium, half a drachm.
Rose water, four fl. ounces.
Rub the balsam with the oil, add the carbonate, triturate for ten minutes, and gradually introduce the rose water.

#### Macassar Oil.

R. Oil of almonds, at will.
Alkanet root, sufficient to color.

sm of in-Phæbus. to scent. Steph. and Church.

#### Bandoline.

R. Oil of almonds, one ounce.

White wax, one drachm.

Tincture of mastic, three drachms.
Oil of bergamot, one drachm.

Melt the oil and wax together by a moderate heat, then add the tincture of mastic and oil of bergamot, and strain.

To fix and retain the hair in form.

Redwood.

#### AMYLUM

STARCH.

## Mucilage of Starch.

R. Starch, two drachms. Water, ten fl. ounces. Triturate the starch with the water gradually added, then boil for a few minutes.

Brit. Ph.

Mainly employed as a demulcent injection in irritation of the rectum, etc., and forms a good vehicle for laudanum and other active remedies when given in enemata.

# Compound Powder of Starch.

R. Liquorice root, one ounce. Starch. Gum Arabic, each. " tragacanth, ounces. Quince seed, Poppy seed, Blanched almonds, four ounces. twelve ounces. Sugar candy, Triturate well. Van Mons. Has been advised in spitting of blood,

Has been advised in spitting of blood, catarrh, and diarrhœa, in doses of half a drachm to a drachm.

#### Starch Lozenges.

R. Starch,
Orris root, each, half an ounce.
Extract of liquorice, one ounce.
Saffron, half an ounce.
White sugar, one pound.
Mix, and form into lozenges.
Pideret.
R. Starch, one ounce.
Gum Arabic, two ounces.
White sugar

White sugar, one pound.
Benzoic acid, half a drachm.
Rose water, sufficient
to form a paste. To be divided into loz-

These lozenges are somewhat stimulating, and are best suited to chronic catarrhs.

## Starch Jelly.

R. Starch, six ounces.
Water, six pounds.
Boil till reduced to three pounds, and add
Wine, four ounces.
Lemon juice, one ounce.
Simple syrup, two ounces.
Mix well, and permit to cool. Swediaur.
A nourishing diet for convalescents.

### Mixture of Starch and Suet.

R. Cow's milk, six pounds.

Mutton suet, two ounces.

Boil by a gentle heat, constantly stirring, and add

Starch, a spoonful.

Boil a short time, and add

White sugar, a sufficiency.

Recommended in wineglassfuls, in dysentery.

Pringle.

## Clyster of Starch.

R. Starch, half an ounce.

Water, a pint.

Mix the starch with three ounces of cold water, then add the remainder of the water boiling hot.

Paris Codex.

## AMYLI IODIDUM.

IODIDE OF STARCH.

R. Iodine, twenty-four grains.

Triturate with a little water, and add gradually

Powdered starch, one ounce.

Continue the trituration till the mixture assumes a deep and uniform color. Buchanan.

Dose, half a drachm, to be gradually increased to four drachms. Given in cases requiring the use of iodine.

#### ANEMONE.

#### A NEMONE.

A genus of perennial herbs with radical leaves. They are all acrid and stimulating. The species most generally employed are the A. pratensis and A. pulsatilla, both natives of Europe; A. Ludoviciana of this country appears to have the same properties, and has been employed by Dr. W. H. Miller in place of the A. pratensis which was at one time in much repute in amaurosis and chronic diseases of the skin.

Sex. Syst. Polyand. polygyn. Nat. Syst. Ranunculaceæ.

Lindley, Med. Flor. 2. Griffith, Med. Bot.

#### Extract of Anemone.

twenty parts. R. Fresh anemone, Pound in a mortar with a little water, express the juice, evaporate in a water-bath to two parts, add two parts of alcohol, filter after twenty-four hours, and evaporate Ph. Germ. to the proper consistence.

The dose is from one grain to four, gradually increasing. It has been advised in doses of half a grain to a grain, in combination with sugar of milk, in hooping-

cough.

## Anemone Pills.

R. Powder of anemone, one drachm. Extract of anemone, sufficient. Make sixty pills. Dose, one to five, three

times a day, gradually increasing. Said to have proved useful in amaurosis.

## Collyrium of Anemone.

R. Anemone, three drachms. sufficient Water,

to make six ounces of infusion; add

Corrosive sublimate, one grain. To be dropped in the eye, in opacity of the cornea and incipient cataract. Radius.

#### Water of Anemone.

four parts. R. Fresh anemone, sufficient Water, to prevent empyreuma. Distil six parts. Van Mons.

This is the best preparation, as it contains the active principle, but will not keep long. It is somewhat caustic, and has been recommended to remove freckles on the skin.

## ANETHUM.

#### DILL.

This is the fruit of Anethum graveolens, an herbaceous plant cultivated in Europe. It is flat, of an oval shape, and has a pale membranous margin, an aromatic odor, and a warm bitterish taste.

Sex. Syst. Pentand. digyn. Nat. Syst. Api-

Dill is an aromatic stimulant and carminative, and is given in doses of ten to thirty grains; the volatile oil, which is obtained by distillation with water, is used in doses of one to five drops.

#### Dill Water.

R. Dill fruit, bruised, one pound. Water, twenty pounds. Distil ten pounds. Brit. Ph. Used mainly as a vehicle.

## ANGELICA.

#### ANGELICA.

The only species of this genus that was formerly officinal in our Pharmacopæia is A. atro-purpurea. This possesses much the same properties as the Garden Angelica, and is popularly used in flatulent colic and cardialgia. In Europe, the A. officinalis is generally used; and, as both species appear to possess the same properties, they may be indifferently employed.

Sex. Syst. Pentand. monog. Nat. Syst.

Apiaceæ.

Torrey and Gray, Flor. 1, 64. Griffith, Med. Bot. 322.

# Compound Spirit of Angelica Fruit.

R. Anise,

Angelica fruit, each, half a pound. Proof spirit, one gallon.

Water sufficient to prevent empyreuma. Macerate for twenty-four hours, and distil a gallon.

A stimulant, used as a stomachic and carminative. Dose, half a drachm to four Dublin Ph. 1826. drachms.

## Tincture of Angelica.

R. Angelica root, one part. Alcohol, sp. gr. 0.89, five parts. Macerate for a week, and filter.

Danish Ph. Employed as a carminative and alexipharmic, in doses of one fl. drachm.

#### Compound Spirit of Angelica.

R. Angelica root, sixteen parts. Valerian, Juniper berries, each, four parts. Alcohol, seventy-five parts. one hundred and Water, twenty-five parts.

Macerate for twenty-four hours, distil one hundred parts, and add

two parts. Camphor, Dissolve. Ph. Germ.

#### Water of Angelica.

R. Angelica root, one part. Water, six parts. Distil three parts. Cottereau.

### Errhine Mixture.

R. Water of angelica,

orange flowers,

roses, equal parts.

Pierquin. This has been recommended to destroy the fetid smell in ozœna.

# Conserve of Angelica.

R. Fresh root of angelica, one part. Water, eight parts. Macerate for a few days, boil, clarify the decoction, and add

one part and a half. Sugar, Cook the root in the syrup, and preserve in this state, or dry. Giordano.

# Essence of Angelica.

R. Angelica root, one part. Diluted alcohol, eight parts. Water, sixteen parts. Distil off six parts. Stomachic and carminative. Van Mons.

## ANGUSTURA.

# ANGUSTURA BARK. CUSPARIA BARK.

This is recognized by the U. S. Pharmacopæia as the product of Galipea officinalis, but is also obtained from one or more other species, all natives of South America. It is compact, in flat or rolled, but seldom quilled pieces, of a light gray color externally, and of a yellowish-fawn within. It is very fra-gile, with a resinous fracture. The odor is faint but disagreeable; the taste is bitter and somewhat aromatic, leaving a sensation of pungency. Its powder is pale yellow. Sex. Syst. Heptand. monog. Nat. Sy

Nat. Syst.

Hancock, Trans. Med. Soc. 1849. Griffith,

Med. Bot. 192.

It is a stimulating tonic, in large doses acting on the stomach and bowels. It is more used in chronic diarrhœa, and a debilitated condition of the stomach and bowels, than as a febrifuge. Dose, ten to thirty grains.

## Infusion of Angustura.

R. Bruised angustura bark, half a troyounce.

Boiling water, one pint. Macerate for two hours in a covered vessel, and strain. It may also be obtained by percolating the bark with water. U. S. Ph.

The infusion of the Brit. Ph. is about one-fifth weaker.

The dose is two fl. ounces, every two to four hours.

# Tincture of Angustura.

R. Powdered angustura bark. and a half ounces. Proof spirit, two pints. Macerate for fourteen days, then filter.

Ed. Ph.This contains the active principles of the bark, and may be given in the dose of one or two fl. drachms.

## Electuary of Angustura.

R. Powdered angustura, half an ounce. Powdered canella, half a drachm. Honey, a sufficient quantity. Make an electuary.

This has been employed with benefit in chronic diarrhœa and dysentery, in doses

of about a drachm.

# Mixture of Angustura.

R. Infusion of angustura, fl. ounces. Cinnamon water. half fl. ounce. Laudanum, twenty drops. Mix. Three spoonfuls a day. Radius.

#### ANISUM.

## A NISE.

This is the fruit of Pimpinella anisum, a perennial plant, cultivated largely in some parts of Europe, and often met with in gardens in this country. The fruit is of a gray-ish-green color, of an ovate, compressed form, with five pale, narrow ridges. It is aromatic, and has a pleasant, sweetish taste.

Sex. Syst. Pentand. digyn. Nat. Syst. Apia-

Linn. Sp. Pl. 378. Griffith, Med. Bot. 319. Anise is an aromatic stimulant, and is used in various forms, in colic and dyspepsia, and to prevent the griping of some purgatives. The oil is officinal, but is almost entirely superseded by that of Illicium anisatum, which is nearly identical.

#### Spirit of Anise.

R. Oil of anise, one fl. ounce. Stronger alcohol, fifteen fl. ounces. U. S. Ph. Dose, twenty to forty drops, on sugar.

R. Anise, bruised, one part. Alcohol of 56 per ct., eight parts. Macerate for two days, add sufficient water, and distil eight parts. Paris Codex.

#### Essence of Anise.

R. Oil of anise, one fl. ounce. Rectified spirit, four fl. ounces. Mix. Dose, ten to twenty minims.

Brit. Ph.

#### Anise Water.

R. Oil of anise. half a fl. drachm. Carbonate of magnesium, drachm.

Distilled water, two pints. Rub the oil with the carbonate, then with the water, gradually added, and filter.

It may also be prepared by distilling eight pints from a mixture of ten troyounces of powdered anise and sixteen pints of water.

Dose, a tablespoonful.

## Anise Lozenges.

R. White sugar,

Anise water, each, two ounces. Evaporate to the consistence of honey, and add a mixture of

White sugar, four ounces. Oil of anise, half a drachm. Pour on a cold marble slab. Cottereau. Used as a carminative and anti-dyspeptic.

#### Mixture of Anise.

R. Powdered anise, fennel, Extract of liquorice, each,

one ounce. Syrup of mallows, twelve ounces.

Mix. Hanover Pharm. Said to be an excellent carminative, especially for children, in doses of about a teaspoonful.

#### Tincture of Anise.

R. Spirit of anise, sixteen ounces. Elixir proprietatis, one ounce. Aromatic confection, half an ounce.

Pink flowers, one drachm. Filter, after sufficient maceration.

Wirtemberg Ph. Stomachic, carminative, and pectoral. Dose, one to two drachms.

#### Oil of Anise Mixture.

R. Oil of anise, twelve minims. R. Chamomile, Sugar, one drachm.

Tincture of ginger, two fl. drachms. Peppermint water, six fl. ounces. Mix. Dose, two or three spoonfuls, as a carminative. Ainslie.

# ANISUM STELLATUM.

## STAR ANISE.

Under this name the fruit of Illicium anisatum is recognized by several European pharmacopæias. This evergreen tree is indigenous to Japan and China. Sex. Syst. Polyand. polygyn. Nat. Syst.

Magnoliaceæ.

The fruit consists of about eight capsules, which are united at their base, forming the figure of a star. Each capsule is usually ruptured at its upper margin, showing the flat, ovate, shining seed. The capsules contain a considerable portion of volatile oil, which is chemically and medicinally identical with that of true anise, but is rather less agreeable in flavor.

## ANTHEMIS.

### CHAMOMILE.

Several species of Anthemis are employed in medicine, but the most important and the only one recognized in the U.S. Pharm., is A. nobilis. This is an herbaceous perennial, a native of Europe, where it is also extensively cultivated, and is also to be found in gardens in this country. The part used is the flowers; these, as found in the shops, are large, roundish, of a yellowishwhite color, a peculiar, somewhat balsamic odor, and a warm, bitter, aromatic taste.

Sex. Syst. Syngen. super. Nat. Syst. As-

teraceæ.

Linn. Sp. Pl. 1260. Griffith, Med. Bot.

Chamomile is an aromatic bitter tonic, in small doses, but emetic in large ones; the usual mode of administration is in infusion.

#### Infusion of Chamomile.

R. Chamomile, half a troyounce. Boiling water, one pint. Macerate for ten minutes in a covered vessel, and strain. U. S. Ph.

The infusion of Brit. Ph. is about one-

fifth weaker.

When cold, it is tonic in doses of one or two fl. ounces, several times a day. As an aid to the operation of emetics, it should be given in a tepid state, and largely.

# Extract of Chamomile.

one pound. Water, ten pounds.

Boil down to one-half, press, filter whilst hot, and evaporate in the water-bath to proper consistence, adding at the end of the process fifteen minims of oil of chamomile.

Brit. Ph.

A mild, bitter tonic, in doses of ten to

twenty grains.

#### Mixture of Chamomile.

R. Infusion of chamomile, four fl. ounces.

Syrup of orange-flowers, one fl. ounce.

Ethereal tincture of valerian, one fl. drachm.

This has proved useful in hysteria and other nervous diseases, especially where the stomach is disordered. Dose, a dessert-spoonful.

R. Extract of chamomile, Gum Arabic, each, two drachms. Chamomile water, five fl. ounces. Tamarind pulp, Syrup of chamomile,

each, one ounce.

Mix.  $Ph \omega bus$ .

Said to be useful in diarrhea, in table-

spoonful doses.

## Syrup of Chamomile.

R. Chamomile, four ounces.

Boiling water, forty ounces.

Infuse for six hours, express, strain, and decant. Dissolve in every ten ounces of the colature nineteen ounces of sugar.

Paris Codex.

R. Coarsely powdered
chamomile, one ounce.
Cold water, sufficient.
Coarsely powdered
sugar, twenty ounces.

Obtain twelve fl. ounces of infusion by displacement of the chamomile and water. Remove the residue, and substitute the sugar in its place; on this pour the infusion till entirely dissolved. Dose, a table-spoonful.

E. Parrish.

## Terebinthinated Oil of Chamomile.

R. Chamomile, one hundred and twenty parts.

Oil of turpentine, one part.

Beat the chamomile into a pulpy mass with

Beat the chamomile into a pulpy mass with sufficient water, add the oil of turpentine, and distil until oil ceases to come over. Separate this from the water, and filter. Used in liniments for rheumatic affections. Corput.

#### Oleo-infusion of Chamomile.

R. Bruised chamomile, one part.
Olive oil, ten parts.
Digest for two hours in a covered vessel,
express and filter.

Paris Codex.

## Compound Chamomile Pills.

R. Assafetida, one scruple and a half.

Extract of chamomile, one drachm.

Powdered rhubarb, one scruple.

Make mass, and divide into thirty pills.

Three, twice a day in flatulent dyspepsia.

Ainslie.

## ANTIMONIUM.

#### ANTIMONY.

A metal of a silvery blue color, very brilliant, of a lamellar texture, brittle, and easily pulverized. Metallic antimony, or Regulus of antimony, is not officinal in our Pharmacopæia, but is the basis of a great number of very important preparations.

# ANTIMONII CHLORIDUM.

#### CHLORIDE OF ANTIMONY.

R. Sulphuret of antimony, one part.

Muriatic acid, three parts.

Dissolve by aid of a gentle heat, let stand, decant, evaporate, and then distil almost to dryness.

Paris Codex.

#### Solution of Chloride of Antimony.

R. Black sulphuret of antimony, one pound. Muriatic acid, four pints.

Add, apply a gentle and increasing heat, and finally boil for fifteen minutes. Strain and boil down to two pints (imper.). Sp. gr. 1.47.

Brit. Ph. The specific gravity directed by Ph.

Germ. is 1.34 to 1.36.

The butter of antimony is used as a caustic, to destroy fungous flesh and to cau-

Ointment of Chloride of Antimony.

terize poisoned wounds.

R. Liquid chloride of antimony, Corrosive sublimate, each, one drachm. Powdered savine, two drachms.

Lard, six drachms.

Mix. To destroy venereal excrescences.

Radius.

## ANTIMONII OXIDUM.

OXIDE OF ANTIMONY.

R. Solution of chloride

of antimony, sixteen fl. ounces. Carbonate of sodium, six ounces. Water, twenty pounds.

Pour the antimonial solution into the water, mix, let settle, decant, and wash twice, each time with ten pounds of distilled water, and decant; then add the carbonate previously dissolved in two and a half pounds of water, stir frequently for half an hour, collect on a calico filter, and wash thoroughly with boiling distilled water. Dose, one to four grains.

Brit. Ph.

The process of U.S. Ph. is similar.

#### Antimonial Powder.

R. Oxide of antimony, one ounce.
Phosphate of calcium, two ounces.
Mix thoroughly. Dose, three to ten grains.

Brit. Ph.

This is a substitute for James's antimonial powder.

#### James's Powder.

R. Tartar emetic, one scruple.
Prepared burnt hartshorn,
Oxide of antimony, each, five
scruples.

Mix, and divide into twenty-one grain powders. Said to be the formula by which the original powder was prepared by Dr. James. (Vid. *Phil. Journ. Pharm.*, vi. 282.)

# Pills of Antimonial powder and Calomel.

R. Antimonial powder, ten grains.

Powdered opium,
Calomel, each, two grains.
Conserve of roses, sufficient.

Mix, and make four pills. Two to be taken at bedtime in acute rheumatism. Ellis.

#### ANTIMONII SULPHURETUM.

SULPHURET OF ANTIMONY.
BLACK ANTIMONY.

The sulphuret or crude antimony is now seldom used as a medical agent, but is the

basis of almost all the preparations of that metal. Some forms of exhibition are, however, still in favor on the continent of Europe.

# Sulphurated Antimony.

R. Sulphuret of antimony, six troyounces.

Solution of potassa, four pints. Distilled water,

Diluted sulphuric

acid, each, a sufficient quantity.

Mix the sulphuret with the solution of potassa and twelve pints of the water, boil by a gentle heat for two hours, frequently stirring, and adding more water, to keep up the original quantity. Strain, while hot; and gradually add the sulphuric acid as a precipitate is produced; wash well with hot water, dry, and powder. U. S. Ph.

In the process of Brit. Ph. soda is sub-

stituted for potassa.

Dose, one to five grains.

# Pills of Sulphuret of Antimony.

R. Sulphuret of antimony, one ounce.
Guaiacum, two drachms.
Extract of fumitory, sufficient.

Mix, and make pills of two grains each.

Radius.

Formerly much employed in Germany, as an alterative in diseases of the skin and rheumatic affections.

R. Sulphuret of antimony, half a drachm.

Extract of opium, five to eight grains.

" guaiacum, two drachms.

Make fifty pills. Foy.

Advised in gouty affections; nine pills being given three times a day.

# Lozenges of Sulphuret of Antimony.

R. White sugar, one hundred and ninety-two parts.
Sulphuret of antimony, eight parts.

Mucilage of gum
Arabic, one part.

Mix, and make lozenges of twelve grains, each containing half a grain of the sulphuret.

Béral.

Much employed in Europe, as an alterative in diseases of the skin, in rheumatism, gout, etc.

Ointment of Sulphuret of Antimony.

four ounces. R. White wax, twelve ounces. Olive oil,

Melt together, and add

Powdered charcoal, two ounces. Precipitated sulphur,

Sulphuret of anti-

one ounce. mony, each, Stir well until cold. Radius.

Used as an application in tinea capitis.

# Oxysulphuret of Antimony.

R. Carbonate of

sodium, twenty-three troyounces.

Water, sixteen pints. Sulphuret of

antimony, one troyounce.

Boil the antimony for an hour in the solution of soda, filter the hot liquor into a warm earthen vessel, cool very slowly, wash the precipitate with cold water, dry at a moderate temperature, and keep in wellclosed bottles. U. S. Ph.

This is likewise the process of the Paris

Codex and Ph. Germ.

Dose, one to three grains.

#### Kermesine Powder.

R. Kermes mineral, two grains. Sugar of milk,

Gum Arabic, each, one drachm. Divide into six powders.

Given as a diaphoretic and expectorant, in the dose of one every four hours.

#### Compound Kermesine Powder.

R. Kermes mineral, half a drachm. Ipecacuanha, one grain. Prepared chalk,

Gum Arabic, each, twelve grains. Mix, and divide into three powders; one to be taken three times a day, in a spoonful of St. Marie.

This formula has been much praised in hooping-cough; the proportions are in-tended for a child of about twelve years of age.

## Lozenges of Kermes Mineral.

R. Kermes mineral. Powdered squill, each. sixty grains. Extract of opium, one drachm. Ipecacuanha, two drachms.

White sugar, three ounces. Mucilage of tragacanth, a sufficient quantity.

Mix, and make four hundred lozenges.

These are expectorant and calming in catarrh. One is to be taken every two hours.

one drachm. R. Kermes mineral, Powdered gum Arabic, eight ounces.

Extract of opium, twelve grains. liquorice, two ounces. thirty-two ounces. Sugar, Oil of aniseed, six drops.

Mucilage of tragacanth,

sufficient. Mix, and form ten grain lozenges. Known as Tronchin's lozenges. Used in catarrh. Van Mons.

two drachms. R. Benzoic acid, thirty-two ounces. Sugar, Powdered orris root, four drs. gum Arabic,

two ounces. four ounces. starch, four fl. ounces. Water,

Mix, and make fifteen grain lozenges.

Vandamme.

#### Emulsion with Kermes Mineral.

ten grains. R. Kermes mineral, one ounce. Oxymel of squill, Emulsion of gum Arabic,

four ounces.

Mix. A tablespoonful occasionally.

Radius.

## Mixture with Kermes Mineral.

R. Kermes mineral, two grains. one drachm. Gum Arabic, four fl. ounces. Syrup, of grapes, one fl. ounce. Mix. A tablespoonful occasionally in catarrh, when expectoration is difficult. Pierquin.

## Golden Sulphuret of Antimony.

R. Mother water of kermes mineral. at will. Add gradually,

Acetic acid,

till a precipitate is no longer formed. Wash this well in cold water, and dry by a gentle heat. Dose, one to ten grains. Paris Codex.

# Powder of Golden Sulphuret of Antimony.

R. Golden sulph. of antimony, Camphor, each, a grain and a half to two grains.

Nitrate of potassium, half a drachm to one drachm.

Gum Arabic,
White sugar, each, one drachm.
Triturate well, and divide into six powders.
Radius.

The dose is one, every two hours, in peripneumonia, after a reduction of the primary symptoms.

R. Golden sulph. of anti-

mony, eight grains.
Opium, two grains.
Powdered Peruvian bark,

chamomile,

each, four scruples.

Mix, and divide into eight powders; to be taken during the apyrexia of intermittent fever.

Radius.

## Mixture of Sulphuret of Antimony.

R. Golden sulph. of anti-

mony, six grains.
Extract of lettuce, one scruple.
Syrup of seneka, two fl. ounces.
Mix. A teaspoonful every two hours.

Phœbus.

## Sulphuret of Antimony and Lime.

R. Golden sulph. of anti-

mony, one part. Quicklime, three parts.

Triturate together, and add

Boiling water, twenty-four parts. Dry with a gentle heat, constantly stirring, and keep in a well-closed bottle.

Batav. Ph.
Emetic and resolvent. Much praised in gout, rheumatism, scrofula, etc. Dose, one to six grains.

### Pills of Sulphuret of Antimony and Lime.

R. Sulphuret of antimony and lime, half a drachm. Mucilage of tragacanth,

one drachm.

Mix, and make sixty pills; five, thrice a day.

Augustin.

### Plaster of Sulphuret of Antimony and Lime.

R. Yellow wax, one drachm and a half.

Melt, and mix

Pitch, one ounce; and incorporate in the cooling mixture

Sulphuret of antimony and lime, five scruples.

As a plaster in sciatica, chronic headache, etc. It sometimes occasions pustules.

Radius.

## ANTIMONII SULPHAS.

## SULPHATE OF ANTIMONY.

R. Antimony, two parts.
Sulphuric acid, three parts.

Heat in an earthen vessel, stirring from time to time, leave the mixture on the fire till it has assumed a grayish-white color, wash carefully, to remove the excess of acid, and dry the powder. Van Mons.

## ANTIMONII ET POTASSII TARTRAS.

TARTAR EMETIC—TARTARATED
ANTIMONY.

R. Oxide of antimony, two troyounces.

Cream of tartar in powder, two troyounces and

Distilled water, eighteen fl. ounces.

Boil for an hour, filter while hot, and crystallize.

U. S. Ph.

Dose, as a diaphoretic, one-twelfth to onesixth of a grain; as an emetic, one to three grains.

### Powder of Tartar Emetic.

R. Tartar emetic, one grain.
Sugar, thirty grains.
Mix, and divide into ten powders. One
every three or four hours as a diaphoretic
in fevers, after bleeding. A. T. Thomson.

### Compound Powder of Tartar Emetic

R. Tartar emetic, half a drachm Sulphate of potassium, one ounce. Powdered liquorice, one ounce and a half.

e, thrice a Mix well. Two scruples contain one grain Augustin. of tartar emetic. Beasley.

R. Tartar emetic, one grain.

Kermes mineral, two grains.

Powdered orris root, one scruple.

" gum Arabic,
" sugar, each, one drachm.

Mix, and divide into twenty-four powders. One every hour, as an expectorant. Cadet.

### Powder of Tartar Emetic and Ouinia.

R. Tartar emetic, three grains.
Sulphate of quinia, ten grains.
Mix, and divide into six powders. One,
every two hours, in apprexia of obstinate
intermittents. Both vomits and purges.

Gola.

## Powder of Tartar Emetic and Phosphate of Calcium.

R. Tartar emetic, one grain.
Posphate of calcium, thirty-two grains.

Mix. To be divided into four powders; one to be taken in the evening, in chronic dysury produced by checked perspiration.

Swediaur.

# Powder of Tartar Emetic and Ipecacuanha.

R. Tartar emetic, two grains.
Ipecacuanha, two scruples.
Starch, half a drachm.
Mix, and divide into three powders; one every quarter of an hour, till vomiting is induced.

Radius.

### Bolus of Tartar Emetic.

R. Tartar emetic, six grains.

Powdered Peruvian
bark, six drachms.
Extract of juniper, sufficient.

Mix, and make sixty boluses. To be taken in twenty-four hours in quartan intermittents.

Laennec.

## Pills of Tartar Emetic and Camphor.

R. Tartar emetic,
Powdered opium,
" camphor,
" camphor,

Alcohol,
Conserve of roses,
Powder the camphor with the alcohol, add the other powders, mix and incorporate

with the conserve, and divide into twelve pills. One every fourth hour as a diaphoretic.

Ellis.

## Pills of Tartar Emetic and Opium.

R. Tartar emetic, Opium, each, one grain and a half. Powdered tragacanth,

Conserve of roses, each, sufficient.

Mix, and make twenty-five pills. Two
night and morning, in chronic pulmonary
catarrh.

Parrish.

R. Tartar emetic twelve grains.
Opium, ten grains.
Crumb of bread,

Gum Arabic, each, sufficient.

Mix, and make pills of half a grain. Dose, one increased to two in chronic rheumatism.

Broussais.

### Pills of Tartar Emetic and Guaiacum.

R. Tartar emetic, one grain.
Powdered guaiacum, half a drachm.

Pill of aloes and
myrrh, half a drachm.
Molasses, sufficient.
Mix, and make sixteen pills.

Beasley.

### Solution of Tartar Emetic.

R. Tartar emetic, four grains.
Sugar, one drachm.
Distilled water, four fl. ounces.
Dissolve. A tablespoonful every ten or fifteen minutes till it operates.

Ellis.

## Solution of Tartar Emetic and Squill.

R. Tartar emetic, two grains.
Oxymel of squill, half an ounce.
Water, two fl. ounces and a half.
Mix. One-half to be taken, and if it does not vomit in fifteen minutes, the remainder.

Augustin.

### Emulsion of Tartar Emetic.

R. Tartar emetic, five grains.
Camphor, half a drachm.
Blanched almonds,
Syrup, each, one ounce.
Water, ten fl. ounces.
Make an emulsion with the almonds and

Make an emulsion with the almonds and water, mix the camphor rubbed with a few drops of alcohol, and add the tartar emetic; when dissolved, add the syrup; emetic and expectorant, according to the dose.

Van Mons.

## Clyster of Tartar Emetic.

R. Tartar emetic, one to two scruples. Tepid solution of gum

Arabic, one pint.

To overcome obstinate constipation. To be used with much caution. Chapman.

R. Tartar emetic, three to eight grains.
Infusion of arnica, twelve fl. ounces.

Dissolve. In apoplexy and cerebral affections. Foy.

### Lotion of Tartar Emetic.

R. Tartar emetic, one scruple. Water, one pint. Dissolve. In cutaneous affections.

Pierquin.

### Lotion of Tartar Emetic and Corrosive Sublimate.

R. Tartar emetic, one drachm.
Corrosive sublimate, five grains.
Compound spirit of

Water, one fl. drachm. one fl. ounce.

Mix. Wet the finger with the solution, and rub on the part for five or ten minutes; it will cause a pustular eruption in a few hours.

Hannay.

### Lotion of Tartar Emetic and Camphor.

B. Tartar emetic, one drachm.
Boiling water, one pint.
Tincture of camphor, half a
fl. ounce.

Mix. As a counter-irritant on the chest, in pulmonary complaints. Augustin.

## Ointment of Tartar Emetic.

R. Tartar emetic, two drachms.
Sugar, one drachm.
Cinnabar, five grains.
Spermaceti ointment, nine
drachms.

Mix. Jenner.

R. Tartar emetic, one hundred grains.

Lard, four hundred grains.

The same proportions are directed by Brit. Ph. and Ph. Germ. The Paris Codex directs one part of tartar emetic to three parts of ointment of benzoin.

The ointment occasions a pustular eruption upon the skin.

Compound Tartar Emetic Ointment.

R. Tartar emetic,
Sal ammoniac,
Camphor,
Musk,
Lard,
Alf a drachm.
one drachm.
twenty-five grains.
ten grains.
one ounce.

Mix. As a counter-irritant in chronic diseases of the liver. Fabre.

### Plaster with Tartar Emetic.

R. Tartar emetic, in fine

powder, one troyounce. Burgundy pitch, four troyounces.

Melt the pitch, strain, add the powder and stir well while cooling.

U. S. Ph.

stir well while cooling. U. S. Ph. Or it may be made by sprinkling tartar emetic on a pitch or adhesive plaster.

Ellis.

It takes some time to produce its effect, and the eruption that ensues is very irritating and painful.

Resin plaster, one ounce.
Resin, four drachms.
Venice turpentine, three drachms.
Melt together by a gentle heat, and when
nearly cold add

Powdered tartar

emetic, one drachm.

To be applied to the nape of the neck in scarlatina in children, also in rheumatism.

Niemann.

### Ammoniacal Liniment with Tartar Emetic.

R. Ammoniacal liniment, one fl. ounce.

Tartar emetic, one drachm.

Mix. To indolent tumors, etc. Ellis.

### Antimonial Wine.

R. Tartar emetic, thirty-two grains.
Boiling distilled water, one fl.
ounce.

Sherry wine, sufficient.

Dissolve the salt in the water and add wine sufficient to make one pint.

U. S. Ph.

Antimonial wine of Brit. Ph. and Ph. Germ. is of the same strength. Paris Codex directs one part of tartar emetic to three hundred parts of Malaga wine.

Dose, as an emetic for children, from thirty drops to a fl. drachm, every fifteen minutes, till it operates.

## Collyrium with Antimonial Wine.

R. Antimonial wine, half fl. ounce. Rose water, four fl. ounces. Balsam of Fioraventi, two drops.

Mix. Recommended in chronic ophthalmia.

Spielmann.

# Mixture of Antimonial Wine and Ammoniac.

R. Ammoniac, one scruple.
Oxymel of squill, half fl. ounce.
Antimonial wine, one fl. drachm.
Syrup of liquorice, one fl. ounce
and a half.

Mix. A spoonful every two hours, as an expectorant.  $Ph \alpha bus.$ 

# Mixture of Antimonial Wine and Laudanum.

R. Antimonial wine, three fl. drachms.

Laudanum, one fl. drachm.

Mix. Fifteen drops, every half hour or hour in rheumatic diarrhœa.

Monro.

### Mixture of Antimonial Wine and Bittersweet.

R. Antimonial wine, half fl. drachm.

Syrup of marsh

mallow, three fl. drachms.

Fennel water, one fl. ounce and a half.

Extract of bittersweet, fifteen grains.
Cream of tartar, forty-five grains.
Mix. A teaspoonful every hour, in hooping-cough in young children. Phæbus.

## Syrup of Antimonial Wine.

R. Antimonial wine,
Sal ammoniac,
Ammoniac,
Oxymel of squill,
Syrup of mallow, half a pound.
Mix. In pectoral affections, to facilitate expectoration and to keep the bowels open.
A spoonful every hour.

Cadet.

## APOCYNUM.

### DOGSBANE.

Two species of this genus are officinal in the U. S. Ph.—A. androsæmifolium and A. cannabinum, possessed of much the same properties; these are emetic, cathartic, and sometimes diuretic. The latter is rather the more powerful.

Sex. Syst. Pentand. digyn. Nat. Syst.

Apocynaceæ.

## Balsam of Fioraventi, two drops. | A. ANDROSEMIFOLIUM.

### DOGSBANE.

Bigelow, Med. Bot. ii. 148. Griffith, Med. Bot. 449.

A native of most parts of the U.S. Emetic and diaphoretic. Dose, 40 grains as an emetic; where it is wished to act on the skin, five to ten grains combined with a grain of opium.

## A. CANNABINUM.

### INDIAN HEMP.

Griscom, Am. Journ. Med. Sci. xii. 55. Griffith, Med. Bot. 450.

Found in many parts of the United States. Emetic, in doses of fifteen to thirty grains.

## Decoction of Indian Hemp.

R. Root of Indian hemp, half an ounce.

Water, a pint and a half.

Boil to a pint. Griscom.

This has been found useful in dropsy, in doses of one or two fl. ounces, two or three times a day, acting as a hydragogue purgative.

### Extract of Indian Hemp.

R. Powdered root of
Indian hemp, one pound.
Water, one gallon.
Macerate for twenty-four hours, boil down
to one quart, strain, and evaporate to a
proper consistence. Dose, three to five
grains. Acts like the decoction, but is not
as efficient.

### ARALIA.

Most of the species of this genus are medicinal, but two only are officinal.

Sex. Syst. Pentand. pentag. Nat. Syst.

Araliaceæ.

## A. NUDICAULIS

### FALSE SARSAPARILLA.

Torrey and Gray, Fl. i. 646. Griffith, Med. Bot. 344.

 A mild, stimulating diaphoretic, the root has been employed as a substitute for sarsaparilla; best given in infusion.

## A. SPINOSA.

### ANGELICA TREE.

Torrey and Gray, Fl. i. 647. Griffith, Med. Bot. 345.

The bark is a stimulating diaphoretic; a decoction has been found useful in rheumatic, syphilitic, and cutaneous affections; as has also a tincture.

## ARGENTUM.

### SILVER.

A solid, white, brilliant, very ductile metal. It is wholly soluble in nitric acid. The only officinal preparations in our pharmacopœia are the nitrate, oxide, and cy-anide; but several others are employed in Europe.

## ARGENTI CHLORIDUM.

CHLORIDE OF SILVER.

R. Solution of nitrate of silver, at will.

Add gradually a solution of common salt, wash well the resulting precipitate, and dry by a gentle heat in the shade.

## Powder of Chloride of Silver.

R. Chloride of silver, one grain. Powdered orris root, two grains. Triturate well, and divide into ten parts. Used in syphilis, in friction on the tongue.

## Ammoniated Chloride of Silver.

R. Liquid ammonia, at will. Saturate, by the aid of heat, with recently precipitated and well-washed chloride of silver. Filter whilst hot, and crystallize.

### Pills of Ammoniated Chloride of Silver.

R. Ammoniated chloride of silver, one grain. Powdered orris root, two grains. Conserve of linden flowers, sufficient. Mix, and make fourteen pills. Serre.

## ARGENTI CYANIDUM.

CYANIDE OR CYANURET OF SILVER.

R. Nitrate of silver, Ferrocyanide of

Sulphuric acid, one troyounce and a half. Distilled water, sufficient.

Dissolve the nitrate in a pint of water, and put the solution in a glass receiver. Dis-solve the ferrocyanide in ten fl. ounces of water, and pour the solution into a retort adapted to the receiver. To the solution in the retort add the sulphuric acid diluted with four fl. ounces of water, and distil until the liquid that passes produces no longer a precipitate in the receiver. Then wash and dry the precipitate.

U. S. Ph.

wash and dry the precipitate. U. S. Ph. Used in syphilis, in doses of one-twelfth

to one-tenth of a grain.

## Ointment of Cyanide of Silver.

R. Cyanide of silver, ten grains. Lard, one ounce.

Employed as an application to ulcerations of the cornea, irritable ulcers, etc.

## ARGENTI IODIDUM.

IODIDE OF SILVER.

R. Solution of nitrate of at will. silver,

Add gradually a

of the cyanide.

Solution of iodide of potassium. Wash the precipitate, and dry by a gentle Patterson.

Dose, one or two grains.

### Ointment of Iodide of Silver.

R. Iodide of silver, ten grains. one ounce. Lard, Serre. Used in the same cases as the ointment

## ARGENTI NITRAS.

NITRATE OF SILVER.

R. Silver, in small pieces, one troyounce. Nitric acid, two and a half troyounces. Distilled water, one fl. ounce.

Mix the acid with the water, and dissolve the silver in the mixture, on a sand-bath, keeping an inverted funnel over the porcelain capsule, containing the mixture; then gradually increase the heat, so as to dry the salt. Melt this and continue the heat until free nitric acid is entirely dissipated. Then potassium, each, two troyounces. dissolve in six fl. ounces of distilled water, let subside and decant. Wash the residue with a fluidounce of water, evaporate the clear decanted liquids, crystallize and dry.

U. S. Ph.

### Fused Nitrate of Silver.

R. Nitrate of silver, at will.

Melt in a porcelain capsule and continue the heat until frothing ceases, then pour into silver moulds.

U. S. Ph.

Used as a tonic and antispasmodic, in doses of a fourth of a grain, gradually in-

creased.

### Pills of Nitrate of Silver.

R. Crystallized nitrate of silver, one grain. Crumb of bread, one drachm.

Make sixteen pills. Guibourt.
Each pill contains a sixteenth of a grain of the nitrate.

R. Nitrate of silver, ten grains.
Opium, four grains.
Extract of gentian,
liquorice,

each, a drachm and a half.

Make pills of a grain each. These each contain a twentieth of the nitrate. Brera.

R. Nitrate of silver, two grains. Crumb of bread, sufficient.

Mix well, and divide into pills. One

to be taken every six hours.

Advised in chronic epilepsy and other spasmodic disorders. To prevent the blue tinge of the skin, so often produced by a continued use of this salt of silver, eight drops of diluted nitric acid in a fl. ounce of water, should be taken after each pill.

A. T. Thomson.

### Mackensie's Solution.

R. Nitrate of silver, one scruple.

Distilled water, one fl. ounce.

Dissolve. Mackensie.

Used to wash the throat and fauces, in affections of those parts.

## Nitrate of Silver Collyrium.

R. Nitrate of silver, ten grains.

Laudanum, half a fl. drachm.

Distilled water, one fl. ounce.

Mix. Foy.

Employed as a wash in purulent ophthalmia.

## Anti-Epileptic Mixture.

R. Nitrate of silver, twelve grains.

Laudanum, twenty drops.

Mucilage of gum Arabic, one
ounce.

Mix. Radius.

Given in epilepsy, in doses of twenty drops, twice a day.

### Hair Dye.

R. Silver, two drachms.
Steel filings, half an ounce.
Nitric acid, one ounce.
Rain water, eight fl. ounces.
Dissolve, and strain.
means of a fine brush.

To be applied by
Bateman.

### Indelible Ink.

R. Carbonate of sodium, half an oz.
Distilled water, four ounces.
Mix, and make mordant.

R. Nitrate of silver,
Gum Arabic,
Sap green,
Distilled water,
Mix, and make ink.

five scruples.
two drachms.
one scruple.
one fl. ounce.

#### Indelible Ink without Mordant.

R. Nitrate of silver, one ounce.

Crystallized carbonate of
sodium, one ounce and a half.

Tartaric acid, eight scruples.

Strong solution of ammonia,

Archil, two fl. ounces.

Archil, half fl. ounce.

White sugar, six drachms.

Powdered gum Arabic, ten
drachms.

Distilled water, sufficient.

Dissolve the nitrate and carbonate in separate portions of the water, mix the solutions, collect and wash the precipitate on a filter, rub it whilst still moist in a porcelain mortar with the tartaric acid, till effervescence has ceased, add the ammonia to dissolve the tartrate of silver, then mix the archil, sugar, and gum, adding as much water as will make six fl. ounces.

Redwood.

### Ointment of Nitrate of Silver.

R. Nitrate of silver, two grains.

Lard, two drachms.

Mix well. As an application in acute ophthalmia.

Velpeau.

R. Nitrate of silver, four parts. Lard, thirty parts. Or, eight parts of the salt to the same proportion of lard, or twelve parts to thirty. Used as an application to white-swelling.

Jobert.

R. Nitrate of silver, one part. Lard, seven and a half parts. Mix, to smear bougies, in cure of gonor-Macdonald.

### Compound Ointment of Nitrate of Silver.

R. Nitrate of silver, ten to twenty grains. Oxide of zinc ointment, half an ounce. Balsam of Peru, one drachm. Triturate thoroughly together. To heal venereal ulcers, and to promote cicatriza-

R. Nitrate of silver, three grains. Solution of subacetate of lead, five drops. Lard, one drachm.

Mix well. In chronic ophthalmia.

Guthrie.

Fricke.

## ARGENTI OXIDUM.

#### OXIDE OF SILVER.

R. Nitrate of silver, four troyounces. Water, half a pint. Solution of potassa, one pint and a half.

Dissolve the nitrate in the water, and add the potassa as long as precipitation occurs. Wash and dry the precipitate, and keep it in opaque, well-stopped bottles. U. S. Ph.

Brit. Ph. prepares this with lime-water instead of potassa.

Used as a substitute for the nitrate, in doses of about half a grain twice a day, in diseases of the stomach, of undue secretion,

### Pills of Oxide of Silver.

R. Oxide of silver, six grains. Powdered liquorice, twelve grains. Make twelve pills. Dose, one pill three Macerate for ten days, express, and filter. times daily, in pyrosis.

### Ointment of Oxide of Silver.

R. Oxide of silver, twenty grains. Lard, one ounce. Rub well together. Serre. Used as an application to irritable ulcers,

## ARMORACIA.

## HORSERADISH.

This is a species of Cochlearia, the C. armoracia. A native of many parts of Europe, and much cultivated both there and in this country, for the sake of its roots, so well known as a condiment. The root is the part used in medicine. It has a pungent odor, and a warm, acrid taste.

Sex. Syst. Tetrad. silic. Nat. Syst. Brassi-

caceæ.

Linn. Sp. Pl. 904. Griffith, Med. Bot. 131. As a remedial agent, it is an active stimulant, and when applied to the skin acts as a rubefacient.

### Infusion of Horseradish.

R. Fresh horseradish, sliced, Mustard seed, bruised, each, one ounce. Boiling water, one pint. Macerate for two hours in a covered vessel, U. S. Ph., 1850. It is sometimes used in paralytic, scor-

butic, and dropsical affections, attended with debility. The dose is two fl. ounces, three or four times a day.

## Compound Syrup of Horseradish.

R. Scraped horseradish, Bitter orange-peel, cut and twenty ounces. bruised, each, Bruised nutmeg, half an ounce. one gallon (imp.). Proof spirit, two pints. Water,

Mix, and distil a gallon by a gentle heat. Brit. Ph.

Employed as a diuretic, in dropsy with debility. Dose, one to four fl. drachms.

### Compound Tincture of Horseradish.

R. Bruised horseradish, twenty parts. ten parts. Black mustard, Chloride of ammonium, five parts. Alcohol, 60 per ct. Compound spirit of scurvy grass, each, forty parts.

Paris Codex.

## Compound Wine of Horseradish.

R. Fresh horseradish, one ounce.

water cress, each, scurvy grass, half an 66 bogbean leaves, ounce.

White mustard, Chloride of ammonium, two drachms.

White wine, thirty-three ounces. Spirit of scurvy grass, half an

Macerate for ten days, express, and filter. Paris Codex.

More frequently used in France than the former. Dose, an ounce or more, in scrofulous and scorbutic affections.

### Mixture of Horseradish.

R. Infusion of horseradish, four fl. ounces. Syrup of cinchona, one fl. ounce. Extract of fumitory, one drachm. In spoonful doses, as an antiscorbutic.

## Compound Horseradish Cataplasm.

R. Bruised horseradish, six drachms. mustard seed, one ounce. Flaxseed meal, two ounces and a half. Vinegar, sufficient. Mix, and make cataplasm, to be applied to the feet as revulsive in diseases of the head. Ainslie.

## Compound Infusion of Horseradish.

R. Horseradish, one ounce. Boiling water, one pint. Infuse for an hour in a close vessel; on cooling, add

Simple syrup, one ounce and a half. - A wineglassful several times a day, in dropsy, especially when arising from a granular affection of the kidneys.

## ARNICA.

### WOLFSBANE.

Several species of this genus are medicinal, but one only is officinal, A. montana, a native of Europe; but it is likely that the A. nudicaulis of this country is possessed of the same powers.

Sex. Syst. Syngen. super. Nat. Syst. Aste-

Linn. Sp. Pl. 1245. Griffith, Med. Bot. 407.

Arnica is a stimulant, acting with much energy on the cerebro-spinal system, and is also an active irritant of the stomach and bowels. In Germany, where it is much employed, it is given to fulfil a variety of indications.

## Compound Powder of Arnica.

R. Powdered arnica root, ) serpentaria, sugar, each, drachms. 66

Oil of peppermint, ten drops. Mix, and divide into sixteen powders.

Augustin.

Dose, a powder, every two hours, in the diarrhœa complicating typhoid fevers.

### Extract of Arnica.

R. Flowers of arnica, one part. Alcohol of 60

per cent., six parts. Exhaust by percolation, distil off the alcohol, and evaporate the residue to a proper consistence. Paris Codex.

The process of U. S. Ph. is nearly identi-

cal with this.

Dose, ten grains to a scruple, in chronic rheumatism and paralysis.

### Infusion of Arnica.

R. Flowers of arnica, one ounce. Boiling water, one pint. Infuse for half an hour, and strain.

Used in the same cases as the last. Dose, half an ounce to an ounce. Cottereau.

## Compound Infusion of Arnica.

R. Flowers of arnica, one drachm. chamomile, half an

two drachms. Peppermint, Boiling water, nine fl. ounces. Mix, macerate, and strain. Copenh. Ph. Dose, one ounce.

### Fomentation of Arnica.

R. Flowers of arnica, half an ounce. Boiling vinegar, sufficient to obtain six ounces; add

Carbonate of ammonium, two drachms.

Radius.

Used as a warm fomentation in cedema of the scrotum.

### Arnica Plaster.

R. Extract of arnica, three troyounces. Resin plaster, six troyounces. Melt the plaster, add the extract, and mix.

U. S. I

### Decoction of Arnica.

R. Flowers of arnica, one ounce. Water, three pints.

Boil till reduced to two pints, strain, and add

Syrup of ginger, two ounces.

Swediaur.

Dose, one to two ounces, every two hours, in aphonia, paralysis, rheumatism, etc.

### Fomentation of Arnica and Rue.

R. Flowers of arnica, two ounces.
Rue, one ounce.
Boiling water, sufficient
to obtain twelve ounces when strained,
after one hour of maceration. Radius.
Used as a fomentation in contusions.

### Tincture of Arnica.

B. Arnica flowers,
bruised, six troyounces.
Alcohol, a pint and a half.
Water, half a pint.
Displace with the mixed liquids, finally using diluted alcohol until two pints are obtained.

U. S. Ph.

This is very nearly the strength directed by *Paris Codex*; the tincture of *Ph. Germ.* is one-half this strength.

Dose, thirty drops, several times a day.

R. Arnica root, one ounce.
Rectified spirit, sufficient.
Obtain by maceration and displacement twenty fl. ounces. Dose, one to two fl. drachms.

Brit. Ph.

These tinctures are much employed externally in contusions, rheumatic pains, etc.

## ARSENICUM.

### ARSENIC.

Metallic arsenic is not employed in medicine; but several of its combinations are of much importance.

## ARSENICI CHLORIDUM.

SOLUTION OF CHLORIDE OF ARSENIC.

R. Arsenious acid in

powder, eighty grains.
Muriatic acid, two fl. drachms.
Water, sufficient.

Boil the arsenic in the muriatic acid, diluted with four ounces of water, until dissolved; then add sufficient water to make twenty fl. ounces.

U. S. Ph. and Brit. Ph.

ounces. U. S. Ph. and Brit. Ph.
This is much used in Great Britain in lepra and cholera, in doses of two to eight minims, thrice daily.

Each fl. ounce represents four grains of

arsenious acid.

## ARSENICI IODIDUM.

IODIDE OF ARSENIC.

R. Finely-powdered metallic

arsenic, one drachm. Iodine, five drachms.

Triturate together, and introduce into a small flask or test-tube loosely stopped; place this on a sand-bath, and apply gentle heat till liquefaction is produced. The vessel should be nearly full, to prevent the formation of much iodine vapor, and to enable the operator to bring the fixed mass in contact with every part of it, so as to include any iodine that may have been sublimed. If no iodine odor is perceptible, and the contents assume a reddish-yellow color, and crystallize on the sides of the vessel, the operation is complete. W. Procter.

This corresponds with the officinal form-

Dose, one-tenth of a grain, gradually increased to a quarter, three times a day. Given in cancer, and obstinate cutaneous affections.

### Iodide of Arsenic Pills.

R. Iodide of arsenic, one grain.
Extract of conium, twenty grains.
Mix, and make ten pills. Thomson.
Used in lepra, and obstinate eruptions.

### Iodide of Arsenic Ointment.

R. Iodide of arsenic, three grains. Lard, one ounce.

Triturate well. Biett.

Employed in cases of lepra, and other cutaneous affections; but requires much caution.

## LIQUOR ARSENICI ET HY-DRARGYRI IODIDI.

Solution of Iodide of Arsenic and Mercury.

### Donovan's Solution.

R. Iodide of arsenic,

Red iodide of mercury,

each, thirty-five grains. Distilled water, half a pint.

Rub the iodides with half a fl. ounce of water, and, when they are dissolved, add rest of water, and filter.

U. S. Ph.

Each fl. drachm contains one-eighth of a grain of arsenic, and one-fourth of a grain of deutoxide of mercury. This preparation is said to be useful in obstinate cutaneous diseases, as lepra, lupus, etc. The dose is from five minims to half a fl. drachm two or three times a day.

## Draught of Solution of Iodide of Mercury and Arsenic.

R. Solution iodide of mercury and arsenic, two fl. drachms. Distilled water, three fl. ounces and a half.

Syrup of ginger, half fl. ounce.

Mix, and divide into four draughts. One
to be taken night and morning. Not to be
given in a metallic spoon.

Donovan.

## ARSENICI TERSULPHU-RETUM.

ORPIMENT.

## Depilatory of Orpiment.

R. Orpiment, one ounce.
Quicklime, one pound.
Starch, ten ounces.
Water, sufficient

This is spread on the part where it is desired to remove the hair, and washed off when it begins to dry. It is the rusma of the Turks.

# Delcroix's Depilatory. (Poudre Subtile.)

R. Orpiment, four parts.

Quicklime thirty parts.

Powdered gum, sixty parts.

Used like the preceding to remove superfluous hair.

## Powder of Orpiment.

R. Orpiment, one ounce.
Quicklime, twelve ounces.
Jasmine powder, ten ounces.
Powder of palm soap, four ounces.

Mix well. Morfit.

This, when applied as a depilatory, is

mixed with a little water.

Both these, although efficient for the purposes designed, are dangerous, and should never be used, except with extreme caution.

## Lotion of Orpiment.

R. Orpiment, two drachms.

Verdigris, Aloes, Each, half a drachm.

Myrrh, Rose water, three fl. ounces.

White wine, six fl. ounces.

Wan Mons.

Used as an application to fungous ulcers.

### ARTEMISIA.

A genus of bitter herbs, several of which are used as medicinal agents to fulfil various indications; some as tonics (A. absinthium), some as moxas (A. moxa), and some as anthelmintics. (See also Absinthium and Santonica.)

Sex. Syst. Syn. pol. super. Nat. Syst. Aste-

raceæ.

## 1. A. ABROTANUM.

### SOUTHERNWOOD.

A native of the south of Europe and the Levant, and generally cultivated in gardens. Its odor is aromatic and peculiar, and its taste bitter. It is used as a tonic, antispasmodic, and vermifuge.

Linn. Sp. Pl. 1185. Griffith, Med. Bot.

406.

### Infusion of Southernwood.

B. Southernwood, six drachms.
Boiling water, one pint.
Digest for two hours, and strain. Given in hysteria and in dysmenorrhæa. Dose, one fl. ounce.

Taddei.

### Clyster of Southernwood.

R. Southernwood, half an ounce.
Boiling water, one pint.
Digest for half an hour, and, to six or eight fl. ounces of strained infusion, add

Olive oil, one ounce. Said to be effectual in cases of worms, and especially ascarides.

## 2. A. VULGARIS. MUGWORT.

It is a native of Europe and naturalized in a few localities in this country. The herb has a peculiar odor and a bitterish taste. The root is considered the most active part, when collected late in autumn, and is given in epilepsy and similar diseases, in doses of twenty to sixty grains, in the form of powder, infusion, or alcoholic extract.

## ARUM.

### INDIAN TURNIP.

Several species of Arum are used in medicine, but the only one officinal in the U.S. Ph. is A. triphyllum; a native plant, with large perennial cormus; this is white, fleshy, and extremely acrid in a fresh state, but becomes edible and bland when dried, and kept for any time; and the fecula obtained from it resembles arrowroot in appearance.

Sext. Syst. Mon. polyand. Nat. Syst. Ara-

ceæ.

Bigelow, Am. Med. Bot. 1, 52. Griffith,

Med. Bot. 616.

The powder of the recently-dried root may be given in doses of ten grains, in an emulsion of gum Arabic, sugar, and water, several times a day. It has been found useful in chronic catarrh, chronic bron-chitis, rheumatism, etc.

### ASARUM.

Two species of this genus are recognized, one by the U. S. Ph., the other by the Paris Codex and Ph. Germ.

Sext. Syst. Dodecand. monog. Nat. Syst.

Aristolochiaceæ.

## 1. ASARUM EUROPÆUM.

### ASARABACCA.

A native of Europe, of which the leaves and rhizome are used. The first have a feeble aromatic odor when rubbed, and a somewhat spicy taste; the latter has a strong, penetrating odor, and an acrid, bit-ter, and nauseous taste; this is sometimes used abroad as a stimulant, emetic, and anthelmintic; the leaves, as the basis of various errhine powders. Linn. Sp. Pl. 633. Griffith, Med. Bot. 527.

## Compound Powder of Asarabacca.

R. Dried leaves of

asarabacca, one ounce. Lavender flowers, one drachm.

Rub together to a fine powder.

Dublin Ph. 1826.

R. Powdered asarabacca, ) each,

wood betony, equal marjoram, parts.

Paris Codex.

Has been found useful as an errhine, in some cases of headache, toothache, etc. Five or six grains to be snuffed up the nostrils at night.

## 2. ASARUM CANADENSE.

WILD GINGER.

Bigelow, Med. Bot. 1, 150. Barton, Veg.

Mat. Med. p. 85.

This species is common to most parts of the United States. The leaves are said by Drs. Barton and Bigelow not to be emetic, but other authorities state that a teaspoonful of this powder never fails to act on the stomach. Like those of the asarabacca, they are eminently errhine. The rhizome is an aromatic stimulant, with active diaphoretic properties, and may be used as a substitute for serpentaria.

## Infusion of Wild Ginger.

R. Root of wild ginger, half an ounce Boiling water, one pint.

Digest for an hour in a covered vessel, and strain. In all cases where Virginia snakeroot is indicated. Dose, one to two fl. ounces.

### ASCLEPIAS.

Sex. Syst. Pentand. digyn. Nat. Syst. Ascle-

Many species of this large genus are em-ployed in medicine, and it is probable that the whole of them are endowed with active properties.

## 1. A. TUBEROSA.

### PLEURISY ROOT.

A native of most parts of the United States. The root is large and irregularly tuberous; the taste of it is bitter, nauseous, and somewhat acrid. It is an active diaphoretic, and, in large doses, purgative. It has attained much popular reputation in the treatment of diseases of the respiratory organs, and more especially of pleurisy. The dose of the powder is from a scruple to a drachm, several times a day. An infusion or decoction is preferable to the powder.

## Infusion of Pleurisy Root.

R. Bruised pleurisy root, one ounce.

Boiling water, two pints.

Digest for two hours. Dose, three or four fl. ounces, warm, to be given every two or three hours, until it operates. Chapman.

## 2. A. INCARNATA.

### SWAMP SILK WEED.

A native of many parts of the United States, usually growing in wet places. The root is the officinal portion. It is emetic and cathartic in full doses of half a drachm to a drachm, and expectorant and alterative in small ones.

## 3. A. SYRIACA.

### SILK WEED.

This plant, the A. cornuti of modern botanists, is very common in the U.S. The root appears to have much the same properties as the last, and also some anodyne powers.

## ASPARAGUS.

### ASPARAGUS.

Several species of Asparagus have been used in medicine, but the only one that is now employed is the A. officinalis. This is a native of Europe, and is generally cultivated there and in this country.

Sex. Syst. Hexand. monog. Nat. Syst.

Liliaceæ.

Linn. Sp. Pl. 448. Stokes, Bot. Mat. Med.,

ii. 252. Griffith, Med. Bot. 654.

The parts used are the roots and young shoots (turiones). These are diuretic, aperient, and deobstruent, and have been thought to exercise a sedative influence on the heart. Dr. Wood states (U. S. Dis.) that the berries are more efficient than the shoots.

### Extract of Asparagus Shoots.

R. Clarified juice of

asparagus, sufficient.

Evaporate by a mild heat to a proper consistence. Soubeiran.

## Extract of Asparagus Roots.

R. Roots of asparagus, sufficient.

Bruise them, add sufficient water to cover them, express, strain, and evaporate by a mild heat.

Paris Codex.

These extracts are given in doses of a scruple to a drachm, as diuretics.

### Syrup of Asparagus Shoots.

R. Juice of asparagus

shoots, one pint.
White sugar, two pounds.
Dissolve by means of a water-bath, and strain.

Cottereau.

Advised in pulmonary catarrh, and too great action of the heart, in doses of one to four ounces during the day.

## Decoction of Asparagus Roots.

R. Asparagus roots, one ounce.
Water, two pints.
Boil and strain. Radius.
To be taken by cupfuls in dropsies.

### Diuretic Mixture.

R. Asparagus roots, one ounce. Water, one pint.

Boil for an hour, strain, and add

Acetate of potassium, twenty grains.

Honey of squills, half an ounce.

Used as the last, and in the same diseases.

## ASSAFETIDA.

### ASSAFETIDA.

A gum resin or inspissated juice from an umbelliferous plant, a native of Persia, usually thought to be Ferula assafætida, but now shown by Dr. Falconer to be a Narthex, which, though similar to Ferula, is distinct from it. (Royle, Mat. Med. 407.)

from it. (Royle, Mat. Med. 407.) Sex. Syst. Pentand. digyn. Nat. Syst.

Apiaceæ.

Royle, Mat. Med. 407. Griffith, Med. Bot. 326.

Assafetida, as found in the shops, is in masses of a whitish, reddish, or violet hue, composed of adhering tears. Odor, fetid and alliaceous; taste, bitter and somewhat acrid; it forms an emulsion with water.

Is stimulant and antispasmodic, and also emmenagogue and anthelmintic. It is used in spasmodic and convulsive diseases, as hysteria, chorea, hooping-cough, flatulent colic, etc.

Dose, ten grains.

### Purified Assafetida.

R. Assafetida in small

pieces, three parts.
Water, two parts.

Digest in a tared capsule until the gumresin is completely divided, add sufficient stronger alcohol to form with the water of the emulsion a menstruum of sixty per cent. alcoholic strength; boil for a minute, strain with expression through moderately coarse muslin, and evaporate by means of a water-bath to the proper consistence.

Paris Codex.

Mr. J. B. Moore has proposed to purify assafetida by triturating it into a paste, adding gradually sufficient alcohol, straining from the coarse particles, and evaporating spontaneously.

### Assafetida Pills.

R. Assafetida, seventy-two grains. Soap, twenty-four grains. Beat with water into a mass, and divide into twenty-four pills; each of which contains three grains of the gum-resin.

U. S. Ph.

R. Assafetida, one drachm and a half. Powdered orris root, Mucilage of gum Arabic,

each, sufficient.

Beat together, and divide into thirty pills.

One to be given occasionally in the hoopingcough of children.

Kapp.

R. Assafetida, a drachm and a half.
Powdered ginger, half a drachm.
Syrup, sufficient.

Mix, and make thirty pills. Three to be taken every three hours. Have been advised in palsy.

A. T. Tomson.

### Pills of Assafetida and Lactucarium.

R. Assafetida, three drachms. Lactucarium, two scruples and a half.

Mix, and divide into eighty pills. Two or three every hour in hooping-cough of adults. Radius.

### Pills of Assafetida and Iron.

R. Assafetida,
Sulphate of iron,
Extract of chamomile,
an ounce.

Mix well, and divide into one hundred and eighty pills. Two or more, three or four times a day, in hypochondria and hysteria. Sufret.

R. Black oxide of iron, half a drachm
Assafetida, a drachm and a half.
Oil of tansy, ten drops.
Extract of wormwood, sufficient.
Mix, and divide into ninety pills. Six to be taken three times a day. Said to be useful against lumbrici and ascarides.

Phæbus.

### Pills of Assafetida and Musk.

R. Assafetida, two drachms.

Musk,
Camphor, each, one drachm.

Ambergris, half a drachm.

Beat well together, and divide into one hundred pills. Two to be taken three times a day. Said to have proved useful in angina pectoris, hysteria, etc.

St. Marie.

Bories.

## Pills of Assafetida and Opium.

R. Assafetida, half an ounce. Powdered opium,

" ipecacuanha,

each,
Oil of peppermint,
Alcohol,
four grains.
eight drops.
sufficient.

Beat well together, and divide into one hundred and twenty pills. Ten to be taken three times a day in chronic ischuria, consecutive on gonorrhea Radius.

## Assafetida Mixture.

R. Assafetida, two drachms.
Water, half a pint.
Rub together, adding the water by degrees,
till well mixed.

U. S. Ph.

R. Assafetida, one drachm.
Sugar, six drachms.
Rose water, five fl. ounces.
Make an emulsion, and add

Hoffmann's anodyne, thirty drops. Taken in spoonful doses, in spasmodic

asthma and hysteria.

# Enema of Assafetida.

R. Assafetida, thirty grains.
Distilled water, four fl. ounces.

Make an emulsion and strain. Brit. Ph.
Used in flatulent colic and against ascarides.

## Assafetida Mixture.

R. Assafetida, half a drachm.
Solution of acetate of
ammonium, half a fl. ounce.
Pennyroyal water, three fl. ounces.
Mix. One to two spoonfuls in hoopingcough.

Miller.

R. Assafetida mixture, five and a half fl. ounces.

Compound spt. of lavender, half fl. ounce.

Aromatic spt. of ammonia, two fl. drachms.

Mix. Three spoonfuls a day in hysteria.

Ainslie.

R. Assafetida mixture, two fl. ounces.
Opium, two grains.
Infusion of chamomile, four fl.
ounces.

Mix. As an injection in convulsive attacks.

R. Assafetida, half a drachm. Yolk of egg, one.

Rub together, and gradually add

Water, eight fl. ounces.

Strain. To form two injections. Said to be useful in the hooping-cough of children.

Soubeiran.

## Compound Assafetida Mixture.

R. Assafetida, one drachm. Peppermint water, three fl. ounces.

Make a solution, and add

Ammoniated tincture
of valerian, two fl. drachms.
Tincture of castor, three fl.
drachms.

Sulphuric ether, one fl. drachm.

Mix. Useful in hysteria, in doses of a tablespoonful, largely diluted, every second hour.

Ellis.

# Mixture of Assafetida and Oxymel of Squill.

R. Assafetida, one scruple.
Powdered digitalis, six grains.
Oxymel of squill, two fl. ounces.
Linden-flower water, four fl.

Rub well together. Said to be found useful in the dry cough consequent on deranged menstruation.

Pierquin.

Dose, a tablespoonful.

### Mixture of Assafetida and Tolu.

R. Assafetida, one drachm. Water, four fl. ounces.

Make an emulsion, and add

Tineture of tolu, half a fl. ounce.

"opium, forty to fifty drops.

"ix well. A teaspoonful every two hours.

Mix well. A teaspoonful every two hours, in hooping-cough, and a dessertspoonful or more to an adult.

Ellis.

## Syrup of Assafetida.

R. Assafetida, one ounce.

Boiling water, one pint.

Sugar, two pounds.

Rub the assafetida with a part of the boiling water till a uniform paste is made.

Then gradually add the rest of the water, strain, and add the sugar, applying a gentle heat to dissolve it.

Dose, a tablespoonful, which contains seven grains and a half. Richard Peltz.

### Tincture of Assafetida.

R. Assafetida, four troyounces. two pints.

Macerate for fourteen days, and filter.

U. S. Ph.

The tincture of Brit. Ph. is nearly identical; Paris Codex and Ph. Germ. direct one part of assafetida to five parts of alcohol. Dose, a teaspoonful.

## Compound Water of Assafetida. (Fetid Anti-hysteric Water.)

R. Assafetida, twelve parts. Galbanum, eight parts. six parts. Myrrh, Valerian, sixteen parts. Zedoary, sixteen parts. Angelica, four parts. Peppermint, twelve parts. eight parts. Wild thyme, Roman chamomile, eight parts. Castor, one part.

Cut and bruise and macerate for twentyfour hours, with

Alcohol, sp. gr. 0.892,

one hundred and fifty parts.

Then add

Water, three hundred parts.

Distil three hundred parts. Ph. Germ.

Dose, a tablespoonful in hysteria.

### Ethereal Tincture of Assafetida.

R. Assafetida, one part.
Spirit of ether, five parts.

Macerate for ten days and filter, keeping the funnel covered. Paris Codex.
Has all the properties of the gum resin, but is more stimulating. Dose, a fl. drachm.

#### Alkaline Tincture of Assafetida.

R. Assafetida,

Carbonate of potassium, each, two ounces.
Diluted alcohol, one pint.

Ellis. Macerate for three days, by a mild heat,

and filter. Anti-hysteric, etc. Useful in nervous disorders. Dose, about twenty drops. Wirtemberg Disp.

## Ammoniated Spirit of Assafetida.

R. Ammoniated

alcohol, sixteen ounces.
Assafetida, one ounce.

Macerate for twenty-four hours, in a closed vessel, and then distil sixteen ounces.

Stimulant and anti-hysteric. Van Mons. to sixty drops.

### Tincture of Assafetida and Castor.

R. Tincture of assafetida,

" castor, each, one fl. ounce.

Aromatic spirit of

ammonia, one fl. drachm.

Mix. In hysteria, etc. Dose, about a teaspoonful.

Ellis.

### Tincture of Assafetida and Soot.

R. Assafetida, one drachm.
Wood soot, two drachms.
Alcohol, three fl. ounces.

Digest for six days, and filter. Guibourt. Highly praised in hysteria, flatulence, and convulsions caused by dentition. Dose, ten to thirty drops in an appropriate vehicle.

### Assafetida Plaster.

R. Assafetide

Lead plaster, each, twelve troyounces.

Galbanum,

Yellow wax, each, six troyounces. Alcohol, three pints.

Dissolve the assafetida and galbanum in the alcohol, by means of a water-bath; strain while hot, and evaporate to consistence of honey, add lead plaster and wax melted together; stir well, and evaporate to due consistence.

U. S. Ph.

R. Yellow wax,

Burgundy pitch, each, two parts. Melt, strain, and when nearly cool, add

Powdered assafetida, three parts. ammoniac, one part,

previously dissolved in

Common turpentine, two parts.

Mix well. Ph. Germ.

A good application to the stomach in hysteria with flatulence, and to the chest in hooping-cough.

### Dewees's Carminative.

R. Carbonate of mag-

nesium, half a drachm.
Tincture of assafetida, sixty drops.
" opium, twenty drops.
Sugar, one drachm.

Distilled water, one fl. ounce.

Mix well.

Very useful in the flatulent colic, diarrhœa, etc., of infants. Dose, twenty-five drops to a child of two to four weeks old, increasing the dose for those of a more advanced age.

## Suppositories of Assafetida.

R. Tincture of assafetida, one fl. ounce.

Oil of theobroma, 320 grains. Evaporate the tincture in a moderately warm place spontaneously until reduced to a syrupy consistence, mix this with a drachm of the oil, and afterwards with the remaining oil, previously melted and cooled again to 95°. Make twelve suppositories.

U.S. Ph

## ATROPIA.

### ATROPIA.

R. Powdered belladonna root,

Alcohol,

forty-eight troyounces. Chloroform, four troyounces

and a half. sufficient.

Exhaust the powder by percolation with alcohol, distil to four pints, acidulate with sulphuric acid, evaporate to half a pint, add an equal bulk of water, and filter. Agitate with one-third of the chloroform and a slight excess of solution of potassa; separate the heavier solution and treat the watery liquid in same manner with the remainder of the chloroform in two portions, lastly evaporate the mixed chloroformic

solutions spontaneously. U. S. Ph.

The process of Brit. Ph. is similar, but
the atropia is purified yet by animal char-

coal.

## Sulphate of Atropia.

R. Atropia, sixty grains.
Strong ether, four and a half
fl. ounces.

Sulphuric acid, six grains. Stronger alcohol, one fl. drachm.

Dissolve atropia in ether; mix acid and alcohol, and drop into first solution until neutralized. When the sulphate has been deposited, decant and dry. U.S. Ph.

R. Atropia, two drachms.

Distilled water, four fl. drachms.

Diluted sulphuric acid, sufficient.

Mix atropia and water, neutralize with the acid, and evaporate to dryness by a heat not exceeding 100°.

Brit. Ph.

## Solution of Atropia.

R. Atropia, four grains.
Alcohol, one fl. drachm.
Distilled water, seven fl. drachms.
Dissolve the atropia in the alcohol and add this gradually to the water.
Employed like the next.

## Solution of Sulphate of Atropia.

R. Sulphate of atropia, four grains.

Distilled water, one fl. ounce.

Dissolve.

Brit. Ph.

For hypodermic injection, and as an application to the eyes for dilating the pupil. One or two drops will generally dilate the pupil, if dropped between the lids. Two minims contain  $\frac{1}{60}$ , three minims,  $\frac{1}{40}$  grain of sulphate of atropia.

## Syrup of Atropia.

R. Atropia, one part.
Syrup, ten thousand parts.
Dissolve the atropia in one hundred parts of water acidulated with one part of muriatic acid, then mix with the syrup.

Bouchardat.

## Tincture of Atropia.

R. Atropia, fifteen grains.
Alcohol (85 per cent.), ten
fl. drachms.

Mix. Dose, one to three drops.

Bouchardat.

### Ointment of Atropia.

R. Atropia, eight grains.
Rectified spirit, half a fl. drachm.
Prepared lard, one ounce.
Dissolve the atropia in the spirit, and mix thoroughly with the lard.

Brit. Ph.

## AURANTIUM.

### ORANGE.

Citrus vulgaris, the bitter, and C. aurantium, the sweet orange, are natives of Asia, but now cultivated in all warm climates; the two species are considered merely as varieties by some botanists.

Sex. Syst. Polydelph. icosand. Nat. Syst. Aurantiaceæ.

Lind. Fl. Med. 163. Griffith, Med. Bot.

Almost every part is employed in medicine, but only the rind of the fruit and the flowers are officinal in the *U. S. Ph.* 

## AURANTII CORTEX.

ORANGE-PEEL.

## Powdet of Orange-Peel and Rhubarb.

R. Powdered orange-peel, "rhubarb, Bitartrate of potassium,

each, one ounce.

Mix well. Dose, one or two teaspoonfuls a day. In dyspepsia, with a costive condition of the bowels. Radius.

## Confection of Orange-Peel.

R. Fresh sweet orange-peel,
grated, one pound.
White sugar, three pounds.
Beat together, till thoroughly mixed.
U. S. Ph.

As a vehicle or adjunct to powders.

## Electuary of Orange-Peel.

R. Orange-peel, half an ounce.
Willow bark, two drachms.
Syrup of orange-peel, sufficient.

Make an electuary. To be taken in divided doses, during the apyrexia of intermittent fever.

Phæbus.

### Orange Wine.

This is a wine made in Britain by the fermentation of a saccharine solution, to which the fresh peel of the bitter orange has been added.

Brit. Ph.

### Tincture of Orange-Peel.

R. Bitter orange-peel, in
powder, No. 50, four troyounces,
Diluted alcohol, sufficient.

Obtain by displacement two pints.

The tincture of Brit. Ph. is nearly onefourth weaker; Paris Codex and Ph. Germ. direct one part of the peel to five parts of 60 per cent. alcohol.

Used principally as an addition to in-

fusions, decoctions, etc.

Spirit of Orange-Peel.

R. Fresh orange-peel, five parts.
Alcohol (80 per cent),

thirty parts.

Macerate for two days, add some water, and distil thirty parts. Paris Codex. Used for the same purposes as the last.

## Elixir of Orange-Peel.

R. Orange-peel, one ounce.
Cascarilla, half an ounce.
Water of citron-peel,
wormwood,

Alcohol, each, half a pint.

Digest for four days, and filter. Moscati.

Dose, from four to six fl. drachms, as a carminative and stomachic.

## Infusion of Orange-Peel.

R. Bitter orange-peel, cut, half an ounce. Boiling distilled water,

ten ounces.

Macerate for fifteen minutes, and strain.

Brit. Ph.

## Compound Infusion of Orange-Peel.

R. Bitter orange-peel,
cut,
half an ounce.
Fresh lemon-peel
cut,
two drachms.
Bruised cloves,
Boiling distilled
water
twenty ounces

water, twenty ounces.

Macerate for a quarter of an hour, and strain.

Brit. Ph.

This preparation is used as a stomachic, in the dose of one or two fl. ounces.

# Compound Tincture of Orange Berries. (Bitter Tincture.)

R. Orange berries,
Centaury,
Gentian,
Zedoary,
Alcohol (0.892), thirty-five parts.
Digest for eight days, express, and filter.
Dose, one to four fl. drachms. Ph. Germ.

### Extract of Orange-Peel.

R. Bitter orange-peel, one part. Exhaust by digesting for three days, first with four parts, afterwards with two parts of diluted alcohol; mix the expressed

liquids, filter, and evaporate to the proper consistence. Ph. Germ.

Dose, ten to twenty grains.

## Syrup of Orange-Peel.

R. Sweet orange-peel, recently dried, and in fine powder,

two troyounces.

Obtain by slow percolation with alcohol six fl. ounces of tincture, evaporate it at a temperature not over 120°, to two fl. ounces, add

Carbonate of mag-

nesium, half a troyounce.
Sugar, one troyounce.
Rub them together, add gradually half a pint of water, filter, and having added enough water to make the filtrate, measure

pint of water, filter, and having added enough water to make the filtrate measure a pint, dissolve in it, with the aid of a gentle heat,

Sugar, twenty-seven troyounces. Strain. U. S. Ph.

R. Bitter orange-peel,

cut, two parts.
Good white wine, fourteen parts.
Macerate for two days, express, filter, and
to eleven parts of the filtrate add

White sugar, eighteen parts.

Dissolve. Ph. Germ.

The syrup of *Brit*. *Ph*. is a mixture of one fl. ounce of the tincture with seven fl. ounces of simple syrup. *Paris Codex* directs as menstruum, water mixed with one-tenth of 60 per cent. alcohol.

### Simple Elixir.

R. Fresh orange-peel, two drachms.
Star anise,
Cardamom,
Simple syrup,
Caramel,
two drachms.
half a drachm.
one scruple.
six fl. ounces.
ten grains.

Reduce orange-peel to a pulp, add aromatics in fine powder, displace with diluted alcohol to obtain six fl. ounces, add remaining ingredients, and then enough water to make one pint. An agreeable vehicle.

O. Eberbach.

## AURANTII FOLIA.

ORANGE LEAVES.

## Electuary of Orange Leaves.

R. Orange leaves, Valerian, each, half a drachm. Syrup of orange-peel, sufficient. Make an electuary. Radius.

A teaspoonful occasionally as an antispasmodic.

## Jelly of Orange Leaves.

R. Orange leaves, an ounce and a half.
Boiling water, two pints.
Digest for twenty-four hours, strain, and
add

Powdered salep, two drachms. Boil to a jelly, and add

Wine,
Syrup of orange flowers,
each, one fl. ounce.
In teaspoonful doses, in marasmus.

Radius.

## AURANTII FLORES.

ORANGE FLOWERS.

## Confection of Orange Flowers.

R. Orange flowers, one part. Syrup, three parts. Evaporate to proper consistence. Taddei.

## Pastilles of Orange Flowers.

R. Sugar,

Orange-flower water,

each, two ounces.

Dissolve and evaporate to consistence of honey; add a mixture of

Sugar, four ounces. Oil of orange flowers,

half a drachm.

Make pastilles.

Cottereau.

## Orange-Flower Water.

R. Frosh orange flowers, ten parts. Sufficient.

By means of steam, distil off twenty parts, and separate the oil.

Paris Codex.

R. Fresh orange

flowers, forty-eight troyounces.

Water, sixteen pints.

Mix, and by means of steam, distil eight pints.

U. S. Ph.

The oil which floats upon the distillate is the oil of neroli or oil of orange flowers.

## Syrup of Orange Flowers.

R. Orange-flower
water, twenty fl. ounces.
Sugar, thirty-six troyounces.

Radius. Dissolve in a close vessel, with the aid of a an anti- gentle heat. U. S. Ph.

## AURANTII FRUCTUS.

ORANGE BERRIES.

Both the unripe and ripe fruit are used.

## Syrup of Oranges.

R. Clarified orange juice, four parts.
Sugar, seven parts.
Dissolve. Paris Codex.

## Compound Orange Elixir.

R. Orange berries, bruised, six parts.
Cinnamon, bruised, two parts.
Carbonate of potassium, one part.
Sherry wine, fifty parts.
Macerate for eight days, express, filter, and

Extract of gentian,
wormwood,
bogbean,
cascarilla,
each,
one
part.

Dissolve, let settle, and filter. Ph. Germ.
This is the Elixir viscerale Hoffmanni,
much used in Europe in dyspepsia in doses
of twenty to sixty minims.

### AURUM.

### GOLD.

Gold is used as a remedial agent in its pure state, but only in an infinitely divided form, in which it is stated that it acts on the system, and to be equally efficacious as its salts, but its action is much milder. It has been prescribed in various forms of syphilitic diseases, in doses of a quarter of a grain to a grain, three or four times a day.

### Powder of Gold.

R. Gold leaf, one part. Sulphate of

potassium, eight to ten parts. Triturate thoroughly, wash out the sulphate of potassium, and sift through fine gauze.

Paris Codex.

To be applied in friction on the gums and tongue.

R. Dilute solution of nitromuriate of gold, at will.
Solution sulphate of
iron, sufficient
to precipitate; collect this, and dry.

Tromsdorff.

R. Pulverized gold, six grains. Starch, sixty-six grains. Mix, and divide into twelve powders. One to be given four times a day. Riecke.

R. Pulverized gold,

Lycopodium, each, two grains.

Mix. To be rubbed, during the day, on the tongue.

Riecke.

Syrup of Gold.

R. Pulverized gold, twenty-four grains.

Syrup, one ounce.

Mix. As an application to chances on the fauces.

Bories.

### Ointment of Gold.

R. Pulverized gold, one drachm.
Lard, half an ounce.

Triturate well. As a dressing to venereal ulcers, and also to a surface having the cuticle removed; when the surface becomes dry, substitute the ointment of chloride of gold.

Legrand.

## AURI CHLORIDUM.

CHLORIDE OF GOLD.

R. Leaf gold,
Nitrie acid, sp. gr. 1.32,
each,
Muriatic acid, sp. gr. 1.17,
three parts.

Dissolve by aid of a sand-bath, and evaporate till vapors of chlorine are given off, and set aside to crystallize. Dose, one-twentieth to one-sixteenth of a grain. Paris Codex.

R. Pure gold, one part.

Nitro-muriatic acid (made with
three parts muriatic acid, one
part nitric acid, and one of
water), two parts.

Put the gold in a porcelain capsule, and add the acid; cover with a plate of glass, and place on a salt-water bath. Continue heat till nitrous fumes are no longer evolved. Raise the glass by means of a fold of paper, and continue heat, till, on introducing a glass rod, the adhering chloride of gold becomes solid on cooling. Remove from fire, and let crystallize.

Leval.

### Powder of Chloride of Gold.

R. Chloride of gold, one part.
Powdered orris root, two parts.
Mix. In frictions on the gums, in the dose of a fifteenth to a tenth of a grain. Foy.

### Bolus of Chloride of Gold.

R. Chloride of gold, half a grain. Extract of aconite, twelve grains. Mix, and make six boluses. One to be taken three times a day.

Brera.

### Pills of Chloride of Gold.

R. Chloride of gold, ten grains.
Powdered liquorice,
three drachms.
Syrup, sufficient.
Mix, and make one hundred and fifty pills.
One, thrice a day.

Ellis.

### Tincture of Chloride of Gold.

R. Leaf gold,
Nitro-muriatic acid,
Dissolve, and add
Oil of rosemary,
Alcohol,
Mix. Dose, ten drops.

one drachm.
one ounce.
two ounces.
eight ounces.

Spielmann.

### Caustic of Chloride of Gold.

R. Chloride of gold, one ounce.

Nitro-muriatic acid, one fl. ounce.

Mix. Used as a caustic to the surface of cancerous ulcers, applied by means of a dossil of lint.

Recamier.

## Collyrium of Chloride of Gold.

R. Chloride of gold, two grains.
Distilled water, six fl. ounces.
Dissolve. As a collyrium in ophthalmia.

Jahn.

### Ointment of Chloride of Gold.

R. Chloride of gold, eight grains.
Lard, half an ounce.
Mix. To relieve rheumatic pains.
Legrand.

### AURI ET SODII CHLORIDUM.

CHLORIDE OF GOLD AND SODIUM.

R. Leaf gold,
Nitric acid, sp. gr. 1.32,
each,
ten parts.
Muriatic acid, sp. gr. 1.17,
thirty parts.
Chloride of sodium, three parts.
Prepare the chloride of gold by the formula

Prepare the chloride of gold by the formula given above, dissolve it in distilled water, add the chloride of sodium, evaporate to a pellicle, and let crystallize. Paris Codex.

The Germ. Ph. proceeds nearly the same, but directs for sixty-five parts of metallic gold one hundred parts of chloride of sodium, so that the product contains half its weight of chloride of gold.

## Powder of Chloride of Gold and Sodium.

R. Chloride of gold and sodium, one part. two parts.

Mix. Cadet.

R. Chloride of gold and sodium, one part. Sugar of milk, sixteen parts. Mix. Radius.

R. Chloride of gold and sodium, three parts. Powdered orris root, nine parts. Mix. Three grains contain about three-fourths of a grain of the chloride, and are used for thirty frictions, for the weakest doses, and three for the strongest.

Legrand.

## Pills of Chloride of Gold and Sodium.

R. Chloride of gold and sodium, ten grains.
Potato starch, four grains.
Gum Arabic,

Distilled water, each, one drachm.

Mix, and make one hundred and twenty
pills. Each contains one-twelfth of a grain
of chloride.

Soubeiran.

R. Chloride of gold and
sodium, four grains.
Extract of bittersweet, one drachm.
Extract of aconite, ten grains.
Powdered marsh mallow,

Distilled water, each, sufficient.

Mix, and make eighty pills. Dose, three thrice a day, in dropsy, incontinence of urine, amaurosis, etc.

Groetzner.

R. Chloride of gold and sodium, one grain. Extract of mezereon, one drachm. Mix, and make sixty pills. Magendie.

### Lozenges of Chloride of Gold and Sodium.

R. Chloride of gold and sodium, five grains.

Powdered sugar, one ounce.

Mucilage of tragacanth, sufficient.

Rub the chloride in a glass mortar with the sugar, add the mucilage, and make sixty lozenges.

Soubeiran.

# Solution of Chloride of Gold and Sodium.

R. Chloride of gold and sodium, two grains.

Distilled water, one ounce.

Dissolve. Ten drops, every two hours, in dropsy and incontinence of urine. Radius.

# Syrup of Chloride of Gold and Sodium.

R. Chloride of gold and sodium, one grain. Syrup, six ounces. Dissolve. Dose, from half an ounce to an ounce.

Bories.

# Compound Syrup of Chloride of Gold and Sodium.

R. Peruvian bark,
Gentian, each, three ounces.
Mezereon, one ounce and a half.
Foxglove, two drachms and a half.
Water, one pint and a half.
Boil down to one pint, and pour the boiling decoction on

Bitter orange peel, one ounce.
Cloves, half an ounce.
After a sufficient infusion, strain, and add
Chloride of gold and
sodium, four grains.
A spoonful, night and morning. Bories.

# Ointment of Chloride of Gold and Sodium.

R. Chloride of gold and sodium, one scruple.

Lard, one ounce.

Mix well. Foy.

R. Chloride of gold and sodium, three to four grains.

Lard, half an ounce.

Mix thoroughly. Groetzner.

## AURI CYANIDUM.

CYANIDE OF GOLD.

R. Leaf gold, one part.

Nitro-muriatic acid, six parts.

Dissolve, and evaporate to dryness. Dissolve in

Distilled water, eight parts.

Reduce on a water-bath to one-fourth, and add very gradually

Cyanide of potassium, half a part.
Distilled water, twenty-four parts.

Agitate, let rest, and separate the cyanide of gold.

Soubeiran.

B. Fresh precipitated oxide of gold (washed, but not dried), at will. Diluted hydrocyanic

acid, sufficient.

Boil till solution assumes a beautiful yellow tint, evaporate to dryness on a water-bath.

Desfosses.

Dose, from eighteenth to tenth of a grain.

## Powder of Cyanide of Gold.

R. Cyanide of gold, one grain.
Lycopodium, fifteen grains.
Mix, and divide into sixteen powders. One every day, as friction on the gums and tongue.

Radius.

## Pills of Cyanide of Gold.

B. Cyanide of gold,
Powdered liquorice,
Mucilage,
Mix, and make sixteen pills.

One grain.
thirty-one
grains.
sufficient.
Radius.

R. Cyanide of gold, one grain. Extract of mezereon, three grains. Powdered marsh mallow, sufficient to make fifteen pills. Dose, one pill twice a day.

## Lozenges of Cyanide of Gold.

R. Cyanide of gold, one grain. Chocolate, sufficient to make sixteen lozenges. Soubeiran.

## Solution of Cyanide of Gold.

R. Cyanide of gold,
Diluted alcohol,
A teaspoonful, twice a day, gradually increasing the dose.

Christien.

## AURI IODIDUM.

IODIDE OF GOLD.

R. Solution of chloride of gold, at will. Solution of iodide of potassium, sufficient to precipitate; wash the precipitate with alcohol, and dry it. Old Paris Codex.

eight parts.

R. Solution chloride of gold, at will.

"iodide of ammonium, sufficient
to precipitate. Wash with alcohol, and dry.

"Miellet.

Used like the other preparations, and in

A HRI OVIDUM

the same doses.

## AURI OXIDUM.

OXIDE OF GOLD.

R. Chloride of gold, one part.
Distilled water, forty parts.
Dissolve, and add

Fresh calcined magnesia, four parts.

Boil; wash the precipitate with distilled water, then with nitric acid diluted with twenty parts of water, and again with water. Dry in the shade.

Dorvault.

Dose, from a tenth to three-fourths of a

### Powder of Oxide of Gold.

R. Oxide of gold, two drachms.
Sulphuret of antimony, half
an ounce.
Oil of cinnamon, eight drops.

Triturate together. Spielmann.
 R. Oxide of gold, four scruples.
 Prepared hartshorn, one ounce.
 Triturate together. Used in malignant

Triturate together. Used in malignant fevers and smallpox. Spielmann.

### Pills of Oxide of Gold.

R. Oxide of gold, five grains. Extract of mezereon, two drachms. Mix, and make sixty pills. Magendie.

# AURUM AMMONIATUM.

AMMONIATED GOLD.

R. Gold leaf, two drachms.

Nitro-muriatic acid, one ounce.

Dissolve, and add

Water of ammonia, sufficient to precipitate. Wash and dry, with great caution.

This is what is termed fulminating gold, and explodes at 400° F. It has been used in fevers, etc., as a diaphoretic, but has produced unpleasant consequences.

### Pills of Ammoniated Gold.

R. Ammoniated gold, Calomel, half a drachm.

Powdered rhubarb, two drachms.
Conserve of juniper, sufficient.
Mix, and make pills of two grains.

Plenck.

## AURUM STANNO-PARATUM.

## PURPLE OF CASSIUS.

R. Chloride of gold, one part.
Distilled water, two hundred parts.
Add to this solution, very gradually,

Pure tin, one part.
Nitro-muriatic acid, three parts.
Dissolve without heat, and add

Distilled water, one hundred parts,

as long as any precipitate falls. Wash this and dry by a gentle heat.

Paris Codex, 1839.
This is used like the other preparations of gold.

## AVENA SATIVA.

#### OAT.

The common oat, although generally cultivated from a very early age, is not known in a wild state.

Sex. Syst. Triand. digyn. Nat. Syst. Gra-

Linn. Sp. Pl. 61. Griffith, Med. Bot. 662. Though for the most part used as food for horses, it contains much nutritive matter, and forms an important article of diet in some parts of Europe. It is also employed in medicine as a bland, nutritious, and somewhat laxative nutriment in inflammatory diseases. When the grains are merely freed from their husk and coarsely broken, they are called groats.

### Groat Gruel.

R. Groats, three ounces.

Wash well in cold water, and then put into
Fresh water, four pints.

Boil slowly to one-half, and strain through a fine sieve.

A. T. Thomson.

R. Groats, five drachms.
Liquorice root, three drachms.
Boil the groats in sufficient water to have one quart of decoction, add the liquorice, and after a sufficient infusion, strain.

Cottereau.

### Oatmeal Gruel.

Water, one pint and a half.
Rub the meal in a basin, with the back of a spoon, in some of the water, pouring off the fluid after the grosser particles have subsided, but whilst the milkiness remains; repeat this with fresh water. Stir well, and unite the washings, and boil until a soft, thick mucilage is formed.

A. T. Thomson.

Both these preparations may be flavored according to circumstances.

## Compound Decoction of Oatmeal.

R. Groats, six ounces.
Red saunders, chipped, one ounce.
Chicory root, one ounce and a half.
Water, twelve pints.
Boil down one-third, and add to the strained decoction

Nitre, half an ounce. Sugar, two ounces.

Dissolve. Advised in gout, nephritis, etc., to be taken hot or tepid, morning and evening, for some weeks, in doses of six or eight fl. ounces.

Wirt. Ph.

## Flummery of Oatmeal.

R. Oatmeal or groats, a quart.
Rub for a considerable time with two quarts of hot water, and let the mixture stand till it becomes sour, then add another quart of hot water, and strain through a hair sieve. Let stand till a white sediment is deposited, decant the fluid, and wash the sediment with cold water. This is now to be boiled with fresh water, till it forms a mucilage, stirring the whole time. It is a very light and somewhat nutritious food, during early convalescence.

A. T. Thomson.

### Powder for a Cataplasm.

R. Linseed meal, one part. two parts.

Dub. Ph. 1826.

R. Powder for a cataplasm, at will.
Boiling water, sufficient.
Mix for a poultice. Dub. Ph. 1826.

### Oatmeal Poultice.

R. Oatmeal, sufficient.

Stir gradually into water kept boiling, until it is sufficiently consistent.

A. T. Thomson.

## AZEDARACH.

## AZEDARACH-(PRIDE OF CHINA.)

The Melia Azedarach is a tree, a native of many parts of Asia, and naturalized in the warmer parts of Europe and the United States.

Sex. Syst. Hexand. monog. Nat. Syst. Meliaceæ.

Linn. Sp. Pl. 550. Griffith, Med. Bot. 179.
The parts used are the bark of the root,
the berries, and the leaves. The former
only is officinal in the U.S. Pharm. It is
cathartic and emetic; in large doses somewhat narcotic; it is also an efficient anthelmintic.

### Decoction of Azedarach.

R. Azedarach, four ounces-Water, two pints. Boil to a pint, and strain. Wood.

Dose, one fl. ounce, every two or three hours, for a child.

## Ointment of Azedarach Berries.

R. Pulp of berries,

Lard, each, one ounce.
Rub well together. Said to be useful as an application in tinea capitis.

# В.

## BALLOTA LANATA.

## HAIRY HOREHOUND.

Several species of *Ballota* have at different times been used in medicine, but this is the only one that appears to possess active properties.

Sex. Syst. Didynam. gym. Nat. Syst.

Lamiaceæ.

The whole plant is used, with the exception of the root, and is stated to be an excellent diuretic, and useful in dropsical cases.

## Decoction of Hairy Horehound.

R. Hairy horehound, one ounce and a half. boiling water, two pints.

Boil down to one pint. Dose, a cupful twice a day, gradually increasing the quantity.

Rehmann.

## BALSAMUM PERUVIANUM.

### Balsam of Peru.

This balsam is the product of Myrospermum Peruiferum, or of Myroxylon Pereiræ, a large tree indigenous to South America, where it is called quinquino.

Sez. Syst. Decand. monog. Nat. Syst. Fa-

Linn. Sp. Pl. 233. Griffith, Med. Bot. 248. The balsam is a thick, viscid fluid, of a dark, reddish-brown color, an agreeable, fragrant odor, and a warm, bitterish taste, occasioning a pungent sensation in the throat. It is stimulating, tonic, and expectorant, and has been much used in pectoral complaints, etc., and also externally as an application to indolent ulcers. The dose is about half a fl. drachm.

### Pills of Balsam of Peru.

R. Balsam of Peru, one drachm. Extract of bitter

polygala, two drachms.
Marsh mallow, sufficient

to make one hundred and twenty pills. Ten, four times a day, in chronic mucous discharges.

Schubert.

### Acoustic Balsam.

R. Balsam of Peru, half a drachm. Narcotic oil,

Onion juice, each, one ounce.

Mix. A dossil of cotton saturated with
this oil is to be introduced into the deaf
ear, provided there is no inflammation or
violent pain.

R. Beef gall, three fl. drachms.
Balsam of Peru, one fl. drachm.
Mix. To be occasionally dropped into the ear to correct a fetid discharge, syringing it also, daily, with a weak solution of soap and water.

Hugh Smith.

### Liniment for Chilblains.

R. Balsam of Peru, half a drachm.

Muriatic ether,
Laudanum, each, two drachms.

Mix. As a friction.

Henschel.

Mamillary Lotion.

R. Balsam of Peru, one drachm.
Yolk of egg, one.
Spirit of wild thyme, three ounces.
Mix. The sore nipple is to be bathed with
this, and then sprinkled with a powder,
composed of one drachm of Peruvian bark,
and two drachms of gum Arabic. Iverg.

### Balsam of Peru Mixture.

R. Balsam of Peru, two drachms. Yolk of egg, Extract of einchona, two drachms. Honey of roses, three ounces.

Mix. Two dessertspoonfuls, four times a day, in chronic mucous discharges.

St. Marie.

half a drachm. R. Balsam of Peru, Mucilage of gum Arabic, sufficient. Cinnamon water,

Water, each, half a fl. ounce. Mix. To be taken three or four times a day, as an expectorant in chronic catarrh.

Ellis.

### Tincture of Balsam of Peru.

R. Balsam of Peru, one part. Alcohol, five parts. Macerate for ten days, and filter.

Paris Codex. Principally used as an external application to ulcers, etc.

## Syrup of Balsam of Peru.

R. Balsam of Peru, one part. Water, eleven parts. Digest for several hours, frequently shaking; cool, decant, filter, and to ten parts of the filtrate add

eighteen parts. Make a syrup. Dose, one to four fl. drachms. Ph. Germ.

### Balsam of Peru Collutory.

R. Tincture of balsam of Peru, one part. Tincture of guaiacum, four parts. Mix. A teaspoonful to a glass of water, to rinse the mouth. Taddei.

### Oleo-balsamic Mixture.

R. Oil of lavender, cloves, 66 cinnamon, each, thyme, one part. 66 lemon, 66 mace, orange flowers,

Balsam of Peru, three parts. two hundred and Alcohol forty parts.

Macerate for a week, shaking frequently, Ph. Germ. Bot. 250. and filter.

Known as Hoffmann's Balsam of Life. Dose, ten to thirty drops on sugar or in

### Locatelli's Balsam.

R. Olive oil, six ounces. Yellow wax, four ounces. five fl. ounces. Wine,

Melt together by a gentle heat, till all moisture is evaporated, and add

Venice turpentine, six ounces. Balsam of Peru, two drachms. half an ounce. Red saunders, Mix. Formerly used in phthisis, but now employed only as an external application. This is the original formula. Spielmann.

### Ointment of Balsam of Peru.

R. Balsam of Peru, Spermaceti ointment, equal parts. Mix. As a dressing to painful ulcers.

Radius.

### Compound Ointment of Balsam of Peru.

two ounces. R. Lard, White wax, four drachms. Melt in a water-bath, and add

Balsam of Peru, two drachms. Oil of lavender, twelve minims. As an application to promote the growth Copland. of the hair.

#### Plaster of Balsam of Peru.

R. Powdered carbonate of sixteen parts. lead. eight parts. Powdered litharge, forty-eight parts. Rose oil, White wax, thirty-two parts. Melt together, and, at close of operation,

Balsam of Peru, two parts. As an application to indolent ulcers. Foy.

## BALSAMUM TOLUTANUM.

## BALSAM OF TOLU.

This is the balsamic exudation of Myrospermum (Myroxylon) toluiferum, a large tree (of which little is known) growing in several parts of South America.

Sex. Syst. Decand. monog. Nat. Syst. Fa-

baceæ.

De Candolle, Prod. ii. 95. Griffith, Med.

As first obtained, the balsam is soft and tenacious, but it gradually becomes hard and brittle; then it is transparent, shining, of a yellowish, or reddish-brown color, of a fragrant odor, and a sweetish, warm taste. It is a stimulating expectorant. The dose is from ten to thirty grains.

## Lozenges of Tolu.

R. Balsam of Tolu, one ounce.
Alcohol, one fl. ounce.
Dissolve and add

Water, two fl. ounces.

Heat in a water-bath, and filter; add

Tragacanth, five scruples.
Sugar, twenty ounces.

Sugar, twenty ounces.

Beat into a paste, and make lozenges of fifteen grains.

Paris Codex.

### Tincture of Tolu.

R. Balsam of Tolu, three troyounces.
Alcohol, two pints.

Macerate till dissolved, then filter. U.S. Ph. Tincture of Tolu of Brit. Ph. contains one-fourth more Tolu than the preceding; that of Paris Codex is twice this strength.

A highly stimulating expectorant. Dose, one to two fl. drachms.

## Compound Tincture of Tolu.

R. Balsam of Tolu, two ounces.
Balsam of Peru, one ounce.
Benzoic acid,
Saffron, each, half an ounce.
Alcohol, twenty-four fl. ounces.
Digest for three days, and filter. Spielmann.

## Tincture of Tolu with Foxglove.

R. Tincture of Tolu, one fl. ounce and a half. Elixir of vitriol, half a fl. drachm. Tincture of foxglove, one fl. drachm. Antimonial wine, two fl. drachms. Clarified honey, one fl. ounce and a half. Powdered liquorice, half a drachm. Distilled water, six fl. ounces. Mix. A tablespoonful, according to circumstances.

## Emulsion of Tolu.

R. Balsam of Tolu, three drachms.

"Mecca, eight drops.
Sweet almonds, half an ounce.

Barley water, eighteen fl. ounces.
Sugar, six drachms.
Make an emulsion. A spoonful occasionally, in chronic catarrh, etc. Spielmann.

## Syrup of Tolu.

R. Tincture of Tolu, two fl. ounces.

Carbonate of magnesium, two
drachms.

Water, one pint.

Sugar, twenty-six troyounces.

Rub the tincture with the carbonate and two troyounces of the sugar, then with the water gradually added, and filter; add the remainder of the sugar, dissolve with a gentle heat, and strain.

U. S. Ph.

R. Tincture of Tolu, one and a half fl. ounces.
Sugar, (troy) two and a half pounds.
Water, one pint.

Mix the tincture with one pound of sugar, in a shallow dish, and allow the alcohol to evaporate spontaneously. Then add the remainder of the sugar, and dissolve it in twelve fl. ounces of the water. Beat up the white of an egg with the remaining four ounces of water, add it to the syrup, boil for a minute or two, and strain through flannel.

J. Laidley.

Boiling water,
Sugar,
Boil the balsam in water for half an hour, occasionally stirring; when cold filter to obtain one pint, add the sugar, and form syrup.

Bulsam of Tolu,
one ounce and a quarter.
Sufficient.
Sugar,
thirty-two ounces.
Boil the balsam in water for half an hour, occasionally stirring; when cold filter to obtain one pint, add the sugar, and form syrup.

Brit. Ph.

## Mixture of Tolu and Morphia.

R. Oxymel of
squill, one ounce and a half.
Syrup of Tolu, half an ounce.
Acetate of
morphia, half to one grain.
Mix. A teaspoonful, as occasion may require, in catarrh.

Ellis.

### Mixture of Tolu and Belladonna.

R. Syrup of Tolu, three fl. ounces and a half.

"seneka, half a fl. ounce.
Extract of belladonna,
eight to twelve grains.
Wine of ipecacuanha,
one fl. drachm.

Ellis. day, in cough.

### Mixture of Tolu and Almond Emulsion.

R. Almond emulsion, fifteen parts. Syrup of Tolu, one part. Mix. In cough. Béral.

## Mixture of Tolu and Copaiba.

R. Balsam of Tolu, Copaiba, Powdered gum Arabic, each, half an ounce. Elixir of vitriol, twenty drops. six fl. ounces. Distilled water, Mix. A tablespoonful occasionally, in Ellis. chronic hooping-cough.

### Tolu Mixture.

R. Tincture of Tolu, one ounce. Laudanum, two drachms. Tincture of foxglove, one drachm. Mix. In the chronic cough of hæmoptysis. Forty to fifty drops, every three or four hours. Dewees.

## Mixture of Tolu and Opium.

R. Balsam of Tolu, one drachm. Powdered gum A rabic, one drachm and a half. four fl. ounces. Syrup of opium, half a fl. ounce. Make an emulsion. Niemann.

### Inhalation of Tolu.

R. Balsam of Tolu, one ounce. Boiling water, one pint. Mix. The vapor to be inhaled. Ellis.

# BAPTISIA TINCTORIA.

### WILD INDIGO.

A native plant, found in most parts of the country; becoming black when dried. Sex. Syst. Decand. monog. Nat. Syst. Fabaceæ.

Torrey and Gray, Flor. i. 386. Griffith, Med. Bot. 231.

The root, which is the part used, is emetic and purgative when fresh. Has been considered a valuable antiseptic and febrifuge, sidered a valuable antiseptic and febrifuge, quarter of a grain; but is chiefly employed and has been given with advantage in ty- for preparing the soluble salts of barium.

Mix. A teaspoonful three or four times a phus fever, scarlatina, etc., and also used as a wash to foul ulcers, aphthæ, etc. Most employed in decoction.

## Decoction of Wild Indigo.

R. Root of wild indigo, one ounce. Boiling water, a pint and a half. Boil down to a pint. Dose, half a fl. ounce every four to eight hours. Comstock.

## Ointment of Wild Indigo.

R. Contused root of wild indigo, two ounces. Lard, six ounces. Simmer together for an hour and strain. Has been found beneficial as an application to burns and ulcers.

# BARIUM. BARII ACETAS.

## ACETATE OF BARIUM.

R. Carbonate of barium, at will. Acetic acid, sufficient to saturate; filter, evaporate, and crystal-

### Solution of Acetate of Barium.

R. Acetate of barium, one part. Distilled water, nine parts. Dissolve, and filter. In same cases and doses as the solution of baryta. Hamb. Ph.

## BARII CARBONAS.

CARBONATE OF BARIUM.

R. Native sulphate of barium (heavy four parts. spar), Fused chloride of calcium, two parts. Charcoal, one part.

Reduce separately to a fine powder, mix intimately and heat to redness, as long as the blue flame of carbonic oxide is observed. Boil with water, filter, and crystallize. Redissolve the crystals in distilled water, precipitate with solution of pure carbonate of sodium, wash, and dry.

May be used in doses of one-eighth to a

## BARII CHLORIDUM.

CHLORIDE OF BARIUM.

R. Carbonate of barium,
Muriatic acid, each,
troyounces.
Water,
one pint.

Mix the acid with the water, and gradually add the baryta; towards the close of effervescence, apply a gentle heat, and, when action has ceased, filter, and evaporate for crystals to form.

U. S. Ph.

### Powders of Chloride of Barium.

R. Chloride of barium, two drachms.
Calomel, ten grains.
Sulphuret of antimony, six grains.
Mix, and divide into forty-eight powders.
Dose, two a day in syrup, in cutaneous affections.

Swediaur.

### Pills of Chloride of Barium.

R. Chloride of barium,
Extract of liquorice,
each, half a drachm.
Powdered liquorice root,
Water, each, sufficient.
Mix, and divide into one hundred and twenty pills.
Phæbus.
Dose, four to eight, three or four times a

R. Chloride of barium, one drachm.
Resin of guaiacum, half an ounce.
Conserve of fumitory, sufficient.
Mix, and make one hundred and eightyeight-pills. One to be taken morning and
evening, increased to two, against tapeworm.

Pierquin.

### Solution of Chloride of Barium.

R. Chloride of barium, one troyounce.

Distilled water, three fl. ounces.

Dissolve, and filter.

Has been used in small doses in cancer and scrofula. Dose, five drops, two or three times a day, cautiously increasing.

## Collyrium of Chloride of Barium.

R. Chloride of barium, ten grains.
Distilled water, one ounce.
Dissolve, filter, and add
Mucilage of quince seeds, two
drachms.
Wine of opium, half a drachm.

Radius.

The eyelids are to be washed several times a day with this, in scrofulous ophthalmia.

### Mixture of Chloride of Barium.

R. Chloride of barium,
" iron, each, half a drachm.
Distilled water, one ounce.
Dissolve.
Dose, twenty to sixty drops.

R. Chloride of barium,
Extract of cicuta,
each, half a drachm.
Distilled water, half an ounce.
Antimonial wine, one drachm and
a half.
Phæbus.

Dose, fifteen to twenty drops every three hours, in chronic orchitis.

R. Chloride of barium, one drachm.

Balm water, seven fl. drachms.

Antimonial wine, one fl. drachm.

Dose, twenty to thirty drops four times a day.

Hufeland.

R. Chloride of barium, four grains.
Distilled water, two fl. ounces.
Extract of hemlock, four grains.
Common emulsion, one pound.
Syrup, one ounce.
Mix. To be taken during the day, in scrofula, and scrofulous phthisis.

Brera.

## BARII IODIDUM.

IODIDE OF BARIUM.

R. Iodine, one hundred parts.
Iron filings, thirty parts.
Water, sufficient.

Prepare an iodide of iron, add baryta dissolved in twenty parts of water, as long as a precipitate is formed, heat a moment, filter, evaporate, and crystallize. Magendie.

Has been used with success in scrofula. Dose, one-eighth of a grain, three times a day, cautiously increasing.

#### Powder of Iodide of Barium.

R. Iodide of barium, one grain. Powdered cinnamon,

rachms. drachm. Mix well, and divide into eight powders. One to be given two or three times a day Radius. Radius.

### Ointment of Iodide of Barium.

R. Iodide of barium, four grains. Lard, one ounce.

Mix. As a friction in scrofulous swellings.

Biett.

## BARII SULPHURETUM.

SULPHURET OF BARIUM.

R. Sulphate of barium, eleven parts.
Charcoal, one part.
Oil of turpentine, sufficient.

Triturate the sulphate with the coal, moisten the mixture with the turpentine, and heat the whole in a crucible to redness; let cool, and preserve. Van Mons.

## BARYTA.

### BARYTES.

R. Nitrate of barium, sufficient. Expose in a platina crucible to a red heat. When the mass has become solid and porous, raise to a white heat, remove from fire, and cool.

Van Mans.

## Solution of Barytes.

R. Baryta, one part.
Distilled water, twenty parts.

Dissolve. Van Mons.

Has been recommended in scrofula, in doses of four to five drops, in some appropriate vehicle.

## Barytic Liniment.

R. Solution of baryta, one part.
Olive oil, six parts.
Rub together.
Soubeiran.

Rub together. Soubeiran.

Advised as an external application in lepra, and other obstinate cutaneous diseases.

## BEBERIA.

### BEBEERINA.

This is an alkaloid obtained from bebeeru bark, the bark of the greenheart tree, growing in British Guiana. It belongs to the genus Nectandra, and has been named N. Rodioi. The bark is in flat pieces, smooth, grayish, hard, heavy, and brittle, with but little odor, though of a very bitter taste. Bebeerina is extracted from this bark in the form of a sulphate, by a process similar to that used to obtain sulphate of quinia. In this form it contains both bebeerina and siperina, and is in thin, somewhat glittering scales of a dark brownish color, forming a yellow powder, soluble in cold water, but

often forming a turbid solution, which is rendered clear by a few drops of diluted sulphuric acid. Pure bebeering can be obtained from this solution as follows:—

Decompose by ammonia, wash the precipitate, and whilst moist, triturate with moist hydrated oxide of lead; dry on a water-bath, exhaust with alcohol, and distil off the spirit, treat the residue with ether; on the evaporation of the ether, bebeerina will be left of a bright canary-yellow color, but in powder appears nearly white.

Dose of the sulphate is one to three grains as a tonic, and five grains to a scruple as a

febrifuge.

It is not equal to quinia as an antiperiodic, but is a good substitute for that article.

Bebeeru bark is rarely if ever used in medicine in this country, but may be employed similar to cinchona, and in larger doses.

### Pills of Sulphate of Bebeerina.

R. Sulphate of bebeerina, two drachms.

Conserve of roses, sufficient.

Mix, and form twenty-four pills—one to three, thrice a day in intermittent fevers.

Christison.

## Solution of Sulphate of Bebeerina.

R. Sulphate of bebeerina, half a drachm.

Diluted sulphuric acid, twenty-five minims.

Syrup, Tincture of orange-peel,

each, one fl. ounce. Water, four fl. ounces.

Mix. A tablespoonful three times a day. Christison.

### BECCABUNGA.

### BROOKLIME.

Two species of *Veronica* of similar properties are included under this name, the *V. beccabunga* and *V. anagallis*; they are both semi-aquatic plants, indigenous to Europe and to this country.

Sex. Syst. Diand. monog. Nat. Syst. Scroph-

ulariaceæ.

Griffith, Med. Bot. 517.

These plants are employed usually in a fresh state, and considered to be antiscorbutic and alterative. They are usually given in infusion made with one or two handfuls of the herb to a pint of boiling water. They have also been employed in conserve, syrup, etc.

### Water of Brooklime.

R. Brooklime, Water, each, two parts. Distil off one part. Dose, one to four ounces.

### Decoction of Brooklime.

R. Fresh brooklime, three ounces. Water, one pint.

Boil for fifteen minutes and strain.

Copland.

## Syrup of Brooklime.

R. Clarified juice of brooklime, one part. Sugar, two parts. Dissolve, by means of a water-bath.

Taddei.

## BELA.

#### BENGAL QUINCE. BAEL.

The fruit of Ægle Marmelos, a large tree of Coromandel and Malabar.

Sex. Syst. Polyan. Monogyn. Nat. Syst.

Aurantiaceæ.

It is globular, of the size of an orange, with a hard, almost woody rind. It is usually met with in slices or fragments, consisting of the rind with some dried pulp and seeds adhering to it; it has a slight balsamic odor, and a bitterish astringent taste; the pulp is mucilaginous. It is used as a tonic and astringent, mostly in the form of fluid extract.

### Fluid Extract of Bael.

R. Bael fruit, sixteen ounces. Distilled water, twelve pints (imp.) Rectified spirit, two fl. ounces.

Macerate the bael for twelve hours in onethird of the water; pour off the clear liquor; repeat the maceration a second and third time for one hour in the remaining water; press the marc, and filter the mixed liquids through flannel. Evaporate to fourteen fl. ounces, and when cold add the spirit. Dose, one to two fl. drachms. Brit. Ph.

## BELLADONNA.

### BELLADONNA.

This is the Atropa belladonna, an herbace-ous plant, native of Europe, and cultivated in some places in the United States.

Sex. Syst. Pentad. monog. Nat. Syst. So-

Linn. Sp. Pl. 260. Griffith, Med. Bot. 486. The root and leaves are officinal, some pharmacopæias allowing the young branches to be collected with the leaves. The entire plant is powerfully narcotic, owing to the

Cottereau. | presence of the alkaloid Atropia. (See page 156). It has been used in a variety of diseases as an anodyne, antispasmodic, and discutient. The dose of the powdered leaves is one to two grains, daily or twice a day, gradually increasing. But it is more usually given in the form of an extract.

### Powder of Belladonna.

R. Powdered belladonna

Oxide of zinc,

root, three grains.

Powdered ipecacuanha,

two grains. six grains.

Sugar, one drachm.

Rub together, and divide into six powders. One every two hours in epilepsy. Radius.

## R. Powdered belladonna

root, two grains. Powdered ipecacuanha, one grain. Washed sulphur, thirty-two grains.

Sugar of milk, two drachms. Rub well together, divide into twenty powders. One every three hours in hooping-cough. Phæbus.

R. Powdered belladonna, one grain.

nitrate of potassium, twenty-one grains.

nine grains. sugar,

Make a powder, to be taken at bedtime. In chronic rheumatism, extensive ulcerations, mania, and epilepsy. A. T. Thomson.

R. Powdered root of belladonna,

ipecacuanha, each,

six grains.

liquorice root,

sugar, each, half a drachm.

Precipitated sulphur, two scruples. Oil of anise,

" amber, each, three minims.

Mix, and make five to twenty powders.

A. T. Thomson.

R. Powdered leaves of

belladonna, one to three grains.

Musk,

Camphor, each, five grains. thirty grains. Sugar, Triturate well together, and divide into

A. T. Thomson. eight powders.

### Powder of Belladonna and Rhubarb.

R. Powdered belladonna

leaves, ten grains. Powdered rhubarb, two scruples. Mix, and divide into ten powders. One powder, two or three times a day, in obstructions of the liver and spleen.

Radius.

## Opiated Belladonna Leaves.

R. Belladonna leaves,

Water, each, two ounces. Extract of opium, one drachm. Dissolve the opium in the water, wash the leaves with the solution, and dry them by a gentle heat. Guibourt.

Said to be very useful in phthisis, the patient to smoke a pinch every morning in

a common pipe.

## Fumigation of Belladonna.

R. Powdered belladonna, one drachm. Boiling infusion of sage, one quart.

The steam to be inhaled. Said to be useful in hooping-cough and phthisis.

Soubeiran.

### Extract of Belladonna.

R. Belladonna leaves, one pound. Bruise in a stone mortar, with the addition of a little water; express the juice, heat to boiling point, strain, and evaporate to proper consistence. U. S. Ph.

Paris Codex operates in same manner, but cools and strains concentrated juice previous to final inspissation. Brit. Ph. separates first the chlorophyll, afterwards the albumen, and when of a syrupy consistence, adds again the chlorophyll, Germ. Ph. separates chlorophyll and albumen by heat, concentrates the liquid, and removes mucilaginous constituents by alcohol.

Dose, half to one grain night and morn-

ing, to be gradually increased.

### Alcoholic Extract of Belladonna.

R. Belladonna leaves, in

fine powder, twenty-four troyounces. Alcohol, four pints. Water, two pints. Diluted alcohol, sufficient.

Moisten the leaves with a pint of the mixed alcohol and water, pack in a displacement apparatus, and add gradually the remainder of mixture. Continue percolation with diluted alcohol until six pints of tincture have passed. Distil off alcohol, and evaporate to proper consistence. U. S. Ph.

Dose, quarter to half a grain, to be grad-

ually increased.

## Compound Belladonna Pills.

R. Extract of belladonna, ) each, Blue pill, twelve Powdered ipecacuanha,) grains. Mix and make twelve pills. One to be taken morning and evening, in cancerous affections. Ainslie.

## Pills of Belladonna and Camphor.

R. Camphor, three drachms. Assafetida, three drachms. Extract of belladonna, one drachm. Extract of opium, fifteen grains. Syrup of gum Arabic, sufficient. Mix, and make one hundred and twenty pills. Give one pill the first day, two the second, and so on till six are given daily, in hysteria. Debreyne.

## Solution of Extract of Belladonna.

R. Extract of belladonna.

three grains.

Cinnamon water, one fl. ounce. Make a solution. Dose for a child under one year, two or three drops twice or thrice a day, and an additional drop for each additional year.

Said to have proved efficacious as a pre-

ventive of scarlatina.

### Infusion of Belladonna.

R. Belladonna leaves, four grains. two fl. ounces. Boiling water, Infuse. Take one-half as a dose.

R. Belladonna leaves, half a drachm. Water, seven fl. ounces.

Infuse, strain, and add

Compound tincture of one fl. ounce. cardamom, Dose, a tablespoonful. Saunders.

### Syrup of Belladonna.

R. Extract of belladonna,

forty-eight grains.

Distilled water, two fl. ounces. Dissolve and filter, then add

Syrup, three pounds. Boil, and strain. Cottereau. Said to be useful in hooping-cough in doses of one to three drachms.

## Gillet's Syrup of Belladonna.

R. Dried belladonna leaves,

one ounce.

Digitalis,
Common nightshade, each,
one drachm.
Water, ten fl. ounces.
Digest for two days, and filter, then add
Syrup, two pounds.
Cadet.

Advised in hooping-cough, in the dose of a teaspoonful every hour or two.

### Tincture of Belladonna.

R. Belladonna leaves,

four troyounces.
Diluted alcohol, sufficient.
Obtain by percolation two pints. U. S. Ph.
Tincture of belladonna of Brit. Ph. is
two-fifths the strength, and that of Paris
Codex nearly one-fourth stronger than the
above.

R. Fresh belladonna leaves with the flowering branches, five parts. Alcohol, sp. gr. 0.892, six parts. Bruise the belladonna in a stone mortar; macerate with the spirit for eight days, express, and filter.

The dose is from fifteen to thirty drops.

### Ethereal Tincture of Belladonna.

R. Belladonna leaves, dried, one part.
Sulphuric ether, eight parts.
Macerate for eight days, and filter.

Guibourt.

#### Fluid Extract of Belladonna Root.

R. Belladonna root, powdered,

No. 50, sixteen troyounces. Moisten with one-fourth of a mixture composed of twelve fl. ounces of alcohol, three of glycerin, and one of water, pack well into a percolator, add the remainder of the mixture, and macerate for four days. Displace with diluted alcohol twenty-four fl. ounces; reserve the first fourteen fl. ounces, add to the remaining tincture one fl. ounce of glycerin, evaporate to two fl. ounces, and mix with the reserved portion. U. S. Ph.

#### Belladonna Mixture.

R. Extract of belladonna,
eight to twelve grains.
Wine of ipecacuanha,
one fl. drachm.
Syrup of seneka, half fl. ounce.
"tolu,

Mix. Advised in catarrh, in the dose of a teaspoonful, three or four times a day, using also gum-water acidulated with lemon-juice.

R. Extract of belladonna,

Fennel water,
Alcohol,
solve. Dose, a drop for every year of

Dissolve. Dose, a drop for every year of the age of a child, not to exceed fifteen; as a preventive of scarlatina. Maisier.

### Liniment of Belladonna.

R. Powdered belladonna

root, twenty ounces.
Camphor, one ounce.
Rectified spirit, sufficient.

Macerate the powder with a portion of the spirit for three days; then displace slowly into a receiver containing the camphor, until the product measures a pint (twenty fl. ounces).

Brit. Ph.

R. Extract of belladonna,

Sulphuric ether, one fl. drachm. Cherry-laurel water, two fl. ounces.

Mix. As a friction to the abdomen in colica pictonum.

Phæbus.

#### Oleo-infusion of Belladonna.

R. Bruised fresh belladonna

leaves, one part.
Olive oil, two parts.
Heat by means of a slow fire, until the moisture has evaporated, express, and filter.
As an addition to liniments. Paris Codex.

### Suppositories of Belladonna.

R. Alcoholic extract of

belladonna, six grains.
Cacao butter, three hundred and fifty-four grains.

Rub extract into a smooth paste with a little water, afterwards with sixty grains of cacao butter, mix thoroughly with remainder of cacao butter previously melted and cooled to 95°, and make twelve suppositories.

U. S. Ph.

### Clyster of Belladonna.

R. Belladonna leaves,

twelve to twenty grains.

Powdered jalap, one scruple.
Boiling water, half a pint.

Infuse, and strain.

Pitschaft.

tolu, This has been recommended in stranguthree and a half fl. ounces. lated hernia, to overcome spasm.

### Plaster of Belladonna.

R. Powdered belladonna

root. sixteen troyounces.

Alcohol.

Resin plaster, each, sufficient. Exhaust the powder with the alcohol, distil and evaporate the tincture, and add to the extract sufficient resin plaster previously melted, to make the weight of the mixture sixteen troyounces.

Brit. Ph. exhausts three ounces of extract with alcohol, evaporates, and mixes

with same quantity of resin plaster.

R. Purified elemi, two parts. Wax, one part. Alcoholic extract of belladonna, nine parts.

Melt and mix. Paris Codex.

R. Yellow wax. four parts. Common turpentine,

Olive oil, each, one part. Melt together, and when nearly cold, add

Powdered belladonna

leaves. two parts. Mix. Ph. Germ.

An efficacious application in neuralgic and rheumatic pains.

### Cerate of Belladonna.

R. Extract of belladonna, one part. Galien's cerate, nine parts. Mix thoroughly. Paris Codex.

### Ointment of Belladonna.

R. Extract of belladonna, one drachm. Water, thirty minims. Lard, seven drachms.

U. S. Ph. Brit. Ph. directs eighty grains of extract to one ounce avoir. of lard; Germ. Ph. one drachm of extract to nine drachms of wax ointment.

## BENZOINUM.

#### BENZOIN

Is the solid balsam or balsamic resin of the Styrax Benzoin, a tree of some size, native of several of the East Indian Islands. Sex. Syst. Decand. monog. Nat. Syst.

Styracaceæ.

Dryander, Ph. Trans. lxxvii. 308. Griffith,

Med. Bot. 439.

Mix.

There are several varieties of benzoin, but the best is in whitish tears, united by a reddish-brown connecting medium. It has an aromatic, agreeable odor, and a somewhat acrid taste. It is stimulant and expectorant, and is much used in chronic catarrhs. Inhalation of the fumes has been recommended in hoarseness and aphonia.

### Benzoinated Lard or Ointment.

R. Benzoin in coarse

powder, one ounce. Lard, forty-four ounces. Heat them together in a water-bath for two hours, strain without pressure, and stir Brit. Ph. while cooling.

R. Tincture of benzoin,

two fluidounces.

Lard, sixteen troyounces. Apply the heat of a water-bath, constantly stirring, until the alcohol has evaporated, then stir while cooling. U. S. Ph.

Employed for ointments to prevent them from becoming rancid when long kept.

## Fumigating Powder.

R. Powdered olibanum, two pounds.

benzoin,

66 storax, each, half a pound.

dried roses,

lavender flowers,

each, six ounces.

Mix. A small quantity to be thrown on hot coals, to raise a smoke; to be inhaled in hooping-cough, etc. Dohrn.

### Fumigating Pastilles.

R. Benzoin, ten parts. Charcoal, twenty-four parts. Nitrate of potassium, one part. Sassafras, two parts. Mucilage of gum

Arabic, sufficient to make pastilles, which are to be conical.

Béral.

R. Benzoin, sixteen parts. Sandal wood, four parts. Laudanum, one part. Balsam of tolu, four parts. forty-eight parts. Charcoal, Nitrate of potassium, two parts. Mucilage of tragacanth, sufficient. Make conical pastilles. Foy.

### Powder of Benzoin.

R. Powdered benzoin, sugar candy,

equal parts. Mix. Said to be useful with camphor water in asthma and chronic catarrh.

Pierquin.

### Oil of Benzoin.

R. Benzoin, at will.
Water, a small quantity.
Distil on a sand-bath, and separate the oil that passes over.

Advised as a friction in neuralgic and rheumatic pains. Swediaur.

### Cosmetic Wash of Benzoin.

R. Tincture of benzoin, three fl. drachms.

Liquid carbonate of
potassium, two fl. drachms.
Rose water, eight fl. ounces.
Mix. As a lotion in acne. Augustin.

### Cosmetic Emulsion of Benzoin.

R. Almond paste, two drachms. Rose water, eight fl. ounces.

Make an emulsion, and add

Tincture of benzoin, three fl. drachms.

### Milk of Roses.

R. Tincture of benzoin, one fl. drachm.
Rose water, one pint.
Mix. Taddei.

R. Tincture of benzoin, one fl. drachm.

"tolu, twenty drops.
Rose water, one pint.

Mix. Giannini.
Both these are used as cosmetic washes.

#### Lotion for Burns.

R. Benzoin, six drachms.
Storax, four drachms.
Balsam tolu, two drachms.
Aloes, one drachm.
Alcohol, eight fl. ounces.

Make a tincture, to be used as a lotion for burns and scalds, before vesication has

### Tincture of Benzoin.

taken place.

R. Benzoin, six troyounces.
Alcohol, two pints.
Macerate for seven days, and filter.

U. S. Ph. Used as a stomachic, carminative, etc., in doses of ten to twenty drops; externally, diluted, as a cosmetic.

## Compound Tincture of Benzoin.

R. Benzoin, three troyounces.
Storax, two troyounces.
Balsam tolu, one troyounce.
Socotrine aloes, half a troyounce.
Alcohol, two pints.

Macerate for seven days, and filter.

U.S. Ph.

The formula of Brit. Ph. closely resembles the above.

A stimulating expectorant, and also used as an application to indolent ulcers. Dose, twenty to sixty drops.

### Turlington's Balsam.

R. Benzoin, twelve ounces. four ounces. Liquid storax, Balsam of Peru, two ounces. Myrrh, Aloes, each, one ounce. Balsam of tolu, Extract of liquorice, four ounces. each, Angelica root, half an ounce. Alcohol, eight pints. Digest for ten days, and strain. Used as a Phil. Coll. Ph. vulnerary.

### BERBERIS.

### BARBERRY.

One species of this genus, B. vulgaris, has been employed in medicine. It is a native of Europe, but is naturalized in some parts of the United States.

Sex. Syst. Hexand. monog. Nat. Syst. Berberidaceæ.

Torrey and Gray, Fl. i. 49. Griffith, Med. Bot. 112.

The parts used are principally the berries, which are acidulous, and form a substitute for tamarinds, in the preparation of cooling drinks. The bark of the root is bitter and astringent, and is useful in the treatment of aphthous sore mouth, and was at one time much esteemed in the treatment of jaundice.

A bitter, crystallizable alkaloid, called berberina, has been obtained from the root. This is tonic in doses of two or three grains. The same alkaloid is found in many other plants, and is now principally obtained from hydrastis.

### Lemonade of Barberries.

R. Juice of berries, one part.
Sweetened water, fifteen parts.
Mix. As a refreshing drink in fevers.

Béral.

## Infusion of Barberry.

R. Barberry bark, one ounce.
Boiling water, one pint.

Macerate for two hours.

Used in jaundice. Dose, one fl. ounce.

Copland.

## BISMUTHUM.

BISMUTH.

The Brit. Ph. directs the metal to be purified by fusing it with one-fifth of its weight of saltpetre.

## BISMUTHI ET AMMONII CITRAS.

CITRATE OF BISMUTH AND AMMONIUM.

# Solution of Ammonio-citrate of Bismuth.

R. Powdered bismuth, four hundred and thirty grains.

Nitric acid, two fl. ounces.

Citric acid, two ounces.

Solution of ammonia,

Distilled water, each, sufficient. Mix the nitric acid with an ounce of the water, add the bismuth gradually, and when effervescence has ceased, heat for ten minutes nearly to ebullition. Decant and evaporate the solution to two fl. ounces, add the citric acid previously dissolved in four ounces of the water, and afterwards solution of ammonia in small quantities, until the precipitate formed is redissolved and the solution is neutral or slightly alkaline to test paper; then dilute with distilled water to the volume of one pint (twenty fl. ounces). One fl. drachm contains three grains of oxide of bismuth. Dose, half to one fl. drachm. Brit. Ph.

## BISMUTHI SUBCARBONAS.

SUBCARBONATE OF BISMUTH.

R. Bismuth, in pieces, two troyounces.

Dissolve in a mixture of four and a half troyounces of nitric acid and four fl. ounces of water, dilute the solution with ten fl. ounces of distilled water, and, after twenty-four hours, filter. Dilute the filtrate with four pints of distilled water, and add five fl. ounces of ammonia water diluted with an equal bulk of water. Collect the precipi-

tate, wash, drain, and dissolve it in four troyounces of nitric acid. Add the clear liquid to a solution of ten troyounces of carbonate of sodium in twelve fl. ounces of distilled water, drain, wash, and dry the precipitate.

U. S. Ph.

It is tasteless, and readily soluble in acids with effervescence. Used as a tonic in gastric and intestinal affections. Dose, ten to

sixty grains daily in divided doses.

## Pills of Subcarbonate of Bismuth.

R. Subcarbonate of

bismuth, two scruples.
Confection of roses, sufficient.
Mix and make twenty pills. One after each meal, in dyspepsia and sick headache.
Hammond.

## BISMUTHI SUBNITRAS.

SUBNITRATE OF BISMUTH.

R. Bismuth, in pieces, two troyounces.

Nitric acid,
Carbonate of sodium,
each, ten troyounces.
Water of ammonia, six
fl. ounces.
Distilled water, sufficient.

Proceed by the process for subcarbonate of bismuth, omitting the first precipitation by water and ammonia. Dissolve the washed carbonate in five and a half troyounces of nitric acid, add four fl. ounces of water, and after twenty-four hours, filter. Dilute the filtrate with four pints of distilled water, slowly add the water of ammonia with constant stirring; collect, wash, and dry the precipitate.

U.S. Ph.

Used as a tonic and antispasmodic, especially in certain painful affections of the stomach. Dose, five grains, twice or thrice a day, gradually increasing the quantity.

## Compound Bismuth Powder.

R. Subnitrate of bismuth, twelve grains.

Powdered ipecacuanha, two grains.

Carbonate of magnesium, two drachms.

Mix, and form twelve powders. One, two or three times a day, in gastrodynia.

Clarus.

R. Subnitrate of bismuth, eight grains.

Opium, one grain.

Sugar, two drachms.

Mix. and form four powders.

Ammon.

Mix, and form four powders. Ammon.

Much praised by the author in cholera;
one powder to be taken every two hours.

## Powders of Subnitrate of Bismuth.

R. Subnitrate of bismuth, three to six grains.

Sugar, ten grains.

Make six powders. Place one powder on the tongue of a child (one year old), three or four times daily. Used in the diarrhœa of children.

Trousseau.

## Pills of Subnitrate of Bismuth.

R. Subnitrate of bismuth, one drm.

Mucilage of gum Arabic, sufficient.

Mix, and make thirty pills. One to be given every two hours, in dyspepsia.

Elli

### Troches of Subnitrate of Bismuth.

R. Subnitrate of bismuth, one part.
Sugar, nine parts.
Mix, form a mass with mucilage of tragacanth, and divide into troches of fifteen grains each.

Paris Codex.

# Compound Troches of Subnitrate of Bismuth.

R. Subnitrate of bismuth,
fourteen hundred and forty grs.
Carbonate of magnesium, four
ounces avoir.
Precipitated carbonate of
calcium, six ounces avoir.
Refined sugar, twenty-nine

Gum Arabic, in powder, one ounce avoir.

Mucilage of gum Arabic, two

Rose water, fl. ounces.

Rose water, sufficient.

Mix the dry ingredients, add the mucilage,

form a mass with rose water, and divide into seven hundred and twenty lozenges.

Dose, one to six. These are the bismuth lozenges of the Brit. Ph.

### Lotion of Subnitrate of Bismuth.

R. Subnitrate of bismuth, twenty grains.

Glycerin, one fl. ounce.

Rose water, six fl. ounces.

Mix. In erythematous conditions of the tongue.

Symonds.

### Glycerite of Bismuth.

R. Subnitrate of bismuth, Glycerin, each, equal parts.

Mix. Applied to the inflamed surface in chronic granular conjunctivitis and in ble-pharitis.

Follin.

R. Subnitrate of bismuth, one drachm.

Glycerin, three drachms.

Mix. Applied to fissures of the anus and to chapped nipples, etc. Trousseau.

## Subnitrate of Bismuth Ointment.

R. Subnitrate of bismuth, one part.

Lard, three parts.

Rub well together. Said to be useful in psora, and other cutaneous eruptions.

Kerksiq.

### Ointment of Tannin and Bismuth.

R. Yellow wax, strained, one troyounce.
Linseed oil, three troyounces.
Melt together, stir, and add

Tannic acid, one drachm. Subnitrate of bismuth, twenty grains.

Mix thoroughly. Recommended as an application to burns. Binkerd.

## BISMUTHI TANNAS.

TANNATE OF BISMUTH.

R. Crystallized nitrate of
bismuth, eleven drachms.

Dissolve in water with the aid of a little
nitric acid, and pour the solution gradually
into an excess of caustic soda solution, wash

Tannic acid, five drachms.

Wash the product upon a strainer with wa-

ter and dry it with a gentle heat. Dorvault.

A yellowish insoluble and tasteless powder; given in diarrhea in doses of ten to thirty grains; it is readily suspended in mucilage or syrup.

## BISMUTHI VALERIANAS.

VALERIANATE OF BISMUTH.

R. Subnitrate of bismuth,

thirty-two parts.

Form a thin pulp with sufficient distilled water, and add solution of

Carbonate of sodium, twelve parts.

Distilled water, thirty parts.

Valerianic acid, nine parts.

Agitate the mixture at a moderate heat, for an hour, cool, collect the precipitate upon a filter, wash with cold water, and dry.

Ph. Germ. A white insoluble powder, having the odor of valerianic acid. Dose, one to five

## BISTORTA.

### BISTORT.

This is the root of the Polygonum Bistorta, a native of Europe, and also found in the northern parts of this country, growing in wet situations.

Sex. Syst. Octand. trigyn. Nat. Syst. Poly-

gonaceæ.

Linn. Sp. Pl. 516. Lindley, Fl. Med. 361. The part employed is the root; this is bitter and austere, especially in a fresh state. It is a powerful astringent, but is seldom used in this country. The dose of the powder is twenty or thirty grains, three or four times a day.

### Infusion of Bistort.

R. Bistort. one ounce. Boiling water, two pints. Infuse for two hours, and strain. Recommended in passive hemorrhages. Radius.

## Astringent Clyster.

R. Bistort, one ounce. Poppy heads, two drachms. Water. one pint. Infuse, and strain. As an injection, in diarrhœa and chronic dysentery.

Guibourt.

### Extract of Bistort.

R. Powdered bistort, one pound. Water, sufficient. Exhaust by the process of displacement, and evaporate the filtered fluid.

Pharm. Hosp. Mil.

### Mixture of Bistort.

R. Powdered bistort, two drachms. Syrup of quince, one ounce. Rub together, and add

Tincture of catechu. fl. drachms. Water, A spoonful every hour, shaking the bottle

atonic mucous discharges.

## BOLETUS LARICIS.

## WHITE AGARIC.

A parasitic fungus growing on the trunk of the larch, in many parts of Europe. It is destitute of smell, but the taste, at first vapid and farinaceous, becomes bitter, acrid, and nauseous. Formerly much used as a purgative, in doses of half a drachm to a drachm. It has lately been thought to be very efficacious in arresting the colliquative sweats in phthisis.

## Powder of Agaric.

R. Powdered agaric, twelve grains. White sugar, two drachms. Mix well, and divide into six powders. One to be given at night, against colliquative Radius. sweats.

## Powder of Agaric and Opium.

R. Powdered agaric, eighteen grains. three grains. opium, gum Arabic, drachms.

Mix, and divide into nine powders. One to be given at night, against colliquative sweats. ,

## Pills of Agaric and Opium.

R. Powdered agaric, fifteen grains. Extract of opium, two grains and a half.

Mix, and form six pills. One or two at bedtime, in same cases as above noticed.

Rayer.

## BRAYERA ANTHELMINTICA.

## Cusso. Kousso.

Kousso is the flowering tops, intermixed with some unripe fruit, of the Brayera Anthelmintica, an Abyssinian tree about twenty feet high.

Sex. Syst. Icosand. digyn. Nat. Syst. Ro-

Griffith, Med. Bot. 272.

The flowers are small, pale-greenish, or brownish-red, on hairy pedicels; taste fee-bly acrid, and unpleasant; the odor evolved by boiling is very fragrant. They are exclusively used for expelling the tapeworm. Dose, two to four drachms in the form of powder or infusion.

### Infusion of Kousso.

four fl. ounces. R. Flowers of kousso, half an ounce. Boiling water, eight fl. ounces. each time, in passive hemorrhages, and Macerate for fifteen minutes, without strain-Foy. ing. Brit. Ph.

A little lemon-juice to be swallowed, and the infusion being stirred up, the whole is taken, liquid and powder, at two or three draughts, at short intervals, being washed down with cold water and lemon-juice. To promote the operation, tea may be taken. In three or four hours, if the remedy has not operated, a dose of castor oil, or a saline purgative, should be administered.

Jon. Pereira.

# BROMINIUM.

# BROMINE.

This elementary substance has much analogy to iodine in its chemical characters, and resembles it somewhat in its action on the system. It is a dark red, volatile liquid, having a very caustic taste and a disagreeable odor, and being sparingly soluble in water. It has been employed in bronchocele, scrofula, chronic cutaneous diseases, and hypertrophy of the heart.

# Solution of Bromine.

R. Bromine, one part.
Distilled water, forty parts.

Mix. Dose, six drops several times a day, gradually increasing the dose. Pourché.

#### Alcoholic Solution of Bromine.

R. Bromine, ten drops.
Alcohol, one ounce.

Mix. As an external application. The strength to be increased five drops to the ounce, daily.

Fournet.

# Lotion of Bromine.

R. Bromine, twenty to thirty drops.

Water, one pint.

Mix. For scrofulous ulcers. Glover.

R. Bromine, eight drachms.
Bromide of potassium, three drachms.
Water, sufficient to make four fl. ounces.

Dissolve. As a local application in hospital gangrene, erysipelas, and sloughing sores.

Goldsmith.

#### Bromine Ointment.

R. Bromine, ten grains.

Bromide of potassium, twenty grains.

Lard, one ounce.

Mix. Magendie.

# BRUCIA.

#### BRUCINE.

R. Powdered false Angustura bark, at will.

Treat it three times with water, acidulated with muriatic acid, mix the liquids, evaporate, add milk of lime, wash the precipitate, dry, and treat it with alcohol; evaporate this, and combine the residue with sulphuric acid, dissolve the salt in water, treat with animal charcoal, crystallize, redissolve in water, and precipitate by means of ammonia.

Cottereau.

A highly poisonous alkaloid, obtained from the bark of the strychnos nux vomica, or false Angustura bark. It is white, very bitter, and readily soluble in alcohol, but with difficulty in water. Acts on the system like strychnia, but with less energy, and has been given in same class of diseases. Dose, one-quarter to half a grain.

# Pills of Brucia.

R. Brucia, twelve grains.

Conserve of roses, half a drachm.

Mix, and divide into twenty-four pills. One to be given morning and evening, gradually increasing the dose.

Foy.

# Solution of Brucia.

R. Brucia, six grains.
Distilled water, four fl. ounces.
Sugar, two drachms.
Mix. A tablespoonful, morning and evening.

Magendie.

#### Tincture of Brucia.

R. Brucia, eighteen grains.
Alcohol (0.847), one fl. ounce.
Dissolve. Six to twenty-four drops in some demulcent drink.

Soubeiran.

# BRUCIÆ ACETAS, MURIAS, ET SULPHAS.

ACETATE, MURIATE, AND SULPHATE OF BRUCIA.

These are all made by the same process, using for each the appropriate acids.

R. Brucia, at will.
Acetic acid, sufficient.

Put the brucia in a porcelain capsule on a water-bath; pour a small quantity of water on it, and then add the acid very gradually, constantly stirring till perfect saturation takes place; filter, evaporate to one-half, and then crystallize.

Cottereau.

Used for the same purposes as the pure

Magendie. alkaloid, and in like doses.

## BRYONIA.

# BRYONY.

The roots of two species of bryony are used in medicine, the B. alba, and B. dioica, the first in England, the latter in other parts of Europe; but are identical in their sensible properties and action on the system.

Sex. Syst. Monœc. syngen. Nat. Syst. Cu-

curbitaceæ.

Linn. Sp. Pl. 621. Griffith, Med. Bot.

311.

The part used is the root; this is acrid and purgative, causing copious, watery stools, in doses of ten grains to two scruples. It has also some reputation as a cataplasm.

# Cataplasm of Bryony.

R. Juice of bryony root,

Crumb of bread, each, sufficient to form a cataplasm. Used as an application to engorged glands of the neck.

Barthez.

# Compound Cataplasm of Bryony.

R. Rasped bryony root, three ounces.

Elder flowers, one ounce.
Ammoniac, half an ounce.
Chloride of ammonium, two drms.
Conium leaves, two ounces.
Vinegar, sufficient.
Mix, and heat. An application to scrofulous tumors.

Plenck.

#### Wine of Bryony.

R. Bryony root, one ounce. White wine, one pint. Boil gently, and filter. To be taken in wineglassfuls, in dropsies. Hufeland.

## BUCHU.

#### BUCHU.

Buchu consists of the leaves of several species of *Diosma*, or more properly *Barosma*, especially of *B. betulina*, crenata, crenulata, and serratifolia. They are small shrubs, natives of the Cape of Good Hope.

Sex. Syst. Pentand. monog. Nat. Syst.

Rutaceæ.

Linn. Sp. Pl. (Diosma) 287. Griffith,

Med. Bot. 191.

These leaves have a strong, somewhat aromatic odor, and a bitterish, aromatic taste. They are gently stimulant and diuretic, and are much used in diseases of the urinary organs, and also in some other complaints. The dose, in substance, is from twenty to thirty grains.

# Infusion of Buchu.

R. Buchu leaves, one troyounce.
Boiling water, one pint.

Macerate for two hours, in a covered vessel, and strain.

U. S. Ph.

The infusion of Brit. Ph. is made from one ounce of leaves with twenty ounces of

boiling water.

The dose is from one to two fluidounces.

# Compound Infusion of Buchu.

R. Buchu leaves,

Uva ursi, each, Boiling water, half an ounce. eight fl. ounces.

Digest for half an hour, strain, and add

Syrup of seneka, half a fl. ounce.

One or two spoonfuls every two hours, in atony of the bladder, and mucous discharges.

Radius.

#### Tincture of Buchu.

R. Buchu leaves, five ounces.
Proof spirit, two pints (imp.).
Macerate and displace. Brit. Ph.
Dose, from one to four fl. drachms.

#### Extract of Buchu.

R. Buchu, in coarse powder, one pound. four fl. ounces. Ether, Alcohol. twelve fl. ounces. Displace without maceration, add diluted alcohol until a pint of ethero-alcoholic tincture is obtained; suffer this to evaporate spotaneously; treat the residue in the displacer, with diluted alcohol, till two pints are obtained; evaporate to a syrup; add the product of the first tincture, and with a gentle heat concentrate to the proper consistence. W. Procter.

#### Fluid Extract of Buchu.

R. Buchu, in powder,

No. 50, sixteen troyounces.
Alcohol, sixteen fl. ounces.

Moisten the powder with six fl. ounces of the alcohol, pack firmly in a percolator, add the remaining ten fl. ounces, and macerate for four days; then, with alcohol, displace twenty-four fl. ounces, reserving the first fourteen, evaporate the remaining tincture to two fl. ounces, and mix with the reserved portion.

U. S. Ph.

Dose, twenty to thirty minims.

# BUXUS.

#### Box.

The box is a shrub or small tree, native of the south of Europe, but now generally cultivated in this country.

Sex. Syst. Monœc. triand. Nat. Syst. Eu-

phorbiaceæ.

The parts used are the wood and leaves. The first is sudorific and possesses somewhat the properties of guaiacum; the latter are purgative, but neither are now used. The

following preparation, however, has obtained some celebrity in the cure of gonor-rhœa and in epilepsy.

#### Oil of Box.

R. Rasped box-wood, sufficient.

Distil, separate the oil, and rectify it.

Dose, four to five drops, three times a day. Wirtemberg Ph.

C.

# CACAO.

# CACAO. CHOCOLATE NUTS.

These are the seeds of *Theobroma Cacao*, a small tree, indigenous to South America. They are also produced from some other sources.

Sex. Syst. Polyadelph. pentand. Nat. Syst. Byttneriaceæ.

Linn. Sp. Pl. 1100. Lindley, Flor. Med.

138.

The nuts are of an almond shape, and consist of a brownish, sweetish, somewhat oleaginous substance, covered by a leathery-like shell. They are principally used as an article of food, but are also employed in medicine.

# Compound Cacao Powders. Palamoud.

R. Roasted cacao, half a pound.
Rice flour,
Potato starch, each, two pounds.
Red saunders, powdered,

one ounce.

Mix. A drachm to an ounce, boiled in water, as a restorative diet. Soubeiran.

#### Racahout des Arabes.

R. Roasted cacao,
Potato starch,
Powdered salep,
Sugar,
Vanilla,

two ounces.
five ounces.
one ounce.
eight ounces.
sufficient.

Mix. Two or three spoonfuls boiled with eight fl. ounces of water, form a nutritious diet for the convalescent. Foy.

#### Wakaka des Indes.

R. Roasted cacao, two ounces.
Sugar, five ounces and a half.
Powdered cinnamon, two drachms.

'' vanilla, thirty-six grs.

Ambergris, three grains.
Musk, one grain and a half.
Mix. Half a drachm, boiled with milk or
water. More stimulating than the last.
Guibourt.

# Simple Chocolate.

R. Caracas cacao,

Para cacao,

each, three hundred parts.
Powdered sugar, five hundred parts.

" cinnamon, three parts.

Remove the shells and clean the cacao carefully; pound the seeds in a hot mortar until reduced to a paste, and gradually mix the sugar and cinnamon with it. Pour the mass upon a hot slab, and work it with a roller or mallet into a uniform paste, which is transferred into moulds and cooled.

Paris Codex.

# Compound Cacao Paste Chocolate. Vanilla Chocolate.

R. Cacao paste, six pounds.
Sugar, ten pounds.
Vanilla, eleven drachms.
Triturate thoroughly together, and form cakes.

Cottereau.

#### Aromatic Chocolate.

R. Cacao,
Sugar, each,
Powdered cinnamon, half an ounce.
Cloves,
Cardamom,
Vanilla, each,
one drachm.

Triturate together, and form cakes.

Weiglebt.

# Salep Chocolate.

R. Simple chocolate,

one hundred parts.
Powdered salep, three parts.

Triturate together, with the aid of heat, and form into cakes. Paris Codex.

# White Chocolate.

R. Sugar, six pounds. Rice flour, one pound, twelve

Potato starch, eight ounces.
Gum Arabic, four ounces.
Tincture of vanilla, half fl. ounce.
Butter of cacao,
Boiling water, sufficient.

Triturate well, into a stiff paste.

These afford a good article of diet, for convalescents and debilitated persons, when boiled with water or milk. The last is the least stimulating.

#### Chocolate Cream.

R. Boiling milk, sixteen parts.
Sugar,
Yolk of egg, each,
Ground cacao, one part.
Mix, and boil gently.

Sixteen parts.
two parts.
one part.
Béral.

#### Butter or Oil of Cacao.

R. Cacao, roasted, at will. Reduce to a paste in a warm iron mortar, triturate on a stone slab, add a fifth part boiling water, place in a bag, and express between two heated metal plates; melt the product, and, on cooling, separate the water. Used for making suppositories. Guibourt.

#### Butter of Cacao Mixture.

R. Butter of cacao, three ounces.
Oil of almonds, one ounce and six drachms.
Syrup of red poppies, one ounce.
Orange-flower water,

four drachms.

Mix. As a soothing demulcent in catarrh.
In spoonful doses.

Cadet.

#### Butter of Cacao Ointment.

R. Butter of cacao,
Oil of almonds,
Melt over a water-bath.

Guibourt.

## CADMIUM.

# CADMIUM.

A soft, crystallizable, ductile, volatilizable metal, not used in medicine in its metallic state, but affording the following remedial salts.

In its general effects, cadmium resembles the corresponding zinc salts, but is regarded to be about ten times more powerful.

# CADMII IODIDUM.

## IODIDE OF CADMIUM.

It is formed by the direct combination of iodine with the metal in the presence of water, and forms crystalline scales, having a pearly white lustre. It is used externally in place of iodide of lead, the yellow color of which is sometimes objectionable.

# Ointment of Iodide of Cadmium.

R. Iodide of cadmium, sixty-two grains.
Simple ointment, one ounce.
Mix thoroughly. Brit. Ph.

# CADMII SULPHAS.

SULPHATE OF CADMIUM.

R. Cadmium, eight drachms.

Nitric acid,
Distilled water,
each, sixteen drachms.

each, sixteen drachms.

Dissolve with the aid of heat, filter, and precipitate with an aqueous solution of

Carbonate of

sodium, twenty-four drachms.

Wash the precipitate, and dissolve in

Sulphuric acid, seven drachms. Water, thirty drachms.

Evaporate to one-third and crystallize.

Used in solution and ointment, as an application in chronic ophthalmia.

# Solution of Sulphate of Cadmium.

R. Sulphate of cadmium,

Laudanum, twenty drops.
Rose water, four fl. ounces.
Mix. As a wash in chronic ophthalmia.

R. Sulphate of cadmium, eight grains.
Water, one fl. ounce.

Dissolve. Used as a wash in otorrhea.

Lincke.

Ointment of Sulphate of Cadium.

R. Sulphate of cadmium, one or two grains.

Lard, one drachm.

Niv. As an application in spots on the

Mix. As an application in spots on the cornea. Radius.

#### CAHINCA.

#### CAHINCA.

This is the root of Chiococca anguifuga, a shrub growing in Brazil. Its effects are those of a diuretic, and it has chiefly been employed in dropsical diseases. Dose, twenty to forty grains.

#### Extract of Cahinca.

R. Powdered cahinca, one part.
Diluted alcohol, seven parts.

Macerate twelve hours, then introduce into a displacer, exhaust, and evaporate to consistence of an extract.

Dose, ten to twenty grains.

#### Decoction of Cahinca.

R. Bruised cahinca, two drachms.
Water, one pint and a half.
Boil to one-half, and strain.

Dose, a tablespoonful. Von Langsdorff.

# CALAMINA.

#### CALAMINE.

This is a native impure carbonate of zinc, found in large quantities in England and Germany. The pure carbonate will be described under the head of Zinc; it is now almost exclusively employed in place of calamine.

# Prepared Calamine.

R. Calamine, at will.

Heat to redness and pulverize; then reduce to a very fine powder, as directed for prepared chalk.

U. S. Ph. 1850.

Used externally, as a mild astringent and absorbent, to excoriations and ulcerations, and also as an ingredient of cerates, etc.

#### Calamine Cerate. (Turner's Cerate.)

R. Prepared calamine, Yellow wax, each, three ounces. Lard, one pound. Melt the wax and lard, and as they thicken, stir in the calamine.

This cerate is much used for excoriations, ulcerations, etc.

# CALAMUS.

#### CALAMUS.

This is the rhizome of Acorus Calamus, an indigenous plant found in most parts of the United States, in wet situations. It also grows in Europe and Asia.

Sex. Syst. Hexand. monog. Nat. Syst.

Orontiaceæ.

Linn. Sp. Pl. 462. Griffith, Med. Bot. 620. The part employed is the root; this has a fragrant odor, and a warm, bitterish, aromatic taste. It is a stimulant tonic, and aromatic. The dose, in substance, is from a scruple to a drachm.

# Electuary of Calamus.

R. Powdered calamus,
two drachms and a half.
Powdered valerian,
one drachm and a half.
Syrup of orange peel, two ounces.
Mix. A teaspoonful every two hours.
Shubarth.

#### Infusion of Calamus.

R. Calamus, one ounce.
Boiling water, one pint.
Infuse for a quarter of an hour, and strain.
Dose, a wineglassful or more.

# Compound Infusion of Calamus.

R. Calamus, ten drachms.
Boiling water, one pint.
Infuse and strain, then add
Peppermint water, two fl. ounces.
Muriatic ether, one drachm and a half.
Syrup, one ounce.
Mix. Dose, a tablespoonful, in disordered digestion.

Augustin.

#### Tincture of Calamus.

R. Calamus, bruised, one part.
Alcohol (0.892) five parts.

Macerate for eight days, and filter.

Ph. Germ.

# Compound Tincture of Calamus.

R. Contused calamus,

ginger, each,

" coriander, one ounce.

Alcohol, two pints and a half.

Macerate for four days, and filter. Dose, forty to fifty drops as a stomachic and carminative.

Niemann.

R. Contused calamus,

" gentian,

" geum, three ounces. two ounces and a half.

" angelica, one ounce and a half.

" ginger, half an ounce.
" two ounces.

Alcohol, twelve pints.

Macerate for six days, and filter. A teaspoonful in wine.

Tromsdorff.

#### Fluid Extract of Calamus.

R. Powdered calamus, sixteen troyounces.

Stronger alcohol, sufficient.

Pack the powder, moistened with four fl.
ounces of the alcohol, in a percolator, add

twelve fl. ounces of alcohol, and macerate for four days; then displace twenty-four fl. ounces, reserving the first fourteen, evaporate the remainder to two fl. ounces and mix with reserved portion.

#### Extract of Calamus.

Exhaust calamus with diluted alcohol and evaporate to the proper consistence.

Ph. Germ.

Dose, five to ten grains.

# CALCIUM.

# CALCII BROMIDUM.

## BROMIDE OF CALCIUM.

It is prepared by neutralizing hydrobromic acid with pure carbonate of calcium, filtering, and evaporating. Recommended in insomnia, delirium tremens, and other nervous disorders. Dose, ten to thirty grains, in solution.

# Mixture of Bromide and Lactophosphate of Calcium.

R. Bromide of

calcium, one troyounce.

Syrup of lactophosphate

of calcium, four fl. ounces.

Dissolve. Dose, a teaspoonful three times a day, in a little water.

W. A. Hammond.

# CALCII CARBONAS.

CARBONATE OF CALCIUM.

# Precipitated Carbonate of Calcium.

R. Solution of chloride

of calcium, five pints and a half.

Carbonate of sodium,

seventy-two troyounces

dissolved in six pints of distilled water.

Mix while hot. Wash the precipitate three times, and dry.

U.S. Ph.

# Prepared Chalk.

R. Chalk, at will.

Add a little water, and rub to fine powder. Throw into a vessel of water, and stir; pour off liquid while yet turbid, into another vessel, and permit chalk to subside; pour off water, and dry the precipitate.

U. S. Ph

#### Prepared Oyster Shell.

R. Oyster shell,

at will.

Free it from extraneous matter, wash with boiling water, reduce to powder, and proceed as with chalk.

U. S. Ph.

As an antacid in bowel affections. In doses of from ten to forty or more grains, often repeated.

in repeated.

#### Aromatic Powder of Chalk.

- R. Prepared chalk, eleven ounces.
  Powdered sugar, twenty-five ounces.
  - " cardamom, one ounce.
  - " cloves, one ounce and a half.
  - " nutmeg,
  - " saffron,

each, three ounces.

" cinnamon, four ounces,

Mix well and pass through a fine sieve.

Brit. Ph

Stimulant, astringent, and antacid; useful in diarrhœa, with acidity, but without inflammation. Dose, ten to sixty grains.

# Compound Powder of Chalk with Opium.

R. Aromatic powder of chalk, nine ounces and three-quarters.

Powdered opium, a quarter ounce.

Mix well. Brit. Ph.

In diarrhea of adults, in doses of ten to

forty grains, after each evacuation.

# Dentifrice Powder with Carbonate of Calcium.

R. Powdered cuttlefish bone,
Peruvian bark,
myrrh,
equal
parts.

Mix. Pierquin.

R. Prepared chalk,
Carbonate of magnesium,
Powdered cinchona,
Essence of mint,
One parts.

Mix.

Paris Codex.

Lozenges of Chalk.

R. Prepared chalk, four troyounces.

Gum Arabic, powdered, one
troyounce.

Nutmeg, powdered, one drachm.
Sugar, "six troyounces.

Rub together till mixed; mix with sufficient water to form mass; divide into four hundred and eighty lozenges. U. S. Ph.

As a mild antacid astringent, in diarrhœa.

#### Dentifrice Electuary.

R. Powdered red coral, four ounces. cuttlefish bone, one ounce. 66 cinnamon, one ounce. 66 half an cochineal, ounce. half a drachm. alum, Oil of cloves, six drops. ten ounces. Honey, Mix. Taddei.

#### Chalk Mixture.

R. Prepared chalk, half an ounce.
Glycerin, half a fl. ounce.
Powdered gum Arabic, two
drachms.

Cinnamon water,
Water, each, four fl. ounces.
Rub them together until thoroughly mixed.
Ü. S. Ph.
A tablespoonful, as may be required.

R. Prepared chalk, one drachm and a half.

White sugar,
Gum Arabic, each,
Oil of cinnamon,
Tincture of opium, forty to fifty drops.
Distilled water, four fl. ounces.

Mix. A tablespoonful, every two hours, in diarrhœa and dysentery.

Ellis.

#### Compound Chalk Mixture.

R. Chalk mixture, five fl. ounces.
Aromatic confection, one drachm.
Solution carbonate
ammonium, one fl. drachm.
Laudanum, twenty minims.
Mix. A tablespoonful, occasionally, in diarrhea.

Ainslie.

# CALCII CHLORIDUM.

CHLORIDE OF CALCIUM.

R. Chalk, five ounces.

Muriatic acid,
Water, each, ten fl. ounces.

Mix the acid and water, and gradually add the chalk. When all action ceases, filter, and evaporate to dryness. Fuse, and pour out on a stone slab; when cool, break in fragments, and preserve in well-stopped

# Cataplasm of Chloride of Calcium.

bottles.

Lond. Ph. 1836.

R. Chloride of calcium,

soda,
each,
Water,
Linseed meal,
Make a cataplasm.
white swellings.

Koda,
half an ounce.
half a pint.
sufficient.
Sufficient.

#### Solution of Chloride of Calcium.

R. Marble, in small pieces, six troyounces.

Muriatic acid, twelve troyounces.

Distilled water, half a pint.

Mix the liquids, add the marble gradually, apply a gentle heat, decant, and evaporate to dryness. Dissolve the residue in one and a half times its weight of distilled water, and filter.

Dose, thirty drops two or three times

Dose, thirty drops two or three times a day, gradually increased; to be given in milk, or some demulcent Used in scrofula, goitre, tabes mesenterica, etc.

# Mixture of Chloride of Calcium.

R. Chloride of calcium, one drachm. Extract of henbane, ten grains. one ounce. Syrup of liquorice, six ounces. Water,

Mix. A spoonful four times a day in scro-Phæbus. fula.

R. Chloride of calcium, one drachm. Almond mixture, seven fl. ounces. Syrup of gum Arabic,

fl. ounce.

Gräfe.

Mix. A teaspoonful every three hours.

#### Pills of Chloride of Calcium.

R. Chloride of calcium, one drachm. Extract of opium, nine grains. Mucilage of gum

Arabic, sufficient.

Mix, and make fifty-four pills. One every two or three hours, in gonorrhœa, gradually increasing the dose, until eight, ten, or twelve are taken every hour.

# CALCII HYPOPHOSPHIS.

# Hypophosphite of Calcium.

It is prepared by boiling one part of phosphorus and four parts of burned lime in about fifty parts of water until combination has been effected, then filtering from the excess of lime, evaporating and purifying by recrystallization.

The hypophosphites of potassium, sodium, and ammonium are obtained by decom-posing the solution of the former with a so-

lution of the alkaline carbonate.

Hypophosphite of iron is obtained from any of the alkaline hypophosphites by precipitating with solution of tersulphate of

Hypophosphorous acid is made by accurately precipitating hypophosphite of calcium with oxalic acid.

These preparations are used as nervine tonics in phthisis, nervous debility, etc., in doses of two to fifteen grains.

# Syrup of Hypophosphites.

R. Hypophosphite of calcium, two hundred and fifty-six grs. Hypophosphite of sodium,

one hundred and ninety-two grs. Hypophosphite of potassium,

one hundred and twenty-eight grains.

Hypophosphite of iron, ninety-six grains. R. Lime, Hypophosphorous acid, sufficient.

twelve troyounces. Sugar, Fluid extract of vanilla, half

sufficient. Water,

Dissolve the iron salt in hypophosphorous acid, the other salts in six fl. ounces of water, mix and add water to make nine fl. ounces; in this dissolve the sugar and add the vanilla. Each fl. drachm contains about five grains of the hypophosphites.

# Solution of Hypophosphites.

R. Hypophosphite of calcium, Hypophosphite of potassium, four grains. Hypophosphite of sodium,

six grains. Glycerin, two fl. drachms. Water, one fl. ounce.

Dissolve. Dose, forty drops thrice daily in water, in remittent fevers of childhood.

Purdon.

# CALCII IODIDUM.

# IODIDE OF CALCIUM.

R. Iodide of iron, at will.

Precipitate with an excess of slaked lime, evaporate to dryness, dissolve in distilled water, filter, evaporate, and crystallize.

Magendie.

#### Pills of Iodide of Calcium.

R. Iodide of calcium, ten grains. Extract of savine, twelve grains. Mix, and divide into four pills. One every four hours. In amenorrhœa, with scrofula. Brera.

R. Iodide of calcium, ten grains. Extract of aconite, six grains. Mix, and divide into six pills. One every four hours. In chronic bronchitis and tubercular phthisis. Brera.

# CALCII OXIDUM.

# CALX. LIME.

R. Chalk, one pound. Break into small pieces, and calcine in a strong fire for an hour. Lond. Ph. 1836.

#### Lime Water.

four troyounces. Distilled water, one gallon.

and filter.

Slake the lime with a little of the water, add the remainder, stir well, and let stand for three hours. Keep in well-stopped bottles.

U. S. Ph.

# Compound Lime Water.

R. Rasped guaiacum wood, half a pound.

Contused liquorice root, one ounce.

Contused sassafras bark, half an ounce.

Contused coriander seeds, three drachms.

Lime water (wine meas.), six pints.

#### Saccharated Solution of Lime.

Macerate for two days in a closed vessel,

Dub. Ph. 1826.

R. Slaked lime, one ounce.
Refined sugar, two ounces.
Distilled water, twenty ounces.
Triturate lime and sugar together, transfer to a bottle containing the water, shake occasionally for a few hours, then separate the clear solution with a siphon. Its sp. gr. is 1.052. Dose, fifteen to sixty minims.

Brit. Ph.

## Lime Water and Carbonate of Potassium.

R. Carbonate of potassium, two drachms.

Lime water, two pints.

Dissolve. As an antilithic a wineglassful every two hours, in same quantity of new milk.

Ellis.

#### Lime Water and Milk.

R. Lime water,
New milk,
equal parts.
Mix. As an antacid, and to remove sickness of the stomach. Dose, one to two tablespoonfuls.

Ellis.

#### Antacid Mixture.

R. Lime water, four fl. ounces.
Solution of potassa,
Syrup of orange-peel,
each, one fl. ounce.
Mix. Dose, a spoonful in a cup of water.

Found useful in dyspepsia and heartburn.

Cooley

### Liniment of Lime.

R. Linseed oil,
Lime water,

Make a liniment. As an application to burns and scalds.

three fl. ounces.

six fl. ounces.

Ellis.

R. Lime water,

Linseed oil, equal measures.

Mix. Used like the preceding, under the name of Carron oil.

U. S. Ph. and Brit. Ph.

# Liniment of Lime Water and Alcohol.

R. Alcohol, two fl. ounces.
Lime water, half a pint.
Mix. In same cases as the last. Ellis.

# Liniment of Lime Water and Opium.

R. Lime water,
Linseed oil,
Laudanum,
equal parts.

Mix. In the same cases, and as an embrocation to allay pain.

Augustin.

#### Liniment for Sore Breasts.

R. Lime water,
Almond oil, each, three drachms.
Extract of opium, one grain.
Mix. The breasts are to be covered with lint dipped in this mixture.

Niemann.

# Liniment of Lime and Sulphur.

R. Lime,
Sulphur, each,
Olive oil,
Mix. As a friction in scabies. Giannini.

#### Lime Ointment.

R. Lime, one ounce.

Linseed oil, three ounces.

Mucilage of quince
seeds, two ounces.

Mix well. In burns and scalds. Radius.

R. Slaked lime, one drachm.
Carbonate of sodium, two drachms.
Extract of opium, ten grains.
Lard, two ounces.

Rub well together. In obstinate cutaneous affections. Biett.

ounce.

Laudanum, each, half a drachm.
Cucumber ointment, four drachms.
Rub well together. As an application to hemorrhoidal tumors.

Guibourt.

R Lime. Sulphur, each, two ounces. Chloride of sodium, one ounce. one pound. Lard, two pounds. Olive oil, Mix well. As a friction in itch.

Ferrara Ph.

# CALCII PHOSPHAS.

PHOSPHATE OF CALCIUM.

R. Bone, calcined to whiteness, four troyounces. in powder, Muriatic acid, eight troyounces. Water, sufficient.

Dissolve the bone in the acid and a pint of water, dilute with another pint of water, precipitate with excess of ammonia, add to the magma twice its bulk of boiling water, collect upon a strainer, wash well, and dry at a gentle heat. U. S. Ph.

Dose, ten to thirty grains.

R. Marble, twenty parts. Muriatic acid,

Distilled water, each, fifty parts. Digest for several hours, decant and add

Chlorinated lime, previously diffused in water. Digest for several hours, add water of ammonia until in slight excess, filter and precipitate by a solution of

Phosphate of sodium, fifty parts, In

Distilled water.

three hundred parts. Collect, wash, and dry the precipitate. Ph. Germ.

#### Burnt Hartshorn.

R. Burn pieces of hartshorn in an open vessel till quite white, and prepare them as directed for chalk.

Lond. Ph. 1836.

Has been thought efficacious in mollities ossium and rachitis, but probably inert. Dose, twenty grains, or more.

# Syrup of Phosphate of Calcium.

R. Phosphate of

calcium, one hundred and twenty-eight grains.

Glacial phosphoric

acid. half an ounce. Sugar, seven and a half ounces. four fl. ounces. Essence of lemon, twelve drops. ten grains.

Mix the phosphate with the water, and heat in a sand-bath, gradually adding the phosphoric acid. Add water enough to compensate for the evaporation, then dissolve the sugar, and when cold add the essence of lemon. Each teaspoonful contains two grains of phosphate and four grains of phosphoric acid. A. B. Durand.

# Syrup of Lactophosphate of Calcium.

R. Chloride of

calcium, one troyounce.

Phosphate of

sodium, four troyounces.

Concentrated lactic

acid, one troyounce.

Dissolve the salts separately in water, mix the solutions, wash the precipitate well, dissolve in the acid, and mix with sufficient syrup to make two pints and a half.

E. Chiles.

# Dentifrice Powder of Phosphate of Calcium.

R. Phosphate of calcium,

eighteen parts.

White bole. twelve parts. Gum lac, each Cinnamon, one part. Myrrh, two parts. Powder well, and mix. Van Mons.

# Dentifrice Electuary of Phosphate of Calcium.

R. Powdered phosphate of calcium,

two ounces and a half. 66 gum lac, one ounce.

cinnamon, one drachm

and a half.

cloves, one scruple. Syrup of lemon, sufficient. Make a soft electuary. Van Mons.

# CALCII SULPHURETUM.

SULPHURET OF CALCIUM.

R. Quicklime, seven parts. Sulphur, four parts. Pulverize, and heat for two hours in a covered crucible. Guibourt.

R. Quicklime, three parts. Sulphur, one part. Water, five parts.

Mix, and boil gently; evaporate to dryness, stirring. Keep in tight bottles. Codex. Stimulant and diaphoretic. Dose, five to

#### Compound Pills of Sulphuret of Calcium.

R. Sulphuret of calcium, one drachm. Powdered cinnamon, Extract of aconite, each,

fifteen grains. sufficient. mallows, Mix, and make sixty pills. Dose, four, three or four times a day, in gout and chronic rheumatism.

# Liniment of Sulphuret of Calcium.

R. Sulphuret of calcium, one ounce. Oil of juniper, two drachms. Dippel's animal oil, ten drops. Mix well. As an embrocation in gout.

Augustin.

# CALX CHLORINATA.

# CHLORINATED LIME.

It is obtained by passing chlorine gas over slaked lime, until it is saturated. It is de-siccant and disinfectant, and is also used to ill-conditioned ulcers, burns, chilblains, to some cutaneous affections, etc.

# Preservative Liquid.

R. Water, sixteen parts. Chlorinated lime, four parts. Alum, two parts. Nitre, one part.

Mix. Said to be very efficient for the preservation of anatomical preparations.

Reboulet.

# Lozenges of Chlorinated Lime.

R. Chlorinated lime, two drachms. eight ounces. Sugar, Starch, one ounce. Tragacanth. one drachm. Cochineal, three grains.

Rub well together, and make lozenges of three grains each. One to be taken three or four times a day, in cases of bad breath. Deschamps.

#### Solution of Chlorinated Lime.

R. Chlorinated lime, one pound. Distilled water, ten pounds. Triturate together and afterwards shake frequently for three hours; strain through Rub together. In indolent glandular tu-Brit. Ph. | mors. muslin.

### Cullutory of Chlorinated Lime.

R. Chlorinated lime, fifteen to thirty grains.

Mucilage of gum Arabic,

one fl. ounce.

Syrup of orange

peel, half fl. ounce.

Mix. To be applied by means of a piece of sponge or camel's-hair brush, to ulcers in the mouth. Angelot.

R. Chlorinated lime, three drachms. Distilled water, Alcohol, each, two fl. ounces. Oil of roses, four drops.

Dissolve, and filter. A teaspoonful in a glass of water, to correct fetid breath.

Chevallier.

#### Chlorinated Lime Dentifrice.

R. Chloride of lime, four grains. Powdered red coral, two drachms. A toothbrush, slightly wetted, to be dipped in this powder, and rubbed on the teeth. Magendie.

#### Compound Injection of Chlorinated Lime.

R. Chloride of lime, two drachms. Decoction of rhatany,

thirteen fl. ounces.

Dissolve, and filter. As an injection in ozena, three or four times a day.

Detmold.

#### Ointment of Chlorinated Lime.

R. Chlorinated lime, one drachm. one ounce. Lard, Rub together. In scrofulous swellings.

Cima.

R. Chlorinated lime, half a drachm. Lard. one ounce.

Rub together. In goitre. Werneck.

R. Chlorinated lime,

Borate of sodium, each, one drachm.

one ounce. Lard, Rub together thoroughly. In chilblains. Trusen.

one drachm. R. Chlorinated lime, Powdered digitalis, two drachms. two scruples. Vinegar, Lard, one ounce.

Phœbus.

## Liniment of Chlorinated Lime.

R. Chlorinated lime, half a drachm. Rub in a glass mortar, adding gradually,

Rose water, one fl. ounce. and when quite clear,

Oil of almonds, one fl. ounce. As an application in tinea capitis.

Trusen.

# CALENDULA.

# MARIGOLD.

This is the officinal name of Calendula officinalis, a plant indigenous to Europe, and often cultivated in gardens in this country as a pot herb.

Sex. Syst. Syngen. necess. Nat. Syst.

Asteraceæ.

Linn. Sp. Pl. 1304. Lindley, Flor. Med.

The parts used are the herb, flowers, and fruit. Their smell is peculiar, and somewhat aromatic; the taste is feebly bitter, and a little acrid. It was formerly much used, but had fallen into disuse, when, of late years, it has again been brought forward as a remedy in cancerous affections.

# Extract of Marigold.

R. Marigold, one part. Tepid water, four parts. Macerate for twenty-four hours, boil for a quarter of an hour, express, boil residue with four parts of water, express, mix two decoctions, and evaporate to proper consistence. Guibourt.

# Pills of the Extract of Marigold.

R. Extract of marigold, each, two cicuta. drachms. Subcarbonate of iron, Powdered marigold, one drachm and a half.

Mix well, and divide into pills of two grains each. Five or six are to be taken three times a day in scirrhous and cancerous affections. Rust.

## Lotion of Extract of Marigold.

R. Extract of marigold. cicuta, each, three drachms. Cherry-laurel water, two ounces. Tincture of opium, half an ounce.

Rust.

Infusion of Marigold.

R. Marigold flowers, three drachms. Boiling water, sufficient to obtain five ounces; infuse, and add to the strained liquid

Syrup of orange-peel, half an ounce.

Dose, two spoonfuls, three times a day. Radius.

# Liniment of Marigold.

R. Marigold flowers, three drachms. Water, five fl. ounces.

Boil to three ounces, strain, and add

Extract of marigold, one drachm. two ounces. Pyroligneous acid, half an ounce. Gum Arabic,

Mix. As an application to cancerous ulcers. Radius.

# CALOTROPIS.

#### MUDAR.

The Calotropis gigantea is a native of the East Indies, and is now naturalized in several of the West India Islands.

Sex. Syst. Pentand. monog. Nat. Syst.

Asclepiadaceæ.

Brown, Tr. Wern. Soc. 1, 29. Griffith,
Med. Bot. 456.

The part used is the bark of the root; this is of a whitish color, inodorous, but with a bitter, nauseous taste. It is purgative, alterative, and diaphoretic, and has been highly spoken of in the treatment of elephantiasis and lepra. Dose, three grains to thirty; in the latter dose it is emetic and purgative.

#### Infusion of Mudar.

R. Mudar, three drachms. Boiling water, eight ounces. Infuse, and strain. As an alterative, one to two fl. drachms; as an emetic, two fl. ounces. Cassanova.

## Pills of Mudar.

R. Powdered mudar, one drachm. Honey, sufficient. Beat into mass, and divide into pills of four grains. Two or three to be taken daily as an alterative in lepra, etc. Cassanova.

#### Oil of Mudar.

Mix. As a lotion to cancerous ulcerations. R. Powdered mudar, one drachm. Olive oil, seven ounces. Infuse for half an hour over a water-bath, and strain. As an application to leprous sores. Cassanova.

# CALUMBA.

#### COLUMBO.

Columbo is the root of Jateorrhiza palmata and calumba (Cocculus palmatus), a climbing plant, a native of Mozambique.

Sex. Syst. Diœc. hexand. Nat. Syst. Menispermaceæ.

Hooker, Bot. Mag. 2970-71. Griffith, Med. Bot. 103.

As found in the shops, the root is in round slices, externally of a brown, wrinkled appearance, internally yellow. It is somewhat aromatic, and has a very bitter taste. It is an excellent bitter tonic, with no astringency. It is useful in diseases where the pure bitters are required, and generally agrees with the stomach. Dose, in powder, is from ten to thirty grains.

#### Powder of Columbo and Iron.

B. Powdered columbo, Subcarbonate of iron, each, one Powdered rhubarb, drachm. ginger,

Mix, and make twelve powders; one to be taken every four hours. A. T. Thomson.

#### Powder of Columbo and Magnesia.

R. Powdered columbo, ten grains. Magnesia, two scruples. Mix for a dose. In cardialgia.

Brugnatelli.

#### Powder of Columbo and Tartrate of Iron.

R. Tartrate of iron and

potassium, two scruples. Powdered columbo, half a drachm. Mix, and divide into four powders. One every three or four hours, in syrup. Ellis.

#### Compound Pills of Columbo.

R. Powdered columbo, four scruples. Opium, four grains. Oil of peppermint, ten drops. Syrup of pinks, sufficient. Beat into mass, and form thirty pills. Two, three times a day, in spasmodic vom-St. Marie.

R. Powdered columbo, one drachm. "rhubarb, two scruples. Extract of chamomile, two

Oil of caraway, five drops. Syrup of saffron, sufficient. Form mass, and divide into pills of four grains. Four to be taken a day, in mania with amenorrhoea. Augustin.

#### Infusion of Columbo.

R. Colombo in powder,

half a troyounce. No. 40, Water, sufficient.

Moisten powder with two fl. drachms of water, pack, and percolate one pint. Heat infusion to the boiling point and strain when cold. Or macerate columbo in a pint of boiling water for two hours, and strain.

U. S. Ph.

R. Columbo, cut small, half an ounce (avoir.).

Cold distilled water, ten fl. ounces.

Macerate for an hour, and strain. Brit. Ph.

# Infusion of Columbo and Ginger.

R. Bruised columbo one ounce. two drachms. ginger, Boiling water, one pint. Infuse, and strain. A wineglassful cold, every two hours, in chronic diarrhœa.

Ellis.

#### Infusion of Columbo, Rhubarb, etc.

R. Bruised caraway, ) each, columbo, grains. rhubarb,

Boiling water, sufficient for three and a half fl. ounces.

Digest for two hours, strain, and add

Tincture of rhu-

one fl. drachm. Syrup of ginger, two fl. drachms. Mix. Dose, a teaspoonful to a tablespoonful, in diarrhœa.

# Mixture of Columbo.

R. Columbo, half a drachm. Boil in

three to five fl. ounces. Water, Strain, and add

Carbonate of potassium, ten grains. Lemon juice, three fl. drachms. Tincture of opium, twelve drops. Mix. A tea- to a tablespoonful, every hour, drachms. as an anti-emetic. Ellis.

# Compound Decoction of Columbo.

R. Columbo,

Quassia, each,
Orange-peel,
Rhubarb,
Carbonate of

two drachms.
one drachm.
one scruple.

potassium, half a drachm.
Water, twenty fl. ounces.

Boil down to a pint, strain, and add

Tincture of lavender, half fl. ounce.

Coxe.

# Fluid Extract of Columbo.

R. Columbo in powder,

No. 60,
Glycerin,
Alcohol,
sixteen troyounces.
two fl. ounces.
fourteen fl. ounces.

Moisten powder with four fl. ounces of the mixed siquids, pack in a percolator, add the remaining mixture, and macerate for four days; then with a mixture of two parts of alcohol and one of water displace twenty-four fl. ounces, reserving the first fourteen, evaporate the remainder to two fl. ounces, and mix with reserved portion. Dose, ten to thirty minims. U. S. Ph.

## Extract of Columbo.

R. Columbo cut small, one pound (avoir.).

Distilled water, four pints (imper.).

Macerate with half the water for twelve hours, strain and press; macerate as before with other half, strain and press, filter the liquors, and evaporate by means of a water bath to proper consistence. Dose, two to ten grains.

Brit. Ph.

R. Bruised columbo, one part.
Alcohol, sp. gr. 0.914, eight parts.

Macerate with six parts of alcohol for ten days and express; macerate residue with two parts of alcohol for three days; distil strained liquors, and evaporate to proper consistence. Paris Codex. The extract of Ph. Germ. is made with diluted alcohol.

#### Tincture of Columbo.

R. Columbo, bruised, four ounces.
Diluted alcohol, sufficient.
Obtain by percolation two pints of tincture.

U. S. Ph.

The tincture of *Brit. Ph.* is about the same strength, made by maceration with proof spirit sp. gr. 0.920.

Dose, one to four fl. drachms.

R. Columbo, bruised, one part.
Alcohol, sp. gr. 0.914, five parts.

Macerate for ten days, express, and filter.

Paris Codex.

Dose, half to two fl. drachms.

# Concentrated Tincture of Columbo.

R. Columbo in powder,

No. 60, sixteen troyounces.
Alcohol, sufficient.

Obtain, by slow displacement, two pints. Dose, half a teaspoonful.

Maryland Coll. Ph.

# Mixture of Columbo and Cascarilla.

R. Powdered columbo, half an ounce. Water, ten fl. ounces.

Boil to six ounces, add, towards close,

Cascarilla, two drachms.

Strain, and add

Tincture of orange-

peel, two drachms.
Syrup of cinnamon, one ounce.
A spoonful every hour, in chronic diarrhea.

Berends.

# Mixture of Columbo and Salep.

R. Extract of columbo, one drachm.

Decoction of salep, three ounces.

Fennel sugar, two scruples.

Mix. Two spoonfuls a day, in the diarrhea of children.

Wendt.

## CAMPHORA.

# CAMPHOR.

A peculiar white, crystallizable, semitransparent, volatile product of several plants; but that used in medicine is obtained from the Camphora officinarum, an evergreen tree, of considerable size, indigenous to China and other Asiatic countries. The volatile oil is likewise employed.

Sex. Syst. Enneand. monog. Nat. Syst. Lauraceæ.

Nees. Laurin. 88. Griffith, Med. Bot. 553. Camphor has narcotic, diaphoretic, sedative properties, and is employed in a variety of diseases, and used externally, as an anodyne. The dose is from three to ten grains. Camphor can be powdered by trituration with a few drops of alcohol.

#### Camphor Powder.

R. Camphor nine grains.
Sugar, one drachm.
Mix, and divide into nine powders.

Augustin.

# Compound Camphor Powder.

R. Powdered camphor,
Myrrh, each, two drachms.
Peruvian bark,
Chamomile, each, half an ounce.
Charcoal, one ounce.

Mix. Dose, two scruples, or more, in gangrene. Rust.

R. Powdered camphor,

Benzoic acid, each, six grains.
Sugar, one drachm.
Mix, and divide into four powders. As an antispasmodic and sedative. Saunders.

R. Powdered gum Arabic, one ounce.

" orange-peel,

" sugar, each, two drachms.

" camphor, ten grains.

" opium, five grains.

Mix. A teaspoonful every hour. Ammon. Said to have been useful in cholera.

# Camphor Pills.

B. Powdered camphor,
Sugar,
Starch,
Crumb of bread,

each, one
scruple.

Mix, and make twenty pills. Augustin.

#### Compound Camphor Pills.

R. Powdered camphor, twenty-four grains.

" musk, eight grains.
" opium, two grains.
Syrup, sufficient.

Beat into a mass, and divide into twelve pills. In hospital gangiene. Dupuytren.

# Pills of Camphor and Lactucarium.

R. Camphor,

Lactucarium, each, fifty grains.

Mix, and make twenty pills. Four to six daily, as an aphrodisiac.

Ricord.

#### Pills of Camphor and Musk.

R. Camphor, one scruple.

Musk, ten grains.

Ammoniac, two scruples.

Opium, four grains.

Mix, and divide into four grain pills.

Dose, four or five in a day, in nervous disorders.

Richard.

# Camphor Water.

R. Camphor, two drachms.
Alcohol, forty minims.
Carbonate of

magnesium, four drachms.
Distilled water, two pints.

Rub the camphor with the alcohol, then with the magnesia, and afterwards with the water gradually added, and filter.

U. S. Ph. Brit. Ph. directs to secure half an ounce of camphor inclosed in a muslin bag, at the bottom of a bottle containing ten pounds of water, and to pour off the solution as required.

Dose, one or two tablespoonfuls, to be

repeated as occasion may require.

# Camphor Water and Laudanum.

R. Camphor water, four fl. ounces.

Compound spirit of
lavender, two fl. drachms.

Tincture of opium, forty to fifty
drops.

Mix. A tablespoonful, every two hours, in diarrhœa and dysentery. Ellis.

# Camphor Water and Nitric Acid. (Hope's Mixture.)

R. Camphor water, four fl. ounces.
Nitric acid, four drops.
Tincture of

opium, forty to fifty drops.

Mix. In the same dose, and in the same complaints, as the last.

Ellis.

R. Nitrous acid, one fl. drachm.
Laudanum, forty drops.
Camphor water, eight fl. ounces.
Mix. Dose, one or two fl. ounces every three hours, in dysentery.

Hope.

# Camphor Water and Hoffmann's Anodyne.

R. Camphor water, ten fl. drachms.
Laudanum, forty drops.
Spirit of sulphuric
ether, one fl. drachm.

Syrup of poppies, one fl. drachm.

Mix. To prevent a paroxysm of intermittent fever. To be given just before its accession.

Gregory.

R. Camphor water, four fl. ounces. Hoffmann's anodyne, two fl. drachms. Mix. A dessertspoonful, every hour or two, in some demulcent drink. In nervous affections and sleeplessness in fevers. Ellis.

# Infusion of Camphor.

Boiling water, one ounce.
Boiling water, eight fl. ounces.
Pour the water on the camphor, let stand till cold, and keep in well-stopped bottle.
Dose, a tablespoonful, every hour or two, in nervous pervigilium and nervous irritability.

Ellis.

# Wine of Camphor.

R. Powdered gum Arabic,

Good white wine, forty-eight parts.

Triturate well together. Ph. Germ.

A turbid mixture. Dose, a teaspoonful to a tablespoonful.

# Camphor Mixture.

R. Powdered camphor, one drachm.

" gum Arabic,

white sugar, each,
one drachm and a half.
Tincture of opium, forty drops.
Mint water, four fl. ounces.

Mix. A tablespoonful every two hours, in low conditions of the system. Ellis.

R. Camphor water, three fl. ounces. Compound spirit of

lavender, one fl. ounce.
Sugar, one drachm.

Mix. Give a tablespoonful every two hours, in diarrhœa and cholera morbus, adding ten drops of laudanum, when there is much pain. This is the celebrated mixture of Dr. Jos. Parrish.

R. Powdered camphor, one scruple.

"gum Arabic, one drachm.

"sugar, sufficient.
Cinnamon water, one fl. ounce.
Mix. To relieve the pain in dysmenorrhœa.
One-half to be given as soon as pain is felt; if not relieved in an hour or two, the re-

mainder to be taken.

13

R. Powdered camphor, half a drachm.

"gum Arabic, two
drachms.

"sugar, three drachms.
Vinegar, half an ounce.
Water, six ounces.

Mix. As a stimulant. Phæbus.

Dewees.

# Emulsion of Camphor.

R. Camphor,

Olive oil, each, one drachm.

Powdered gum

Arabic, half an ounce. Water, four fl. ounces.

Triturate the camphor and oil together, until uniformly mixed; add the gum, and then the water gradually, triturating till the emulsion is formed.

W. Procter.

# Camphor and Milk.

B. Camphor, one drachm.
Boiling milk, four fl. ounces.
Dissolve. To be used as a stimulant.

Ellis.

# Camphor with Myrrh.

R. Powdered camphor, one drachm.

"myrrh, half a drachm.

sugar, two drachms.

Water, six fl. ounces.

Mix. A tablespoonful every two hours.

___ 00 50

# Spirit of Camphor.

R. Camphor, four ounces.

Alcohol two pints.

Dissolve. U. S. Ph.

Most other pharmacopæias direct one

part of camphor to nine parts of alcohol.

Chiefly used as an anodyne embrocation. Dose, ten to twenty drops.

# Tincture of Camphor and Saffron.

R. Camphor, one ounce.
Saffron, one scruple.
Alcohol, one pint.

Macerate for a day, and filter. Guibourt.
As a lotion, or fomentation.

# Ethereal Tincture of Camphor.

R. Camphor, one ounce.
Sulphuric ether, eight fl. ounces.
Dissolve. Swediaur.
Dose, twenty to thirty drops, in wine, as a stimulant and antispasmodic.

# Mixture of Tincture of Camphor.

R. Tincture of camphor,

drachms.
In ounce.
Mix. As a lotion, several times a day, to parts disposed to ulcerate by constant decubitus.

Tott.

Mixture of Camphor and Chloroform.

R. Camphor, one drachm. Chloroform, half a fl. drachm. Mix, and add

Yolk of egg, one.

Triturate, and add gradually

Water, six fl. ounces.

As a stimulant. Dose, two fl. drachms to Keating.

# Mixture of Camphor and Ether.

R. Camphor, one scruple.
Sulphuric ether, two drachms.
Dissolve, and add

Laudanum, twenty drops.
Cinnamon water, six ounces.
Mix. A spoonful every three or four hours as a stimulant.

Augustin.

# Lotion of Camphor.

R. Spirit of camphor, one part.
Sea salt, six parts.
Water, one hundred parts.
Officinal ammonia

water, twelve parts.

This is Raspail's Sedative Water, No. 1.

Paris Codex.

In No. 2 the ammonia water is increased to sixteen, and in No. 3 to twenty parts.

In cerebral congestions, rheumatic affections, etc.

## Camphor Liniment. (Camphorated Oil.)

R. Camphor, three troyounces.
Olive oil, twelve troyounces.
Dissolve the camphor in the oil. U. S. Ph.
Paris Codex and Ph. Germ. direct one
part of camphor to nine parts of the oil.
As an anodyne embrocation.

### Compound Camphor Liniment.

R. Camphor, two ounces and a half.
Stronger solution of
ammonia, five fl. ounces.
Oil of lavender, one fl. drachm.

Alcohol, fifteen fl. ounces.

Dissolve camphor and oil in alcohol, add

ammonia gradually, shaking until clear.

Brit. Ph.

A rubefacient and anodyne embrocation.

R. Camphor, one drachm.
Oil of chamomile,
Wine of opium, each, two drachms.
Oil of hyoscyamus, one ounce.
Mix.

Augustin.

# Liniment of Camphor and Vinegar.

one drachm.
a fl. drachm.

Acetic acid, one fl. drachm.

one.

Mix. As a lotion or embrocation. Ellis.

# Ethereal Camphor Liniment.

R. Soft soap,
Alcohol, each,
Dissolve and add

Camphor, half an ounce dissolved in

Sulphuric ether, one fl. ounce.
As an embrocation.

Saunders.

#### Ward's Essence for Headache.

R. Camphor, two ounces.
Rectified spirit, fourteen ounces.
Water of ammonia, two ounces.
Oil of lavender, half an ounce.
Mix. As an application to the forehead, etc., in headache.

Redwood.

# Camphor Water Mixture.

R. Camphor water,
Solution of acetate of
ammonium, each, half a fl. oz.
Antimonial wine,
Tincture of opium,
each, twenty drops.
Mix. To be taken at bedtime, as a stimulating diaphoretic.

Ellis

#### Camphor Clyster.

R. Camphor, one drachm. Olive oil, two ounces.

Mix. An excellent enema in cases of ascarides, to be used for three or four successive nights.

Ellis.

R. Common clyster, two pints.
Camphor, two drachms.
Yolk of egg, one.

Mix. A fourth part to be injected at a time. To be employed as occasion may require in low fevers. Chaussier.

# Camphorated Tooth Powder.

drachms. R. Prepared chalk, fifteen ounces. Powdered camphor, one ounce.

Augustin. Mix, and pass through a fine sieve. Cooley.

# Camphor Ointment.

R. White wax, one ounce. nine ounces. Lard,

Melt together, and add

Powdered camphor, three ounces. Mix. Paris Codex.

# Compound Camphor Ointment.

R. Lard, Suet. each. Oil of bayberries half an ounce.

Melt together, and add

Camphor, one drachm. Said to be efficacious as an application to chilblains. Radius.

R. Fresh butter, three drachms. two drachms. Spermaceti, White wax, three ounces.

Melt together, and add

Powdered camphor,

Oxide of zinc, each, three grains. To be applied in chronic inflammation of the eyelids, to the affected parts, at night. Maternite.

R. Camphor, one drachm. Basilicon ointment, one ounce. half an ounce. Powdered mustard, one scruple. Mix. As an external application in lumbago. Ferriar.

# Camphor Collyrium.

R. Camphor water, six fl. ounces. Solution acetate of two fl. ounces. ammonium, Mix. A mild astringent and stimulant in inflammation of the eyes.

# Liniment of Camphor and Turpentine.

R. Oil of turpentine, fifteen parts. Camphor, one part. Mix. As a stimulating embrocation.

Béral.

# Nitrate of Camphor.

R. Nitric acid, at will. Camphor, two hours, on sugar, or in syrup, in chronic mucilage and syrup.

pleurisy. Also used as a friction in rheumatism and palsy.

# Camphorated Cough Mixture.

half a scruple. R. Camphor, Mucilage of gum Arabic, three ounces. Syrup of mallows, one ounce and a half.

Mix. A tablespoonful every two hours. Saunders.

# CAMPHORA MONOBROMATA.

Monobromated Camphor.

R. Camphor, thirteen troyounces. Bromine, twelve troyounces.

Put the camphor into a quart retort, filling first its neck with some of the broken camphor; place the retort with its beak sufficiently elevated to return any liquid which may condense there back into the retort; lengthen the beak by connecting it with a glass tube two feet in length, bent down at its farther end, and by means of India-rubber and glass tubing made to dip into water, either pure or containing an alkali or a carbonate to combine with the hydrobromic acid which is evolved during the operation.

Add the bromine in four or five portions, using towards the last not over two ounces at a time; after each addition of bromine apply heat, just sufficient to start the reaction, remove the heat at once, let the reaction proceed spontaneously, and after-wards allow the retort to cool before more bromine is added. After all the bromine has been used, insert a thermometer, heat the retort very gradually to about 270°, let it cool to 130°, add gradually twelve ounces of petroleum benzin, and pour the solution into a beaker-glass containing some warm water and pieces of marble; stir occasion-ally while cooling, and after twelve hours collect the crystals upon a funnel, wash them, and afterwards recrystallize from benzin once or twice until the crystals are not colored brown on exposure to light and air. More crystals may be obtained from the mother liquors by evaporating the sol-vent, heating the residue gradually at 500°, and recrystallizing the black mass repeatedly from petroleum benzin.

It has a camphoraceous odor and taste, is volatile, insoluble in water, and freely soluble in alcohol and ether. It is a sedative to the nervous system, and given in hourly doses of two grains or more, until from twenty to sixty grains have been taken in twenty-four

Dose, in infantile convulsions, one grain; in hysteria and nervous headache, three or sufficient four grains; two or three doses usually afford to saturate. Decant. Ten drops every two hours, on sugar, or in syrup, in chronic mueilage and syrup.

relief. It is best given in the form of pill with conserve of roses, or suspended in mueilage and syrup.

# CANELLA.

#### CANELLA.

This is the bark of the Canella alba, a large tree, native of Jamaica and other West India islands.

Sex. Syst. Dodecand. monog. Nat. Syst.

Meliaceæ.

Swartz, Trans. Linn. Soc. 1. 96. Griffith, Med. Bot. 181.

The part used is the bark, which is of a pale orange-yellow color, with an aromatic odor, and a warm, bitterish, pungent taste. It is principally used as an adjuvant to other remedies. The dose, as a stimulant, is from ten grains to a scruple.

# Powder of Canella and Aloes.

R. Aloes, one pound. Canella, three ounces. Rub into a fine powder, and mix. This is much used in amenorrhœa. Dose, ten to twenty grains. U. S. Ph.

R. Powdered aloes, one drachm and a half.

> canella, eighteen grains. serpentaria, twelve grs.

Mix, and divide into six powders. Give one powder, every three hours, in syrup. This and the preceding are generally termed hiera picra.

#### Tincture of Hiera Picra.

R. Powder of aloes and

canella, one ounce and a half. Brandy, one pint.

Macerate ten days.

A popular and most efficient remedy in amenorrhœa. Dose, a teaspoonful.

Ellis.

# CANNABIS. HEMP.

The Cannabis sativa is an annual plant, a native of Asia, but generally cultivated in Europe and the United States. The East Indian plant is more powerful in its action on the system than that growing in more temperate climates, and is the kind most generally used in medicine. It is designated in the U.S. Ph. as Cannabis Indica, and the flowering tops of the same plant cultivated in this country are recognized under the name of Cannabis Americana.

Sex. Syst. Diœc. pentand. Nat. Syst. Can-

nabinaceæ.

Linn. Sp. Pl. 1457. Griffith, Med. Bot. 572. The parts used are the seeds, the leaves, with the flowering tops and portions of the stems; the latter are covered with a resinous exudation, which is narcotic and intoxicating. They have been recommended in a variety of diseases of a formidable character.

# Extract of Indian Hemp.

R. Dried Indian hemp, twelve troyounces.

Exhaust by percolation with alcohol, distil, and evaporate to the proper consistence.

U. S. Ph.

The extract of American hemp is prepared in the same manner. The other pharmacopæias direct maceration or digestion of the hemp tops in alcohol.

Has been given with success in tetanus, hydrophobia, cholera, etc. Dose, one to ten grains. To be increased as occasion may

require.

# Purified Extract of Hemp.

R. Commercial extract of

hemp, one ounce. Alcohol, four fl. ounces. Dissolve, let the dregs subside, decant and evaporate the clear solution on a waterbath, to the consistence of an extract. Dose, half a grain. U. S. Ph. 1860.

# Tincture of Hemp.

R. Extract of hemp, one ounce. Rectified spirit, (imp.) a pint. Dose, five to twenty minims, in neuralgia, Brit. Ph.

U. S. Ph. directs to dissolve six drachms of the extract in one pint of alcohol; Ph. Germ. dissolves one part of extract in nineteen parts of alcohol.

R. Indian hemp, one part. Alcohol, sufficient.

Obtain by percolation five parts of tincture. Paris Codex.

In tetanus, one drachm every half hour, till some effect is produced. In cholera, ten drops every half hour; in other diseases, every two hours. O'Shaughnessy.

#### Emulsion of Hemp-seed.

R. Hemp-seed, bruised, six drachms. Gum Arabic, one drachm. Parsley water, five fl. ounces. Rub together so as to form emulsion, strain,

Syrup of balsam of Peru, one ounce.

A spoonful every hour in gonorrhea.

Radius.

#### Resin of Hemp.

R. Dried hemp-tops, bruised, at will. Macerate several times in warm water, and then in a solution of carbonate of sodium; afterwards, wash well with water, pressing after each operation. Dry, and digest in rectified spirit, to which milk of lime, containing an ounce of lime to each pound of hemp-tops, has been added. Filter, add a slight excess of sulphuric acid; again filter, distil off most of the spirit, add to the residue three or four times its bulk of water, evaporate the rest of the spirit, decant the water, wash and dry. Dose, two-thirds of a grain.

Smith.

# CANTHARIS.

#### SPANISH FLY.

The Cantharis vesicatoria is an insect inhabiting those parts of Europe in which the vine grows naturally. It has a fetid odor and an acrid taste. The body is oblong, of a golden-green color. Spanish flies are stimulant, diuretic, rubefacient, and vesicant. They are used internally in dropsies, and in various disorders of the urinary organs; externally, to irritate or vesicate. Several species are natives of the United States, which are not inferior in their powers to the foreign insect. Cantharidin, their active principle, is soluble in ether, chloroform, the oils, and boiling alcohol. Dose of the flies, one to two grains.

#### Powder of Cantharides and Savine.

R. Powdered cantharides, two grains.

"savine, one drachm.

Mix, and divide into four powders. One to be taken at night as an emmenagogue, watching its effects closely.

Ellis.

#### Powder of Cantharides and Camphor.

B. Powdered cantharides,

four grains.

" camphor, eight grains.

Sugar of milk, three drachms.

Mix, and divide into eight powders, one to be given twice a day as a diuretic.

Augustin.

#### Pills of Cantharides and Camphor.

R. Powdered cantharides,

eighteen grains.

" opium,

" camphor, each, thirty-six grains.

Mix, and form into thirty-six pills. One to be taken at bedtime, in cases of impotency from general debility. Ellis.

#### Pills of Cantharides and Iron.

R. Powdered cantharides,

one scruple.

Subcarbonate of iron,

two scruples.

Extract of liquorice, one drachm. Form a mass, and divide into pills of one grain each. Dose, three or four, three times a day, gradually augmenting the dose. As a diuretic.

Meissner.

# Pills of Cantharides and Capsicum.

- R. Powdered cantharides, five grains.
  - ' capsicum, eight grains.
  - " camphor, one scruple.
  - " guaiacum, one drachm.

Tincture of colocynth, sufficient. Form mass, and divide into eighty pills. Dose, one, gradually increasing to four or five, twice a day, in paraplegia.

Sundelin.

#### Infusion of Cantharides.

B. Cantharides, one scruple.
Boiling water, sufficient
to obtain three ounces of infusion, after digesting for half an hour, and straining.

Soubeiran.

#### Acetic Infusion of Cantharides.

R. Powdered cantharides,

two ounces and a half.

Acetic acid, two pints.

Digest for fourteen days and filter. Recommended for blistering of the scalp without removing the hair.

Mettauer.

#### Emulsion of Cantharides.

R. Cantharides, one scruple.
Sweet almonds, six drachms.
Sugar, one ounce.

Beat together, and gradually rub up with

Lime water, ten ounces.

Strain. A spoonful every two or three hours in neuralgia, and in catarrh of the bladder

Rerends.

Hufeland's formula, recommended in hooping-cough, substitutes hot water for the lime water.

#### Emulsion of Oil of Cantharides.

R. Oleo-infusion of cantharides, one drachm and a half. Yolk of egg, one. Gum Arabic, two drachms. Honey, one troyounce.
Juniper water, three troyounces.

Make an emulsion. A spoonful, in dropsy, mania, etc. It is one of the most convenient preparations for the internal administration of cantharides.

Guibourt.

# Vinegar of Cantharides.

R. Powdered cantharides,

Glacial acetic acid, two fl. ounces.
Acetic acid, sufficient.

Add the glacial acetic acid to thirteen fl. ounces of acetic acid, and digest the cantharides in the mixture for two hours, at a temperature of 200°. When cool transfer to a percolator and percolate with 5 fl. ounces of acetic acid. Express residue, filter, add filtrate to percolate and enough acetic acid to obtain twenty fl. ounces.

As an epispastic, or as a rubefacient lotion.

#### Tincture of Cantharides.

R. Cantharides, bruised, one ounce. Diluted alcohol, sufficient. Obtain by displacement two pints of tincture, U. S. Ph.

A very convenient mode of administering cantharides. Dose, from ten to twenty drops. Also useful as a rubefacient. The tincture of the *Brit. Ph.* is less than half this strength.

R. Powdered cantharides, one part.
Alcohol, ten parts.

Macerate for eight days, express, and filter.

Paris Codex and Ph. Germ.

More than three times stronger than tincture of U. S. Ph. It is better adapted for liniments, hair washes, etc.

# Camphorated Tincture of Cantharides.

R. Tincture of cantharides,

Camphor, three drachms.
Alcohol, two ounces.

Mix. As a rubefacient. Pierquin.

# Compound Tincture of Cantharides.

R. Cantharides, one drachm.

Mustard,
Black pepper,
Camphor,
Garlic,
Vinegar,
Alcohol,
One drachm.

each,
half an ounce.
one bulb.
six ounces.
twelve ounces.

Macerate for some days, express, and filter. Said to be very effectual as a rubefacient lotion in rheumatism, etc. Foy.

R. Tincture of cantharides,
Extract of rosemary,
each, one drachm.
Solution of carbonate of potassium, one drachm and a half.
Water, four fl. ounces.

Mix. As a lotion to promote the growth of hair, where it has been lost from an eruption, or from fever.

Sachse.

#### Tincture of Cantharides and Guaiacum.

R. Powdered cantharides, one drachm. guaiacum, forty-five grains. Contused rhubarb, one drachm and a half. shell-lac, half a drachm. Alcohol. twelve fl. ounces. Digest, and strain. Dose, from thirty to fifty drops, night and morning, in some demulcent. In gleet. Ellis.

#### Ethereal Tincture of Cantharides.

R. Powdered cantharides, one part.
Acetic ether, ten parts.
Macerate for ten days, express, and filter.

Paris Codex.
As a rubefacient and vesicant lotion; it is very energetic.

R. Powdered cantharides,

three ounces.

Spirit of nitrous ether, two pints and a half.

Digest for eight days, and filter.
Used for the same purposes as the last.

Mettauer.

# Blistering Liquid.

R. Powdered cantharides, eight ounces.

Acetic acid, four fluidounces.
Ether, sufficient.

Mix cantharides and acid, pack in a percolator, macerate for twenty-four hours, and displace slowly with ether until twenty fluidounces are obtained.

Brit. Ph.

#### Cantharidal Ether.

six ounces. R. Powdered cantharides, one part.
Sulphuric ether, two parts.

Digest for three days, and express. The product is a green oil containing cantharidin, resin, and coloring matters. If the undiluted oil be brushed a few times over a part, it causes vesication. Oettinger.

# Camphorated Ethereal Tincture of Cantharides.

R. Powdered cantharides, one part.

Nitrate of camphor, three parts.

Alcohol, fifty-six parts.

Digest and express, and filter at the end of a few days. Advised in dropsy in dose of ten to twenty drops, in white wine. Van Mons.

#### Extract of Cantharides.

R. Powdered cantharides, one part.

Alcohol of 60 per cent., six parts.

Moisten the cantharides with alcohol, pack into a percolator, macerate for twelve hours, and pour on remainder of alcohol. Continue the displacement with water until the percolate commences to render the tincture turbid. Distil and evaporate to proper consistence.

Paris Codex.

#### Ethereal Extract of Cantharides.

R. Powered cantharides, at will.
Sulphuric ether, sufficient.
Treat the powder with the ether in a dis-

Treat the powder with the ether in a displacement funnel, properly arranged, until exhausted, and distil off the ether. Flies yield 8 per cent. of this extract. It is employed for increasing the activity of blistering plasters, and for admixture with wax to make blistering tissue-paper. Soubeiran.

#### Oleo-infusion of Cantharides.

R. Cantharides, in coarse

powder, one part. Olive oil, ten parts.

Digest for six hours on a water-bath, express, and filter. Paris Codex.

An active rubefacient and vesicant.

R. Cantharides, one part.
Oil of rosemary, eight parts.
Digest for fifteen days, express, and filter.
More active than the preceding. Béral.

R. Powdered cantharides, one part. Chloroform,

Castor oil, each, one and a half parts.

Mix, let stand in a close vessel for some hours, and then pass through a displacement apparatus.

This oil vesicates promptly, when applied to a part, and covered with oiled E. Dupuy. The blistering Paris Codex contains of cantharides.

## Liniment of Cantharides.

R. Powdered cantharides, one ounce.
Oil of turpentine, half a pint.
Digest for three hours over a water-bath, and strain.

U. S. Ph.

An active stimulant when applied to the skin; used with success in the low stages of typhus fevers. Requires caution in its use.

# Liniment of Cantharides and Camphor.

R. Camphor, three drachms.

Dissolve in

Liniment of cantharides, half fl. ounce.

Add

Strong mercurial ointment,

Simple ointment, each, one ounce.

Mix, and form liniment. In low stages of fever, where the object is to arouse the system, and to affect it with mercury, also as an application to tumors.

Ellis.

# Decoction of Cantharides in Turpentine.

R. Cantharides in powder, four ounces.

Oil of turpentine, twelve ounces. Mix in a flask, place this in a salt-bath, and heat for four hours; then dissolve with oil of turpentine until twelve fl. ounces are obtained. Similar to the officinal liniment, but much more powerful. Hartshorne.

# Liniment of Cantharides and Soap.

R. Tincture of cantharides, half an ounce.

Liquid ammonia, an ounce and a half.

Turpentine soap, two ounces.

Spirit of turpentine, one ounce.

" camphor, eight ounces.

Mix. A powerful rubefacient. Niemann.

#### Cerate of Cantharides.

R. Powdered cantharides, twelve troyounces.

Yellow wax,
Resin, each,
Lard,
seven troyounces.
ten troyounces.

Melt the wax, resin, and lard, strain, add the flies, and keep the mixture fluid for half an hour over a water-bath; remove from the fire and stir till cold. U. S. Ph.

The blistering plasters of Brit. Ph. and Paris Codex contain the same proportion of contharides

#### Cerate of Extract of Cantharides.

R. Powdered cantha-

five troyounces. rides, Stronger alcohol, sufficient. Resin, three troyounces. Yellow wax, six troyounces. Lard, seven troyounces.

Exhaust the cantharides in a percolator with the alcohol, distil the tincture, and evaporate until a soft extract is obtained; add this to the melted resin, wax, and lard, keep the mixture at 212° F. for fifteen minutes, strain, and stir till cold. U.S. Ph.

An efficient and elegant cerate to replace the old-fashioned blistering plaster.

#### Cantharides Ointment.

R. Cantharides cerate, two drachms. six drachms. Resin cerate, Mix thoroughly. U. S. Ph. As a stimulating dressing to blisters.

R. Catharides. one part. four parts. Olive oil, Digest for twelve hours, express, filter, and add

Yellow wax, two parts. Melt together and cool. Ph. Germ. The ointment of Brit. Ph. is almost identical with this.

# Compound Ointment of Cantharides.

R. Yellow wax, three parts. six parts. Resin, Common turpentine, twelve parts. fifty parts. Melt together and add very fine powders of Cantharides, ten parts. two parts. Euphorbium, Mix thoroughly. Ph. Germ.

#### Ointment of Extract of Cantharides.

R. Alcoholic extract of cantharides, eight grains. one drop. Oil of roses, Beef marrow, two ounces. Oil of lemon, forty minims. Melt the marrow, add the extract, and stir in the essential oils.

To promote the growth of the hair. M. Cap.

#### Cantharides Plaster.

R. Powdered cantharides, two parts. Common olive oil, one part. Digest for two hours in a water bath, add

Yellow wax, four parts. Common turpentine, one part. Previously melted, and mix. Ph. Germ. Firmer and more adhesive than the

#### Pitch Plaster with Cantharides.

R. Burgundy pitch, forty-eight troyounces. Cerate of cantharides, four troyounces.

Heat the cerate to 2120 for fifteen minutes, strain, and melt together with the pitch.

R. Cantharides, in coarse powder, Expressed oil of nutmeg,

Yellow wax, Resin, each, four ounces. Soap plaster, fifty-two ounces. Resin plaster, thirty-two ounces. Boiling water, twenty ounces.

Infuse the cantharides in the water for six hours, express strongly, evaporate to onethird, add the other ingredients, melt, and Brit. Ph. stir well until cool.

Warming Plaster. Used as a counterirritant.

# Perpetual Cantharides Plaster.

R. Resin,

Yellow wax, each, fifty parts. Common turpentine, thirty-seven Burgundy pitch, twenty-five parts. Suet, twenty parts. Melt together with a moderate heat, and add very fine powders of

Cantharides, eighteen parts. Euphorbium, six parts. Irritant and slow vesicant. Ph. Germ.

#### Camphorated Cantharides Plaster.

R. Plaster of melilot, two ounces. Melt and add

Powdered cantharides, six drachms. half a drachm. Camphor, As a vesicant. Spielmann.

#### Odontalgic Plaster with Cantharides.

R. Pitch,

Resin, each, one ounce.

Melt together, and add

Storax,

Cantharides, each, two ounces.

As an irritant plaster to the cheek in cases | dries, add a second and a third, always of toothache.

#### Issue Ointment.

R. Powdered Spanish flies, half an ounce.

Rose water, two fl. ounces. Boil and add

Tartar emetic, fifteen grains. Evaporate to one-half, strain, and add

three ounces. Olive oil. White wax, one ounce and a half. Spermaceti, one ounce. Boil till all moisture is evaporated. Used as a stimulating application to issues.

Physick.

#### Cantharides Pomatum.

R. Powdered Spanish flies, one drachm. Alcohol, one ounce. Macerate and filter. Ten parts of this tincture are to be well incorporated with ninety parts of lard. Said to be very effectual in preventing the hair from falling Dupuytren.

# Cantharides (Blistering) Paper.

R. White wax, four troyounces. Spermaceti, one troyounce and a half. Olive oil, two troyounces. Canada turpentine, Powdered cantharides. half a troyounce. each.

Water, five fl. ounces. Boil gently in a tinned vessel for two hours. constantly stirring, filter through a woollen strainer without expression, keep the mixture liquid by means of a shallow waterbath, and coat strips of paper upon one side only with the melted plaster by passing them over the surface of the liquid.

U. S. Ph. The formula of Brit. Ph. differs mainly in using twice the above weight of cantharides, and in digesting the substances, except the Canada turpentine, which is to be added to the strained plaster.

#### Blistering Cloth.

R. Aqueous extract of cantharides, four parts. Gelatin in solution, Mix and brush over a piece of waxed cloth spread in a frame. When the first layer

Van Mons. passing the brush in the same direction.

Paris Pharm. Society.

# Stimulating Liniment.

R. Tincture of cantharides, fl. drachm. Soap liniment, six fl. drachms. Mix. In indolent chilblains. Wardrop.

#### Aromatic Cantharides Liniment.

R. Tincture of cantharides, equal Oil of thyme, parts. Solution of ammonia,

Mix. A powerful rubefacient. Augustin.

# Blistering Court Plaster.

R. Cantharides, one drachm and a half. Acetic ether, two ounces. Infuse for eight days, decant, and add two drachms. Resin. Spread on court plaster. As a mild vesi-

# Sparadrap of Cantharides.

R. Purified elemi,

resin, each, five ounces. Yellow wax, nineteen ounces. Basilicon cerate, eleven ounces. Olive oil, two ounces.

Melt together and incorporate

Cantharides in fine powder,

twenty-one ounces.

Cadet.

Spread the mixture while warm, upon oiled Paris Codex.

#### Taffeta Cantharidalis.

R. Cantharidal ether, Sulphuric ether, each, one ounce. Purified turpentine, Colophony, each, two drachms.

Mix. A piece of taffeta is stretched on a frame, and twice painted over with a brush dipped in the solution; the process is repeated the next day, and again the third day, always passing the brush in the same direction. After a few days the taffeta is covered with a solution of isinglass.

Oettinger.

#### Cantharidal Collodion.

one part. R. Cantharides, in fine powder, eight troyounces. Pyroxylon, one hundred grains, Canada turpentine, three hundred and twenty grains.

Castor oil, one hundred and sixty grains.

Stronger ether, a pint and a half.

Stronger alcohol, sufficient.

Press the cantharides firmly into a percolator, gradually pour on the ether, and reserve the first fifteen fluidounces of the ethereal tincture. Continue the percolation with stronger alcohol until half a pint of tincture is obtained; evaporate this spontaneously to one fl. ounce, mix with the reserved portion, and dissolve in the mixture the pyroxylon, turpentine, and oil.

U. S. Ph.

#### Hairwash.

R. Aromatic spirit of ammonia,
one ounce.
Tincture of cantharides, one or
two drachms.
Glycerin, half an ounce.
Rosemary water, eleven ounces.
Mix. An active stimulant for the scalp.
Startin.

#### Shampoo Liquid.

R. Rum, three quarts.
Alcohol, one pint.
Water, one pint.
Tincture of cantharides, half
an ounce.
Carbonate of ammonium, half
an ounce.

Carbonate of potassium, one oz. Dissolve the carbonates in the water, and add the solution to the other ingredients mixed together, and shake up well. To remove dandruff from the hair, by moistening it with the mixture, rubbing, so as to form a lather, and then washing with cold water.

Morfit.

# CAPSICUM.

#### CAYENNE PEPPER.

Several species of capsicum are used under the above officinal name, as C. annuum, C. fastigiatum, etc.. C. annuum is a native of Asia, but now generally cultivated in Europe and America.

Sex. Syst. Pentand. monog. Nat. Syst. So-

lanaceæ

Linn. Sp. Pl. 270. Griffith, Med. Bot. 497. Capsicum has a pungent smell, and a hot, bitterish, acrid taste. It is an active stimulant, and rubefacient. Dose, five to ten grains in powder or pill.

#### Cayenne Pepper Pills.

R. Powdered Cayenne

pepper, one drachm.

Crumb of bread,

Distilled water, each, sufficient.
Rub into mass and form twelve pills. One, three or four times a day. In debility of the stomach, especially from intemperance.

Ellis.

R. Powdered Cayenne pepper, one scruple.

Extract of gentian, one drachm. Powdered gentian, sufficient. Form mass, and divide into sixty pills. In chronic dyspepsia. Radius.

# Cayenne Pepper Lozenges.

R. Cayenne pepper, three drachms.
Ginger,
Horseradish, each, two drachms.
Sugar, one ounce.
Conserve of roses, one drachm.
Mix, and make thirty lozenges. One to be chewed occasionally in catarrhal deafness.
Fosbroke.

# Cayenne Pepper Syrup.

R. Simple syrup, two pints.

Tincture of Cayenne
pepper, one fl. ounce.

Pour the tincture on the heated syrup, and evaporate it from the surface of the latter, until the vapor ceases to ignite on the approach of flame. Then mix immediately.

A. Smith.

## Infusion of Cayenne Pepper.

R. Cayenne pepper, half a troyounce.

Boiling water, one pint.

Infuse for two hours, and strain. Dose, half a fl. ounce.

U. S. Ph.

# Cayenne Pepper Gargle.

R. Tincture of Cayenne
pepper, half fl. ounce.
Rose water, eight fl. ounces.

R. Powdered Cayenne

pepper, two tablespoonfuls. Common salt, a teaspoonful. Boiling vinegar,

" water, each, half a pint.

Infuse for an hour, and strain. In bad cases of scarlatina.

Stephens.

R. Powdered Cayenne

half an ounce. pepper, Magnesia, one drachm.

Boiling water,

" vinegar, each, eight ounces. Infuse, and strain. Used in same cases, and in same manner, as above. Headley.

# Tincture of Cayenne Pepper.

one ounce. R. Cayenne pepper, Diluted alcohol, sufficient. Obtain by displacement two pints of tinc-U. S. Ph.

As a stimulant in low states of fever with gastric insensibility. Dose, one to two fl. drachms. Also used in a diluted state as gargle.

Tincture of Brit. Ph. is about same

strength.

R. Powdered capsicum, one part. Alcohol, ten parts. Macerate for eight days, express, and filter. Ph. Germ.

Nearly three times stronger than preceding.

# Concentrated Tincture of Cayenne Pepper.

R. Cayenne pepper, four ounces. Rectified spirit, twelve fl. ounces. Macerate for seven days, and strain. Used as an embrocation for toothache and chil-A. Turnbull. blains.

# Tincture of Cayenne Pepper and Cantharides.

R. Cayenne pepper, one drachm. Cantharides, ten drachms. Alcohol, one pint. Digest for two days, and filter. Dose, ten Coxe.

# Vinegar of Cayenne Pepper.

R. Cayenne pepper, one part. Vinegar, six parts. Digest for some days, and filter. In doses of half a drachm to a drachm, in passive dropsies. Béral.

# Oleo-resin of Capsicum.

R. Powdered capsicum, twelve troyounces. Ether, sufficient.

four fl. ounces of tincture, distil off most of ether, evaporate remainder spontaneously, and remove solid fat by straining. U.S. Ph. Dose, one-half to one grain.

# Extract of Cayenne Pepper.

R. Powdered Cayenne

pepper, eight ounces. Diluted alcohol, sufficient. Exhaust powder by displacement with diluted alcohol, and evaporate the tincture in a water-bath to the consistence of an extract. About two ounces of extract are obtained. Dose, one or two grains made W. C. Bakes. into pills.

# Cerate of Cayenne Pepper.

R. Extract of Cayenne pepper, one drachm. Simple cerate, one ounce. Rub together. This acts as a rubefacient in twenty or thirty minutes. W. C. Bakes.

# Cayenne Pepper Cataplasm.

R. Powdered Cayenne one ounce. pepper, Ground mustard, Common soap, each, three ounces. sufficient. Alcohol, Mix. An active rubefacient. Ammon.

#### Lotion of Cayenne Pepper.

R. Tincture of Cayenne pepper, Spirit of camphor, four fl. ounces. each, Solution of ammonia, two fl. ounces.

Mix. A very powerful rubefacient. Ammon.

# CARBO ANIMALIS.

# ANIMAL CHARCOAL.

This article is prepared by charring animal substances, usually bones. It requires purification for internal use.

# Purified Animal Charcoal.

R. Animal charcoal, Muriatic acid, each, twelve troyounces. Water, twelve fl. ounces. Pack capsicum firmly into a suitable per- Mix the acid and water, and pour on charcolater, obtain by slow displacement twenty- | coal; digest for two days, occasionally

stirring. Decant, and wash the charcoal frequently with water, and dry it.

U. S. Ph.

R. Lean of beef or mutton, two parts. Broken bones, one part.

Char by a moderate fire in a coffee-roaster, let cool and pulverize. Weise.

Has been given with advantage in scrofulous diseases, chronic glandular swellings, etc., in doses of ten to twenty grains.

#### Powder of Animal Charcoal.

R. Animal charcoal, four grains.
Sugar, one drachm.
Mix. To be taken morning and evening, in scrofula.

Weise.

R. Animal charcoal, six grains.
Burnt sponge, twelve grains.
Powdered liquorice

root, half a drachm.

Mix, and form six powders. One to be taken morning and night, in scirrhous goitre.

Riecke.

R. Animal charcoal, four grains.
Powdered liquorice

root, four scruples.

Mix, and divide into eight powders, one to be taken morning and evening, dry; a little water drank afterwards. After the eight powders are taken, increase the dose, by half a grain at a time, to four grains. In scirrhous tumors of the breast. A spare diet to be observed.

Weise.

R. Animal charcoal, one scruple. Subcarbonate of iron,

Sugar, each, two scruples.

Mix, and divide into ten powders. One
three or four times a day in incipient hypertrophy of the womb or ovaries. Clarus.

#### Troches of Animal Charcoal.

R. Animal charcoal, one part.
Sugar, eight parts.
Mix, and with mucilage of tragacanth form mass, which divide into lozenges of ten grains each.

Radius.

# Ointment of Animal Charcoal.

R. Animal charcoal, one part. two parts. Rub together. Giordano.

R. Animal charcoal, half an ounce.
Ointment of mallows, six drachms.

Mix. As a friction to glandular engorgements.

Radius.

# CARBO LIGNI.

#### CHARCOAL

Is employed in medicine as an antiseptic and absorbent, and has been found useful in dyspepsia, etc. It also enters into the composition of poultices, etc.

#### Charcoal Dentifrice Powder.

R. Powdered charcoal, four troyounces.

" cinchona, two troyounces.
Oil of mint, ten grains.

Mix. Paris Codex.

R. Powdered charcoal, four parts.

"Peruvian bark, two parts.

"myrrh, one part.

Mix.

Ph. Slesv.

R. Powdered charcoal, three drachms.

Peruvian bark,

two drachms.

" calamus, one drachm.
" myrrh, half a drachm.
Oil of cloves, three drops.

Mix. Sartori.

R. Powdered charcoal,

"red saunders,
orange-peel,
Peruvian bark,
one
drm.

" cremor tartar, J
Oil of bergamot, twenty drops.
Mix. Schubarth.

# Compound Charcoal Powder.

R. Charcoal, four drachms.

Magnesia, three drachms.

Rochelle salt, two troyounces.

Powder separately, and mix. Antacid and laxative.

Maryl. Coll. Ph.

If carbonate of magnesium is preferred to magnesia, four drachms of the former should be used.

# Powder of Charcoal and Quassia.

R. Powdered charcoal, six drachms. quassia,

rachms. Magnesia, each, one drachm. engorge-Radius. Dose, a teaspoonful, two or three times a day, in pyrosis.

#### Charcoal Lozenges.

R. Powdered charcoal,

" sugar, each, one ounce.
" vanilla, one drachm.

" chocolate, three ounces.

Mucilage of tragacanth, sufficient.

Beat together, and form lozenges of eighteen grains. For fetid breath. Chevallier.

R. Powdered charcoal, one part.
Sugar, three parts.
Mix, and with mucilage of tragacanth form lozenges of fifteen grains each.

Paris Codex.

# Charcoal Electuary.

R. Powdered charcoal, Carbonate of sodium, each, one drachm.

Electuary of senna, two ounces.

Mix. Two or three teaspoonfuls a day in obstinate constipation.

Radius.

#### Charcoal Tooth Paste.

R. Powdered charcoal,
orris root,
Peruvian bark, scruple.
Tincture of myrrh, half a drachm.
Clarified honey, sufficient.
Mix. Used as a dentifrice. L. W. Sachs.

#### Ointment of Charcoal.

R. Powdered charcoal,
Storax ointment, each, one ounce.
Camphor,
Myrrh, each, two drachms.
Spirit of turpentine, sufficient.
Rub well together. As a dressing to fetid ulcers.

Rust.

# Charcoal Cataplasm.

R. Freshly prepared charcoal, sufficient.

Mix with

Simple cataplasm in a tepid state. Dub. Ph.

As an application to foul and gangrenous ulcers.

R. Powdered charcoal, half an ounce. Cataplasm of chamomile, five pounds.

Mix. As above.

# Charcoal Suppository.

R. Cork charcoal,
Wax, each,
Fresh butter,
Wix. As a suppository in hemorrhoids.

Cadet.

# CARBO MINERALIS.

# MINERAL COAL.

#### Anthracokali.

R. Carbonate of potassium, six oz.
Lime, three and a half ounces.
Water, four pints.

Proceed as in making liquor potassa, and concentrate the clear solution, by boiling in an iron pot, till an oily-looking liquid remains, then stir in five ounces of finely-powdered mineral coal; remove from the fire, and continue stirring till the whole is reduced to an uniform powder, which is to be immediately put in small, well-stopped bottles.

Polya.

Much recommended in cutaneous diseases, scrofula, chronic rheumatism, etc. Dose, two grains, twice or thrice a day.

## Powder of Anthracokali.

R. Anthracokali, two grains.

Powdered liquorice, five grains.

Mix. Two to four times a day. Polya.

# Compound Powder of Anthracokali.

R. Anthracokali, two grains.
Washed sulphur, three to five grains.
Powdered liquorice, two to three grains.

Mix. In psora, etc. Polya.

R. Anthracokali, two grains.

Calomel, one-sixth of a grain.

Powdered liquorice, three grains.

Mix. In syphilitic eruptions. Polya.

R. Anthracokali,
Golden sulphuret of
antimony, each,
Powdered liquorice, three grains.
Mix.

Polya.

#### Sulphuretted Anthracokali.

R. Prepared like the simple anthracokali, adding four drachms of sulphur to the coal, and dissolving, etc., as above.

Brera. The dose and uses are the same. Polya.

#### CARBONIS IODIDUM.

IODIDE OF CARBON.

R. Tincture of iodine, two fl. ounces. Solution of potassa, sufficient. Add the solution of potassa to the tincture till the latter loses its color, then add

Distilled water sufficient to precipitate the iodide, separate, and dry by a gentle heat.

# Ointment of Iodide cf Carbon.

R. Iodide of carbon, half a drachm. Simple ointment, six drachms. Rub together. As an application to enlarged glands, and obstinate cutaneous affections. Litchfield.

# CARDAMINE.

#### CUCKOO FLOWER.

This is the Cardamine pratensis, a small herbaceous plant, a native of Europe, and also found in the more northern parts of America.

Sex. Syst. Tetrad. siliquos. Nat. Syst. Brassicaceæ.

Linn. Sp. Pl. 915. Baker, Med. Trans. 1

The part employed is the flowers, which are said to be diuretic and antispasmodic. It is not used in this country, and appears to be little deserving of notice.

# CARDAMOMUM...

#### CARDAMOM.

Under the name of Cardamom a variety of aromatic capsules have been used in medicine, all possessing the same properties and somewhat the same appearance. That recognized by the pharmacopæias is the product of the Elettaria Cardamomum, a native of Malabar.

Sex. Syst. Monand. monog. Nat. Syst. Zin-

giberaceæ. Maton, Trans. Linn. Soc. x. 254. Griffith,

Med. Bot. 633.

The part used is the seeds; these are angular, somewhat rough, of a reddish or brownish color, with an agreeable fragrant odor, and a warm, aromatic taste. They are seldom used alone, being chiefly employed in compound preparations.

#### Aromatic Powder.

R. Ginger,

Cinnamon, each, two troyounces. Cardamom, deprived of the capsules,

Nutmeg, grated, each, one ounce.

Rub the ingredients in the form of powder, until thoroughly mixed. U. S. Ph.

Stimulant and carminative. Dose, ten to thirty grains, in dyspepsia with flatulence. See also Compound Powder of Cinnamon.

#### Aromatic Confection.

R. Aromatic powder,

troyounces. Clarified honey, sufficient.

four

Rub together, and beat into a mass.

U. S. Ph. Used as a stimulant to the stomach, in doses of ten to sixty grains.

## Tincture of Cardamom.

R. Cardamom, bruised, four ounces. Diluted alcohol, sufficient. Obtain by percolation, two pints.

U. S. Ph. A pleasant, aromatic stimulant. Dose, one to two fl. drachms.

# Compound Tincture of Cardamom.

R. Powdered cardamom, six drachms.

caraway, two drachms.

66 cochineal, one drachm.

cinnamon, five drachms. two troyounces. Honey,

Diluted alcohol, sufficient. Percolate the mixed powders with the diluted alcohol to obtain thirty-eight fl. ounces of tincture, and add the honey. U.S. Ph.

The tincture of Brit. Ph. is very similar, raisins being employed in place of the honey.

An agreeable aromatic and carminative, in the dose of one or two fl. drachms.

# Ethereal Extract of Cardamom.

R. Cardamom, in powder, at will. Sulphuric ether, sufficient.

Treat, till twice the weight of the seed is obtained. Evaporate spontaneously until deprived of ether. This extract is fluid, and consists of volatile and fixed oil. It may be used for aromatizing powders, or as W. Procter. an addition to pills.

# CAROTA.

#### CARROT.

The seeds and root of the common carrot, Daucus carota, a native of Europe, but now extensively naturalized in the United States, and generally cultivated as an esculent in both countries.

Sex. Syst. Pentand. digyn. Nat. Syst.

Apiaceæ.

Linn. Sp. Pl. 348. Griffith, Med. Bot. 337. The parts used are the fruit and root; the former alone is recognized in the U. S. Ph.; they are aromatic, and have a pungent, bitterish taste; the root of the wild carrot has a strong smell, and an acrid, disagreeable taste; both these are similar in their remedial effects, being aromatic and diuretic. The root of the cultivated variety is milder, and is not used internally, but has much reputation as an external application to foul ulcers, etc.

## Infusion of Carrot Fruit.

R. Carrot fruit, half an ounce-one

ounce.

Boiling water, one pint. Infuse. To be taken during the day as a diuretic, in dropsy and nephritic complaints.

# Cataplasm of Carrot Root.

R. Root of garden carrot, at will. Scrape down to a pulp. As an application to foul and cancerous ulcers. Wood.

R. Root of garden carrot, at will. Boil till soft, and mash. Dub. Ph. 1850.

This acts merely as an emollient, and is not possessed of any virtues beyond those of the common poultice.

#### Extract of Carrot Root.

R. Clarified juice of carrot

root, at will.

Evaporate on a water-bath to the consistence of honey.

Swediaur.

As an application to ulcerated cancers.

#### Carrot Ointment.

R. Carrot root, grated, one pound.

Lard, twenty ounces.

Yellow wax, two ounces.

Heat them together till the water of vegetation is driven off, and the fat has acquired a yellow color; then strain for use.

W. Procter.

### CARTHAMUS.

#### SAFFLOWER.

This is the florets of Carthamus tinctorius, a native of the Levant and Egypt, but cultivated in some parts of Europe and in the United States.

Sex. Syst. Syngen. æqual. Nat. Syst. Asteraceæ.

Linn. Sp. Pl. 1162. Griffith, Med. Bot.

The fruit was formerly much used in medicine, but is at present seldom resorted to. The florets are somewhat stimulant, and, in warm infusion, diaphoretic, and are used as a substitute for safiron.

#### Infusion of Safflower.

R. Safflower, two drachms. Boiling water, one pint.

Infuse, and strain.

Used in domestic practice in the exanthemata, to bring out the eruption.

# CARUM.

#### CARAWAY.

Caraway fruit is the product of Carum carui, an umbelliferous plant, a native of Europe, and cultivated both there and in this country.

Sex. Syst. Pentand. digyn. Nat. Syst. Api-

aceæ.

Linn. Sp. Pl. 378. Griffith, Med. Bot. 318. The fruit, the only part used, is of a brownish color, with a fragrant but peculiar odor, and an aromatic, warm taste. It is a pleasant aromatic and carminative. Dose, in powder, from a scruple to a drachm.

#### Caraway Water.

R. Caraway, bruised, one pound.
Water, twenty pounds.
Mix. Distil ten pounds.

Brit. Ph.

# Infusion of Caraway.

R. Caraway, two drachms.
Boiling water, one pint.
Infuse and strain. Wood.
In flatulent colic of infants.

## Spirit of Caraway.

R. Bruised caraway, twenty-two ounces.
Proof spirit, one gallon.
Water, two pints.

Mix, and distil one gallon.

Lond. Ph. 1836.

R. Oil of caraway, two fl. drachms. Proof spirit, one gallon.

Dissolve. Lond. Ph. 1851.

As a carminative. In doses of one to two fl. drachms.

Radius.

Oil of Caraway.

R. Caraway, bruised, at will. Water, sufficient. Macerate for some time, distil, and separate the oil. Van Mons.

#### Essence of Caraway.

R. Oil of caraway, one fl. ounce. Rectified spirit, nine fl. ounces. Dub. Ph. 1850. Mix with agitation. Dose, about twenty drops.

## Embrocation of Caraway.

R. Oil of caraway, peppermint, each, one scruple. one ounce. Wine of opium, half a fl. drachm. Mix. As an embrocation on the abdomen

of infants in colic.

# CARYOPHYLLUS.

## CLOVES.

Cloves are the unexpanded flowers of Caryophyllus aromaticus, a small tree, a native of the Molucca Islands, and also cultivated in many other parts of the East Indies.

Sext. Syst. Icosand. monog. Nat. Syst. Myrtaceæ.

Linn. Sp. Pl. 735. Griffith, Med. Bot. 298. Cloves are somewhat nail-shaped, of a brown color, with a strong fragrant smell, and a permanent, pungent, aromatic taste. They are highly stimulating, and are given as a carminative and excitant of the gastric functions, in the dose of five to ten grains, but are more used as an adjunct to various officinal compounds.

#### Infusion of Cloves.

R. Bruised cloves, two drachms. Boiling water, one pint. Macerate for two hours in a covered vessel, and strain. U. S. Ph.

The infusion of Brit. Ph. represents in each ounce eleven grains of cloves.

Dose, from one to two fl. ounces.

#### Clove Water.

R. Bruised cloves, one part. Water, eight parts. Digest for twelve hours, and distil twelve

As a stimulant and carminative.

# Spirit of Cloves.

R. Bruised cloves, one part. Alcohol, eight parts. Macerate for some days, and distil eight parts.

#### Tincture of Cloves.

R. Bruised cloves, one part. Alcohol, five parts. Macerate for ten days, express, and filter. Paris Codex.

#### Wine of Cloves.

R. Bruised cloves, mace, each, one drachm. Red wine, one pint. Boil, and strain. As a fomentation. Saunders.

#### Oil of Cloves.

at will. R. Bruised cloves, sufficient. Water, Macerate for some time, distil, return the product, and redistil several times, separate the oil, which sinks to the bottom. Van Mons.

Dose, two to six drops.

#### Aromatic Balsam of Cloves.

R. Oil of cloves, nutmeg, each, one scruple. Spirit of juniper berries, two ounces.

Mix. As a stimulating friction. Bories.

## Odontalgic Mixture.

twelve drops. R. Oil of cloves, Tincture of pimpinella, Sulphuric ether, each, two drachms.

Aromatic tineture, one drachm. Mix. To be applied to the carious tooth. Augustin.

#### Clove Plaster.

R. Yellow wax, twenty-two parts. Suet, twenty-four parts. Melt, and add

Powdered olibanum, sixteen parts. eight parts. cloves, six parts. Oil of nutmeg, one part. peppermint, Van Mons. As an application to the stomach, or

Cottereau. over a pained part.

Clove Cataplasm.

R. Rye flour, six or eight spoonfuls. Red wine, sufficient.

to make a cataplasm; add Powdered cloves, Grated nutmeg, each,

a teaspoonful.

Mix well. As an application to the stomach, to check nausea or pain.

Radius.

#### Clove Bag.

R. Powdered cloves, two drachms. "marjoram,

half an ounce.

" rosemary, one ounce. Mix, and quilt between folds of linen, dip in Cologne water, and apply to the pit of the stomach, to check nausea. Phæbus.

# CASCARILLA.

#### CASCARILLA.

This is the bark of Croton eleutheria, a shrub found in several of the West India islands, and also, perhaps, derived from other species.

Sex. Syst. Monœc. monadelph. Nat. Syst.

Euphorbiaceæ.

Bennett, Journ. Proc. Linn. Soc. Griffith,

Med. Bot. 596.

In rolled fragments, whitish externally, and of a chocolate color within, of an aromatic odor, and a spicy, bitter taste. It is an aromatic tonic, and is useful in debilitated conditions of the stomach and bowels. Dose, in powder, from a scruple to half a drachm.

# Compound Cascarilla Powder,

R. Powdered cascarilla, ten grains.

opium,

" ipecacuanha, each,

one grain.

Mix. To be taken every five hours in obstinate diarrhea. Radius.

R. Powdered cascarilla, one drachm.

hartshorn,

" cuttlefish bone,

each, four drachms.

" amber, two drachms.

Mix. One drachm to be taken in a glass

Mix. One drachm to be taken in a glass of sugar and water, at bedtime, against nocturnal pollutions.

Pierquin.

# Infusion of Cascarilla.

B. Bruised cascarilla, one ounce. Boiling water, ten ounces.

Macerate for one hour in a covered vessel, and strain.

Brit. Ph.

R. Powdered cascarilla,

Water,

one troyounce. sufficient

Obtain by displacement one pint. Or it may be prepared by maceration in boiling water.

U. S. Ph.

Dose, one to two fl. ounces.

# Alkaline Infusion of Cascarilla.

R. Bruised cascarilla, three ounces.
Carbonate of potassium, two
drachms.

Boiling water, sixteen fl. ounces.

Macerate for two hours, and filter. Dose, a spoonful, two or three times a day, as an antacid and tonic.

Palat. Ph.

## Extract of Cascarilla.

R. Bruised cascarilla, one part.
Water, six parts.
Treat the cascarilla first with two-thirds,

Treat the cascarilla first with two-thirds, then with the remainder of the water, and evaporate. Dose, from ten grains to half a drachm.

Ph. Germ.

# Mixture of Extract of Cascarilla.

R. Extract of cascarilla, one drachm.

White sugar, six drachms.

Oil of chamomile, twenty drops.

Tragacanth, half a drachm.

Wine of opium, twenty-five drops.

Cinnamon water, two fl. ounces.

Peppermint water, four fl. ounces.

Mix. A spoonful every hour in dysentery.

Augustin.

#### Tincture of Cascarilla.

R. Bruised cascarilla,

two ounces and a half.
Proof spirit, sufficient.
Obtain by maceration, displacement, and expression one pint (twenty fl. ounces) of tincture. Dose, half to two fl. drachms.

Ph. Germ. directs to macerate one part of cascarilla in five parts of alcohol (0.892).

# Concentrated Tincture of Cascarilla.

R. Cascarilla in powder, No. 60,

sixteen troyounces. sufficient.

Alcohol, sufficient.
Obtain by slow displacement two pints.
Dose, half to one fl. drachm.

Maryland Coll. Ph.

# Compound Wine of Cascarilla.

R. Powdered cascarilla,

one ounce and a half.
Contused orange-peel, one ounce.
"cinnamon, two drachms.
White wine,

twenty-seven fl. ounces.

Digest for twenty-four hours, and filter. As a stomachic and tonic, in doses of two ounces, four times a day.

Phæbus.

# CASSIA FISTULA.

#### PURGING CASSIA.

This is the fruit or pod of the Cassia fistula, a large tree, a native of Egypt, and many parts of Asia, and cultivated in most tropical regions.

Sex. Syst. Decand. monog. Nat. Syst. Fabaceæ.

Linn. Sp. Pl. 540. Griffith, Med. Bot. 253. The pods are a foot or more in length, cylindrical, of a dark brown color, with two longitudinal furrows on one side, and one on the other. They are internally divided into numerous cells, each containing one seed enveloped in a soft pulp. This latter, which is the part used, has a faint nauseous smell, and a sweet, mucilaginous taste. It is laxative in doses of one or two drachms, and purgative in those of one or two ounces.

## Pulp of Purging Cassia.

R. Purging cassia, bruised, sufficient.

Pour boiling water on it to soften the pulp, strain, and evaporate to proper consistence.

U. S. Ph. 1840.

Dose, one drachm.

#### Confection of Cassia.

R. Cassia pulp,

Manna,

Tamarind pulp,

Syrup of roses,

Mix well, and evaporate to proper consistence.

Slightly laxative.

#### Mixture of Cassia Pulp.

R. Pulp of cassia, one ounce. Infusion of rhubarb, a drachm and a half. Syrup of roses,

Manna, each, one ounce.

Mix well. A mill laxative. Pierquin.

# CASSIA MARILANDIA.

# AMERICAN SENNA.

This species is an indigenous perennial plant, with showy, bright yellow flowers, growing in moist places and on the banks of streams.

Sex. Syst. Decand. monog. Nat. Syst. Fabaceæ.

Linn. Sp. Pl. 541. Griffith, Med. Bot.

The leaves, which are the officinal portion, are usually exposed for sale in small packages, like the other herbs put up by the Shakers. They have a faint, unpleasant odor, and a nauseous taste like senna, of which they possess all the qualities, but are not quite as active.

#### Infusion of American Senna.

R. American

senna, one ounce and a half.
Coriander seed,
bruised, one drachm.
Boiling water, one pint.
Macerate in a covered vessel one hour, and strain.

Martin.

Dose, a wineglassful.

# CASTANEA.

#### CHESTNUT LEAVES.

Castanea vesca is a large tree growing in many parts of the United States.

Sex. Syst. Monœcia Polyan. Nat. Syst. Cupuliferæ.

The leaves are officinal; they are four to eight inches long, oblong-lanceolate, acuminate, sinuate-serrate, smooth and green on both sides, without odor, but of an astringent taste. They should be collected in August or September. Given freely in the form of decoction or fluid extract, they have been found serviceable in hooping-cough, without producing constipation.

#### Decoction of Chestnut Leaves.

R. Chestnut leaves, half a troyounce.
Water, sufficient.
Boil and strain to obtain one pint. To be taken ad libitum.
Unzicker.

#### Fluid Extract of Chestnut Leaves.

R. Chestnut leaves, cut, sixteen troyounces.
Glycerin, four fl. ounces.
Sugar, six troyounces.
Boiling water, sufficient.
Digest the leaves with water for twenty.

Pierquin. Digest the leaves with water for twentyfour hours, express, and strain; repeat twice with sufficient water to cover the leaves, mix the clear infusions, add the glycerin and sugar, and evaporate to one pint.

Maisch.

Dose, half to one teaspoonful or more, every two or three hours, according to the age of the patient and the severity of the paroxysms.

A. S. Gerhard.

# CASTANEA PUMILA.

# CHINQUAPIN.

A shrub or small tree, growing chiefly in the southern part of this country. The bark has been used as a tonic and antiperiodic, in the form of infusion, made from one ounce of the bark to a pint of water, and given in doses of a fluidounce or two.

# CASTOREUM.

#### CASTOR.

Castor is a peculiar substance obtained from membranous follicles in the common beaver or Castor fiber, situated between the organs of generation and the anus. It is in the form of solid, unctuous masses, contained in small, wrinkled, brownish sacs. It has a strong, unpleasant smell, and a bitter, acrid taste. It is stimulant and antispasmodic, and has been much praised in the neuroses. In this country it is not much used. Dose, from ten to twenty grains.

# Compound Powder of Castor.

R. Castor, twelve grains.
Powdered cascarilla, one scruple.
Magnesia, one scruple and a half.
Mix, and divide into three powders.

Saunders.

R. Castor,
Powdered valerian,
Sugar,

each,
ten grains.

Mix, and divide into three doses. *Phæbus*. As antispasmodics.

### Bolus of Castor.

R. Assafetida,
Valerian,
Castor,
Amber,
Camphor,
Syrup,
Mix, and form boluses of ten grains each.

Said to be efficacious in hysteria, neuralgia,

and vertigo.

#### Castor Pills.

R. Assafetida, one drachm.
Galbanum,
Myrrh, each, half a drachm.
Castor, fifteen grains.
Tincture of valerian, sufficient.
Beat together, and divide into seventy-two pills. Dose, three to eight, three times a day, in hysteria.

Phæbus.

## Pills of Castor and Succinic Acid.

R. Castor, one drachm.
Succinic acid, half a drachm.
Extract of gentian, sufficient.
Beat together, and form twenty-four pills.
Three, morning and night, in hysteria.

Ellis.

#### Tincture of Castor.

R. Bruised castor, two troyounces.

Alcohol, two pints.

Digest for seven days, express, and filter.

U. S. Ph.

Dose, from thirty drops to two fl.

drachms.

Tincture of Brit. Ph. is about one-fourth weaker. Paris Codex and Ph. Germ. use proportions of one to ten; the latter recognizes two tinctures made with Canadian and with Siberian castor.

#### Ethereal Tincture of Castor.

R. Powdered castor, one part.
Spirit of ether, ten parts.
Macerate for ten days and filter.

Paris Codex.

R. Bruised castor, two ounces.
" saffron, one ounce.
Spirit of sulphuric

ether, twelve ounces.

Digest for twenty-four hours, and filter. As an antispasmodic. In doses of thirty drops.

Spielmann.

#### Ammoniated Tincture of Castor.

R. Bruised castor, two ounces and a half.

Contused assafetida, ten drachms. Spirit of ammonia, two pints.

Digest for seven days, in a closed vessel, express, strain, and filter. Ed. Ph. 1841.

each. A powerful stimulant, and antispasmodic, algia, in cases of spasm of the stomach, hysteria, Foy. etc. Dose, thirty drops to two fl. drachms.

# Compound Tincture of Castor.

R. Assafetida. two drachms. Opium, half a drachm. Oil of amber, one drachm. Castor, half an ounce. four ounces. Alcohol,

Digest for four days, express, and filter. Dose, thirty to forty drops in wine, in hys-Ferrara Ph.

# Compound Plaster of Castor.

R. Wax plaster, sixteen ounces. Soap. four ounces.

Melt together, and add, on cooling,

Camphor, one ounce. half an ounce. Castor. Incorporate well. Highly praised in headache, rheumatism, etc. Giordano.

# Compound Spirit of Castor.

half an ounce. R. Castor, Assafetida, two drachms. Oil of amber, one drachm. savine,

rue, each, half a drachm. Alcohol, ten ounces.

Digest, distil, and add

Empyreumat. carb. of

ammonium, two ounces. Camphor, one drachm. Distil again. Dose, twenty to forty drops.

Cottereau.

# CATALPA.

#### CATALPA.

The Catalpa cordifolia is a beautiful native tree, principally found in the southern and southwestern States.

Sex. Syst. Diand. monog. Nat. Syst. Big-

noniaceæ.

Elliot, Bot. i. 24. Lindley, Flor. Med. 499. The bark is said to be vermifuge, but the part used in medicine is principally the pods. These have been found efficacious in asthma.

#### Decoction of Catalpa Pods.

R. Catalpa pods, half an ounce. Water, sufficient to obtain eight ounces of decoction; add

Oxymel of squill, half an ounce.

R. Catalpa pods, half an ounce. Seneka, two drachms. sufficient Water,

to obtain eight ounces of decoction; add

Oxymel of squill, one ounce. In spoonful doses, in chronic, nervous asthma. Brera.

R. Catalpa pods, three or four. Water, twelve fl. ounces. Boil down to six ounces, to be given in two doses, morning and night. Antomachi.

# CATARIA.

#### CATNEP.

This is the leaves or whole herb of Nepeta cataria, a perennial herbaceous plant, a native of Europe, and naturalized in the United States.

Sex. Syst. Didynam. gymnos. Nat. Syst.

Lamiaceæ.

Linn. Sp. Pl. 797. Griffith, Med. Bot. 512. It has a peculiar, somewhat unpleasant odor, and a bitterish, aromatic taste. It is stimulant, carminative, etc., and is used in the flatulent colic of infants, and as an emmenagogue, etc.

#### Infusion of Catnep.

two drachms. R. Catnep, Boiling water, eight fl. ounces. Infuse in a covered vessel. Dose, a teaspoonful occasionally, whilst hot, for an infant in flatulent colic; to be taken freely, as a diaphoretic, or emmenagogue.

# CATECHU.

#### CATECHU.

Catechu is an extract procured from the wood of Acacia catechu, and also from other trees. The Acacia catechu is a native of the East Indies, and is now cultivated in some of the West India islands.

Sex. Syst. Polygam. monœc. Nat. Syst.

Fabaceæ.

Linn. Sp. Pl. 409. Griffith, Med. Bot. 268. Catechu comes in masses of various forms, of a rusty-brown color externally, but paler within. It is inodorous, but has a bitter and astringent taste, followed by a sensa-tion of sweetness. It principally consists of tannin and extractive. It is a tonic and astringent, and is used in cases where astringents are required. The dose is from ten grains to half a drachm, repeated as required.

# CATECHU PALLIDUM.

#### PALE CATECHU.—GAMBIR.

This, which is the only variety recognized by the British Pharmacopæia, is the product of Uncaria Gambir, a high-climbing shrub of the West India Islands.

Syst. Cinchonaceæ. Roxb. Flor. Ind.

It comes in cubes, about an inch in diameter, externally brown, internally yellow-ish or reddish-gray. In odor, taste, and properties, it closely resembles catechu.

# Compound Powder of Catechu.

R. Powdered catechu, fifteen grains. salts, two grains.

Mix, and make powder; to be taken after each liquid stool, in diarrhœa from a weakened condition of the bowels.

A. T. Thomson.

Augustin.

R. Pale catechu, four ounces. Kino,

chronic diarrhœa.

Rhatany root, each, two ounces. Cinnamon,

Nutmeg, each, one ounce. Mix the substances in powder and pass through a five sieve.

An aromatic astringent. Dose, fifteen to forty grains. Brit. Ph.

R Powdered catechu,

cascarilla, equal gum Arabic, parts.

Aromatic powder, Mix. Dose, a scruple every two hours, in

#### Bolus of Catechu.

R. Powdered catechu, twenty-four grs. Extract of opium, two grains. Conserve of roses, sufficient. Mix, and form two boluses, one to be taken morning and evening, in chronic diarrhœa.

#### Pills of Alum and Catechu.

R. Alum, six grains. Extract of opium, Catechu, each, one grain. Mix, and divide into six pills, one to be given every two to four hours. In passive hemorrhage and atonic mucous discharges. Ellis.

#### Compound Catechu Bolus.

R. Powdered catechu, one scruple. Confection of opium, twelve grains. Aromatic confection, sufficient. Make a bolus, to be taken twice a day, in inordinate flow of the menses. Babington.

R. Powdered catechu, twelve parts. alum, six parts. opium, two parts. Syrup of red roses. sufficient.

Form a mass, and divide into pills of six grains each. One or two a day, in the decline of gonorrhœa.

# Pills of Catechu and Liquorice.

R. Catechu, half a drachm. Gum Arabic, Extract of liquorice, each. two drachms. Mastich, one drachm. Syrup of mallows, sufficient.

Form mass, and divide into pills of three grains each. Four, three times a day, in chronic catarrh. Van Mons.

# Lozenges of Catechu.

R. Catechu, one part. Sugar, five parts. Mix, and with mucilage of tragacanth form lozenges of eight grains each.

Paris Codex.

R. Pale catechu, seven hundred and twenty grains. Refined sugar, twenty-five ounces.

Gum acacia, one ounce.

Mucilage of gum

acacia, two fl. ounces. Mix the solid ingredients in powder, add the mucilage, and then sufficient water to form

a mass, which is to be divided into seven hundred and twenty lozenges. Dose, one Brit. Ph.

# Electuary of Catechu.

R. Catechu, Kino, each, four ounces. Cinnamon, Nutmeg, each, one ounce. Opium, diffused in a little sherry wine, one drachm and a half. Syrup of red roses, reduced to the consistence of honey, one pint and a half.

Pulverize the solids, mix the opium and syrup, add the powders, and beat into a mass. Ed. Ph. 1841.

In diarrhœa and chronic dysentery, in doses of half a drachm to a drachm.

R. Catechu,

Balsam of tolu, each, one drachm. Peruvian bark, one ounce. Syrup of red roses, sufficient. Beat together. One drachm morning and evening, in leucorrhœa and gonorrhœa.

Brera.

#### Compound Infusion of Catechu.

R. Catechu, half a troyounce. Cinnamon, powdered, one drachm. Boiling water, one pint.

Digest for an hour, and strain. U. S. Ph. Infusion of Catechu, Brit. Ph., is of nearly two-thirds this strength.

#### Infusion of Catechu.

R. Powdered catechu, one part.
Boiling water, one hundred parts.

Macerate and strain. Dorvault.
Dose from one to three fl. drachms, three or four times a day.

#### Tincture of Catechu.

R. Powdered catechu, three troyounces.

" cinnamon, two troyounces.

Diluted alcohol, sufficient.

Mix powders, and by displacement obtain two pints of tincture.

U. S. Ph.

R. Pale catechu, two ounces and a half (avoir.).

Cinnamon, bruised, one ounce (avoir.).

Proof spirit, one pint (imper.).

Macerate for a week, press, filter, and add proof spirit to make one pint. Brit. Ph.

R. Bruised catechu, one part.
Alcohol of 60 per cent. five parts.
Macerate for eight days, and filter.

Paris Codex and Ph. Germ.

A pleasant astringent. Dose, thirty
drops to three fl. drachms.

### Catechu Collutory.

R. Catechu,

Myrrh, each,
Balsam of Peru,
Spirit of cochlearia,
eight parts.
one part.

Alcohol, each, twenty-four parts.

Mix and digest for four days, and filter.

As a mouth-wash, in a spongy condition of the gums.

Saunders.

## Mixture of Catechu and Logwood.

R. Extract of logwood, three drachms.

Tincture of catechu, two fl. drachms.

Water, seven fl. ounces.

Mix. Two tablespoonfuls, every three or four hours, in chronic stages of diarrhea and dysentery.

Ellis.

### Anti-Emetic Mixture.

R. Catechu, one drachm.
Columbo, thirty grains.
Canella, twenty grains.
Boiling water, four fl. ounces.
Mix, and digest for eight hours, strain, and add

Syrup of red roses, one fl. ounce. In spoonful doses. *Pierquin*.

# Injection of Catechu.

R. Catechu,

Myrrh, each, one drachm.

Dissolve in

Lime water, four fl. ounces, and strain. As an injection, in chronic leucorrhœa and gonorrhœa.

## Aromatic Pastilles of Catechu. (Cachou Aromatise.)

R. Extract of liquorice, Water, each, three ounces and a half.

Dissolve on a water-bath, and add

Powdered catechu, four hundred and sixty-two grains.

" gum Arabic, two hundred and thirty-one grains.

Evaporate to the consistence of an extract, and incorporate

Powdered mastich,

" cascarilla,
" charcoal,
" orris root,
" grains.

Reduce to proper consistence, remove from fire, and add

Oil of peppermint, thirty drops. Tincture of ambergris,

" musk, each, ten drops.

Mix, and form into one grain pills. Used to aromatize the breath. Gray.

# CEANOTHUS.

# NEW JERSEY TEA.

two fl. drachms.

drachms.

two fl. drachms.

Sex. Syst. Pentand. trigyn. Nat. Syst. Rhamnaceæ.

Linn. Sp. Pl. 284. Griffith, Med. Bot. 218. The leaves and root are bitter and astringent, but the root is the most active. They have been used in a variety of cases, to which astringents are applicable.

# Decoction of New Jersey Tea.

R. New Jersey tea

water, two drachms. one pint.

Boil for a quarter of an hour, and strain. Said by Ferrein to be efficacious in gonorrhœa and syphilis; and by Dr. Hubbard, in dysentery; and also as a gargle in aphthous sore mouth, and in ulcerations of the fauces.

# CENTAUREA BENEDICTA.

# BLESSED THISTLE.

An annual plant, native of the south of Europe, and become naturalized in some parts of the United States.

Sex, Syst. Syngen. frust. Nat. Syst. Astera

ceæ.

Linn. Sp. Pl. 1296. Griffith, Med. Bot.

(Cnicus) 409.

The whole herb is used; it has a faint nauseous odor, and a very bitter taste. It is used as a tonic, diaphoretic, or emetic. Dose of powder, as tonic, a scruple to a drachm.

#### Infusion of Blessed Thistle.

R. Blessed thistle, two drachms and a half.
Boiling water, one quart.
Infuse for half an hour, and strain. As a diaphoretic.

Paris Codex.

R. Blessed thistle, half an ounce.
Cold water, one pint.
Infuse, and strain. As a tonic, in the dose of two fl. ounces.

Wood.

# Wine of Blessed Thistle.

R. Blessed thistle, one ounce and a half.

Columbo, three drachms.
Cinnamon, two drachms.
Wine, two pints.

Macerate for twenty-four hours, and strain.
Dose, one to four spoonfuls in the morning,

as a stomachic.

# CENTAURIUM.

#### CENTAURY.

The herbs or flowering heads of Erythrea centaurium, a small annual plant, indigenous to many parts of Europe.

Sex. Syst. Pentand. monog. Nat. Syst.

Gentianaceæ.

Linn. (Chironia) Sp. Pl. 332. Griffith,

Med. Bot. 459.

This plant is very bitter, and is analogous in its properties to gentian. In this country, its use has been superseded by the American centaury or sabbatia. Dose of the powder, from thirty grains to a drachm.

#### Portland Powder.

R. Centaury,
Germander,
Gentian,
Round aristolochia,
Ground pine,

equal parts.

Powder, and mix. Once highly celebrated in the cure of gout. Dose, one drachm.

# Bitter Species.

R. Germander,
Centaury,
Blessed thistle,

Used in form of infusion

Rania Coden

Used in form of infusion. Paris Codex.

# Extract of Centaury.

R. Centaury, one part.
Hot water, eight parts.

Macerate in one-half the water, express, and strain; repeat the process with the remainder of the water, unite the liquids, and evaporate. Paris Codex and Ph. Germ.

# Pills of Extract of Centaury.

R. Extract of centaury, one drachm.

Myrrh, two drachms.

Balsam of Peru, one scruple.

Mix, and form into pills of three grains.

Four, three times a day, as a tonic and stomachic.

St. Marie.

# Compound Wine of Centaury.

R. Centaury,
A pocynum,
Madder,
White wine,

Water, each, a pint and a half. Boil down to two-thirds, and add to the strained liquid

Syrup of orange peel, two ounces.

A cupful morning and evening, in jaundice.

A cupful morning and evening, in jaundice.

#### Mixture of Extract of Centaury.

R. Extract of centaury, one drachm.
Bitter almonds, two drachms.
Chamomile water, two ounces.
Rub well together, and strain. As a febrifuge.

Foy.

# CERA. WAX.

Cera Flava, or yellow wax, is a concrete substance, deposited by the honey bee, Apis mellifica.

Cera Alba, or white wax, is prepared from the yellow, by melting it, pouring into thin layers, wetting and turning frequently, and exposing to the air and light on frames.

Many plants yield a concrete principle called vegetable wax, which corresponds in many particulars with that of the bee.

Wax is much employed in pharmacy in the formation of cerates and plasters. It has also been used as a medicine, in the dose of a teaspoonful.

#### Waxed Cloth.

R. White wax,
Olive oil,
Turpentine,
Melt together, and spread upon linen or
muslin stretched in a frame. Used for
making blistering cloth, and vesicating
taffetas.

#### Wax Plaster.

R. Yellow wax,
Suet, each,
Resin,
one pound.

Melt with a moderate heat, and stir till
cold. Used to promote discharges from
blistered surfaces.

Lond. Ph. 1836.

#### Rose Lip Salve.

R. Oil of almonds, ninety parts.
Alkanet root, four parts.
Digest until sufficiently colored and add
White wax, sixty parts.
Spermaceti, ten parts.
Melt together, and flavor with

Oil of Bergamot,
Oil of lemon, each,

One part.

Ph. Germ.

R. White wax, one ounce.
Oil of almonds, two ounces.
Melt and add

Carmine,
Otto of roses, each, five grains.

Paris Codex.

# Simple Cerate.

R. Lard, eight troyounces.
White wax, four ounces.
Melt together, and stir constantly till cool.
U. S. Ph.

R. White wax, one part.
Oil of almonds, three parts.
Melt together, and stir till cold.

Paris Codex.

R. Olive oil, five parts.
Yellow wax, two parts.
Melt together, and stir till cold.

Ph. Germ.

Paris Codex.

#### Galien's Cerate.

R. White wax, one part.
Oil of almonds, three parts.
Rose water, three parts.
Heat the wax, oil, and one-half of the water
until the wax has melted, pour into a warm
marble mortar, and stir continually until
the mixture has nearly cooled; then add
the remainder of the water gradually, triturating, and beating until the whole is

# Simple Ointment.

thoroughly mixed.

R. Lard, eight troyounces.

Yellow wax, two troyounces.

Melt the wax, add the lard gradually, and stir while cooling.

U. S. Ph.

R. White wax,
Prepared lard,
Almond oil,
Melt and mix.

two ounces.
three ounces.
Brit. Ph.

# CERIUM.

CERIUM.

#### CERII OXALAS.

#### OXALATE OF CERIUM.

It is obtained by precipitating a solution of nitrate or of chloride of cerium by a solution of oxalate of ammonium.

A white powder, insoluble in water, alcohol, and ether, and almost tasteless. It is regarded as a sedative and tonic, and has been used in vomiting from various causes, particularly in the vomiting of pregnancy and uterine irritation. Dose, gr. j. to iii., thrice daily, in the form of powder or pill.

Simpson.

# Pills of Oxalate of Cerium.

R. Oxalate of cerium,
Extract of hops,
each, twenty-four grains.

Mix and form twelve pills.

Waring-Curran.

# CETACEUM.

#### SPERMACETI.

A peculiar concrete substance, obtained from the head of *Physeter macrocephalus*, or spermaceti whale. It is white, semi-transparent, friable, soft, somewhat oily to the touch, insipid, but with a faint odor. It has been used as a demulcent, and also enters into the composition of several ointments and cerates.

# Compound Powder of Spermaceti.

R. Spermaceti, two drachms.

Nitrate of potassium, one drachm.

Orris root,

Sugar, each, one ounce.

Powder well, and mix. A teaspoonful, three or four times a day, in catarrh.

Radius.

# Saccharated Spermaceti.

R. Spermaceti, one part. White sugar, three parts. Rub into a very fine powder. Ph. Germ.

## Spermaceti Mixture.

R. Spermaceti, two drachms.
Sugar, three drachms.
Paregoric elixir, half fl. ounce.
eight fl. ounces.

Rub spermaceti and sugar together with the yolk of an egg; add the water and paregoric gradually. A tablespoonful, several times a day. In catarrh. Ellis.

R. Spermaceti, half an ounce.
Gum Arabic, two drachms.
Syrup, half an ounce.
Water of bitter

almonds, one drachm. Water, two ounces and a half. Rub together, and strain. A dessertspoonful every two hours. In catarrh. Phæbus.

R. Spermaceti, two drachms.
Olive oil, one drachm.
Powdered gum
Arabic, half an ounce.

Water, four fl. ounces. Triturate the spermaceti with the oil, until reduced to a paste, then add the gum, and lastly the water, gradually. W. Procter.

R. Spermaceti, two drachms.
Yolk of egg, one.
Powdered gum Arabic, two
drachms.
Paregoric elixir, six fl. drachms.
Antimonial wine, four fl. drachms.
White sugar, three drachms.
Water, six fl. ounces.

Mix. Rub the spermaceti with the yolk of egg, then add the other ingredients separately; when well incorporated, introduce the water gradually. A tablespoonful every two or three hours to an adult. Useful in catarrh, especially of measles.

Dewees.

# Spermaceti Ointment.

R. Spermaceti, five ounces.

White wax, two ounces.

Almond oil, twenty fl. ounces.

Melt together with a gentle heat, and stir constantly until cool.

Mild dressing for open surfaces.

#### Ointment of Spermaceti and Rose Water.

R. Rose water,
Oil of almonds,
Spermaceti,
White wax,
Melt together, by a water-bath, the oil,

Melt together, by a water-bath, the oil, spermaceti and wax; add rose water, and stir till cold.

U. S. Ph.

A pleasant and cooling application to irritable surfaces, well known as cold cream.

## Cold Cream without Spermaceti.

R. White wax,
Oil of almonds,
Rose water,
Borax,
Oil of roses,
Oil of roses,
One ounce.
four fl. ounces.
two fl. ounces.
half a drachm.
five minims.

Dissolve the wax in the oil of almonds, by a gentle heat, also dissolve the borax in the rose water, and add the solution to the heated mixture, stirring till cold, then add the oil of roses.

Turnbull.

#### Spermaceti Cerate.

R. Spermaceti, one troyounce.
White wax,
Olive oil, five troyounces.

Melt wax and spermaceti together, then add the oil previously heated, and stir till cold.

U. S. Ph.

R. Spermaceti,
White wax, each,
Oil of almonds,
Melt together as above.
An excellent dressing for blisters, wounds,

## Spermaceti Lip Salve.

R. Spermaceti,

add the otto of roses.

White wax, each, half an ounce. Melt, and add

Oil of almonds, one ounce.

" lavender, twenty drops.

" bergamot, ten drops.

" cloves, two drops.

Rub well together.

Niemann.

R. Spermaceti, one ounce and a half.

White wax, nine drachms.
Oil of almonds, twelve ounces.
Alkanet root, two ounces.
Otto of roses, one drachm.

Digest the first four ingredients in the heat of a water-bath for four hours, strain, and

#### Spermaceti Liniment.

Gray.

R. Spermaceti,
White wax, each, half a drachm.
Oil of almonds, one ounce.
White lead,
Litharge, each, twenty grains.
Gum lac, sufficient.
Mix. As a cosmetic, but the presence of the lead requires it to be used with caution.

Pierquin.

#### Sultana Ointment.

R. Spermaceti, eight parts.
Butter of cacao, sixteen parts.
Oil of almonds, thirty-two parts.
Balsam of Peru, one part.
Melt together, and add

Orange-flower water, one part. Stir constantly till cold. Niemann.

R. Spermaceti,
White wax, each,
Oil of almonds,
Melt together, and add
one drachm and a half.
three ounces.

Rose water, two ounces.
Tincture of benzoin, thirty drops.
Mix well.

Taddei.

# CETRARIA.

## ICELAND Moss.

This is a lichen found in great abundance in the northern regions of both continents. Sex. Syst. Cryptog. lichen. Nat. Syst. Lichenaces.

When dried it is inodorous, but has a bitter, mucilaginous taste. It is demulcent, tonic, and nutritious, and is useful in pulmonary and other complaints, in which the local disease is attended with a debility of the digestive organs, or of the general system. Dose of the powder, thirty grains to a drachm.

#### Decoction of Iceland Moss.

R. Iceland moss, half an ounce.

Water, sufficient.

Boil with a pint of water, for fifteen minutes, express, strain, and add sufficient water to make a pint.

Brit. Ph. directs to obtain twenty fl. ounces from one ounce of Iceland moss.

To be taken during the twenty-four hours.

# Iceland Moss deprived of Bitterness.

R. Iceland moss, five parts.
Tepid water, thirty parts.
Liquid carbonate of
potassium, one part.

Macerate for three hours, strain, wash the
residue well, and dry. Ph. Germ.
This is merely a mucilaginous demulcent.

# Dry Iceland Moss Jelly. Saccharated Iceland Moss Powder.

R. Cut Iceland moss, sixteen parts.
Carbonate of potassium, one
part.

Macerate with water, sufficient to cover the Iceland moss, for twenty-four hours, express, and wash the residue with cold water until deprived of bitter taste; then add

Water, two hundred parts. Boil for four hours and strain. Repeat the boiling with a fresh portion of water, and add to the strained liquid

Sugar, six parts.

Evaporate, dry in thin layers, add sufficient sugar to make its weight equal to one-half of the preparation, and rub it into powder.

Ph. Germ.

#### Sweet Iceland Moss Jelly.

R. Saccharated Iceland moss powder,

Sugar, each, two ounces. four ounces. Water, Boil, remove the scum, and, while cooling,

Orange-flower water, two drachms. This will make seven ounces of jelly.

Paris Codex.

#### Bitter Iceland Moss Jelly.

R. Iceland moss, three parts. one hundred parts. Water, Wash the Iceland moss with cold water; then boil with the water for half an hour, express, strain, and add

three parts. Sugar, Evaporate with continual agitation to ten parts, and cool. Ph. Germ.

#### Iceland Moss Mixture.

R. Iceland moss, two ounces. Hartshorn shavings, one ounce. Water, one quart.

Boil down to a pint, strain, and add

Wine of opium, fifteen drops. In phthisis, to be taken during the day.

Brera.

R. Iceland moss, two drachms. Powdered salep, ten grains. cinnamon, eight grains. Water, twelve fl. ounces. Boil to six ounces, and add

sufficient. Syrup, Said to be useful in phthisis, leucorrhœa, and hooping-cough, in doses of four ounces, three or four times a day. Augustin.

R. Decoction of Iceland moss. seven fl. ounces and a half. Diluted sulphuric acid, fl. drachm. Syrup, four fl. drachms. Laudanum, fifty drops. Mix. A wineglassful three times a day, in phthisis. A. T. Thomson.

## Iceland Moss Chocolate.

Simple chocolate, ten parts. Saccharated Iceland moss powder, one part. Triturate together with the aid of heat, and form into cakes. Paris Codex.

#### Iceland Moss Troches.

R. Saccharated Iceland moss powder. ten parts. Powdered sugar, twenty parts. gum Arabic, one part. Form a mass with sufficient water, and divide into lozenges of fifteen grains each.

Paris Codex.

#### Cetrarine.

R. Iceland moss,

in coarse powder, one pound. Alcohol (.883), four pounds. Boil for half an hour, permit to cool, till no vapors are given off, express, and add to the fluid

Muriatic acid. three drachms, and four times its bulk of distilled water. Let rest for a night in a closed matrass; then decant, throw deposit on filter, and press; while still moist, wash with alcohol or ether; then treat with boiling alcohol, filter, and permit cetrarine to precipitate.

Herberger.

#### Powder of Cetrarine.

R. Cetrarine,

Gum Arabic, each, two grains. White sugar, half a scruple. Useful in intermittent fevers, in doses of eight grains every two hours during the Muller. apyrexia.

# CHELIDONIUM.

# CELANDINE.

The herb of Chelidonium majus, a perennial herbaceous plant, native of Europe, but generally naturalized in this country.

Sex. Syst. Polyand. polyg. Nat. Syst. Papaveraceæ.

Linn. Sp. Pl. 723. Griffith, Med. Bot. 130. Exudes, when broken, an orange-colored, fetid juice. Its taste is extremely bitter and acrid, leaving a burning sensation. The root is the most powerful. It has been used as a drastic hydragogue, and also in scrofula, etc. The dose of the dried root is half a drachm to a drachm; of the fresh juice, thirty to forty drops.

#### Extract of Celandine.

R. Juice of celandine, at will. Boil so as to coagulate; strain, evaporate to one-third, cool, filter, and evaporate.

Paris Codex.

R. Fresh flowering celandine, twenty parts. Bruise in a stone mortar, adding one part of water, express, add to residue three parts of water, and again express. Evaporate the mixed liquid at or below 175° to two parts, add two parts of alcohol, strain, and evaporate.

Ph. Germ.

Dose, five to fifteen grains, as a hydra-

gogue purgative.

### Pills of Celandine.

R. Extract of celandine,
Ammoniac, each,
and a half.
Soap,
one drachm.
Mix, and form pills of four grains. Two or
three a day, in engorgements of the viscera,
especially of the spleen.
Schubarth.

#### Extract of Celandine Mixture.

R. Extract of celandine, two drachms and a half.

"henbane, one scruple.
Sulphate of potassium, one ounce.
Tartar emetic, one grain.
Elder water, six fl. ounces.
Oxymel of squill, one fl. ounce.
Mix. A dessertspoonful every two hours, as a hydragogue.

Augustin.

# CHENOPODIUM.

#### WORMSEED.

This is the fruit of Chenopodium anthelminticum, a native plant, found in most parts of the country.

Sex. Syst. Pentand. digyn. Nat. Syst. Che-

nopodiaceæ.

Linn. Sp. Pl. 320. Griffith, Med. Bot. 537. The fruit is in small grains, of a greenish-yellow color, with a bitterish, aromatic, pungent taste, and a nauseous peculiar smell. Besides the fruit, the expressed juice of the whole plant is used, and the essential oil. They are all efficient anthelmintics. The first are given in the form of an electuary; the second in tablespoonful doses; the oil is given in the dose of five to ten drops to a child three years old.

# Decoction of Wormseed.

R. Fresh leaves of wormseed, one ounce.

New milk, one pint.
Orange-peel, two drachms.

Boil, and strain. Dose, a wineglassful twice a day.

#### Oil of Wormseed.

R. Bruised wormseed, at will. Sufficient

to cover the fruit; infuse for some hours, distil, and separate the oil. More commonly, however, the whole herbaceous portion is subjected to distillation.

Dose, from four to eight drops for a child, night and morning, for three or four days, to be followed by a cathartic. Coxe.

#### Wormseed Oil Mixture.

R. Oil of wormseed, one drachm.
Sugar,
Gum Arabic, each, one drachm
and a half.

Mix, and add

Mint water, two and a half fl. ounces.

A teaspoonful, four times a day for two days, to a child, to be followed by a purge.

Ellis.

R. Oil of wormseed, one fl. drachm and a half.
Castor oil, three fl. ounces.
Oil of anise, ten drops.
Mix, and add

Syrup of rhubarb, or

" of senna, one fl. ounce.

Mix. Dose, a teaspoonful night and morning, to a child two years old.

Am. Journ. Ph.

#### CHIMAPHILA.

#### PIPSISSEWA.

The leaves of Chimaphila umbellata, an evergreen plant, found in the northern portions of both continents.

Sex. Syst. Decand. monog. Nat. Syst. Pyrolaceæ.

Linn. (Pyrola) Sp. Pl. 568. Griffith, Med. Bot. 421.

Pipsissewa has a peculiar and rather pleasant odor, especially when fresh, and an astringent, bitter, and somewhat sweetish taste. It is tonic, diuretic, and astringent, and has been much used in nephritic complaints, dropsy, etc.

### Decoction of Pipsissewa.

R. Pipsissewa, one ounce.
Water, sufficient.
Boil for fifteen minutes, so as to obtain one pint, and strain.

U. S. Ph.
To be taken during the day, in dropsy and chronic affections of urinary organs.

# Alkaline Decoction of Pipsissewa.

R. Decoction of pipsissewa, one pint. Solution of carbonate of potassium, two drachms.

Foy. day, in same cases as above.

# Compound Decoction of Pipsissewa.

R. Pipsissewa, half an ounce to one ounce. Water, twelve fl. ounces.

Boil to six ounces, and add

Gin. two ounces. Let stand for two hours, and strain. Two tablespoonfuls four times a day, in dropsy. Radius.

R. Pipsissewa, six drachms. Water, twelve ounces.

Boil to six ounces, and add at close

two drachms. Strain. A tablespoonful every two hours as a diuretic. Radius.

# Fluid Extract of Pipsissewa.

R. Pipsissewa, in powder,

No. 50, sixteen troyounces. Glycerin, three fl. ounces. five fl. ounces. Water, Alcohol, eight fl. ounces.

Mix the liquids, moisten the powder with one-half of the mixture, pack in a glass percolator, add the other half, and macerate for four days; then with diluted alcohol displace twenty-four fl. ounces, reserving the first fourteen, add to the remainder one fl. ounce of glycerin, evaporate to two fl. ounces, and mix with reserved portion.

U. S. Ph.

Dose, a teaspoonful.

#### Extract of Pipsissewa.

R. Pipsissewa, one pound. Water, one gallon. Macerate for twenty-four hours, boil down to two pints, strain, and evaporate to proper consistence. Dose, ten to thirty grains.

Pipsissewa Pills.

R. Extract of pipsissewa, Resin of guaiacum, one drachm and a half. Precipitated sulph. of antimony, twelve grains. Beat together, and make pills of two grains. Dose, five, twice a day, in arthritic affections.

#### Pipsissewa Syrup.

R. Powdered pipsissewa, four ounces. Water, eight fl. ounces.

Mix. Four tablespoonfuls, three times a | Macerate for thirty-six hours, percolate so as to obtain a pint of fluid, evaporate onehalf, and add

> Sugar, twelve ounces. One to two tablespoonfuls at a time.

W. Procter.

Dr. I. Parrish.

# Pipsissewa Beer.

R. Pipsissewa, half a pound. Water, one gallon. Boil, strain, and add

Brown sugar, one pound. Powdered ginger, half an ounce. sufficient Yeast, to produce fermentation. When this has taken place, keep in well-stopped bottles. Dose, a half-tumblerful, three or four times a day. In strumous affections, especially

# CHIRETTA.

#### CHIRETTA.

This is the herb and root of Agathotes chirayta (Ophelia chirata), a native of the northern mountainous parts of India.

Sex. Syst. Pentand. digyn. Nat. Syst. Gen-

tianaceæ.

of the joints.

Don, Phil. Mag., 1836. Griffith, Med.

Bot. 462.

The whole plant is bitter, and the root most so; it is inodorous. It appears to have the same properties as gentian, and is applicable to the same cases. Dose, of powder, is twenty grains.

#### Infusion of Chiretta.

R. Chiretta, a quarter of an ounce. Distilled water at 120°,

ten ounces.

Infuse for half an hour, and strain.

Brit. Ph.

Dose, one to two fl. ounces as a simple tonic bitter.

#### Tincture of Chiretta.

R. Chiretta, cut small and bruised, two ounces and a half. Proof spirit, sufficient. Obtain by maceration, percolation, and expression one pint (twenty fl. ounces) of filtered tincture. Dose, half to two fl. Brit. Ph. drachms.

#### Fluid Extract of Chiretta.

R. Chiretta in powder,

sixteen troyounces. No. 50, Alcohol of 60 pr. ct., sufficient.

Macerate the powder for four days with one pint of the alcohol, displace slowly twenty-four fl. ounces reserving the first fourteen, evaporate the remainder to two fl. ounces and mix with reserved portion. Dose, ten to thirty minims.

# CHLORAL.

# CHLORAL HYDRATE.

It is prepared by passing for several days dry chlorine gas through absolute or stronger alcohol, until hydrochloric acid ceases to be produced; the mass is then treated with strong sulphuric acid, the oily layer which separates is distilled over a little lime, and the distillate is combined with the requisite quantity of water, and allowed to congeal, or else crystallized by fusion and slow refrigeration, or from one of its solvents.

It occurs in white crystalline masses, or in colorless transparent crystals, having a pungent aromatic odor and taste, readily dissolving in water and alcohol, affording clear solutions. It is likewise soluble in ether, petroleum-benzin, and sulphide of carbon. It fuses at about 135° F., and boils at about 207° F., evaporating without leaving any residue, and in the open air without combustion. Its aqueous solution faintly reddens blue litmus paper, and when acidulated with nitric acid, is not precipitated by nitrate of silver. Strong sulphuric acid separates oily chloral, but does not acquire a dark coloration.

As a hypnotic and anæsthetic, it has been used in a variety of diseases in doses of thirty to forty grains. It is given in aqueous solution flavored with some aromatic syrup.

# CHLORINIUM.

#### CHLORINE.

This is an elementary, gaseous fluid, of a greenish-yellow color, and a peculiar, penetrating smell. It has been used as an inhalation in a diluted state, in diseases of the lungs, and also as a fumigation in diseases of the liver, etc., and also as a disinfectant. The strong fumigation of the Ph. Germ. is chlorine gas, generated in the usual manner; for the weak chlorine fumigation chlorinated lime is mixed with water and vinegar added.

#### Chlorine.

R. Peroxide of manganese, one part.

Common salt, three parts.

Sulphuric acid,

Water, each, two parts.

Mix the acid and water, pour on the other substances in powder, and collect the gas under a receiver.

Paris Codex.

#### Chlorine Water.

R. Chloride of sodium, one drachm.
Sulphuric acid, two fl. drachms.
Red oxide of lead, three hundred
and fifty grains.

Water, eight fl. ounces. Rub the salt and oxide of lead together, put them into the water, add the acid, and agitate occasionally till the red oxide becomes almost white. Allow the insoluble matter to subside before using the liquid.

Ed. Ph. 1841.

U. S. Ph. and Brit. Ph. saturate thirtyfour to forty parts of distilled water, contained in a bottle of double the capacity,
with washed chlorine water evolved from
one part of black oxide of manganese, and
facilitate the absorption by agitating occasionally the loosely corked bottle.

To be kept in well-stopped bottles, and in the dark. Chlorine water is stimulant and antiseptic, and has been used in a variety of diseases. (See Dunglison's New Rem., 6th edit., p. 190, et seq.) The dose is from one to four fl. drachms, properly diluted.

# Chlorine Collutory.

- R. Chlorine water, half an ounce. Syrup of mallows, one ounce. Mix. In aphthous sore mouth. Radius.
- R. Chlorine water,
  Infusion of sage,
  Honey of roses,
  Mix. In same cases.

  half an ounce.
  six ounces.
  one ounce.

  Radius.

#### Chlorine Gargle.

R. Tragacanth,
Distilled water,
Chlorine water,
Syrup, each,
twelve grains.
four fl. ounces.

Mix. As a gargle in ulceration, and chronic inflammation of the mouth, and fauces.

#### Chlorine Injection.

R. Chlorine water, half a drachm. Distilled water,

one ounce and a half.

Extract of opium, fifteen grains.

Mix. As an injection in ulcers of the uterus.

Phæbus.

#### Chlorine Clyster.

R. Chlorine water, two drachms. Starch, four drachms.

Extract of opium, half a grain. Water, six ounces.

Mix. As an enema in the diarrhœa of consumptive patients. Cadet.

#### Chlorine Mixture.

R. Chlorine water,

two to four drachms. Decoction of mallows,

two ounces and a half.

Mix. A teaspoonful every hour, in softening of the stomach in children. Radius.

R. Chlorine water, one fl. drachm.
Lemon syrup, four fl. drachms.
Water, eight fl. drachms.
Mix. In scarlatina. Dose, ten to twenty
drops every six or eight hours. Tweedie.

R. Chlorine water, two ounces.
Syrup, six ounces.
Mix. A spoonful every two hours, in typhoid fevers.

Swediaur.

R. Chlorine water, two drachms. Strawberry water,

one ounce and a half.

Quince mucilage, Syrup of mallows,

each, six drachms.

Mix. A teaspoonful every two hours, to children in scarlatina. Radius.

#### Chlorinated Oil.

R. Olive oil, at will.

Pass a current of chlorine through it; at the end of two or three days, wash it with cold water. As an application to tinea and lepra.

Deimann.

#### Chlorine Ointment.

R. Chlorine water, one part.
Lard, eight parts.
Triturate well together. Employed in itch.
Augustin.

#### Chlorine Liniment.

R. Chlorine water, one fl. drachm. Olive oil, one fl. ounce.

Mix well. In itch, tinea, and herpes.

Deimann.

R. White wax, two drachms.

Melt by a gentle heat, and add

Almond oil, sufficient to make a liniment; on cooling, add

Chlorine water,

one drachm and a half.

As an application to foul ulcers. Ludwig.

# Inhalation of Chlorine.

R. Chlorinated lime, two ounces. Put in a suitable apparatus, moisten with water, and let the vapor that arises be inhaled.

Brit. Ph.

# CHLOROFORMUM.

# CHLOROFORM.—TERCHLORIDE OF FORMYL.

It is prepared by distilling a mixture of about one part of alcohol, four parts chlorinated lime, and twelve parts of water, washing the heavier portion of the distillate with water, then with sulphuric acid and again with water, and rectifying. It is a transparent, not inflammable, heavy fluid, of a peculiar, fragrant, ethereal, apple-like odor, and an intensely sweet taste. In large doses it is a narcotic poison; in medicine, a stimulant, sedative, antispasmodic anodyne, and anæsthetic; for which latter purpose it has attained much celebrity.

#### Purified Chloroform.

R. Commercial chloroform, one hundred troyounces. Sulphuric acid,

twenty troyounces. Stronger alcohol,

twel

twelve fl. drachms.

Carbonate of sodium,

five troyounces.
Lime in powder, half a troyounce.
Water, ten fl. ounces.

Agitate acid and chloroform occasionally during twenty-four hours; separate lighter liquid, and agitate for half an hour with solution of carbonate of sodium in water. Separate chloroform, mix it with alcohol, and when clear, transfer the heavy transparent layer into a dry retort, add lime, and distil at a temperature of not over 153° F. until one troyounce of residue is left in the retort.

U. S. Ph.

Its specific gravity is 1.480, boiling point 142° F. It contains a little alcohol, which prevents its decomposition when exposed to light and air. It does not impart any color to an equal bulk of sulphuric acid after agitating and leaving the two liquids in contact for twenty-four hours. It is perfectly neutral, and does not redden a drop of a neutral aqueous solution of litmus when a drachm of the chloroform is evaporated

with it, spontaneously. Purified chloroform, only is fit for inhalation. The usual dose, when inhaled, is a fl. drachm, to be increased in a few minutes, if no effect is produced. The best plan of inhaling is to twist a hand-kerchief into the form of a bird's nest, wet this with the chloroform, and apply it to the mouth and nose. The dose, internally, is from five to twenty minims.

R. Chloroform, Camphor lin C

#### Chloroform Mixture.

R. Purified chloroform, half a troyounce.

Camphor, sixty grains.
Yolk of egg, one.
Water, six fl. ounces.

Triturate the yolk, add gradually camphor dissolved in chloroform, then the water, and mix thoroughly. Dose, a teaspoonful to a tablespoonful.

U. S. Ph.

#### Chloroform Water.

R. Pure chloroform, half a drachm.
Alcohol, half an ounce.
Water, eight ounces.
Dissolve. Flavored with syrup in tablespoonful doses, in neuralgia, asthma, etc.

Bouchut.

#### Compound Tincture of Chloroform.

R. Pure chloroform, two fl. ounces.
Alcohol, eight fl. ounces.
Compound tincture of
cardamom, ten fl. ounces.
Mix. Dose and use similar to next.

Brit. Ph.

Spirit of Chloroform.

R. Purified chloroform, one troyounce.

Alcohol, twelve fl. ounces.

Dissolve. Dose, twenty to sixty minims.

U. S. Ph.

The spirit of Brit. Ph. is almost identical with this. It was formerly incorrectly

# Chloroform Liniment.

called "chloric ether."

R. Chloroform, three troyounces.
Olive oil, four troyounces.
U. S. Ph.

R. Chloroform, one part. Expressed almond oil, nine parts. Dissolve.

Paris Codex.

R. Chloroform,
Camphor liniment, each, two
fl. ounces.
Dissolve.

Brit. Ph.

# Chloroform and Aconite Liniment. (Compound Chloroform Liniment.)

R. Chloroform,
Tincture of aconite root,
each,
Soap liniment, twelve fl. ounces.
Mix.

Maryland Coll. Ph.

# Chloroform Ointment.

R. White wax, one drachm.
Lard, nine drachms.
Melt together, pour into wide-mouth vial,
and add

Chloroform, two drachms.

Cork the vial, and agitate until cold.

Paris Codex.

R. Spermaceti ointment, four drachms.

Olive oil, one drachm.
Oxide of zinc, half a drachm.
Chloroform, two fl. drachms.

Mix. Applied in irritable ulcer of rectum.

Curling.

# CHONDRUS.

#### IRISH MOSS .- CARRAGEEN.

The fronds of *Chondrus crispus*, a seaweed growing on rocks and stones in the seas of northern Europe, especially on the southern and western coasts of Ireland.

southern and western coasts of Ireland.

Sex. Syst. Cryptog. fuci. Nat. Syst. Ceramiaceæ.

Greville, Alg. Brit. 129. Dunglison, New

Rem. 6th ed. p. 210.

It is of a yellowish or purplish color, translucent, nearly tasteless, and scentless. It is nutritive and demulcent, and affords a useful article of diet to convalescents. It has also been recommended in scrofula, and bowel and pectoral affections. Before using, it should be soaked in cold water to remove any salt or other impurities.

#### Decoction of Carrageen.

R. Carrageen, sliced, half an ounce.
Water, three pints.
Boil for a quarter of an hour, express, and strain.

Béral.

one part.

New milk, nine fl. ounces.

Paris Codex.

Boil to five fl. ounces, strain, and add

Sugar, half an ounce to an ounce.
Bitter almond water, one scruple.
To be taken during the day. Gräfe.

R. Carrageen, four scruples. New milk, twenty-four fl. ounces. Boil for ten minutes, express, and add

Orange-flower water, one ounce and a half.

# Dry Carrageen Jelly. Saccharated Carrageen Powder.

R. Carrageen, ten ounces. Sugar, forty ounces.

Wash the carrageen with cold water, then boil with sufficient water for an hour, express, allow to settle, and decant; add the sugar, evaporate with continued agitation, dry in thin layers, and powder.

Paris Codex.

# Carrageen Jelly.

R. Carrageen, two drachms.

New milk, one pint.

Boil to consistence of jelly, strain, and add

Sugar, one ounce.

Bitter almonds, two.

Radius.

R. Saccharated carrageen

powder, four ounces.
Sugar, two ounces.
Water, ten ounces.

Rub together, boil, remove the scum, and add

Orange-flower water, half an ounce. It should weigh twelve ounces and a half. Paris Codex.

R. Carrageen, washed, one ounce.
Water, forty ounces.
Boil for half an hour, express, strain, and add

White sugar, two ounces. Evaporate, stirring continually, to ten ounces. Ph. Germ.

#### Carrageen Troches.

R. Saccharated carrageen
powder, five troyounces.
Powdered tragacanth, one scruple.
Mix. Flavor to suit, and with water form lozenges of thirty grains each. Mouchon.

# Carrageen Mixture.

R. Carrageen, half a drachm.
Water, sufficient

Sugar, half an ounce to an ounce. to obtain six ounces of mucilage; strain, Bitter almond water, one scruple, and add

Phosphate of sodium, one drachm and a half.

Syrup of opium, three drachms.

A spoonful, every two hours, in hemoptysis.

Clarus.

# CICHORIUM.

# SUCCORY.

The Cichorium intybus is a perennial herbaceous plant, indigenous to Europe, but naturalized in many places in this country. Sex. Syst. Syngen. æqual. Nat. Syst. As-

teraceæ

The whole plant is bitter, the root the most so. It is tonic, aperient, and deobstruent. The dried and torrefied root is used in Europe to mix with, or as a substitute for coffee.

# Extract of Succory.

R. Juice of succeory, at will. Evaporate to one-third, cool, filter, and evaporate to proper consistence.

Paris Codex.

Dose, from ten grains to half a drachm.

#### Infusion of Succory.

R. Dried succory, half an ounce.
Boiling water, two pints.
Infuse, and strain, and add

Syrup of maidenhair, one drachm.

Cottereau.

# Compound Syrup of Succory.

R. Juice of succory,

" dandelion,

" fumitory, each,

Sugar, one pound.

Boil to proper consistence, and strain.

Dose, one to two ounces. As a diuretic.

St. Marie.

# CIMICIFUGA.

## BLACK SNAKEROOT.

This is the root of Cimicifuga racemosa, a native, found in many parts of the United States, in shady places.

Sex. Syst. Polyand. di-pent. Nat. Syst. Ra-

nunculaceæ.

Torrey and Gray, Fl. 1. 36. Griffith, Med. Bot. 92.

The rhizome is thick, contorted, dark

brown, with numerous radicles. The odor is peculiar and unpleasant, and the taste bitter and somewhat astringent. It is acronarcotic, and is used in rheumatism, dropsy, pectoral affections, chorea, etc. The dose of the powder is a drachm, several times a day.

#### Decoction of Black Snakeroot.

R. Black snakeroot

(contused), one ounce.
Water, one pint.

Boil for a short time, and strain. Dose, one to two fl. ounces. Wood.

#### Tincture of Black Snakeroot.

R. Bruised black snakeroot, four ounces.

Alcohol, one pint.

Digest for fourteen days, and filter. Dose, twenty drops or more, three or four times a day.

Carson.

Used in rheumatic cases.

#### Fluid Extract of Black Snakeroot.

R. Black snakeroot, in powder,

No. 80, sixteen troyounces. Stronger alcohol, sufficient.

Moisten powder with four fl. ounces of the alcohol, pack in a percolator, add twelve fl. ounces of stronger alcohol, and macerate for four days. Then displace twenty-four fl. ounces, reserving the first fourteen, evaporate the remainder to two fl. ounces, and mix with reserved portion.

U. S. Ph.

Dose, ten to thirty minims.

# CINCHONA.

#### PERUVIAN BARK.

This is the bark of several species of Cinchona, all natives of South America. There are numerous varieties of this article used in medicine, but the state of our knowledge on the subject does not permit a reference of them to a particular species of the tree, except in a few cases. At the revision of the U. S. Pharmacopæia, in 1870, the yellow bark was referred to C. Calisaya, the pale bark to C. Condaminea, and C. Micrantha, and the red bark to Cinchona succirubra. (See Griffith, Med. Bot. 368.) Peruvian bark owes its properties to the presence of several alkaloids, called quinia, cinchonia, etc.

It is a bitter tonic and antiperiodic, and is used in a variety of diseases, and is given in a multitude of forms. The dose in powder as a febrifuge is a drachm, frequently repeated; as a tonic from ten to thirty grains. Its use is now much superseded by that of

quinia.

# Compound Powder of Peruvian Bark.

R. Powdered Peruvian bark,

Cremor tartar, each, one ounce.
Powdered cloves, one drachm.

Mix. A drachm and a half every two hours, in the apyrexia of fevers. Ellis.

R. Powdered Peruvian

bark, half an ounce.
Virginia snakeroot, one drachm.
Bicarbonate of sodium, two scrup.
Mix, and divide into four powders, one to
be given every two hours, in apyrexia of
obstinate intermittents.

Ellis.

R. Powdered Peruvian bark,

uva ursi, each, one or two drachms.

" opium, three grains.

Mix, and divide into six powders; one to be taken three or four times a day, followed by a draught of two ounces of lime water. Antilithic.

Ferriar.

R. Powdered Peruvian

bark, one ounce.
Tartar emetic, two grains.
Powdered opium, one grain.
Mix, and divide into eight powders; one to be taken every two hours.

Brera.

R. Powdered Peruvian bark, Sulphate of magnesium,

each, six drachms.

Mix, and divide into four powders. One every two hours, where purging is required, and at the same time a tonic impression to be made.

Ellis.

R. Powdered Peruvian

bark, thirty grains.

Aromatic powder, ten grains.

Make a powder, to be taken in a cup of milk every three hours. In convalescence from fevers.

A. T. Thomson.

# Powder of Peruvian Bark and Arnica.

R. Powdered Peruvian bark, equal

camphor, parts.

Mix. As an application to gangrenous ulcers. Cadet.

## Powder of Peruvian Bark and Cascarilla.

R. Powdered Peruvian

bark, two drachms. cascarilla, twelve grains.

Mix. In apyrexia of intermittents. Foy.

# Powder of Peruvian Bark and Camphor.

R. Powdered Peruvian

bark, half an ounce.

camphor, one scruple. gum Arabic,

drachms.

Mix. As an application to atonic ulcers. Ph. Gen.

# Peruvian Bark Dentifrice Powders.

R. Powdered Peruvian bark,

one ounce and a half. red saunders, half an ounce.

Oil of bergamot, Oil of cloves, each, twelve drops. Mix. Hufeland.

R. Powdered Peruvian

bark, three ounces. cremor tartar, each, sage leaves, half an

66 myrrh. ounce.

catechu, six drachms. Oil of cloves, sixteen drops. Mix. Hesse Ph.

R. Powdered Peruvian bark, one oz.

orris root, ) each,

sage leaves, > half an ounce. myrrh,

Mix. Fulda Disp.

R. Powdered Peruvian bark, two ounces.

chloride of ammonium, half an ounce.

orris root, one ounce.

66 catechu,

myrrh, each, six drachms.

twelve drops. Oil of cloves, Mix. Pideret.

#### Powder of Peruvian Bark and Valerian.

R. Powdered Peruvian

bark, two drachms. valerian, one drachm. Mix. Divide into four powders. In nervous disorders. Ratier.

## Powder of Peruvian Bark and Isinglass.

B. Powdered Peruvian

bark. one ounce.

Mix, and divide into sixteen powders. Dose, at first, from three to six a day, in passive menorrhagia, leucorrhœa, chronic diarrhœa, etc. Brera.

#### Peruvian Bark Mixture.

R. Powdered cinchona, half an ounce. Confection of opium, one drachm. two fl. drachms. Lemon juice, four fl. ounces. - Port wine,

Mix. A wineglassful every two hours, in the apyrexia of intermittent fever. Meigs.

R. Powdered cinchona, six drachms. Confection of opium, three drachms.

Cremor tartar, two drachms. six fl. ounces. Water,

Mix. A tablespoonful every hour. Dewees.

R. Powdered Peruvian bark,

two drachms. sixty drops. Wine of opium, Nitrate of potassium, five grains. Infusion of gentian, six fl. ounces.

Mix. An ounce every two hours.

Pierquin.

R. Powdered Peruvian

two drachms. bark,

Compound tincture of

bark, one fl. ounce.

Decoction of red bark,

three fl. ounces. half fl. ounce.

Mix. A tablespoonful every one or two hours in the apyrexia.

# Extract of Pale Cinchona.

R. Bruised pale bark, Alcohol, sp. gr. .893, four parts. Digest for twenty-four hours, express, strain, and repeat operation with two parts of alcohol of same strength. Distil the mixed tinctures and evaporate to proper consist-Ph. Germ. ence.

The vinous extract of Peruvian bark of some old pharmacopæias was made with

white wine in the same manner.

# Cold Prepared Aqueous Extract of Cinchona.

two parts. R. Bruised pale bark, twelve parts. Distilled water,

Macerate for two days, express, strain, and repeat operation with six parts of distilled water. Evaporate the clear mixed liquids to one and a half parts, cool, filter, and Isinglass, one drachm and a half. evaporate to proper consistence. Ph. Germ.

#### Extract of Yellow Cinchona.

R. Yellow bark in fine

twelve troyounces. powder, Alcohol, three pints. Water, sufficient.

Macerate the bark in twenty fl. ounces of alcohol for four days, and obtain tincture by displacement: When the liquid measures three pints, set aside and obtain six pints of infusion. Distil off alcohol from tincture, and evaporate infusion to the consistence of thin honey; mix, and evaporate to proper consistence. The extract of red bark is prepared in the same way. U. S. Ph. Dose, ten to thirty grains.

# Precipitated Extract of Cinchona.

R. Bruised yellow bark, two pounds. Distilled water, one gallon. half a fl. ounce. Muriatic acid. Boil and strain. Then boil the residue twice in an equal quantity of acidulated water. Mix the decoctions, filter, and add lime, while precipitation occurs. Wash the precipitate, exhaust it with hot alcohol, and evaporate by a water-bath, to a pilular consistence.

Dose, two to five grains. C. Ellis.

## Compound Bolus of Extract of Peruvian Bark.

R Extract of Peruvian bark, twenty grains. Nitrate of potassium, thirty grs. Confection of orange-

sufficient. peel, Mix, and form five boluses. Pierquin.

#### Compound Pills of Extract of Peruvian Bark.

R. Extract of Peruvian

bark, one drachm. Extract of opium, one grain. Camphor, twelve grains. Powdered Peruvian

sufficient. bark, Beat into a mass, and form twelve pills. One to be taken three or four times a day. Ellis.

R. Extract of Peruvian bark,

rhubarb, equal parts. gentian, blessed thistle,

Beat into a mass, and form pills of four grains. Dose, one or two, three times a Mix. To be taken in divided doses, during St. Marie. the day. day.

R. Extract of Peruvian bark, gentian, each, one drachm. Sulphate of iron, half a drachm. Powdered myrrh, one drachm. Oil of caraway, ten drops. Syrup of ginger, sufficient.

Beat well together, and divide into forty pills. Three to be taken three times a day. In the apyrexia of intermittents.

Thomson.

R. Extract of Peruvian

bark. two drachms. Powdered alum, one drachm. Syrup, sufficient.

Mix, and divide into thirty-six pills. Four to be taken every four or six hours. In A. T. Thomson. passive hemorrhages.

#### Decoction of Yellow Cinchona.

R. Yellow cinchona,

bruised, one ounce. Water, one pint.

Boil for fifteen minutes, strain, and add sufficient water to make a pint. Dose, U. S. Ph. two fl. ounces.

The decoction of red bark is prepared in the same manner; that of Brit. Ph. is of nearly the same strength.

R. Red cinchona, bruised, one ounce. Water, one pint.

Boil for ten minutes, and, while hot, add Virginia snakeroot, half an ounce.

Orange-peel, two drachms. Infuse for half an hour, near the fire, in a covered vessel. Dose, a wineglassful every Ellis.

#### Decoction of Cinchona Mixture.

R. Decoction of cinchona, six ounces. Tincture of cinchona, one ounce. Diluted sulphuric acid,

Syrup of orange-peel, half an ounce. Mix. A tablespoonful every hour or two.

R. Decoction of cinchona, eight ounces.

Infusion of arnica flowers, six ounces. two scruples. Camphor, Syrup of tolu, one ounce. Mucilage of gum, four ounces.

Brugnatelli.

### Decoction of Peruvian Bark and Cascarilla.

R. Peruvian bark,
Cascarilla,
Water,
Boil to eight ounces, express, and strain,
and add, when cold,

Sulphuric ether, two drachms.

Mix. Copenhagen Ph.

# Decoction of Cinchona and Rhatany.

R. Peruvian bark,

Rhatany, each, half an ounce.
Water, sufficient
to obtain nine ounces of decoction; strain,
and add

Vinous extract of
cinchona, four scruples.
Compound tincture
of cinchona, one fl. drachm.
Citron water, one fl. ounce.
Mix. In chronic diarrhea. Brera.

# Compound Decoction of Cinchona.

R. Bruised cinchona, one ounce.
Virginia snakeroot, half an ounce.
Orange-peel, two drachms.
Powdered cloves, one drachm.
Carbonate of potassium, one
drachm.

Mix. Put the mixture into a proper vessel, with three half pints of water, boil down gently to one pint; let settle, decant. Dose, a wineglassful every hour, for eight hours, in the apprexia.

Dewees.

#### Infusion of Yellow Cinchona.

R. Yellow cinchona, in

powder, No. 50, one troyounce.

Aromatic sulphuric

acid, one fl. drachm.
Water, sufficient.

Mix the acid with a pint of water; moisten the powder with half a fl. ounce of the mixture, pack firmly in a glass funnel and displace a pint, using the mixture, and afterwards water.

U. S. Ph.

Dose, one to two fl. ounces.

The infusion of red bark is prepared in the same manner.

R. Bruised yellow

cinchona, half an ounce (avoir.).
Boiling distilled water, ten fl.

Infuse for two hours and strain. Brit. Ph.
This represents twenty-two grains of cinchona in the fl. ounce, eight grains less than the preceding.

# Infusion of Cinchona and Serpentaria.

R. Bruised cinchona, ten drachms.
Boiling water, one pint.
Infuse for four hours, then boil for half an hour, then add

Virginia snakeroot, two drachms. Infuse for two hours, and strain. Saunders.

# Infusion of Cinchona and Magnesia.

R. Powdered cinchona, one ounce.

Magnesia, one drachm.

Boiling water, twelve fl. ounces.

Infuse for twelve hours, express, and strain.

Said to be more astringent than other infusions.

Van Mons.

# Compound Infusion of Cinchona.

R. Cinchona,

Juniper berries, each, one drachm.
Orange-peel,
Cinnamon, each,
Canella,
Ipecacuanha,
fifteen grains.

Boiling water, seven fl. ounces.

Infuse and strain, then add

Extract of juniper
berries, one drachm and a half.
In spoonful doses, in atonic dropsies.

Bories.

#### Infusion of Cinchona with Cantharides.

R. Infusion of cinchona, six fl. ounces. Tincture of cantharides,

opium, each, half a fl. ounce.

Mix. A teaspoonful or more, thrice daily, in chronic hooping-cough. Graves.

#### Fluid Extract of Cinchona.

R. Yellow cinchona in powder,

No. 80, sixteen troyounces. Glycerin, four fl. ounces. Alcohol,

ten fl. Prepare a mixture of half a pint of alcohol, ounces. three fl. ounces of glycerin, and five fl.

ounces of water; with five fl. ounces of it moisten the cinchona, pack into a glass percolator, add the remainder of the mixture and macerate for four days. Then percolate with diluted alcohol to obtain two pints of tincture, reserve the first fourteen fl. ounces, add to the remainder one fl. ounce of glycerin, evaporate to two fl. ounces, and mix with reserved portion.

Dose, ten to thirty minims. U.S. Ph.

R. Yellow cinchona in coarse

powder, one pound (avoir.).
Distilled water, sufficient.
Alcohol, one fl. ounce.

Macerate the cinchona with two pints of water for twenty-four hours, then displace, adding more water until twelve pints of infusion are obtained; evaporate this below 160° to a pint, filter, evaporate again to three fl. ounces, and when cool, stir in the alcohol. Specific gravity about 1.100.

Dose, ten to thirty minims. Brit. Ph.

# Electuary of Cinchona.

R. Powdered cinchona, one ounce.
Syrup of orange-peel, sufficient.
A teaspoonful every hour. Radius.
Powdered cloves or other aromatics may be added.

#### Astringent Electuary of Cinchona.

R. Powdered cinchona,

" orange-peel,

each, six drachms.

crabs' eyes,

two drachms.

Confection of red roses,

rose hips, each,

six drachms.

Syrup of catechu, sufficient.

Mix. Dose, one drachm, two or three times a day, in chronic diarrhœa.

Saunders.

# Electuary of Cinchona and Catechu.

R. Powdered cinchona, one ounce.

"catechu,
Balsam of tolu, each, one drachm.
Syrup of comfrey, sufficient.

Divide into ten doses, one to be taken twice or three times a day, in some appropriate vehicle. Much praised in hemoptysis.

Pierquin.

# Electuary of Cinchona and Tin.

R. Powdered cinchona, one ounce.

tin,

" valerian, each,

half an ounce.

Syrup, sufficient.

Mix. Dose, a drachm, morning and evening, in epilepsy.

Cadet.

# Electuary of Cinchona and Rhubarb.

R. Powdered yellow cinchona,

ten drachms.

" rhubarb, four drachms.

Chloride of ammonium,

two scruples.

Syrup, sufficient.

Mix. For twenty doses. Dorvault.

Compound bearing

Electuary of Cinchona and Iron.

R. Powdered cinchona, six drachms.

Vallet's mass,

Confection of opium,

each, two drachms. Syrup of cinnamon, sufficient.

Mix. Dose, a drachm, morning and evening, in ascites, after the evacuation of the fluid.

Cadet.

#### Tincture of Cinchona.

R. Yellow cinchona, in powder,

No. 50, six troyounces.

Alcohol,

Water, each, sufficient.

Mix three measures of alcohol with one of water, moisten the cinchona with two fluidounces, and displace two pints of tincture.

U. S. Ph.

The tincture of Brit. Ph. is almost of same strength, but made with a weaker alcohol of 0.920 specific gravity; that of Ph. Germ. is also nearly of same strength, but made with pale bark. The tinctures of gray, red, and yellow cinchona of the Paris Codex correspond with that of U. S. Ph.

Generally employed as an adjuvant to other preparations of bark, in the dose of one to four fluidrachms.

# Compound Tincture of Peruvian Bark. (Huxham's Tincture.)

R. Red cinchona, in powder,
No. 50, four troyounces.
Bitter orange-peel, in powder,
No. 50, three troyounces.

Virginia snakeroot, in powder, No. 50, six drachms. Alcohol,

Water, each, sufficient.

Moisten the mixed powders with four fl. ounces of a mixture of three measures of alcohol to one of water, and displace two pints and a half of tincture.

U. S. Ph.

R. Pale cinchona, in moderately fine powder, two ounces (avoir.)
Bitter orange-peel, cut and bruised, one ounce "
Serpentaria, bruised, half an ounce "
Saffron, sixty grains.
Cochineal, in powder,

thirty grains.

Proof spirit, sp.
gr. 0.920, one pint (Imper.)

Macerate the dry materials for forty-eight hours in fifteen fluidounces of the spirit, transfer to a percolator, add remaining five fl. ounces of spirit, and when fluid ceases to pass, express the contents of the percolator, filter the product, mix the liquids, and add enough proof spirit to make one pint imperial.

Brit. Ph.

R. Pale cinchona, bruised, six parts.
Bitter orange-peel, bruised,
Gentian, bruised, each, two parts.
Cinnamon, bruised, one part.
Alcohol, sp. gr. 0.892, fifty parts.
Digest for eight days, express, and filter.

Ph. Germ.
An excellent stomachic and useful adjunct to other preparations of bark. The last formula is Whytt's tonic elixir.

Dose, a teaspoonful to a tablespoonful.

# Tincture of Peruvian Bark and Valerian.

R. Tincture of Peruvian bark,

" valerian, each,
one fl. ounce.

" cardamom,
two fl. drachms.

Mint water, four fl. ounces.

Mix. A tablespoonful every three hours, as a tonic in nervous temperaments.

Ellis.

## Ammoniated Tincture of Cinchona.

R. Powdered cinchona, one ounce.
Ammoniated alcohol,

eight fl. ounces.

Macerate for eight days in a covered vessel, express, and filter.

Swediaur.

Mix.

#### Tincture of Bark and Cantharides.

R. Tincture of bark, three ounces.
Paregoric elixir, half an ounce.
Tincture of Spanish

flies, one drachm.

Mix. Used, it is stated, with great success, in hooping-cough. To be given in small doses, until a slight strangury is caused.

Sutcliffe.

# Cataplasm of Peruvian Bark.

R. Cataplasm of linseed meal, one pound.
Powdered Peruvian bark, four ounces.
Mix. Foy.

R. Powdered Peruvian bark, "charcoal,

each, one ounce.
camphor, one drachm
and a half.

Oil of turpentine, sufficient.

Mix. Phæbus.

These cataplasms are employed as applications to gangrenous ulcers, etc.

#### Cerate of Peruvian Bark.

R. Simple cerate, eight ounces. Camphor, one drachm and a half. Rub together, and gradually incorporate

Decoction of Peruvian one ounce.

An application to ill-conditioned ulcers. Van Mons.

#### Peruvian Bark Pomatum.

B. Extract of Peruvian

bark, half a drachm.
Oil of roses, two drops.

bergamot, eight drops.
Beef marrow, half an ounce.
Incorporate well. As an application to promote the growth of the hair. Phæbus.

# Clyster of Peruvian Bark.

R. Decoction of Peruvian
bark, four ounces.
Yolk of egg, one.
Powdered Peruvian
bark, three drachms.
Tincture of opium, twelve drops.
Mix.
Radius.

R. Extract of Peruvian

bark, half a drachm. Warm water, four fl. ounces.

Dissolve, and add

Olive oil, half a fl. ounce. Tincture of opium, ten drops.

Mix. To be administered every four hours, in the apyrexia of intermittents. Ellis.

# Gargle of Peruvian Bark.

R. Tincture of Peruvian bark,
Syrup of mulberries,
each, four fl. drachms.
Spirit of horseradish, one
fl. drachm.

Infusion of sage, six fl. ounces.

Mix. In obstinate sore throat, when active inflammation has subsided. Cadet.

# Lotion of Peruvian Bark.

R. Extract of Peruvian bark, Sulphuric ether, each, one drachm. Alcohol, seven drachms.

Mix. As a friction, three times a day, in weakness of the back. Augustin.

#### Peruvian Bark Beer.

R. Bruised Peruvian

bark, one and a half ounces.
Cinnamon, two drachms.
Grated nutmeg, seven drachms.
Yeast, two ounces.
Sugar, twenty-five ounces,
Water, one hundred fl. ounces.

Mix, and expose to a warm temperature. After fermentation, decant and strain. Three or four glasses to be taken during the apyrexia of intermittents.

Ferrara Ph.

# Syrup of Cinchona.

R. Powdered yellow

cinchona, four troyounces.
Alcohol of 30 per ct.,
Sugar, each, forty troyounces.

Water, sufficient.

Displace the cinchona first with the alcohol, then with water to obtain forty troyounces of tincture; distil off alcohol, cool, filter, and with the sugar make syrup weighing sixty-one troyounces.

Paris Codex.

# Vinous Syrup of Cinchona.

R. Extract of yellow

cinchona, half a troyounce.

Malaga wine, twenty-one troyounces and a half.

Sugar, twenty-eight troyounces.

Dissolve the extract in the wine, afterwards the sugar, and strain.

Dose, a tablespoonful.

Paris Codex.

The vinous syrup of pale cinchona is made in the same manner, using a troyounce of

extract.

# Syrup of Cinchona and Iron.

R. Vinous syrup of pale

cinchona, one hundred parts.

Ammonio-citrate of iron, one part.

Distilled water, two parts.

Dissolve the salt in the water, and mix with syrup. Paris Codex.

#### Wine of Cinchona.

R. Yellow cinchona,

bruised, three parts.

Alcohol of 60 per ct., six parts.

Macerate for twenty-four hours, and add

Red wine, one hundred parts.

Macerate for ten days, express, and filter.

Paris Codex.

Ph. Germ. directs five parts of Calisaya to one hundred of red wine.

Dose, one to two fluidounces.

# Compound Wine of Cinchona.

R. Bruised yellow cinchona, ten parts.

" bitter orange-peel,

" chamomile, each, one part.
Alcohol, of 80 per ct., ten parts.
Good white wine, ninety parts.
Macerate for ten days, express, and filter.

Dose, a tablespoonful. Paris Codex.

#### Wine of Cinchona and Iron.

R. Pyrophosphate of iron, ten parts.
Extract of pale cinchona, five parts.
White wine, one thousand parts.
Dissolve and filter. Dose, a tablespoonful or two.

Robiquet.

# Aromatic Fluid Extract of Cinchona.

R. Yellow cinchona,

Calamus, Cardamom, Ginger, sixteen troyounces. two hundred and fifty-six grains.

drachms.

Displace the cinchona in fine powder with diluted alcohol until four pints of tincture have been obtained; reserve the first pint, distil and evaporate the remainder to six fluidounces, dissolve in it the sugar, add the reserved portion and strain while hot. Make up to two pints with tincture obtained by percolating the finely powdered aromatics with alcohol.

Each teaspoonful represents thirty grains of Calisaya bark and one grain of each of the aromatics. Squibb.

# Elixir of Calisaya.

R. Yellow cinchona, one troyounce. four drachms. Orange-peel, Coriander, two drachms. Cochineal, one drachm.

Displace the finely powdered articles with a mixture of twelve measures of deodorized alcohol and ten of water until twenty-twe fluidounces are obtained, add twenty grains of tartaric acid and five fluidounces each of glycerin and syrup, and after standing a Newark Ph. Assoc. day, filter.

Each fluidounce represents fifteen grains

of Calisaya bark.

## CINCHONIA.

#### CINCHONIA.

An alkaloid existing in Peruvian bark;

most abundant in the pale kinds.

It is obtained from the mother waters, from which sulphate of quinia has been crystallized, by rendering them alkaline with soda, washing the precipitate with small quantities of cold alcohol to remove other alkaloids, dissolving residue in diluted sulphuric acid, decolorizing solution with animal charcoal, and crystallizing. By redissolving the crystals in acidulated water, precipitating with ammonia, washing with water and crystallizing from hot alcohol, cinchonia is obtained in white translucent crystals, which are almost insoluble in water, ammonia water, and ether, and have a bitter taste.

Tartrate of cinchonia is obtained by precipitating solution of sulphate of cinchonia with tartrate of potassium; picrate and tan-nate of cinchonia are deposited on adding picric or tannic acid to solution of sulphate of cinchonia; sulphate, muriate, nitrate, phosphate, and kinate of cinchonia are pre-pared by saturating the warm diluted acid with the alkaloid, and crystallizing.

#### Pills of Cinchonia.

R. Cinchonia, Confection of roses, sufficient. the day.

Sugar, nine troyounces and five Mix, and form twenty-four pills. Dose, two to eight.

# Pills of Sulphate of Cinchonia.

R. Sulphate of cinchonia, half a drachm. Confection of roses, sufficient. Mix, and make thirty pills. Dose, one to eight.

#### Bolus of Cinchonia.

R. Sulphate of cinchonia, three grains. Crumb of bread, each, sufficient. Liquorice, Mix, and form a bolus. One every two

# Syrup of Cinchonia.

R. Sulphate of cinchonia, forty-eight grains. one pint. Syrup, Mix. A tablespoonful is a dose. Cadet.

R. Sulphate of cinchonia, twenty-four grains. Orange-flower water, two fl. drachms. Syrup, twelve fl. ounces.

#### Wine of Cinchonia.

Giordano.

Mix. As above.

R. Sulphate of cinchonia, twenty-four grains. Madeira wine, two pints. Make solution, and filter. Dose, one to four ounces. Cottereau.

#### Tincture of Cinchonia.

R. Sulphate of cinchonia, twelve grains. Alcohol, one ounce. Dissolve. Dose, a teaspoonful. Foy.

# Mixture of Sulphate of Cinchonia.

three R. Sulphate of cinchonia, grains. Peppermint water, three ounces. Syrup of capillaire, one ounce. one scruple. Mix. To be taken in four doses, during Cadet.

# CINNAMOMUM.

#### CINNAMON.

This is the bark of Cinnamomum Zeylanicum, and C. aromaticum, and also, perhaps, of other species; all natives of various parts of the tropical regions of Asia. That most commonly used in this country is what is termed cassia, in commerce, and is imported from China.

Sex. Syst. Enneand. monog. Nat. Syst. Lauraceæ.

Nees, Laurineæ. 52. Griffith, Med. Bot.

Chinese cinnamon is in tubular pieces, of a light brownish-red color, of an aromatic, warm, agreeable taste, and of a fragrant, peculiar smell. Ceylon cinnamon occurs in quills consisting of six or more strips of thin bark convoluted around each other; it is much lighter in color, and more agreeable in odor and taste; it is the only kind recognized by *Brit. Ph.* Both kinds are warm cordial stimulants, and astringents.

Dose, in powder, ten grains to a scruple.

# Compound Powder of Cinnamon.

R. Powdered cinnamon,

" cardamom seeds,

" ginger, each, one ounce.

Mix thoroughly. Brit. Ph.

R. Powdered cinnamon, five parts.

" cardamom fruit, three

parts.

" ginger, two parts.
roughly. Ph. Germ.

Mix thoroughly. Ph. Germ. Stimulant, and carminative. Dose, ten to thirty grains, in debility of the stomach, with flatulence. See also Aromatic Powder, page 206.

R. Powdered cinnamon, twenty

" cloves, twelve grains.

" vanilla, six grains.
Rice flour, six drachms.
Sugar, half an ounce.

Mix. Dose, six grains to a scruple.

Spielmann.

#### Cinnamon Lozenges.

R. Powdered sugar,

Cinnamon water, each, six ounces.

Boil to syrup, and add

Powdered sugar, one pound.
Oil of cinnamon, one drachm and a half.

Mix, make lozenges, and dry. Taddei. have been obtained.

# Compound Electuary of Cinnamon.

R. Confection of orange-peel,

three ounces.

nutmeg, one ounce

and a half.

" ginger, six drachms.

Powdered cinnamon, half an ounce.

Syrup of orange-peel, sufficient.

Mix. Swediaur.

#### Infusion of Cinnamon.

R. Bruised cinnamon, half an ounce. Boiling water, two pints.

Infuse. In dyspepsia and nervous colics.

Radius.

# Compound Vinegar of Cinnamon.

R. Cinnamon, Cloves, each, one drachm.

Nutmeg, )
Peppermint, half an ounce.

Lavender,

Rosemary, each, one ounce.

Vinegar, eight fl. ounces. Diluted alcohol, twenty fl. ounces.

Mix, and distil twenty-eight ounces. Used as an aromatic. Van Mons.

## Wine of Cinnamon.

R. Powdered cinnamon, one troyounce Malaga wine, a pint.

Macerate for a week, and filter. Béral.

# Compound Wine of Cinnamon.

R. Powdered cinnamon,

Cloves, Mace, each, half a drachm.

Cardamom,

White wine, two pints.

Digest, filter, and add

Sugar, ten ounces.

As a cordial stomachic and stimulant.

Augustin.

#### Tincture of Cinnamon.

R. Cinnamon in powder,

No. 60, three ounces.

Alcohol,

Water, each, sufficient.

Displace with a mixture of two measures of alcohol to one of water, until two pints have been obtained.

U. S. Ph.

Dose, one to four fl. drachms.

A fluidounce represents forty-five grains, that of *Brit. Ph.* about fifty-four, and that of *Ph. Germ.* and *Paris Codex* about ninety grains of cinnamon.

# Compound Tincture of Cinnamon.

R. Bruised cinnamon, one ounce.

"eardamom, half an ounce.

"ginger, three drachms.

Diluted alcohol, two pints.

Macerate for fourteen days, express, and filter. U. S. Ph. 1840.

A warm, aromatic tincture, useful in flatulence, gastrodynia, etc. Dose, one to two fl. drachms.

R. Cinnamon,
Cardamom,
Cloves,
Galagal,
Ginger,

Ginger,

Comparise four parts.

four parts.

four parts.

Alcohol (0.892), fifty parts. Digest for eight days, express, and filter. This is the aromatic tincture of Ph. Germ.

# Tincture of Cinnamon Gargle.

R. Tincture of cinnamon, one part.
Syrup of currants, two parts.
Peppermint water, sixteen parts.
Mix. In malignant sore throat. Foy.

#### Ethereal Tincture of Cinnamon.

R. Bruised cinnamon, three drachms.

cardamom, half an ounce.

angelica, one drachm and a half.

" long pepper, one drachm.
Sulphuric ether, five fl. ounces.
Diluted alcohol, ten fl. ounces.

Macerate for eight days, express, and filter. Stomachic and carminative. Dose, thirty to fifty drops.

Niemann.

#### Spirit of Cinnamon. Essence of Cinnamon.

R. Oil of cinnamon, one fl. ounce. Stronger alcohol, fifteen fl. ounces. Dissolve.

Dose, twenty to thirty minims. U. S. Ph.

R. Powdered cinnamon, one part.
Alcohol of 80 per ct., eight parts.

Macerate for four days, add some water, and distil in water-bath eight parts.

Paris Codex.

Dose, a teaspoonful.

The compound spirit of cinnamon of Paris Codex contains twenty-two aromatics.

#### Cinnamon Water.

R. Oil of cinnamon, half fl. drachm.
Carbonate of magnesium, one
drachm.
Distilled water, two pints.
Rub the oil with the magnesia, and both
with the water, and filter.

U. S. Ph.

R. Cinnamon in

powder, No. 20, nine troyounces. Water, eight pints.

Macerate, and distil four pints. U. S. Ph. Cinnamon water of Brit. Ph. is of same strength. Paris Codex distils from one part of cinnamon four parts, and Ph. Germ. ten parts of water.

Mostly employed as a vehicle or adjuvant to other medicines; the distilled cinnamon

water is most pleasant.

#### Spirituous (Vinous) Cinnamon Water.

R. Bruised cinnamon, one part.
Alcohol, sp. gr. 0.892, one part.
Water, ten parts.
Macerate, and distil five parts. Ph. Germ.

More stimulating than the former.

# Syrup of Cinnamon.

R. Cinnamon, bruised, two parts.
Spirituous cinnamon

water, twelve parts.
Rose water, two parts.

Macerate for two days, and in eleven parts of the filtrate dissolve

Sugar, eighteen parts.

Ph. Germ.

#### Oil of Cinnamon.

R. Bruised cinnamon, five parts.
Water, twenty parts.
Macerate for two days, and add

Sea salt, one part.

Distil five parts, separate the oil, return the distilled water, and distil again; repeat this operation as long as any oil is obtaind.

Paris Codex.

# Cinnamon Spice Plaster.

R. Olibanum, three ounces.
Yellow wax, half an ounce.
Powdered cinnamon, six drachms.

Oil of pimento,

"lemons, each, two drachms.

Melt the wax and olibanum, and add the cinnamon, rubbed with the oils. Coxe.

#### COCCULUS.

## Cocculus Indicus.

This is the fruit of Anamirta cocculus, a woody vine, native of the East Indies.

Sex. Syst. Diec. dodecand. Nat. Syst.

Wight and Arnott, 1, 446. Griffith, Med.

Bot. 105.

Menispermaceæ.

The berries are about the size of a pea, roundish kidney shaped, with a thin, dry, blackish, external coat, inclosing another of a lighter color, containing an oily, bitter, white kernel. They are inodorous, but of a permanent, bitter taste. They are acro-narcotic, and owe their properties to the presence of a peculiar principle, called picrotoxin. They are seldom used in medicine.

#### Ointment of Cocculus Indicus.

R. Cocculus indicus, at will.

Separate the kernels, beat them in a mortar; first alone, then with a little lard; finally, add lard equal to five times the weight of kernels.

Ed. Ph.

Used for the destruction of vermin, and in the treatment of ringworms and scabies

of the scalp.

### Ointment of Picrotoxin.

R. Picrotoxin, six grains.
Lard, one ounce.

Mix well. In tinea.

Radius.

## COCCUS.

## COCHINEAL.

Cochineal is a small, hemipterous insect, inhabiting Mexico and some parts of South America, living principally on different species of cactus, and especially the *Opuntia cochinillifera*. It is in grains of a reddishblack color, often covered with a white powder. It has a feeble odor, and a bitterish, somewhat acidulous taste. The powder is of a reddish-purple color, tinging fluids of a deep red. It is said to be somewhat anodyne and antispasmodic, but is principally used as a coloring agent.

#### Tincture of Cochineal.

R. Powdered cochineal, two ounces and a half.

Proof spirit, twenty fl. ounces.

A spoon antiscorbutic.

Macerate seven days, express, and filter.

Brit. Ph.

Advised in convulsive coughs. Dose, twenty drops to a fl. drachm.

# Mixture of Cochineal and Carbonate of Potassium.

R. Carbonate of potassium, one scruple.

Powdered cochineal, half a scruple.
Sugar, one drachm.
Distilled water, four fl. ounces.

Make mixture. Dose, for children, a teaspoonful, every two or three hours. A

highly popular remedy in hooping-cough.

## Mixture of Cochineal and Common Salt.

R. Common salt, three drachms.

Powdered cochineal, fifteen grains.

Divide into six doses. One to be taken every morning, the last followed by a purge.

As a vermifuge.

Rush.

# COCHLEARIA.

#### SCURVY GRASS.

Scurvy grass is the Cochlearia officinalis, an herbaceous plant, native of the northern parts of Europe, and cultivated there and in the United States as a garden herb.

Sex. Syst. Tetradyn. silic. Nat. Syst. Bras-

sicaceæ.

Griffith, Med. Bot. 131.

The whole herb is used; it has a penetrating and acrid smell when bruised, and a pungent, bitter taste. It is antiscorbutic, aperient, and diuretic.

## Conserve of Scurvy Grass.

B. Fresh scurvy grass, one part.
Sugar, three parts.
Beat together into a pulp and pass through a hair sieve. Dose, a teaspoonful.

Paris Codex.

## Electuary of Scurvy Grass.

R. Conserve of scurvy
grass, one ounce and a half.
Calamus, one drachm.
Syrup of orange-peel,
Aromatic sulphuric
acid, each, sufficient.
Mix. A spoonful every two hours, as an

Augustin.

Spirit of Scurvy Grass.

R. Fresh scurvy grass, cut, eight parts.

Alcohol, Water, each, three parts. Macerate, and distil four parts. Ph. Germ.

# Compound Spirit of Scurvy Grass.

R. Fresh scurvy grass, cut, thirty parts. Fresh horseradish, cut, four parts. Alcohol, sp. gr. 0.864, thirty-five

Macerate and distil thirty parts.

Paris Codex. Used in gargles, and internally in doses of twenty to sixty minims, in an appropriate liquid.

Gargle of Scurvy Grass.

R. Spirit of scurvy grass, one drachm. Syrup of Peruvian bark, half an ounce. Infusion of water cress, eight ounces. Foy.

Mix. As a gargle in scurvy.

# CODEIA.

#### CODEIA.

An alkaloid obtained from opium, and bearing the same relation to morphia that cinchonia does to quinia. It is precipitated by tannin, and is soluble in ether, alcohol, and eighty parts of water, but is not thrown down from a dilute solution of its salts by ammonia. It acts somewhat like morphia, but is said to produce itching of the skin. Dose, half a grain to two grains.

# Codeia.

R. Mother-water of morphia

(by Gregory's process), at will. Evaporate and crystallize; dissolve the crystals, and recrystallize. Treat with solution of potassa, which dissolves the morphia and precipitates the codeia; wash the latter with a little water, dissolve in hot ether, add a little water, and suffer the solution to evaporate spontaneously.

Paris Codex.

Syrup of Codeia.

R. Codeia, twelve grains. Distilled water. drachms. sixty-six drachms.

Dissolve codeia in water by aid of heat, then add sugar and dissolve. Paris Codex.

A teaspoonful contains one-sixth, a tablespoonful nearly two-thirds of a grain.

Dose, a teaspoonful night and morning, gradually increased in neuralgic irritation of the stomach, hooping-cough, etc.

# Muriate of Morphia and Codeia.

R. Opium, at will. Treat with water, add a strong solution of chloride of calcium, filter with animal charcoal, evaporate, and crystallize.

Magendie.

Dose, half a grain to a grain.

# COFFEA.

#### COFFEE.

Coffee is the product, principally, of Coffea Arabica, a small tree, native of the eastern coast of Africa, but now cultivated in most tropical regions. The varieties are very numerous, and in some cases probably are de-

rived from other species.

Sex. Syst. Pentand. monog. Nat. Syst.

Cinchonaceæ.

Linn. Sp. Pl. 245. Griffith, Med. Bot. 361. Raw coffee has febrifuge properties, and has been used with success in the treatment of intermittents. In a roasted state it acts on the nervous system, producing wakefulness, and also somewhat excites the circulatory system. It is said to be useful in periodic asthma, and is an efficient antiemetic. Its active principle, caffeina, is crystallizable.

# Decoction of Raw Coffee.

R. Raw coffee, one ounce. Water, eighteen fl. ounces. Boil to two-thirds, strain, and add

Lemon juice, two fl. ounces. To be taken warm, during the apyrexia.

#### Vinegar of Coffee.

R. Roasted coffee, ground, three ounces.

Vinegar, twelve ounces.

Boil, strain, and add

one ounce and a half. Sugar, Two spoonfuls occasionally, in poisoning by opium, after the evacuation of the poison. Pierquin.

# Syrup of Coffee.

thirty-four R. Coffee, roasted, four ounces. Water, two pints. three pounds. Refined sugar,

Infuse the coffee in a pint and a half of the The first is of a brown color externally, water for six hours, boil in a water-bath, let settle, decant, and add remainder of the water. Let stand for some hours; decant, add sugar, form syrup, and strain. Dose, from one ounce to two. Ferrari.

## COFFEINA.

#### CAFFEINA.

# Hypodermic Injection of Caffeina.

R. Caffeina. six grains. Alcohol,

Distilled water, each, one fl. drachm. Dissolve the caffeina in the alcohol and add the water. Used hypodermically in neuralgia in doses of five or ten minims, containing one-fourth or one-half of a grain of caffeina; and in opium narcosis in the dose of twenty minims, containing one grain of caffeina. Eulenburg.

#### Citrate of Caffeina.

R. Caffeina, at will. Solution of citric acid, sufficient to saturate. Dissolve at a temperature of 212° F., evaporate, and crystallize.

This salt is very soluble. Dose, one to

three grains.

#### Pills of Citrate of Caffeina.

R. Citrate of caffeina, eight grains. Extract of dog grass,

(Triticum repens), fifteen grains. Mix, and divide into ten pills. Dose, one pill every two hours in sick headache.

Hannon.

# Syrup of Citrate of Caffeina.

R. Citrate of caffeina, five drachms. Simple syrup, eight fl. ounces. Dissolve.

Dose, a teaspoonful every two hours, in sick headache. Hannon.

# COLCHICUM.

#### COLCHICUM.

The Colchicum autumnale, or meadow saffron, is a bulbous plant, a native of most parts of Europe, flowering in the autumn, and putting forth its leaves and perfecting its seed the succeeding spring.

Sex. Syst. Hexand. monog. Nat. Syst. Me-

lanthaceæ.

Linn. Sp. Pl. 485. Griffith, Med. Bot. 644. The parts used are the corm and the seeds.

white within, rounded on one side, concave on the other, of scarcely any smell, but an acrid, bitter taste; the seeds are small, rounded, of a brownish-yellow color, and of the same taste as the bulb. They owe their properties to the presence of colchicia.

Colchicum is principally used in the various forms of gout and rheumatism. It is an active irritant, and in large doses, acronarcotic. The dose of the powdered bulb is two to eight grains, every four or six hours;

that of the seeds much the same.

#### Extract of Colchicum.

R. Fresh colchicum bulb, at will. Bruise in a stone mortar, express juice, decant, heat to boiling, strain, and evaporate to proper consistence. Brit. Ph.

Dose, one or two grains.

#### Acetic Extract of Colchicum.

R. Fresh colchicum corm, seven pounds (avoir.). Acetic acid, six fl. ounces. Bruise, gradually adding acid, express, decant, heat to boiling, strain, and evaporate, below 160°, to proper consistence.

Brit. Ph.

R. Colchicum root, in powder,

twelve troyounces. No. 50, four fl. ounces. Acetic acid, a sufficient quantity. Water, Mix the acid with a pint of water, and pour

on the root. Transfer to a percolator, and add water until the liquid passes tasteless. Then evaporate to proper consistence.

U. S. Ph.

Dose, one to two grains, two or three times a day.

#### Alcoholic Extract of Colchicum Root.

R. Colchicum root, in

powder, one part. Alcohol, sp. gr. 0.914, six parts. Macerate in a percolator for twelve hours, displace, adding finally water, until a tur-bidity is produced in the tincture; distil this, and evaporate to proper consistence.

Paris Codex.

Dose, one to two grains.

## Extract of Colchicum Seed.

R. Powdered colchicum

one part. seed. Alcohol, sp. gr. 0.914, three parts.

Digest for several hours, and express; repeat operation with same quantity of alcohol, filter the mixed tinctures, distil and evaporate to an extract; dissolve in four times its weight of cold water, filter, and | Macerate for six days, and filter. Taddei. evaporate to proper consistence.

Paris Codex.

Dose, one-half to one grain.

## Colchicum Pills.

R. Acetic extract of fifteen grains. colchicum, Marshmallow root, sufficient. Make ten pills. Dose, one to five a day until purgative effect is produced.

Scudamore.

# Compound Colchicum Pills.

R. Acetic extract of colchicum, three grains. Dover's powder, Compound extract of colocynth, each, one grain. Mix, and make a pill. In gout, after having taken, for some days, thirty to forty drops of colchicum wine, morning and evening. Halford.

# Lartigue's Pills.

R. Extract of colchicum root. two grains. Extract of foxglove, one grain. col. comp., twenty grs. Mix, and form five pills. One at night, in Lartigues. gout.

#### Wine of Colchicum Root.

R. Colchicum root, bruised, twelve troyounces. Sherry wine, sufficient. Displace two pints. U. S. Ph. Wine of colchicum of Brit. Ph. is about one-half this strength.

#### Wine of Colchicum Seed.

R. Colchicum seed, in powder, No. 40, four troyounces. Sherry wine, two pints. Macerate for seven days, express, and filter. U. S. Ph.

Wine of colchicum, Germ. Ph., is about

four-fifths this strength.

The dose of the first, which is a saturated wine of the root, is from ten drops to half a fl. drachm; for the second, half to one fl.

R. Colchicum seed, bruised, three ounces.

Sherry wine, deprived of its spirit by evaporation, two pints.

This is said to be the formula of the Eau medicinale of Husson.

### Tincture of Colchicum Seed.

R. Colchicum seed, in powder, four troyounces. No. 50, Diluted alcohol, sufficient. Displace slowly two pints. U. S. Ph. Tincture of Brit. Ph. is of about same strength.

R. Colchicum seed, bruised, one part. Alcohol, sp. gr. .892, ten parts. Digest for eight days, and filter.

Ph. Germ. Dose from half to one fl. drachm. Sometimes used as an embrocation in gout, rheumatism, and neuralgia.

# Ethereal Tincture of Colchicum Seed.

R. Colchicum seed, bruised, four ounces.

Spirit of nitrous ether, two pints. Digest for ten days and filter. The advantage claimed for this preparation is a greater tendency to act on the kidneys.

Dose, twenty to thirty drops. Mettauer.

## Compound Tincture of Colchicum Seed.

R. Colchicum seed, bruised, five ounces.

Aromatic spirit of ammonia, two pints. Macerate for seven days, express, and filter. Lond. Ph.

More stimulating than the last. Dose, thirty drops to a fl. drachm.

#### Tincture of Colchicum Flowers.

R. Dried colchicum flowers, one ounce. Diluted alcohol, one pint. Macerate for eight days, express, and filter. Advised in acute rheumatism.

#### Tincture of Colchicum Root.

R. Colchicum root, bruised, one part. Alcohol, sp. gr. 0.914, five parts. Macerate for ten days, express, and filter. Paris Codex. Dose, half to one fl. drachm.

# Vinegar of Colchicum Root.

R. Dried colchicum root, one part. White vinegar, twelve parts. Macerate for eight days, express, and filter.

Paris Codex.

As a diuretic in dropsy; also given in gout, rheumatism, etc. Dose, thirty drops to two fl. drachms.

# Oxymel of Colchicum.

R. Vinegar of colchicum

root, one part.
Honey, four parts.
Boil to sp. gr. 1.26, clarify with paper pulp, and strain.

Paris Codex.

R. Vinegar of colchicum
seed, one part.
Clarified honey, two parts.
Mix, evaporate to two parts, and strain.
Ph. Germ.

# Vinegar of Colchicum Seed.

R. Colchicum seed, one part.

Distilled vinegar, four parts.

Macerate a month, and filter.

Béral.

R. Bruised colchicum seed, one part.
Alcohol, one part.
Dilute acetic acid, nine parts.
Digest for eight days, express, and filter.
Ph. Germ.

# Syrup of Colchicum.

R. Vinegar of colchicum
root, sixteen parts.
Sugar, twenty-six parts.
Boil by a gentle fire.

Swediaur.

#### Fluid Extract of Colchicum Root.

R. Colchicum root, in powder,

No. 50, Sixteen troyounces.
Glycerin, three fl. ounces.
Alcohol, twelve fl. ounces.
Water, one fl. ounce.

Moisten colchicum with five fl. ounces of mixed liquids, pack into porcolator, add remainder of mixture, and macerate four days then displace with diluted alcohol twenty-four fl. ounces; reserve the first fourteen fl. ounces, add to remainder one fl. ounce of glycerin, evaporate to two fl. ounces. and mix with reserved portion.

U.S. Ph.

Dose, two to ten minims.

Fluid extract of colchicum seed is prepared in same manner from colchicum seed in powder, No. 60.

#### Mixture of Colchicum and Magnesia.

R. Magnesia, one drachm. Sugar, Gum Arabic, each, sufficient. Distilled water, four fl. ounces.
Wine of colchicum
root, forty drops.

Mix. A tablespoonful every two hours, till it operates. In gout and rheumatism.

Ellis.

R. Wine of colchicum root, half fl. drachm. Carbonate of magnesium, one drachm.

Cinnamon water, Distilled water,

each, three fl. ounces.

Mix. A tablespoonful three times a day.

As a diuretic. Ellis.

#### Mixture of Colchicum and Sulphate of Magnesium. (Scudamore's Mixture.)

R. Sulphate of magnesium, one to two ounces.

Mint water, ten fl. ounces. Vinegar of colchicum, Syrup of saffron, each, one fl. ounce.

Magnesia, eight scruples.

Mix. Dose, one to three tablespoonfuls, every two hours, till four to six evacuations are procured in the twenty-four hours. In gout.

Scudamore.

## Compound Wine of Colchicum.

R. Tincture of colchicum seed,
one scruple to half a fl. drachm.
Wine of colchicum
seed, half a fl. ounce.
Mix. Fifteen to forty drops, three times a
day.

Weber.

# Wine of Colchicum and Opium.

R. Wine of colchicum seed, three drachms.

Sydenham's laudanum, half a drachm.

Mix. Dose, twenty to thirty drops every

# Tincture of Colchicum Mixture.

three or four hours.

Eisenmann.

Magnesia.

de drachm.

R. Tincture of colchicum seed,
guaiacum, each,
three fl. drachms.

Mix. Thirty to forty drops, three times a
day, in chronic rheumatism.

Radius.

# Tincture of Colchicum and Digitalis.

R. Tincture of colchicum seed, digitalis, each,

two fl. drachms.

Nitrous ether, one scruple.

Mix. Twenty drops, morning and evening, on sugar, in hydrothorax. *Hildebrand*.

#### Colchicum Mixture.

R. Wine of colchicum seeds,

thirty drops.

Denarcotized lauda-

num, twenty-five drops.
Sugar, thirty grains.
Water, one fl. ounce.

Mix. Found useful in acute rheumatism.

To be taken at night.

Dewees.

R. Wine of colchicum seed,

forty drops.

Acetated tincture of
opium, twenty drops.
Sugar, thirty grains.
Water, one fl. ounce.

Mix. In gout, after inflammation is allayed. To be taken at bedtime.

Dewees.

R. Iodide of potassium,
Carbonate of ammonium,
each, one scruple.
Wine of colchicum seed, one
fl. drachm.

Tincture of squill,

"hyoscyamus,
each, two fl. drachms.
Camphor water, sufficient for
three fl. ounces.

Mix. A tablespoonful, three times a day, in gouty bronchitis. Greenhow.

#### Preserved Juice of Colchicum Flowers.

R. Expressed juice of colchicum
flowers, two parts.
Brandy, one part.
Mix, and let rest for a few days; decant,
and keep for use in well-stopped bottles.

Said to be identical in every respect to the Eau medicinale de Husson.

# Mixture of Colchicum and Elaterium.

R. Elaterium, one grain. Spirit of nitrous ether, two fl. ozs. wounds, ulcers, etc.

Tincture of squill,
Oxymel of colchicum,
each, half a fl. ounce.
Syrup, one fl. ounce.
Mix. A teaspoonful, three or four times a
day, in hydrothorax.

Ferriar.

# Vinegar of Colchicum Mixture.

R. Vinegar of colchicum,
Syrup, each, half a fl. ounce.
Carbonate of magnesium,

one drachm and a half.

Peppermint water, four ounces.

Mix. In tablespoonful doses, as a sudorific in gout, etc.

Foy.

# Mixture of Colchicum and Squill.

R. Oxymel of colchicum, squill, wine of tobacco, half fl. ounce.

Mix. A teaspoonful four times a day. As a diuretic in dropsy. Requires caution.

Ferriar.

# Mixture of Colchicum and Ammonia.

R. Oxymel of colchicum,
Solution acetate of ammonium,
each, two fl. ounces.
Parsley water, six fl. ounces.
Mix. A spoonful, every two hours, as a diuretic.

Augustin.

# Liniment of Colchicum and Camphor.

R. Tincture of colchicum root,

"camphor,
each, three fl. ounces.

Mix. As an embrocation, in gout, rheumatism, and neuralgia.

Leycock.

# COLLINSONIA.

#### HORSE-BALM.

The Collinsonia Canadensis is a native plant, found in most parts of this country, in woods; it is from two to three feet in height.

Sex. Syst. Diand. monog. Nat. Syst. Lamiaceæ.

Wilson.
The whole plant has a strong, peculiar, unpleasant odor, and a warm, pungent taste: these are most developed in the root; this is knotty and hard. It is diuretic, diaphoretic, and tonic; and is popularly used in diseases of the bladder, leucorrhæa, and dropsy, and externally as a fomentation to wounds, ulcers, etc.

# Decoction of Horse-Balm.

R. Horse-balm root,

bruised, two ounces. Water, two pints.

Boil for half an hour, and strain. Dose, a wineglassful, every two hours, in dropsy.

# Tincture of Horse-Balm.

R. Bruised horse-balm root,

two ounces.

Diluted alcohol, one pint. Macerate for fourteen days, express, and filter. Dose, a teaspoonful.

#### Oil of Horse-Balm.

R. Horse-balm, at will. Water, sufficient. Distil, return product, and redistil, separate oil. Dose, five to ten drops.

# COLLODIUM.

See Gossypium.

#### Carbolic Collodion.

R. Collodion, one hundred parts. Carbolic acid, ten parts. Tannic acid, five parts. Benzoic acid, three parts. Dissolve. Maryland Coll. Ph.

#### COLOCYNTHIS.

# COLOCYNTH.

Colocynth is the dried pulp of the fruit of Citrullus colocynthis, a cucurbitaceous vine found in many parts of Asia and Africa. The fruit is a round pepo, of the size and color of an orange, with a thin, but hard rind, and containing numerous seeds, enveloped in a white, spongy pulp.

Sex. Syst. Monœc. monadelph. Nat. Syst.

Cucurbitaceæ.

Royle, Mat. Med. 396. Griffith, Med. Bot.

It occurs in the shops in white, round, light balls, composed of a spongy, dried pulp, inclosing numerous seeds. This spongy substance has a faint odor, but an intensely bitter and nauseous taste. It is a powerful drastic and hydragogue purgative, and is seldom given alone. Dose, five to ten grains.

# Prepared Colocynth.

R. Colocynth, deprived of seeds, and cut fine, five parts. Powdered gum Arabic, one part.

Beat with sufficient distilled water into a paste, dry and reduce to a fine powder. Dose, five grains.

# Powder of Colocynth.

R. Colocynth, one to three grains. Gum Arabic,) Liquorice, each, five grains. Sugar,

Mix. As a hydragogue purgative.

Augustin.

# Extract of Colocynth.

R. Colocynth pulp in coarse

powder, forty-eight troyounces. Diluted alcohol, sufficient.

Macerate with eight pints of the alcohol for four days, express strongly, and strain; break up residue, pack in percolator, and displace to obtain altogether sixteen pints, distil off ten pints, evaporate residue to dryness, and powder. Yield about seven troyounces. U. S. Ph.

Paris Codex and Ph. Germ. prepare this extract by maceration and digestion.

Dose, half to one grain.

Cardamom,

# Compound Extract of Colocynth.

R. Extract of colocynth,

three troyounces and a half. Purified aloes, twelve troyounces.

Resin of scammony,

three troyounces. one troyounce

and a half. Soap, three troyounces.

All the ingredients in fine powder. Mix thoroughly.

By fusing the ingredients together with a little alcohol, drying, and powdering afterwards, as proposed by D. Squibb, the preparation is uniform in appearance.

R. Colocynth sliced, six ounces.

Extract of Socotrine

aloes, twelve ounces. Resin of scammony, four ounces. Powdered cardamom, one ounce. Hard soap, three ounces. Alcohol, sp. gr. 0.920, one gallon.

Macerate the colocynth in the alcohol for four days, express, and distil spirit; then add the aloes, scammony, and soap; evaporate to proper consistence, and add the

R. Extract of colocynth, three parts. Powdered aloes, ten parts.

Phæbus.

Resin of scammony, eight parts. Extract of rhubard, five parts. Mix, adding some alcohol, dry with gentle heat, and powder. Ph. Germ. A valuable and safe cathartic. In small doses, laxative. Dose, five to twenty grains.

# Compound Cathartic Pills. (Antibilious Pills.)

R. Compound extract of colocynth, thirty-two grains. Extract of jalap, in powder, Calomel, each, twenty-four grains. Gamboge, in powder, six grains. Mix, and with water form mass, to be divided into twenty-four pills. U. S. Ph A most excellent cathartic, when it is wished to act on biliary organs. Dose, one

# Compound Pills of Colocynth.

to three or four pills. Each pill contains

one grain of calomel.

R. Colocynth pulp, each, two Barbadoes aloes, drachms and Scammony, a half. Honey, seven drachms and a half. Oil of cloves, two drops. Mix, and make two hundred pills.

Paris Codex.

R. Barbadoes aloes, Scammony, each, two ounces (avoir.). Colocynth pulp, one ounce " Sulphate of potassium, quarter ounce (avoir.). Oil of cloves, two fl. drachms. Beat well together, and with water form a Brit. Ph. Dose, five to ten grains.

R. Compound extract of colocynth, one scruple. Resin of jalap, six grains. Compound powder of scammony, Calomel, each, ten grains. Tartar emetic, one grain. Castile soap, five grains. Oil of cinnamon, four drops. Beat well together, and form fifteen pills. Dose, one to three, at bedtime. Meigs.

R. Extract of colocynth, two drachms. Resin of jalap, one drachm and a half. fifteen to twenty drops. Soap.

Guaiacum, three drachms. Tartar emetic, eight grains. Oil of juniper,

" rosemary, each, four drops. Syrup of buckthorn, sufficient. Mix well, and divide into four grain pills. Dose, one to three. Barclay.

R. Compound extract of colocynth, forty grains. Compound rhubarb pill, twenty grains. Soap, six grains. Oil of cloves, four drops. Mix, and form sixteen pills. Dose, one at bedtime. James Johnson.

# Pills of Colocynth and Henbane.

R. Compound pill of colocynth, two parts. Extract of hyoscyamus, one part. Beat into a uniform mass. Brit. Ph. Dose, five to ten grains.

# Colocynth Clyster.

R. Extract of colocynth, one scruple. Common salt, three drachms. Syrup of dogtoothone ounce and a half. grass, Infusion of chamomile, ounces.

Colocynth Mixture.

In cerebral affections.

R. Colocynth, one drachm. Boiling water, six ounces. Boil for ten minutes, strain, and add, when

Hoffmann's anodyne, one drachm. Syrup of orange-peel, one ounce. Mix. A spoonful, three times a day, in ascites, or hydrothorax. Augustin.

## Tincture of Colocynth.

R. Colocynth pulp, one part. Alcohol, ten parts. Macerate for eight days, express, and filter. Dose, five to fifteen grains. Ph. Germ. The tincture of Paris Codex is twice this strength, and is made with alcohol, sp. gr. 0.914.

eight parts. R. Colocynth, Star anise, one part. ninety-six parts. Alcohol, one drachm. Macerate for three days, and filter. Dose, Van Mons.

Tincture of Colocynth Mixture.

R. Tincture of colocynth, two drachms.

Solution of antimoniated soap (Cod. Hamb.), six drachms.

Mix. Dose, twenty to thirty drops a day, in lepra and obstinate cutaneous affections.

Heim.

# COMPTONIA.

SWEET FERN.

A shrubby, indigenous plant, found in the Northern and Middle States.

Sex. Syst. Monœc. triand. Nat. Syst. Myri-

Aiton, Hort. Kev. iii. 334. Griffith, Med. Bot. 584.

It is aromatic, especially when bruised. It is a mild astringent, and is used in bowel complaints, in the form of decoction.

#### CONIUM.

# HEMLOCK.

This is an umbelliferous, poisonous plant, the *Conium maculatum*, a native of Europe, but naturalized in many parts of this country, growing in waste places.

try, growing in waste places.

Sex. Syst. Pentand. digyn. Nat. Syst.

Apiaceæ.

Linn. Sp. Pl. 349. Griffith, Med. Bot. 339. Both the fruit and the leaves are used. The latter have a strong, unpleasant, narcotic odor, and a somewhat bitterish taste; the nearly ripe fruit possesses similar qualities, and is more reliable. They are both narcotic, but neither stimulant nor sedative, and are given in a variety of complaints, to alleviate, especially in malignant tumors, in which they are thought to exert a curative influence. The dose, in powder, is from three to eight grains of the leaves, and of the fruit rather less, twice a day, gradually increasing. The active principle, conia, is seldom used.

#### Powder of Hemlock.

R. Powdered hemlock, five grains.

"liquorice, six grains.

Make a powder, to be taken three times a day. In scirrhous affections, scrofula, old ulcers, etc.

#### Extract of Hemlock.

R. Fresh hemlock leaves, twelve troyounces.

Bruise in a stone mortar, sprinkling on them a little water; express the juice, heat to boiling point, strain, and evaporate to proper consistence, either in a vacuum or

in shallow vessels by means of a current of air.

U. S. Ph.

Paris Codex operates the same, but strains the cold concentrated liquid previous to final inspissation. Brit. Ph., before removing albumen at 200°, separates chlorophyll at 130°, and adds it again to extract. Ph. Germ. removes chlorophyll and albumen by coagulation, and from the concentrated juice, mucilage by alcohol.

Dose, two grains, gradually increased un-

til it affects the system.

#### Alcoholic Extract of Hemlock.

R. Hemlock leaves, in powder, No. 60, twelve troyounces.

Alcohol, one pint.

Moisten powder with one-third of the alcohol, pack in percolator, and add remainder of alcohol; when this has been absorbed, add diluted alcohol, until powder is exhausted. Evaporate the first pint of tincture spontaneously to three fl. ounces; evaporate remainder by water-bath below  $160^{\circ}$  to syrupy consistence, mix with other portion, and evaporate below  $120^{\circ}$  to proper consistence.

U. S. Ph.

Paris Codex displaces one part of conium with six parts of alcohol, sp. gr. 0.914, afterwards with water until turbidity ap-

pears, distils, and evaporates.

Dose, one to two grains, gradually increasing.

#### Pills of Hemlock and Ipecacuanha.

R. Extract of hemlock,

Dover's powder, each, ten grains.

Mix, and form five pills. Two at bedtime, in pulmonary irritation, with rheumatic and other local pains.

Ellis.

R. Extract of hemlock, five drachms. Powdered ipecacuanha,

Molasses, sufficient.

Mix. Dose, five to ten grains. Brit. Ph.

## Pills of Hemlock and Calomel.

R. Extract of hemlock, two scruples.

Calomel, fifteen grains.

Mix, and form fifteen pills. One, three times a day, in syphiloid affections. Ellis.

## Pills of Hemlock and Dandelion.

R. Extract of hemlock,
dandelion,
Gum Arabic,
Soap,
Honey,
sufficient.

Mix, and form three grain pills. In glandular and other tumors. Brera.

#### Infusion of Hemlock.

R. Hemlock leaves, half an ounce.
Boiling water, one pint.
Infuse, and strain. As a wash to cancerous and malignant ulcers.

Ellis.

#### Inhalation of Hemlock.

R. Extract of hemlock, sixty grains.
Solution of potassa, one fl. drachm.
Distilled water, ten fl. drachms.
Mix. Put twenty minims of the mixture on a sponge in a suitable apparatus, so that the vapor of hot water passing over it may be inhaled.

Brit. Ph.

## Hemlock Collutory.

R. Hemlock leaves, two drachms.
Poppy seed, one drachm.
Henbane seed, half a drachm.
Milk, half a pint.
Boil slightly, and strain. In rheumatic toothache.

Phæbus.

#### Juice of Hemlock.

R. Fresh hemlock leaves, at will.

Bruise, express, and add to every three measures of juice one measure of alcohol, and after a week, filter.

Brit. Ph.

The U.S. Ph. adds one measure of alcohol to every five measures of the juice. Dose, half to one teaspoonful and more.

#### Tincture of Hemlock.

R. Hemlock leaves, four troyounces.
Diluted alcohol, sufficient.
Obtain by displacement two pints of tincture.
U. S. Ph.

Paris Codex obtains, with alcohol sp. gr. 0.914, twenty troyounces of tincture.

R. Hemlock fruit, two and a half ounces (avoir.).

Alcohol, sp. gr. 0.920, sufficient. Obtain one pint (imperial) of tincture.

Dose, thirty drops to a fl. drachm and more.

#### Ethereal Tincture of Hemlock.'

R. Hemlock leaves, one part.
Sulphuric ether, four parts.
Macerate for two days, and filter.

Soubeiran.

#### Fluid Extract of Conium Fruit.

R. Conium fruit, in powder,
No. 60, sixteen troyounces.
Glycerin, three fl. ounces.
Alcohol. eight fl. ounces.

Alcohol, eight fl. ounces. Water, five fl. ounces.

Moisten powder with four fl. ounces of mixed liquids, pack into percolator, and add remainder. Macerate for four days, then displace with diluted alcohol until twenty-four fl. ounces are obtained, reserving the first fourteen fl. ounces; add to remainder

Muriatic acid, three drachms.
Glycerin, one fl. ounce.
Evaporate to two fl. ounces, mix with reserved portion, and strain.

U. S. Ph.

# Ointment of Conium.

R. Extract of conium, one part.

Lard, nine parts.

Soften extract with a little water, and mix thoroughly. Ph. Germ.

As a dressing to painful ulcers.

#### Compound Balsamic Conium Ointment.

R. Acetate of lead, in very
fine powder, two parts.
Extract of conium, six parts.
Simple cerate, forty-eight parts.
Balsam of Peru, six parts.
Sydenham's laudanum, one part.
Mix thoroughly. Hellmund's narcoticobalsamic ointment. Ph. Germ.

#### Oleo-infusion of Hemlock.

R. Fresh hemlock, one part.
Olive oil, two parts.
Simmer together until moisture has evaporated, express, and strain. As a friction to the abdomen in ileus, and to the anus in hemorrhoids.

Paris Codex.

#### Conium Plaster.

R. Elemi, purified, two parts.
White wax, one part.

Melt together, and add

Alcoholic extract of

conium, nine parts.

As an application to painful ulcers and malignant tumors.

Paris Codex.

R. Yellow wax, four parts.
Common turpentine,
Olive oil, each, one part.

Melt together, and when nearly cold, add
Powdered conium, two parts.
Stir well till cold.

Ph. Germ.

# Compound Conium Plaster.

R. White turpentine, nineteen scruples.
Yellow wax, thirteen scruples.
Burgundy pitch, nine scruples.
Oleo-infusion of hemlock,

fifty-two grains.

Melt together, and add to melted mixture Fresh hemlock, forty scruples. After evaporation of moisture, express, melt again, and add

Ammoniac, purified, ten scruples.

Stir well till cold. Used as above.

Paris Codex.

R. Powdered ammoniac,

Vinegar of squill, each, two parts. Digest and evaporate with a gentle heat to a soft mass, and mix well with

Conium plaster, nine parts.

Ph. Germ.

R. Soap plaster, one ounce. Extract of hemlock, half an ounce. Powdered belladonna,

two drachms.

Mix.

Hamburg Codex.

#### Cataplasm of Conium.

R. Powdered conium, one ounce.
Linseed meal, three ounces.
Boiling water, ten fl. ounces.
Mix with constant stirring.

Brit. Ph.

R. Powdered hemlock, two ounces.
Carrot juice, one pound.
Tincture of opium
and saffron, three drachms.
Linseed meal, sufficient.
Make a cataplasm. In cancerous ulcers.

Pideret.

#### Mixture of Hemlock and Paregoric.

R. Extract of hemlock, one drachm.
Paregoric elixir,
Syrup of tolu, each, half fl. ounce.
Rose water, four fl. ounces.
Mix. From half to a teaspoonful once in four hours, to a child a year old, watching the effect, in pertussis.

Pearson.

# Suppository of Hemlock.

R. Extract of hemlock,
White wax, each,
Butter of cacao, forty grains.
Mix. In painful hemorrhoids and spasms of the rectum.

Béral.

#### Embrocation of Conia.

B. Conia, two parts.
Distilled water, two hundred parts.
Alcohol, thirteen parts.
Mix. Used in scrofulous ophthalmia, and intolerance of light, by frictions around the orbits several times a day. Fronmüller.

R. Conia, one grain. Expressed oil of almonds, two drachms.

Mix. Used like preceding. Mauthner.

# Hypodermical Injection of Conia.

R. Conia, half a grain.
Alcohol, half a drachm.
Dissolve and add it gradually to

Distilled water, one drachm and a half.

Used in doses of two to five minims, containing  $1\frac{1}{2}$  to  $4\frac{1}{8}$  conia, in asthma, tetanus, etc. Eulenburg.

# CONTRAYERVA.

#### CONTRAYERVA.

Contrayerva is the root of *Dorstenia contrayerva*, and other species, all natives of South America, Mexico, and the West Indies. They are perennial, dwarf, herbaceous plants, usually growing in high, rocky places.

Sex. Syst. Tetrand, monog. Nat. Syst. Moraceæ.

Linn. Sp. Pl. 124. Griffith, Med. Bot. 577. The root is oblong, hard, rough, and solid, of a reddish-brown color, with numerous, long, yellowish fibres. It has an aromatic odor, and a warm, pungent, somewhat bitterish taste. It is a stimulant, tonic, and diaphoretic, and has been found useful in low states of the system. The dose of the powder is about half a drachm.

#### Compound Powder of Contrayerva.

R. Powdered contrayerva, six drachms.
ounces.
Il once in watching Wix. Dose, a teaspoonful two or three times a day, as a tonic.

R. Powdered contrayerva, six drachms.

Oracle drachms.

One ounce.

Spielmann.

# Extract of Contrayerva.

R. Contrayerva, bruised, one part.
Boiling water, six parts.
Infuse for three days, boil, strain, express, and evaporate to proper consistence. Dose, one to two scruples.

Palat. Codex.

# Decoction of Contrayerva.

R. Contrayerva, bruised, one drachm. Water, one pint. Boil for ten minutes, and strain. Taddei.

#### Gargle of Contrayerva.

R. Contrayerva, half an ounce.
Figs, one ounce.
Water, eighteen fl. ounces.
Mix, and boil down to two-thirds.

Saunders.

# Tincture of Contrayerva.

R. Contrayerva, one part. Alcohol, sp. gr. 0.864, sufficient. Obtain by displacement five parts of tincture. Dose, thirty to forty drops.

Dorvault.

# Compound Tincture of Contrayerva.

R. Contrayerva,
Virginia snakeroot,
each, one ounce and a half.
Juniper berries, one ounce.
Spirit of ammonia, six fl. ounces.
Alcohol, one pint.
Macerate for four days, express, and filter.
Dose, forty to eighty drops, as a stimulating diaphoretic.

Lip. Dis.

#### Contrayerva Mixture.

R. Powdered contrayerva, eight grains.

Cinnamon water, one fl. ounce and a half.

Nutmeg water, two fl. drachms.

Syrup of cinnamon, three fl. drachms.

Mix. A spoonful as a stomachic.

Swediaur.

# CONVOLVULUS PANDU-RATUS.

# WILD POTATO.

This is a native plant, with a large perennial root, found in sandy soils in most parts of the United States.

Sex. Syst. Pentand. monog. Nat. Syst. Convolvulaceæ.

Linn. Sp. Pl. 219. Griffith, Med. Bot.

(Ipomæa) 476.

The root, as found in the shops, is in circular pieces, of a yellowish-brown color, scarcely any smell, and a bitterish, somewhat acrid taste. It is feebly cathartic, but is said to be a good diuretic in calculous complaints. Dose, as purgative, forty grains. As a diuretic, it is given in decoction.

# COPAIBA.

## COPAIBA .- COPAIVA.

This is the eleoresin of Copaifera multijuga and other species, all large trees, natives of South America, and principally of Brazil.

Sex. Syst. Decand. monog. Nat. Syst.

Fabaceæ.

Linn. Sp. Pl. 557. Griffith, Med. Bot. 264. Copaiba is clear and transparent, of a pale yellowish color, a peculiar and somewhat unpleasant odor, and a bitterish, pungent, nauseous taste. It is rather less consistent than olive oil when fresh, but by age becomes thicker, and may even assume the solidity of a resin. It is stimulant, diuretic, and cathartic, and is principally used in morbid discharges from mucous surfaces, especially those of the genito-urinary organs. The dose is from twenty drops to a fl. drachm, three times a day.

#### Boluses of Copaiba.

R. Copaiba, two drachms.
Gum Arabic, one ounce.
Powdered liquorice, sufficient.
Mix, and form mass. Dose, a scruple to two scruples.

Radius.

R. Copaiba, one ounce.
Calcined magnesia, one drachm.
Opium, four grains.
Powdered cubebs, three drachms.
Syrup of poppies, sufficient.
Mix, and divide into boluses of half a drachm. Two to be taken at night, in genorrhea.

Henschel.

#### Pills of Copaiba.

R. Copaiba, two troyounces.

Magnesia (freshly prepared), one drachm.

Mix, and set aside till it concretes into a pilular mass; this to be divided into two hundred pills. Should the mixture not concrete in eight or ten hours, a deficiency of water in the copaiba may be inferred; and this difficulty may be obviated in subsequent operations by shaking the copaiba with one-twentieth of its weight of water,

canting from the uncombined water.

U. S. Ph.

Dose, two to six, two or three times a day.

R. Copaiba, one ounce. Dragon's blood, half an ounce. Calomel, one drachm. Conserve of roses, four ounces. Mix, and make pills of six grains. Dose, from three to five a day. Foy.

Pills of Copaiba and Cubebs.

R. White wax, two drachms. Melt, by a gentle heat, and add

Copaiba, half an ounce. Powdered cubebs, one ounce. Incorporate well, and divide into two hun-Berens. dred and forty pills.

# Pills of Copaiba, Cubebs, and Turpentine.

R. Oil of copaiba,

cubebs,

turpentine,

each. one fl. drachm. Magnesia, two drachms.

Mix, and form sixty pills.

This is said to be an excellent preparation. It was communicated by Mr. Procter, who is unacquainted with the author of it.

## Copaiba Confection.

R. Turpentine, one ounce. Copaiba, half an ounce.

Mix well, in a warmed mortar, and add

Mucilage of gum Arabic, one ounce.

Conserve of roses, four ounces. Dose, two to three drachms, three times a day, in obstinate gonorrhœa. Swediaur.

R. Copaiba,

Powdered cubebs, each, four drachms and a half. Yolk of egg, Conserve of roses, half an ounce. Mix. A teaspoonful three or four times a day. Voght.

R. Copaiba, Powdered cubebs, each, two ounces.

alum, Opium,

allowing to stand for some days, and de- Incorporate well. One drachm to be taken in the pulp of a prune, night and morning, and rapidly increased to two drachms. Is very effectual in gonorrhœa.

# Emulsion of Copaiba.

R. Copaiba,

Mucilage gum Arabic,

two ounces. Water, twelve fl. ounces.

Rub the copaiba gradually with the mucilage in a mortar, add the water by degrees, constantly rubbing.

# Injection of Copaiba.

R. Copaiba, twenty grains. Carbonate of sodium, forty grains. Wine of opium, fifteen drops. Water, four ounces.

Mix well, adding the water gradually. As an injection in gonorrhœa.

R. Copaiba, two drachms.

Mucilage of gum

Arabic, half an ounce. six fl. ounces. Lime water,

Mix well. As an injection in ulcers of the rectum, vagina, or urethra. Abernethy.

half an ounce. R. Copaiba, Yolk of egg, sufficient. Lime water, six ounces. Honey of roses, three ounces.

Mix. As an injection in fistulous ulcers. Plenck.

# Copaiba Mixture.

R. Copaiba,

Sweet spirit of nitre,

half a fl. ounce. each.

Powdered gum Arabic,

sugar, each, one drachm.

Compound spirit of

two fl. drachms. lavender. Tincture of opium, one fl. drachm. Distilled water, four fl. ounces.

Mix. A tablespoonful three times a day in gonorrhœa. Chapman.

R. Copaiba, half an ounce.

Mint water, each, half a fl. ounce. Alcohol,

Syrup, Sweet spirit of

half a fl. drachm. nitre,

Mix. To be taken in four doses in a day, one ounce. followed by demulcent drinks. In chronic five grains. | gonorrhœa. Ellis.

ounces.

R. Copaiba, half an ounce.

Mucilage of gum

Arabic, two ounces.

Clarified honey, six drachms.

Solution of potassa, two drachms.

Essence of lemon, half a drachm.

Rose water, five fl. ounces.

Mix. Two to three spoonfuls, three times a day. Stephenson.

R. Copaiba, one drachm and a half.
Powdered kino, one scruple.
Mucilage of gum
Arabic, two drachms.
Syrup of rhatany, one ounce.
Decoction of chamomile, four

Mix. A spoonful every hour or two. Foy.

R. Copaiba, half a drachm.
Tincture of allspice,
Syrup of mallows,
each, two drachms.
Mucilage of gum
Arabic, sufficient.
Water, one ounce.

Mix. To be taken morning and evening. Saunders.

R. Copaiba,
Syrup of lemon,
Mint water,
Orange-flower water,
Diluted sulphuric acid,
Tragacanth,
Mix. A spoonful, morning and evening.
Delpech.

R. Copaiba,
Balsam of Tolu,
Powdered gum Arabic,
an ounce.
Elixir of vitriol, twenty drops.
Distilled water, six fl. ounces.
Mix. A tablespoonful, in chronic hoopingcough.

Ellis.

R. Copaiba, one drachm. Carbonate of potassium, thirty grains.

Extract of Peruvian
bark, twenty grains.
Gum Arabic, twelve grains.
Aloes, two grains.
Syrup of capillaire, two ounces.
Cinnamon water,

Mint water, each, three fl. ounces.

Mix. Dose, a wineglassful several times a
day, as an anthelmintic. Pierquin.

Copahine-Mege.

R. Oxidized copaiba, eighty parts.
Powdered cubebs,
Carbonate of sodium,
each, eight parts.

Calcined magnesia, five parts.

Mix, and let the mixture stand till solidified, and then make into small masses, which are to be covered with sugar. Dose, four or five, three times a day. Oxidized copaiba is prepared by treating copaiba with nitric acid, and then washing with water.

Joseau.

Mixture of Copaiba Resin.

R. Resin of copaiba, three drachms.

Alcohol, five drachms.

Spirit of chloroform, one drachm.

Mucilage of acacia, two fl. ounces.

Water, sufficient to make twelve fl. ounces.

Mix. Recommended by Wilks as a diuretic preferable to copaiba emulsions.

Gerrard.

Tincture of Copaiba.

R. Copaiba, one part.
Alcohol, five parts.
Digest for several days, and filter. Dose, thirty to sixty drops.

Guibourt.

Alkaline Tincture of Copaiba.

R. Copaiba, one ounce.
Carbonate of potassium, one drachm.
Alcohol, four fl. ounces.
Digest, and filter. Dose, twenty-five to Brunswick Ph.

Compound Tincture of Copalba.

R. Copaiba, one ounce.
Guaiacum, two drachms.
Oil of sassafras, half a drachm.
Alcohol, four and a half fl. ounces.
Digest with a gentle heat; filter. Foy.
Dose, a drachm, in some infusion.

Oil of Copaiba.

R. Copaiba, twelve troyounces.

Water, sixteen pints.

Distil twelve pints, separate oil, return water into still, and again distil; separate the oil.

U. S. Ph.

ral times a As a carminative and stimulant. Dose, Pierquin. ten to thirty drops, rubbed up with muci-

lage and water. The residue in the still separated from the water is the resin of copaiba.

## Copaiba Clyster.

R. Copaiba, one to four drachms.

Extract of opium, one grain.

Yolk of egg, one.

Decoction of

mallows, four to six fl. ounces.

Make an emulsion, as a clyster in gonorrhœa. Guibourt.

## Copaiba Paste.

R. Sweet almonds,
Mallow paste,
Catechu,
Copaiba,
Six drachms.
one drachm.
half a drachm.
three drachms.

Rub together into a paste. Dose, a spoonful. Phæbus.

## COPTIS.

## GOLDTHREAD.

Coptis trifolia is a small evergreen plant, found in the more northern parts of both continents, in wet and boggy situations.

Sex. Syst. Polyand. polyg. Nat. Syst. Ra-

nunculaceæ. Salisbury, Linn. Trans. viii. 305. Griffith, Med. Bot. 87.

The roots are long, slender, orange-yellow, and the leaves are ternate with obovate sharply-toothed leaflets; the plant has no smell, but a strong and purely bitter taste. It is a simple tonic bitter, with no astringency, and contains two alkaloids, berberina and coptina. It is used as a stomachic, and as a local application to aphthous sore mouth. Dose, in powder, ten to thirty grains.

#### Infusion of Goldthread.

R. Goldthread, one ounce. Boiling water, one pint.

Infuse for an hour, and strain. Dose, half

Dunglison.

fl. ounce to two fl. ounces.

## Tincture of Goldthread.

R. Goldthread, one ounce.
Diluted alcohol, one pint.

Macerate for a week, and filter. Dose, one half if the drachm to three fl. drachms. Wood. tive.

## CORIANDRUM.

#### CORIANDER.

This is the fruit of Coriandrum sativum, an annual plant, a native of the south of Europe, but naturalized in many other parts of that quarter of the world, and also extensively cultivated.

Sex. Syst. Pentand. digyn. Nat. Syst. Api-

aceæ.

Linn. Sp. Pl. 367. Griffith, Med. Bot.

341.

The fruit is somewhat globular, of a grayish or brownish-yellow color, and sometimes separated into two portions, or mericarps. It has a pleasant aromatic smell and taste. It is principally used as an adjuvant to other articles, to disguise their taste, or to modify their griping qualities. Dose, from a scruple to a drachm.

## Compound Powder of Coriander.

R. Powdered coriander, one drachm and a half.

Ivory filings,
Burnt hartshorn,
Prepared chalk,
Powdered cinnamon,
Sugar of roses,

each, one
scruple.

scruple.
sufficient.

Mix well. A teaspoonful, after eating, as a stomachic. Pierquin.

R. Powdered coriander, rhubarb, columbo.

Mix. To be taken at bedtime, in dyspepsia with flatulence and costiveness. Stomachic. Ainslie.

#### Tincture of Coriander.

R. Coriander, one part.
Diluted alcohol, eight parts.

Macerate for a week, and filter. Béral.

## Compound Water of Coriander.

R. Coriander, eight ounces.
Fresh lemon-peel, one ounce.
Nutmeg,
Storax,
Benzoin,
Vanilla, three drachms.
Alcohol, forty-eight fl. ounces.

Macerate for two days, and distil. Dose, half fl. ounce, as a stomachic and carminative.

Spielmann.

### CORNU.

## HARTSHORN.

This is officinally the horn of the Cervus elephas, or European stag; but that of our native species has the same properties. It is found in the shops, in the form of shavings, which are of a yellowish-white color, friable, and without smell or taste. They consist principally of gelatine and phosphate of calcium, and are employed to make a jelly, which is not superior to any other animal jelly.

## Hartshorn Jelly.

R. Hartshorn shavings, four ounces. Water, eight ounces. Muriatic acid. one drachm.

Beat together for ten minutes, wash in two or three waters, boil with fresh water for half an hour, express, strain, and add

four ounces. Boil down sufficiently for the mixture to jelly, on cooling. Ferrez.

## Compound Jelly of Hartshorn.

R. Hartshorn jelly, eight ounces. Paste of sweet almonds, one ounce. Sugar, half an ounce. Orange-flower water, one drachm. Essence of citron, twelve drops. Mix, and heat; then permit to cool.

Guibourt.

## Burnt Hartshorn.

R. Burn pieces of hartshorn in an open vessel till quite white, powder, and prepare like prepared chalk.

Lond. Ph.

Dose, half a drachm to two drachms.

## Dentifrice of Burnt Hartshorn.

R. Powdered burnt harts-

horn, one ounce. Orris root, two drachms. Dragon's blood, one drachm. Oil of roses, two drops. Mix. Steph. & Church.

> CORNUS Dogwood.

# CORNUS CIRCINATA.

ROUND-LEAVED DOGWOOD.

A large shrub, native of the United States, with a bitter, astringent, slightly aromatic bark.

## CORNUS FLORIDA.

### Dogwood.

A small tree, found in most parts of the United States, flowering early in the spring. The bark, especially of the root, has a bitter, astringent, somewhat aromatic taste, and a faint odor.

## CORNUS SERICEA.

## SWAMP DOGWOOD.

A large shrub, like the others, a native of this country, with a bark of the same qualities.

Sex. Syst. Tetrand. monog. Nat. Syst.

Cornaceæ.

The barks of these shrubs and trees are tonic and astringent, and are said to have much the same properties as Peruvian bark, and may be used as a substitute for it. They are, however, much inferior. The dose of the powder is from a scruple to a drachm.

## Decoction of Dogwood.

R. Dogwood bark, bruised, one trovounce. Water, sufficient. Boil for fifteen minutes so as to obtain a pint, and strain. U. S. Ph. A wineglassful every hour, in the apy-

rexia of intermittents.

## Fluid Extract of Dogwood.

R. Dogwood bark, in powder, No. 60, sixteen troyounces.

Glycerin, three fl. ounces. Water, five fl. ounces. Alcohol, eight fl. ounces.

Moisten the powder with five fl. ounces of the mixed liquids, pack in a glass percolator, add the remaining mixture, and macerate for four days; then with diluted alcohol displace twenty-four fl. ounces, reserving the first fourteen, add to the remainder one fl. ounce of glycerin, evaporate to two troyounces, and mix with reserved portion. Dose, a teaspoonful. U. S. Ph.

## Pills of Round-leaved Dogwood.

R. Extract of round-leaved one drachm and dogwood, a half. Powdered ginger, ten grains. Dried carbonate of sodium, ten grs. Mix, and form twenty-four pills.

## Wine of Round-leaved Dogwood.

R. Extract of round-leaved

dogwood, three drachms.
White wine, one pint and a half.
Digest for fourteen days, and filter.

Reece.

## COTULA.

## MAYWEED.

A small annual syngenesious plant, a native of Europe, and extensively naturalized in the United States. It is the Maruta cotula of botanists. (Anthemis cotula. Linn.)

Sex. Syst. Syng. frust. Nat. Syst. Astera-

De Candolle, Prod. vi. 13. Griffith, Med. Bot. 399.

The whole herb has a strong, unpleasant smell, and a bitter, warm taste. It has much the same properties as chamomile as an internal remedy, and may be used as a substitute for it; but its disagreeable odor renders it nauseous to most persons. It is also employed in amenorrhœa, and as an antispasmodic. It is usually given in infusion.

## Infusion of Mayweed.

R. Mayweed, half an ounce.
Boiling water, one pint.

Macerate for a quarter of an hour, in a covered vessel, and strain. Used in same cases, and in same manner as infusion of chamomile.

## Cataplasm of Mayweed.

R. Mayweed, fresh, at will. Bruise, or cut very fine. When applied as a cataplasm, it produces redness and vesication as rapidly as Spanish flies. Ashley.

#### CREASOTUM.

#### CREASOTE.

A peculiar substance, analogous to the volatile oils, existing in the products of the distillation of wood. It is a colorless, oleaginous fluid, of a burning, caustic taste, and of an odor resembling that of smoked meat. It is corrosive, but in a diluted state is an effectual preserver of animal substances. It is irritant, narcotic, styptic, etc., and has been employed in a variety of diseases, both internally and as a local application.

#### Creasote.

R. Tar, at will.

Distil, changing the recipients several times, till the residue has the consistence of pitch;

agitate the heavy oil that passes with a little concentrated sulphuric acid; then mix it with its own volume of water, and rectify in small retorts; dissolve the product which sinks to the bottom in a hot solution of potassa, aided by a gentle heat; when it cools, add a slight excess of sulphuric acid, separate the oil, and distil it in small quantities at a time; again rectify it two or three times. Dose, one to two drops, mixed with water.

## Creasote Mixture.

R. Creasote, six drops.
Powdered mallow,
Sugar, each, one drachm.
Mix well, and divide into three powders, to be taken during the day. In hemoptysis and phthisis.

Radius.

#### Creasote Pills.

R. Creasote, one drachm.
Powdered mallow root, sufficient
to make one hundred and ten pills. Said
to be beneficial in acute rheumatism. Four
or five to be taken, morning and evening.

Riech.

R. Creasote, one drachm. Extract of liquorice, one drachm and a half. Water.

Beat into mass, and make pills of two grains. Two, morning and evening, in phthisis and laryngitis. Radius.

R. Creasote, ten drops.
Powdered liquorice,
Mucilage of gum
Arabic, each, sufficient.

Mix, and form twenty pills. Dose, one, three times a day. In bronchitis, neuralgia, etc.

Ellis.

R. Creasote, one drachm.
Extract of liquorice,
Galbanum, each, half a drachm.
Powdered mallows, two drachms.
Form mass, and divide into one hundred and twenty pills. Six, four times a day, in

#### Alcoholic Solution of Creasote.

R. Creasote, one part.
Alcohol, sixteen parts.

Mix. A drop or two placed in the cavity of an aching tooth, will afford relief.

Marinus.

R. Creasote, one fl. drachm.
Alcohol, two fl. ounces.

Mix. Used with water as a mouth-wash, to correct fetor of the mouth, and to check caries of the teeth.

Buchner.

Creasote,
R. Creasote,
Glacial ac acid, ea Spirit of it

R. Creasote, one fl. drachm.
Alcohol, one fl. ounce and a half.
Tincture of cochineal, six fl.
drachms.
Oil of mint, thirty-six drops.
Mix. Used as above. Righini.

#### Creasote Water.

R. Creasote, one fl. drachm.
Distilled water, one pint.
Dissolve by agitation.

U. S. Ph.

### Creasote Lotion.

R. Creasote, half a drachm. Water, five ounces. Mix. As a lotion in psora, etc. Radius.

R. Creasote,
Vinegar,
Water,
Water,
Wix. As an application to phagedenic ulcerations and chances.

Vinegar,
two fl. drachms.
two fl. ounces.

Short.

## Inhalation of Creasote.

B. Creasote, twelve minims. Boiling water, eight fl. ounces. Mix in an apparatus so arranged that air may be made to pass through the solution, and may afterwards be inhaled. Brit. Ph.

Creasote Collutory.

R. Creasote, three drops.

Compound spirit of lavender, twenty drops.

Distilled water, half fl. ounce.

Mix. Black.

R. Creasote, four drops.
Distilled water, two fl. ounces.

Mix. In irritation of the gums.

Fremanger.

R. Creasote, half a fl. drachm.
Powdered gum Arabic, one ounce
and a half.
Camphor water, two fl. ounces
and a half.

Mix. To be used every two hours in aphthous ulceration of the mouth. Magendie.

### Creasote Mixture.

R. Creasote,
Glacial acetic
acid, each, sixteen minims.
Spirit of juniper, half a fl. drachm.
Syrup, one fl. ounce.
Water, fifteen fl. ounces.
Mix the creasote with the acid, gradually add the water, and then the spirit and syrup.

Brit. Ph.
Dose, one to two fl. ounces.

R. Creasote, two to four drops.

Mucilage of gum

Arabic, one ounce.

Infusion of salep, five ounces.

Sugar, one drachm.

Mix. A spoonful every two hours in the colliquative diarrhœa of phthisis. Radius.

R. Creasote, five drops.

Mucilage of gum
Arabic, three fl. ounces.
Syrup of mallows, one fl. drachm.

Mix. A spoonful every three hours in hemoptysis.

Santoni.

R. Creasote, one drop.
Camphor water,
Compound infusion of
gentian, each, six fl. drachms.
Mix. To check vomiting. Santoni.

R. Creasote, two drops.
Lime water, two fl. ounces.

Mix. Dose, a teaspoonful with a teaspoonful of milk, to check vomiting in cholera infantum.

J. L. Smith.

#### Creasote Ointment.

R. Creasote,
Lard,
Mix thoroughly.
Creasote ointment,
As an application in scaly, cutaneous eruptions, ulcers, etc.

R. Simple cerate,
Oil of almonds, each, one ounce.
Creasote, thirty drops.
Mix. As an application in scrofulous caries.
Fremanger.

# Compound Ointment of Creasote.

and a half. R. Creasote,
ours in aphMagendie. Solution of subacetate
of lead, each, ten drops.

Extract of opium, one grain and a half. Lard, one ounce. Mix. As an application to chilblains.

Devergie.

half a drachm. R. Creasote, Purified animal charcoal, one drachm. Alcohol, one fl. drachm and a half. Spermaceti ointment, one ounce and a half.

Mix. Used as an application to burns, to be diluted, if necessary. Sutro.

### CROCUS.

#### SAFFRON.

Saffron is the stigmas of Crocus sativus, a bulbous-rooted plant, native of Greece, Asia Minor, etc., and extensively cultivated in many parts of Europe.

Sex. Syst. Triand. monog. Nat. Syst. Iri-

daceæ.

Linn. Sp. Pl. 50. Griffith, Med. Bot. 626. Saffron has a peculiar, sweetish, fragrant odor, a warm, bitter taste, and is of an orange-red color. It was at one time much used as an excitant, narcotic aromatic, and emmenagogue, but is seldom employed in this country, except as a coloring ingredient in compound preparations. Dose, from ten to thirty grains.

#### Pills of Saffron.

R. Saffron, one drachm. Myrrh, each, Sulphur, Inspissated bile, sufficient. Mix, and form one hundred and fifty pills. Dose, twelve a day, as an emmenagogue.

Phæbus.

#### Tincture of Saffron.

R. Saffron, one ounce. Proof spirit, twenty fl. ounces. Macerate, displace, express, and filter.

Brit. Ph. The tincture of Ph. Germ. is rather less than twice this strength.

Dose, one to two fl. drachms.

### Compound Tincture of Saffron.

R. Saffron, one ounce. Myrrh, two ounces. Socotrine aloes, ten ounces. Cinnamon, Mace, each, half an ounce. Nutmeg,

Orange-flower water, one pint. Alcohol, sixteen pints. Digest for two days, and distil off eight pints. Cottereau.

#### Elixir de Garus.

R. Compound tineture of saffron, eight pints. Syrup of maidenhair, ten pints. Mix, color with caramel, dissolved in

Orange-flower water, eight fl. ounces.

Used as a stomachic and carminative.

Foy.

#### Infusion of Saffron.

R. Saffron, one part. White wine, twenty-four parts. Infuse, and strain. Advised in debility of the digestive organs.

## Syrup of Saffron.

R. Saffron; one part. White wine, twenty-four parts. White sugar, thirty-six parts. Macerate the saffron in the wine for thirty-

six hours, strain, and add the sugar.

Paris Codex uses eighteen parts of Malaga wine, and twenty-three parts of sugar.

Slightly stimulant.

## Saffron Collyrium.

R. Saffron, one part. Boiling water, two hundred parts. Infuse, strain, and add

Tincture of opium, one part. Phæbus.

#### Saffron Ointment.

R. Cut saffron, one scruple. Camphor, two scruples. Oil of henbane, two drachms. six drachms. Goulard's cerate, Mix. As an application to painful hemor-Spielmann. rhoids.

#### CUBEBA.

#### CUBEBS.

Cubebs are the berries or fruit of Piper cubeba, a climbing perennial vine, native of many parts of the East Indies.

Sex. Syst. Diand. trigyn. Nat. Syst. Piperaceæ.

Linn. Sp. Pl. 90. Griffith, Med. Bot. 567. Cubebs somewhat resemble black pepper, but are of a lighter color, and are furnished with a short stalk. The shell is thin and hard, and the seed round, white, and oily. The taste is acrid, peppery, and camphoraceous; the odor aromatic and pleasant. Cubebs are stimulant, with a special action on the genito-urinary organs, and have been much used in gonorrhea, leucorrhea, etc., and have also been found useful in piles, bronchitis, etc. The dose of the powder is from ten grains to three drachms, according to circumstances.

## Powder of Cubebs.

R. Powdered cubebs, half a drachm to one drachm.

" ipecacuanha, eighth of

a grain.

Oil of peppermint, half a drop.

Mix. To be taken four times a day, in gonorrhea.

Schmidt.

## Powder of Cubebs and Ergot.

R. Powdered ergot, two scruples.

" cubebs, one ounce.
" cinnamon, half a

drachm.

" sugar, one drachm.

Mix, and divide into eight powders. One
to be given three or four times a day. In

gonorrhœa, gleet, leucorrhœa, etc.

Ryan.

## Powder of Cubebs and Hemlock.

R. Powdered cubebs.

half a drachm to a drachm.

Extract of hemlock, half a grain.

Prepared oyster shell, five grains.

Mix. To be taken four times a day in gonorrhœa.

Phæbus.

## Powder of Cubebs and Alum.

R. Powdered cubebs, two ounces.

"alum, half an ounce.

Mix, and divide into nine powders. One to be taken three times a day. Ricord.

## Cubeb Lozenges. (Spitta's Lozenges.)

R. Powdered cubebs, two drachms.

Balsam of tolu, six grains.

Mix. and add

Extract of liquorice,
Syrup of balsam
of Peru,
Gum Arabic,
one ounce.
one drachm.
sufficient.

Rub well together, and form lozenges of ten grains. One of these, permitted gradually to melt in the mouth, alleviates the obstruction in the nose, in coryza. Spitta.

R. Oleoresin of
cubeb, half a fl. ounce.
Oil of sassafras, a fl. drachm.
Powdered liquorice,

four troyounces.

" gum Arabic,

two troyounces.

" sugar,

three troyounces.

Syrup of tolu, sufficient.

Mix the powders, add the oil and oleoresin, then with the syrup form a mass, to be divided into four hundred and eighty lozenges.

U. S. Ph.

Used like the preceding.

## Electuary of Cubebs.

R. Powdered cubebs, half an ounce.
Clarified honey, sufficient.
Mix. Three or four teaspoonfuls a day, in gonorrhæa, mucous discharges from the bladder, etc.

Radius.

R. Powdered cubebs,

Copaiba, each, two ounces.
Powdered alum, one ounce.
Extract of opium, five grains.
Rub together. Dose, one drachm, night and morning, in the pulp of a prune, rapidly increasing the dose to two drachms.
In gonorrhæa.

Ewo ounces.

Two ounces.

### displaying a prune of a pru

#### Zoll's Compound Confection.

R. Powdered cubebs, one troyounce.
Powdered alum,
Copaiba, each, half a troyounce.
Gum Arabic, three drachms.
Simple syrup, half an ounce.

Mix. Used like the preceding.

Maryl. Coll. Ph.

## Injection of Cubebs.

R. Powdered cubebs, one ounce. Water, one pint.

Boil, and strain. Add

Extract of belladonna, one scruple. In gonorrhœa and leucorrhœa.

Soubeiran.

## Clyster of Cubebs.

R. Powdered cubebs,

one to four drachms. Decoction of mallows, six ounces. Mix. To be administered night and morning, in gonorrhœa. Foy.

### Oleoresin of Cubebs.

R. Cubebs, in powder,

twelve troyounces. No. 60, sufficient. Ether,

Press the powder into a displacer, arranged with cover and receptacle suitable for volatile liquids, add the ether gradually, and obtain by slow displacement twenty-four fl. ounces. Distil, with care, the greater part of the ether, and expose the residue in a capsule until all the ether has evaporated. Decant the oleoresin from the waxy and crystalline matter which deposits on keeping the product in a bottle. U. S. Ph.

Dose, ten to twenty minims.

## Fluid Extract of Cubebs.

R. Cubebs in powder,

No. 50, sixteen troyounces. Stronger alcohol, sufficient.

Moisten the powder with six fl. ounces of the alcohol, pack firmly in a percolator, add ten fl. ounces of stronger alcohol and macerate for four days. Then displace twenty-four fl. ounces, reserving the first fourteen, evaporate the remainder to two fl. ounces, and mix with the reserved portion. U. S. Ph.

Dose, a teaspoonful.

#### Emulsion of Fluid Extract of Cubebs.

R. Oleoresin of

cubebs. two drachms.

Powdered gum Arabic,

half an ounce. one drachm. sugar, Water, three ounces and a half. Mix. A tablespoonful is equal to two drachms of cubebs. W. Procter.

## Alcoholic Ethereal Extract of Cubebs.

R. Powdered cubebs,

Exhaust by ether, by means of a displacement apparatus, act on residue with diluted alcohol, and distil the two tinctures separately. Evaporate the residue of the alcoholic tincture by means of a water-bath; add both together, and let the remaining ether evaporate spontaneously.

## Lozenges of Alcoholic-Ethereal Extract of Cubebs.

R. Extract of cubebs, eight ounces. two pints. Alcohol,

Dissolve, and add

Powdered sugar, one pound. Oil of peppermint, eighteen drops. Mix, and allow alcohol to evaporate by a gentle heat; reduce to a powder, and add

Mucilage tragacanth, Mix, and divide into lozenges of six to eighteen grains. Labelonye.

#### Cubeb Mixture.

R. Powdered cubebs, two drachms. Carbonate of sodium, half a drm. Mucilage of gum

six fl. drachms. Arabic, Mint water, six fl. ounces.

Mix. A tablespoonful every hour.

Fosbroke.

R. Powdered cubebs, two drachms.

Subnitrate of half a drachm. bismuth,

Mucilage of gum

half fl. ounce. Arabic, Syrup, six fl. drachms. six fl. ounces. Water,

Mix. A tablespoonful four times a day. Fosbroke.

Both these are recommended in the various affections of mucous membranes.

R. Powdered cubebs, two drachms. Wine, two ounces. Essence of bergamot, one drop.

Mix. To be taken every hour or two. Pierquin.

#### Tincture of Cubebs.

R. Powdered cubebs, four troyounces. Diluted alcohol, sufficient.

Obtain by percolation two pints. U.S. Ph. The product of the formula of Brit. Ph. is nearly the same.

Dose, one to two drachms, as a stomachic and carminative, or in advanced stage of gonorrhœa.

#### Ethereal Tincture of Cubebs.

R. Powdered cubebs, four ounces. Spirit of nitrous ether, two pints. Digest for eight days and filter. Service-able in subacute inflammations of bladder, uterus, and of the mucous lining of the Labelonye. stomach and intestines. Mettauer.

## Syrup of Alcoholic-Ethereal Extract of Cubebs.

R. Extract of cubebs, three ounces. Mucilage of gum Arabic, sufficient. Peppermint water, one pint. two pounds. White sugar,

Mix. A teaspoonful, several times a day, in a glass of water. Labelonye.

## Oil of Cubebs.

R. Powdered cubebs, one part. Water, two parts. Distil, and collect the oil. Giordano.

Dose, ten to twelve drops, gradually increased. Given in emulsion, or in gelatin capsules.

## Mixture of Oil of Cubebs and Copaiba.

R. Oil of cubebs, one scruple. Copaiba, two ounces.

Mix. A teaspoonful, four times a day. Béral.

## CUCUMIS.

#### CUCUMIS.

The seeds of several species are sometimes used medicinally, namely, of C. citrullus or watermelon, C. melo or musk melon, and C. sativus or cucumber; the juice of the latter has likewise been employed for making cucumber ointment.

Sex. Syst. Monœc. monad. Nat. Syst. Cu-

curbitaceæ.

They are inodorous, have a mucilaginous and oily taste, and act as a demulcent and diuretic. A decoction made of half an ounce of the seeds to a pint of water has been found useful in incontinence of urine and strangury, in doses of one or two fluidounces.

#### Cucumber Ointment.

R. Green cucumbers (fit for the table), seven pounds. Lard, twenty-four ounces. Veal suet. fifteen ounces.

Wash and grate the unpared cucumbers, and express the juice. Melt the suet, add the lard, and strain, stirring constantly; as it thickens, add one-third of the juice, and beat with a wooden spatula. The part that separates by standing is decanted, and the other two-thirds are consecutively incorporated, and decanted in the same manner. It is usual to keep the ointment in glass jars, covered with rose water, to pre-W. Procter, Jr. vent access of air.

## CUNILA.

## DITTANY.

The whole herb of Cunila mariana. A native plant, found in most places in the United States.

Sex. Syst. Diand. monog. Nat. Syst. La-

miaceæ.

Linn. Sp. Pl. 30. Griffith, Med. Bot. 509. It has a powerful, aromatic odor, and a warm, pungent taste. It is stimulant, carminative, sudorific, and emmenagogue.

## Infusion of Dittany.

R. Dittany, half an ounce. Boiling water, one pint. Infuse and strain. Used warm, as a diaphoretic and emmenagogue.

## Oil of Dittany.

R. Dittany, at will. Water, sufficient. Distil, and separate the oil. As a carminative, in doses of two or three drops, with sugar.

## CUPRUM.

#### COPPER.

A brilliant, ductile, malleable metal, of a reddish color, having an unpleasant taste and smell. It is not used in its pure state in medicine, but its salts afford numerous remedial preparations.

## CUPRI ACETAS.

#### ACETATE OF COPPER.

R. Pulverized verdigris, at will. sufficient. Acetic acid, Dissolve, filter, evaporate, and crystallize. Van Mons.

#### Pills of Acetate of Copper.

R. Acetate of copper, fifteen grains. sufficient Boiling water,

to dissolve; add

five grains. Opium, Extract of liquorice, one drachm. Powdered liquorice,

Mix, and make one hundred and eighty pills. Dose, three to ten, three times a day.

Phœbus.

## CUPRI SUBACETAS PRÆPARATUM.

#### VERDIGRIS.

## Prepared Subacetate of Copper.

R. Virdigris, in powder, at will. Reduce to powder by trituration in a mortar, and separate the finer parts for use by a sieve.

Dub. Ph.

## Powder of Verdigris and Savine.

R. Verdigris,

Savine, equal parts.

Mix. To be dusted on sores with fungous excrescences.

Ellis.

## Verdigris and Alum.

R. Verdigris, Nitre, Alum, eight parts.

Melt together, and add

Camphor, one to two parts.

Much used in Europe as a basis for ophthalmic solutions, under the name of Beer's divine stone.

Radius.

## Ophthalmic Washes.

R. Beer's divine

water, four fl. ounces and a half.
Wine of opium, a fl. scruple to
one fl. drachm.

Mix. In chronic ophthalmia. Benedict.

R. Beer's divine

stone, three to four grains.

Elder water, one fl. ounce.

Tincture of opium, twelve drops.

Solution of subacetate of

lead, five drops.

Rust.

Mix. Used like the last.

#### Compound Verdigris Lotion.

R. Verdigris,

Burnt alum, each, two drachms.

Honey, half an ounce.

White wine, one pint.

Mix. As a wash for indolent venereal or scorbutic ulcers.

Scherf.

## Metz's Balsam.

R. Linseed oil, Olive oil, each, six ounces. Oil of laurel berries, one ounce.
Turpentine, two ounces.

Melt by a gentle heat, and add

Powdered aloes, two drachms.

" verdigris, three drachms.

" white vitriol, one drachm and a half.

Pour into a bottle, and add

Oil of juniper, half an ounce.
" cloves, one drachm.
ix. As a dressing to wounds and ulcers.

Mix. As a dressing to wounds and ulcers.

Guibourt.

## Verdigris Ointment.

R. Verdigris, in fine powder, one drachm.

Simple ointment, fifteen drachms.

Melt the ointment, add the verdigris, and stir till cold.

U. S. Ph. 1840.

Used as a mild escharotic and stimulant to fungous ulcers, to warts, corns, etc., and obstinate cutaneous affections.

R. Verdigris, two drachms.

Oxide of zinc, Camphor, dissolved

in alcohol, each, six drachms.

Triturate well, and incorporate with a melted mixture of

Lard,

Suet, each, and stir till cold. Recommended in scrofulous ophthalmia. Swediaur.

#### Verdigris Plaster.

R. Yellow wax, four parts.
Burgundy pitch, two parts.
Common turpentine, one part.

Melt together, strain, and add

Verdigris, one part.

Paris Codex.

Ph. Germ. directs only one-third part of verdigris. A good application for corns and warts.

## Egyptian Ointment.

R. Verdigris, five parts.
Purified honey,
Strong vinegar,
Burnt alum, seven parts.
half a part.

Mix, and melt by a gentle heat, stirring constantly. This is thought to form an excellent detergent application to ulcers.

Giordano.

## Liniment of Verdigris.

R. Powdered verdigris, one ounce. Vinegar, seven fl. ounces. Honey, fourteen ounces.

Dissolve the verdigris in the vinegar, strain, gradually add the honey, and boil down to proper consistence. Lond. Ph.

Used like the last, and also much diluted as a gargle in venereal sore throat.

## CUPRI CHLORIDUM.

CHLORIDE OF COPPER.

R. Chloride of potassium, seven parts. Sulphate of copper, eleven and a half parts.

Pulverize, mix, and gradually add twelve parts boiling water; on cooling, filter, separate the sulphate of potassium that forms, then permit the crystals of the chloride to form, separate, and dry. Van Mons.

## Cupreous Ether.

R. Chloride of barium, ten parts.
Sulphate of copper, twelve parts.
Sulphuric ether, six parts.

Triturate the salts together, add the ether, and decant when all the chloride of copper is dissolved. Has been recommended in small doses in epilepsy. Van Mons.

## Chloride of Copper and Ammonia.

R. Chloride of copper,

" ammonium, equal parts.

Dissolve in water add liquid ammonia

Dissolve in water, add liquid ammonia, drop by drop, as long as any precipitate takes place, and is again dissolved by the addition of more ammonia; filter, and evaporate.

Augustin.

Used in epilepsy, in doses of two to ten

grains.

# Solution of Ammoniacal Chloride of Copper and Mercury.

R. Copper filings, two drachms. Calomel, two ounces.

Dissolve the copper in two fl. ounces liquid ammonia, and the calomel in two fl. ounces muriatic acid, with fifteen drops of nitric acid; mix the solutions in such proportions that the precipitate that first forms is redissolved.

Radius.

### Koechlin's Drops.

R. Solution of ammoniacal Crun chloride of copper and mercury, two fl. drachms. Distilled water, twenty fl. ounces. the dose.

Mix. Much praised in obstinate venereal affections, scrofula, etc. Dose, a teaspoonful after each meal.

Augustin.

## CUPRUM AMMONIATUM.

AMMONIATED COPPER.

R. Sulphate of copper, half a troyounce.

Carbonate of ammonium,

six drachms.

Rub together in a glass mortar till effervescence ceases, wrap in bibulous paper, and dry with a gentle heat. U. S. Ph.

R. Pure sulphate of copper,

one part.

Water of ammonia, three parts.
Alcohol, six parts.

Dissolve the salt in the ammonia water, add the alcohol, collect the precipitate, and dry between bibulous paper without heat.

Has been used in epilepsy, chorea, hysteria, etc. Dose, a quarter to half a grain twice a day, and gradually increased.

## Solution of Ammoniated Copper.

R. Ammoniated copper, one drachm.
Distilled water, one pint.

Dissolve and filter. Lond. Ph.

As a lotion to foul and indolent ulcers, or internally, in same cases as the powder.

## Injection of Ammoniated Copper.

R. Ammoniated copper, five grains.
Rose water, eight fl. ounces.
Mix. In gonorrhea.

Ellis.

### Powder of Ammoniated Copper and Belladonna.

R. Ammoniated copper,

two to four grains.

Powdered belladonna

root, one to four grains. Sugar, one drachm.

Mix, and form six powders. One to be taken every two hours, in epilepsy. *Hildebrand*.

## Pills of Ammoniated Copper.

R. Ammoniated copper, two grains.
Crumb of bread, sufficient.
Mix, and form four pills. One to be taken twice a day, in epilepsy, gradually increasing the dose.

A. T. Thomson.

R. Ammoniated copper, fifteen grains.

Crumb of bread, two scruples.
Sugar, one scruple.
Liquid ammonia, sufficient.

Mix, and form thirty pills. Dose, one, three times a day, gradually increased. In epilepsy.

Van Mons.

# Compound Pills of Ammoniated Copper.

R. Ammoniated copper,
Opium, each, ten grains.
Extract of dandelion,
Powdered mallow, each,

two scruples.

Mix, and form fifty pills. Dose, five, twice a day, in diabetes. Radius.

## Gargle of Ammoniated Copper.

R. Ammoniated copper, eight grains.
Savine water, six fl. ounces.
Mix. In chronic sore throat. Kopp.

## Ointment of Ammoniated Copper.

R. Solution of ammoniated copper, one fl. drachm. Simple cerate, melted, one ounce.

Mix well. As a stimulant to indolent ulcers.

Swediaur.

# CUPRI SULPHAS.

SULPHATE OF COPPER.

## Powder of Sulphate of Copper.

R. Sulphate of copper, twelve grains. Sugar of milk, four scruples. Mix, and divide into four powders. Much praised in croup—given as follows: one is to be administered at once; another dissolved in three spoonfuls of water, one of which is to be taken every hour. Radius.

R. Sulphate of copper, four grains.
Sugar of milk, eight scruples.
Mix, and divide into eight powders. Two
a day, in obstinate diarrhæa. Elliotson.

# Compound Powder of Sulphate of Copper.

R. Sulphate of copper,

"zinc,
Alum,
Carbonate of lead,
Armenian bole,

equal parts.

fifteen Melt the first three substances together, pulverize, add the other two articles, and sift.

This is a powerful astringent, and has proved useful as a styptic. Cottereau.

## Aluminated Sulphate of Copper. Lapis Divinus.

R. Sulphate of copper,
Nitrate of potassium,
Alum, each, twenty parts.
Melt, and before congealing, add

Powdered camphor, one part.

Used in eye-washes. Paris Codex.

Ph. Germ. adds one and a quarter parts
of camphor, previously mixed with same
quantity of powdered alum.

## Pills of Sulphate of Copper.

R. Sulphate of copper, four grains. Extract of cinchona, thirty-two grains.

Mix, make mass, and divide into sixteen or twenty pills. One to be taken three times a day, in obstinate intermittents.

Ellis.

R. Sulphate of copper,
Ipecacuanha, each, one drachm.
Syrup, sufficient.

Form mass, and divide into pills of five grains each. Dose, two to four, every two or three days, in the morning, before eating, in phthisis.

Foy.

R. Sulphate of copper, six grains.
Powdered calamus, two drachms.
Extract of liquorice,
Water, each, sufficient.
Form mass, and divide into ninety-six pills.

Form mass, and divide into ninety-six pills. Four to seven, two or three times, in the apyrexia of obstinate intermittents.

Adair.

# Pills of Sulphate of Copper and Opium.

R. Sulphate of copper, two grains.
Opium, four grains.
Conserve of roses, sufficient.
Mix, and make sixteen pills. One, three times a day, in obstinate intermittents.

Chapman.

# Compound Pills of Sulphate of Copper.

R. Sulphate of copper, two grains.

Alcohol. ext. cascarilla, seventeen grains.

Opium, two grains.
Syrup of ginger, sufficient.
Mix, and make eight pills. One, three times a day, in epilepsy.

Ainslie.

Electuary with Sulphate of Copper.

R. Sulphate of copper, one scruple.
Opium, one grain.
Armenian bole,
Catechu, each, one drachm and a
half.
Syrup, sufficient.
Mix. In obstinate diarrhæa. Saunders.

## Gargle with Sulphate of Copper.

R. Sulphate of copper, twenty grains.
Infusion of sage, six fl. ounces.
Tincture of myrrh,
catechu,
drachm.

" kino, drachm.
" pimpinella, five

drachms.

Honey, six drachms.

Mix well. In obstinate salivation. Kopp.

## Collyrium of Sulphate of Copper.

R. Sulphate of copper,
Armenian bole, each, eight grains.
Camphor, two grains.
Boiling water, eight fl. ounces.
Rub well together, permit to settle, and strain. As an application in purulent ophthalmia of infants.

Ware.

R. Sulphate of copper, six grains.

Camphor, one drachm.

Boiling water, eight fl. ounces.

Rub the camphor with the water, strain, and add sulphate of copper. As a substitute for the above.

Ellis.

R. Aluminated sulphate
of copper, six grains.
Distilled water, three troyounces.
Dissolve and filter.

Paris Codex.

### Sulphate of Copper Lotion.

R. Sulphate of copper, one ounce and a half.

Alum, five drachms and a half.

Sage leaves, five ounces.

Vinegar, one pint.

Solution of chloride of ammonium, two pints.

two grains. Boil together for half an hour. Used as an application, in a tepid state, to swellings and contusions.

Purmann.

## Injection of Sulphate of Copper.

- R. Sulphate of copper, six grains.

  Distilled water, six fl. ounces.

  Tincture of opium, one fl. drachm.

  Dissolve. As an injection in chronic gonorrhea.

  Ellis.
- R. Sulphate of copper, six grains.
  Distilled water, four fl. ounces.
  Dissolve, and add

Solution subacetate
of lead, twenty drops.

As a wash and injection in phimosis.

Swediaur.

## Ointment of Sulphate of Copper.

R. Sulphate of copper,
Calamine, each, five grains.
Camphor, two grains.
Fresh butter, two drachms.
Triturate well together. A small portion to be applied to the edges of the eyelids, in the evening, in psorophthalmia. Rust.

R. Sulphate of copper,
Verdigris, each, two drachms.
Alum, half an ounce.
Corrosive sublimate, two scruples.
Lard, one pound.
Burgundy pitch, one ounce.
Melt the pitch and lard by a gentle heat, and add the other ingredients, stirring till cold. As a dressing to venereal and fungous ulcers.

Augustin.

R. Powdered sulphate of copper,

"catechu, each, four drachms.

"alum, nine drachms.

"resin, four ounces.
Olive oil, sufficient.

Make ointment. As an application to indolent and ill-conditioned ulcers. Kerr.

## Sulphate of Copper Styptic.

R. Sulphate of copper, three grains.
Sulphuric acid, twenty drops.
Water, two ounces.
Dissolve. In epistaxis. Twenty to forty drops to be taken in water, every hour.

Thatcher.

## CURCUMA.

## TURMERIC.

It is the rhizome of C. longa, an herbaceous plant, indigenous to, and extensively cultivated in, southern and southwestern Asia.

Sex. Syst. Monand. monog. Nat. Syst.

Zingiberaceæ.

Two varieties are known, the round and the long, both produced from the same plant; they are brown-yellow externally, are orange-yellow internally, and present a resinous fracture; odor and taste are aromatic, resembling ginger, with which it agrees in medicinal properties. It is now rarely used in medicine, but is employed for imparting a yellow color to fats and alcoholic liquids, and as a test for alkalies which change the yellow color to brown.

R. Turmeric, bruised, one part.
Stronger alcohol, five parts.
Macerate for a week, and filter.

## CYDONIUM.

## QUINCE SEEDS.

These seeds are the product of Cydonia vulgaris, a small tree, native of some parts of Europe, but extensively cultivated in this country. The fruit is much used for the purpose of making preserves.

Sex. Syst. Icosand. pentag. Nat. Syst. Po-

maceæ.

Persoon, Enchirid. ii. 40. Griffith, Med.

Bot. 291.

The seeds are inodorous, insipid, and abounding with mucilage; one drachm rendering six ounces of water viscid. Used like the other bland mucilages.

## Mucilage of Quince Seeds.

R. Quince seeds, one part.
Rose water, fifty parts.

Macerate for half an hour with occasional agitation, and strain.

Ph. Germ.

R. Quince seeds, one ounce. Boiling water, six fl. ounces.

Digest on hot coals, for two hours; strain. Both these are used in ophthalmia, etc.

#### Quince Seed Mixture.

R. Mucilage of quince
seeds, one ounce.
Yolks of eggs, two.
Honey of roses, three ounces.
Mix. A teaspoonful occasionally, in cough and hoarseness.

St. Marie.

#### Bandoline for the Hair.

R. Mucilage of quince seeds, eight fl. ounces.

Cologne water, or Brandy, eight fl. ounces.

Mix.

Used as an application to the hair, to give gloss and smoothness.

## CYMINUM.

## CUMIN.

Cumin fruit is produced by Cuminum cyminum, an umbelliferous plant, a native of Egypt, but cultivated in southern Europe.

Sex. Syst. Pentand. digyn. Nat. Syst.

Apiaceæ.

Linn. Sp. Pl. 365. Lindley, Fl. Med. 51.

The fruit has a peculiar, strong, heavy odor, and a warm, bitterish, aromatic taste. It is carminative and stimulant, is seldom used internally, but enters into the composition of some warm plasters.

## Cumin Plaster.

R. Cumin,
Caraway,
Laurel berries,
Burgundy pitch,
Yellow wax,
Olive oil,
Water, each,

Caraway,
three ounces.
three ounces.
one fl. ounce
and a half.

Melt the pitch and wax together, add the other ingredients, stirring well, and evaporate to a proper consistence. Lond. Ph.

## CYPRIPEDIUM.

#### LADY'S SLIPPER.

It is the rhizome of two yellow flowering species, C. pubescens and C. parviflorum, both indigenous to North America.

Sex. Syst. Gynand. diand. Nat. Ord. Or-

chidaceæ.

The rhizome is several inches long, horizontal, bent, with prominent scars of the stems and long slender rootlets varying in color from light to blackish brown; they have little odor and a mucilaginous, bitter, and acrid taste. Cypripedium is used as a nervous stimulant in doses of ten to twenty grains.

## Fluid Extract of Cypripedium.

R. Cypripedium, in powder

No. 60, sixteen troyounces.
Alcohol, sufficient.

Macerate the powder, properly packed in a percolator, with one pint of alcohol, for four days; then displace slowly twenty-four fl. ounces, reserving the first fourteen, evaporate the remainder to two fl. ounces and mix with reserved portion.

# D.

## DELPHINIUM.

#### LARKSPUR.

The Delphinium consolida is a native of Europe, but has become partially naturalized in this country, and is also much cultivated in gardens as an ornamental flower.

Sex. Syst. Polyand. trigyn. Nat. Syst. Ra-

nunculaceæ.

Linn. Sp. Pl. 748. Griffith, Med. Bot. 88. Several parts of this plant have been employed medicinally, as the flowers, seeds, and root. They owe their properties to the presence of an alkaloid, called delphinia. The flowers are said to be diuretic, vermifuge, and emmenagogue; and the seeds and root to be diuretic, etc.

## Tincture of Larkspur Seeds.

R. Larkspur seeds, one ounce.
Diluted alcohol, one pint.

Macerate for some days, and filter. Dose, ten to twenty drops, three times a day, in spasmodic asthma.

Augustin.

## DELPHINIA.

## DELPHINIA.

This alkaloid is prepared from the seeds of different species of *Delphinium*, but generally from those of the *D. staphisagria*.

R. Larkspur seeds, at will. Water, sufficient.

Boil, repeat the decoction with another portion of water, till all soluble portions of the seeds are dissolved. Concentrate the united decoctions, add calcined magnesia, and filter after a short ebullition. Wash the precipitate with cold water, and dry it; digest it in alcohol on a water-bath, and permit to crystallize.

Magendie.

This is used in the same cases as veratria, in doses of a quarter to half a grain, to the extent of two or three grains a day. It is also employed in ointment, or in solution in

alcohol.

## Solution of Delphinia.

R. Delphinia, one scruple. Rectified spirit, two fl. ounces. Dissolve. For outward use. Turnbull.

## Ointment of Delphinia.

R. Delphinia, ten to thirty grains.
Olive oil, one drachm.
Rub together, and add

nub together, and add

Lard, one ounce.

Mix well. Turnbull.

## DEXTRINUM.

## DEXTRIN .- GUM STARCH.

It is obtained on a large scale by heating starch with great care to between 300° and 350°. It is a yellowish powder, almost inodorous, nearly tasteless, soluble in water, but insoluble in strong alcohol. Ph. Germ. directs to heat one hundred and fifty parts of starch with three times its weight of water and four parts of oxalic acid, until the starch has disappeared; the acid is neutralized by carbonate of calcium, and the filtrate evaporated to dryness. When pure it is not colored blue by iodine, and does not, at ordinary temperature, reduce alkaline solutions of oxide of copper.

It is used to form immovable apparatus for fractures, and internally, dissolved in

water, as a demulcent drink.

## Purified Dextrin.

R. Dextrin, ten parts.

Cold water, eighteen parts.

Dissolve, strain, add to the liquid twice its bulk of alcohol and, when clear, decant; dissolve the precipitate in a little distilled water, and dry upon plates.

Hager.

## Dry Narcotic Extracts.

R. Pure dextrin,

Narcotic extract, each, ten parts. Mix, dry below 122° F., add dextrin to make twenty parts, and powder. When employing narcotic extracts in the form of powder, the physician prescribes the ordinary extract, and the pharmacist dispenses double the weight of the extract dried as above.

Ph. Germ.

## DIANTHUS.

#### PINK.

The only species that is officinal is *D.* caryophyllus or clove pink, a native of the south of Europe, but generally cultivated in gardens, for the beauty and fragrance of its flowers.

Sex. Syst. Decand. digyn. Nat. Syst. Caryophyllaceæ.

Linn. Sp. Pl. 587. Woodville, Med. Bot. i.

The parts used are the flowers; these should be of a dark-red color, and very aromatic. They are principally employed to form a syrup, which is used as a vehicle for other medicines.

## Syrup of Clove Pink.

R. Petals of clove pink, one part. Boiling water, ten parts.

Infuse for six hours, strain, and add nine-Paris Codex. teen parts of sugar.

## DIGITALIS.

### FOXGLOVE.

The foxglove is a native of Europe, but is cultivated in this country, both as an ornamental plant, and for medicinal purposes.

Sex. Syst. Didynam. angios. Nat. Syst.

Scrophulariaceæ.

Linn. Sp. Pl. 868. Griffith, Med. Bot. 520. The parts used are the leaves; these should be collected from wild plants, when about two-thirds of the flowers are expanded, dried in the dark, and always kept from the light. When good, they are of a dull green color, a feeble, narcotic odor, and a bitter, unpleasant taste. Digitalis is narcotic, sedative, and diuretic, and, in large doses, poisonous. It is given to fulfil many indications; as a diuretic, as a sedative, and antispasmodic, to reduce the force of the circulation, etc. It is given in substance in the dose of one grain, two or three times a the dose of one grain, two or three times a day, gradually increasing the quantity to four grains, or until some effect is produced on the system.

## Powder of Foxglove.

R. Powdered foxglove, one grain. cinnamon, four grains.

sugar, ten grains.

Mix. For a single dose, to be repeated two or three times a day.

R. Foxglove, a quarter to one grain. Sulphate of quinia, a half to two grains. Fennel, six grains. Sugar of milk, ten grains.

Mix. To be taken three or four times a day, in phthisis. Gunther.

R. Powdered foxglove, ten grains.

> calomel. six grains. 66

> valerian, two scruples.

66 assafetida,

44 castor,

each, half a drachm.

sugar, one drachm.

Mix, and divide into twenty-four powders. One, morning and evening, in the convulsions attendant on hydrocephalus.

Pierquin.

R. Powdered foxglove, fifteen grs.

three drachms. nitre,

cremor tartar.

half an ounce.

Mix, and divide into six powders. One to be taken every two hours. As a diuretic in dropsies.

R. Powdered foxglove, six grains. Golden sulphuret of antimony, Calomel, each, three grains. Sugar, one drachm.

Mix, and divide into six powders. One, every three hours, in peripneumonia.

Radius.

R. Powdered foxglove, eight grains. Extract of opium, four grains. one drachm. Sugar, Oil of peppermint, four drops.

Mix, and divide into eight powders. One in the evening, in palpitation of the heart.

St. Marie.

## Extract of Digitalis.

twenty parts. R. Fresh digitalis, Water, one part.

Beat in a stone mortar into pulp, express; treat residue with three parts of water in same manner; heat mixed liquids to 1750, strain, and evaporate to two parts. Mix this with two parts of alcohol; after twentyfour hours strain, express sediment, exhaust this thoroughly with one part of diluted alcohol, filter the mixed liquors, and evaporate to proper consistence. Ph. Germ.

Paris Codex infuses dry digitalis with hot water, and evaporates. Dose, half to

three grains.

## Alcoholic Extract of Digitalis.

R. Digitalis, in powder,

twelve trovounces. No. 60, Alcohol, a pint. Diluted alcohol, sufficient.

Displace powder first with alcohol, then with diluted alcohol to obtain three pints. Evaporate first pint spontaneously to three fluidounces; evaporate remainder to syrup, mix with other portions, and evaporate at 120° to proper consistence.

Paris Codex exhausts one part digitalis with six parts alcohol, sp. gr. 0.914, displacing finally with water, distils, and evap-

orates.

## Bolus of Foxglove.

R. Powdered foxglove, fifteen grains. Calomel, eight grains. Root of juniper, one drachm.

Mix, and form four boluses. One, every four hours, in encephalitis. Brera.

R. Powdered foxglove, twelve grains.
Calomel, six grains.
Tartar emetic, two grains.
Purified honey,
Powdered liquorice root,

each, sufficient.

Mix, and form four boluses. One, every four hours, in hemoptysis and engorgement of the abdominal viscera.

Brera.

## Pills of Foxglove.

R. Powdered foxglove, twelve grains.
Calomel, six grains.
Opium, two grains.
Conserve of roses, sufficient.

Mix, and form twelve pills. One to be taken every eight hours, in hydrothorax and ascites.

Ellis.

R. Powdered foxglove, four grains.

"camphor, twelve grains.

Extract of henbane, eighteen grs.

Mix, and make six pills. Two to be taken at bedtime. Used in maniacal and spasmodic affections.

A. T. Thomson.

R. Powdered squill,

"myrrh,
"foxglove,
Calomel,
Triturate together, and add
"four grains.
one scruple.
ten grains.
six grains.

Assafetida, half a drachm. Extract of gentian, sufficient. Beat into mass, and divide into fifteen pills. One, night and morning, as a diuretic in dropsies.

Paris.

R. Powdered foxglove,

" opium, each, six grains.
Conserve of roses, sufficient.
Mix, and make twelve pills. One to be taken every four hours. In asthma, etc.

R. Powdered foxglove, one drachm. Extract of hemlock, ) each,

" rhubarb, half a drachm.

Aloes, four scruples.
Oxymel of squill,
Powdered liquorice root,
each, sufficient.

Mix, and make pills of six grains. Three to be taken morning and evening. In dropsy, etc.

Brera.

## Pills of Foxglove and Squill.

R. Powdered foxglove,

"squill, each, one part.

Aromatic electuary,
Confection of roses, sufficient.

Beat them into a mass, and divide into pills of four grains each.

Ed. Ph.

Dose, one or two pills.

## Infusion of Digitalis.

R. Digitalis, in powder,
No. 20, one drachm.
Boiling water, half a pint.
Tincture of cinnamon, one
fl. ounce.

Macerate the foxglove with the water, in a covered vessel, for two hours; strain, and add the tincture.

U. S. Ph.

The dose is half a fl. ounce, twice a day, till the system is affected.

B. Digitalis, bruised, thirty grains. Boiling distilled water, ten fluidounces.

Infuse for one hour, and strain. Brit. Ph.
About half the strength of preceding.

## Fluid Extract of Digitalis.

R. Digitalis, in powder,
No. 50, sixteen troyounces.
Glycerin, three fluidounces.
Alcohol, twelve fluidounces.
Water, one fluidounce.

Mix the liquids, moisten the powder with half a pint of the mixture, pack it well into a percolator, add the remaining liquid, and macerate for four days; then displace with diluted alcohol twenty-four fluidounces, reserve the first fourteen fluidounces, add to the remainder one fluidounce of glycerin, evaporate to two fluidounces, and mix with the reserved portion.

U. S. Ph.

# Mixture of Foxglove and Acetate of Potassium.

R. Infusion of foxglove, four fl. ounces.

Tincture of foxglove, one fl. drachm.

Acetate of potassium, one drachm.

Tincture of opium, ten drops.

g. In Mix. A dessert spoonful three or four times Brera. a day; as a diuretic. Ellis.

# Mixture of Foxglove and Acetate of Lead.

R. Powdered foxglove, three to five grains.
Solution of subacetate

of lead, five drops.

Syrup of orange flowers, one ounce.

Infusion of poppies, six ounces.

Mix. In spoonful doses, in hypertrophy of the heart.

Foy.

# Mixture of Foxglove and Tartaric Acid.

R. Infusion of foxglove, half an ounce.

Tartaric acid, one scruple.

Carbonate of sodium,

twenty-four grains.
Sweet spirit of nitre, one drachm.
Tincture of squill, four drops.
Mint water, two ounces.

Mix. As a diuretic, in ascites. To be taken twice or thrice a day.

Dewees.

## Expectorant Mixture of Foxglove.

R. Foxglove leaves, thirty grains.
Boiling water, sufficient
to obtain four ounces of strained infusion,
add

Syrup of gum Arabic, three ounces.

Kermes mineral, six grains.

Syrup of mallows, one ounce.

Mix. To be taken in teaspoonful doses, in pneumonia and pleurisy.

Brera.

## Tincture of Digitalis.

R. Digitalis, in powder,

No. 60, four troyounces.
Diluted alcohol, sufficient.
Obtain by displacement, two pints of tincture.

U. S. Ph.

Tincture of Brit. Ph. is about the same strength. Paris Codex displaces with alcohol of 0.914, five parts from one part digitalis.

R. Fresh digitalis, five parts.
Alcohol, six parts.
Bruise leaves in stone mortar, add alcohol, macerate for eight days, express, and filter.

Ph. Germ.

Dose, from ten to thirty drops, two or three times a day; in delirium tremens half a teaspoonful to a tablespoonful.

## Ethereal Tincture of Digitalis.

- R. Digitalis, bruised, one part. Spirit of ether, ten parts. Macerate for eight days, express, and filter. Ph. Germ.
- R. Powdered digitalis, one part. Spirit of ether, sp. gr. 0.76, sufficient.

Displace five parts. Paris Codex.
The latter, apparently, is double the strength of the former, but contains more ether, which does not dissolve digitalin. Dose, ten to twenty grains.

R. Digitalis, bruised, one ounce and a half. Spirit of nitrous ether, two pints. Macerate for ten days, and filter. Dose, twenty drops to a fl. drachm in some diuretic infusion, in dropsies.

Mettauer.

## Mixture of Tincture of Foxglove.

R. Tincture of foxglove, one fl. drachm.

"opium, sixty drops.
Distilled water, two fl. ounces.

Mix. A teaspoonful, two or three times a day, in hemoptysis and incipient phthisis.

Ellis.

## Wine of Digitalis.

R. Digitalis, three parts.
Alcohol, sp. gr. 0.914, six parts.
Macerate for twenty-four hours, and add
Good white wine, one hundred
parts.
Macerate for ten days, express, and filter.
Paris Codex.

A tablespoonful represents about six and a half grains digitalis.

## Vinegar of Digitalis.

R. Digitalis, cut, one part.
Distilled vinegar, nine parts.
Alcohol, one part.

Macerate for eight days, express, and filter.

Ph. Germ.

A teaspoonful, several times a day. Highly spoken of in incipient phthisis.

#### Ointment of Foxglove.

R. Extract of digitalis, one part. Simple ointment, nine parts.

Mix thoroughly. Ph. Germ.

R. Bruised foxglove leaves, one part. Lard, two parts.

Melt over a slow fire, until all moisture is driven off, and strain. As an application to chronic ulcers. Soubeiran.

## Plaster of Foxglove.

R. Foxglove leaves, two drachms. Vinegar, one fl. ounce.

Macerate, and evaporate to consistence of an extract, and add

Calomel, ten grains. Elemi ointment, eight scruples. Mix. In chronic glandular swellings.

Sundelin.

## Syrup of Digitalis.

R. Tincture of digitalis, one part.
Simple syrup, forty parts.

Mix tincture with one-tenth of hot syrup, evaporate alcohol, and mix with remainder.
A tablespoonful represents one and a half grains of digitalis.

Paris Codex.

R. Digitalis bruised, four troyounces. Water, sufficient. Sugar, one pound.

Exhaust, by process of displacement, evaporate in a water-bath to ten ounces, add sugar, and form syrup. One teaspoonful is equivalent to fifteen grains of digitalis, or about two ounces of infusion. Duhamel.

## DIGITALINUM.

DIGITALIN.

R. Digitalis in powder,
No. 50, forty-eight troyounces.
Stronger alcohol, six pints.
Water, two pints.

Displace powder slowly with mixed liquids, afterwards with diluted alcohol, to obtain eight pints of tincture. Distil off six pints and a half, to residue add half a fl. ounce acetic acid, and two drachms purified animal charcoal, and after twenty-four hours, filter. Neutralize filtrate nearly with ammonia, then precipitate with tannin (four drachms dissolved in half a pint of water), filter, wash precipitate with little water, mix with two drachms levigated oxide of lead, and dry. Powder residue, add one drachm animal charcoal, digest with three ounces stronger alcohol for one hour at 160°, pass through small filter, wash with three ounces

of warm alcohol, evaporate filtrate, powder residue, wash twice with half a fluidounce of strong ether, and dry the powder.

This is essentially the process of Brit. Ph. Paris Codex obtains from two hundred parts of leaves, by displacement with cold water, six hundred parts of infusion of at least 1.05 sp. gr. This is-precipitated by slight excess (fifty parts) of solution of subacetate of lead, the filtrate precipitated by (eight parts) carbonate of sodium, then by (four parts) ammonio-phosphate of sodium, and the filtrate by an excess (eight parts) of tannin; the precipitate is collected, while moist, mixed with five parts oxide of lead, dried, powdered, and exhausted with alcohol; the solution is decolorized by animal charcoal (one part), evaporated, residue washed with little distilled water, drained, dissolved in boiling alcohol, and evaporated. Residue is again dissolved in hot alcohol, evaporated, washed with cold water, redissolved in alcohol, and evaporated. Residue is treated with chloroform, and this solution evaporated spontaneously, when pure di-gitalin is left. This is about twice more active, than that which has not been treated with chloroform. Paris Codex.

Yellowish-white powder, inodorous (of peculiar aromatic odor, Paris Codex), and very bitter; nearly insoluble in cold water and pure ether, easily soluble in alcohol (and in chloroform, Codex); its solution in muriatic acid is yellow, soon becoming

reen

Dose, one-sixtieth to one-thirtieth of a grain, very carefully increased.

## Hypodermic Injection of Digitalin.

R. Digitalin, one grain.
Glycerin,
Water, of each, two fl. drachms.

Dissolve. Four drops are equal to about one-sixtieth of a grain.

Ullersperger.

## Pills of Digitalin.

R. Digitalin, three-quarters of a grain. Powdered gum Arabic, Mucilage of gum Arabic, each, sufficient.

Mix, and make twenty pills. Dose, one to four daily, in hypertrophy of the heart. Bouchardat.

R. Digitalin, three-quarters of a grain. Powdered squill,

> scammony, each, seventy-five grains.

Syrup of gum Arabic, sufficient.

Rub well together, and divide into one hundred pills. Give two pills, then four, and afterwards six daily, in dropsy with disordered circulation.

Falken.

## Granules of Digitalin.

R. Digitalin, fifteen and a half grains.
Sugar, one ounce and a half.
Gum water, sufficient.

Mix, and form one thousand granules. Dose, from four to six a day. Homolle.

## DIOSPYROS.

## PERSIMMON.

The Persimmon, or Diospyros Virginiana, is a native tree, found in the middle and southern States; most frequently in the latter.

Sex. Syst. Diœc. octand. Nat. Syst. Ebenace:e.

Linn. Sp. Pl. 1510. Griffith, Med. Bot.

Several parts of the Persimmon have been used in medicine, as the bark and the unripe fruit. They are both powerful astringents, and have been employed with success in bowel complaints and hemorrhages. The bark may be given in infusion; the fruit in syrup or vinous tincture.

#### Infusion of Persimmon Bark.

R. Persimmon bark,

Boiling water, half an ounce. one pint.

Macerate for two hours, and strain.

Used in doses of a fl. ounce, in intermittents, and as a gargle in ulcerated sore throat.

#### Wine of Persimmons.

R. Crushed green persim-

mons, one pound.
Port wine, one pint and a half.
Macerate for fourteen days, strain, and filter. Dose, two to four fl. drachms a day, as an astringent.

Beasley.

#### DIRCA.

#### LEATHERWOOD.

The Dirca palustris is an indigenous shrub found in boggy situations, with long, tough roots.

Sex. Syst. Octand. monog. Nat. Syst. Thymelacere.

Linn. Amœn. iii. 12. Griffith, Med. Bot.

The part used is the bark, which is very fibrous; it causes redness and vesication, when applied to the skin; when chewed, it induces salivation. It has been given in infusion or decoction, as a sudorific and expectorant, and also in the same class of diseases as mezereon.

## DRACONTIUM.

## SKUNK CABBAGE.

A perennial plant, with very large leaves, indigenous to the United States, growing in wet situations. It is the Symplocarpus factidus or Dracontium factidum.

Sex. Syst. Tetrand. monog. Nat. Syst.

Orontiaceæ.

Linn. Sp. 1372 (Dracontium). Griffith,

Med. Bot. 619.

The root is officinal, but the seeds are equally powerful. They both have a very acrid taste when fresh. The leaves, when bruised, have a nauseous smell, and are a good stimulating application to blisters. The root and seeds are stimulant, antispasmodic, and narcotic; and have been employed with success in asthma, hysteria, etc. The dose in powder is from two to twenty grains, several times a day.

## Infusion of Skunk Cabbage Root.

R. Skunk cabbage root, one ounce.

Boiling water, one pint.

Infuse in a covered vessel for an hour,
and strain. Dose, an ounce to two ounces.

## Tincture of Skunk Cabbage Root.

R. Skunk cabbage root,

sliced, one ounce.
Alcohol, six fl. ounces.

Macerate for fourteen days, and strain.

Turner.

## Tincture of Skunk Cabbage Seed.

R. Skunk cabbage seed, two drachms.
Alcohol, four fl. ounces.

Macerate for fourteen days, and strain.

Turner.

## DULCAMARA.

#### BITTERSWEET.

The Bittersweet, or Solanum dulcamara, is a climbing shrub, indigenous to Europe, and naturalized extensively in this country. Sex. Syst. Pentand. monog. Nat. Syst. Solanaceæ.

Linn. Sp. Pl. 264. Griffith, Med. Bot. 480. The officinal portions are the young branches. These have a heavy, unpleasant odor, when fresh, but are scentless when dry. They have a somewhat bitter taste, followed by a peculiar sweetness. The properties of Bittersweet are those of a narcotic, diuretic, diaphoretic, and alterative. It has been used in chronic rheumatism, asthma, etc., and especially in chronic cutaneous disorders. The dose, in substance, is from thirty grains to a drachm; but it is seldom given in this form.

### Decoction of Bittersweet.

R. Bittersweet, bruised,

one troyounce. sufficient. Water,

Boil with a pint of water for 15 minutes, strain, and add sufficient water through the strainer to obtain a pint. U. S. Ph.

Dose, from one to two fl. ounces, three or four times a day, gradually increased till a pint is taken in the twenty-four hours. In chronic eruptions, etc.

## Compound Decoction of Bittersweet.

R. Bittersweet, half an ounce. Liquorice root, Burdock, each, Sassafras bark, two drachms. Guaiacum,

Water, two pints. Boil down to sixteen ounces, and strain. Dose, one to two fl. ounces, several times a day, in chronic rheumatism, and venereal affections. Augustin.

#### Infusion of Dulcamara.

R. Dulcamara, one ounce. Boiling distilled water, ten ounces. Infuse for one hour and strain. Used like the preceding. Brit. Ph.

### Extract of Bittersweet.

R. Bittersweet, in powder,

twelve troyounces. No. 50, Diluted alcohol, sufficient.

Displace until the tincture passes but slightly impregnated with the properties of the bittersweet. Distil to one-half, strain, and evaporate to proper consistence. U. S. Ph.

Dose, from five to ten grains.

Paris Codex prepares this extract by displacement with cold water and removing the albumen by heating the infusion; Ph. Germ. directs digestion for six hours.

#### Fluid Extract of Bittersweet.

R. Bittersweet, in powder, No. 50, sixteen troyounces. Glycerin, three fluidounces. Alcohol, half a pint. Water, five fluidounces.

Moisten the powder with six fluidounces Mix. A teaspoonful, in chronic catarrh in of the mixed liquids, pack into a suitable children.

percolator, add the remaining liquid, and when all has been absorbed, macerate for four days; then displace with diluted alcohol twenty-four fl. ounces, reserve the first fourteen fluidounces, add to the remainder one fluidounce of glycerin, evaporate to two fluidounces, and mix with the reserved portion. U. S. Ph.

## Syrup of Bittersweet.

R. Powdered bittersweet,

four ounces. Water, twelve fl. ounces. Alcohol, four fl. ounces.

Mix the fluids, pour on the powder in a displacer, until one pound of tincture is obtained, adding water to displace the diluted alcohol. Evaporate to half a pint, add fifteen ounces of sugar, and make a syrup.

W. Procter.

Dose, a tablespoonful. This is more than double the strength of the syrup of Paris Codex, which makes it from a hot aqueous infusion.

### Pills of Extract of Bittersweet.

R. Extract of bittersweet, one ounce. Crude antimony,

Powder of bittersweet,

each. half an ounce.

Mix, and form pills of two grains each. Dose, from fifteen to twenty, twice a day, in obstinate cutaneous affections.

Radius.

#### Mixture of Bittersweet.

R. Extract of bittersweet,

three drachms.

seneka, two drachms.

66 conium, one drachm.

Antimonial wine, Cinnamon water,

> each, one fl. ounce.

Mix. Forty to eighty drops, four times a day, in scrofulous swelling, spasmodic cough, etc. Augustin.

R. Extract of bittersweet,

half a scruple.

Infusion of liquorice, Decoction of mallows,

one ounce and a half. each, two drops. Wine of opium, three drachms. Oxymel,

Radius.

# E.

## ELATERIUM.

## ELATERIUM

Is a peculiar substance deposited by the lightly expressed and strained juice of the fruit of *Momordica elaterium* or *Ecbalium agreste*, a native of the south of Europe, growing in waste places.

Sex. Syst. Monœc. monad. Nat. Syst. Cu-

curbitaceæ.

Griffith, Med. Bot. 305.

Elaterium is in light, friable, thin, somewhat curled flakes or fragments, of a pale, grayish-green color. The taste is acrid, and bitterish; but the odor is very slight. The dose is from one to two grains, of the common commercial kind; of the pure and genuine, not more than one-eighth to a quarter of a grain.

### Elaterium Pills.

R. Elaterium, ten grains.
Extract of gentian, three drachms.
Mix, and form pills of four grains each.
One or two, twice a day, as a hydragogue purgative.

Saunders.

R. Elaterium, six grains.

Extract of gentian,
Soap, each, nine grains.

Mix, and form twelve pills. One to four in obstinate constipation.

Radius.

R. Elaterium, half a drachm.
Aloes,
Gamboge, each, two drachms.
Ammoniac, two ounces.
Tincture of wormwood, sufficient.

Mix, and form pills of four grains each. Swed. Ph.

R. Elaterium, fifteen grains.
Sulphate of potassium, one scruple.
Soap, one drachm.
Powdered ginger,

one drachm and a half.

Rub the elaterium and sulphate of potassium together, and then with the ginger and soap, adding sufficient water to form mass, and make sixty pills. One or two every hour, until full evacuations are procured.

Sprague.

R. Elaterium, one grain.

Compound extract of of colocynth, forty grains.

Nitric act Mix. Dose, to namon water.

Extract of hyoscyamus,
twelve grains.
Mix, and form twelve pills. One at night.
Kilgour.

## Elaterium Mixture.

R. Elaterium, one grain.

Spirit of nitrous
ether, two fl. ounces.
Tincture of squill,
Oxymel of colchicum,
each, half a fl. ounce.
Syrup, one fl. ounce.
Mix. A teaspoonful three or four times a day, in a little water. In ascites, or hydrothorax.

Ferriar.

R. Elaterium, one grain.
Parsley water, six fl. ounces.
Oxymel of squill,
Syrup of buckthorn, each, half a
fl. ounce.
Roob of juniper, one ounce.
Aromatic tincture, one drachm.
Spirit of nitrous ether, two fl.
drachms.

Mix. Used as above, and in the same cases. Hufeland.

## Oil of Elaterium.

R. Fruit of elaterium, one part.
Oil of olives, two parts.
Digest in a water-bath, for some days, then evaporate all moisture, and strain. As an application for sore nipples, frosted limbs, and painful hemorrhoids.

Lond. Ph.

## ELATERINUM. ELATERIN.

R. Juice of ecbalium, at will.

Treat with water, dissolve the residue in alcohol, evaporate to consistence of syrup, purify the crystals that form by washing with ether. Dose, one-sixteenth of a grain.

## Tincture of Elaterin.

R. Elaterin, one grain.
Alcohol, one ounce.
Nitric acid, four drops.
Mix. Dose, twenty to forty drops, in cinnamon water.

Morris.

## ELEMI. ELEMI.

Elemi is a resinous exudation of various species of plants, principally belonging to the natural order of Amyridaceæ. It oc-curs in masses of various consistence and color, but usually diaphanous; it has a terebinthinate and somewhat aromatic odor, and a warm unpleasant taste. It has the usual properties of the turpentines, but is only employed as an external application. It is seldom used in this country, but is extensively employed in Europe.

## Ointment of Elemi.

R. Elemi, Venice turpentine, each, equal parts. Suet, Lard,

Melt carefully together, and strain.

Ph. Germ.

R. Elemi, one part. Simple ointment, four parts. Melt, strain through flannel, and stir until it solidifies. Brit. Ph.

## Elemi Plaster.

R. Burgundy pitch, eight parts. Elemi, two parts. Common turpentine,

Oil of bayberries, each, one part. Melt together and strain. Paris Codex. As an active stimulant to flabby ulcers, etc.

## Elemi Cautery Plaster.

R. Elemi, Spermaceti, each, five parts. Turpentine, six parts. White wax, ten parts.

Melt together, and spread on paper. To keep up discharge from issues. Soubeiran.

## EMETIA.

#### EMETINA.

This is a peculiar alkaloid, found in the various kinds of ipecacuanha, and to which they owe their active properties. There are two varieties, the colored or impure, and the white or pure. The latter is seldom met with.

## Impure Emetina.

R. Ipecacuanha, in coarse powder, Stronger alcohol, each, sufficient. Exhaust the powder by maceration or displacement, distil, and evaporate to a syrupy consistence, mix with water, filter, and evaporate carefully to dryness.

Cottereau.

It is reddish-brown, inodorous, bitter, and deliquescent. Dose, half a grain to one

This is the extract of ipecacuanha of some

pharmacopæias.

#### Pure Emetina.

R. Impure emetina, at will.

Dissolve in water, treat with magnesia, wash with cold water, treat several times with alcohol, on a water-bath, evaporate the solution to dryness, dissolve the residues in very dilute sulphuric or acetic acid, boil with a little animal charcoal, add an alkaline solution to saturate the acid, dry the precipitate, dissolve it in alcohol, and evaporate to dryness. Cottereau.

It is yellowish, or white, pulverulent, not deliquescent. Dose, 16th to 4th of a grain.

#### Emetine Mixture.

R. Impure emetina, four grains. Infusion of orange leaves, two fl.

ounces.

Syrup of orange flowers, half a fl. ounce.

Mix. A dessertspoonful every half hour, to produce vomiting. Magendie.

R. Pure emetina dissolved

in nitric acid, one grain. Infusion of linden, three fl. ounces. Syrup of mallow, one fl. ounce.

Mix. Given as the last. Foy.

## Emetine Lozenges.

R. Impure emetina, thirty-two grains. two ounces. Sugar, Mucilage of tragacanth, sufficient. Rub together, and form lozenges of ten grains. One will usually vomit a child, and three or four an adult. Magendie.

R. Impure emetina, thirty-two grains. four ounces. Mucilage of tragacanth, sufficient. Mix, and form lozenges of nine grains each. One occasionally as an expectorant. Guibourt.

#### Syrup of Emetina.

R. Impure emetina, sixteen grains. Dissolve in a little water, filter, and add one pound. Syrup,

R. Pure emetina, four grains.
Syrup, one pound.
Mix. The dose of these syrups is a teaspoonful.

Soubeiran.

## ERGOTA.

## ERGOT.

Ergot is the sclerotium of a fungus, called Claviceps purpurea, which replaces the grain of the common rye. Ergot is one of the few articles that act specifically on the uterus, increasing its contractile energy; and its principal use is as a stimulant to uterine action in labor, and also to check hemorrhage from that organ; but it has been employed in a variety of other diseases, and especially, externally, as a styptic. The dose, in substance, to aid labor, is from fifteen to twenty grains, to be repeated every twenty minutes, till the desired effect is produced, or till a drachm is taken.

## Infusion of Ergot.

R. Ergot, fifty-five grains.
Boiling water, five fl. ounces.
Infuse. One to two fl. ounces as a dose, to be repeated every twenty minutes.

Brit. Ph.

B. Ergot, half a drachm. one fl. ounce and a half.

Infuse for half an hour, and strain. To be repeated every four hours. Ramsbotham.

## Fluid Extract of Ergot.

R. Ergot, in powder,

No. 50, sixteen troyounces. Clycerin, three fl. ounces. eight fl. ounces. Water, five fl. ounces.

Mix the liquids, moisten the powder with four fl. ounces of the mixture, pack into a percolator, add the remaining liquid, and macerate for four days; then displace with diluted alcohol twenty-four fl. ounces, reserve the first fourteen fl. ounces, add to the remainder half a fl. ounce of acetic acid and one fl. ounce of glycerin, evaporate to two fl. ounces, and mix with the reserved portion.

U. S. Ph.

R. Ergot, in coarse powder

one pound (avoir.).
Washed ether, sufficient.
Distilled water, three pints (imp.).
Alcohol, eight fl. ounces.

Place the ergot in a percolator and remove the oil by passing the ether slowly through it. Digest the marc in the water at 160° for twelve hours. Press out, strain, and evaporate by a water-bath to nine fl. ounces; when cold add the alcohol and, after an hour, filter.

Brit. Ph.

Dose, ten to twenty minims.

## Wine of Ergot.

R. Fluid extract of ergot, four fl. ounces.

Sherry wine, twenty-eight fl. ounces.

Mix and filter. U. S. Ph.

Dose, in labor, two to three fl. drachms; for other purposes, one to two fl. drachms.

## Syrup of Ergot.

R. Ergot, powdered, five parts.
White wine, thirty-six parts.
Macerate for four days, express, filter, and dissolve in thirty parts of the filtrate

Sugar, fifty parts.
One troyounce contains about thirty grains of ergot.

Guibourt.

R. Ergot, twenty grains. Extract of opium,

Syrup, eight fl. ounces.

Mix. Dose, one fl. ounce, occasionally, in engorgement of the uterus.

Lisfranc.

## Tincture of Ergot.

R. Ergot, five ounces (avoir.).
Diluted alcohol, sufficient.
Obtain by maceration and displacement one pint (imp.). Dose, twenty drops to a fl. drachm.

Brit. Ph.

R. Ergot, bruised, one part.
Alcohol, 60 per cent., five parts.

Macerate for ten days, strain, express, and filter.

Paris Codex.
The tincture of Ph. Germ. is one-half

the strength of the preceding.

## Ethereal Tincture of Ergot.

B. Powdered ergot, two ounces.
Spirit of nitrous ether, one pint.
Digest for ten days and filter. Used in uterine hemorrhages. Dose, one fl. drachm.

Mettauer.

## Compound Powder of Ergot.

R. Powdered ergot, two scruples.

" cubebs, one ounce.

" cinnamon, half a

drachm.

Mix, and divide into eight powders; one to be taken, three or four times a day, in leucorrhœa or gleet.

Ryan.

## Ergot Mixture.

R. Powdered ergot, half a drachm.
Syrup, half a fl. ounce.
Mint water, one fl. ounce.
Mix. One-third to be taken at a dose, and repeated every twenty minutes; to aid labor.

Soubeiran.

R. Powdered ergot, one drachm.

Syrup, three fl. ounces.

Tincture of opium, twenty drops.

Essence of bergamot, six drops.

Mix. A spoonful, to be repeated as may be required.

Pierquin.

R. Fluid extract of ergot, two
fl. drachms.
Tincture of digitalis, two
fl. drachms.
Gallic acid, one drachm.
Compound infusion
of rose, six fl. ounces.
Mix. Dose, one to two tablespoonfuls, in
pulmonary hemorrhage.

Dobell.

pulmonary hemorrhage. Dobell.

R. Tincture of ergot, thirty minims.

Syrup of saffron, half a fl. ounce.

Compound decoction of

aloes, one fl. ounce and a half.

Tilt.

Mix. Dose, a teaspoonful thrice daily.

Ergot Clyster.

R. Powdered ergot, one to three drachms.

Water, twelve fl. ounces.

Boil for ten minutes, and strain. As an enema, to aid labor.

Foy.

### Compound Ergot Pills.

R. Powdered ergot, half a drachm.
Extract of gentian, one drachm.
Rub together, and make fifteen pills. In
dysmenorrhæa. One pill to be taken three
times a day.

Dewees.

## Ergot Injection.

R. Powdered ergot, half an ounce.
Boiling water, half a pint.
Infuse, and strain. As an injection in erythema of the vagina and urethritis.

Desruelles.

## Extract of Ergot, or Ergotine.

R. Powdered ergot, one part.

Water, sufficient.

Exhaust the ergot by the process of displacement; heat the solution on a waterbath, filter, and evaporate to consistence of syrup; add one part of alcohol to precipitate gummy principles; permit to rest, filter, and evaporate to consistence of soft extract.

Ph. Germ.

This was recommended by Bonjean, and is said to be very efficacious in hemorrhages, in doses of two grains every two hours; also applied as a styptic to bleeding vessels.

## Ergotine Mixture.

R. Extract of ergot, fifteen grains. Syrup of orange flowers,

Water, three fl. ounces.

Mix. A tablespoonful, every quarter of an hour, in uterine hemorrhage. Dose to be increased, if requisite.

Bonjean.

## Pills of Ergotine.

R. Extract of ergot, one drachm.
Powdered liquorice root, sufficient.

Mix, and make fifty pills. Dose, six to ten a day.

Bonjean.

#### Oil of Ergot.

R. Powdered ergot, at will.
Ether, sufficient.
Exhaust ergot by process of displacement; evaporate result by a gentle heat.

Wright.

Dose, from twenty to fifty drops, in some appropriate vehicle, in parturition, etc. In doses of ten drops, every three hours, in diarrhœa, gastric irritability, etc.

## Hydro-Alcoholic Extract of Ergot.

R. Powdered ergot, Ether,

Ether, equal weights.

Extract the oil from the ergot by the ether in a percolator. Digest the residue with six times its weight of water, for two days, at 167° F. Decant, evaporate to one-fourth, and add alcohol as long as a precipitate

takes place. Filter the liquid and evapo- Distil as long as oil passes over, and separate to consistence of honey. Treat the residue of the ergot with its original weight of alcohol, digest for three days, express, and filter. Finally mix the aqueous and alcoholic products, and evaporate to the consistence or a thick extract. Stickel.

Dose, five to ten grains.

# ERIGERON. 1. ERIGERON CANADENSE.

### CANADA FLEABANE.

A common native plant, with numerous white flowers, found in waste places, in the Northern and Middle States.

Sex. Syst. Syngen. super. Nat. Syst. As-

Willd. Sp. Pl. iii. 1954. Torrey & Gray,

Fl. ii. 175.

The leaves and tops are used; it has a rather pleasant smell, and a bitterish, acrid, somewhat astringent taste. It is said to be diuretic, tonic, and astringent, and to be useful in dropsies and diarrhœa. Dose, in substance, thirty grains to a drachm.

## Infusion of Canada Fleabane.

R. Canada fleabane, one ounce. Boiling water, one pint. Infuse. Dose, two to four fl. ounces.

Dupuy.

## Fluid Extract of Canada Erigeron.

R. Canada erigeron, in powder,

No. 40, sixteen troyounces. Alcohol, sufficient.

Moisten powder with five fl. ounces, and after packing firmly in a percolator, add eleven fl. ounces of alcohol, macerate for four days, displace twenty-four fl. ounces, reserving the first fourteen, evaporate the remainder to two fl. ounces, and mix with reserved portion. U. S. Ph.

Dose, a teaspoonful.

#### Extract of Canada Fleabane.

R. Canada fleabane, one pound. Water, one gallon. Boil down to four pints, filter, and evaporate to proper consistence. Dose, five to ten grains.

#### Oil of Erigeron.

R. Fresh Canada erigeron, at will. Water, sufficient. Fl. 1, 604.

rate it from the water.

Dose, four to ten drops, in uterine hemor-

## Mixture of Oil of Erigeron.

R. Oil of erigeron, a fl. drachm. Sugar, two drachms. Gum Arabic, one drachm. Water, sufficient for three fl. ounces.

Make an emulsion. Dose, a teaspoonful three times a day. E. Wilson.

## 2. ERIGERON HETERO-PHYLLUM.

### FLEABANE ...

This species, which has also been called E. annuum, is very closely allied to, and identical in properties with E. Philadelphicum. Both are common plants in the United States, and are now officinal under the name of Erigeron.

Persoon, Synop. ii. 431. Griffith, Med.

Bot. 394.

The leaves and tops of the plants are used. They have a peculiar, but not unpleasant odor, when bruised, and an astringent, bitterish taste, and are employed as a diuretic, especially in dysuria of children.

## Infusion of Fleabane.

R. Fleabane, one ounce. Boiling water, one pint. Infuse. Dose, two to four fl. ounces, every three or four hours. Dewees.

#### ERYNGIUM.

## 1. ERYNGIUM MARITIMUM.

## SEA HOLLY.

This plant is a native of Europe, growing on sandy beaches.

Sex. Syst. Pentand. digyn. Nat. Syst. Apia-

Linn. Sp. Pl. 337. Griffith, Med. Bot. 315. It is thought to be diuretic, and was also esteemed aphrodisiac. The part used is the root, which has a sweet, agreeable taste, and an aromatic odor.

# 2. ERYNGIUM AQUATICUM.

#### BUTTON SNAKEROOT.

A native species, growing in wet places, from Virginia to Florida. Linn. Sp. Pl. ed. 2, p. 336. Torrey & Gray,

The root is bitter, aromatic, and pungent. It is diaphoretic and expectorant, and is useful in the same cases to which senega is appropriate. Used to some extent in South Carolina.

### EUCALYPTUS.

This is an interesting genus of Australian trees, of the natural order Myrtaceæ. Many yield volatile oils, astringent extracts, or resins, and will probably be employed medicinally in the future. At present two species have attracted attention, one, E. resinifera, yielding the so-called Botany Bay kino.

## EUCALYPTUS GLOBULUS.

BLUE GUM TREE .- FEVER TREE.

Indigenous to Victoria and Tasmania, and cultivated in America and Southern Europe as an ornamental and shade tree. The leaves and the volatile oil obtained from them, have been used; the former are thick, leathery, several inches in length, of an agreeable odor, and an aromatic styptic taste. The volatile oil resembles oil of cajeput.

Dose of the leaves, one to four drachms;

of the oil, one or two drops.

## Infusion of Eucalyptus.

R. Eucalyptus leaves, cut, two drachms.

Boiling water, four ounces.

Infuse and strain. Take morning and evening.

Chernovis.

Tincture of Eucalyptus.

R. Eucalyptus leaves, cut, one part.
Alcohol, 80 per ct., five parts.
Digest for five days, and filter. Dose, a tea- to a dessertspoonful.

Dorvault.

## Syrup of Eucalyptus.

R. Distilled water of
eucalyptus, fifty parts.
Sugar, ninety-five parts.
Dissolve. As an agreeable vehicle and corrective.

Discolve. Discolve.

Extract of Eucalyptus.

R. Eucalyptus leaves, cut, at will. Distil the volatile oil with water; exhaust the residue in the still with water, prepare an extract, exhaust this with alcohol, evaporate to the consistence of an extract, and while cooling, stir in the volatile oil.

Dose, two to eight grains.

### EUONYMUS.

#### SPINDLE TREE.

Two indigenous species have been used in medicine, E. Americanus, or strawberry tree, and E. atropurpureus, or wahoo. The latter is a tall shrub with elliptic ovate leaves, dark purple flowers, and copious crimson fruit, drooping on long peduncles.

Sex. Syst. Tetrand. monogyn. Nat. Syst.

Celastraceæ.

The bark is the officinal part; it is of a grayish color, with black streaks externally, is without odor, and has a bitter taste, which is due to a neutral principle called euonymin. It acts as a cathartic, and is regarded to possess alterative properties. Dose, a scruple to a drachm, given in the form of infusion.

## EUPATORIUM.

## BONESET.

This, the *E. perfoliatum*, is a native plant, found in abundance in most parts of the United States, in moist situations. Several other native species are almost identical in their properties, as *E. teucrifolium*, *E. aromaticum*, etc.

Sex. Syst. Syngen. æqual. Nat. Syst. As-

teraceæ

The parts used are the leaves and tops. These have a faint odor, and a peculiar, bitter taste. It is tonic and diaphoretic, and, in large doses, emetic and laxative. Dose, in substance, as a tonic, twenty to thirty grains.

#### Infusion of Boneset.

R. Boneset, one ounce.
Boiling water, one pint.
Infuse for two hours, in a covered vessel, and strain.

As a diaphoretic, to be taken freely, warm; as a tonic, a fl. ounce, cold.

### Decoction of Boneset.

R. Boneset, one ounce.
Water, one pint and a half.
Boil down to a pint.

Dose, a wineglassful, or more, as an

emetic and cathartic.

## Compound Infusion of Boneset.

R. Boneset,
Sage, each,
Cascarilla,
Boiling water, one pint and a half.
Infuse till cold, and strain. A wineglassful every three or four hours. In hectic fever.

Ellis.

## EUPHORBIA.

SPURGE.

## 1. EUPHORBIA COROLLATA.

## BOWMAN'S ROOT.

A native plant, with numerous white flowers, found in many parts of the United States, in dry, sandy soils.

Sex. Syst. Dodecand. trigyn. Nat. Syst.

Euphorbiaceæ.

Linn. Sp. Pl. 258. Griffith, Med. Bot. 592. The root, which is the part used, is large, white internally, inodorous, and almost tasteless. It is a safe and certain emetic, in doses of fifteen or twenty grains, and diaphoretic in that of three or four grains.

## 2. EUPHORBIA IPECAC-UANHA.

## WILD IPECACUANHA.

This is also a native plant, with numerous procumbent stems, and variously-shaped

Linn. Sp. Pl. 653. Griffith, Med. Bot. 592. The root, the part used, is large, white, almost inodorous, and has a somewhat sweet taste. It is an energetic emetic, but, like the last species, apt to act on the bowels. Dose, ten to fifteen grains.

### Compound Powder of Wild Ipecacuanha.

R. Powdered wild ipecacuanha, opium, each, six grains. Sulphate of potassium, forty-eight grains.

Triturate well, and divide into six powders. As a substitute for Dover's powder, to which it is equal, if not superior.

W. P. C. Barton.

## 3. EUPHORBIA HYPERICI-FOLIA.

#### BLACK PURSLANE.

A small, procumbent, native plant, with

leaves often marked with a purple spot. Linn. Sp. Pl. 652. Griffith, Med. Bot. 593. The whole plant is used, and is said to be astringent and narcotic. It is inodorous, but has a sweetish, somewhat austere taste. It has been recommended in diarrhœa, fluor albus, etc.

## Infusion of Black Purslane.

R. Dried black purslane, half an ounce. Boiling water, one pint.

Infuse for half an hour, and strain. Dosc, in dysentery and diarrhœa, a tablespoonful every hour, till the morbid symptoms yield, then less frequently; in menorrhagia and leucorrhœa, a wineglassful, three times a Zollickoffer.

## 4. EUPHORBIA LATHYRIS.

## MOLE PLANT.

A tall species, native of Europe, but often

cultivated in this country.

Linn. Sp. Pl. 655. Lindley, Flor. Med. 194. The seeds, which are the officinal portion, yield to ether, a purgative oil, which is tasteless, and almost inodorous. It acts on the bowels, in doses of from four to twelve drops, but is apt to cause nausea and vomiting.

## Mixture of Oil of Euphorbia.

R. Oil of euphorbia, eight drops. Powdered gum Arabic, one drachm.

two ounces. Sugar, Distilled water, three fl. ounces.

Mix. As a purgative draught.

Pichonnier.

## EUPHORBIUM.

## EUPHORBIUM

Is the concrete gum-resinous exudation of Euphorbia resinifera, and perhaps obtained from several succulent species, principally natives of Africa. It is in the form of tears, or small, irregular masses, of a yellowish or reddish color. The taste is at first slight, but soon becomes acrid and burning; the odor is very faint. It is a violent emetic and purgative, and is not used internally; as an external application it is em-ployed in Europe, and also as a sternutatory.

## Sternutatory of Euphorbium.

R. Powdered euphorbium, one drachm.

white hellebore,

four scruples.

Mix. Very violent in its action.

Pierquin.

#### Tincture of Euphorbium.

R. Euphorbium, bruised, one part. five parts. Alcohol, Digest for eight days. As a rubefacient. Ph. Germ.

## Oil of Euphorbium.

R. Euphorbium, one part. Olive oil, ten parts.

Digest for ten days, and filter. As a friction in paralysis. Van Mons.

## Plaster of Euphorbium.

R. Burgundy pitch, sixteen parts. Turpentine, three parts.

Melt together, and add

Powdered euphorbium, four parts. Stir till cold. Stimulating and rubefacient.

aration formerly known as capuchin oint-Hager.

## EUPHRASIA.

### EYEBRIGHT.

The Euphrasia officinalis is a small, annual plant, a native of Europe and the northern parts of Asia and America.

Sex. Syst. Didynam. gymnos. Nat. Syst.

Scrophulariaceæ.

Linn. Sp. Pl. 841. Lindley, Flor. Med. 506. The whole plant is used. It is slightly bitter and aromatic, and, at one time, was much used in diseases of the eyes. Dr. Kranichfeld says it is peculiarly beneficial in catarrhal ophthalmia, and also in cough This is a simplified formula for the prep- and other catarrhal affections.

# F.

Brit. Ph.

# FEL BOVINUM. OX GALL.—OX BILE.

A greenish-yellow viscous liquid, obtained from the gall-bladder of the ox. It has a peculiar odor, and a disagreeable bitter

## Fel Bovinum Purificatum.

R. Fresh ox bile, one pint. Alcohol, two pints. Mix well, and, after twelve hours, decant the clear solution and evaporate it by a water-bath, to a pilular consistence. Dose,

Ph. Germ. treats the alcoholic solution with animal charcoal, and evaporates to

dryness.

five to ten grains.

Used in some forms of dyspepsia, functional diseases of the liver, etc.; usually combined with other medicines.

## FERMENTUM CEREVISIÆ. BEER YEAST.

It is a viscid, thick, frothy liquid, exhibiting under the microscope numerous round or oval confervoid cells. It is stimulant and antiseptic, in doses of one to two tablespoonfuls, but is chiefly used externally.

#### Mixture of Yeast.

R. Beer yeast, ten fl. ounces. Camphor, thirty grains. Spirit of nitrous ether,

Mix. Dose, a fluidounce every hour or two. Recommended in typhus and typhoid fevers. Lamprey.

#### Yeast Poultice.

R. Beer yeast, six fl. ounces. fourteen ounces. Wheaten flour, Water at 100°, six fl. ounces. Mix the yeast and the water, stir in the flour, and place the mass near the fire till it rises. Used in fetid and gangrenous ulcers.

## FERRUM. IRON.

A solid, hard, malleable, ductile metal, of a silvery-white color and fibrous texture, attracted by the magnet, of a slight styptic taste, and a faint but peculiar odor when rubbed. Oxidizable in the air, and when heated to whiteness, burning with great brilliancy. It is employed medicinally in a great number of forms, in the metallic state, as oxides and salts. All these are powerfully tonic and astringent.

## FERRI FILUM. IRON WIRE.

## FERRI RAMENTA.

IRON FILINGS.

These should always be perfectly pure, when used internally, and in a state of mihalf a fl. ounce. nute division.

## Ferri Pulvis. Prepared Metallic Iron.

R. Iron filings, at will.

Pound in an iron mortar, with great force, sift through a fine sieve, and porphyrize until all metallic brilliancy has disappeared, and again sift. Keep in a perfectly dry place.

Paris Codex.

Dose, from five to twenty grains.

The following is preferable for medicinal use, it being much purer.

#### Reduced Iron.

R. Place pure precipitated carbonate of iron on a tray of sheet-iron, in a tube of wrought iron; pass a stream of pure hydrogen through it, heat to a dull red, and maintain this for some hours, as long as the escaping hydrogen is accompanied by water. Then remove from the fire and keep up a small current of gas till cool. Should any portion of the product be black instead of iron-gray, separate it for use in a subsequent operation; reduce the gray portion to powder.

U. S. Ph.

Dose, two to five grains every three hours.

#### Powder of Metallic Iron.

R. Prepared metallic iron, ten grains.
Sugar, one drachm.
Mix. To be given four times a day, in chlorosis and amenorrhea.

Brera.

#### Compound Powder of Metallic Iron.

R. Prepared metallic iron,
Powdered guaiacum,
each, half a drachm.
Prepared oyster shell, half an
ounce.
Sugar, three drachms.
Mix. Divide into ten powders; one, twice
a day, in scrofula. Gælis.

B. Prepared metallic iron,
Powdered cinnamon,
each, half a drachm.
Sugar, three drachms.
Mix, and divide into twelve powders. One
every three hours as a tonic. Guibourt.

R. Prepared metallic iron, one grain.
Carbonate of magnesium, five
grains.
Powdered cinnamon, two grains.
" sugar, one scruple.
Mix. One-half in the morning, the other in the evening, in rachitis.
"Hufeland.

B. Prepared metallic iron, Powdered anise, Castor, Powdered cinnamon, nutmeg, each, one drachm.

Mix, and divide into twenty-four powders. One, morning and evening, in chlorosis.

St. Marie.

## Bolus of Prepared Iron.

R. Prepared metallic iron,
Powdered myrrh, each, ten grains.
Aromatic powder, two grains.
Powder of rosemary, half a
drachm.
Syrup of orange-peel, sufficient.
Make a bolus. To be taken morning and
evening, in amenorrhœa.

Augustin.

## Pills of Prepared Iron.

R. Prepared metallic iron, two ounces.

Extract of wormwood, sufficient.

Mix, and make six-grain pills. Three or four, morning and evening, in chlorosis, dyspepsia, etc.

Soubeiran.

R. Prepared metallic iron, one drachm.

Powdered black hellebore, one scruple.

Extract of gentian, two drachms.

Syrup of saffron, sufficient.

Mix, and form sixty pills. Two, three times a day, as an emmenagogue.

St. Marie.

R. Prepared metallic iron, half an ounce.

Powdered colombo, four scruples.

"rhubarb,
"cinnamon,
each, two scruples.
Extract of quassia, sufficient.

Extract of quassia, sufficient.

Mix, and form pills of three grains each.

Three to four a day, as a tonic in debility.

Jahn.

Lozenges of Reduced Iron.

R. Reduced iron, seven hundred and twenty grains.

Powdered sugar, twenty-five ounces.

" gum acacia, one ounce. Mucilage of gum acacia, two fl. ounces.

Mix the powders, add the mucilage, and with water form a mass, which divide into 720 lozenges. Dose, one to six. Brit. Ph.

## Wine of Iron.

R. Iron wire (about No. 35), one ounce.

Sherry wine, twenty fl. ounces.

Macerate for thirty days in a closed vessel, the iron being not quite wholly immersed, the vessel frequently shaken, and the stopper removed; then filter. Dose, one to four fl. drachms.

Brit. Ph.

## Aromatic Mixture of Iron.

R. Pale cinchona, in powder, one ounce.

Calumba, in coarse
powder, half an ounce.
Cloves, bruised, a quarter of an ounce.

Fine iron wire, half an ounce. Compound tincture of

cardamom, three fl. ounces. Tincture of orange-peel, half a fl. ounce.

Peppermint water, sufficient.

Macerate the solid substances with twelve fl. ounces of peppermint water for three days, agitating occasionally; then filter, adding as much peppermint water to the filter, to obtain twelve fl. ounces, and mix with the tinctures. Dose, one to two fl. ounces.

Brit. Ph.

# FERRI ACETAS.

ACETATE OF IRON.

## R. Hydrated oxide of iron,

Recently precipitated by ammonia and well washed with cold water, is digested with sufficient acetic acid for six hours at a temperature below 140°, then set aside for twelve hours, and the clear liquid decanted (not filtered) and evaporated between 140° and 188°.

Swiss Ph.

It has a brown-red color, is freely soluble in water and alcohol, and contains about half its weight of oxide of iron.

### Solution of Acetate of Iron.

R. Solution of tersulphate

of iron, ten parts.

Distilled water, thirty parts.

Mix, and precipitate with an excess of ammonia water previously diluted with twenty times its weight of distilled water. Wash the precipitate well, and express it in a strainer until it weighs five parts. Mix this in a bottle with

Acetic acid, sp. gr. 1.040, six parts. Agitate occasionally in a cool place during two days, and filter.

The solution should weigh ten parts, has a specific gravity of 1.134 to 1.138, and contains 8 per cent. of iron. Ph. Germ.

## Tincture of Acetate of Iron.

R. Acetate of potassium, two ounces. Solution of persulphate of

iron, two and a half fl. ounces. Rectified spirit, sufficient.

Dissolve the acetate in ten fl. ounces, and the iron solution in eight fl. ounces of alcohol. Mix and agitate repeatedly during an hour. Then filter and pass sufficient alcohol through the precipitate upon the filter to make the tincture measure one pint imperial. Dose, five to thirty minims.

Brit. Ph.

R. Liquid acetate of iron, one part.
Alcohol, 56 pr. et., seven parts.
Digest for two days, and filter. Dose, ten
to fifty drops.

Guibourt.

## Ethereal Tincture of Acetate of Iron.

R. Liquid acetate of iron, nine parts.

Acetic ether, one part.

Alcohol, two parts.

Mix. Dose, twenty to thirty drops.

Ph. Germ.

## Acetate of Iron and Aluminum.

R. Sulphate of iron, two parts.

Alum, one part.

Boiling water, ten parts.

Filter the solution, and gradually add solution of acetate of lead till precipitation ceases; let rest, and filter; evaporate to consistence of a jelly. As a marking ink; it resists alkalies, but not acids. Guibourt.

## FERRUM AMMONIATUM.

AMMONIATED IRON.

R. Chloride of ammonium, sixteen parts.

Distilled water, thirty-two parts. Liquid perchloride of iron, three parts.

Dissolve, mix, evaporate to dryness, and powder.

Said to be useful in amenorrhœa, scrofula, epilepsy, etc. Dose, four to twelve grains, several times a day.

# Compound Powder of Ammoniated Iron.

R. Ammoniated iron,
Ammoniac,
Powdered seneka,
iliquorice,
Mix, and divide into twelve powders.
Wix, and divide into twelve powders.
Wix, and divide into twelve powders.
Foy.

### Bolus of Ammoniated Iron.

R. Ammoniated iron, five grains.
Aromatic powder, twelve grains.
Mucilage, sufficient.
Mix, and make bolus. One to be taken twice a day, in chlorosis and scrofula.

Ainslie.

## Pills of Ammoniated Iron.

R. Ammoniated iron,
Galbanum, each, one drachm.
Assafetida, two drachms.
Castor, one scruple.
Tincture of valerian, sufficient.
Beat into mass, and form pills of three grains. Two, morning and evening, in atonic nervous disorders.

Radius.

R. Ammoniated iron,
Aromatic powder,
Ext. of Peruvian bark,
Alum,
Oil of cinnamon, twelve drops.

Beat into mass, and form pills of two grains. Five to ten, morning and evening, in asthenic menorrhagia.

Forney.

#### Mixture of Ammoniated Iron.

R. Powdered galanga,
"rhubarb, each, half a
drachm.
Boiling water, sufficient
to obtain three ounces of strained solution;
add

Ammoniated iron, six grains.
Peppermint sugar, four drachms.
Mix. A dessertspoonful, every three hours, in indigestion and chronic diarrhæa of children.

Wendt.

## FERRI ARSENIAS.

ARSENIATE OF IRON.

R. Sulphate of iron, nine ounces.

Arseniate of sodium, dried at 300°, four ounces.

Acetate of sodium, three ounces.

Dissolve the two sodium salts in two pints, and the iron salt in three pints of water; mix the solutions, wash the precipitate well, squeeze out the water, and dry it at 100°.

A greenish, tasteless powder, soluble in the stronger acids. Dose, one-sixteenth to half a grain.

#### Pills of Arseniate of Iron.

R. Arseniate of iron, three grains.
Extract of hops, two drachms.
Powdered marshmallow, thirty
grains.
Syrup, sufficient.
Mix, and make into forty-eight pills. Dose,
one or two daily, in scrofulous, herpetic,
and cancerous affections.

Biett.

## Ointment of Arseniate of Iron.

R. Arseniate of iron, half a drachm.
Phosphate of iron, two drachms.
Spermaceti cerate, six drachms.
Triturate together. As an application to cancerous ulcers. To be used with great caution.

Carmichael.

## FERRI BROMIDUM.

#### BROMIDE OF IRON.

R. Bromine, one part.
Distilled water, twenty parts.
Iron filings, sufficient.
Digest together; when the solution becomes greenish, filter, and evaporate to dryness.

Magendie.
Dose, one to three grains in pills.

## Syrup of Bromide of Iron.

R. Bromine, nine drachms.
Iron (card teeth), four drachms and a half.
Sugar, ten troyounces.
Water, sufficient.
Mix the iron and bromine with five fluidounces of water, digest; when the color has changed to green, filter into a bottle containing the sugar, and wash the filter with water to make with the sugar one pint of

syrup. Dose, ten to twenty minims.

W. S. Thompson.

## Pills of Bromide of Iron.

R. Bromide of iron. twelve grains. Conserve of roses, eighteen grains. Gum Arabic, twelve grains. Mix, and form twenty pills. Two, in the morning and evening, as a tonic and altera-Magendie.

R. Bromide of iron, one drachm. Extract of liquorice, sufficient. Mix, and make sixty pills. One or two, in the morning and evening, in scrofula, etc.

#### Ointment of Bromide of Iron.

R. Bromide of iron, one drachm. Bromine, twelve grains. Lard, one ounce. Mix. In frictions on the inside of the thighs, in amenorrhœa. Cadet.

R. Bromide of iron, one part. Glycerin, one part. Lard, fourteen parts. Mix thoroughly. As an application to scrofulous swellings. Draper.

## FERRI CARBONAS.

#### CARBONATE OF IRON.

From the avidity with which protocar-bonate of iron absorbs oxygen from the air and loses its carbonic acid, it is a very unstable preparation; and therefore what is usually prescribed under this name is merely a subcarbonate, or sesquioxide. By com-bination with saccharine matter, it, however, is protected from the oxidizing process, to a very great extent.

## Saccharated Carbonate of Iron.

R. Sulphate of iron, five parts. Bicarbonate of sodium, four parts. Powdered sugar, eight parts. Water, sufficient. Dissolve the iron salt in twenty, and the

sodium salt in fifty parts of water, add the former solution slowly to the latter contained in a bottle, wash the precipitate by decantation, squeeze out the water, mix with the sugar, and dry it in a porcelain capsule upon a water-bath. Ph. Germ.

Brit. Ph. precipiates two ounces of sulphate of iron, with one and a quarter ounce of carbonate of ammonium, and mixes the precipitate with one ounce of sugar. It contains over forty per cent. carbonate of iron, and is twice the strength of the former.

Dose, from five to twenty grains.

## Effervescent Ferruginous Powder.

R. Bicarbonate of sodium, sixty parts. Sulphate of iron, three parts. Tartaric acid, eighty parts. two hundred and sixty Sugar,

Mix together, the tartaric acid being in rather coarse powder. Paris Codex. Twenty grammes yield with one litre of water a suitable effervescing solution.

## Pills of Carbonate of Iron. (Vallet's Mass.)

R. Sulphate of iron, eight troyounces. Carbonate of sodium, nine troyounces. Clarified honey, three troyounces. Sugar, two troyounces. Syrup, sufficient. Boiling water, two pints. Dissolve the sulphate and carbonate, each in a pint of water, adding to each solution one fl. ounce of syrup; mix the two solutions in a bottle just large enough to hold the mixture, close accurately with a stopper, and set by to let the carbonate of iron subside; decant, wash precipitate with water sweetened with syrup, in the proportion of a fl. ounce to the pint, until the washings cease to be saline; express, in flannel, as much of the water as possible, and mix with the honey. Heat over a water-bath, to proper consistence. This is known as

R. Saccharated carbonate of iron, one ounce. Confection of roses, a quarter ounce. Beat together. Brit. Ph.

Vallet's carbonate of iron. Dose, from ten

to thirty grains, in the course of the day,

where iron is indicated.

#### Subcarbonate of Iron.

R. Sulphate of iron, eight troyounces. Carbonate of sodium, troyounces. eight pints. Boiling water, Dissolve the sulphate and carbonate, each in four pints of the water, mix the solutions, stir, set by for powder to subside, decant, wash the precipitate with hot water, wrap in bibulous paper, and dry with gentle heat.

Dose, five to thirty grains, or even more,

several times a day.

### Powder of Subcarbonate of Iron.

R. Subcarbonate of iron, one drachm. Divide into six powders. One every six hours, in syrup. In chorea, neuralgia, etc.

## Mixture of Subcarbonate of Iron.

R. Powdered myrrh, one drachm. Sulphate of iron, one scruple. Carbonate of potassium,

drachm. two drachms. Sugar, Water, six fl. ounces.

Mix. Dose, a teaspoonful, according to circumstances. Ellis.

## Compound Iron Mixture.

R. Myrrh,

Sugar, each, one drachm.

Carbonate of

potassium, twenty-five grains.

Rose-water,

seven fl. ounces and a half. Powdered sulphate of iron,

one scruple.

Spirit of lavender, half a fl. ounce.

Rub the myrrh, sugar, and carbonate with the rose-water, gradually added, then with the spirit of lavender, and lastly, with the iron; pour immediately into a well-stopped bottle, and keep closed.

These are well known under the name of Griffith's anti-hectic mixture. A modified formula by Bond directs to flavor with oils of partridgeberry and of nutmeg instead of rose-water and lavender. Brit. Ph. directs rose-water and spirit of nutmeg as flavors. Dose, one or two fl. ounces, two or three times a day, in chlorosis, debility of the gastric organs, etc.

## Artificial Chalybeate Water.

R. Water, fifty pints. Carbonate of calcium,

five drachms.

magnesium,

ten drachms. Black oxide of iron, two drachms.

Sulphate of magnesium,

six drachms. Common salt, one drachm.

Mix, and condense a thousand cubic inches of carbonic acid in the solution.

Swediaur.

## Lozenges of Subcarbonate of Iron.

R. Subcarbonate of iron,

five troyounces. thirty grains.

Vanilla, Powdered sugar,

fifteen troyounces.

Mucilage of tragacanth, sufficient. Rub the vanilla with a part of the sugar

into a uniform powder, mix with the other powders, and with the mucilage form a mass to be divided into four hundred and eighty troches.

## Compound Pills of Subcarbonate of Iron.

R. Powdered foxglove, half a drachm. yew leaves,

Carbonate of iron,

one drachm. each, Ergot, two drachms. sufficient. Syrup,

Mix, and make two hundred and fifty pills. Two to eight a day, with an infusion of savine, in chlorosis and amenorrhœa.

Neumann.

R. Powdered myrrh, thirty-six grains. Carbonate of sodium, Sulphate of iron,

each, eighteen grains. Syrup, sufficient.

Rub the myrrh with the carbonate of sodium, then with the sulphate of iron, and beat with syrup into a mass, and divide into twenty-four pills. U. S. Ph.

Officinal in some pharmacopæias as Griffith's pills. Dose, two to six pills, three times a day.

R. Sulphate of iron, Carbonate of potassium, two drachms.

Powdered tragacanth,

thirty grains.

Syrup, five drops.

Rub the salts together, add the tragacanth and syrup, and form sixty pills. These are known as Blaud's pills. Dose, one or two, gradually increased.

R. Sulphate of iron, Myrrh, each, two scruples. Carbonate of potassium, Soap, each, half a drachm.

Beat together, and form forty pills. Dose, two, three times a day, as an emmenagogue. R. Subcarbonate of iron,
Extract of conium,
each,
one drachm.

Mix, and divide into twenty-four pills.
Two to be taken twice a day. Given in fluor albus and scrofula.

A. T. Thomson.

#### Iron Wine.

R. Carbonate of iron,
one ounce and a half.
Contused orange-peel,
"gentian,
each, half an ounce.
Port wine, two pints.
Mix, and digest at a moderate heat for three days, repeatedly agitating.
Chapman.

#### Iron Plaster.

R. Subcarbonate of iron, three troyounces.

Lead plaster,

twenty-four troyounces.

Burgundy pitch, six troyounces.

Add the subcarbonate to the other ingredients previously melted together, and stir till cold.

U. S. Ph.

As a strengthening plaster, in pains, and want of power in the muscles.

# FERRI CARBURETUM.

CARBURET OF IRON.

This article, well known as Plumbago, or Black Lead, had been highly recommended in cutaneous affections, and was recognized as officinal by many of the pharmacopæias of continental Europe, but has fallen into disuse.

## Prepared Carburet of Iron.

R. Pulverized carburet
of iron,
one pound.
Boil in water for an hour, decant, and digest in eight ounces of water, mixed with two ounces of nitric and muriatic acids; digest for twenty-four hours, decant, and wash well with water, and dry. Dose, from five to fifteen grains, two or three times a day.

Pruss. Ph. 1829.

## Pills of Carburet of Iron.

R. Powdered carburet of iron,
Extract of bittersweet,
each, one drachm.
Calomel, twelve grains.

Golden sulphuret of
antimony, six grains.
Extract of liquorice, sufficient.
Mix, and form sixty pills. Dose, five, three times a day.

Niemann.

### Mixture of Carburet of Iron.

R. Powdered carburet of iron,
Sulphur, each, one drachm.
Triturate together, and add
Barley water, one pint.
To be taken in four doses. In psora, etc.

Brera.

### Ointment of Carburet of Iron.

R. Powdered carburet of iron, half an ounce. Flowers of zinc, one drachm. Lard, one ounce. Triturate together. As an application in herpetic affections.

R. Powdered carburet of half an ounce. one drachm. one ounce.

Brera.

## FERRI CHLORIDUM.

CHLORIDE OF IRON.

Muriatic acid, eight troyounces.

Muriatic acid, eight troyounces.

Digest in a flask until effervescence has ceased, filter, add four troyounces of muriatic acid, heat to near the boiling point, and add a troyounce or sufficient nitric acid until red fumes are no longer evolved and a drop of the liquid ceases to yield a blue precipitate with ferridcyanide of potassium. Evaporate by a gentle heat until reduced to eight and three-quarter troyounces; set aside until a solid crystalline mass is formed, and

keep this in a glass-stopped bottle. U. S. Ph.

#### Chloride of Iron and Acetate of Lead.

B. Liquid chloride of iron,

four ounces.

Evaporate to one-half, and add

Acetate of lead, four ounces.

Dry, and pulverize. Four to twelve grains in hemorrhages. Cadet de Gassicourt.

#### Solution of Chloride of Iron.

R. Iron wire, three troyounces.

Muriatic acid, eleven troyounces.

Saturate the acid with the iron in a glass flask, heat to boiling, filter the liquid, rinse the flask with a little boiling distilled water and pour it upon the filter. To the filtrate, put into a four-pint capsule, add six and a

half troyounces of muriatic acid, heat nearly | Mix. Two teaspoonfuls, every hour or two. to the boiling point, add a troyounce and a half of nitric acid or sufficient until it ceases to evolve red fumes. When cool add to the liquid enough water to make it measure U. S. Ph.

Its specific gravity is 1.355. Employed as a hemostatic, but chiefly for making the The corresponding preparation tincture. of Ph. Germ. has a specific gravity of 1.48, and contains 43.5 per cent. of anhydrous sesquichloride of iron. Paris Codex oxidizes the solution of protochloride of iron with gaseous chlorine; the finished preparation has the specific gravity 1.26. Brit. Ph. operates with nitric acid; its stronger solution of perchloride of iron has the specific gravity 1.338; by diluting this with three measures of distilled water, the solution of perchloride of iron is obtained. The preparations of the last three pharmacopæias contain no excess of muriatic acid.

## Tincture of Chloride of Iron.

R. Solution of chloride of

half a pint. iron, Alcohol. a pint and a half. Mix. Dose, ten to thirty drops, gradually increased, two or three times a day.

The tincture of perchloride of iron, Brit. Ph., is made in the same proportions as the preceding, from the stronger solution of the perchloride.

## Syrup of Chloride of Iron.

R. Liquid chloride of iron, one part. sixty-seven parts. Syrup, Mix. Dose, one to four drachms.

Paris Codex.

## Chloride of Iron Mixture.

R. Saffron, half a drachm. Water, four fl. ounces. Infuse for an hour, strain, and add

Chloride of iron, half a drachm. Syrup of valerian, two ounces.

Mix. Dose, a tablespoonful several times a day, in hemorrhage or chlorosis.

Cadet de Gassicourt.

R. Mallow root, two drachms. Water, sufficient to obtain two ounces of decoction; strain, and add

Gum Arabic, two drachms. Chloride of iron, half a scruple. Syrup of mallow, six drachms.

in softening of the stomach. Radius.

R. Tincture of chloride of iron, Compound tincture

> of aloes, each, half a fl. ounce. Tincture of castor, two fl. drachms.

Mix. Ten to thirty drops, three times a day, in infusion of chamomile, as an emmenagogue. Ellis.

## Ethereal, or Bestucheff's Tincture of Chloride of Iron.

R. Solution of sesquichloride of iron, one part. Spirit of ether, fourteen parts. Mix, expose to the sunlight until the liquid becomes colorless, and afterwards in a shady place to the air until it has again assumed a yellowish color. Ph. Germ.

Much used in Europe. Dose, ten to thirty drops.

## Protochloride of Iron.

R. Muriatic acid, five hundred and twenty parts. Iron filings, one hundred and ten parts.

Digest until the acid is saturated, filter, and evaporate rapidly until a pellicle forms; add one part of muriatic acid, agitate well, so that a crystalline powder is obtained on Ph. Germ. cooling.

## Liquid Protochloride of Iron.

R. Muriatic acid, five hundred and twenty parts.

It is saturated with iron as before, to the filtrate is added one part of muriatic acid and sufficient distilled water to make the whole weight one thousand parts.

Ph. Germ. Contains ten per cent. of iron; used for ferruginous baths; must be kept in small well-stopped bottles.

#### Tincture of Protochloride of Iron.

R. Protochloride of iron, recently prepared, twenty-five parts. Alcohol, sp. gr. .892, two hundred and twenty-five parts. Muriatic acid, one part. Dissolve, mix, and keep in small wellstopped bottles. Dose, ten to thirty drops. Ph. Germ.

## FERRI CITRAS.

## CITRATE OF IRON.

R. Solution of citrate of iron, at will.

Evaporate at 140° to the consistence of a syrup, spread on plates of glass and dry.

U. S. Ph.

Garnet-red scales, less freely soluble than the citrate of iron and ammonium. Dose, five to eight grains.

### Solution of Citrate of Iron.

R. Citric acid, in coarse powder,
five troyounces and six drachms.
Solution of tersulphate
of iron,
Water of ammonia,
Distilled water,

a pint.
twenty fl.
ounces.
sufficient.

Dilute the iron solution and ammonia water each with two pints of water, mix, collect the precipitate on a strainer and wash with water; drain, put one-half into a porcelain capsule, on a water-bath of 140°, add the citric acid, and stir until nearly dissolved. Then add enough of the remaining precipitate to saturate the acid, filter, and evaporate below 140° to one pint. U. S. Ph.

Dose, ten to twenty minims.

#### Wine of Citrate of Iron.

R. Liquid citrate of iron, eight scruples.
Rhenish wine, sixteen ounces.
Digest for two or three days, and filter.

Béral.

## Aromatic Wine of Citrate of Iron.

R. Iron filings, one ounce.

Lemon juice, three fl. ounces.

Contused gentian, half an ounce.

"cinnamon, two drachms.

Rhenish wine, sixteen ounces.

Digest for twenty-four hours, and decant.

The dose is a drachm to half a fl. ounce, two or three times a day.

Hamburg Codex.

R. Iron filings, four ounces.
Bitter oranges, four.
Beat them together, and at the end of two days, add to the mixture

Madeira wine, ten fl. ounces.

Spirit of orange-

peel, two fl. ounces.

Digest, and then express and filter. Dose,
half a drachm to two drachms. Baiav. Ph.

Said to be one of the best compounds of
iron.

### Tincture of Citrate of Iron.

R. Liquid citrate of iron, two ounces.
 Diluted alcohol, thirteen fl. ounces.
 Spirit of citron, one fl. ounce.
 Mix. Dose, ten to fifty drops. Béral.

## Syrup of Citrate of Iron.

R. Citrate of iron, one ounce.
Syrup, five fl. ounces.
Dissolve. Dose, thirty drops to a teaspoonful.

E. Parrish.

R. Ammonio-citrate of iron,
Cinnamon water, each, one part.
Simple syrup, thirty-eight parts.
Dissolve the citrate in the water and add to the syrup.

Paris Codex.
Dose, one to four fl. drachms.

## FERRI ET AMMONII CITRAS.

### AMMONIO-CITRATE OF IRON.

R. Solution of citrate of iron, a pint. Water of ammonia, six fl. ounces. Mix, evaporate at 140° to consistence of syrup, and spread on glass to dry. U. S. Ph. It resembles the citrate of iron in appearance and properties, but is more soluble. Dose, five to ten grains.

#### Wine of Citrate of Iron.

R. Citrate of iron and ammonium,
one hundred and sixty grains.
Orange wine, one pint (imper.).
Dissolve and filter. Dose, one to four fl.
drachms.

Brit. Ph.

#### Sweet Wine of Iron.

R. Bitter orange-peel, four drachms. Calisaya bark, one troyounce. Ammonio-citrate of iron, two troyounces. four drachms. Citric acid, four pints. Sherry wine, Deodorized alcohol, Syrup of orange-peel, each, Saturated tincture of one pint. sweet orange-peel, Water, two pints. Macerate for a week and filter. Dose, a Maryland Coll. Ph. teaspoonful.

#### Wine of Beef and Iron.

R. Ammonio-citrate of iron, two hundred and fifty-six grains. Liebig's extract of beef, three hundred and eighty-four grains. Tincture of fresh
orange-peel, one fl. ounce.
Syrup, three fl. ounces.
Sherry wine, twelve fl. ounces.

Dissolve and mix. Maryland Coll. Ph.

Nutritive wine is the above, omitting the iron.

Newark Ph. Assoc.

## FERRI ET AMMONII SULPHAS.

SULPHATE OF IRON AND AMMONIUM. AMMONIO-FERRIC ALUM.

R. Solution of tersulphate of iron, two pints.
Sulphate of ammonium, four troyounces and a half.

Heat the iron solution to boiling, dissolve in it the sulphate, and crystallize. Wash the crystals rapidly with very cold water, and dry.

U. S. Ph.

R. Solution of sesquisulphate
of iron, three hundred parts.
Sulphate of ammonium, twenty-eight parts.
Distilled water, one hundred parts.

Mix, dissolve by aid of heat, and evaporate to crystallize.

Ph. Germ.

Dose, three to six grains, in leucorrhea.

## FERRIET AMMONII TARTRAS.

TARTRATE OF IRON AND AMMONIUM.

R. Tartaric acid, twelve troyounces.
Solution of tersulphate of
iron, two pints and a half.
Carbonate of ammonium,
Distilled water, each, sufficient.

Dissolve six troyounces of the tartaric acid in two pints of water and neutralize with the ammonium carbonate; then add the remainder of the acid previously dissolved in half a pint of water. Prepare from the iron solution the hydrated oxide, and add it gradually to the solution of bitartrate of ammonium until this is saturated. Filter, evaporate below 140° to a syrupy consistence, and spread upon glass to dry.

U. S. Ph.

Garnet-red scales, slowly soluble in cold water. Dose, five to ten grains.

## Solution of Ammonio-Tartrate of Iron.

R. Ammonio-tartrate of
iron, half a drachm.
Distilled water, seven fl. drachms.
Rectified spirit, one fl. drachm.

Aikin.

## FERRI ET MAGNESII CITRAS.

CITRATE OF IRON AND MAGNESIUM.

R. Hydrated oxide of iron, two parts. Citric acid (in solution), three parts.

Mix, dissolve, saturate the liquor with carbonate of magnesium, and evaporate to dryness.

This salt is soluble. The dose is from two to five grains. Van der Corput.

## Syrup of Citrate of Iron and Magnesium.

R. Citrate of iron and magnesium, eight parts.
Orange-flower water, fifteen parts.
Simple syrup, one hundred and eighty parts.
Mix. Van der Corput.

## FERRI ET POTASSII TARTRAS.

TARTRATE OF IRON AND POTASSIUM.

R. Solution of tersulphate
of iron,
Bitartrate of potassium,
Distilled water,
four pints.

From the iron solution, prepare the hydrated oxide, and add it gradually to the cream of tartar and water, previously heated to 140°, until it ceases to be dissolved. Then filter and evaporate below 140° to the consistence of syrup, and spread on glass to dry.

U. S. Ph.

Brit. Ph. directs as above, and orders the glass plates to be kept at 120°.

Dose, from ten grains to half a drachm, in solution, or with an aromatic or bitter, in bolus.

## Powder of Tartrate of Iron and Colombo.

R. Tartrate of iron and potassium, two scruples. Powdered colombo, half a drachm.

Mix, and divide into four powders. One, every three or four hours, in syrup. As a tonic.

## Effervescent Powder of Tartrate of Iron.

R. Carbonate of magnesium, two drachms.

Carbonate of potassium, half an ounce.

Tartrate of iron, two scruples.

Teaspoonful in water in divided doses, during the day; to be taken whilst effervescing.

Radius.

### Solution of Tartrate of Iron and Potassium.

R. Tartrate of iron and potassium, one ounce. Cinnamon water, one pint. Dissolve; as a lotion or fomentation for bruises. Internally, in leucorrhæa, chlorosis, etc.

Swediaur.

## Compound Wine of Tartrate of Iron.

R. Subcarbonate of iron, one ounce and a half.

Powdered gentian, " orange-peel,

each, half an ounce.

Red wine, two pints.

Macerate for three days, and give a wineglassful two or three times a day. In dys-

pepsia, etc.

R. Subcarbonate of iron, two ounces.

Powdered cinnamon, one ounce.

Rhenish wine, two pints.

Macerate for some days, and filter.

Van Mons.

### Wine of Tartrate of Iron.

R. Subcarbonate of iron, one part.
Rhenish wine, twenty-four parts.

Macerate for some days, and filter. Dose, one or two ounces.

Soubeiran.

## Syrup of Tartrate of Iron.

R. Tartrate of iron and potassium,
Cinnamon water, each, one part.
Simple syrup, thirty-eight parts.
Dissolve the tartrate in the water, and mix with the syrup. Dose, one to two fl. drachms.

Paris Codex.

## Compound Tincture of Tartrate of Iron.

R. Tartrate of iron wine,
Tincture of calamus,
Hoffmann's balsamic
elixir,

each,
four
fluidrachms.

Mix. Dose, seventy drops, morning and evening, in wine. Said to be an excellent remedy in ascarides.

**Dorfmueller.**

## FERRI ET QUINIÆ CITRAS.

CITRATE OF IRON AND QUINIA.

R. Solution of citrate of iron, ten fl. ounces. Sulphate of quinia, a troyounce.

Dissolve the quinia in six fl. ounces of distilled water, with the aid of diluted sulphuric acid, and cautiously add ammonia water with constant stirring until in slight excess. Wash the precipitate on a filter and dissolve it in the iron solution, maintaining it at 120°. Then evaporate at 140° to the consistence of syrup, spread on glass, and dry.

U.S. Ph.

Reddish-brown or yellowish-brown scales,

which are slowly soluble in water.

Brit. Ph. directs to prepare hydrated oxide of iron from four and a half fl. ounces of solution of persulphate of iron (made from three ounces of sulphate of iron), and the quinia from one ounce of sulphate of quinia. Three ounces of citric acid are dissolved in five ounces of water, and in this solution the hydrated oxide of iron is dissolved, afterwards the quinia. After the solution has cooled, twelve fluidrachms of ammonia water are added in small quantities, with the precaution to dissolve the quinia, which separates, by stirring, before the next addition of ammonia is made. The solution is then filtered, evaporated, and dried as above.

Greenish golden-yellow scales, somewhat deliquescent and entirely soluble in cold water. Fifty grains yield with ammonia a white precipitate weighing, after drying, eight grains.

Dose, five to ten grains. The preparation of *Brit. Ph.* may be given in solution; that of *U.S. Ph.* is best exhibited in the form of powder and pills.

# Wine of Citrate of Iron and Quinia. (Bitter Wine of Iron.)

R. Citrate of iron and quinia,
two hundred and fifty-six grs.
Sugar, four troyounces.
Distilled water, one fl. ounce.
Sherry wine, eleven fl. ounces.
Tincture of fresh orangepeel, two fl. ounces.

Dissolve, mix, and filter. Dose, one to four | Mix, and divide into twelve powders. One fluidrachms. Maryland Coll. Ph.

## FERRI ET STRYCHNIÆ CITRAS.

CITRATE OF IRON AND STRYCHNIA.

R. Citrate of iron and ammonium, five hundred grains.

Strychnia, Citric acid, each, five grains. Distilled water, nine fl. drachms.

Dissolve the iron salt in a fluidounce, and the strychnia and citric acid in a fluidrachm of water. Mix the solutions, evaporate at 140° to the consistence of syrup, and spread on glass to dry. U. S. Ph.

Garnet-red scales, soluble in cold water. Dose, two to six grains

## FERRI FERROCYANIDUM.

PURE PRUSSIAN BLUE.

R. Ferrocyanide of potasnine troyounces. Solution of tersulphate

of iron, a pint. Water, three pints.

Dissolve the ferrocyanide in two pints of the water, and add the solution by degrees to the solution of tersulphate, previously diluted with a pint of water, stirring each time. Filter, wash the precipitate with boiling water, until the washings are taste-U. S. Ph. less. Dry, and powder.

Tonic, febrifuge, and alterative. Dose, three to five grains, several times a day, gradually increased till some effect is produced.

#### Powder of Prussian Blue.

R. Prussian blue, twelve grains. one drachm. Sugar, Mix, and divide into twelve powders. One, every two hours. In epilepsy. Radius.

#### Compound Powder of Prussian Blue.

R. Prussian blue, twelve grains. White pepper, Mustard, each, half an ounce. Mix, and divide into twelve powders. One, every quarter of an hour, in the apyrexia of intermittents.

R. Prussian blue, Powdered guaiacum, half to one drachm. and add each,

three times a day, in intermittents. Ellis.

#### Pills of Prussian Blue.

R. Prussian blue, eighteen to thirty-six grains. Ammoniac, ) each, Extract of dandelion, - one Rhubarb, drachm.

Mix, and make fifty-four pills. Four to six, twice a day. In diseases of the ganglionic system.

#### Mixture of Prussian Blue.

R. Prussian blue, one ounce. Parsley water, six ounces. Cherry-laurel water, two drachms. Mix. A teaspoonful three times a day. In stone and gravel. Radius.

### Ointment of Prussian Blue.

R. Cod-liver oil, one ounce. Prussian blue, twenty-four grains. Cyanide of mercury, eight grains. Oil of cherry-laurel, four drops. Mix. As an application in strumous oph-Canon de Villards. thalmia.

#### Blue Ink.

R. Pure Prussian blue, six parts. Oxalic acid, one part. Triturate with a little water, to a perfectly smooth paste; then dilute with water to a proper consistence. A little gum may be added to prevent the fluid from spreading. Mohr.

## FERRI GALLAS.

GALLATE OF IRON.

This is not used in medicine, but, with the tannate of iron, it forms the basis of writing

#### Writing Ink.

R. Aleppo galls, bruised,

Water,

twelve pounds. six gallons.

Boil in a copper vessel for an hour, adding water, to supply loss by evaporation, and strain; boil residue with four gallons of water, for half an hour, and again boil with two gallons of water; mix decoctions,

Sulphate of iron, four pounds. Contused gum

Arabic, three pounds and a half. Agitate, permit to settle, strain through fine hair sieve, and keep in close vessels.

Lewis.

R. Powdered galls, eight pounds. Rasped logwood, four pounds. Gum Arabic, three pounds. Sulphate of iron, four pounds. copper, Sugar candy, each, one pound. Ammoniac, two ounces. Water, sixteen pints. Alcohol, half a pint.

Macerate for forty-eight hours, with a gentle heat, let rest for ten days, and decant into bottles. Not suitable for steel pens.

R. Powdered galls, fifty parts. eight hundred parts. Water, Digest for twenty-four hours, strain, and

Sulphate of iron, Gum Arabic, each, twenty-five parts.

When clear, add a solution of Chloride of ammonium,

eight parts. Gum Arabic, two parts. Boiling water, sixteen parts. Oil of lavender, one part. Said to be indelible. Guibourt.

R. Bruised galls, forty ounces. Gum Arabic, ten ounces. Sulphate of iron, nine ounces. forty-five fl. ounces. Soft water, Macerate for three weeks, often stirring. A very permanent ink. English Exchequer.

## FERRI IODIDUM.

IODIDE OF IRON.

R. Iodine, three ounces. Iron filings, one ounce and a half. Distilled water, fifteen fl. ounces.

Mix the iodine, iron, and twelve ounces of the water in a flask; heat gently for ten minutes, then boil until froth becomes white; filter rapidly through wetted calico into a polished iron dish, wash filter with remainder of the water, boil down until it will solidify on cooling, pour on a porcelain slab, and when solid break into fragments and keep in a well-stoppered bottle. Brit. Ph. strong vial until froth is white; pour the

Tonic, alterative, diuretic, and emmena-gogue. Dose, three grains, gradually in-creased to eight, or more.

The solution is partly decomposed on evaporation, and the dry salt on keeping. The following formula for preparing extemporaneously a solution of this salt of definite strength, is given by Ph. Germ.

R. Powdered iron, three parts. Distilled water, eighteen parts. Iodine, eight parts.

Digest in a flask until the solution becomes light green, filter, and wash the filter with water. Eight parts of iodine correspond to ten parts iodide of iron.

When prescribed in mixtures, a solution of the salt is prepared by this formula; for pills, the freshly prepared solution is evaporated as far as necessary.

#### Saccharated Iodide of Iron.

R. Powdered iron, three parts. Distilled water, ten parts. eight parts. Iodine, Mix, digest until the color is light green, and filter into a capsule containing

Powdered milk sugar,

forty parts.

Evaporate with constant stirring rapidly to dryness, and powder.

Greenish-white powder, containing 20 per cent. of iodide of iron. Ph. Germ. Ph. Germ.

This keeps better than without the addition of milk sugar. Dose, ten to thirty grains.

## Lozenges of Iodide of Iron.

R. Iodide of iron, thirty grains. Saffron, half a drachm. Mucilage of tragacanth, Water of cinnamon, sufficient. each,

Mix, and make two hundred and forty lozenges. Fifteen to twenty a day, gradually augmenting, in amenorrhœa and leucorrhœa. Pierquin.

#### Pill of Iodide of Iron.

R. Fine iron wire, forty grains. Iodine, eighty grains. Sugar, in powder, seventy grains. Liquorice root, one hundred and in powder,

forty grains. fifty minims. Distilled water,

Agitate the iron, iodine, and water in a

liquid upon the sugar in a mortar, triturate briskly, and incorporate the liquorice root.

Brit. Ph. Mix iodine, iron, and water in a flask, and shake occasionally until solution is green.

Introduce a pint of syrup into a graduated

Dose, three to eight grains.

## Pills of Iodide of Iron.

R. Iodine, three hundred grains.

Fine iron wire, one hundred and
twenty grains.

Sugar, in powder, No. 60, Liquorice root, in powder,

No. 60, each, one hundred and ninety-two grains.

Liquorice, in powder, No. 60, Gum Arabic, in powder, No. 60, each, forty-eight grains. Reduced iron, ninety-six grains. Water, a fluidounce and a half.

Mix the iodine, iron, and ten fl. drachms of water in a flask, and agitate until solution is light pea-green, filter into a capsule containing the reduced iron, and wash the filter with the remaining water. Evaporate solution until pellicle forms, add the remaining powders previously mixed, evaporate again to a pilular consistence, and divide into three hundred and eighty-four pills. Dissolve sixty grains of tolu in a fluidrachm of ether, shake the pills with the solution until they are uniformly coated, dry them, and keep them in a well-stopped bottle. U. S. Ph.

Dose, one to three or more.

Blancard's pills of Paris Codex are prepared in a similar manner, but contain one-fifth less of iodide of iron.

R. Iodide of iron, one drachm.
Bromide of sodium, half a drachm.
Extract of liquorice, sufficient.
Mix, and form pills of two grains. One to three, morning and evening, in scrofula, etc.

Wernick.

#### Solution of Iodide of Iron.

R. Iodide of iron, one drachm.
Distilled water, one fl. ounce.

Mix. Six to ten drops three times a day, in some cold water.

Ellis.

R. Iodide of iron, twenty-four grains.

Distilled water, one fl. ounce.

Dissolve. A teaspoonful is a dose; this contains three grains.

Ellis.

#### Syrup of Iodide of Iron.

R. Iodine,
Iron wire, cut,
Distilled water,
Syrup,
two troyounces.
three hundred
grains.
three fl. ounces.
sufficient.

Mix iodine, iron, and water in a flask, and shake occasionally until solution is green. Introduce a pint of syrup into a graduated bottle, heat it by a water-bath to 212°, and through a small funnel filter the solution into the syrup. Then shake thoroughly; when cool add sufficient syrup to make the whole measure twenty fluidounces, mix well, and keep the syrup in small vials, well stopped.

U. S. Ph.

Dose, ten to twenty minims.

R. Fine iron wire, one ounce. Iodine, two ounces. Refined sugar, twenty-eight ounces.

Distilled water, thirteen fl. ounces. Prepare a syrup by dissolving the sugar in ten ounces of the water with the aid of heat. Digest the iodine and iron in a flask with the remaining water, till the froth becomes white; filter the liquid while hot into the syrup, and mix. The product should weigh forty-three ounces, and should have the specific gravity of 1.385. Dose, half to one fl. drachm.

Brit. Ph.

This is about two-thirds the strength of the former. The syrup of *Ph. Germ.* contains four per cent. of its weight of iodine; that of *Paris Codex* only one-half per cent. of iodide of iron.

#### Wine of Iodide of Iron.

R. Sulphate of iron, eight parts.

Iodide of potas-

white wine, ten and a half parts. three hundred and twenty parts.

Pulverize the two salts, adding a few drops of wine, triturate for a few moments, add the rest of the wine, and filter. To be kept in glass-stopped bottles. Thirty-two parts contain one of the iodide. Callond.

R. Iodide of iron, half an ounce.
Claret wine, one pint.
Dissolve. A dessertspoonful, morning and evening.

Soubeiran.

#### Tincture of Iodide of Iron.

R. Iodide of iron, one drachm.
Alcohol,
Distilled water,

each, one fl. ounce.

Mix. Thirty drops to a fl. drachm, twice a day.

Foy.

R. Sulphate of iron, eight parts.

Iodide of potassium, ten and a half parts.

Alcohol (.842), one hundred and sixty parts.

Triturate the salts, separately, and then together; add alcohol, and filter. To be kept in glass-stopped bottles. Sixteen parts contain one of iodide of iron.

Callond.

#### Mixture of Iodide of Iron.

R. Iodide of iron, sixteen grains.

Compound tincture
of gentian, one fl. ounce.
Distilled water, seven fl. ounces.

Mix. Two tablespoonfuls, two or three times a day.

Ashwell.

## Injection of Iodide of Iron.

R. Iodide of iron, half an ounce.
Distilled water, one pint.
Dissolve. As an injection, or lotion, in amenorrhæa, leucorrhæa, etc. Soubeiran.

R. Iodide of iron, three grains.
Distilled water, six fl. ounces.
Dissolve. In gonorrhæa; strength to be increased if required.

Ricord.

## Syrup of Iodide and Chloride of Iron.

R. Iodine, three hundred and eighty-four grains.

Muriatic acid

(1.16), four ounces and a half. Powdered sugar, twelve ounces. Iron filings,

Distilled water, each, sufficient. Mix the acid with an ounce and a half of clean iron-filings; allow to stand; agitate occasionally; when neutralized, filter. Mix the iodine with three ounces of water in a flask, add half the weight of iron filings, agitate till all the iodine is combined, and filter. Mix the solutions, add the sugar and as much water as will make a pint.

W. Procter.

## Syrup of Iodide and Chloride of Iron Mixture.

R. Syrup of iodide and
chloride of iron, two drachms.
Syrup of orangepeel, four drachms.
Infusion of cascarilla, four fl.
ounces.

Mix. One-fourth to be taken twice a day.

Battley.

## Bath of Iodide of Iron.

R. Iodide of iron, two ounces.

Water, two hundred pints.

In leucorrhæa, amenorrhæa, chlorosis, etc.

The quantity of iodide may be increased gradually to double, for adults. Pierquin.

#### Ointment of Iodide of Iron.

R. Iodide of iron, one drachm and a half.

Lard, one ounce.

Triturate together. A piece as large as a hazelnut to be rubbed on the inside of the thigh, morning and evening, in leucorrhœa and amenorrhœa; also beneficial in glandular swellings.

Pierquin.

## FERRI LACTAS.

## LACTATE OF IRON.

R. Lactic acid, one fl. ounce.
Iron filings, half a troyounce.
Distilled water, sufficient.

Mix the acid with a pint of the water in an iron vessel, add the iron, and digest on a water-bath until action ceases, preserving the measure by the addition of water; filter while hot into a porcelain capsule, and crystallize; wash the crystals with a little alcohol, and dry. By evaporating the mother liquor in an iron vessel to one-half and filtering while hot, more crystals may be obtained.

U. S. Ph.

R. Lactate of calcium, one hundred parts.

Boiling water, five hundred parts.

Dissolve.

Pure sulphate

of iron, sixty-eight parts. Distilled water, five hundred parts.

Dissolve.

Mix the two solutions; filter, add an excess of lactic acid, heat in a water-bath, stirring constantly; filter, to separate the sulphate of calcium; evaporate rapidly either in an iron vessel or a porcelain one, with the addition of some iron filings; filter and crystallize; wash the crystals with alcohol, and dry.

Lepage.

dry.

Used in same cases as other preparations of iron. Dose, one or two grains, frequently

repeated.

## Lozenges of Lactate of Iron.

R. Lactate of iron, one drachm.
Sugar, one ounce and a half.
Mucilage of gum Arabic, sufficient.
Mix, and make lozenges of twelve grains.

#### Pills of Lactate of Iron.

R. Lactate of iron,
Powdered mallow, equal parts.
Clarified honey, sufficient.
Make pills of two grains each. Cap.

## Syrup of Lactate of Iron.

R. Lactate of iron, one drachm.
White sugar, twelve ounces and a half.

Boiling distilled water, six fl.
ounces and a half.

Triturate the lactate with half an ounce of the sugar, dissolve quickly in the boiling water, pour the solution into a matrass, place on a sand-bath, add the rest of the sugar gradually; when dissolved, filter; and when cold, pour into well-stopped bottles.

Dose, from two to four fl. drachms. Cap.

## FERRI MALAS.

MALATE OF IRON.

## Extract of Malate of Iron.

R. Sour apples, fifty parts. Powdered iron, one part.

Reduce the apples to a pulp, express the juice, let subside, decant, and digest with the iron until action ceases. When cold, add enough water to make the weight forty-eight parts, filter, and evaporate to the consistence of an extract.

Ph. Germ.

It contains seven to eight per cent. of iron, and is much prescribed in Germany under the name of Extractum ferri pomatum. Dose, five to ten grains and more.

## Solution of Malate of Iron.

R. Malate of iron, water, one ounce. twelve fl. ounces.

Dissolve and filter. As an astringent, in doses of a fl. drachm.

Spielmann.

## Tincture of Malate of Iron.

R. Extract of malate of iron, one part.
Vinous cinnamon water, nine parts.
Dissolve and filter. Dose, half to one teaspoonful.

Ph. Germ.

#### Mixture of Malate of Iron.

R. Extract of Peruvian bark, gentian, each, one drachm. Peppermint water,
Chamomile water, each, one fl.
ounce.
Malate of iron, half a drachm.
To be taken in divided doses, in dyspepsia, etc.
Augustin.

#### Bitter Infusion of Iron.

R. Iron filings, three ounces. Bruised ginger,

" gentian, each, one ounce.

" orange-peel, half an ounce. Infuse in a pint of strong old cider for a month, frequently agitating, and filter.

Dose, half a drachm to one drachm, thrice daily, as a tonic.

## FERRI NITRAS.

NITRATE OF IRON.

R. Red oxide of iron, four drachms.

Nitric acid, six fl. drachms.

Dissolve, and add

Water, one fl. ounce.

Filter. Dose, six to twelve drops, in a convenient vehicle. In dyspepsia, and calculous complaints.

Swediaur.

#### Syrup of Protonitrate of Iron.

R. Iron wire (card teeth), two ounces. Nitric acid, sp. gr. 1.42, three fl. ounces.

Water, thirteen fl. ounces. Powdered sugar, two pounds.

Put the iron in a wide-mouthed bottle, kept cool by standing in cold water, and pour upon it three fl. ounces of water. Mix the acid with ten fl. ounces of water, and add it gradually to the iron, agitating frequently, until the acid is saturated. Filter the solution into a bottle containing the sugar, and marked to contain thirty fl. ounces, adding water enough to measure that quantity. Dissolve the sugar, strain, pour into suitable vials, and seal them.

W. Procter, Jr.

## Solution of Nitrate (Pernitrate) of Iron.

R. Iron wire, cut, two troyounces and a half.

Nitric acid, five troyounces.

Distilled water, sufficient.

Mix the iron with twelve fl. ounces of the

one one drachm. Mix the iron with twelve fl. ounces of the water, in a wide-mouthed bottle, and add to it gradually and with agitation, three troy-

ounces of the acid, previously diluted with six fl. ounces of the water, preventing the occurrence of red fumes by placing the bottle in cold water. Then agitate well until the liquid, when filtered, is of a pale green color. Filter into a capacious porcelain capsule, heat to 130° and add the remainder of the acid. When effervescence has ceased, continue the heat until no more gas escapes, and add distilled water to make the liquid measure thirty-six fl. ounces. The specific gravity is between 1.060 and 1.070, and a fl. ounce yields eight to ten grains anhydrous oxide of iron. U. S. Ph.

## R. Fine iron wire, free

from rust, one ounce.

Nitric acid, four fl. ounces and a half.

Distilled water, sufficient.

Dilute the acid with sixteen ounces of the water, add the iron and leave in contact until dissolved, moderating the action, if too violent, by the addition of a little distilled water; filter and add distilled water to make the liquid measure thirty fl. ounces. Its specific gravity is 1.107, and a fl. drachm yields 2.6 grains anhydrous oxide of iron.

Brit. Ph.

Dose, ten to forty minims. The result of both processes is greatly influenced by slight variations in the temperature.

## FERRI OXALAS.

OXALATE OF IRON.

R. Sulphate of iron, two troyounces.

Oxalic acid, four hundred and thirty-six grains.

Distilled water, thirty-six grains. sufficient.

Dissolve the sulphate in thirty fl. ounces, and the acid in fifteen fl. ounces of the water; filter, and mix the solutions; decant the clear liquid, wash the precipitate with water until the washings cease to redden litmus, and dry it with a gentle heat. U. S. Ph.

Tonic, with little or no astringency. Dose,

one to three grains.

## FERRI OXIDUM.

PEROXIDE (SESQUIOXIDE) OF IRON.

#### Moist Oxide (Peroxide) of Iron.

R. Solution of tersulphate
of iron,
Water of ammonia,

Water,

wenty fl.
ounces.
sufficient.

To the ammonia water, mixed with two pints of water, add, with constant stirring, the iron solution, previously mixed with two pints of water. Then pour the whole on a wet muslin strainer, and wash the precipitate with water until the washings pass nearly tasteless.

Brit. Ph. directs to preserve this moist precipitate in a stoppered bottle. U.S. Ph. orders the above quantity to be diluted with water to measure a pint and a half, and then to preserve it in the same manner.

If the above is to be made in haste as an antidote, the washing may be performed more quickly, though less perfectly, by pressing the strainer forcibly with the hands until no more liquid passes, and then mixing the precipitate with the required water.

U. S. Ph.

## R. Solution of tersulphate

of iron, sixty parts.

Calcined magnesia, seven parts.

Mix the solution with one hundred and twenty parts of water, triturate the magnesia with the same quantity of water, mix and shake well.

This is to be prepared only when needed for use, and constitutes the antidote to ar-

senic of Ph. Germ.

#### Dry Hydrated Oxide of Iron.

R. Moist peroxide of iron, at will.

Dry at a temperature not exceeding 212°.

Brit. Ph.

Ph. Germ. directs a gentle heat for drying.

Used like the subcarbonate of iron of U.S. Ph.

#### Soluble Saccharated Oxide of Iron.

R. Solution of sesquichloride of iron, Simple syrup, each, twenty parts. Solution of soda, forty parts. Distilled water, three hundred parts.

Powdered sugar, sufficient.

Mix the iron solution and syrup, add gradually the soda solution with constant stirring, and set aside for twenty-four hours. To the clear liquid add the water boiling hot, stir well, and set aside to subside. Decant the supernatant liquid, add again distilled water, collect the precipitate upon a filter, wash it with water as long as the washings pass colorless and have a strong alkaline reaction, drain and mix in a porcelain capsule with ninety parts of sugar. Dry the mixture, with constant agitation, by means of a water-bath, and add suffi-

cient sugar to make the whole weigh one hundred parts. It contains three per cent. of iron, and is entirely soluble in five parts of water.

Ph. Germ.

Dose, ten to twenty grains.

## Syrup of Oxide of Iron.

The mixture of sugar and oxide, as obtained by the preceding formula, instead of being evaporated is digested in a waterbath for two hours, adding from time to time the water which may have evaporated. When cool sufficient simple syrup is added to make the whole weigh three hundred parts. One hundred parts represent one part of iron.

Ph. Germ.

## Red Oxide of Iron. Colcothar.

R. Sulphate of iron, any quantity. Heat till water of crystallization is expelled; then roast by a powerful heat till all acid is driven off; powder, wash till all traces of acid disappear; dry.

Paris Codex.

Astringent and tonic, and has been advised in neuralgia, etc., in doses of five to fifteen grains, but is inferior to the subcarbonate and hydrated oxide; it is now mainly employed in the arts for polishing metals, etc.

## Oxide of Iron Plaster.

R. Hydrated peroxide of iron, in fine powder, one ounce. Burgundy pitch, two ounces. Lead plaster, eight ounces.

Melt the pitch and plaster, and add the iron, stirring constantly.

Brit. Ph.

As a strengthening plaster, in muscular relaxation and weakness, known in Great Britain under the name of *Chalybeate Plaster*.

R. Lead plaster,
Compound lead plaster,
Yellow wax,
Olive oil,
Melt together; triturate

Colcothar, ten parts, with four parts of olive oil, and mix the whole together, stirring constantly until cool. This is Canet's Plaster of the Paris Codex.

The Iron Plaster of the U.S. Ph. is made with subcarbonate of iron.

## FERRI OXIDUM MAG-NETICUM.

MAGNETIC OR BLACK OXIDE OF IRON.

R. Solution of persulphate of iron, five fl. ounces and a half. Sulphate of iron, two ounces. Solution of soda, four pints. Distilled water, sufficient.

Dissolve the sulphate in two pints of the water, add the solution of persulphate, and then mix with the solution of soda. Boil, set aside for two hours, stirring occasionally, transfer upon a calico filter, drain, wash thoroughly with distilled water, and dry the precipitate at or below 120°. Brit. Ph.

Dose, five to ten grains.

## R. Powdered iron filings,

any quantity.

Moisten with sufficient water, expose to the air, and replace from time to time the evaporated water. After four or five days, powder the mass, throw it upon a hair sieve, and wash with water to separate the oxide. Set the washings aside, decant the sediment from the heavier metallic iron, collect upon a filter, and dry.

Paris Codex.

These do not give identical products, but they are sufficiently alike to be used for the

same purposes.

#### Powder of Black Oxide of Iron

R. Black oxide of iron,
Aromatic powder,
Sugar,
Sug

Mix. Dose, thirty to forty grains, twice a day, in leucorrhœa and rachitis.

Swediaur.

R. Black oxide of iron,
Colombo, each, one drachm.
Rind of bitter
orange, half an ounce.
Cinnamon, one scruple.
Mix, and divide into nine powders. Three to be given a day, in chlorosis and amenorrhœa.

Brera.

#### Pills of Black Oxide of Iron.

R. Black oxide of iron, eight grains. Powdered saffron,

" valerian,

each, sixteen grains.
Syrup of wormwood, sufficient.
Mix, and form eight pills; four to eight a day, in amenorrhea.

Foy.

R. Black oxide of iron,
Powdered canella,
each,
one drachm.

Extract of ox bile, centaury,

each, three drachms.

Mix, and form pills of four grains. Four
to six a day, in engorgements of the abdominal viscera.

Pierquin.

## Electuary of Black Oxide of Iron.

R. Black oxide of iron, half an ounce. Carbonate of potassium,

two scruples.

Swediaur.

Prepared chalk,
Ginger, each, two drachms.
Syrup of orange-peel, sufficient.
Mix well. Dose, half a drachm, two or
three times a day, in chlorosis and leucor-

R. Black oxide of iron, Soap, each, one drachm. Extract of hemlock, twelve grains.

" squill, one scruple.
Oxymel, sufficient.

Mix well. Dose, half a drachm to a drachm, in dropsy, with engorgement of the abdominal viscera.

Brera.

## FERRI PERSULPHAS.

FERRIC SULPHATE.

## Solution of Tersulphate of Iron.

R. Sulphate of iron, in coarse

powder, twelve troyounces.
Sulphuric acid, two troyounces
and sixty grains.
Nitric acid, one troyounce

Water, and six drachms. sufficient.

Mix the acids with half a pint of water, heat in a capacious porcelain capsule to boiling, and add the iron salt, one-fourth at a time, stirring after each addition until effervescence ceases; continue the heat until solution is reddish-brown and free from nitrous odor; when cool, add water to make the liquid measure twenty-four fl. ounces. Its specific gravity is 1.320, and a fl. ounce yields sixty-nine grains of oxide of iron.

U. S. Ph.

Liquid ferric sulphate, *Ph. Germ.*, is nearly identical with the above; it has the specific gravity 1.317 to 1.319, and contains eighty per cent. of iron. *Solution of persulphate of iron*, *Brit. Ph.*, has the specific gravity 1.441, and one fl. drachm yields 11.44 grains of oxide; eight ounces

of sulphate of iron yield eleven fl. ounces of this solution.

The above is mostly used as the source of ferric oxide in making other preparations of iron.

## Solution of Subsulphate of Iron. (Monsel's Solution.)

R. Sulphate of iron, in coarse
powder, twelve troyounces.
Sulphuric acid, one troyounce
and thirty grains.
Nitric acid, one troyounce
and five drachms.

Distilled water, sufficient.

Proceed as in the process for the previous solution; when nitrous vapors are no longer perceptible, and the liquid is nearly cold, add distilled water to make it measure twelve fl. ounces.

U. S. Ph.

A powerful styptic, used for arresting

hemorrhages.

## FERRI PHOSPHAS.

PHOSPHATE OF IRON.

R. Sulphate of iron, five troyounces. Phosphate of sodium,

Water, six troyounces. eight pints.

Dissolve the sulphate and phosphate, each, in four pints of the water; mix the solutions, and let settle; decant, wash the precipitate with hot water, and dry with a gentle heat.

U. S. Ph.

The process of Ph. Germ, is essentially the same, except that the salts are dissolved in about half the above quantities of water.

Used with advantage in amenorrhoea, and certain cases of dyspepsia. Dose, five to ten grains.

R. Sulphate of iron, three ounces. Phosphate of sodium,

two and a half ounces.

Acetate of sodium, one ounce. Boiling distilled water, four pints.

Dissolve the iron salt in one half, and the sodium salts in the other half of the water, mix the solutions, transfer to a calico filter, wash the precipitate well with hot distilled water, and dry it at 120°. Brit. Ph.

#### Pills of Phosphate of Iron.

R. Phosphate of iron, forty grains.
Potassa (or soda), three grains.
Extract of aloes, four grains
Powdered liquorice
root, twenty grains.
Albumen of egg, sufficient.

Carmichael. every two to four hours.

## Ointment of Phosphate of Iron.

R. Phosphate of iron, two drachms. Lard, one ounce. Mix. Recommended with the former, in Carmichael. cancer.

## Syrup of Phosphate of Iron.

R. Granular sulphate of iron, hundred and twenty-four grains. Phosphate of sodium,

two hundred grains.

Acetate of sodium,

seventy-four grains.

Diluted phosphoric acid,

five fl. ounces and a half. Refined sugar, eight ounces. Distilled water, eight fl. ounces.

Dissolve the iron salt in one half, and the sodium salts in the other half of the water; mix, wash the precipitate well, press strongly between bibulous paper, and dissolve in the acid. Filter, add the sugar, and dissolve without heat; it should measure twelve fl. ounces, and contains one grain of phosphate of iron in each fl. drachm.

Brit. Ph.

### Compound Syrup of Phosphates. (Chemical Food.)

R. Sulphate of iron, ten drachms. Phosphate of sodium,

calcium, twelve drachms. each,

Glacial phosphoric acid,

twenty drachms. Carbonate of sodium, forty grains. Carbonate of potassium,

one drachm. Powdered cochineal, two drachms. thirty-two troyounces. Sugar, Orange-flower water, one fl. ounce.

Muriatic acid, Water of ammonia, each, sufficient. Water,

Dissolve the iron salt in two, and the sodium phosphate in four fl. ounces of boiling water, mix. and wash the precipitate. Dissolve the calcium salt in four fl. ounces of water with sufficient muriatic acid, precipitate by ammonia and wash well. Dissolve the two freshly precipitated phosphates in the phosphoric acid, previously dissolved in four fl. ounces of water, add the carbonates, and then sufficient muriatic acid to dissolve

Mix, and form twelve pills. Dose, one any precipitate that may occur; add water to make the solution measure twenty-two fl. ounces, dissolve in it the sugar by the aid of heat, adding towards the last the cochineal, strain, and when cool, add the orange-flower water. Dose, a teaspoonful, containing about two grains of phosphate of calcium and one grain of phosphate of E. Parrish. iron.

## FERRI PYROPHOSPHAS.

Pyrophosphate of Iron.

R. Phosphate of sodium, seven troyounces and a half. Solution of tersulphate

of iron, seven fl. ounces. Citric acid, two troyounces. Water of ammonia, five fl. ounces.

Exsiceate the phosphate, then heat it to incipient redness; afterwards dissolve in three pints of water, cool the solution to 50°, and add sufficient of the iron solution to precipitate. Drain and wash the precipitate thoroughly upon a muslin strainer, and transfer it to a weighed porcelain capsule. Saturate and dissolve the citric acid with sufficient ammonia water, add the solution to the precipitate, stir until dissolved, and evaporate to sixteen troyounces. Spread upon glass, dry, and preserve in well-stopped bottles.

It contains forty-eight per cent. of anhydrous pyrophosphate of iron.

#### Pyrophosphate of Iron and Sodium.

R. Pyrophosphate of sodium,

two hundred parts.

Solution of sesquichloride

of iron, eighty-one parts. Distilled water, six hundred

and twenty parts.

Alcohol, one thousand parts.

Dissolve the pyrophosphate in four hundred parts of hot water, and add to it gradually the iron solution previously diluted with the remainder of the water, as long as the precipitate is redissolved; filter, add the alcohol, collect the precipitate, wash it with some alcohol, press between bibulous paper, and dry with a gentle heat.

## Syrup of Pyrophosphate of Iron.

R. Pyrophosphate of iron, one part. Distilled water, two parts. Simple syrup, ninety-seven parts. Dissolve the iron salt in the water, and add to the syrup. Paris Codex.

## FERRI SULPHAS.

SULPHATE OF IRON.

R. Iron wire, in small
pieces, twelve troyounces.
Sulphuric acid, eighteen
troyounces.
Water, eight pints.

Mix the acid and water, and add the iron; heat till effervescence ceases. Pour off the solution, add half a drachm of sulphuric acid, filter, the end of the funnel touching the bottom of the receiving vessel. Evaporate in a matrass, set aside to crystallize in a covered vessel, drain crystals in a funnel, dry, and keep in well-closed bottles.

U. S. Ph.

Astringent and tonic. Dose, from one to five grains.

## Granulated Sulphate of Iron.

R. Iron wire, four ounces.
Sulphuric acid, four fl. ounces.
Distilled water, thirty fl. ounces.

Digest until effervescence nearly ceases, boil for ten minutes, filter into a jar containing eight fl. ounces of alcohol, and stir. When cool, drain the crystals and dry them on porous tiles.

Brit. Ph.

## Dried Sulphate of Iron.

R. Sulphate of iron, twelve troyounces.

Expose, in an unglazed earthen vessel, to a moderate heat until it has effloresced; raise and maintain the heat at 300° until the salt ceases to lose weight, then powder and preserve.

U. S. Ph.

Ph. Germ. restricts the heat to 212°; Brit. Ph. allows the heat finally to be raised to 400°.

Three grains are equal to five of the undried.

## Powder of Sulphate of Iron.

R. Powdered sulphate of iron, four grains. Powdered ginger, ten to sixteen grains.

Mix. To be taken twice a day, in amenorrhœa, chlorosis, etc. Saunders.

R. Powdered sulphate of iron, half an ounce. Powdered tansy, three ounces.

Mix. Dose, a drachm. As a vermifuge.

Dan. Ph.

## Pills of Sulphate of Iron.

R. Dried sulphate of iron, two parts.

Extract of dandelion, five parts.

Conserve of red roses, two parts.

Powdered liquorice

root, three parts.

Beat together, and form into five grain pills.

Ed. Ph.

R. Sulphate of iron, two drachms. Extract of wormwood, half an ounce.

Syrup of saffron, sufficient.

Beat into mass, and divide into one hundred and fifty pills. Four to five, three times a day. In chlorosis, leucorrhæa, etc.

Werthof.

R. Sulphate of iron,

Kino,
Gentian,
Extract of gentian,
Turpentine,
Powdered mallow root, sufficient.
Beat into mass, and make two hundred and seventy pills. Ten, four times a day, in secondary genorrhea.

Walch.

## Blaud's Anti-Chlorotic Pills.

R. Sulphate of iron, in fine

powder, one ounce.

Carbonate of potassium,

in dry powder, one ounce.

Mucilage of tragacanth,

Powdered liquorice root,

each, sufficient.

To make ninety-nine pills. Triturate well,

To make ninety-nine pills. Triturate well, and divide into pills. To be taken, one in the morning and evening, for the first three days, a third pill at noon for the next three days, and so increased to nine a day.

Blaud.

Paris Codex directs thirty grains each of dried sulphate of iron and carbonate of potassium to be made into one hundred and twenty pills.

#### Pills of Iron and Rhubarb.

R. Dried sulphate of iron, four parts.
Extract of rhubarb, ten parts.
Conserve of red roses, five parts.
Beat into mass, and form five grain pills.

Tonic and laxative, in dose of two or three.

## Compound Sulphate of Iron Pills.

R. Sulphate of iron, one scruple. Powdered senna, half a scruple.

Powdered jalap,

cream of tartar, each, half a scruple. twelve grains. ginger, sufficient. Syrup, Form mass, and divide into twenty-five Ellis.

These are known as Hooper's Pills, as

are also the following :-

R. Barbadoes aloes, eight ounces. Sulphate of iron, four ounces. Extract of black hellebore, each,

Myrrh, two ounces. Soap,

Powdered canella,

ginger, each, one ounce. Water, sufficient. Beat into mass, and divide into two and a half grain pills. Phil. Coll. Ph.

As a laxative and emmenagogue.

R. Dried sulphate of iron, one scruple. Powdered aloes, two scruples. cloves, five grains. sufficient. Venice turpentine, Form mass, and divide into twenty pills. One, three times a day, as an emmenagogue.

### Solution of Sulphate of Iron.

R. Sulphate of iron,

Alum, each, six ounces. Water, forty-eight ounces.

Dissolve, filter, and add

Sulphuric acid, four ounces. In hemorrhages, in doses of ten or twelve drops, in water. Spielmann.

#### Sulphate of Iron Injection.

half to one R. Sulphate of iron, drachm. Sage water, four ounces. Mucilage gum Arabic, half a drachm.

Mix. As an injection, in nasal and uterine hemorrhages. Berends.

#### Mixture of Sulphate of Iron.

R. Sulphate of iron, one scruple. Sulphuric acid, four to six drops. White sugar, one drachm. four fl. ounces. Water, Mix. A teaspoonful, with water, every two to four hours, as a tonic.

R. Sulphate of iron, four grains. Elixir of vitriol, twenty drops. Distilled water, one fl. ounce. Mix. A teaspoonful, in a wineglass of water, three times a day.

R. Powdered myrrh, one drachm. gum Arabic, two. drachms. Syrup, one fl. ounce. Infusion of chamomile, fl. ounces.

Mix well, and add

Powdered sulphate of fifteen grains. Cinnamon water, one fl. ounce.

Mix. Two spoonfuls every three hours, as Frank. an emmenagogue.

## Syrup of Sulphate of Iron.

R. Sulphate of iron, two drachms. one fl. ounce. Water,

Dissolve, filter, and add

Syrup of gum Arabic, seventeen fl. ounces.

Mix. A tablespoonful twice a day, in chlorosis, leucorrhœa, etc. Soubeiran.

## FERRI SULPHURETUM.

## SULPHURET OF IRON.

Heat an iron rod to a white heat, apply to it a roll of sulphur, receiving the sulphuret of iron in water; separate it from the sulphur, dry, and keep in a well-stopped bot-

Used to make hydrosulphuric acid, by the addition of diluted sulphuric acid.

## FERRI TANNAS.

### TANNATE OF IRON.

R. Tannic acid, ninety parts. sufficient Boiling water,

to dissolve; add gradually

Subcarbonate of iron, four hundred and forty parts.

Agitate till effervescence ceases. Evaporate at 176°, in a porcelain vessel, until it becomes thick, then dry on a plate, in a stove, at 95°. Benedetti.

Found useful in chlorosis, in doses of two or three grains, thrice a day, increasing the

Ellis. dose as required.

## FERRI VALERIANAS.

VALERIANATE OF IRON.

R. Clean iron filings, at will. Put in a wedgewood mortar, add gradually an equal weight of valerianic acid, stirring continually. In an hour, add distilled water, pour the whole into a flask, warm gently, and filter. The surface, exposed to the air, becomes covered with a crystalline layer of valerianate of iron. Collect this on a filter, repeat this as long as crystals are formed.

Dose, one to two grains.

Ruspini.

R. Solution of tersulphate

eight fl. ounces. of iron, Valerianate of sodium, troyounces.

Distilled water, sufficient. Dissolve the valerianate in half a pint of the water, and add to the iron solution. Wash the precipitate upon a filter, and dry upon U. S. Ph. It should be kept in a well-stopped bottle.

FICUS.

#### Figs.

Figs are the fruit of Ficus carica, a small tree, a native of Asia, and now cultivated in all warm climates. There are numerous varieties.

Sex. Syst. Polygam. diœc. Nat. Syst. Mo-

raceæ.

Linn. Sp. Pl. 1513. Griffith, Med. Bot. 576. They come to this country in a dry state, from the ports of the Levant. They are nutritious, laxative, and demulcent, and are used in medicine in demulcent decoctions, and sometimes externally, as a suppurative poultice.

### Decoction of Figs.

R. Figs, one ounce. Water, one pint. Boil, and strain. Demulcent and pectoral. Cadet.

## Gargle of Figs.

R. Figs, Mallow root, each, one ounce. two pints. Boil away one-fourth. As an emollient gargle in sore throat. Radius.

#### Compound Decoction of Figs.

R. Figs, Raisins, each, two ounces. Barley water, two pints. Boil for a quarter of an hour, and add

Liquorice root, half an ounce. Infuse, and strain.

This is identical with the compound decoction of barley of the Lond. Ph., and like it, is nutritive, demulcent, and laxa-

## Coffee of Figs.

R. Figs, roasted like coffee, drachms. Water, one pint. Boil gently, and strain. Radius.

This is said to be an excellent substitute for coffee, and to form an excellent diet in diseases of the chest.

Paste of Figs.

at will. R. Figs, Reduce to a pulp, express through a hairsieve, mix with four times the weight of sugar, concentrate by a gentle heat, and cut into lozenges. Soubeiran.

## FILIX MAS.

## MALE FERN.

The Male Fern is the rhizome of Nephrodium (Aspidium) filix mas, a native of the temperate regions of the whole world, in shady, rather damp situations.

Sex. Syst. Crypt. fil. Nat. Syst. Polypodiaceæ. Linn. Sp. Pl. 1551. (Polypodium.) Griffith, Med. Bot. 670.

The rhizome is covered with portions of the brown stipes, is green internally, and has a feeble, but peculiar odor, and a sweet, bitter, astringent taste. It should always be used as fresh as possible, only such part should be employed as has retained its green color; and the stipes being inert, should then be removed. It is tonic and anthelmintic, but is not much used in this country. The dose, in substance, is from one to three drachms, twice a day.

### Powder of Male Fern.

R. Male fern, one ounce. Gamboge, Calomel, each, fourteen grains. eighteen grains. Scammony, Mix, and divide into three powders. In tapeworm. Cadet.

#### Bolus of Male Fern.

R. Male fern, half an ounce. Rhubarb, two drachms. Levant wormseed, half an ounce. Calomel, one drachm. Syrup of wormwood, sufficient. Mix, and form twelve boluses. Spielmann.

#### Oleoresin of Male Fern.

R. Male fern, in powder, No. 60, twelve troyounces.

Ether, sufficient.

Obtain by slow percolation twenty-four fl. ounces of tincture; distil off the greater part of the ether, and allow the remaining ether to evaporate spontaneously; keep the oleoresin in a well-stopped bottle.

U. S. Ph.

Dose, fifteen to thirty grains twice a day. This preparation is called extract by Ph. Germ., liquid extract by Brit. Ph., and oil of male fern by Paris Codex.

#### Pills of Extract of Male Fern.

R. Oleoresin of male fern, one scruple.

Powder of male fern, twelve

Conserve of roses, sufficient.

Mix, and make twelve to sixteen pills. To be taken in the evening, at short intervals.

Peschier.

R. Oleoresin of male

fern, twenty-four drops.
Powdered mallow root, three
scruples.

Fresh lard, two scruples.

Mix, and divide into twenty-four pills. One-half to be taken in the evening, and the remainder next morning, and, an hour afterwards, a dose of castor oil. Jourdan.

#### Electuary of Male Fern.

R. Oleoresin of
male fern, half a drachm.
Honey of roses, one ounce.
Mix. Half in the evening, the remainder the next morning.

Radius.

## Jelly with Male Fern.

R. Male fern,

Corsica moss, each, six drachms. Isinglass, one drachm. Water, eight ounces.

Boil to three ounces, and strain; add

Oleoresin of
male fern, one scruple.
Syrup of mulberries, one ounce.
To be taken in divided doses, during the day.

Phæbus.

#### Mixture of Male Fern.

R. Male fern,
Elecampane,
Wormwood,
Santonica,
Water,
Wale fern,
half an ounce.
two drachms.
a handful.
one drachm.
sufficient

to obtain a quart of decoction; add

Vermifuge syrup, one ounce.

Mix. Bories.

B. Powdered male fern, four drachms.

Balm water, three ounces.

Syrup of gum, one ounce.

Mix. To be taken in the evening, and

Mix. To be taken in the evening, and next morning an ounce of castor oil.

Radius.

## FENICULUM.

#### FENNEL.

There are several varieties, or species of Fennel, closely resembling each other, and having the same properties; that recognized as officinal by the *U.S. Ph.* is the *F. dulce*, a native of Europe, and often cultivated in the gardens in this country.

Sex. Syst. Pentand. digyn. Nat. Syst. Apia-

ceæ.

Linn. Sp. Pl. 377. Griffith, Med. Bot. 321. The part used is the fruit, which is fragrant, with a sweetish, warm, pleasant, aromatic taste. It is employed as a carminative, and as corrective of other and more unpleasant remedies. The dose of the powder is from a scruple to half a drachm.

#### Compound Powder of Fennel.

R. Powdered fennel,

"anise,
"lettuce,
"white poppy,
"benne,
"sugar, six ounces.

Mix. Dose, a drachm two or three times a day. Said to increase the secretion of milk in nursing women. Niemann.

#### Infusion of Fennel.

R. Fennel, one drachm.
Boiling water, one pint.
Infuse for an hour, and strain. Given in teaspoonful doses to infants, in windy colic, or used as an enema, for the same purpose.

Taddei.

#### Fennel Water.

R. Oil of fennel, half a fl. drachm.
Carbonate of magnesium, one
drachm.
Distilled water, two pints.

Rub the oil with the carbonate, gradually add the water, constantly rubbing, and filter.

U. S. Ph.

Distilled fennel water is made by distilling, from one part of the bruised fruit and sufficient water, four parts (*Paris Codex*), ten parts (*Brit. Ph.*), fourteen parts (*U. S. Ph.*), thirty parts (*Ph. Germ.*).

#### Oil of Fennel.

R. Bruised fennel, at will.
Water, sufficient.
Mix, and distil.
Dose, five to fifteen drops.

#### Essence of Fennel'.

R. Oil of fennel, one fl. ounce.
Alcohol, nine fl. ounces.

Mix. Dose, twenty or thirty drops.

Dub. Ph.

## Fennel Ointment.

R. Oil of fennel, Lard, four ounces.

Triturate together. Said to destroy lice in Niemann.

#### FRASERA.

#### AMERICAN COLOMBO.

The Frasera Walteri is one of the tallest and most elegant of our native herbaceous plants, sometimes attaining a height of ten feet, with a pyramid of yellowish-white flowers, of three or four feet in length.

flowers, of three or four feet in length.

Sex. Syst. Tetrand. monog. Nat. Syst.

Gentianaceæ.

Walter, Fl. Carol. 87. Griffith, Med. Bot.

The root, which is the officinal portion, is large and succulent, and is usually dried in circular sections, like colombo. It has no odor in a dried state, but possesses a sweetish-bitter taste, which according to G. W. Kennedy is due to gentiopicrin. It is a mild bitter tonic, suited to all cases to which the simple bitters are applicable. The dose, in powder, is from thirty grains to a drachm.

## Infusion of American Colombo.

R. American colombo,
bruised, one ounce.
Boiling water, one pint.
Infuse for an hour, and strain. Wood.
Dose, one to two fl. ounces several times a day.

## Tincture of American Colombo.

R. Contused American
colombo, one ounce.
Diluted alcohol, one pint.

Macerate for fourteen days, and filter.
Dose, one to three drachms.

Dunglison.

## FULIGO.

#### SOOT.

The soot of wood is of a black color, has a peculiar smell, and a bitter, disagreeable, empyreumatic taste. It owes its properties to the presence of pyrogenous oil or resin, and creasote; but also contains various salts, united to acetic acid. It was formerly officinal, but gradually was relinquished in regular practice; but, of late years, has again attracted attention, and has been employed with success in a variety of diseases.

#### Pills of Soot.

R. Extract of soot, half a drachm.
Comp. galbanum pill, one scruple.
Oil of valerian, ten minims.
Mix well, and form twelve pills; two, thrice a day, in hysteria.

Neligan.

R. Soot, one drachm and a half.
Carbonate of ammonium, half a
drachm.
Tar, sufficient.
Mix, and make five grain pills. Ferriar.

#### Decoction of Soot.

R. Soot, two handfuls.

Water, two pints.

Boil for half an hour, and strain. As a lotion, in herpetic, psoric, and venereal ulcers.

Soubeiran.

## Tincture of Soot.

R. Soot, one part.
Diluted alcohol, eight parts.

Macerate for eight days, and filter. Dose, from thirty to sixty drops, as an antispasmodic in hysteria, etc.

Guibourt.

#### Mixture of Soot.

R. Soot, half an ounce.
Carbonate of potassium, one
ounce and a half.
Carbonate of ammonium, two
drachms.
Elder-flower water, nine fl. ounces.

filter. Dose, thirty to sixty drops, several times a day. In dyspepsia, suppressed cutaneous affections, etc. Dunglison.

R. Hickory ashes, one quart. Soot, six ounces. Boiling water. one gallon. Mix, and digest for twenty-four hours, frequently stirring, and decant. A teacupful, three times a day, used in dyspepsia.

#### Soot Mouth-Wash.

R. Extract of soot, one part. Vinegar, twelve parts. Mix. A few drops, in a glass of tepid water, in aphthous sore mouth. Soubeiran.

#### Oil of Soot.

R. Soot, four ounces. Olive oil, twelve ounces. Boil, and strain. As an application to ulcers in the mouth, or on the genitals.

Radius.

#### Soot Ointment.

R. Soot, one part. Lard. four parts. Triturate together. As an application in tinea, scrofulous sores, etc. Soubeiran.

#### Compound Soot Ointment.

R. Soot, Lard, each, half an ounce. Extract of belladonna, one drachm.

Triturate together. As an application to cancerous sores. Radius.

R. Soot, an ounce and a half. Lard, four ounces. Sulphate of zinc, six drachms. Triturate together. In cases of tinea.

Bories.

#### Cataplasm of Soot.

R. Soot, two ounces. Whites of eggs, six.

Digest for some time by a gentle heat, and Mix. As an application to tinea, herpes, and scrofulous ulcers.

#### Injection of Soot.

R. Decoction of soot, one pint. Alum, half an ounce. Water, six ounces. Mix. Advised as an injection, in leucorrhœa. Soubeiran.

## FULIGOKALI.

#### FULIGOKALI.

R. Potassa, twenty parts. Shining soot, one hundred parts. sufficient. Water,

Boil for an hour, cool, dilute with water, filter, evaporate to dryness, and keep in well-closed bottles. Deschamps.

Used, both internally and externally, in chronic cutaneous disorders. Dose, two to three grains, several times a day.

## Sulphuretted Fuligokali.

R. Fuligokali, sixty parts. fourteen parts. Potassa, Sulphur, five parts. Dissolve the sulphur and potassa, add the fuligokali, and evaporate to dryness.

#### Pills of Sulphuretted Fuligokali.

R. Sulphuretted fuligokali, drachms. Starch, two drachms and a half. eight grains. Tragacanth, sufficient. Syrup, Mix, and make one hundred pills, and cover them with two or three coats of tragacanth. Deschamps.

## Ointment of Fuligokali.

R. Fuligokali, sixteen to thirty grains. one ounce. Lard, Triturate together. Used as a detersive, resolvent, and somewhat stimulant application, in obstinate cutaneous affections.

Gibert.

G.

## GALBANUM.

#### GALBANUM.

This is the gum resin of an unknown plant, but generally admitted to belong to the Apiaceæ. According to Don and others, the Asiatic galbanum is the product of Galbanum officinale, a native of Persia. Boissier refers it to Ferula erubescens.

Don, Trans. Linn. Soc. xvi. 603. Griffith,

Med. Bot. 333.

Galbanum is in whitish or yellowish tears, or in brownish-yellow or brownish masses, formed of these tears agglutinated, and containing various impurities. The odor is peculiar, and somewhat balsamic; the taste is hot, bitter, and acrid. It is stimulant, expectorant, and antispasmodic, in doses of ten to twenty grains; and also used externally to indolent swellings, etc.

## Purified Galbanum.

R. Galbanum, in small

pieces, three parts. Water, two parts.

Digest in a tared capsule until the gum resin is completely divided, add sufficient stronger alcohol to form with the water of the emulsion a menstruum of sixty per cent. alcoholic strength; boil for a minute, strain with expression through moderately coarse muslin, and evaporate by means of a waterbath, to the proper consistence.

Paris Codex.

## Compound Galbanum Pills.

R. Galbanum,

Myrrh, each,
Assafetida,
Syrup,
thirty-six grains.
twelve grains.
sufficient.

Beat into mass, and divide into twenty-four pills.

U. S. Ph.

Dose, two to four, in chlorosis and hysteria.

R. Assafetida, Galbanum, Hyrrh, Molasses, one ounces.

Molasses, one ounce. Heat by a water-bath and stir until the mass assumes a uniform consistence.

It is called Compound Pill of Assafetida

by Brit. Ph.

Dose, five to ten grains.

R. Galbanum, two drachms.
Oil of savine, four to twelve drops. Mix.

Malate of iron, one drachm and a half.
Powdered valerian, sufficient.
Beat into mass, and divide into one hundred and twenty pills. Two three times a day, in amenorrhœa, chlorosis, etc.

Phæbus.

#### Galbanum Mixture.

R. Galbanum, two drachms.
Vinegar of squill,
Fennel water, each, two fl. ounces.
Spirit of Mindererus, two
fl. drachms.
Spirit of nitrous ether, one
fl. drachm.
Syrup of mallows, half fl. ounce.

Syrup of mallows, half fl. ounce.

Mix. Three or four spoonfuls a day, in humid asthma.

Jahn.

#### Tincture of Galbanum.

R. Galbanum, in small

pieces, two ounces.
Proof spirit, two pints.

Digest for seven days, and filter.

Dub. Ph. 1826.

Antispasmodic, etc. In doses of one to three fl. drachms.

## Compound Tincture of Galbanum.

R. Tincture of galbanum, wormwood, spirit of rosemary, Spirit of rosemary, Mix. Dose, forty to fifty drops.

Augustin.

#### Galbanum Plaster.

R. Lead plaster, eight ounces.
Galbanum,
Ammoniacum,
Yellow wax,
each, one ounce.

Melt the galbanum and ammoniac, and strain: then add the plaster and wax, previously melted, and mix.

Brit. Ph.

R. Turpentine, five parts.
Yellow wax, eight parts.

Melt together, and add

Galbanum, softened by

vinegar, twelve parts.

Span. Ph.

## Compound Galbanum Plaster.

R. Galbanum, eight troyounces.
Turpentine, one troyounces.
Burgundy pitch, three troyounces.
Lead plaster, thirty-six
troyounces.

Melt the galbanum and turpentine together, strain, add the pitch, and then the lead plaster, melted; mix well. U.S. Ph.

This resembles the compound diachylon plaster of Ph. Germ., and the gummy diachylon plaster of Paris Codex.

A good application to chronic scrofulous enlargements of the glands and joints.

#### R. Galbanum and saffron

plaster, eight parts.
Camphor,
Petroleum,
Carbonate of ammonium,
Melt together. In chronic rheumatism.

Augustin.

#### Galbanum Plaster with Saffron.

R. Lead plaster, twenty-four parts.
Yellow wax, eight parts.
Melt, and when nearly cold, add

Purified galbanum, twenty-four parts,

previously dissolved by the aid of a waterbath in

Common turpentine, six parts.

Then add

Powdered saffron, one part, previously beaten, with some alcohol, into a pulpy mass. Mix well, and form into rolls.

Ph. Germ.

R. Yellow wax,
Resin,
Burgundy pitch,

each, six parts.

Melt together, and add, diffused in

Common turpentine, three parts. Powdered ammoniac,

" galbanum,

each, two parts.

Afterwards add the mixture of

Powdered mastic, "myrrh, olibanum, each, two parts. saffron, one part.

Mix thoroughly. This is the emplastrum oxycroceum, much employed in Europe.

Ph. Germ. Mix. As a styptic.

## GALIUM VERUM.

#### YELLOW LADIES-BEDSTRAW.

A perennial, herbaceous plant, native of Europe, which is stated to have the power of coagulating milk, and also used to dye yellow.

Sex. Syst. Tetrand. monog. Nat. Syst. Ru-

biaceæ.

Linn. Sp. Pl. 155. Stokes, Bot. Mat. Med.

i. 202

The whole plant is used; it has an agreeable odor, and an astringent, acidulous, somewhat acrid taste. It was at one time much used in epilepsy and hysteria, and also as an application in cutaneous affections.

#### Infusion of Yellow Ladies-Bedstraw.

R. Flowers of yellow ladies-

bedstraw, two drachms. Boiling water, two pints.

Digest for an hour, and strain. To be taken in a tepid state, in wineglassful doses, as a sedative and antispasmodic, in cerebral affections.

Chaussier.

#### Wine of Yellow Ladies-Bedstraw.

R. Expressed juice of yellow ladies-bedstraw, six fl. ounces. White wine, one to two fl. ounces.

Mix. To be taken in epilepsy, as soon as indications of an attack manifest themselves.

Bories.

#### GALLA.

#### GALLS.

Galls are morbid excrescences on Quercus infectoria, caused by the puncture of a hymenopterous insect, the Diplolepis gallæ tinctoriæ. They come from the Levant ports, and present several varieties, the best of which are dark colored. They are round, hard, solid, brittle, inodorous, and have a bitter, very astringent taste. They contain tannic and gallic acids. They are powerfully astringent. They are more used as external applications than as internal remedies. Dose, ten to thirty grains, several times a day.

## Compound Powder of Galls.

R. Powdered galls,

"kino,
each,
Powdered alum,
half an ounce.
two drachms.

Radius.
Radius.

#### Decoction of Galls.

R. Galls, half an ounce.
Water, one pint and a half.
Boil to a pint, and strain.

R. Bruised galls, two ounces and a half.

Water, two pints.

Boil to a pint, and strain.

Lond. Ph.

### Infusion of Galls.

R. Powdered galls, one to two drachms.

Boiling water, one pint.

Digest for an hour, and strain. Used for injections, fomentations, gargles, etc.

Taddei.

Compound Infusion of Galls.

R. Infusion of galls, four fl. ounces.

Prepared chalk, half an ounce.

Tincture of opium, half fl. drachm.

Powdered gum Arabic, one drachm.

Mix. Dose, a tablespoonful every two hours. In diarrhœa. Ellis.

## Gargle of Galls.

R. Infusion of galls, seven fl. ounces.
Alcohol, one fl. ounce.

Mix. As a gargle in relaxation of uvula
and soft palate.

Ellis.

#### Lotion of Galls.

R. Claret wine, one pint.

Common salt, one drachm.

Sulphate of iron, two drachms.

Boil for a few minutes, and add

Oxide of copper, one drachm.

Boil for two minutes. Add

Powdered galls, two drachms.

This is used to color the hair; it is to be washed with this fluid, dried with a warm cloth, and then washed with common water.

Laforest.

### Aromatic Syrup of Galls.

R. Bruised galls, four drachms.
Brandy, eight fl. ounces.
Powdered cinnamon,
mace,

each, two drachms.

Digest for two hours, and then burn off the brandy, holding some lumps of sugar in the roughly.

flame; strain; decant. Dose, a tablespoonful every two hours. In obstinate chronic diarrhœa. Parrish.

R. Powdered galls, half a troyounce.

" cinnamon, nutmeg,

each, two drachms.
Glycerin, six drachms.
Syrup, six fl. ounces.
Brandy, sufficient.

Obtain from the mixed powders, with brandy, six fl. ounces of tincture, add the glycerin, evaporate at 125° to three fl. ounces, filter, and mix with the syrup.

D. G. Potts.

#### Tinoture of Galls.

R. Galls, in powder,
No. 50, four troyounces.
Diluted alcohol, sufficient.
Obtain by percolation two pints.
U. S. Ph.

The tincture of Brit. Ph. is of about the same strength.

R. Bruised galls, one part.
Alcohol, sp. gr. 892, five parts.
Macerate for a week, express, and filter.

Ph. Germ.

A powerful astringent, in doses of one to three fl. drachms.

R. Bruised galls, one pound.
Water, two pints.
Macerate twenty-four hours, and add

Alcohol, two pints. Eau de Cologne, six fl. ounces. Filter. As an injection, diluted with water, in leucorrhœa and gonorrhœa. Gibert.

#### Extract of Galls.

R. Galls, in coarse powder, at will. Macerate in sufficient water to cover them for twenty-four hours; then introduce the moist mass into a displacer, and act on it with water, until the galls are nearly exhausted; evaporate the infusion to dryness, on a water-bath.

#### Ointment of Extract of Galls.

R. Extract of galls, one drachm.

Lard, one ounce.

Triturate the extract with a little water, until it is reduced to a uniform syrupy consistence, then add the lard, and mix thoroughly.

D. S. Jones.

#### Ointment of Galls.

R. Galls, in very fine
powder, sixty grains.
Lard, four hundred and twenty
grains.

Mix thoroughly. As an application to piles, prolapsus ani, and to indolent ulcers.

U. S. Ph.

R. Galls, in fine powder,

Benzoinated lard, eighty grains.

Mix thoroughly. eighty grains.

one ounce.

Brit. Ph.

## Compound Ointment of Galls.

R. Ointment of galls, one ounce. Powdered opium, thirty-two grains.

Mix thoroughly. This is the ointment of galls and opium of Brit. Ph.

As an application to irritable piles, etc.

R. Powdered galls,
Tincture of opium,
each,
Camphor,
Lard,
two parts.
one part.
eight parts.

Triturate well together. As an application to painful piles. Foy.

R. Finely powdered galls, one scruple.
Simple cerate, one ounce.
Essence of lemon, twenty drops.
Lead water,
Laudanum, each, forty drops.

Rub well together. As an application to hemorrhoids, after subsidence of inflammation.

Dewees.

## GAMBOGIA.

#### GAMBOGE.

This is the gum resin of Garcinia morella, var. pedicellata (Garcinia gutta, Wight), a tree growing in Siam and other portions of the East Indies.

Sex. Syst. Polyand. monog. Nat. Syst. Clu-

Graham, Comp. Bot. Mag. ii. 199. Griffith, Med. Bot. 152.

Gamboge, also called cambage and gutti, is a gum resin, of a yellow-orange color, opaque, brittle, almost inodorous, of an insipid taste at first, but soon becoming acrid. It is a powerful hydragogue and drastic purgative, but apt to produce nausea and vomiting. Dose, from one to six grains, in pill, emulsion, or alkaline solution.

## Compound Powder of Gamboge.

R. Bitartrate of potassium,

Powdered jalap,

two drachms.
jalap, one drachm.
gamboge, six grains.
into six powders. One to

Mix, and divide into six powders. One to be given every two or three hours, in syrup, as a hydragogue purgative. Ellis.

R. Powdered gamboge, two grains. sulphate of iron,

six grains.
sugar, one scruple.

Oil of peppermint, three drops.

Mix. To be taken twice a day, against tapeworm.

Vogt.

## Compound Pills of Gamboge.

R. Powdered gamboge,

"Barbadoes aloes,
compound powder of cinnamon,
Hard soap, in powder,

"Barbadoes one ounce.

Syrup, two ounces.

Syrup, sufficient.

Mix, and beat into a uniform mass. Dose, five to ten grains.

Brit. Ph.

R. Powdered gamboge, ten grains. "guaiacum,

Blanched almonds, each,

Syrup,

one drachm. sufficient.

Beat together, and form twenty-eight pills. Two to four, as a gentle purgative. Saunders.

## Alkaline Solution of Gamboge.

R. Powdered gamboge, one drachm. Carbonate of potassium,

three drachms.

Water, six fl. drachms. Dissolve. Dose, fifteen drops every three

Dissolve. Dose, fifteen drops every three hours, as a hydragogue in dropsies.

Van Mons.

r tere mores

#### Gamboge Mixture.

R. Powdered gamboge, four grains. Spirit of nitrous ether,

one fl. drachm.

Tincture of senna, two fl. drachms. Mint water,

Syrup of buckthorn,

each, half a fl. ounce.

Mix. As a hydragogue purgative, in dropsy, especially in hydrothorax. Ferriar.

two scruples. R. Gamboge, Tartrate of potassium, one ounce. two drachms. White sugar, six ounces. Water,

Make a solution. As a purgative in ascites. A tablespoonful, every two or three hours, until it operates.

## Gamboge and Elaterin Mixture.

R. Gamboge, four grains. half a grain. Elaterin, Sweet spirit of nitre, one ounce. four ounces. Water,

Mix. As a hydragogue purgative, in ascites. A tablespoonful, to be taken every two or three hours, until free purgation is induced. Dewees.

## Alkaline Tincture of Gamboge.

R. Gamboge, one part. Carbonate of potassium,

two parts.

Diluted alcohol, twenty-four parts. Digest for some days, and filter. Scherf.

## Ammoniacal Tincture of Gamboge.

R. Gamboge, thirty-six grains. Spirit of ammonia, four fl. ounces. Digest for eight days, and filter. Dose, one to two fl. drachms. Swediaur.

## GAULTHERIA.

#### PARTRIDGE BERRY.

The leaves of Gaultheria procumbens, a small, indigenous, evergreen plant, found in most parts of the United States, in dry, sandy situations.

Sex. Syst. Decand. monog. Nat. Syst.

Ericaceæ.

Kalm, Amœn. Acad. iii. 14. Griffith,

Med. Bot. 424.

These leaves have a peculiar aromatic taste and odor, with a little astringency. They are stimulant, and somewhat tonic and astringent; and are much used in the form of tea, in bowel diseases, and as an emmenagogue.

## Oil of Partridge Berry.

R. Leaves of partridge berry,

at will. sufficient.

Water, Distil, and collect the oil that passes.

U. S. Ph.

Principally used to flavor mixtures, etc. In large doses, is poisonous. Dissolved in diluted alcohol, is in common use as a carminative and stimulant.

## Partridge-Berry Water.

R. Oil of partridge berry,

sixteen drops.

Carbonate of magnesium,

one drachm.

Water, one pint.

Triturate the oil, magnesia, and a little of the water together, then add the rest of the water, and filter.

## GELSEMIUM.

## YELLOW JASMINE.

G. sempervirens is indigenous in the southern portion of this country; it is a high climbing shrub with opposite and entire ovate-lanceolate shining leaves, and showy, yellow, fragrant flowers.

Sex. Syst. Pentand. monogyn. Nat. Syst.

Loganiaceæ.

The root is the officinal part; it comes in pieces varying in length and thickness, and consisting of a hard, woody central portion covered with a brownish-gray bark; the latter has a persistent aromatic odor, and a balsamic and bitter taste. It contains an alkaloid, gelseminia, which is probably the active principle, and a peculiar crystallizable acid called gelseminic acid. It is a nervous and arterial sedative, poisonous in overdoses, and has been recommended in pneumonia, pleurisy, neuralgia, intermit-tent and yellow fever. Dose, three to ten grains, usually in the form of tincture or fluid extract.

### Tincture of Yellow Jasmine.

R. Powdered yellow jasmine four troyounces. root. Diluted alcohol, twelve fl. ounces.

Macerate for two weeks, and filter. Dose, twenty to forty drops.

Maryland Coll. Ph.

#### Fluid Extract of Yellow Jasmine.

R. Yellow jasmine, in powder, sixteen troyounces. No. 80, Alcohol, sufficient.

Moisten the powder with four fl. ounces of alcohol, pack in a percolator, add twelve fl. ounces of alcohol, and macerate for four days: then with alcohol displace twentyfour fl. ounces, reserving the first fourteen, evaporate the remaining tincture to two fl. ounces, and mix with reserved portion.

U. S. Ph. Dose, three to five minims, gradually in-

creased.

#### GENTIANA.

#### GENTIAN.

The roots of several species of gentian are used in medicine; but that which is most generally recognized as officinal is *Gentiana lutea*, a tall, perennial plant, native of the mountains of Europe.

Sex. Syst. Pentand. digyn. Nat. Syst. Gen-

tianaceæ.

Linn. Sp. Pl. 329. Griffith, Med. Bot. 460. The root is of a grayish-brown color externally, and yellowish within; it has a slightly sweetish, but extremely bitter taste, residing in a principle called gentiopicrin, and a faint but peculiar odor. It is a pure and simple bitter tonic, with no astringency. The dose of the powder is from ten to forty grains, but is seldom given in this form. The principle formerly called gentianin is crystallizable gentisic acid, having a yellow color.

The root of G. Catesbæi, of this country, is

sometimes used like the preceding.

## Compound Powder of Gentian.

R. Powdered gentian, cascarilla, each, one

" orange-peel, drachm.
Peppermint sugar, three drachms.
Mix. Dose, thirty grains, several times a

#### Extract of Gentian.

R. Gentian, in powder,

day, as a stomachic.

No. 40, twelve troyounces. Water, sufficient.

Exhaust the powder by means of displacement. Boil the liquid to three-fourths of its bulk, strain, and evaporate to proper consistence. U. S. Ph. and Paris Codex. The process of Ph. Germ, is similar,

The process of Ph. Germ, is similar, maceration and expression being directed

in place of percolation.

R. Gentian, sliced, one pound. Boiling distilled water,

ten pounds.

Augustin.

Infuse for two hours, boil for fifteen minutes, pour off, press, and strain; then evaporate to the proper consistence. Brit. Ph.

Dose, ten to thirty grains, as a tonic; also as a basis for various metallic pills.

#### Compound Gentian Pills.

R. Powdered aloes, one drachm.
Extract of gentian, half a drachm.
Oil of caraway, ten drops.
Syrup, sufficient.

Beat into mass, and form pills of four grains. Two or three for a dose, as a purgative. Extract of gentian, Powdered rhubarb, Soap, Water, sufficient.

Beat into mass, and form four grain pills. Tonic and laxative. Fulda Dis.

#### Fluid Extract of Gentian.

R. Gentian, in powder,

No. 40,
Glycerin,
Water,
Alcohol,
Sixteen troyounces.
three fl. ounces.
five fl. ounces.
eight fl. ounces.

Mix the liquids, moisten the powder with four fl. ounces of the mixture, pack into a percolator, add the remaining liquid, and macerate for four days; then, with diluted alcohol, percolate twenty-four fl. ounces, reserving the first fourteen; add to the remainder one fl. ounce of glycerin, evaporate to two fl. ounces, and mix with the reserved portion.

U. S. Ph.

#### Infusion of Gentian.

R. Contused gentian, one drachm.
Cold water, twenty-five ounces.
Infuse for four hours, and strain.

Paris Codex.

#### Compound Infusion of Gentian.

R. Gentian, in powder,

No. 40, half a troyounce. Bitter orange-peel, in powder,

No. 40, Coriander, in powder,

No. 40, each, sixty grains.
Alcohol, two fl. ounces.
Water, fourteen fl. ounces.

Moisten the powders with three fl. drachms of the mixed liquids, pack firmly into a percolator, add the remaining mixture, and finally water to obtain one pint. U. S. Ph.

Dose, a fl. ounce, as a tonic.

A preparation scarcely differing from the foregoing is now called *Gentian Mixture* by the *Brit. Ph.* 

R. Gentian, sliced,

Bitter orange-peel, cut,

each, sixty grains.

Fresh lemon-peel, cut, a quarter
ounce.

Boiling distilled water, ten fl. ounces.

rains. Infuse for an hour, and strain. Brit. Ph. Weaker than the preceding. Dose, one Ellis. to two fl. ounces.

R. Bruised gentian,

calamus, each, one ounce. R. Gentian, bruised, six drachms. Centaury, two drachms. Rosemary, Boiling water, four pints.

Infuse for twelve hours, and strain. Used as an emmenagogue, in doses of three Spielmann. ounces, twice a day.

## Infusion of Gentian with Rhubarb.

R. Bruised gentian, one drachm. rhubarb, two drachms. Boiling water, twelve fl. ounces. Macerate for an hour, strain, and add

Carbonate of ammonium, scruples.

Dose, one to two fl. ounces, in dyspepsia, chronic rheumatism, etc.

Steph. and Church.

#### Mixture of Gentian.

R. Carbonate of magnesium, drachm. Infusion of gentian, six fl. ounces.

Mix. A wineglassful three times a day, as an antilithic, where uric acid abounds.

Brande. See also Compound infusion of gentian.

R. Extract of gentian, two drachms. Carbonate of potassium, two scruples. five fl. ounces. Mint water, Tincture of orange-peel, five fl. drachms. one ounce.

Mix. A spoonful three times a day, as a stomachic and carminative. Berends.

#### Concentrated Infusion of Gentian.

R. Gentian, in powder, two troyounces.

Orange-peel, Coriander, half a each, troyounce. Diluted alcohol, sufficient.

Make a pint of tincture by percolation. For compound infusion of gentian add four fl. ounces of this tincture to twelve fl. ounces of water. Thus made, it contains the proper proportion of alcohol, and is of Dissolve the extract in the water, add the officinal strength in gentian, orange-peel, and coriander.

#### Wine of Gentian.

three parts. Alcohol, of 60 pr. ct., six parts. Macerate for twenty-four hours, and add French red wine, one hundred parts.

Macerate for ten days, express, and filter. Paris Codex.

#### Ferrated Elixir of Gentian.

R. Pyrophosphate of iron, two hundred and fifty-six grains. Water, two fl. ounces. six fl. ounces. Curaçoa cordial, Fluid extract of gentian, fl. ounces. Sherry wine, sufficient to make one pint. Dose, one to two tea-W. B. Thompson. spoonfuls.

## Compound Wine of Gentian.

R. Gentian, coarsely powdered, half an ounce. Yellow bark, coarsely powdered, one ounce. Orange-peel, two drachms. Canella, in coarse powder, drachm. four fl. ounces Proof spirit, and a half.

Sherry wine, thirty-six fl. ounces. Digest the root and barks in the spirit for twenty-four hours; add wine, digest for seven days, express, strain, and filter.

Ed. Ph.A stomachic bitter, in doses of four to eight fl. drachms.

## Syrup of Gentian.

R. Bruised gentian, one part. Boiling water, sufficient. Macerate for six hours, express, strain, and obtain ten parts of infusion; add

Sugar, nineteen parts. Dissolve. Dose, a teaspoonful to a table-Paris Codex. spoonful.

## Syrup of Extract of Gentian.

R. Aqueous extract of gentian, two drachms. Water, eight fl. ounces. Sugar, sixteen ounces (avoir.). sugar, and form a syrup with a gentle heat, W. Procter. Shinn. and strain.

#### Tincture of Gentian.

R. Gentian, one part.

Alcohol, of 60 pr. ct., five parts.

Macerate for ten days, express, and filter.

Dose, one to two fl. drachms.

Paris Codex and Ph. Germ.

#### Acidulated Tincture of Gentian.

R. Compound tincture

of gentian, four fl. ounces.
Elixir of vitriol, half fl. drachm.
Mix. A teaspoonful, in sugar and water,
three or four times a day.

Ellis.

## Compound Tincture of Gentian.

R. Gentian, in powder,

No. 50, two troyounces.

Orange-peel, in powder,

No. 50, one troyounce.

Cardamom, in powder,

No. 50, half a troyounce. Diluted alcohol, sufficient.

Obtain by displacement two pints.

U.S. Ph.

The corresponding tincture of Brit. Ph. is about one-seventh stronger.

An excellent bitter tonic, in dose of one

to two fl. drachms.

#### Ammoniacal Tincture of Gentian.

R. Bruised gentian, one ounce. Carbonate of

ammonium, two drachms. Diluted alcohol, two pints.

Macerate the root in the alcohol for eight days, filter, and add the ammonia. Dose, one to four fl. drachms, in scrofula.

Taddei.

## Alkaline Tincture of Gentian.

R. Bruised gentian, ten parts. Carbonate of sodium, three parts. Alcohol, of

60 per ct., three hundred parts.

Macerate for ten days, and filter. Used in same cases, and same doses, as the former.

This is the Compound tincture of gentian of Paris Codex.

#### Mixture of Tincture of Gentian.

R. Tincture of gentian, one fl. ounce and a half.

Tincture of rhubarb,

cinnamon,

each, half fl. ounce.

opium, ten drops.

Mix. A dessertspoonful every hour, in diarrheea. Foy.

R. Extract of gentian,

cascarilla,

each, two drachms.

Peppermint water, four fl. ounces.

Mix. In spoonful doses, as a tonic and stomachic.

St. Marie.

## Gentian and Sulphuric Acid Mixture.

R. Compound infusion

of gentian, five fl. ounces.

Compound tincture

of gentian, one fl. ounce.

Diluted sulphuric

acid, one fl. drachm.

Mix. A tablespoonful, three times a day, in dyspepsia.

Brande.

## GERANIUM.

#### CRANESBILL.

This is the rhizome of Geranium maculatum, a native, perennial plant, found, in most parts of the country, in woods and shady places.

shady places.
Sex. Syst. Monadelph. decand. Nat. Syst.

Geraniaceæ.

Linn. Sp. Pl. 955. Griffith, Med. Bot.

209

The root is in small rough pieces, of a dark-brown color externally, and flesh-colored within. It is inodorous; the taste is astringent, but not bitter. The dose is from ten to thirty grains, as an astringent, in all cases in which kino or rhatany is found useful.

#### Decoction of Geranium.

R. Geranium, one ounce.

Water, one pint and a half.

Boil down to a pint. Dose, from one to two fl. ounces.

Wood.

#### Aromatic Syrup of Geranium.

R. Powdered geranium, three troyounces.

" cinnamon, sixty grains.

" cloves,

" nutmeg, each, thirty grains.

Sugar, eight troyounces. Diluted alcohol, sufficient.

Obtain from the mixed aromatics by percolation half a fl. ounce, and from the geranium one pint of tincture; evaporate the latter to four fl. ounces, filter, dissolve in it the sugar, strain, and add the aromatic tincture.

D. G. Potts.

Dose, a teaspoonful.

#### Fluid Extract of Geranium.

R. Geranium, in powder,

No. 50, sixteen troyounces. Glycerin, three fluidounces. Water, five fluidounces. Alcohol, eight fluidounces.

Mix the liquids, moisten the powder with four fl. ounces of the mixture, pack into a percolator, add the remaining liquid, and macerate for four days. Then with diluted alcohol displace twenty-four fluidounces, reserving the first fourteen, add to the remainder one fl. ounce of glycerin, evaporate to two fl. ounces, and mix with reserved portion. U. S. Ph.

Dose, ten to thirty minims.

## Extract of Geranium.

R. Bruised geranium

root, one pound. Water, one gallon.

Boil down to one-half, strain, and evaporate to due consistence. This extract is very similar to that of Rhatany, and may be given in the same cases and in the same doses.

## GEOFFROYA INERMIS.

## CABBAGE-TREE BARK.

The Cabbage-Tree is a native of the West India Islands; it is a large tree, having a smooth, gray bark.

Sex. Syst. Diadelph. decand. Nat. Syst.

Fabaceæ.

Linn. Sp. Pl. 1043. Griffith, Med. Bot.

247. (Andira.)

The bark is in long, fibrous pieces, of a brownish-ash-color externally, and yellow-ish within; it has a resinous fracture, an unpleasant odor, and a sweetish, mucilaginous, bitterish taste. It is a powerful vermifuge, in doses of a scruple to half a drachm. The best form of administration is in syrup.

## Decoction of Cabbage-Tree Bark.

R. Cabbage-tree bark, one ounce. Water, two pints. Boil down to one pint, and strain. Dose, one to two fl. ounces.

## Extract of Cabbage-Tree Bark.

R. Cabbage-tree bark, one part. Water, eight parts. Boil for a quarter of an hour, strain; add four parts of water, boil, and strain; evaporate the united decoctions to a proper con-

sistence. Dose, three grains. Belg. Ph.

#### Mixture of Cabbage-Tree Bark.

R. Cabbage-tree bark, half an ounce. Water, six ounces.

Boil for half an hour, strain, and add

Tincture of cabbage-tree

bark, one ounce.

Syrup of orange,

peel, half an ounce.

A tablespoonful, morning and evening.

Niemann.

## GEUM.

AVENS.

## 1. GEUM RIVALE.

## WATER AVENS.

This plant is a native of Europe and the United States, in wet, boggy situations. Sex. Syst. Icosand. polyg. Nat. Syst. Rosa-

Linn. Sp. Pl. 717. English Bot. 1, 106. Root reddish or purplish, hard and brittle, inodorous, of an astringent, bitterish taste. It is tonic and astringent, and has been used advantageously in passive hemorrhages, leucorrhœa, etc. The dose, in powder, is from a scruple to a drachm, three times a day.

## Decoction of Water Avens.

R. Water avens root, one ounce. one pint and a half. Water, Boil down to a pint, and strain. To be given in doses of one or two fl. ounces.

## 2. GEUM VIRGINIANUM.

#### WHITE AVENS.

Also a native of the United States, growing in woods and along streams. Flowers small and white.

Linn. Sp. Pl. 719. Griffith, Med. Bot. 279. The root is of a brown color, somewhat aromatic, and of a bitterish, astringent taste. It has the same properties as the G. Rivale, and is given in the same cases and doses.

## 3. GEUM URBANUM.

#### AVENS.

A native of Europe, growing in woods and waste places. The flowers are small, and of a yellow color.
Linn. Sp. Pl. 716. Eng. Bot. i. 1400.

The root called clove root in Europe, con-

sists of a short caudex with many long fibres. When fresh, it has somewhat the odor of cloves, but when dry, is almost inodorous. The taste is bitter and astringent. Like the other species, it is tonic and astringent.

## Compound Powder of Avens.

B. Powdered avens root,

gum Arabic,

each, three drachms.

" kino,

" cinnamon,

each, one drachm. sugar, half an ounce.

Mix. A teaspoonful every two or three hours, in diarrhœa. Vogel.

### Mixture of Avens.

R. Bruised avens, one ounce.
Water, twelve fl. ounces.
Boil to eight ounces, and to the strained cold decoction, add

Extract of avens, two drachms.
Sulphuric ether, one drachm.

Mix. Two spoonfuls every two hours.
As a febrifuge.

Radius.

## GILLENIA.

#### Indian Physic.

This is the root of Gillenia trifoliata and G. stipulacea, native herbaceous plants, found in most parts of the country, in shady and rather marshy situations.

Sex. Syst. Icosand. pentag. Nat. Syst. Rosa-

Mœnch, Sp. Pl. 286. Griffith, Med. Bot. 282.

The roots are about as thick as a quill, wrinkled longitudinally, and irregularly undulated; a light brown color, and consisting of a thick cortical portion, and slender ligneous centre. The bark is of a disagreeable, bitter taste. It is a mild and certain emetic, and forms a good substitute for ipecacuanha. The dose is from twenty to thirty grains, to be repeated in half an hour if it does not produce the desired effect.

#### GLYCERINA.

## GLYCERIN.

R. Lead plaster, recently prepared, and fluid,

Boiling water, each, one gallon. Mix, stir briskly for fifteen minutes, cool, and pour off the supernatant liquid. Evaporate this to the sp. gr. 1.15, and pass a current of sulphuretted hydrogen slowly

through it while a black precipitate is thrown down. Filter, boil, and evaporate until the liquid ceases to lose weight.

U. S. Ph. 1850. In a pure state it is a nearly colorless, viscid fluid, and is uncrystallizable. Sp. gr. 1.25. Glycerin is now made by decomposing fats

and distilling by steam under high pressure.

It has been used with success in lotions, poultices, baths, etc., to render them emollient and soothing; in diseases of the skin, as pityriasis, impetigo, chapped hands, nipples, face, etc.

## Lotion of Glycerin.

B. Glycerin, one fl. drachm.
Borax, ten grains.
Rose water, seven fl. drachms.
Mix. Used as a lotion in lichen, three times a day; also in chapped hands.

Clymer.

#### Glycerin Ointment.

R. Spermaceti, half an ounce.
White wax, one drachm.
Oil of almonds, two fl. ounces.
Glycerin, one fl. ounce.
Melt the wax and spermaceti with the oil of almonds at a moderate heat, add the

glycerin, and rub until well mixed and cold.
Used to protect and soothe inflamed sur-

faces. Used to protect and soothe inflamed surfaces.

J. H. Ecky.

R. White wax,

Spermaceti, each, one ounce and a half.

Lard, five ounces.

Glycerin, one fl. ounce.

Melt the wax and spermaceti, add the lard and stir till the mixture thickens, then add the glycerin and mix thoroughly.

Used as a substitute for spermaceti cerate.

J. Laidley.

#### Glycerin of Starch.

R. Starch, one ounce. Glycerin, eight fl. ounces. Rub together in a porcelain dish, heat gradually to 240°, constantly stirring until a translucent jelly is formed. Brit. Ph.

R. Powdered starch, one part.
Glycerin, fifteen parts.
Mix and heat gradually until a gelatinous mass results.

Paris Codex.

R. Starch,
Distilled water,
Triturate together, and add
Glycerin,
two parts.
one part.

Heat by a water-bath until a diaphanous mass results. Ph. Germ.

This has also been called plasma and glycamyl; by the Codex, glycerate of starch; and by the Ph. Germ., glycerin ointment.

## Glycerin Paste.

R. Gum Arabic, one ounce.

Boiling water, two fl. ounces.

Glycerin, two fl. drachms.

Dissolve the gum in the water, add the

glycerin, and strain if necessary.

P. B. Goddard.

## GLYCYRRHIZA.

## LIQUORICE ROOT.

Several species of this genus have sweet and demulcent roots, but the only officinal species of the *U. S. Ph.* is the *G. glabra*, a native of the south of Europe, and of some parts of Asia and Africa, and also successfully cultivated in more northern regions.

Sex. Syst. Diadelph. decand. Nat. Syst.

Fabaceæ.

Linn. Sp. Pl. 1046. Griffith, Med. Bot.

236.

The root is in long pieces of various thicknesses, of a grayish-brown color externally, and yellowish within; it is inodorous, and of a sweet, mucilaginous taste, with a slight degree of acridity. The root of *G. echinata*, which is recognized by several European pharmacopæias, is known in commerce as Russian liquorice root, thicker than the former, lighter, and sweeter, and comes usually deprived of the bark. It is an excellent demulcent, and is much used in affections of the mucous membranes, and as an addition to the more irritating or nauseous remedies, to abate their acrimony or conceal their taste.

## Extract of Liquorice.

R. Liquorice root, in coarse powder, one pound. Distilled water, five pounds.

Macerate the root with one-half the water for twelve hours, then with the other half for six hours, express, strain, heat to 212°, strain, and evaporate by a water-bath to a

pillular consistence. Brit. Ph.

Ph. Germ. proceeds nearly in like manner. Paris Codex exhausts with cold water by percolation, and otherwise proceeds as above. Other pharmacopæias recognize the commercial extract, which is made on the large scale by boiling the root with water, straining, and evaporating.

## Refined Liquorice.

R. Commercial liquorice, at will. Pack in a suitable vessel alternately with layers of washed straw, cover with cold water, macerate for thirty-six hours, draw off the clear liquid, repeat the maceration until exhausted, and evaporate to the consistence of an extract.

This is the purified liquorice juice of Ph. Germ. Preferable for mixtures, on account of its complete solubility in water,

to the powdered liquorice.

## Liquorice Paste.

R. Extract of liquorice, Gum Arabic, Sugar, Water,

one part. two parts. one part. six parts.

Dissolve the extract in the water, afterwards the gum and sugar; evaporate to the consistence of a pill mass; roll this into thin sheets upon an oiled slab, cut into small pieces, and dry.

Paris Codex.

This is the black liquorice paste; in a similar manner is prepared the brown liquorice paste from the following ingre-

dients :-

R. Extract of liquorice, one part.

Water, twenty-five parts.

Gum Arabic, fifteen parts.

Sugar, ten parts.

Extract of opium, one hundredth

part.

In liquorice paste, Ph. Germ., the opium is omitted.

## Lozenges of Liquorice.

R. Extract of liquorice,
Gum Arabic, each,
Sugar,
Dissolve in sufficiency of boiling water,
evaporate on water-bath, to proper consistence for lozenges.

Ed. Ph.

### Lozenges of Liquorice and Opium.

R. Powdered extract of opium, twenty-four grains. Powdered liquorice,

two troyounces.

"gum Arabic,

one troyounce.

"sugar, three troyounces.
Oil of anise, fifteen minims.
Mix the powders well, add the oil of anise,

form mass with water, and divide into four hundred and eighty troches. U. S. Ph.

a grain of extract of opium.

R. Powdered liquorice, ) each,

gum Arabic, two sugar, drachms. opium, six grains. Oil of anise. four drops.

Mix, and with sufficient water form mass, and divide into sixty lozenges. These are known as Dr. Wistar's cough lozenges.

Both the above are demulcent and anodyne, and are well suited to allay cough, where opium is permissible.

## Compound Liquorice Powder.

R. Liquorice root, Senna, each, two parts. Fennel, Purified sulphur, each, one part. six parts. Mix the powders thoroughly. Ph. Germ. A mild aperient and demulcent.

#### Fluid Extract of Liquorice Root.

R. Liquorice root, in powder,

sixteen troyounces. No. 60, three fl. ounces. Glycerin, Water, five fl. ounces. eight fl. ounces. Alcohol,

Mix the liquids, moisten the powder with four fl. ounces of the mixture, pack into a percolator, add the remaining mixture, and macerate for four days. Then displace with diluted alcohol twenty-four fl. ounces, reserving the first fourteen, add to the remainder one fl. ounce of glycerin, evaporate to two fl. ounces, and mix with reserved U. S. Ph. portion.

#### Mixture of Liquorice.

R. Powdered liquorice, one drachm. one fl. ounce. Chamomile water, Syrup of mallow, four fl. ounces. Mix. In spoonful doses, to allay cough.

#### Compound Mixture of Liquorice.

R. Powdered liquorice, ) each, gum Arabic, half an Sugar, ounce. Paregoric, two fl. ounces. Antimonial wine, one fl. ounce. Spirit of nitrous ether, half a fl. ounce. Water,

Each lozenge contains one-twentieth of | Rub the liquorice, gum, and sugar with the water gradually poured on them; then add the other ingredients and mix. U.S. Ph.

R. Powdered liquorice,

gum Arabic,

two drachms. each, four fl. ounces. Boiling water,

Mix, and dissolve, then add

Spirit of nitrous ether,

Antimonial wine,

each, one fl. drachm.

Tincture of opium,

forty to fifty drops.

A tablespoonful occasionally, in catarrh.

These mixtures are well known under the name of Brown mixture.

## Syrup of Liquorice Root.

R. Cut Russian liquorice

root, four parts. Water, eighteen parts.

Macerate over night, express, boil, strain, and evaporate to obtain after filtration seven parts. Add

Refined sugar,

Clarified honey, each,

twelve parts.

Dissolve. A pleasant addition to expectorant and demulcent mixtures. Ph. Germ.

## Compound Syrup of Liquorice.

R. Liquorice root, two ounces. Maidenhair, one ounce. half an ounce. Hyssop, Water, two pints.

Infuse for twenty-four hours, boil to onehalf, and add to strained decoction,

Honey, eight ounces. sixteen ounces. Sugar, Rose water, four fl. ounces.

Make a syrup. As a cough mixture in Spielmann. spoonful doses.

## GOSSYPIUM.

## COTTON

Is the down or hair attached to the seeds of Gossupium herbaceum, and other species of the genus. It consists of fine, white filaments, having neither odor nor taste, and is insoluble in water, alcohol, ether, the oils, etc., but is soluble in strong alkaline solu-

Sex. Syst. Monadelph. polyand. Nat. Syst. twelve fl. ounces. Malvaceæ.

Linn. Sp. Pl. 845. Griffith, Med. Bot. 162. It is principally used for the fabrication of cloth, but is also employed in medicine, as an application to recent burns and scalds, to erysipelas, and to parts affected with rheumatism. It should be applied in the form of thin sheets. The seeds furnish much oil.

## Pyroxylon. (Soluble Gun Cotton.)

R. Cotton freed from im-

purities, half a troyounce. Nitric acid, three troyounces and a half.

Sulphuric acid, four troyounces. Mix the acids gradually, reduce the temperature to 90°, add the cotton, imbue it thoroughly with the acid, and macerate for fifteen hours; then wash it thoroughly, first with much cold water, afterwards with hot water, drain and dry.

If acids of the officinal strength cannot be

obtained, use for the cotton

Nitrie acid, sp. gr. 1.382

to 1.390, four troyounces.

Sulphurie acid, sp. gr.

ten troyounces, 1.833,

and proceed as above.

U. S. Ph. and Ph. Germ.

R. Cotton, one ounce.

Sulphurie acid.

Nitric acid, each, five fl. ounces. Mix the acids in a mortar, immerse the cotton, stir it well for three minutes, wash and dry as directed above. Brit. Ph.

R. Cotton, one part. Nitric acid, ten parts. Sulphuric acid, twenty parts. Mix the acids, cool to 86°, immerse the cotton, macerate for one or two days at a temperature below 95°, wash, and dry.

Paris Codex.

#### Collodion.

R. Pyroxylon, two hundred grains. Stronger ether, twelve fl. ounces and a half. Stronger alcohol, three fl. ounces and a half.

Dissolve the gun cotton in the mixed liquids. U. S. Ph.

R. Pyroxylon, one ounce. Ether, thirty-six fl. ounces. twelve fl. ounces. Alcohol, Dissolve. Brit. Ph.

#### Flexible Collodion.

R. Collodion. a pint. Canada turpentine, three hundred and twenty grains. Castor oil, one hundred and sixty grains. U. S. Ph. Mix.

R. Collodion, six fl. ounces. one hundred and Canada balsam, twenty grains. one fl. drachm. Castor oil, Brit. Ph.

Mix.

R. Gun cotton, Castor oil, each, seven parts. Stronger alcohol, twenty-two parts.

ether, sixty-four parts.

Paris Codex. Dissolve and mix. These preparations are much used in dressing wounds, the film left after the evaporation of the liquid uniting the edges of the wound and preserving it from contact with the air. The former preparation leaves a strongly contractile film, which is liable to crack.

## GOSSYPII RADICIS CORTEX.

#### BARK OF COTTON ROOT.

Obtained from Gossypium herbaceum. The root is considered to be an active emmenagogue, which property resides in the bark.

#### Decoction of Cotton Root.

R. Cotton root, four ounces. Water, one quart. Boil down to a pint. Said to be as effectual as ergot in promoting uterine contraction. Dose, a wineglassful every twenty or thirty minutes. Bouchelle.

#### Fluid Extract of Cotton Root Bark.

R. Cotton-root bark, in powder

sixteen troyounces. No. 80, Glycerin, three fl. ounces. Water, five fl. ounces. Alcohol, eight fl. ounces.

Mix the liquids, moisten the powder with five fl. ounces of the mixture, pack into a percolator, add the remaining liquid, and macerate four days. Then, with diluted alcohol displace twenty-four fl. ounces, reserving the first fourteen, add to the remainder one fl. ounce of glycerin, evaporate to two fl. ounces, and mix with reserved portion. U. S. Ph.

Dose, ten to thirty minims.

## GRANATUM.

#### POMEGRANATE.

The Punica granatum, a small tree, a native of, and cultivated in warm climates, and much esteemed for its subacid fruit, affords two articles employed medicinally, the rind of the fruit, and the bark of the root.

Sex. Syst. Icosand. monog. Nat. Syst. Myrtaceæ.

Linn. Sp. Pl. 676. Griffith, Med. Bot. 294. The rind, as found in the shops, is in fragments of a dry, hard, brittle consistence; of a yellowish or reddish-brown color, inodorous, and of an astringent, somewhat bitter taste. The bark of the root is in small pieces, of an ash-gray or yellowish color, externally, yellow within; brittle, with scarcely any odor, and an astringent, but not bitter taste. The rind is a good astringent, in doses of ten to thirty grains; and the bark of the root, an efficient vermifuge, especially in a fresh, or recently-dried state.

## Decoction of Pomegranate Rind.

R. Pomegranate rind, two ounces.
Distilled water, a pint and a half.
Boil to a pint, and strain.
Lond. Ph.
Dose, one fl. ounce. As an astringent.

## Gargle of Pomegranate Rind.

R. Pomegranate rind, half an ounce.
Red roses, two drachms.
Boiling water, six fl. ounces.
Infuse, strain, and add

Clarified honey, one fl. ounce.
Alum, two drachms.
Used as a gargle, in inflammation of the

fauces and throat.

Ellis.

## Injection of Pomegranate Rind.

R. Pomegranate rind, one part. Water, thirty-two parts. Boil away one-half. Béral.

## Decoction of Pomegranate Root.

R. Bark of pomegranate

root, two ounces. Water, two pints.

Boil to a pint, and strain. Dose, one to two fluidounces. As a vermifuge, in cases of tænia.

Brit. Ph.

## Extract of Pomegranate Root.

R. Bark of pomegranate root, at will.
Diluted alcohol, sufficient.

Macerate for a week, distil off the alcohol, and evaporate the residue to proper consistence.

Soubeiran.

## Electuary of Extract of Pomegranate Root.

R. Extract of pomegranate
root, six drachms.
Gum tragacanth, sufficient.
Lemon juice, two fl. ounces.
Linden water, three fl. ounces.
Mix. One-half to be taken, and half an hour afterwards the remainder. Radius.

## Mixture of Extract of Pomegranate Root.

R. Extract of pomegranate
root, six drachms.
Lemon juice,
Mint water,
Linden water,

two fl. ounces.

Mix. One-fourth to be taken every quarter of an hour. Radius.

## Bolus of Pomegranate Root.

R. Powdered bark of pomegranate root, one drachm.
Powdered red Peruvian
bark, two drachms.
Copaiba, sufficient.
Mix, and form twelve boluses. One, morn-

Mix, and form twelve boluses. One, morning and evening, in chronic mucous discharges.

Radius.

R. Powdered bark of pomegranate root, one drachm.
Assafetida, half a drachm.
Croton oil, four drops.
Syrup, sufficient.

Mix, and make fifteen boluses. Five a day, in the treatment of tænia. Foy.

## GRATIOLA.

#### HEDGE HYSSOP.

Most of the species of this genus have active properties, but only one of them has been employed in medicine; the *G. officinalis* of Europe. A native species, the *G. aurea*, is possessed of identical properties, which, in both cases, depend on the presence of gratiolin.

Sex. Syst. Diand. monog. Nat. Syst. Scrophulariaceæ.

Root.

ot, at will.

othe alcohol, proper conSoubeiran.

Linn. Sp. Pl. 24. Griffith, Med. Bot. 518.

The whole plant is used; it is almost inodorous, but has a bitter, nauseous taste.

It is a drastic cathartic and emetic, with some diuretic properties. It has been stated that it forms the basis of the Eau medicinale de Husson. The dose of the powder is from ten to twenty grains.

## Extract of Hedge Hyssop.

R. Fresh hedge hyssop, twenty parts.

Bruise in a stone mortar, adding some water, express, evaporate to two parts, mix with equal weight of alcohol, filter, and evaporate. Dose, one to ten grains. *Ph. Germ.* 

## Compound Powder of Hedge Hyssop.

R. Powdered hedge hyssop, two scruples.

Calomel, five grains.

Assafetida, half a drachm.

Oil of peppermint, three drops.

Mix, and divide into two powders. One to be taken every three hours, in tænia.

Augustin.

## Wine of Hedge Hyssop.

R. Dried herb of hedge
hyssop, one ounce.
Contused root of hedge
hyssop, half an ounce.

White wine, sixteen fl. ounces.

Macerate for eight days, with a gentle heat, and strain. A tablespoonful at bedtime, drinking after it half a pint of beef-tea. If necessary, repeat next evening. Perkins.

Said to be the original recipe for the

Eau médicinale.

## GUAIACUM.

## GUAIACUM.

The Guaiacum officinale, a large tree, a native of the West Indies and some parts of South America, affords two medicinal products; the wood and resin.

Sex. Syst. Decand. monog. Nat. Syst. Zy-

gophyllaceæ.

Linn. Sp. Pl. 546. Griffith, Med. Bot. 203. The wood (lignum vitæ) is very hard, of a greenish-brown color, of a bitterish, somewhat acrid taste, and of a faint smell, except when heated. The resin is of a greenish, or dark-olive color, of a feeble odor, and of an acrid taste. They both are stimulant and alterative, and have been much used in chronic rheumatism, gout, obstinate cutaneous affections, amenorrhæa, etc. The dose of the resin is from ten to thirty grains.

## Wood Species.-Wood Tea.

R. Rasped guaiacum, four parts.
Root of Ononis spinosa,
Burdock, each, two parts.
Liquorice root,
Sassafras root, each, one part.

Cut them separately, then mix. Ph. Germ. Used as an alterative.

## Compound Decoction of Guaiacum Wood.

R. Guaiacum shavings, three ounces.
Raisins, two ounces.
Sassafras root, rasped,
Liquorice root, bruised,
each, one ounce.

Water, eight pints.

Boil the guaiacum and raisins in the water,
down to five pints, adding the other ingre-

down to live plans, adding the other ingredients, towards the close of the operation.

Strain.

Ed. Ph.

This is the old decoction of the woods.

From one to two pints may be taken, during the day, in divided doses, as an alterative in chronic rheumatism and cutaneous dieases.

R. Rasped guaiacum wood, two drachms.

Water, sufficient to obtain one pint of strained decoction.

After an hour's boiling, add

Wine of colchicum seed, two drachms.

A wineglassful every two hours, in chronic pains of the joints. Radius.

#### Extract of Guaiacum Wood.

R. Powdered guaiacum wood, at will. Exhaust with boiling water, by means of a displacement apparatus, and evaporate.

Van Mons.

## Oil of Guaiacum Wood.

R. Guaiacum wood, at will.

Distil on a sand-bath, separate the oil, and rectify it. Dose, four to five drops, in gonorrhœa; also as a friction in rheumatism.

Taddei.

## Compound Oil of Guaiacum.

R. Oil of guaiacum, three ounces.

Balsam of Peru, one ounce.

Ammoniated alcohol, half an ounce.

Mix. In caries of the teeth, and as a dressing to malignant ulcers. Swediaur.

#### Compound Powder of Guaiacum.

R. Powdered resin of guaiacum, two drachms.

Cream of tartar, half an ounce. six drachms.

Mix. Three teaspoonfuls a day, in gout. Phæbus.

R. Powdered resin of guaiacum, nitrate of potassium, each, one drachm. Powdered ipecacuanha, three grains. two grains. opium, Mix, and divide into six powders. One, every three hours, as a stimulating diaphoretic in acute rheumatism, after reduction of inflammation.

## Pills of Guaiacum and Turpentine.

R. Powdered resin of guaiacum, one drachm. Venice turpentine, sufficient. Mix, and make fifteen pills. One, three times a day, in gleet and leucorrhœa.

## Pills of Guaiacum, Aloes, etc.

R. Powdered guaiacum resin, one drachm. Powdered aloes, thirty-six grains. rhubarb, two drachms. Canada balsam, sufficient. Form mass, and divide into forty-eight pills. One, every three hours, as a stimulating cathartic.

#### Pills of Guaiacum, Antimony, etc.

R. Powdered resin of guaiacum, Golden sulphuret of antimony, each, half a drachm. Calomel, ten grains. Extract of dandelion, sufficient. Form mass, and divide into three-grain pills. Three to four, three times a day, in painful affections of the joints.

Hildebrand.

#### Pills of Guaiacum, Sulphur, etc.

R. Powdered resin of half an ounce. guaiacum, Washed sulphur, one ounce. Crude antimony, one drachm and a half.

Extract of blessed sufficient. thistle,

Form mass, and make pills of two grains. Ten, three times a day, in gout, rheumatism, and obstinate cutaneous affections.

## Mixture with Guaiacum, etc.

R. Powdered resin of two drachms. guaiacum, Powdered nitrate of potassium, one drachm and a half. Powdered gum Arabic, one drachm. Powdered tartar emetic, one grain. liquorice, one scruple. Distilled or mint water, eight 1. ounces.

Mix. A tablespoonful, three or four times a day, in rheumatism, etc.

#### Guaiacum Mixture.

R. Resin of guaiacum, half an ounce. Sugar, each, Powdered gum Arabic, drachms. one pint. Cinnamon water, Rub the resin with the sugar and gum Arabic, and gradually add the cinnamon water while rubbing. Brit. Ph. One to three tablespoonfuls, two or three times a day.

### Mixture of Guaiacum and Bittersweet.

R. Powdered resin of two drachms. guaiacum, Powdered gum Arabic, three drachms. Extract of bittersweet, three drachms. Syrup of mallow, one fl. ounce. Distilled water, seven fl. ounces. Mix. A tablespoonful every three hours, in chronic rheumatism. Berends.

## Tincture of Guaiacum.

Guaiacum resin, in powder, six troyounces. No. 40, sufficient. Alcohol, Mix guaiacum with an equal bulk of sand, pack in a percolator, cover with a layer of sand, and obtain by displacement two pints. U. S. Ph.

R. Resin of guaiacum, bruised, one part. five parts. Alcohol,

Digest for eight days, and filter. Paris Codex and Ph. Germ.

Dose, one to three fl. drachms, three or four times a day, in gout and chronic rheu-Quarin. matism; to be given in milk or mucilage.

### Dewees's Tincture.

R. Powdered resin of
guaiacum, four ounces.
Carbonate of sodium
or potassium, one drachm
and a half.
Powdered pimento,
Diluted alcohol, one pint.

Digest for a few days. Add volatile spirit of ammonia, if required, in proportion of one or two drachms to each four ounces of tincture. Highly praised in idiopathic amenorrhœa, in doses of a teaspoonful, three times a day, in milk or wine.

Dewees.

## Tincture of Guaiacum and Corrosive Sublimate.

R. Resin of guaiacum,
Canada balsam, each,
Corrosive sublimate,
Oil of sassafras,
Alcohol,
Digest for several days, and filter.
Dose, ten to twenty minims.
Known as tincture anticrid.

Maryland Coll. Ph.

#### Ammoniated Tincture of Guaiacum.

R. Powdered resin of
guaiacum, six troyounces.
Aromatic spirit of
ammonia, two pints.
Macerate for seven days, and filter.

U. S. Ph.
The tincture of Brit. Ph. is nearly identical with this.

R. Powdered resin of
guaiacum, three parts.
Alcohol, ten parts.
Water of ammonia, five parts.
Macerate for a week, and filter. Ph. Germ.
Dose, one to two fl. drachms, two or three times a day, in chronic rheumatism.

## Ammoniated Tincture of Guaiacum and Copaiba.

R. Ammoniated tincture
of guaiacum, one fl. ounce.
Copaiba, half fl. ounce.
Mix. A teaspoonful two or three times a
day, in amenorrhœa with general debility.

Ellis.

## Ammoniated Tincture of Guaiacum and Paregoric.

R. Ammoniated tincture
of guaiacum, one fl. ounce.
Camphorated tincture
of opium, one fl. ounce.

Mix. Two teaspoonfuls every two hours, in misplaced and retrocedent gout. Ellis.

## Odontalgic Mixture of Guaiacum.

R. Tincture of guaiacum, six fl.
drachms.
Oil of valerian, one fl. ounce.
Syrup of scurvy grass,
Compound tincture
of benzoin, each, two fl. drachms.
Tincture of opium, one fl. drachm.
Mix. A teaspoonful mixed with hot water,
to be held in the mouth, in toothache.

Carus

## Mixture of Tincture of Guaiacum and Henbane.

R. Tincture of guaiacum, two fl. drachms.

"henbane, one fl. drachm.

Mix. Twenty to thirty drops, morning and evening, in spasm of the stomach and neuralgia. Radius.

## GUTTA-PERCHA.

## GUTTA-PERCHA.

It is the hardened milk juice of *Isonandra gutta*, a magnificent tree of the Malayan archipelago, and belonging to the order of *Sapotacea*. Gutta-percha is somewhat related to caoutchouc and contains several resins, an acid, and casein; it is hard at the ordinary temperature, but softens and becomes plastic and somewhat elastic when heated; its best solvents are chloroform and oil of turpentine. It is mostly employed in surgery, in the formation of splints, and for bougies and pessaries.

## Solution of Gutta-percha.

R. Gutta-percha in
thin slices, one troyounce
and a half.
Chloroform, seventeen troyounces.
Carbonate of lead,
in powder, two troyounces.

twelve troyounces of chloroform, add the colored solution. carbonate previously mixed with the refor half an hour, set aside for ten days, collodion.

Dissolve the gutta-percha, by agitation, in | and decant the limpid, colorless or straw-

It leaves, on evaporation, a tenacious maining chloroform, agitate occasionally film, and is used for similar purposes as

## H.

## HÆMATOXYLON.

## Logwood.

This is the heart wood of Hamatoxylon campechianum, a middle-sized tree, a native of Campeachy, and naturalized in several of the West India Islands. It is principally used for dyeing purposes, but is also employed in medicine.

Sex. Syst. Decand. monog. Nat. Syst. Faba-

ceæ.

Linn. Sp. Pl. 549. Griffith, Med. Bot.

It comes in logs of a dark-yellowish color externally, and deep red internally; for medical use, it is chipped or rasped. It has a feeble but peculiar odor, and a sweetish, somewhat astringent taste. It is used as a mild astringent in chronic diseases and relaxed conditions of the bowels.

## Infusion of Logwood.

R. Rasped logwood, half an ounce. Boiling water, one pint. Infuse for two hours, and strain. A tablespoonful every two or three hours, in cholera and diarrhœa of children. Ellis.

## Decoction of Logwood.

R. Rasped logwood, one troyounce. Water, two pints. Boil down to a pint, and strain. U. S. Ph.

R. Logwood in chips, one ounce. Cinnamon in coarse

powder, sixty grains. Distilled water, one pint (imper.). Boil for ten minutes, adding cinnamon towards the end, strain, and add water upon strainer to obtain one pint. Brit. Ph.

A good astringent in diarrhoa, especially in children. Dose for an adult, two fl. ounces; for a child about two years of age, two or three fl. drachms, several times a day.

#### Extract of Logwood.

R. Rasped logwood, one pound. Water,

Boil to four pints, strain while hot, then evaporate to proper consistence.

U. S. Ph. and Brit. Ph. Dose, from ten to thirty grains.

Electuary of Extract of Logwood.

R. Extract of logwood,

liquorice,

each, two drachms.

Peruvian

bark, three drachms. cascarilla, one drachm.

Mucilage of quince-seed, sufficient. Mix. A teaspoonful three times a day, in chronic diarrhœa, etc. Radius.

## Mixture of Extract of Logwood.

R. Extract of logwood, three drachms.

Boiling water, seven fl. ounces. Dissolve, strain, and add

Tincture of cinnamon, six fl. drachms.

> catechu, two fl. drachms.

Mix. Dose, one fl. ounce every six hours. Beasley.

R. Extract of logwood, three drachms.

Tincture of catechu, two fl. drachms.

seven fl. ounces. Water, Mix. Two spoonfuls every three or four hours. In diarrhœa and dysentery. Ellis.

R. Extract of logwood, three drachms. Spirit of cinnamon, one fl. ounce

and a half.

seven fl. ounces. Water, Tincture of kino, two fl. drachms.

Mix. In the same doses, and in the same one gallon. diseases, as the last. Swediaur.

## HAMAMELIS.

### WITCH HAZEL.

The Hamamelis Virginica is a large native shrub, found along streams in most parts of the country, presenting several varieties.

Sex. Syst. Tetrand. digyn. Nat. Syst.

Hamameliaceæ.

Pursh, Fl. Am. i. 116. Griffith, Med.

Bot. 350.

The parts used are the bark and leaves. These are bitter and astringent, leaving a sensation of sweetness. They are considered sedative, astringent, and tonic, and useful in bowel affections and hemorrhages, and externally as an application to tumors, painful hemorrhoids, etc. They are used in infusion, decoction, or poultice.

### HEDEOMA.

#### PENNYROYAL.

Hedeoma pulegioides is a small, annual, aromatic plant, abundant in most parts of the United States, growing in dry, sterile situations.

Sex. Syst. Diand. monog. Nat. Syst. Lami-

Persoon, Synop. ii. 131. Griffith, Med.

The whole plant is used. It has a warm, pungent taste, and a powerful aromatic odor. It is a stimulating aromatic, used to obviate nausea, and relieve flatulence, and also, in domestic practice, as an emmenagogue.

#### Infusion of Pennyroyal.

R. Pennyroyal, two drachms. Boiling water,

to afford six ounces of strained infusion. To be taken freely, in a warm state, at bedtime, the feet having been previously bathed in hot water, in amenorrhœa.

Oil of Pennyroyal.

R. Pennyroyal, at will. Water, sufficient Distil, and collect the oil. Dose, two to ten drops, in flatulent colic and nausea.

#### HELENIUM.

#### SNEEZEWORT.

Sneezewort, or Helenium autumnale, is an indigenous plant, found in wet situations, in most parts of the United States, flowering in the autumn.

Sex. Syst. Syngen. super. Nat. Syst. Aste-

Torrey & Gray, Fl. ii. 384. Griffith, Med. Bot. 398.

This plant is almost inodorous, but has a bitter, somewhat pungent, acrid taste. It is tonic, diaphoretic, and powerfully errhine; this latter property is most developed in the flowers, and especially the central florets; these, when powdered, may be used in those cases to which errhines are applicable. It is said that the plant is poisonous to horses.

## HELIANTHEMUM.

#### FROSTWEED.

The Helianthemum Canadense is a native perennial plant, growing in many parts of the United States, in dry, sandy soils.

Sex. Syst. Polyand. monog. Nat. Syst. Cis-

Mich. Fl. i. 308. Darlington, Fl. Cest. 313. It has little or no odor, but an astringent, somewhat aromatic, bitterish taste. It is tonic and astringent, and has proved beneficial in scrofula.

#### HELLEBORUS.

#### BLACK HELLEBORE.

Several species of Helleborus are possessed of almost identical medical properties, but the only one used in this country is H. niger, so called on account of the color of its roots. It is a native of mountain woods, in many parts of Europe, and is cultivated as an ornamental flowering plant. H. viridis has similar properties and is preferred by European authorities.

Sex. Syst. Polyand. polyg. Nat. Syst. Ra-

nunculaceæ.

Linn. Sp. Pl. 783. Griffith, Med. Bot. 85. The parts used are the rhizome with the small fibres or roots, which are about as thick as straw, black, and have a somewhat nauseous odor and a bitter, unpleasant, acrid taste. Black hellebore is a drastic hydragogue purgative ; having, also, considerable emmenagogue powers. The dose in powder is from ten to twenty grains, as a purge; two or three grains as an alterative.

#### Compound Black Hellebore Pills.

R. Powdered black hellebore.

fifteen grains. Calomel, five grains. Powdered ipecacuanha, three grains.

Syrup of ginger, sufficient. Mix, and make four pills. Two to be taken every four hours, in dropsy, till full purgation is caused. Ainslie.

#### Extract of Black Hellebore.

R. Black hellebore, in powder, twelve troyounces. No. 60, Alcohol, a pint. sufficient. Diluted alcohol,

Displace first with alcohol, then with diluted alcohol, until three pints of tincture have been obtained. Evaporate the first pint spontaneously to three fl. ounces, and the remainder at or below 160° to a syrupy consistence; mix the two portions and evaporate at 120° to the proper consistence. U. S. Ph.

Dose, ten to fifteen grains, as a drastic purge.

## Vino-Alcoholic Extract of Black Hellebore.

R. Powdered black hellebore, two pounds. Carbonate of potassium, half a pound.

Diluted alcohol, eight pints. Macerate for twelve hours, express, and pour on the residuum,

White wine, eight pints. Digest for twenty-four hours, express, mix the two tinctures, and evaporate.

Cottereau.

Dose, ten to fifteen grains.

#### Compound Pills of Extract of Black Hellebore.

R. Vino-alcoholic extract of black hellebore, Extract of myrrh, each, two ounces.

Powder of blessed thistle. one ounce. Beat together, and form pills of one grain.

Ten to twenty a day, in amenorrhœa, Radius. dropsy, etc.

These pills are much used in Europe, under the name of Bacher's pills.

R. Extract of black hellebore. each, Assafetida, two drachms. Ammoniac, Soap, Rhubarb, sufficient.

Beat into mass, and form pills of two grains. Dose, ten to twelve, morning and evening, as a purgative and emmenagogue.

Augustin.

#### Tincture of Black Hellebore.

R. Black hellebore, in powder, No. 50, four troyounces. Diluted alcohol, sufficient. Obtain by displacement two pints.

Used as an emmenagogue, in doses of thirty drops to a fl. drachm, night and morning, watching its action.

#### Mixture with Tincture of Black Hellebore.

R. Tincture of black

hellebore, half a fl. ounce. Tincture of myrrh, one fl. ounce. Spanish flies,

two fl. drachms.

Mix.

Thirty drops, three times a day, in sugar and water, as an emmenagogue.

## Compound Wine of Black Hellebore.

R. Bruised black hellebore, one ounce. wormwood, a handful. White wine, four pints. Macerate for three days, express, and filter. Two to three spoonfuls in the morning, fasting. In dropsy. Brunner.

#### Ointment of Black Hellebore.

R. Powdered black

hellebore, one to two drachms. one ounce.

Mix. As an application to obstinate herpetic eruptions. Soubeiran.

## HEMIDESMUS.

#### INDIAN SARSAPARILLA.

The H. indicus is a native of many parts of India. It is a climbing plant, and has been long used in the East as an efficient medicinal agent; but was almost unknown in Europe, or this country, until about 1819. Sex. Syst. Pentand. digyn. Nat. Syst. As-

clepiadaceæ. Brown, Hort. Kev. ii. 75. Griffith, Med.

Bot. 453.

The root, which is the part used, is long, tortuous, rugose, with longitudinal furrows; it is brownish externally, and has a peculiar and somewhat aromatic odor, and a bitter-It has the properties of sarsapaish taste. rilla; and like it, is given in infusion, decoction, etc. These are made in the same manner as those of sarsaparilla, and given in the same doses, and in similar diseases.

#### Syrup of Hemidesmus.

R. Indian sarsaparilla, four ounces. Boiling water, one pint. twenty-eight ounces. Infuse the root in the water for four hours, U. S. Ph. strain, decant, and dissolve the sugar. The product should weigh forty-two ounces, and have the sp. gr. 1.335.

Dose, one fl. drachm.

Brit. Ph.

#### Mixture of Hemidesmus.

R. Indian sarsaparilla, ten drachms. Extract of liquorice, ten grains. Distilled water, ten fl. ounces.

Digest for twelve hours, strain, heat to 180°, and again strain. One-third, three times a day.

Beasley.

R. Syrup of hemidesmus,

five ounces.

Solution of potassa,

half to one fl. drachm.
Orange-flower water, one fl. ounce.
Mix. One fl. ounce, thrice a day, in barleywater. For gonorrhea.

Bellinarye.

#### Infusion of Hemidesmus.

R. Indian sarsaparilla, two ounces.

Lime water, one pint.

Infuse in a close vessel for twelve hours.

Dose, a wineglassful.

Ashburner.

#### Decoction of Hemidesmus.

R. Indian sarsaparilla, two ounces.

Water, one pint and a half.

Boil down to one pint. To be taken during the day, in wineglassful doses. Pereira.

## HEPATICA.

#### LIVERWORT.

The H. triloba is a small native plant, found in most parts of the United States, and also in the northern regions of Europe and Asia, having three-lobed leaves, and presenting two marked varieties: one with the lobes of the leaves rounded, the other with them acute.

Sex. Syst. Polyand. polyg. Nat. Syst. Ra-

nunculaceæ.

Torrey & Gray, Fl. i. 14. Griffith, Med.

Bot. 81.

The whole herb is used. It is inodorous, and has a mucilaginous, slightly astringent and bitterish taste. It is a very mild, demulcent tonic and astringent, and was much employed at one time as a deobstruent in herpetic affections, and also as a remedy in diseases of the lungs. Its powers, however, are very slight. It is given in infusion; to be taken freely.

#### HERACLEUM.

#### MASTERWORT.

This is the root of Heracleum lanatum, a very large, perennial plant, found in many parts of the United States, in waste places.

Sex. Syst. Pentand. digyn. Nat. Syst. Api-

aceæ.

Torrey & Gray, Fl. i. 632. Griffith, Med.

Bot. 335.

The part used is the root; this resembles the parsnip in appearance, but has a rank, unpleasant odor, and a pungent, acrid taste. It is said to be diuretic, expectorant, and antispasmodic, and has proved useful in epilepsy, attended with a disordered condition of the digestive organs, in doses of two or three drachms daily. It is also used in strong decoction, in dyspepsia with flatulence and cardialgia.

## HEUCHERA

## ALUM ROOT.

Most of the species of *Heuchera* are possessed of identical properties, but the only one recognized by the U. S. Pharmacopæia is *H. Americana*. This is an indigenous plant, growing in shady, rocky situations, in most parts of the country.

Sex. Syst. Pentand. digyn. Nat. Syst. Saxi-

fragaceæ.

Torrey & Gray, Fl. i. 578. Griffith, Med.

Bot. 313.

The root is rugose, irregular, reddish, almost inodorous, and of a strong, styptic taste. It is a powerful astringent, and may be employed in such cases as require medicines of this class.

#### HIPPOCASTANUM.

## HORSE CHESTNUT.

The horse chestnut, or *Esculus hippocastanum*, is a beautiful and lofty tree, a native of the central parts of Asia, but extensively cultivated in Europe, and the United States.

Sex. Syst. Heptand. monog. Nat. Syst. Sapindaceæ.

Linn. Sp. Pl. 488. Griffith, Med. Bot.

213

The part used is the bark; this is light, brittle, of a brownish-red externally, of a yellow-brown within. It has a somewhat aromatic odor, and an astringent, bitter taste. It is a somewhat active astringent, and has been much praised in intermittent fevers. The dose of the powder is two to four scruples, every three hours, till an ounce and a half is taken.

#### Compound Powder of Horse Chestnut.

R. Powdered horse chestnut bark, willow bark,

each, half an ounce.

Powdered gentian, calamus, cloves, each, two drachms.

Mix.

Hufeland.

Decoction of Horse Chestnut Bark.

R. Horse chestnut

bark, one ounce and a half.
Water, thirty fl. ounces.
Boil down to ten ounces, adding towards
close of operation,

Liquorice root, one drachm.

Strain. A cupful every two hours.

Niemann.

#### Compound Decoction of Horse Chestnut.

R. Horse chestnut bark,
Willow bark, each, half an ounce.
Calamus,
Root of water avens,
each,
water, two drachms.
Water, sixteen fl. ounces.
Boil down to one-half.
Spielmann.

R. Horse chestnut

bark, one ounce and a half.
Water, eighteen fl. ounces.
Boil down to one-half, strain, and add
Ether, one to two drachms.
Syrup of orange-peel, one ounce.
Mix. To be used during the apyrexia.

Phæbus.

### Extract of Horse Chestnut.

R. Horse chestnut bark, at will. Water, sufficient. Exhaust the bark in a displacement apparatus, and evaporate to proper consistence. Dose, five to fifteen grains. Van Mons.

## HORDEUM.

#### BARLEY.

There are several species of *Hordeum*, but those usually cultivated in this country are *H. vulgare* and *H. distichon*, the latter of which is recognized as officinal. The native country of these is unknown, but they have been cultivated from the earliest ages.

Sex. Syst. Triand. digyn. Nat. Syst. Gra-

minaceæ.

Linn. Sp. Pl. 125. Griffith, Med. Bot. 664. The seeds are used in various forms; in that of meal, malt, pearl barley, etc. They are one of the mildest and least irritating

of the cerealia, and are much used in decoction, etc., as a nutritive and demulcent drink.

## Prepared Barley Meal.

R. Barley meal, at will.

Tie it in a linen or cotton cloth, and boil it for twelve hours, then let it cool, remove the outer crust, and pulverize the centre.

A useful diet, boiled with milk, in bowel diseases.

Hanover Ph.

R. Barley meal, twelve ounces.
Sugar, four ounces.
Powdered cinnamon.

half a drachm.

Mix, and place in a proper vessel, covering with wheat dough, put in an oven and bake, remove, cool, and pulverize. Half an ounce to two ounces, cooked with water or milk, form an excellent diet, in debilitated conditions of the system.

Taddei.

## Barley Sugar.

R. Decoction of
barley,
Sugar,
Boil to proper consistence, and form lozenges or rolls.

As a demulcent in catarrh.

Giordano.

#### Decoction of Barley.

R. Pearl barley, two ounces.
Water, sufficient.
Wash the barley in cold water, drain, pour

on it half a pint of the water, boil for a short time, drain off this water, add four pints of boiling water, boil down to two pints, and strain.

U. S. Ph.

The process of Brit. Ph. is nearly the

As a nutritive and demulcent drink in febrile and inflammatory diseases.

#### Compound Decoction of Barley.

R. Decoction of barley, two pints. Sliced figs, two ounces and a half. Bruised liquorice

root, five drachms.

Stoned raisins,

Water, two ounces and a half. one pint.

Mix, and boil down to two pints, and strain.

Lond. Ph.

A demulcent, nutritive, and somewhat laxative drink.

# Barley Water with Nitrate of Potassium.

R. Decoction of barley, one pint. Nitrate of potassium,

Lemon juice, two drachms. one fl. ounce.

Mix. To be used warm as a diaphoretic drink.

## HUMULUS.

#### Hops.

By this is meant the strobiles of the *Humulus lupulus*, a climbing vine, a native of Europe, and probably of this country. It is extensively cultivated for its aments or strobiles, which are largely employed in the preparation of malt liquors, and also in medicine.

Sex. Syst. Dicec. pentand. Nat. Syst. Cannabinaceæ.

Linn. Sp. Pl. 1457. Griffith, Med. Bot.

Hops consist of thin, somewhat translucent, leaf-like scales, of a greenish-yellow color, having, near their base, two small, round, dark seeds. Their odor is strong and peculiar, somewhat narcotic, and fragrant; their taste is bitter, aromatic, and somewhat astringent. These properties depend on a peculiar secretion, called Lupuline. Hops are tonic, and slightly narcotic, and are used in various conditions of the system. The dose, in substance, is from half a drachm to a drachm, but it is seldom administered in this form.

#### Infusion of Hops.

B. Hops, half a troyounce. Boiling water, one pint.

Macerate for two hours in a covered vessel, and strain.

U. S. Ph.

Brit. Ph. uses half an ounce of hops to ten ounces of water.

Dose, one or two fl. ounces, in dyspepsia, nervous tremors, etc.

## Extract of Hops.

R. Hops, one pound.
Alcohol, thirty fl. ounces.
Distilled water, ten pounds.

Macerate the hops in the spirit for a week,
press out, filter and distil, leaving a soft
extract. Boil the residual hop with the
water for an hour, press, strain, and evaporate to a soft extract. Mix the two extracts and evaporate at or below 140° to
the proper consistence. Dose, five to fifteen grains.

Brit. Ph.

## Hop Mixture.

R. Extract of hops, two drachms.
Water of hops, seven fl. ounces.
Tincture of hops, half fl. ounce.
Syrup of orange-peel, one fl. ounce.
Mix. A tablespoonful every hour, as a tonic and stomachic.

Niemann.

## Tincture of Hops.

R. Hops, in powder,
No. 40, five troyounces.
Diluted alcohol, sufficient.
Obtain by displacement two pints,

U. S. Ph.
The tincture of Brit. Ph. is nearly of the

same strength.

Dose, from one to three fl. drachms, as a tonic, and narcotic, especially in the wakefulness and tremors of drunkards.

## Alkaline Tincture of Hops.

R. Hops,
Centaury, each, one ounce.
Peel of bitter orange,
two drachms.
Carbonate of potassium,
one scruple.

Diluted alcohol,

eighteen fl. ounces.

Macerate for eight days, express, and filter. Dose, half an ounce to an ounce.

## Fluid Extract of Hops.

R. Hops in powder,

sixteen troyounces.

Diluted alcohol, sufficient.

Exhaust by maceration and displacement, reserve the first fourteen fluidounces, evaporate the remainder to two fluidounces, and mix with reserved portion. Dose, twenty to sixty minims.

W. Procter.

#### Elixir of Hops.

R. Fluid extract of hops, Rose water, each, one pint. Alcohol, twenty fl. ounces. Syrup, five fl. ounces. Sugar, eighteen troyounces. Tincture of recent orange-peel, Essence of celery, each, one ounce. Oil of anise, four drops. Oil of cinnamon, six drops. Dissolve and mix. Dose, a tablespoonful. Maryland Coll. Ph.

Cataplasm of Hops.

R. Hops, one pound. Flaxseed meal, two ounces. Beer, sufficient. Mix. As an application to bruises and indolent tumors. Radius.

## Ointment of Hops.

R. Hops, two ounces. Lard, ten ounces. Digest for some hours, by a gentle heat, express, and strain; recommended to relieve the pain of cancerous sores.

Swediaur.

## HYDRARGYRUM.

#### MERCURY.

Mercury is a brilliant, silver-white fluid metal, having neither taste nor smell. It becomes solid at -39° F., and boils at 665°. Mercury, in masses, does not appear to act on the system, but in a state of great division it produces marked and peculiar effects. It acts as an alterative, deobstruent, sialagogue, etc. It has been employed in almost all diseases, in some of its preparations, each of which has some peculiarity of action.

## Purified Mercury.

R. Mercury, one hundred parts. Nitric acid,

Distilled water, each, five parts. Digest in a glass vessel for three days, remove the acid liquor, wash mercury with Ph. Germ. water, and dry.

Muriatic acid has been recommended for

the same purpose.

#### Mercury with Antimony.

R. Mercury, four parts. Crude antimony, three parts. Sulphur, two parts. Triturate together till the mercury disappears. As a diaphoretic and alterative. Dose, one to four grains. Giardano.

R. Mercury, one ounce.

Washed flowers of

sulphur, one ounce.

Powdered sulphuret of

antimony, three ounces.

Rub them in a warm stone mortar, with a little water or sulphuret of ammonium, until the globules of mercury disappear.

Codex Hamb. 1845.

and Germany, under the name of antimonial ethiops.

## Compound Mercurial Powder.

R. Powdered resin of

one drachm. guaiacum,

Mercury with antimony,

Magnesia, each, one scruple. Mix. To be taken in two days, in divided doses, in chronic exanthematous affections. Hufeland.

R. Mercury with anti-

twenty-four grains. mony,

Carbonate of sodium,

eighteen grains.

Powdered sassafras,

Sugar, each, one drachm. Mix, and divide into six powders. One to be taken daily, in chronic diseases of the

## Pills of Mercury and Antimony.

one drachm. R. Mercury, Crude antimony, four scruples. Flowers of sulphur, two scruples. Extract of opium, one scruple.

Triturate till mercury disappears, with

Syrup of mallow, sufficient. Divide into one hundred and fifty pills. Dose, five or six a day. Highly spoken of by Huxham, in venereal pains, scrofula, etc. Baldinger.

R. Mercury with antimony, one drachm.

Extract of hemlock, two drachms. half an ounce. Soap,

Galbanum,

Extract of ox gall,

half a drachm. each,

Beat into mass, and form pills of two grains. Dose, eight to ten, three times a day, in scirrhus of the pylorus. Radius.

#### Mercury with Chalk.

R. Mercury, three troyounces. Prepared chalk, five troyounces. Rub together till all the globules disappear.

Brit. Ph. uses one ounce of mercury to

two ounces of prepared chalk.

A mild preparation, well suited as an alterative in complaints of children. Dose, five grains to half a drachm, twice a day, This preparation is much used in France | for adults; two or three grains for a child.

## Mercury and Chalk.

R. Mercury,
Resin,
Prepared chalk,
Alcohol,
three ounces.
six drachms.
five ounces.
sufficient.

Make a paste with the resin and a small quantity of the alcohol; then add the mercury, which may be extinguished in a short time; add the chalk and alcohol gradually, so as to keep up the pasty consistence; then add sufficient alcohol to dissolve out the resin, and wash the powder on a filter, and dry.

Dr. Stewart, modified by P. Lehman.

## Mercury and Chalk with Ipecacuanha.

R. Mercury with chalk, one scruple. Powdered ipecacuanha, ten grains.

Mix, and divide into six powders. One, night and morning, in syrup. In dyspepsia with biliary derangement. Paris.

## Mercury and Chalk Liniment.

R. Mercury,
Prepared chalk,
each, half an ounce.
Triturate till globules disappear, and add
Honey of roses, two ounces.
Mix well. As a dressing to venereal ulcers.
Bories.

#### Mercury and Gum.

Gum Arabic, two parts.

Make a mucilage with a quarter of the gum, rub the mercury with it till extinguished, add the remainder of the gum with as much water as is required, mix well, dry by a gentle heat, and pulverize.

Paris Codex.

#### Pills of Mercury and Gum with Hemlock.

R. Mercury, one part.
Gum Arabic, two parts.
Syrup of violets, four parts.
Triturate till the mercury is extinguished, and add

Extract of hemlock, one part. Powdered liquorice, sufficient.

Mix well, and form pills of two grains. Two to four twice a day, as an alterative.

Plenck.

## Mercurial Mucilage of Gum Arabic.

R. Mercury, one part.
Gum Arabic, two parts.
Water, sufficient.

Triturate till the mercury is extinguished. This is a good preparation of mercury; it is given in the dose of two teaspoonfuls, in syrup or mucilage, morning and night, as an alterative or anthelmintic.

Béral.

## Mercurial Gargle.

B. Mercury,
Gum Arabic,
Syrup of poppies,
Calomel,
Triturate till mercury is extinguished, and

Decoction of clematis (Virgin's bower),

twenty-six fl. ounces.
Honey of roses, one ounce.
Essence of myrrh, one drachm.

Mix. As a gargle in syphilitic angina, and ozæna.

Plenck.

#### Mercurial Lotion.

R. Mercury, one drachm.
Gum Arabic, four drachms.
Syrup of poppies, sufficient.

Rub together till globules disappear, and add gradually, constantly rubbing,

Boiling milk, eight fl. ounces.

As a lotion in gonorrheal ophthalmia, ulcers on the penis, and also as a gargle in venereal sore throat.

Plenck.

## Mercury with Magnesia.

R. Purified mercury,
Manna, each, two parts.
Carbonate of magnesium,
one part.

Rub the mercury with the manna, adding a little water, till globules disappear; add one-eighth part of the magnesia, still rubbing, and when mixed, sixteen parts of hot water, and agitate; let sediment subside; then decant, and repeat washing till all the manna is removed; mix the residue with remainder of magnesia, and dry.

Dub. Ph. 1826.

A mild mercurial, well suited as an alterative in children, especially when there is constipation. Dose, three to four grains.

#### Blue Pills.

R. Mercury, three hundred and eighty-four grains.
Confection of roses, five hundred and seventy-six grains.
Powdered liquorice

root, one hundred and ninety-two grains.

Rub the mercury with the confection till all the globules disappear, add the liquorice root, and beat into mass. Divide into three hundred and eighty-four pills.

U. S. Ph.

Brit. Ph. uses the same proportions, but

does not divide into pills.

One of the mildest and best of the mercurial preparations. From five to fifteen grains as a purgative; one pill every night, or every other night, as an alterative; one pill two or three times a day, as a laxative. Each pill contains one grain of mercury.

## Blue Pill with Jalap.

R. Blue pill,
Powdered jalap,
"aloes,
"grains.

Mix, and form twelve pills; three at night, as a purgative. Ellis.

#### Blue Pill with Rhubarb.

R. Blue pill, nine grains.

Powdered rhubarb,

Bicarbonate of sodium,
each, twelve grains.

Aromatic syrup of
rhubarb, sufficient.

Beat into mass, and form twelve pills. One,
twice or thrice a day, as an alterative, in

twice or thrice a day, as an alterative, in hepatic derangement.

Hartshorne.

R. Blue pill.

R. Blue pill, eighteen grains. Powdered rhubarb, twelve grains. Bicarbonate of sodium, Soap, each, six grains. Socotrine aloes, four grains. Nutmeg, three grains. Mix, and make twelve pills. J. Wright's pills. Maryland Coll. Ph.

## Blue Pill with Colocynth.

R. Blue pill,

Compound extract of

colocynth, each,
Oil of caraway,

Mix, and make two pills. A very active
purgative.

Ellis.

R. Compound extract
of colocynth,
Socotrine aloes,
Blue pill,
Soap,
Scammony,
Mix, and form twenty pills. Known as
Wallace's pills.

Maryland Coll. Ph.

## Triplex Pills.

B. Socotrine aloes, Scammony, Blue pill, Croton oil, twenty minims. Oil of caraway, ninety minims. Elixir proprietatis, sufficient.

Make four hundred pills. Dose, as a laxative, one at bedtime.

J. W. Francis.

## Blue Pill and Quinia.

R. Blue pill,
Sulphate of quinia,
Powdered aloes,
Aromatic syrup of
rhubarb,
each,
twelve
grains.
sufficient.

Beat into mass, and form twelve pills. One, twice to four times a day, as a tonic alterative, in deranged conditions of the liver consequent to fevers.

Ellis.

## Compound Mercurial Pills.

R. Blue pill, five grains.

Powdered ipecacuanha, two
grains.

Camphor, one grain and a half.

Syrup of ginger, sufficient.

Mix, and make two pills. One, morning and evening, in hepatitis, till mouth is affected.

Ainslie.

R. Blue pill, four grains.

Compound powder of squill, six grains.

Powdered ipecacuanha, two grains.

Syrup of ginger, sufficient.

Mix, and make three pills. To be taken in a day; in hepatic obstruction, threatening dropsy.

Ainslie.

R. Blue pill,
Antimonial powder,
each, two and a half grains.
Opium, half a grain.
Syrup of ginger, sufficient.
Make a pill. To be taken at bedtime; in venereal blotches, attended with diarrhea.
Ainslie.

Abernethy's Pills.

R. Blue pill, ten grains.
Powdered jalap, twenty grains.
Syrup of buckthorn, sufficient.
Mix well, and divide into six pills. Two at night, with a wineglassful of infusion of senna, in the morning.

Cooley.

#### Belloste's Pills.

R. Mercury, each, ninety grains. Honey, Aloes, Rhubarb, forty-five grains. thirty grains. Scammony, Black pepper, fifteen grains. Rub the mercury with the honey and a little aloes until the globules have disappeared; then mix with the remaining powders, and form one hundred and twenty Paris Codex. These are the purgative mercurial pills

frequently employed in France in syphilitic and herpetic diseases.

#### Mercurial Mixture.

R. Mercury, six drachms.
Syrup of poppies, one ounce.
Triturate till globules disappear, and add
Orange-flower water, two
fl. ounces.
Rose water, one fl. ounce.
Mix well. Dose, a spoonful, morning and night, in gastrodynia and spasmodic vomit-

#### Mercurial Ointment.

Cadet de Gassicourt.

R. Mercury, twenty-four troyounces. Lard,

Suet, each, twelve troyouoces.

Rub the mercury with a troyounce of the suet and a little of the lard, till the glob-

suet and a little of the lard, till the globules disappear; add the remainder of the lard, and of the suet softened with a gentle heat, mixing well.

U. S. Ph.

The proportions of *Brit. Ph.* are sixteen ounces each of mercury and prepared lard, to one ounce of suet.

R. Mercury, fifty parts.
White wax, four parts.
Benzoinated lard, forty-six parts.
Melt the wax and lard, and with a portion of it triturate the mercury, in a warm mortar, until the globules disappear; then add the remainder, and mix. Paris Codex.
This is the strong mercurial ointment.

It can be weakened by the addition of lard,

as may be wished. Used as an inunction to mercurialize the system, by rubbing about a drachm on the inside of the thighs, twice a day.

R. Mercury, twenty-four ounces.

Lard, rendered rancid
by exposure in a
damp, divided state, four ounces.
Lard, nineteen ounces.
Suet, one ounce.

Triturate the mercury and rancid lard, until
the globules disappear; then add the lard
and suet, and triturate until the texture of
the mass is uniform.

W. Procter.

R. Mercury, six parts.
Old mercurial ointment, one part.
Triturate until all globules disappear; add
Suet, four parts,
Lard, eight parts,
previously melted together, and mix.

Ph. Germ.

#### Camphorated Mercurial Ointment.

R. Mercurial ointment, one ounce. Camphor, one drachm. Mix. Used like the former; also to disperse indolent swellings.

#### Compound Ointment of Mercury.

R. Mercurial ointment, six ounces.
Yellow wax,
Olive oil, each, three ounces.
Powdered camphor, one ounce
and a half.

Melt the wax, add the oil, and when nearly cold, the camphor and ointment, and mix thoroughly.

Brit. Ph.

R. Mercurial ointment, one ounce.
Oil of turpentine,
Camphor, each, two drachms.
Simple cerate, one ounce.
Mix well. Used as a rubefacient application over the region of the liver, when blisters cannot be used.

Ellis.

R. Mercurial ointment, two ounces.

Lard, twelve ounces.

Powdered stavesacre, three ounces.

Melt the lard, and add the other ingredients, mixing well. As an application to destroy lice.

Giordano.

R. Mild mercurial ointment, eight parts.
Soft soap, two parts.
Camphor, one part.

Rub well together. Recommended in periostitis and engorgement of the testicles.

Swediaur.

## Ointment of Mercury and Belladonna.

R. Strong mercurial ointment, thirty parts. Extract of belladonna, four parts. opium, one part. Balsam of Peru, sufficient. Mix well. As an application to painful hemorrhoidal tumors. Mignot.

## Ointment of Mercury and Turpentine.

R. Turpentine ointment, Mercurial ointment, each, equal parts. Mix. Digestif mercuriel of the French. Paris Codex. As an application to venereal ulcers.

## Mercurial Cataplasm.

R. Mercurial ointment, half an ounce. Camphor, two drachms. three ounces. Boiling milk, Crumb of bread, sufficient. Mix, and form cataplasm. Radius.

#### Mercurial Cerate.

R. Mercurial ointment, equal parts. Simple cerate, Mix well. As a dressing to venereal ulcers. Guibourt.

#### Compound Mercurial Cerate.

R. Mercurial ointment, Soap cerate, each, four ounces. one ounce. Camphor, Rub well together. Lond. Ph. As an application to disperse indolent swellings.

#### Mercurial Liniment.

R. Mercurial ointment, one ounce. Water of ammonia, Liniment of camphor, one fl. ounce. each, Liquefy the ointment in the liniment with a gentle heat, add the ammonia gradually, Brit. Ph. and mix with agitation.

As a stimulating liniment, in chronic swellings, glandular tumors, etc.

## Opiated Mercurial Liniment.

R. Mercurial ointment, four parts. Oil of sweet almonds, forty-eight parts. Tincture of opium, three parts. Mix well. Advised in inflamed ulcers of the glans penis, to be applied two or three times a day.

## Mercurial Suppositories.

R. Mercurial ointment, sixty grains. Benzoinated lard, White wax, each, twenty grains. Oil of theobroma, eighty grains. Melt, with a gentle heat, the lard, wax, and oil, add the ointment, stir well together, and make twelve suppositories. Brit. Ph.

## Mercurial and Belladonna Plaster.

R. Mercurial ointment, one ounce. Ammoniac, six drachms. Extract of belladonna, four drachms.

Hydrocyanic acid, thirty drops. Make mass with ammoniac and extract, with a little water; mix mercurial ointment and acid, and rub the whole together. Useful as an application to scirrhous and scrofulous tumors. Med. Chirurg. Ph.

## Mercurial Plaster.

R. Mercury, six troyounces. Olive oil, Resin, each, two troyounces. Lead plaster, twelve troyounces. Melt the oil and resin together, and, when cool, rub the mercury with them till the globules disappear; gradually add the lead plaster previously melted, and mix well. U. S. Ph.

R. Mercury, three ounces. Olive oil, one fl. drachm. Sublimed sulphur, eight grains. Lead plaster, six ounces. Heat the oil and sulphur until they unite, add the mercury, triturate until extinguished, and mix with the plaster previ-Brit. Ph. ously melted.

eight parts. R. Mercury, Common turpentine, four parts. Triturate until the globules disappear; add Lead plaster, twenty-four parts. Yellow wax, six parts. previously melted together, and mix thoroughly. Ph. Germ. Used as an application to buboes, vene-

real nodes, etc.

## HYDRARGYRI ACETAS.

ACETATE OF MERCURY.

## Acetate of Protoxide of Mercury.

R. Protonitrate of

mercury, one part, Distilled water, six parts.

Dissolve the salt in water, acidified with a little nitric acid, add a solution of acetate of sodium or potassium, filter, wash, and dry the precipitate. Béral.

## Pills of Acetate of Mercury.

R. Red oxide of mercury, one pound. Distilled vinegar, eight pints. Dissolve, and triturate a pint of this solution with

Flake manna, two pounds, rubbing the mixture for a long time; dry before the fire, often stirring; when of a proper consistence form pills of a grain and Guibourt.

These pills are highly esteemed under the name of Keyser's anti-venereal pills. They contain, at first, the acetate of the deutoxide, but this gradually changes to the acetate of the protoxide, then to an oxide; therefore, the following have been substituted.

R. Acetate of mercury, Flake manna, Powdered gum Arabic, ) scruple. Rose water. sufficient.

Beat into mass, and form twenty pills. As a sialagogue, three to be taken at night, or one three times a day.

#### Pills of Acetate of Mercury and Opium.

R. Acetate of mercury, ) each, Opium, thirty Camphor. grains. Syrup of poppies, sufficient. Mix, and make thirty pills. Carmichael.

## Solution of Acetate of Mercury.

R. Acetate of mercury, ten or twelve grains. five fl. ounces. Dissolve. As a lotion in obstinate cutaneous affections.

## Liniment of Acetate of Mercury.

R. Acetate of mercury, one part. Olive oil, two parts. Lard, six parts.

Rub the salt with a little of the lard, and add gradually the remainder, and then the oil, constantly rubbing. Used as an application in herpes. Van Mons.

## HYDRARGYRUM AMMO-NIATUM.

## WHITE PRECIPITATE.

R. Corrosive sublimate, six troyounces. Distilled water, one gallon. Solution of ammonia, eight fl. ounces.

Dissolve the corrosive sublimate in the water with the aid of heat, and when cold add the solution of ammonia, frequently stirring. Wash the precipitate thoroughly, and dry it.

This is seldom, if ever, used, except as an

external remedy.

## Ointment of White Precipitate.

R. White precipitate, forty grains. Simple ointment, one troyounce. Soften the ointment over a gentle fire, and mix the white precipitate. U. S. Ph.

Brit. Ph. uses one part of white precipitate to seven of simple ointment. Ph. Germ. one part to nine parts of lard.

As an application to cutaneous eruptions.

## HYDRARGYRI BORAS.

BORATE OF MERCURY.

R. Calomel, twenty-two parts. Borate of sodium, twenty-six parts.

Triturate together; in a quarter of an hour add a little water, then gradually, more, constantly rubbing, permit to settle, decant, wash the precipitate till the washings are

insipid, and dry. Van Mons.

The borate of mercury is said to resemble calomel in its action. Dose, two grains a

day, gradually augmenting.

## HYDRARGYRI BROMIDUM.

#### BROMIDE OF MERCURY.

There are two bromides of mercury : one the protobromide, answering to calomel; the other the bibromide, like corrosive sub-Niemann. limate, an irritant poison.

## Protobromide of Mercury.

R. Solution of bromide of potassium, at

at will.

Add a weak solution of protonitrate of mercury as long as it causes a precipitate; wash this, and dry by a gentle heat. Dose, one grain a day, gradually increased, as an alterative; four or five grains as a purgative.

Magendie.

## Bi-bromide of Mercury.

R. Bromine,

Mercury, each, equal parts.

Mix, and sublime. Dose, one-twentieth of a grain, gradually increased to a fourth. In syphilis.

Magendie.

# Ethereal Solution of Bi-bromide of Mercury.

R. Bi-bromide of mercury, one grain. Ether, one fl. drachm. Dissolve. Dose, ten to twenty drops, in barley-water. In syphilis and lepra.

Werneck.

## HYDRARGYRI CHLORIDUM CORROSIVUM.

#### CORROSIVE SUBLIMATE.

Corrosive sublimate is a very energetic and poisonous preparation, requiring much care in its exhibition. It will produce the usual effects of the other mercurials, but is less apt to salivate. It is much used in secondary syphilis, and as an alterative, and also as an external application, as a stimulant, and escharotic. The best antidote, when poisonous doses have been taken, is albumen, followed by an emetic.

## Solution of Corrosive Sublimate.

R. Corrosive sublimate,

Chloride of ammonium,

each, ten grains.
Distilled water, one pint (imper.).
solve.

Brit. Ph.

A fl. ounce contains half a grain of the mercurial salt. The dose is from one to two fl. drachms, in some mucilaginous drink.

#### Alcoholic Solution of Corrosive Sublimate.

R. Corrosive sublimate, one part.
Alcohol, one hundred parts.
Water, nine hundred parts.
Dissolve. A tablespoonful night and mornsublimate.

ing, in a glass of water, in milk, or in decoction of sarsaparilla. Paris Codex.

This is Van Swieten's mercurial solution

# Powder of Corrosive Sublimate and Copper.

R. Corrosive sublimate, Sulphate of copper,

each, ten grains.

Nitrate of silver, six grains.

Mix. Applied to venereal excrescences,

# Powder of Corrosive Sublimate and Zinc.

previously moistened with water. Kruzer.

R. Corrosive sublimate,

Sulphate of zinc, equal parts.

Mix. In onychia maligna, sprinkled on the sore, and covered with lint soaked in tincture of myrrh.

Perkins.

## Pills of Corrosive Sublimate.

R. Corrosive sublimate, five grains.

Distilled water, thirty to forty

drops.

Confection of roses, one scruple. Powdered liquorice, sufficient.

Dissolve the corrosive sublimate in the water, and add the other articles, and rub well together. Make forty pills. One, three to four times a day, in syphilis.

Ellis

# Compound Pills of Corrosive Sublimate.

R. Corrosive sublimate, three grains. Extract of guaiacum, twelve grains.

" opium, six grains.

Beat together, and make twenty pills. One, morning and evening. Each contains nearly one-sixth of a grain of the mercurial salt. They require much caution in their use. In syphilis. Dupuytren's pills.

Paris Codex.

R. Corrosive sublimate, six grains.

Dissolve in

Distilled water, sufficient, and add

Extract of hemlock, one drachm. Powdered hemlock, sufficient. Beat into mass, and make forty-eight pills,

to be given like the above. Each pill contains an eighth of a grain of corrosive sublimate.

Ellis.

#### Corrosive Sublimate Mixture.

R. Corrosive sublimate, four grains. Chloride of ammonium,

eight grains.

Diluted alcohol, two fl. ounces. Mix. A teaspoonful twice a day, in barleywater, in syphilis. Ainslie.

R. Corrosive sublimate, eight grains. Muriatic acid, twenty-four drops. Comp. tincture of cardamom,

eight fl. ounces.

Mix. Dose, two drachms morning and evening, in a wineglassful of sugar and water. In syphilis. Guibourt.

R. Corrosive sublimate, two grains. Distilled water, six fl. ounces. Spirit of cinnamon,

Syrup, each, one fl. ounce. Mix. One or two spoonfuls twice or thrice a day, in venereal cases.

#### Lotion of Corrosive Sublimate.

R. Corrosive sublimate.

three to six grains. sufficient. Distilled water,

Dissolve, and add

Extract of hemlock,

chamomile.

two drachms. each. Tincture of opium, one fl. drachm. Honey of roses, one ounce. As an application to venereal ulcers in the throat, and on the labia pudendi.

Rust.

R. Corrosive sublimate, one drachm. Distilled water, six fl. ounces.

Dissolve, and add

Chloride of ammonium,

two drachms.

half Nitrate of potassium, an ounce.

Dissolve. As a wash in itch. Good.

#### Cosmetic Lotion with Corrosive Sublimate.

R. Blanched sweet almonds.

one ounce.

bitter almonds.

four drachms.

Cherry-laurel water, ten fl. ounces. Make an emulsion, and add

Corrosive sublimate, six grains. Tincture of benzoin, fl. drachms. Lemon juice, four fl. drachms. Mix. As a wash for eruptions on the face,

to be used morning and evening, previously to be shaken. It must be used with caution. Cadet de Gassicourt.

## Lotion of Corrosive Sublimate and Copper.

R. Corrosive sublimate, two grains. Acetate of copper, six grains. Distilled water, two pints. Dissolve. As a wash in obstinate porrigo Augustin.

## Lotion of Corrosive Sublimate and Camphor.

R. Corrosive sublimate,

half a drachm. Camphor, one drachm. Diluted alcohol, one ounce. Dissolve. As an application to destroy condylomata. Phæbus.

#### White's Caustic Lotion.

R. Corrosive sublimate, five grains. Nitrate of silver, ten grains. Acetate of lead, Sulphate of zinc, each. ninety grains. Water, six fl. ounces. Mix. Maryland Coll. Ph.

#### Bateman's Mercurial Lotion.

R. Corrosive sublimate, two grains. Compound spirit of lavender, one fl. ounce. Distilled water. four fl. ounces. Dissolve. As a lotion in obstinate cutaneous eruptions. Bateman.

#### Antacrid Tincture.

R. Powdered resin of guaiacum, Canada balsam, each, one ounce. Corrosive sublimate, one scruple. Oil of sassafras, two fl. drachms. Alcohol, eight fl. ounces.

Dissolve the mercurial salt in one-half of the alcohol, and then add the remainder, and the other ingredients; after a due digestion, filter. Ten to twenty drops morning and evening, in wine or water, in syphi-Ellis. lis.

Collyrium of Corrosive Sublimate.

R. Corrosive sublimate, two grains.
Opium, ten grains.
Rose water, four fl. ounces.

Dissolve, and add

Mucilage of quince-seed, half an ounce.

Mix. Van Mons.

Injection of Corrosive Sublimate.

R. Corrosive sublimate, three grains.
Water of rosemary,

Distilled water,

each, three fl. ounces.

Dissolve. As an injection in fistula lachrymalis.

Beer.

R. Corrosive sublimate, one drachm.
Alcohol, one fl. ounce.
Dissolve. Add from five to twenty drops
to a solution of

Sulphate of zinc, five to ten grs.,

Water, four fl. ounces.

A drachm to be injected into the urethra three times a day, in gonorrhea.

Whately.

#### Cosmetic Wash.

R. Blanched bitter almonds, six ounces.

Beef-tea, sixty-four ounces.

Make an emulsion, and add

Corrosive sublimate, half an ounce.

Lemon juice, ten ounces. Solution of carbonate of

potassium, half an ounce.

Incorporate gradually

White of eggs, six ounces.
Strain, and add

Camphor, rubbed with muci-

lage gum Arabic, half a drachm.

Mix well. It is said to be an effectual wash for eruptions on the face, but must be used with extreme caution, and very seldom.

Van Mons.

## HYDRARGYRI CHLO-RIDUM MITE.

CALOMEL.

Calomel is prepared by several modes, on the large scale, and is seldom or never made by the apothecary. The several processes

will be found, with judicious observations on each, in the U.S. Dispensatory. It is used in almost every disease, either as a purgative, alterative, anthelmintic, etc. As a purgative it is peculiar, in not producing effects in proportion to the dose.

## Powder of Calomel and Antimony.

R. Calomel,

Golden sulphuret of

antimony, equal parts.

Triturate together. This powder has been much celebrated under the name of Plummer's Alterative, as a deobstruent and alterative. The dose is from five to ten grains a day, in divided doses. It should be used recently prepared, as in a short time it changes to sulphuret of mercury, and oxide of antimony. Guibourt.

## Powder of Calomel and Jalap.

R. Calomel, five grains.
Powdered jalap, ten grains.
Mix. As a purgative, to be mixed with syrup or molasses.

Ellis.

R. Calomel, three grains. Powdered jalap,

Sugar, each, ten grains.

Mix. Make a powder to be taken at night, or early in the morning, in bilious fevers, and obstructed bowels.

A. T. Thomson.

## Powder of Calomel, Antimony, and Henbane.

R. Calomel, one grain. Golden sulphuret of

antimony, three grains.

Powdered extract of

henbane, one grain. Powdered sugar, half a drachm.

Mix. To be taken night and morning, in spasmodic diseases; it is said to have proved very useful in nyctalopia. Phæbus.

#### Powder of Calomel, Jalap, and Rhubarb.

R. Calomel,
Powdered jalap,
rhubarb,
five grains.

Oil of cinnamon, one drop.

Mix. As a purgative, to be given in syrup or molasses.

Ellis.

#### Powder of Calomel and Foxglove.

R. Calomel, three grains.
Powdered foxglove, four grains.
Sugar, one drachm.

Mix, and divide into twelve powders. Two | Mix. To be blown into the eye, in ulcers a day, in chronic hydrocephalus.

Berends.

#### Powder of Calomel, Nitrate of Potassium, etc.

R Calomel, six grains. Nitrate of potassium, one drachm. Tartar emetic, half a grain. Mix, and divide into six powders. One every two hours, as a diaphoretic in febrile Ellis. affections.

## Powder of Calomel and Opium.

R. Calomel. sixteen grains. Powdered opium, four grains. eight ipecacuanha, grains.

Mix, and divide into eight powders. to be taken every hour or two. In dysen-Chapman.

## Powder of Calomel and Gamboge.

B. Calomel, five grains. Powdered gamboge, three to six grains.

Mix. As an anthelmintic. Ellis.

R. Calomel, Powdered gamboge, jalap, 44 rhubarb,

each, two drachms.

Mix. Dose, five to twenty grains.

A. T. Thomson.

## Anthelmintic Purgative.

cinnamon,

R. Calomel, three grains. Compound powder of

scammony, twelve grains. Mix. To be taken at once, in cases of lumbrici. A. T. Thomson.

#### Powder of Calomel and Pink Root.

R. Calomel. four grains. Powdered pink root, ten grains. Mix. To be taken two mornings in succession; also on afternoon of second day, followed by a mild purgative; as an anthelmintic for children over four years of age. Ellis.

#### Dry Collyrium of Calomel.

R. Calomel, Powdered sugar, each, half a drachm.

of the cornea. This is Velpeau's colly-rium of the Paris Codex. Powdered opium was added to it by Radius.

#### Calomel Pills.

R. Calomel, half an ounce. Powdered gum Arabic, one drm. Syrup, sufficient.

Mix the calomel and gum, then beat with syrup into mass, and divide into two hundred and forty pills. U.S. Ph. 1850.

A very convenient form to give calomel, whether as purgative, alterative, etc.; each pill contains one grain of calomel.

## Pills of Calomel, Quinia, etc.

R. Calomel, six grains. Powdered opium, three grains. Sulphate of quinia, twelve grains. sufficient. Syrup,

Beat into mass, and form welve pills. One, night and morning, as an alterative in conditions following bilious fever. Ellis.

## Pills of Calomel and Acetate of Lead.

R. Acetate of lead, half a drachm. Calomel, five grains. Confection of roses, sufficient. Form mass, and divide into ten pills. One to be given every two to four hours, in hematemesis, etc.

### Pills of Calomel and Dandelion.

R. Calomel. four grains. Extract of dandelion, eighteen grs. Mix. To be taken in a day, in divided doses, in abdominal obstructions.

#### Pills of Calomel, Squill, etc.

R. Plummer's powder, twelve grains. Ammoniac, two grains. Extract of dandelion, three grains. Powdered squill, half a drachm. Beat together, and form pills of three grains. Dose, five, three or four times a day, in engorgements of the abdominal viscera, with anasarca supervening on intermittent fever. St. Marie.

#### Pills of Calomel and Iron.

R. Calomel, Golden sulphuret each, one of antimony, drachm. Sulphate of iron, Myrrh, sufficient. Syrup,

Beat into mass, and form pills of three grains. Dose, four, morning and evening, in the same cases as above. Swediaur.

## Pills of Calomel and Catechu.

R. Powdered catechu,
Copaiba, each, three drachms.
Calomel, one scruple.
Syrup of comfrey, sufficient.
Beat into mass, and make one hundred and fifty pills. Four, thrice a day, in leucorrhea or gonorrhea.

St. Marie.

## Compound Calomel Pills.

R. Sulphurated antimony,
Calomel, each, twelve grains.
Guaiacum resin,
Molasses, each, twenty-four grains.
Mix well, and make twenty-four pills.
The compound pills of antimony of
U. S. Ph.

R. Calomel,
Sulphurated antimony,
each,
Powdered guaiacum
resin,
Castor oil,
two ounces.
one fl. ounce.

Rub the calomel with the antimony, and then with the other ingredients till well incorporated. Brit. Ph.

These pills are known as Plummer's pills, and have been much employed in chronic rheumatism and obstinate cutaneous affections, especially when there is a syphilitic taint. The dose is from three to six grains, twice a day.

R. Calomel, two scruples.

Precipitated sulphuret

of antimony, one drachm.
Guaiacum, two drachms.
Copaiba, sufficient.

Mix, and make sixty pills. Three at night, in years all harnes till mouth is affected.

Mix, and make sixty pills. Three at night, in venereal herpes, till mouth is affected; also using frequent tepid baths. Ainslie.

#### Pills of Calomel and Colocynth.

R. Compound extract
of colocynth, forty-eight grains.
Calomel, one scruple.
Mix, and divide into twenty pills. Two or
three will act as a cathartic.

Ellis.

R. Compound extract
of colocynth, eight grains.
Calomel, one grain.

Extract of hyoscyamus,
Acetic extract of colchicum,
Ipecacuanha,

Mix, and make eight pills. Known as
Clapp's pills.

Maryland Coll. Ph.

## Pills of Calomel and Antimony.

R. Calomel, ten grains.
Golden sulphuret of
antimony, one scruple.
Extract of pot marigold,
"hemlock, each,

two drachms.

Mix, and beat into mass, and form pills of two grains. Dose, five, thrice a day, in chronic indurations. Rust.

R. Calomel, six grains.

Kermes mineral, twelve grains.

Syrup of elder, sufficient to make six pills. One every two hours in the decline of peripneumonia, and in the cough of children arising from worms.

Brera.

#### Pills of Calomel and Guaiacum.

R. Calomel,
Resin of guaiacum,
each, two drachms.
Powdered mallow, four ounces.
Syrup, sufficient.
Form mass, and make pills of four grains.

Dose, four or five a day, in syphilis.

Alibert.

## Pills of Calomel, Jalap, etc.

R. Calomel,
Resin of jalap,
Compound extract
of rhubarb,
Soap,

equal parts.

Form mass, and make pills of one grain.

Dose, ten to twelve grains, as a purgative and anthelmintic.

Paris Codex.

#### White's Gout Pills.

R. Calomel,
Acetic extract of
colchicum,
Socotrine aloes,
Ipecacuanha,
Mix and form sixty pills.

Maryland Coll. Ph.

## Pills of Calomel and Opium.

Calomel, two grains.
Opium, half a grain.
Mix. Thrice a day, in neuralgia of the Leslie.

## Electuary with Calomel, etc.

R. Calomel, ten grains.

Powdered rhubarb, santonica, each, two drachms.

" valerian, Conserve of worm-

wood, one ounce and a half.
Oxymel of squill, sufficient.

Mix. A drachm to half an ounce, in epilepsy complicated with worms. Swediaur.

#### Calomel Ointment.

R. Calomel, eighty grains. Prepared lard, one ounce.

Mix. Brit. Ph.

R. Calomel, one drachm.
Rose ointment, three drachms.
Mix. As an application in herpes.

Dupuytren.

R. Calomel, one drachm.
Sublimed sulphur, two drachms.
Lard, one ounce.

Mix well. In obstinate cutaneous affections.

Fouquier.

#### Ointment of Calomel and Squill.

R. Calomel,
Powdered squill,
each, half a drachm.
Lard, two drachms.
Oil of roses, four drops.
Mix. In chronic swellings of the joints.
Dupuytren.

# Ointment of Calomel and Acetate of Copper.

R. Calomel,
Acetate of copper,
each,
Lard,
eleven drachms.
Mix well. As an application in porrigo.
Cadet de Gassicourt.

#### Ointment of Calomel, Alum, etc.

R. Calomel, two drachms.
Burnt alum,
Litharge, each, half an ounce.

Oil of turpentine, two fl. drachms.
Simple ointment, one ounce and a half.

Mix well. As an application to tinea capitis, to be applied at night, and washed off in the morning.

Ellis.

## Calomel and Camphor Ointment.

R. Calomel, half a drachm.
Camphor, twelve grains.
Lard, one ounce.
Mix. As an application in lichen. Biett.

## HYDRARGYI ET QUINIÆ CHLORIDUM.

CHLORIDE OF MERCURY AND QUINIA.

R. Bichloride of mercury, one part.

Muriate of quinia, three parts.

Dissolve separately in the smallest quantity of water, and mix the solutions. Collect the precipitate, and dry by a gentle heat.

McDermott.

# Pills of Chloride of Mercury and Quinia.

R. Chloride of mercury
and quinia, fifteen grains.
Opium, six grains.
Crumb of bread, sufficient.
Mix well, and make thirty pills. One, thrice a day, to produce salivation.

Hamilton.

## HYDRARGYRI CYANIDUM.

CYANIDE OF MERCURY.

R. Ferrocyanide of iron, five troyounces. Sulphuric acid, four troyounces and two drachms.

Red oxide of mercury, Water, each, sufficient.

Dissolve the ferrocyanide in twenty fl. ounces of water, dilute the acid with ten fl. ounces of water, mix in a retort, and distil nearly to dryness into a receiver containing ten fl. ounces of water and three troyounces of red oxide. Reserve two fl. ounces of the distillate, agitate the remainder with sufficient red oxide to destroy the odor of hydrocyanic acid, filter, add the reserved liquid, and in a dark place, evaporate, crystallize, and dry; keep the crystals protected from the light.

U. S. Ph.

half an ounce. It is given in doses of a sixteenth to an eighth of a grain, in syphilis, chronic inflammation of the thoracic and abdominal

organs, etc., and also is employed exter- | Boil, and add towards close of operation nally in porrigo, and other cutaneous affections.

## Solution of Cyanide of Mercury.

R. Cyanide of mercury, four grains. Distilled water, eight fl. ounces. Dose, half a drachm to a drachm.

Chaussier.

## Compound Pills of Cyanide of Mercury.

R. Cyanide of mercury, six grains. twelve grains. Opium, Crumb of bread, one drachm. sufficient. Honey, Mix, and make ninety-six pills. morning and evening. Guibourt.

R. Cyanide of mercury,

eighteen grains. Chloride of ammonium,

Extract of aconite,

three drachms. each,

Extract of box,

one ounce and a half. Oil of anise, one scruple. Beat together, and make four hundred pills. Two, morning and evening.

#### Compound Tincture of Cyanide of Mercury.

R. Cyanide of mercury,

eighteen grains. fourteen fl. ounces. Water, Alcohol, ten fl. ounces. Chloride of ammonium, Extract of aconite, three drachms. each. Extract of box,

one ounce and a half. Oil of sassafras, twenty-four drops. Dissolve the cyanide in the water, add the ammonia, extract, and alcohol, let stand for some hours, filter, and add essential oil.

#### Gargle of Cyanide of Mercury.

R. Cyanide of mercury, ten grains. Barley water, one pint. Honey of roses, one ounce. Mix. As a gargle. Brera.

R. Sarsaparilla, Water,

Fresh hemlock, two drachms. Strain, and add to eight ounces of filtered liquid,

Cyanide of mercury, two grains. As a gargle. Muller.

## Ointment of Cyanide of Mercury.

R. Cyanide of mercury,

twelve grains. Lard, one ounce. Rub well together. As an application to venereal ulcers.

R. Cyanide of mercury,

sixteen grains. Lard, one ounce. Oil of lemon, fifteen drops. Rub together. As an application to moist Biett. tetter.

## HYDRARGYRI IODIDUM RUBRUM.

RED IODIDE OF MERCURY.

R. Corrosive sublimate,

one troyounce. Iodide of potassium, ten drachms. Distilled water, sufficient.

Dissolve the corrosive sublimate in a pint and a half, and the iodide in half a pint, of the water, and mix the solutions. Filter, and wash the collected precipitate with dis-tilled water. Dry by a gentle heat, and keep in a well-stopped bottle. U.S. Ph.

Brit. Ph. directs to use the water boiling hot and obtains the red iodide as a crystal-

line powder.

Much more active than the green iodide. Used in the same cases, in doses of a sixteenth, gradually increased to the fourth of a grain.

## Pills of Red Iodide of Mercury.

R. Red iodide of mercury, one grain. Extract of juniper, twelve grains. Powdered liquorice, sufficient. Mix, and make eight pills. One, morning and evening. Guibourt.

R. Red iodide of mercury, five grains. sufficient.

Rub well together, and then with

Crumb of bread, Sugar, each, sufficient half an ounce. to make sixty pills. Two, morning and sixteen fl. ounces. evening, gradually increasing. Radius.

## Wash of Red Iodide of Mercury.

R. Red iodide of mercury,

twelve grains.

Distilled water, six fl. ounces.

Mix. As a lotion to scrofulous ulcers.

Radius.

## Tincture of Red Iodide of Mercury.

R. Red iodide of mercury,

Alcohol (.837), twenty grains. one fl. ounce and a half.

Dissolve. Dose, five to ten drops, in distilled water. Foy.

# Ethereal Tincture of Red Iodide of Mercury.

R. Red iodide of mercury,

twenty grains.

Ether, one ounce and a half.

Dissolve. Rather more powerful than the last, and therefore to be given in smaller doses.

Magendie.

## Ointment of Red Iodide of Mercury.

R. Red iodide of mercury,

sixteen grains. one troyounce. U. S. Ph.

Brit. Ph. uses one ounce avoirdupois of

simple ointment.

Lard,

Ointment,

Rub well together.

It is more active than the ointment of the iodide, and is used as a dressing to obstinate venereal ulcers.

R. Red iodide of mercury,

fifteen grains. one ounce.

Essence of bergamot,

twenty drops.

Mix well. As an application to chronic cutaneous affections. Foy.

## HYDRARGYRI IODIDUM VIRIDE.

GREEN IODIDE OF MERCURY.

R. Mercury, one ounce.
Iodine, five drachms.
Alcohol, sufficient.

Rub the mercury and iodine together, adding sufficient alcohol to form a soft paste, and continue rubbing till globules disappear. Dry the iodide in the dark, with a gentle heat, and keep from light, in a well-stopped bottle.

Brit. Ph.

U. S. Ph. and Ph. Germ. proceed as above, but direct the product, before drying, to be thoroughly washed with alcohol to remove any red iodide which may have been formed. The product has a greenish-yellow color, and is named yellow iodide of mercury by Ph. Germ. Yvon has recently prepared it in yellow crystals by sublimation below 482° F.

The dose is about a grain a day, gradually increased to three or four. Used in scrof-

ula, and scrofulous syphilis.

## Powder of Iodide of Mercury.

R. Iodide of mercury, one to eight grains.

Magnesia, one drachm.

Mix. Divide into twelve powders. One, three times a day.

Radius.

## Pills of Iodide of Mercury.

- R. Iodide of mercury, five grains. Confection of roses, sufficient.

  Mix, and make thirty pills. One, three times a day.

  Ellis.
- R. Iodide of mercury, one drachm.

  Confection of dogrose, three drachms.
  Powdered ginger, one drachm.

  Beat together. Dose, five to ten grains.

  Lond. Ph.
- R. Iodide of mercury, one grain.
  Extract of juniper, twelve grains.
  Powdered liquorice, sufficient.
  Mix, and make eight pills. Two, morning and evening, gradually increasing to double the number.

  Magendie.

## Compound Pills of Iodide of Mercury.

R. Iodide of mercury, six grains.
Extract of opium, four grains.
Lactucarium, twenty-four grains.
Extract of guaiacum, forty-eight
grains.

Beat together, and form forty-eight pills. In syphilis of children; one pill to a child six months old, and two to four at more advanced ages.

**Ricord.**

- B. Iodide of mercury, half a drachm. Extract of guaiacum, one drachm.
  - " lettuce, two scruples.
    " sarsaparilla, sufficient.

Mix, and make seventy-two pills. One, and then two daily. Biett.

R. Iodide of mercury seventy-five grains.

Extract of opium, thirty grains.

Confection of roses, two drachms and a half.

Powdered liquorice root, sufficient.

Mix. and make one hundred pills.

Known as Ricord's pills of opium and iodide of mercury. Paris Codex.

R. Iodide of mercury, two scruples.

Aloes,
Sulphate of iron,
Myrrh,
Oil of savine,
Mix, and make twenty-four pills. One,
thrice a day, in amenorrhœa.

Barbour.

## Ointment of Iodide of Mercury.

- R. Iodide of mercury, one scruple. Lard, one ounce and a half. Rub well together. In scrofulous swellings, indolent glandular tumors, etc. Soubeiran.
- White wax, two ounces.

  Lard, six ounces.

  Melt the wax and lard and stir in the iodide.

  As a dressing to scrofulous ulcers, etc.
- R. Iodide of mercury, six grains.
  Acetate of morphia, eight grains.
  Lard, one ounce.
  Rub well together. As an application to obstinate glandular swellings. Pelletan.
- R. Iodide of mercury, one drachm.
  Soap, half a drachm.
  Rose water, two drachms.
  Rose ointment, six drachms.
  Mix.

  Riecke.

# HYDRARGYRI NITRAS. NITRATE OF MERCURY.

## Nitrate of the Protoxide of Mercury.

R. Mercury, four parts.
Nitric acid, three parts.
Water, one part.

Leave in contact for twenty-four hours; wash the crystals with nitric acid, and dry them.

Paris Codex.

## Pills of Protonitrate of Mercury.

R. Protonitrate of mercury, ten grains.

Extract of liquorice, forty grains.

Beat into mass with a little water, and

Foy.

form sixty pills.

## Ointment of Nitrate of Mercury.

R. Mercury, one troyounce and a half.
Nitric acid, three troyounces
and a half.
Lard, sixteen troyounces
and a half.

Dissolve the mercury in the acid, heat the lard in an earthen vessel to 200°, remove from the fire, add the solution, stir with a wooden spatula until effervescence ceases and until the ointment stiffens. U. S. Ph.

R. Mercury, four ounces.
Nitric acid, twelve fl. ounces.
Prepared lard, fifteen ounces.
Olive oil, thirty-two fl. ounces.
Operate as directed for the preceding. It

is directed to use the melted fats hot, without indicating the precise temperature.

Brit. Ph.

This ointment is sometimes made with fresh butter, when it is of a firm consistence.

A stimulant and alterative application, used in most cases diluted with lard. Employed in various skin diseases, etc. It is known under the name of Citrine ointment.

### Ointment of Nitrate of Mercury and Lead.

R. Mercury, four parts. Lead, half a part.

Dissolve separately in

Nitric acid, sufficient.

Then mix

Oil of almonds, twenty-four parts, Lard, forty-eight parts, first with the mercurial, and then with the saturnine solution; rub well together. Van Mons.

Advised by Armstrong in porrigo favosa.

## Liniment of Nitrate of Mercury.

- R. Ointment of nitrate of mercury, two ounces and a half. Simple cerate, seven ounces and a half. Olive oil, five fl. ounces and a half. Mix well.

  Beasley.
- R. Ointment of nitrate of mercury,
  Almond oil, equal parts.

  Triturate together till perfectly mixed.
  Sir H. Halford.

### Solution of Nitrate of Mercury.

R. Mercury,
Nitric acid,
Distilled water,

three troyounces.
five troyounces.
six fl. drachms.

Dissolve and evaporate to seven troyounces | weight used, when the proportion dissolved and a half. Or

R. Red oxide of mercury, three troyounces and two drachms. Nitrie acid, three troyounces and five drachms. six fl. drachms. Distilled water, Dissolve and evaporate to seven troyounces and a half. U. S. Ph.

four parts. R. Mercury. Nitrie acid, six parts. Water, two parts.

Dissolve, and evaporate to nine parts.

Paris Codex.

A powerful caustic and escharotic, used in obstinate skin diseases. The part to which it is applied becomes white, and in a few days a yellow scab falls off.

## Solution of Protonitrate of Mercury.

R. Protonitrate of

mercury, twenty parts. Nitric acid, three parts.

Triturate in a mortar, avoiding heat, and dissolve in sufficient water to make the weight two hundred parts. Prepare when needed for dispensing. Ph. Germ.

Dose, one to two drops, and externally in

syphilitic ulcers.

# HYDRARGYRI OLEAS.

OLEATE OF MERCURY.

This preparation has been introduced by Prof. J. Marshall, and is recommended as far preferable to mercurial ointment; it should merely be applied with a brush or lightly spread over the part with one finger. Combined with morphia, it has proved of service in chronic rheumatism and gout. The following combination is generally employed.

#### Oleate of Mercury and Morphia.

R. Pure oleic acid, seven thousand Oxide of mercury, seven hundred grains. Morphia, one hundred and forty grains.

Digest at or below 1500 in a closed vessel out of contact with the atmosphere, until Am. Journ. Ph. 1873, p. 97.

Commercial oleic acid always reduces a portion of the oxide of mercury; the precipitated mercury should be collected, and the weight of oxide of mercury which it and stir till cold represents should be deducted from the curial outment.

is readily calculated.

Ch. Rice, in Am. Journ. Ph. 1873, p. 1. Mr. L. Dohme has suggested to prepare this compound by precipitating a solution of nitrate of mercury by one of oleate of potassium; the precipitate is dissolved in oleic acid, or in a mixture of alcohol and oleic acid, when it remains permanently fluid.

## HYDRARGYRI OXIDUM NIGRUM.

BLACK OXIDE OF MERCURY.

R. Calomel,

Potassa, each, four ounces. Water, one pint.

Dissolve the potassa in the water, let settle and decant; add the calomel, stirring well till the black oxide is formed, decant, wash the oxide with distilled water, and dry with

a gentle heat. U. S. Ph. 1840.
Alterative, purgative, and sialagogue.
Dose, one-quarter of a grain to two grains.

#### Black Wash.

thirty grains. R. Calomel, Lime water, ten fl. ounces. Brit. Ph. Mix.

one drachm. R. Calomel, Lime water, six troyounces. Mix well. As a lotion to venereal and phagadenic ulcers. Ph. Germ.

half a drachm. R. Calomel, Powdered opium, two drachms. Lime water, two fl. ounces. Mix. As a dressing for chancres. Rust.

#### Pills of Black Oxide of Mercury.

R. Black oxide of mercury,

one drachm.

Confection of roses,

three drachms.

Powdered chamomile,

half a drachm.

Mix. As a substitute for blue pill.

## Ointment of Black Oxide of Mercury.

R. Black oxide of mercury, one part. sixteen parts. Lard, Subject to a temperature of 300° to 320° for an hour, stirring continually, remove, and stir till cold. As a substitute for mer-Donovan.

## HYDRARGYRI OXIDUM | R. Red oxide of mercury, RUBRUM (ET FLAVUM).

RED (AND YELLOW) OXIDE OF MERCURY.

## Red Precipitate.

R. Mercury, thirty-six troyounces. Nitric acid, twenty-four troyounces. Water, two pints.

Dissolve the mercury with a gentle heat, in the acid and water, and evaporate to dryness. Rub to powder, and heat in a shallow vessel, as long as red vapors arise.

U. S. Ph.

R. Mercury, eight ounces. Nitrie acid, four fl. ounces and a half. two fl. ounces. Water,

Dissolve half the mercury in the nitric acid and water, and evaporate to dryness. Triturate the salt with the remaining mercury until uniformly blended together, and heat in a porcelain dish until vapors cease to be evolved. Brit. Ph.

## Yellow Oxide of Mercury.

R. Corrosive sublimate, four troyounces. Solution of potassa, seventeen troyounces. Distilled water, sufficient.

Dissolve the corrosive sublimate in five pints of the water, and add the solution of potassa. Let settle, decant, wash the precipitate with distilled water, dry with a gentle heat in a dark place, and preserve it protected from the light.

Ph. Germ. directs solution of soda, instead of potassa, to be used for precipi-

tating.

The red and yellow oxides of mercury are seldom used internally in this country, as they are harsh and uncertain in their operation, but are much employed externally as stimulants and escharotics.

## Pills of Red Oxide of Mercury.

R. Red oxide of mercury, Powdered opium, each, one grain. Oil of cloves, two drops.

Mix, and make three pills. One, every night for a week, in venereal complaints. Ellis.

three grains.

Phæbus.

Acetate of morphia, one grain. Powdered mallow root,

Water, each, sufficient.

Mix, and form twenty pills. One, morning and evening. Radius.

## Powder of Red Oxide of Mercury.

R. Red oxide of mercury, Burnt alum, each, half a drachm. Powdered savine, two drachms. As an application to condyloma, whitlow,

#### Yellow Wash.

R. Corrosive sublimate,

eighteen grains. Lime water, ten fl. ounces. Mix. Brit. Ph.

Yellow wash of Ph. Germ. is nearly identical with this.

R. Corrosive sublimate, one scruple. Carbonate of potassium,

one drachm.

Rub together, and add gradually

Distilled water, one pint. Mix. Span. Ph.

Employed as lotions to venereal and phagadenic ulcers; must be shaken up when

## Ointment of Red Oxide of Mercury.

R. Red oxide of mercury, in

very fine powder, one drachm. Simple ointment, seven drachms.

Rub the oxide with the ointment gradually added, and mix well.

Brit. Ph. directs the same strength, but uses an ointment made of one part of yellow wax and three parts of almond oil. Paris Codex directs one part of the oxide to fifteen parts of rose ointment. Ph. Germ. directs one part of the oxide to nine parts of lard; and under the name of ophthalmic ointment, a weaker ointment which is exactly one-seventh the strength directed by U. S. Ph.

An efficacious, stimulating application to foul and indolent ulcers, psorophthalmia, etc. Where it is too stimulating, dilute with lard.

R. Red oxide of mercury,

one drachm.

Venice turpentine, one ounce. Mix. As an application to indolent ulcers, and also used in itch.

Ellis.

# Ointment of Yellow Oxide of Mercury.

R. Yellow oxide of mercury,

one drachm.

Simple ointment, seven drachms.

Mix thoroughly.

U. S. Ph.

Mainly used in affections of the eye, in which cases it is preferred to the preceding owing to the minute division of the oxide of mercury.

## Ointment of Red Oxide of Mercury and Sulphur.

R. Red oxide of mercury,

Mercury, each, one part.
Precipitated sulphur, sixteen parts.
Triturate till globules disappear, and add

Rub well together. As a friction in the cure of itch.

Kendy thirty-two parts.

Swediaur.

# Brown Ointment of Red Oxide of Mercury.

R. Red oxide of mercury, one part. Basilicon ointment, fifteen parts.

Rub well together. Larrey's brown ointment. Used in the treatment of indolent venereal ulcers. Paris Codex.

# Ointment of Red Oxide of Mercury and Tin.

R. Red oxide of mercury, two drachms.

Amalgam of equal parts of mercury and tin, four drachms. Rose ointment, one ounce.

Rub well together, and add

Oil of peppermint, twenty drops.

Highly spoken of in hemorrhoidal tumors.

Cadet de Gassicourt.

#### Ointment of Red Oxide of Mercury and Cinnabar.

R. Red oxide of mercury, one ounce. Cinnabar, one drachm. Lard, one pound.

Rub well together. Employed in chronic inflammations of the eyelids. Giordano. sypnilis. The grain, combine matic powder.

#### Ointment of Red Oxide of Mercury and Zinc.

R. Red oxide of mercury, fifteen parts.

Oxide of zinc, six parts.

Yellow wax, twenty-four parts.

Lard, one hundred and forty parts.

Camphor, five parts.

Olive oil, ten parts.

Melt wax, add the lard, triturate with the oxide, and add the camphor dissolved in the oil.

Ph. Germ.

Well known as St. Yves ophthalmic ointment.

R. Red oxide of mercury, one part.
Sulphate of zinc, two parts.
Lard, ninety-six parts.

Rub well together. In scrofulous ophthalmia, as an application to the edges of the eyelids.

Dupuytren.

#### Ointment of Red Oxide of Mercury and Lead.

R. Fresh butter, three drachms. Camphor, one grain. Red precipitate,

Acetate of lead, each, ten grains.

Mix thoroughly. Regent's ophthalmic ointment.

Paris Codex.

R. Red oxide of mercury,
Oxide of zinc,
Burnt alum,
Acetate of lead,
Corrosive sublimate, fifteen grains.
Rose ointment, one ounce.

Rub well together. Celebrated as *Desault's ophthalmic ointment*, in the treatment of herpetic affections, etc.

Paris Codex.

#### HYDRARGYRI PHOSPHAS. '

PHOSPHATE OF MERCURY.

R Solution of nitrate of mercury, at will.

Add to it a solution of phosphate of sodium, as long as any precipitate is formed; decant, wash the precipitate well, and dry it.

Van Mons.

This has been highly praised in secondary syphilis. The dose is half a grain to a grain, combined with sugar or some aromatic powder.

## Pills of Phosphate of Mercury.

R. Phosphate of mercury, nine grains.

Tartar emetic, one grain.
Opium, six grains.
Conserve of roses, sufficient.

Mix, and make nine pills. One in the evening, at bedtime.

Radius.

## HYDRARGYRI SULPHAS.

PERSULPHATE OF MERCURY.

R. Mercury, twenty ounces. Sulphuric acid, twelve fl. ounces.

Expose them to heat in a porcelain vessel, and increase the heat until the mass becomes white and perfectly dry. Brit. Ph.

Not used as a remedy, but serves to form corrosive sublimate, calomel, and turpeth mineral.

## Yellow Sulphate of Mercury. Turpeth Mineral.

R. Persulphate of mercury, one part. Warm water, twenty parts.

Rub together in an earthenware mortar, and pour off the supernatant liquid; wash the yellow powder with warm distilled water, as long as the washings are precipitated by caustic potassa. Dry.

Duo. Ph. 1826.

R. Mercury, four troyounces. Sulphuric acid, six troyounces.

Mix them in a glass vessel, and boil on a sand-bath till a dry white mass remains. Rub this into powder, and throw it into boiling water. Pour off the supernatant liquor, wash the yellow precipitate repeatedly in hot water, and dry it. U. S. Ph.

Turpeth mineral is alterative, errhine, and emetic. The dose, as an alterative, is from a quarter to half a grain; as an errhine, one grain mixed with five grains of some bland powder; as an emetic, two to five grains.

#### Compound Powder of Sulphate of Mercury.

R. Sulphate of mercury, one grain.

Powdered asarabacca,

one drachm and a half.

Mix, and divide into eight powders. One to be used as an errhine, twice a day. in gutta serena, ozæna, etc. Ellis.

## Ointment of Sulphate of Mercury.

R. Sulphate of mercury, one part.

Lard, eight parts.

Rub well together. As an application to herpes, porrigo, etc.

Soubeiran.

R. Sulphate of mercury, two drachms.
Chloride of lime, three drachms.
Oil of almonds, six drachms.
Lard, two ounces.

Melt together the oil and lard, and mix the two powders. More stimulating than the last. Used in obstinate cutaneous affections. Chevallier.

## HYDRARGYRI SULPHUR-ETUM NIGRUM.

BLACK SULPHURET OF MERCURY.

## Ethiops Mineral.

R. Mercury,
Sulphur, each, one pound.
Rub together till all globules disappear.

Employed as an alterative in cutaneous affections and glandular swellings. Dose, from five to thirty grains, or even more, several times a day.

## Powder of Black Sulphuret of Mercury.

R. Black sulphuret of
mercury, four drachms.
Prepared chalk, two ounces.
Powdered amber, one ounce.
Mix well, and divide into sixty-four powders. One, and afterwards two a day, in a glass of sugar and water. In scrofulous affections.

St. Marie.

R. Black sulphuret of mercury,
Prepared oyster shell,
each, one drachm.
Powdered orange-peel, half a
drachm.

Mix, and make ten powders. Three a day, as an anthelmintic. Phæbus.

## Pills of Black Sulphuret of Mercury.

R. Black sulphuret of mercury,
Extract of bittersweet,
each, two drachms.
Powdered mallow, sufficient.
Mix, and form one hundred and twenty
pills. Four to five, three times a day. In
blis. obstinate cutaneous affections. Radius.

R. Black sulphuret of mercury, one scruple. Extract of dandelion, three drachms.

Ammoniac, two drachms. Powdered squill, half a drachm. Syrup, sufficient.

Beat together, and make pills of three grains. Dose, five, thrice a day. In ascites with engorgement of the abdominal viscera.

St. Marie.

R. Black sulphuret of
mercury, half an ounce.
Guaiacum,
Soap, each, two drachms.
Golden sulphuret of
antimony, two scruples.

Extract of horehound, sufficient.

Beat together, and form pills of two grains.

Ten, morning and evening. In chronic rheumatism.

Baldinger.

## HYDRARGYRI SULPHUR-ETUM RUBRUM.

RED SULPHURET OF MERCURY.

## Cinnabar.

R. Mercury, forty ounces. Sulphur, eight ounces.

Melt the sulphur, and mix the mercury with it over the fire. When mass begins to swell remove from fire, and cover the vessel, to prevent combustion; when cool, powder and sublime.

U. S. Ph.

At one time, cinnabar was much used as an alterative and anthelmintic, but it is now seldom employed except for fumigation. Dose, five to ten grains.

Powder of Red Sulphuret of Mercury.

R. Red sulphuret of

mercury, half an ounce. Powdered sugar candy, three ounces.

Oil of cinnamon, half a drachm.
Rub well together. At one time celebrated as cordial, stomachic, and analeptic, in doses of a scruple.

Swediaur.

#### Pills of Red Sulphuret of Mercury.

R. Red sulphuret of mercury,
Powdered Virginia snakeroot,
each, half a drachm.
Syrup, sufficient.

Mix, and form twelve pills. Two to be taken thrice a day; alterative and diaphoretic; useful in obstinate cutaneous affections.

R. Red sulphuret of mercury, Extract of wormwood, hemlock, each, one drachm.

Beat together, and form pills of two grains.

Dose, seven, morning and evening, in venereal glandular swellings.

Augustin.

## Fumigating Powder.

R. Red sulphuret of
mercury, four drachms.
Olibanum, two drachms.
Mix. To be thrown on a red hot iron, and the diseased parts exposed to the fumes.

## Cerate of Red Sulphuret of Mercury.

In herpes and venereal pustules.

R. Powdered red sulphuret of mercury, fifteen grains. Yellow resin, half an ounce.

Yellow wax,

Lard, each, half a pound.

Melt the resin, wax, and lard together, and add the sulphuret. As a dressing to ill-conditioned ulcers.

Swediaur.

# Ointment of Red Sulphuret of Mercury.

R. Red sulphuret of mercury, one drachm and a half. Chloride of ammonium, half a drachm.

Lard, two ounces.

Rose water, one fl. drachm.

Rub well together. Advised in pityriasis, to diminish the itching.

Radius.

R. Red sulphuret of
mercury, one drachm.
Camphor, one scruple.
Simple cerate, one ounce.
Rub well together. Used in the treatment of herpes. To be applied at least twice a day.

Alibert.

## HYDRARGYRI TARTRAS.

TARTRATE OF MERCURY.

R. Black oxide of mercury, at will.
Tartaric acid, sufficient.
Boil together, in a due proportion of water, until the oxide is dissolved; filter, and

evaporate to the point of crystallization; wash the crystals.

Swediaur.

Dose, one to two grains, twice a day.

## Tartrate of Mercury and Potassium.

R. Boiling saturated solution

of nitrate of mercury, at will.

Add, drop by drop, a boiling saturated solution of bitartrate of potassium as long as a precipitate is formed; decant, wash the precipitate well with cold water, dissolve in boiling water, and set aside to crystallize.

Van Mons.

Dose, one to three grains. Once very celebrated as Pressavin's vegeto-mercurial liquor.

## HYDRASTIS.

## YELLOW ROOT.

This is the rhizome and root of Hydrastis Canadensis, a native plant, more common in the western than in the eastern States. The flowers are yellow and fugacious, and are succeeded by red fruit, resembling raspberries, but not eatable.

Sex. Syst. Polyand. polygyn. Nat. Syst.

Ranunculaceæ.

Linn. Sp. Pl. 784. Griffith, Med. Bot. 82. The root is contorted, rugose, and of a bright yellow color. It has a strong, somewhat narcotic odor, and a bitter taste. It is a powerful tonic bitter, and is also used in decoction as a wash in chronic ophthalmia. It is given in powder, decoction, or in the form of fluid extract. Dose, ten to twenty grains.

#### Fluid Extract of Hydrastis.

R. Hydrastis, in powder,

No. 80, sixteen troyounces.
Glycerin, two fluidounces
fourteen fl. ounces.

Mix the liquids, moisten the powder with four fl. ounces of the mixture, pack in a percolator, add the remaining mixture, and macerate for four days; then, with a mixture of two parts of alcohol and one of water, percolate twenty-four fl. ounces, reserving the first fourteen, evaporate the remainder to two fluidounces, and mix with the reserved portion.

U. S. Ph.

### HYOSCYAMUS.

#### HENBANE.

Several species of Hyoscyamus are medicinal, but the only one that is officinal, is the *H. niger*, a native of Europe, and now naturalized in some parts of the United States. It has a lurid appearance, and a rank, unpleasant odor.

Sex. Syst. Pentand. monog. Nat. Syst. Solanaceæ.

Linn. Sp. Pl. 257. Griffith, Med. Bot. 484.

All parts of the plant are active, but the leaves are generally employed, though the seeds also are officinal. The dried leaves have but little taste or smell. The seeds are small, roundish, somewhat reniform, of a grayish color; of an unpleasant smell, and an oily, somewhat bitter taste. They both owe their properties to an alkaloid, called hyoscyamia. They are anodyne and hypnotic, and are used to relieve pain, to procure sleep, and to quiet an excited nervous system. The dose of the powdered leaves is from five to ten grains; of the seeds rather less. The latter are used in the compound emulsion of almonds (see page 133).

## Aqueous Extract of Hyoscyamus.

R. Hyoscyamus leaves, one pound. Bruise them in a stone mortar, adding a little water; express, heat the juice to boiling point, strain, and evaporate.

Paris Codex operates in same manner, but cools and strains the concentrated juice just previous to the final evaporation. Brit. Ph. separates first the chlorophyll, afterwards the albumen; the chlorophyll is again incorporated with the concentrated juice. Ph. Germ. removes chlorophyll and albumen by heat, and the mucilaginous constituents from the concentrated juice by alcohol.

Dose, two grains, twice a day, to be gradually increased till the system is affected.

#### Alcoholic Extract of Hyoscyamus.

R. Hyoscyamus leaves,

in powder, No. 50, sixteen troyounces.

Alcohol, four pints.
Water, two pints.

Mix the liquids, moisten powder with a pint of the mixture, pack firmly in a conical percolator, and displace six pints of tincture, using first remainder of mixture, afterwards diluted alcohol. Evaporate the percolate by a water-bath to proper consistence.

U. S. Ph.

Dose, as for the last, and in the same manner.

## Fluid Extract of Henbane.

R. Hyoscyamus leaves,
in powder, No. 50, sixteen
troyounces.
Alcohol, twelve fl. ounces.
Glycerin, three fl. ounces.
Water, one fl. ounce.

Mix the liquids, moisten the powder with half a pint of the mixture, pack firmly into a percolator, add the remaining liquid, and macerate for four days; then with diluted alcohol, displace twenty-four fl. ounces, reserving the first fourteen, add to the remainder one fl. ounce of glycerin, evaporate to two fl. ounces, and mix with reserved portion.

**U. S. Ph.**

Dose, a teaspoonful.

## Compound Powder of Henbane.

R. Powdered extract of henbane,
Oxide of zinc, each, ten grains.
Magnesia, half a drachm.
Sugar of milk, two drachms
and a half.

Mix, and divide into ten powders, One every three hours, as a sedative, in nervous attacks.

Vogler.

## Compound Pills of Henbane.

R. Extract of henbane,
opium,
belladonna,
hemlock,
each,
one
ounce.

Beat together, and form pills of one grain. Said to be useful in neuralgia of the face, in doses of one to six a day. Pierquin.

R. Extract of henbane, half a drachm.

"opium, two grains.
Powdered foxglove,
"ipecacuanha, each,

five grains.

Beat together, and make thirty pills. One every three hours, in hooping-cough.

Phæbus.

R. Extract of henbane, each, two valerian, drachms oxide of zinc, and a half.

Beat together, and form two hundred pills.

Paris Codex.

In hysteria, neuralgia, etc., in doses of one to ten. Known as Meglin's pills.

R. Extract of henbane, two scruples.

Powdered myrrh, one drachm and a half.

" squill, half a drachm.

Distilled water, sufficient.

Beat together, and make thirty pills. Two, night and morning, in catarrh and phthisis, with debility of the pulmonary organs.

Paris.

Pills of Henbane and Opium.

R. Extract of henbane, hemlock,

each, Powdered opium, four grains. Beat into mass, and make ten pills. One at night, as an anodyne.

## Pills of Henbane and Ipecacuanha.

R. Extract of henbane, ten grains.

Powdered ipecacuanha, five grains.

Mix, and make ten pills. One, every hour or two, in irritability of the bowels, with flatulence.

Ellis.

#### Infusion of Henbane.

R. Leaves of henbane, half an ounce.
Boiling water, one pint.
Infuse. As a lotion to painful ulcers.

Ellis.

## Compound Infusion of Henbane.

R. Henbane leaves,
Poppy heads,
Mallow,
Boiling water,
Infuse for an hour, and strain. As a fomentation to painful tumors, etc.

Radius.

#### Mixture of Henbane.

R. Oil of almonds, half an ounce. Powdered gum Arabic, two drachms. Oil of fennel, one drop. Extract of herbane, six grains. Sugar, half an ounce. Water, two fl. ounces. Rub well together. A spoonful every two hours, in catarrh. Foy.

#### Mixture of Henbane and Antimony.

R. Extract of henbane, ten grains.
Antimonial wine, two fl. drachms.
Dissolve. In hooping-cough, in doses of five to ten drops.

Augustin.

#### Tincture of Hyoscyamus.

R. Hyoscyamus leaves, in powder,
No. 60, four troyounces.
Diluted alcohol, sufficient.
Obtain by percolation two pints.
U. S. Ph.

The tincture of Brit. Ph. is nearly of the same strength.

Dose, a fl. drachm.

#### Ethereal Tincture of Henbane.

R. Henbane leaves, one part. Ether, six parts.

Macerate for eight days, express, and filter. Dose, ten to twelve drops, three or four times a day.

Hesse Ph.

## Mixture of Henbane and Squill.

R. Tincture of squill, ten drops.

Nitric acid, five drops.

Extract of henbane, three grains.

Water, one fl. ounce and a half.

Mix. In spasmodic asthma; to be repeated every three or four hours. Bree.

#### Anodyne Poultice.

R. Poppy heads, one part. Henbane, two parts.

Bruise, boil for a few seconds with twenty-four parts of water, express, and add

Powdered emollient

species, four parts.

If laudanum is required, it should be poured upon the poultice without mixing it with the mass.

Paris Codex.

## Oleo-infusion of Hyoscyamus.

R. Hyoscyamus, bruised, two parts.
Alcohol, one part.
Olive oil, twenty parts.

Digest hyoscyamus and alcohol in a covered vessel for several hours, afterwards with the oil until the alcohol is evaporated, express, and filter.

Ph. Germ.

#### Liniment of Henbane.

R. Extract of henbane, half a drachm.
White soap, two drachms.
Linseed oil, six ounces.

Mix. As an embrocation to glandular swellings. Dupuytren.

## Ointment of Hyoscyamus.

R. Extract of henbane, one part.
Simple ointment, nine parts.
Rub together. As an application to painful hemorrhoids.

Ph. Germ.

## Compound Ointment of Henbane.

R. Leaves of henbane,

stramonium,
bittersweet,
elder,

each, a
handful.

Lard, two pounds.

Heat together till all moisture is evaporated, and strain. As an application to frost-bites, chilblains, etc. Spielmann.

R. Fresh poplar buds, four ounces. Lard, twelve ounces.

Leaves of henbane,

" poppy,
belladonna,
black nightshade,
" one

Heat together till all moisture is evaporated. As a soothing and anodyne ointment to painful local affections.

Cottereau.

This is much used in Europe, under the name of *Unguentum populeum*.

### Plaster of Hyoscyamus.

Ph. Germ.

R. Yellow wax, four parts.
Turpentine,
Olive oil, each, one part.
Powdered hyoscyamus, two parts.
Melt wax and turpentine and mix well with the oil and powder.

Ph. Germ.

## I.

## ICHTHYOCOLLA.

#### ISINGLASS.

This is the swimming bladder of several kinds of fish. The best, however, is procured from various species of sturgeon, inhabiting the more southern parts of Russia. It is a pure and nutritious gelatine, and is rather employed as food, and in the arts, than in medicine, in which it is only used as the basis of court-plaster.

#### Court-Plaster.

R. Isinglass, one ounce.
Water, eight fl. ounces.
Macerate for twenty-four hours, and add

Alcohol, eight fl. ounces.

When perfectly dissolved, brush over strained silk or sarsonet several times, alternating with a layer of tincture of Peru or benzoin.

Cottereau.

R. Isinglass, sixty grammes. Cover silk, one hundred and four centimetres in length and forty-two centimetres in width, with a solution of one-half the isinglass in eleven times its quantity of When dry cover again with a similar solution of the remaining isinglass, to which one hundred and twenty grammes alcohol and three grammes of glycerin have been gradually added. When dry, coat the back with tincture of benzoin.

Ph. Germ.

nine drachms. R. Isinglass, Dissolve in water, and add hot filtered mixture of

Alcohol (0.921), twelve fl. ounces. Tincture of benzoin, two fl. ounces. Apply this to strained silk, till six coats are given, permitting each to dry before applying another, then brush over twice with a mixture of

Tincture of benzoin, six fl. ounces. Liquid turpentine, four ounces. Virey.

R. Isinglass, one ounce. Water, two fl. ounces. Mix, and allow to stand till the isinglass is quite soft, then add

Rectified spirit, three fl. ounces and a half,

mixed with

one fl. ounce and a half. Water, Expose to heat of water-bath till dissolved, and apply to oiled silk, nailed to a board, by means of a soft brush; apply four coats.

- R. Fasten a piece of fine muslin, linen, or silk, to a flat board, and give it a thin coat of flour paste; over this, when dry, two coats of colorless gelatine are to be applied. Said to be superior to the usual court-plaster. Deschamps.
- R. To one quart of jelly (obtained by boiling two beef's feet in sufficient water to cover them, and removing the fat from the surface), add one ox-gall; boil, and strain through a coarse cloth. Then add, while warm, two fl. ounces of laudanum, and the same quantity of tincture of camphor. Stir well together, R. Ignatia, in coarse and apply the composition to

silk stretched on frames, two or three times with a paint brush, and carefully dry. This is far less apt to irritate the skin than common court-plaster.

Bullock.

#### Diamond Cement.

R. Isinglass, softened in water, and dissolved in the smallest quantity of diluted alcohol,

Of the solution, two ounces. Ammoniac, ten grains,

and whilst still liquid, add

Solution of mastic, made with half a drachm, in three drachms of alcohol.

Stir well together.

Redwood.

## IGNATIA.

## BEAN OF ST. IGNATIUS.

The seed of Strychnos Ignatia (Ignatia amara), a shrub or small tree, which is a native of the Philippine Islands, and has been transplanted to Cochin China and other parts of the East Indies.

Sex. Syst. Pentand. monog. Nat. Syst.

Loganiaceæ.

The seeds are about an inch long, ovate, angular, and variously flattened, very hard, of a purplish-black or grayish color externally, and dark gray or brownish and some-what diaphanous within. They are inodorous, and have a very bitter taste, which is due to the alkaloids brucia and strychnia, of the latter of which they contain a larger proportion (about twice as much) than is contained in nux vomica. They have the same properties and are employed for the same purposes as nux vomica, but require a smaller dose. Ignatia is given in the form of extract and tincture.

## Extract of Ignatia.

R. Ignatia in powder, No. 60, twelve troyounces. Alcohol, sufficient.

Moisten powder with four fl. ounces of alcohol, press firmly into a cylindrical percolator, and obtain three pints of percolate. Distil to half a pint, and evaporate this to U. S. Ph. the proper consistence.

Dose, one-eighth to half a grain.

#### Tincture of Ignatia.

four troyounces. powder,

Moisten with two fl. ounces of water and heat in a corked bottle until the powder is swollen; then add half a pint of alcohol and digest for three hours; pack in a percolator and slowly displace one pint. Or,

R. Extract of Ignatia, half a troyounce.

Alcohol, one pint.

Dissolve. Dose, ten to fifteen drops.

Procter.

## Alkaline Tincture of Ignatia.

R. Rasped Ignatia, five hundred parts.

Carbonate of potassium, five parts.

Soot, one part.

Alcohol, 60 per ct., one thousand

Digest for ten days, express, and filter. Gouttes amères or Baumé's tincture. Dose, one to eight drops. Paris Codex.

## INDIGO.

#### Indigo.

A tinctorial material, obtained from several species of *Indigofera*. It is found in commerce in the form of small, solid, brittle masses, having scarcely any taste or odor, of a deep blue color, but assuming a coppery lustre when rubbed. It is principally used in the arts, but has also been employed as a remedial agent, in various spasmodic diseases. The dose is about a scruple, two or three times a day, rapidly increased to a drachm or more.

## Powder of Indigo.

R. Powdered indigo, half an ounce.
 Aromatic powder, half a drachm.
 Mix. A teaspoonful, three times a day, in epilepsy.

#### Electuary of Indigo.

R. Powdered indigo, half an ounce.
Aromatic powder, half a drachm.
Syrup, one fl. ounce.
Mix. To be taken in divided doses, during the day.

Phæbus.

## Pills of Indigo.

R. Powdered indigo, seventy-five grains.

Assafetida, fifteen grains.
Castor, seven grains.

Mix, and form twenty pills. One every Podreca.

## Sulphate of Indigo.

R. Indigo, Bengal,
in powder, four ounces.
Sulphuric acid, twenty-four ounces.
Dissolve by maceration and agitation, and
add water until the solution measures four
pints.

## INULA.

#### ELECAMPANE.

The root of *Inula helenium*, a large herbaceous plant, a native of Europe, and cultivated in gardens in this country, where it has also become naturalized in some places.

Sex. Syst. Syngen. super. Nat. Syst. As-

teraceæ

Linn. Sp. Pl. 881. Griffith, Med. Bot. 397. The root is thick, fleshy, and branched. As dried and found in the shops, it is in slices of a yellowish-gray color, with a peculiar and aromatic odor, and an unpleasant, bitterish taste, with an after-sensation of pungency. It is tonic and expectorant, and also acts in some cases as a diuretic and diaphoretic. The dose of the powder is from a scruple to a drachm.

#### Decoction of Elecampane.

R. Elecampane root, half an ounce.
Water, one pint.
Boil. Dose, a fl. ounce every hour or two.

Wood.

### Compound Pills of Elecampane.

R. Extract of elecampane, one drachm.

Powdered foxglove,

" ipecacuanha,

each, ten grains.
Opium, five grains.
Beat into mass, and form pills of two grains. One every hour in chronic catarrh,
Heim.

#### Extract of Elecampane.

R. Elecampane root, at will. Exhaust with diluted alcohol, and evaporate to the proper consistence. Dose, ten to thirty grains.

Ph. Germ.

#### Mixture of Elecampane.

R. Extract of elecampane, two drachms.

Antimonial wine, one fl. ounce.

Syrup of orange flowers, half a fl. ounce.

Mix. Dose, twenty to thirty drops, every three hours, in asthma and chronic catarrh.

Jahn.

## Compound Oxymel of Elecampane.

R. Elecampane root, one ounce.
Orris root, half an ounce.
Water, thirty-six fl. ounces.
Boil down to two-thirds, strain, and add

Honey, sixteen ounces.
Ammoniac, one ounce.
Vinegar, eight fl. ounces.

Evaporate to the consistence of honey. A spoonful occasionally, in catarrh and humid asthma. Spielmann.

## IODINIUM.

## IODINE.

Iodine is an elementary non-metallic body, having many of the properties of chlorine. It exists in many marine vegetables and animals, and also in some mineral bodies and salt springs; but is principally obtained from kelp, or the ashes of seaweeds. It is soft, friable, and opaque; of a bluish-black color and metallic lustre, and has a strong and penetrating odor, and an acrid taste. It is employed as a stimulant or alterant in morbid actions of the absorbent and glandular systems, both externally and internally, and, in overdoses, acts as an irritant poison.

The dose, in substance, is from the eighth

of a grain to a grain.

#### Pills of Iodine.

R. Iodine, six grains.

Extract of gentian, one drachm.

Mucilage of gum Arabic, sufficient.

Mix, and form twenty-four pills. These are said to be useful in mercurial or scorbutic salivation.

Radius.

#### Tincture of Iodine.

R. Iodine, one troyounce.
Alcohol, one pint.
Dissolve.
U. S. Ph.

Sixteen minims, or thirty-five drops, contain one grain of iodine. Dose, from ten to twenty drops, three times a day; to be increased.

R. Iodine, one part.
Alcohol, ten parts.
Dissolve. This is nearly a saturated tincture.

Ph. Germ.

#### Saturated Tincture of Iodine.

R. Iodine, two scruples.
Alcohol, one fl. ounce.
Compound spirit of
lavender, two fl. drachms.
Mix. Five to ten drops, twice a day,
gradually increasing. In amenorrhœa,
leucorrhœa, gonorrhœa, etc. Durand.

#### Decolorized Tincture of Iodine.

R. Iodine,
Hyposulphite of sodium,
Distilled water,

Make a solution at a moderate heat; add

Spirit of ammonia, sixteen parts.

Agitate for a few moments, and add

Alcohol, seventy-five parts.

Set in a cool place for three days, and filter. Colorless, with a slight ammoniacal odor.

Ph. Germ.

## Compound Tincture of Iodine.

R. Iodine, half a troyounce.

Iodide of potassium, one troyounce.

Alcohol, one pint.

Dissolve. Dose, five to fifteen drops, as may be required.

U. S. Ph.

R. Iodine, half an ounce.
Iodide of potassium, one
quarter ounce.
Alcohol (imp. meas.), one pint.
Dissolve.

Brit. Ph.

This is the tincture of iodine of *Brit*. *Ph.*, and is considerably weaker than the preceding. Dose, ten to twenty minims.

#### Ethereal Tincture of Iodine.

R. Iodine, two scruples. Sulphuric ether, one fl. ounce and a half.

Dissolve, and filter. Magendie.

R. Iodine, six grains.
Sulphuric ether, two fl. drachms.
Dissolve. Dose, ten drops, two or three times a day, much diluted. In diseases of the skin or glands.

Ellis.

one part.
ten parts.
ten parts.
trated tincPh. Germ.

R. Iodine,
Sulphuric ether,
Sufficient
to make a saturated solution. This is very
useful as a counter-irritant, and is applied
by a camel-hair pencil. The part is then
to be covered with a pledget of lint to
check eyaporation.

R. Thomson.

# Mixture of Iodine and Iodide of Potassium.

R. Iodine, three grains.
Iodide of potassium, six grains.
Distilled water, one fl. ounce.

Dissolve. Dose, six to twenty drops, thrice a day, in a draught of cold water. In glandular diseases and affections of the mucous membranes.

Morton.

## Compound Solution of Iodine.

R. Iodine, six drachms. Iodide of potassium, a troyounce and a half. Distilled water, a pint. U. S. Ph.

R. Iodine, twenty grains.
Iodide of potassium, thirty grains.
Distilled water, one fl. ounce.
Dissolve. Officinal under the name of Solution of Iodine.

Brit. Ph.

## Bath with Iodine.

For adults. 1. 2. 3.
R. Iodide of potassium, 231 grs. 308 grs. 370 grs.
Iodine, 123 " 154 " 184 "
Water, twenty fl. ounces.
Dissolve, and add to bath of sixty gallons.

For children.

R. Iodide of potassium, 77 grs. 92 grs. 107 grs. Iodine, 38 " 46 " 61 " Water, ten fl. ounces. Dissolve, and add to bath of sixty gallons. Used in scrofulous affections. Lugol.

#### Solution of Iodine.

For internal use. 1. 2. 3. R. Iodine,  $\frac{1}{2}$  gr.  $\frac{2}{3}$  gr. 1 gr. Common salt, 12 grs. 12 grs. 12 grs. Distilled water, Oj. Oj. Oj.

For external use.

R. Iodine, 2 grs. 3 grs. 4 grs.
Distilled water, Oj. Oj. Oj.
As a lotion.

Lugol.

#### Inhalation of Iodine.

R. Tincture of iodine
(Brit. Ph.), one fl. drachm.
Water, one fl. ounce.
Mix; apply a gentle heat, and let the vapors be inhaled.

Brit. Ph.

R. Compound solution of iodine, ten to forty drops. Distilled water, one fl. ounce.

Mix. Used with an atomizer in chronic bronchitis.

Solis Cohen.

R. Iodine, twenty grains. Chloroform, one fl. ounce. Dissolve. Forty drops to be inhaled at night. Dutcher.

## Liniment of Iodine. 1

R. Iodine, one ounce and a quarter.
Iodide of potassium, half an ounce.
Camphor, one quarter ounce.
Rectified spirit, ten fl. ounces.
Dissolve.

Brit. Ph.

#### Lotion of Iodine.

R. Tincture of iodine, half a fl. ounce.
Iodide of iron, twelve grains.
Chloride of anti-

mony, half an ounce.

Mix. As an application to corns, by means of a camel's-hair pencil, after the corn has been pared.

Henderson.

R. Tincture of iodine, one fl. drachm.
Black drop, two fl. drachms.
Oil of almonds,
Lime water, each, two fl. ounces.
Mix carefully. As a lotion for chilblains.

Cadet.

R. Iodine, one or two grains.
Alcohol, one fl. drachm.
Water, one pint.

Mix. To wash scrofulous ulcers. Foy.

## Collyrium of Iodine.

R. Iodide of potassium, twenty-five grains. Iodine, one grain. Rose water, eight troyounces. Dissolve. In scrofulous affections of the eye.

Magendie.

#### Mixture of Iodine.

R. Tincture of iodine, ninety drops.

Decoction of Peruvian
bark, ten fl. ounces.

Mix. Two spoonfuls, three times a day.

Radius.

R. Tincture of iodine, ten drops.
Water of soapwort, four fl. ounces.
Syrup of orangeflowers, one fl. ounce.

Mix. In spoonful doses. In the treatment | R. Iodine, of scrofulous ulcers. | Foy. | Lard.

## Syrup of Iodo-tannin.

R. Iodine, one part.
Tannin, six parts.
Distilled water, one hundred parts.

Dissolve and evaporate to twenty parts, filter, and, to every sixty parts of the solution, add enough syrup to make one thousand parts.

**Demolon.**

Dose, a tablespoonful, in scrofulous affections, leucorrhœa, etc. Guilliermond has published a similar formula, containing three-fifths the above amount of iodine, and substituting extract of rhatany in place of the tannin.

## Clyster of Iodine.

R. Gum Arabic, four drachms.
Water, six fl. ounces.
Dissolve, and add

Tincture of iodine, five drops. In amenorrhœa, dysmenorrhœa, etc.

Cadet.

## Gargle of Iodine.

R. Tincture of iodine, one to two fl. drachms.

Tincture of opium, one fl. drachm.
Water, six fl. ounces.

Mix. As a gargle, in ulceration of the tonsils.

Ross.

#### Ointment of Iodine.

R. Iodine, twenty grains.

Iodide of potassium, four grains.

Water, six minims.

Lard, one troyounce.

Rub the iodine and iodide with the water, and then with the lard, till thoroughly mixed.

U. S. Ph.

In goitre, scrofulous swellings, etc.

B. Iodine,

Iodide of potassium,
each, thirty-two grains.
Proof spirit, one fl. drachm.
Prepared lard, two ounces.
Proceed as above.

Brit. Ph.

R. Iodine, one scruple.
Rose ointment, one ounce.
Mix. To be applied to the tonsils, night and morning, by means of a brush. Not to be used till all inflammation is subdued.

R. Iodine, one part.
Lard, sixteen parts.
Rub together carefully. Guibourt.

## Compound Ointment of Iodine.

R. Iodine, fifteen grains.
Iodide of potassium, thirty grs.
Water, thirty minims.
Lard, one troyounce.
Rub the iodine and iodide of potassium with the water, and then with the lard, till thoroughly mixed.

U.S. Ph.

Used in same cases as the iodine ointment, but is more active.

#### Iodine Ointment with Oil of Tobacco.

R. Iodine, twelve grains.
Iodide of potassium, four scruples.
Oil of tobacco, fifty drops.
Lard, two drachms.
Mix. To relax rigid muscles. Dover.

## Iodine Ointment and Mercury.

R. Mercurial ointment, sixteen parts.

Iodine, three parts.

Mix. In frictions, in ovarian dropsy.

Radius.

## Liniment of Iodine.

R. Liniment of opium, one fl. ounce.

Tincture of iodine, one fl. drachm.

Mix.

Manson.

## Cataplasm of Iodine.

R. Tincture of iodine, half fl. ounce.
Flaxseed meal, one ounce.
Oatmeal, three ounces.
Distilled water, sufficient.
Make a cataplasm. Used as an application to scrofulous tumors and goitre.

Dunglison, N. Rem.

#### Iodine Plaster.

B. Iodine, one drachm.
Iodide of potassium, one scruple.
Water, half a fl. drachm.
Water, half a fl. drachm.
Triturate in a mortar, and add to
Burgundy pitch, three ounces.
Wax,
Suet, each, half an ounce.
Melt together, and triturate till well mixed.

## IODOFORMUM.

## IODOFORM.

R. Water, one hundred parts.
Alcohol, thirteen parts.
Ricerbonate of sedium

Bicarbonate of sodium,

Iodine, each, ten parts.

Mix together in a flask and digest at a moderate heat in a water-bath until, after two or three hours, the liquid has lost its brown color; add iodine in small quantities as long as the brown coloration, at first produced, disappears; then cool, collect the crystals, wash and dry them.

Clary.

By adding more carbonate of sodium, heating to 160°, and passing a rapid current of chlorine gas through the mother-liquor, an additional quantity of iodoform may be obtained.

Filhol.

It is in yellow scaly crystals, having a saffron-like odor, insoluble in water, readily soluble in alcohol, ether, fixed and volatile oils; exposed to the air, it slowly volatilizes. It has tonic, stimulant, and alterative properties, and produces in larger doses tetanic spasms and death; locally it acts as an anæsthetic. Dose, one to three grains twice a day, best given in the form of pill.

## Suppositories of Iodoform.

R. Iodoform, in powder,

eighteen grains.
Oil of theobroma, seven drachms.
Triturate the iodoform with half a drachm of the oil, add to the remainder the oil previously melted, and make six suppositories.
In indurated piles and cancer of the rectum.

Maitre.

R. Iodoform, in powder,

eighteen grains.
Oil of theobroma, three drachms.

Make six suppositories. In syphilitic ulcerations.

**Lallier.**

#### Ointment of Iodoform.

R. Iodoform, thirty or forty grains.
Simple ointment, one ounce.
Mix thoroughly. In obstinate skin diseases, and in bubo, scrofulous glandular enlargements, etc.

Glover.

#### Saponated Emulsion of Iodoform.

R. Quillaia bark, one part. Stronger alcohol, sufficient.

Prepare four parts of tincture and saturate this with iodoform; dilute one part of this liquid with four parts of water, and agitate. A portion of the water may be substituted by glycerin.

Recommended as a convenient form for external use, and in doses of two to eight grains daily, internally.

Lebœuf.

### IPECACUANHA.

#### IPECACUANHA.

The root of Cephaelis ipecacuanha, a small herbaceous plant, a native of Brazil.

Sex. Syst. Pentand. monog. Nat. Syst. Rupiacese.

Richard, Bull. Med. iv. 92. Griffith, Med. Bot. 357.

This root is about the size of a large quill, of an irregular, twisted shape, apparently formed of small, unequal rings, about a line in height, separated by narrow interstices; when broken, it presents two distinct parts, a thin ligneous centre, and a thick cortical layer of a brownish color, and somewhat resinous appearance, having an herbaceous, sub-acrid, somewhat bitter taste, and a nauseous odor. Externally it presents some varieties of color, but is usually brown. It is emetic, and sometimes purgative in full doses, and diaphoretic and expectorant in small, but repeated quantities. As an emetic, the dose is fifteen to twenty grains; as a nauseant, two to four grains; as an expectorant, one to two grains.

# Compound Powder of Ipecacuanha. (Dover's Powder.)

R. Ipecacuanha, Opium, each, in powder,

one drachm.

Sulphate of potassium, one ounce.

Triturate thoroughly.

U. S. Ph.

R. Ipecacuanha,
Liquorice root,
Extract of opium,
in powder,
Sulphate of potassium,
Nitrate of potassium,
each,
four ounces.

Triturate well. Paris Codex.

This latter formula approaches nearest to the original formula of Dover, but is not superior to the first, now generally used. Dose, five to ten grains, as a diaphoretic.

## Dover's Powder (Original).

R. Opium, one ounce.
Saltpetre,
Vitriolated tartar,
each, four ounces.
Ipecacuhan, one ounce.
Liquorice, one ounce.

"Put the saltpetre and tartar into a redhot mortar, stirring them with a spoon until they have done flaming. Then powder them very fine. After that slice in your opium; grind these to a powder, and then mix the other powders with them."

Dover.

### Powder of Ipecacuanha and Tartar Emetic.

R. Powdered ipecacuanha,

Tartar emetic,

as a nauseant and sudorific.

one scruple. one grain. Mix. As an emetic, or in divided doses,

#### Powder of Ipecacuanha and Rhubarb.

R. Powdered ipecacuanha, rhubarb, each,

one scruple.

Ellis.

Mix. As an emeto-cathartic in full doses; or tonic alterative, in doses of three or four grains. Beasley.

## Powder of Ipecacuanha and Chloride of Ammonium.

R. Powdered ipecacuanha, a quarter grain. Chloride of ammonium,

twelve grains.

Extract of liquorice, Sugar of milk, each,

six grains. Mix. To be taken every two hours, as an expectorant, on the decline of pneumonia.

Kopp.

## Powder of Ipecacuanha and Antimony.

R. Ipecacuanha, Golden sulphuret of antimony, each, one grain. Camphor, three grains. Gum Arabic, one scruple. Triturate well. To be taken every two hours, in deficient expectoration in pneu-Phæbus.

### Powder of Ipecacuanha and Carbonate of Sodium.

R. Powdered ipecacuanha, opium, each, one grain. Carbonate of sodium, twelve grains.

Mix, and rub well together. To be taken every eight hours, in spasmodic asthma, hooping-cough, etc. A. T. Thomson.

## Powder of Ipecacuanha and Nitre.

R. Dover's powder, one drachm. Nitre. one ounce. Mix. To be taken in divided doses.

Beasley.

R. Powdered ipecacuanha, six grains. nitrate of

potassium, thirty grains.

myrrh, twelve grains.

Mix, and divide into four powders; one to be taken every four hours. Found useful in asthma, and the earlier stages of phthisis. A. T. Thomson.

## Powder of Ipecacuanha and Calomel.

R. Powdered ipecacuanha, six grains. opium, three grains. one grain and a half. Calomel, Powdered nitre, half a drachm. Mix, and make six powders. One, every three or four hours, as a diaphoretic.

## Powder of Ipecacuanha and Myrrh.

R. Powdered ipecacuanha, six grains. myrrh, twelve grains. nitre, half a drachm. Mix, and make four powders. One every four hours, as a stimulating expectorant.

#### Powder of Ipecacuanha and Tragacanth.

R. Powdered ipecacuanha, five grains. Compound tragacanth powder, ten grains. Mix, make a powder, to be taken every four or six hours. Useful at the commencement of febrile diseases, after clearing the stomach and bowels.

A. T. Thomson.

## Extract of Ipecacuanha.

R. Coarsely-powdered ipecacuanha, one part. Proof spirit, six parts. Treat by displacement; distil off the spirit, and evaporate, on water-bath, to proper consistence. Paris Codex.

#### Bolus of Ipecacuanha.

R. Powdered ipecacuanha, two grains. Conserve of opium, one scruple. sufficient. Prepared chalk, Two, night Mix, and make eight boluses. and morning, in dysentery. St. Marie.

R. Powdered ipecacuanha, two grains.

Aromatic powder, ten grains.

Syrup of cinnamon, sufficient.

Mix, and make two boluses. One in the evening, in dyspepsia.

Cadet.

Pills of Ipecacuanha and Opium.

R. Dover's powder, three parts.
Confection of roses, one part.
Mix, and make pills of four grains each.
Ed. Ph.

Pills of Ipecacuanha and Squill.

R. Dover's powder,
Powdered squill,
Ammoniac, each,
Molasses,
Mix, and form mass.
grains, as a diaphoretic.

Three drachms.
one drachm.
sufficient.

Brit. Ph.

Pills of Ipecacuanha and Foxglove.

R. Powdered ipecacuanha,

"foxglove,
each, half a drachm.
Powdered opium, five grains.
Extract of elecampane, sufficient.

Mix, and make sixty pills. One, every three hours, in spasmodic asthma. Heim.

## Pills of Ipecacuanha and Centaury.

R. Powdered ipecacuanha,
Extract of centaury,
each, fifteen grains.
Powdered rhubarb, half a drachm.
Mix, and make thirty pills. One, night
and morning, in dyspepsia. Radius.

#### Lozenges of Ipecacuanha.

R. Powdered ipecacuanha,

"tragacanth,
each,
Powdered arrowroot,

two troyounces.

sugar, eight troyounces.

Syrup of orange-peel, sufficient.

Mix the powders thoroughly, form into a mass with the syrup, and divide into four hundred and eighty troches.

U. S. Ph. Dose, one to three.

A good expectorant in catarrh. Each contains a quarter of a grain of ipecacu-

anha

The lozenges of Brit. Ph. contain the with six fl. ounces of the mixture, pack same amount of ipecac, but weigh about firmly in a conical percolator, add remain-

two seventeen grains each; those of Ph. Germ. weigh one gramme, and contain one-thirteenth of a grain of ipecacuanha.

# Lozenges of Ipecacuanha and Camphor.

R. Powdered ipecacuanha,

fifteen grains.

" camphor,

" sugar, each, one drachm.
Mucilage of tragacanth, sufficient.
Mix, and make sixty lozenges. Beasley.

R. Powdered sugar,

Flake manna, five hundred parts.

one hundred and twenty-five parts.

Powdered ipecacuanha,

eighteen parts.
Lactucarium, eight parts.
Powdered squill, four parts.
Mucilage of tragacanth, sufficient.
Make into a uniform paste, and divide into lozenges of ten grains. Five or six a day, in catarrh, etc.

Grunn.

## Confection of Ipecacuanha.

R. Powdered ipecacuanha,

twelve grains.
Flowers of sulphur, one scruple.
Powdered orris, one drachm.
Syrup of mallow,

Manna, each, two ounces.

Mix. A teaspoonful, two or three times a day in hooping-cough. Bories.

## Decoction of Ipecacuanha.

R. Bruised ipecacuanha,

Water, two drachms.

One-third of the water is to be used at a time, so as to make three decoctions; these are to be united, and should amount to six ounces. Celebrated in dysentery; one-third to be taken at a dose. Soubeiran.

#### Fluid Extract of Ipecacuanha.

R. Ipecacuanha, in powder,

No. 60, sixteen troyounces.
Glycerin, eight fl. ounces.
Stronger alcohol, one pint and a half.

Water, twelve fl. ounces.

Mix the alcohol and water, moisten powder
with six fl. ounces of the mixture, pack
firmly in a conical percolator, add remain-

ing mixture and macerate for four days. Then with diluted alcohol obtain two pints of percolate, mix with glycerin and evaporate, at or below 140°, to one pint.

U. S. Ph.

If evaporated at a higher heat, the fluid extract is more unsightly and may become

gelatinous.

The following modification of the officinal process is an improvement: mix the percolate with two fl. ounces of glycerin, evaporate at 140° to ten fl. ounces, cool, and filter, wash the filter with sufficient water to make the filtrate measure twelve fluid-ounces, and mix with four fluidounces of glycerin. Amer. Journ. Ph. 1873, Nov.

## Mixture of Ipecacuanha.

R. Powdered ipecacuanha,

half a drachm.
Tartar emetic, one grain.
Tincture of squill, one fl. ounce.
Distilled water, seven fl. ounces.
Mix. Four tablespoonfuls; then two every ten minutes, till vomiting is produced.

Ellis.

R. Powdered ipecacuanha,

Syrup of poppies, one drachm.
Spirit of cinnamon, two drachms.
Chalk mixture, thirteen drachms.
Mix. As a draught in dysentery.

Hooper.

R. Powdered ipecacuanha,

two grains.
Carbonate of sodium, ten grains.
Syrup of poppies, one fl. ounce.
Mint water, six fl. ounces.
Mix. In spoonfuls to check spasmodic vomiting.

St. Marie.

R. Ipecacuanha, one drachm.
Senna, two drachms.
Boiling water, six fl. ounces.

Infuse for twelve hours, strain, and add

Oxymel of squill,

Syrup of hyssop, each, one ounce. Mix. In spoonfuls, in hooping-cough.

Guibourt.

#### Buckler's Croup Mixture.

R. Tartar emetic, two grains. Powdered ipecacuanha,

Syrup of squill, two fl. ounces.

Mix. Dose, a teaspoonful every ten minutes until it operates. Maryland Coll. Ph.

## Syrup of Ipecacuanha.

R. Fluid extract of ipecacuanha, two fl. ounces. Syrup, thirty fl. ounces. Mix. U. S. Ph.

R. Ipecacuanha, in powder,

No. 60, Acetic acid, Glycerin, Sugar, in coarse

two troyounces. sixty minims. eight fl. ounces.

powder, eighteen troyounces.

Moisten powder with a little alcohol, pack firmly in a cylindrical percolator, add two fl. ounces of alcohol, then eight fl. ounces of a mixture composed of two parts of alcohol to one of water, and displace, finally, with diluted alcohol twelve fl. ounces; evaporate the first two fl. ounces of the percolate spontaneously to a syrupy consistence, and the remaining ten fl. ounces mixed with the acetic acid, carefully in a water-bath to two fl. ounces and a half. Mix the two portions, add ten fl. ounces of water, evaporate to twelve fl. ounces, cool, filter, and wash the filter with water to obtain twelve fl. ounces of liquid; in this dissolve the sugar cold or with a moderate heat, add the glycerin, and strain.

J. B. Moore.

A tablespoonful represents fifteen grains of ipecacuanha. Dose, as an emetic for children, one to two fl. drachms; as an expectorant, five to twenty minims.

R. Bruised ipecacuanha, one part.
Alcohol, sp. gr. 892, five parts.
Distilled water, thirty-six parts.

Digest for a day, express, filter, and add Sugar, sixty-six parts.

Dissolve and strain. Ph. Germ.

This is about one-fifth the strength of the preceding.

R. Alcoholic extract of

ipecacuanha, one part. Water, eight parts.

Dissolve, filter, and mix with

Syrup, ninety-nine parts.

Boil to the consistency of syrup.

Paris Codex.

## Compound Syrup of Ipecacuanha.

R. Ipecacuanha, one drachm.
Orris root, two drachms.
Red Peruvian bark, half an ounce.
Seneka,
Iceland moss, each, two ounces.

Sugar, two pounds.
Boiling water, two pints.
Digest for two hours, strain, and evaporate to one pint; then add the sugar, and make a syrup. In spoonful doses, as an expectorant.

Courtois.

R. Syrup of ipecacuanha,

"poppies,
each, two ounces.
"orange-flowers, one ounce.

Oxymel of squill, one ounce and a half.

Mix. Two spoonfuls every hour, in hooping-cough. Cadet.

## Tincture of Ipecacuanha.

R. Bruised ipecacuanha, one part.
Alcohol, sp. gr. .892, ten parts.
Digest for a week, express, and filter.

Ph. Germ.

R. Bruised ipecacuanha, two ounces.
Spirit of nitrous ether, two pints.
Digest for eight days, and filter. Used as a diaphoretic in febrile affections.

Mettauer.

## Wine of Ipecacuanha.

R. Fluid extract of ipecacuanha, Sherry wine, two fl. ounces. Mix, and filter. two fl. ounces. U. S. Ph.

R. Ipecacuanha, bruised, one ounce. Sherry wine, one pint (imper.). Macerate for seven days, press, and filter. Brit. Ph.

R. Ipecacuanha, bruised, one part.
Sherry wine, ten parts.
Macerate for a week, express, and filter.

Ph. Germ.

Emetic and diaphoretic. Dose, for an adult, as emetic, one fl. ounce; for a child, one fl. drachm.

#### Compound Wine of Ipecacuanha.

R. Ipecacuanha, four parts.
Sugar, two parts.
Diluted alcohol, twenty-four parts.
Digest for eight days, and add
Sherry wine, ninety-six parts.
Star anise, one part.
Sugar, four parts.

Filter at the end of six days.

#### Wine of Ipecacuanha and Tartar Emetic.

R. Wine of ipecacuanha, one fl. ounce.
Tartar emetic, one grain.
Mix. A teaspoonful, every ten or fifteen
minutes, till vomiting is induced. Ellis.

## Alkaline Wine of Ipecacuanha.

R. Wine of ipecacuanha, forty minims.

Tincture of opium, eight drops.
Carbonate of sodium, sixteen
grains.
Syrup, two fl. drachms.
Water, fourteen fl. drachms.
Mix. A teaspoonful, to children, in hooping-cough.

Pierson.

## Elixir of Ipecacuanha.

R. Powdered ipecacuanha,
Balsam of tolu, each, half an ounce.
Flowers of benzoin,
Opium,
Saffron,
Oil of anise,
Camphor,
Alcohol,
Digest, express, and filter.
Dose, one to two drachms, as a stimulating sudorific.

Cadet.

## IRIS FLORENTINA.

#### FLORENTINE IRIS. ORRIS.

The Florentine iris is a native of the southern parts of Europe, and affords a root, or rhizome, known as orris root.

Sex. Syst. Triand. monog. Nat. Syst. Iri-

Linn. Sp. Pl. 55. Griffith, Med. Bot. 625. The rhizome is horizontal, knotty, and fragrant; in a recent state it is acrid, and somewhat bitter; this acrimony disappears in a great measure on desiccation. It is seldom used in medicine, but forms an ingredient in numerous tooth-powders, etc.

#### Dentifrice with Orris Root.

R. Cream of tartar, two ounces. Powdered orris root, one ounce.

six parts.
one part.
our parts.
Niemann.

" myrrh,
kino, each,
an ounce.
Redwood.

R. Powdered Castile soap,

orris root,

each, two ounces.

" cuttlefish bone,

prepared chalk,

each, three ounces.

Oil of cloves, Essence of lemon,

each, twenty drops.

Mix. Redwood.

## IRIS VERSICOLOR.

#### BLUE FLAG.

This is a native of the United States, where it grows in moist and swampy locations.

Sex. Syst. Triand. monog. Nat. Syst. Iri-

daceæ.

The rhizome, which is the officinal portion, is horizontal, jointed, of a brown color externally, grayish within; it has a feeble but nauseating odor, and an acrid, bitterish taste. It possesses cathartic and emetic properties. Dose, twenty to thirty grains, in the form of powder.

J.

## JALAPA.

## JALAP.

Jalap is the tuber of the Exogonium purga (Ipomæa jalapa), a native of Mexico.

Sex. Syst. Pentand. monog. Nat. Syst. Convolvulaceæ.

Coxe, Am. Journ. Med. Sci., 1830. Griffith,

Med. Bot. 474.

The root, when dried, is in pieces of various forms and sizes; usually entire, but sometimes in slices. The epidermis is thin and brown; within it is grayish, with brown, concentric rings. The powder is of a brownish-yellow, with a peculiar, unpleasant odor, and a sweetish, sub-acrid, nauseous taste. It is an active purgative, in doses of ten to thirty grains.

## Powder of Jalap and Calomel.

R. Powdered jalap, ten grains. Calomel, five grains.

Mix. To be given in syrup or molasses.

As a purgative. Ellis.

R. Powdered jalap, twelve grains.
Calomel, three grains.
Sulphate of potassium,

seven grains.

Mix. Make a powder to be taken at night; a useful purge in diminishing the action of the liver.

A. T. Thomson.

## Powder of Jalap and Cream of Tartar.

R. Powdered jalap, one drachm. Cream of tartar, six drachms.

Mix, and divide into six powders. One every three hours, as a hydragogue purgative.

R. Jalap, two ounces.
Cream of tartar, one ounce.
Sugar, thirteen ounces.
Oil of orange-peel, two drachms.

Mix. Dose, one to two drachms. Cadet.

R. Powdered jalap, one ounce.
Cream of tartar, two ounces.
Mix.
U.S. Ph.

Dose, thirty grains to a drachm.

R. Powdered jalap, five ounces.
Cream of tartar, nine ounces.
Powdered ginger, one ounce.

Mix. Half a drachm to one drachm, as a hydragogue purgative.

Brit. Ph.
The last two are called compound near.

The last two are called compound powder of jalap.

## Powder of Jalap and Ipecacuanha.

R. Jalap, fifteen grains.
Ipecacuanha, five grains.
Oil of cinnamon, two drops.

Mix.

Paris.

## Powder of Jalap and Scammony.

R. Jalap, one drachm.
Scammony, one scruple.
Ipecacuanha, ten drachms.
Mix, and divide into powders of eight grains. In mucous discharges. Dumas.

#### Extract of Jalap.

R. Jalap, in powder,
No. 50, sixteen troyounces.
Alcohol, four pints.
Water, sufficient.

Moisten the jalap with three fl. ounces of Mix, and make into pills, each weighing alcohol and obtain by the process of displacement, first by alcohol, then by water, four pints of tincture and six pints of infusion. Distil off the alcohol from the tincture, and evaporate the infusion till both are of the consistence of thin honey, mix them, and evaporate to proper consist-U. S. Ph.

Brit. Ph. exhausts the jalap by maceration, first with alcohol, afterwards with water, and proceeds as before.

Dose, from ten to twenty grains.

## Resin of Jalap.

R. Jalap, in powder,

No. 60, sixteen troyounces. Alcohol,

Water, each, sufficient. Moisten the jalap with four fl. ounces of

alcohol, pack firmly in a cylindrical percolator, add twelve fl. ounces of alcohol, and macerate for four days; then displace with alcohol until the percolating tincture ceases to produce turbidity with water. Reduce by distillation to six fl. ounces, and add it, constantly stirring, to seven pints of water. Decant the liquid when clear, wash the precipitate twice with water, by decantation, press out the water, and dry the resin by a gentle heat. U. S. Ph.

The process of Brit. Ph. is essentially the same; Ph. Germ. exhausts the jalap by maceration with alcohol.

Dose, two to five grains.

## Alkaline Extract of Jalap.

R. Powdered jalap, two pounds. Alcohol (.921), one gallon. Digest for some days, strain, and filter; evaporate slowly on the water-bath to a pilular consistence, adding gradually

Carbonate of potassium, twelve drachms.

Dose, three to nine grains. Durand.

## Jalap Soap.

R. Resin of jalap,

Soap, each, four parts. Alcohol, sp. gr. .892, eight parts. Dissolve and evaporate in a water-bath to nine parts. Dose, five to ten grains.

Ph. Germ.

## Jalap Pills.

R. Jalap soap, three parts. Powdered jalap, one part.

ten centigrammes (one grain and a half). Ph. Germ.

## Compound Pills of Jalap.

R. Jalap, Rhubarb, each, one ounce. Aloes, Soap, two ounces. Syrup of ginger, sufficient. Mix, and form mass. Dose, twenty to thirty grains.

## Pills of Jalap and Calomel.

R. Resin of jalap, ) each, one Calomel, drachm. Soap, Oil of orange-peel, six drops. Mix, and make sixty pills. Alibert.

R. Jalap, Calomel, each, twelve parts. Extract of aloes, eight parts. Colocynth pulp, five parts. Resin of jalap, two parts.

Mix, and divide each troyounce of the mass into three hundred pills. This is one of the many formulas for the German or Kaiser pills.

#### Electuary of Jalap.

R. Powdered jalap,

Black sulphuret of

mercury, each, two drachms. one drachm. Scammony, Resin of jalap,

Squill, each, one drachm and a half.

sufficient. Syrup of buckthorn, Mix. Dose, half a drachm to a drachm, in dropsy or lead colic. Cadet.

R. Powdered jalap, each, half Cream of tartar, an ounce. Nitre, Confection of senna, one ounce. Simple syrup,

Mix. A bolus the size of a hazel-nut, three or four times a day, in hemorrhoids. Ellis.

## Emulsion of Jalap.

R. Resin of jalap, seven and a half grains. White sugar, one ounce. Yolk of egg, half a one.

Water, four fl. ounces.
Orange-flower water, two
fl. ounces.

Triturate the resin with a portion of the sugar, then with the yolk, and finally with the other ingredients. Paris Codex.

R. Resin of jalap, nine grains.
Soap, three grains.
Olive oil, one ounce and a half.
Triturate well. Said to be useful in dysentery. A tablespoonful, occasionally.

Vogel.

## Mixture of Jalap.

R. Infusion of senna, six fl. ounces.
Extract of jalap, half a drachm.
Tartrate of potassium, four
drachms.
Oleoresin of ginger, twenty
minims.

Mix.

Beasley.

## Tincture of Jalap.

R. Jalap, in powder,
No. 60,
Alcohol,
six troyounces.

Water, each, sufficient.

Obtain by percolation two pints of tincture, using a mixture of two measures of alcohol with one of water.

U. S. Ph.

The tincture of *Brit. Ph.* is of about the same strength, two and a half ounces of jalap and alcohol, sp. gr. .920, being used to obtain one imperial pint of tincture.

Seldom given alone, but added to cathartic mixtures, in portions of one to two fl. drachms.

## Tincture of Jalap Resin.

R. Resin of jalap, one part.
Alcohol, ten parts.
Dissolve. Ph. Germ.

## Compound Tincture of Jalap.

R. Jalap, eight ounces.
Scammony, two ounces.
Turpeth, one ounce.
Brandy, twelve pints.
Digest for twelve hours, on a water-bath, filter, and add

Syrup of senna, four pounds.

Mix. Giordano.

## Mixture of Tincture of Jalap.

R. Tincture of jalap, two fl. drachms.
Vinegar of squill, one fl. drachm.
Mint water, one fl. ounce.

Mix. To be taken three times a day.

Ellis.

## JUGLANS CINEREA.

#### BUTTERNUT.

The Butternut, or White Walnut, is an indigenous tree, with numerous, nearly horizontal, branches, found in many places in the United States.

Sex. Syst. Monœc. polyand. Nat. Syst. Juglandaceæ.

Linn. Sp. Pl. 1415. Griffith, Med. Bot.

The part used is the inner bark, especially of the root; this is fibrous, has little odor, but a bitter, somewhat acrid taste. It is, at first, white, but gradually changes to a dark brown. It is a mild cathartic, and is well suited to cases of costiveness and bowel affections. It is usually given in extract. In Europe the leaves and the rind of the green fruit of J. regia are employed as alteratives and vermifuges.

## Extract of Butternut.

R. Butternut, in powder,

No. 40, twelve troyounces. Water, sufficient.

Mix the butternut with four fl. ounces of water, pack into a percolator, and exhaust. Boil the liquid to three-fourths of its bulk, strain, and evaporate to proper consistence.

U. S. Ph.

Dose, from five to ten grains, as a laxative; from twenty to thirty, as a purgative.

#### JUNIPERUS.

#### JUNIPER.

The common Juniper, J. communis, is an erect, evergreen shrub, sometimes attaining a large size, found in Europe and Northern Asia and America. The tops and the berries are officinal.

Sex. Syst. Diœc. monadelph. Nat. Syst. Pinaceæ.

Linn. Sp. Pl. 1470. Griffith, Med. Bot.

608.

The berries are oblong globular, marked with three radiating furrows at top, and contain three seeds. They are of a purplish-black color, have a sweetish, somewhat terebinthinate taste, and a peculiar, aromatic odor. They are used as stimulating diuretics, especially as adjuvants to more active remedies. The tops have a balsamic odor, and a resinous, bitterish taste, with the same medicinal properties as the berries.

Extract of Juniper.

R. Bruised juniper berries, one part. Hot water, four parts. Macerate until cold, express gently, let subside, strain, and evaporate to the consistence of a thin extract. Dose, one to three drachms. Ph. Germ.

## Infusion of Juniper.

R. Juniper berries, bruised, one troyounce. Boiling water, one pint. Macerate for an hour, and strain. To be taken during the twenty-four hours.

U. S. Ph.

#### Compound Infusion of Juniper. (Cider Mixture.)

R. Juniper berries, bruised,) each, Mustard seed, half an ounce. Ginger, Horseradish, bruised, Parsley root, bruised, each, one ounce.

two pints. Infuse, and strain. A wineglassful, two or three times a day, in general dropsy. Parrish.

R. Juniper berries,

bruised, one ounce and a half. Boiling water, one pint. Infuse in a close vessel for two hours, strain, and add

Cream of tartar, one ounce. Mix. A teacupful, several times a day, with forty drops of sweet spirit of nitre. In dropsy. Ellis.

R. Juniper berries,

bruised, two ounces and a half. Boiling water, one pint.

Infuse for two hours, and strain; add

Compound spirit ten fl. drachms. of juniper, Dose, two fl. ounces, three times a day.

Beasley.

R. Juniper berries, four ounces. bruised, Boiling water, twelve fl. ounces. Holland gin, four fl. ounces.

Mix, and macerate for twelve hours; then throw on a cotton cloth, and express. Then let sufficient water be added to the dregs, and pressed out to make a pint. The advantages of this preparation are greater strength and permanency.

Electuary of Juniper.

R. Extract of juniper, Clarified honey, each, one pound. Juniper berries, ) each, Cinnamon, half an ounce. Orange-peel, Mix. Stomachic and diuretic. Dose, one to four drachms. Saxon Ph.

Mixture with Oil of Juniper.

R. Oil of juniper, half a drachm. Spirit of nitrous ether, Tincture of foxglove, each, three drachms.

Mix. Twenty to thirty drops every three hours. Hufeland.

R. Oil of juniper, twenty-five drops. Sugar, Gum Arabic, each, two drachms. Distilled water, four fl. ounces. Mix. A tablespoonful, every hour or two, as a diuretic.

## Spirit of Juniper.

R. Oil of juniper, one fl. ounce. Stronger alcohol, three pints. Dissolve. U. S. Ph. Brit. Ph. directs alcohol of .920 sp. gr. and the proportions 1:49.

R. Bruised juniper berries, one part. Alcohol, Water, each, three parts. Macerate for a day, and distil four parts. Ph. Germ.

#### Compound Spirit of Juniper.

R. Juniper berries, bruised, one pound.

Caraway, bruised, Fennel, bruised, each. one ounce and a half. Diluted alcohol, one gallon. Water, two pints. Macerate in the alcohol for twenty-four hours, add the water, and, with a slow fire, distil one gallon. U. S. Ph. 1840.

R. Oil of juniper, one fl. drachm and a half.

caraway, fennel, each, ten minims. Alcohol, five pints. Water, three pints. Dissolve the oils in the alcohol, and mix

W. Procter, Jr. | with the water. U.S. Ph. Dose, two to four fl. drachms, as an addition to diuretic mixtures, etc., in debilitated cases of dropsy.

## Liniment of Juniper.

one ounce and Dissolve. R. Oil of juniper, a half. six drops. Oil of anise, Lard, two ounces. Mix well; as an application in tinea ca-Sully.

pitis. R. Spirit of juniper, two ounces. Oil of cloves,

Concrete oil of nutmeg,

half a drachm.

Mix. As a friction in ecchymosis, and indolent tumors. Augustin.

## JUNIPERUS OXYCEDRUS.

## CADE JUNIPER.

The cade juniper is a shrub growing in southern Europe and Asia. The wood, which is resinous and of an agreeable, somewhat terebinthinate odor, is used for obtaining the empyreumatic oil, known as oil of cade, which is made principally in the south of France, and has a brownish-black color, and a disagreeable tar-like odor.

Sex. Syst. Diœc. monadelph.

Nat. Syst. Pinaceæ.

Oil of cade is employed in medicine externally, for the cure of cutaneous diseases. | cerate, but is much less effectual. Wood.

Tincture of Oil of Cade and Soft Soap.

R. Oil of cade,)

each, Soft soap, one ounce. Alcohol,

Oil of lavender, one fl. drachm. Tilb. Fox.

## JUNIPERUS VIRGINIANA.

## RED CEDAR.

The tops of the red cedar are officinal. This is an evergreen tree, sometimes attaining a great size, with small, fleshy, closely imbricated leaves. It is found in all parts of the United States, but is most abundant and vigorous in the South.

Sex. Syst. Diœc. monadelph. Nat. Syst.

Pinaceæ.

Linn. Sp. Pl. 1471. Griffith, Med. Bot. 609.

The leaves or tops have a peculiar and somewhat aromatic odor, a bitterish and somewhat acrid taste. They have much the same properties as those of savine, but are not as active, though often used as a substitute for them.

#### Cerate of Red Cedar.

R. Powdered red cedar

leaves, one ounce. Resin cerate, six ounces.

Mix the powder with the cerate previously softened. Used as a substitute for savine

# K.

## KINO.

#### KINO.

This is an extract obtained from several different plants, but that most used and esteemed is the product of Pterocarpus marsupium, a large tree, indigenous to some

parts of India.

It is usually in small, angular fragments, of a dark, brownish-black color, opaque and shining; of a brittle and friable consistence, an astringent and slightly bitter taste; adhering to the teeth when chewed, and tinging the saliva of a red color. It is a pow-erful astringent, and much used in the treatment of mucous discharges, etc., and as a local application in gonorrhoa, to indolent ulcers, relaxed uvula, etc. The dose in powder is from ten to thirty grains.

## Compound Powder of Kino.

R. Powdered kino, fifteen parts. opium, one part. 66 cinnamon, four parts.

Brit. Ph. Mix thoroughly.

Dose, five to twenty grains.

As an anodyne astringent, in diarrhœa and hemorrhage of the bowels.

R. Powdered kino, Sugar of milk, each, one scruple.

Mix. To be taken every three or four Radius. hours, in cardialgia.

Compound Pills of Kino.

R. Powdered kino, one scruple.
"opium, two grains.
Mucilage of gum

Arabic, sufficient.

Mix, and make four pills. One, every four hours, in diarrhœa, pyrosis, etc. Ellis.

R. Powdered kino, two scruples.

"camphor, thirty grains.

Aromatic powder, one scruple.
Oxide of zinc, ten grains.

Mucilage of gum

Arabic, sufficient.

Mix, and make twenty pills. Two, morning and evening, in diabetes.

Augustin.

## Electuary of Kino.

R. Powdered kino, six drachms.

" alum,

each, cinnamon, two drag

Syrup, sufficient.

Mix into an electuary. One drachm, two or three times a day, in diarrhœa, chronic dysentery, etc.

Swediaur.

#### Infusion of Kino.

R. Kino, two drachms.
Boiling water, eight fl. ounces.
Infuse, and strain when cool. Dose, a
fl. ounce.

Wood.

#### Injection of Kino.

R. Kino, one to two drachms.
Alum, twenty to thirty grains.
Boiling water, two pints.
Infuse for an hour, and strain. As an injection in chronic urethritis. Swediaur.

## Syrup of Kino.

two ounces.

R. Kino,

Tepid water, three pints.

Dissolve, and add
Sugar, four pounds.

Clarify, and evaporate to consistence of syrup.

Taddei.

#### Tincture of Kino.

R. Powdered kino, one part.
Alcohol, five parts.

Macerate for a week, and filter.

Ph. Germ.

Rectified spirit, one pint (imp.).

Macerate for seven days, and filter.

Brit. Ph.

two ounces.

R. Powdered kino,

R. Powdered kino, six drachms.

Mix the kino with an equal bulk of sand, introduce into a percolator, and with a mixture of two measures of alcohol with one of water, obtain eight fl. ounces of tincture.

U. S. Ph.

Dose, one to two fl. drachms, generally as an adjuvant to astringent mixtures.

## KRAMERIA.

#### RHATANY.

The roots of several species of Krameria are possessed of analogous properties, but the only one that is officinal is that of K. triandra, a small shrub found in Peru, in dry, sandy places. The stem is procumbent, and much branched, with sessile, hairy leaves, and dark red flowers. The root is long and branching.

Sex. Syst. Tetrand. monog. Nat. Syst. Poly-

galaceæ.

Ruiz & Pavon, Fl. Per. i. 93. Griffith,

Med. Bot. 227.

The dried root is of a dark, reddish-brown color, with no odor, but a bitter and astringent taste. The small roots are the most powerful. It is somewhat tonic, and powerfully astringent. It is used for most purposes to which the vegetable astringents are applied. The dose in powder is from twenty to thirty grains.

## Compound Powder of Rhatany.

R. Extract of rhatany,
Catechu, each,
Alum,
Powdered liquorice,
Mix. To be taken three or four times a
day, in diarrhœa, etc.

ten grains.
ten grains.
ten grains.
Vogt.

## Dentifrice of Rhatany.

R. Extract of rhatany,
one to two drachms.
Myrrh,
Powdered orris,
Oil of cinnamon,
" myrrh,
Balsam of Peru,
Mix well.

One to two drachms.
six drachms.
two drops.
ten drops.
ten grains.
Phæbus.

#### Extract of Rhatany.

Prepared like extract of gentian, by percolation with cold water. U. S. Ph., Brit. Ph., Ph. Germ. Dose, ten to twenty grains.

## Fluid Extract of Rhatany.

R. Rhatany, in powder,

No. 60, Sixteen troyounces. Glycerin, three fl. ounces. Water, five fl. ounces. Alcohol, eight fl. ounces.

Moisten the powder with four fl. ounces of the mixed liquids, pack firmly in a glass percolator, add the remainder of the liquid, and macerate for four days. Then, with diluted alcohol, percolate twenty-four fl. ounces, reserving the first fourteen, add to the remainder one fl. ounce of glycerin, evaporate to two fl. ounces, and mix with the reserved portion.

U. S. Ph.

## Pills of Rhatany.

R. Extract of rhatany, one scruple.
Powdered kino, sufficient.
Mix, and make eight pills. One, every hour or two, to check mucous discharges.

Ellis.

R. Extract of rhatany, one drachm.

"rhubarb, two scruples.

Ginger, one scruple.

Mix, and make twenty-four pills. Reece.

## Electuary of Rhatany.

R. Powdered rhatany, one ounce.

"ginger, one drachm.

Syrup of orange-peel, sufficient.

Mix. A teaspoonful every two or three hours.

Ferrara Ph.

#### Infusion of Rhatany.

R. Krameria, in powder,
No. 40, one troyounce.
Water, sufficient.
Obtain by percolation one pint. U. S. Ph.

R. Bruised rhatany, half an ounce. Boiling water, ten fl. ounces. Infuse for four hours, and strain.

Brit. Ph.

Dose, one to two fl. ounces.

#### Collutory of Rhatany.

R. Extract of rhatany, half a drachm.

Mucilage of quince
seed, two drachms and a half.
Sage water, one ounce and a half.

Mix. As a mouth-wash in aphthæ, etc.

Clyster of Rhatany.

R. Extract of rhatany, one scruple.

Mucilage of quince
seed, three drachms.

Iufusion of sage, one fl. ounce
and a half.

Mix. To check diarrhoa, etc. Ammon.

Injection of Rhatany.

R. Extract of rhatany, half an ounce. Tincture of catechu,

each, one drachm and a half.
To be added to a decoction of

Rhatany, ten drachms, Water, three pints, reduced to two-thirds, and strained. As an injection in leucorrhœa, and prolapsus of the uterus. Cadet.

## Mixture of Rhatany.

R. Extract of rhatany, one part.
Water, twenty parts.
Syrup of quinces, ten parts.
Dissolve and mix.

Paris Codex.

R. Extract of rhatany, one drachm. Syrup of poppies,

Rose water, each, two fl. ounces.

Mix. A teaspoonful occasionally, in passive hemorrhage and chronic dysentery.

Fouquieur.

R. Extract of rhatany, one drachm.
Chamomile water, six fl. ounces.
Elixir of vitriol, half a drachm.
Mix. As the last.

Hildebrand.

## Syrup of Rhatany.

R. Rhatany, in powder,
No. 50, sixteen troyounces.
Sugar, thirty troyounces.
Water, sufficient.

Mix the rhatany with half a pint of water, macerate for two hours, and obtain by percolation four pints of infusion; evaporate in a water-bath to seventeen fl. ounces, dissolve the sugar, and strain. Or,

R. Fluid extract of

Syrup, twelve fl. ounces.

ix. twelve fl. ounces.

U. S. Ph.

e, etc. Forty parts of syrup contain one part of Radius. extract of rhatany. Paris Codex.

## Tincture of Rhatany.

R. Powdered rhatany, six troyounces.
Diluted alcohol, sufficient.
Obtain by displacement two pints.

The tinctures of Ph. Germ. and Paris

Codex are nearly of same strength.

R. Powdered rhatany, two and a

Proof spirit, sp. gr. .920, sufficient.

Obtain by maceration and percolation, one imperial pint.

Brit. Ph.

Dose, one to two fl. drachms.

## Compound Ointment of Rhatany.

R. Burgundy pitch,
Venice turpentine,
White wax,
Extract of rhatany,
Alum,
eight parts.
two parts.
two parts.
one part.

Melt the first three ingredients over a gentle fire, and add the rhatany and alum, in fine powder, and incorporate well.

Useful where an astringent application

is indicated.

# L.

## LAC.

#### MILK.

The milk of several animals has been used medicinally, but that generally employed is from the cow. It is mostly employed in the form of whey, and of sugar of milk.

## Simple Whey.

R. Milk, two hundred parts.

Prepared rennet, one part.

Heat together to 120° till a uniform curd is formed, and strain. A good diluent in febrile affections; when boiled down to one-half it is nutritive.

Ph. Germ.

#### Clarified Whey.

R. Milk, one litre.

Boil, and add sufficient tartaric acid, dissolved in eight parts of water, to coagulate; strain with expression, mix the whey with one-half of the white of an egg, previously beaten with a little cold water, heat again to boiling, strain, and pass through a moistened filter.

Paris Codex.

## Vinegar Whey.

R. Milk, one pint.
Vinegar, half fl. ounce.
Boil a few minutes, and separate the curd.
Ellis.

#### Tamarind Whey.

R. Boiling milk, one hundred parts.

Tamarinds, four parts.

Boil till coagulation is effected, and strain.

Ph. Germ.

## Cream of Tartar Whey.

R. Boiling milk, one hundred parts.

Cream of tartar, one part.

Boil until the curd separates, and strain.

Ph. Germ.

## Alum Whey.

R. Boiling milk, one hundred parts.
Alum, one part.

Proceed as above. A glassful occasionally, in passive hemorrhages.

Ph. Germ.

#### Aromatic Alum Whey.

R. Powdered alum, one drachm.
Sugar of milk, half a drachm.
Powdered cinnamon, fifteen grains.
Milk, two pints.
Boil, and strain when coagulated. In passive uterine hemorrhages. To be taken

Niemann.

#### Mustard Whey.

during the day.

R. Bruised mustard seed, half an ounce.

Milk, one pint.

Boil till the milk is coagulated, and strain.

A cupful, as a diuretic, in dropsical affections.

A. T. Thomson.

#### Wine Whey.

dred parts. R. Boiling milk, half a pint. White wine, one to two fl. ounces. Sugar, sufficient. Boil for ten minutes, constantly stirring.

then strain. A good mode of giving wine as a stimulant. Dose must depend on circumstances.

#### Powder of Milk.

R. Milk, two pints.

Powdered carbonate
of sodium, half a drachm.
Water, one fl. ounce.
Sugar, one pound.

Dissolve the soda in the water, add the solution to the milk, gently heat, and stir. When evaporated to one-third, add the sugar gradually, and stir. Remove from fire, pour into plates, and dry in an oven. When dry, powder, and keep in well-stopped bottles. One to two ounces, mixed with a quart of water, forms an agreeable drink, and is a good substitute for milk.

Legrip.

#### Artificial Goats' Milk.

R. Fresh suet, one ounce. Cut in small pieces, and tie in a muslin bag, and boil in

Milk, two pints.
Sugar candy, two drachms.
A good diet in scrofulous emaciation, and in latter stages of phthisis.

A. T. Thomson.

#### Mixture of Milk and Suet.

R. Sheep's suet, two ounces.

Milk, one pint.

Starch, half an ounce.

Boil slowly for half an hour. As a drink, in dysentery and cholera infantum. Ellis.

#### Milk and Soda Water.

R. Milk, a teacupful. Heat nearly to boiling, and add

Sugar, a teaspoonful.

Put in a large tumbler, and add

Soda water, sufficient.

A good mode of taking milk when there is much acidity of stomach. A. T. Thomson.

## Syrup of Milk.

R. Skimmed milk, twelve pounds. Evaporate to one-half, and add

Sugar, nine pounds. Cherry-laurel water, three ounces.

China Cement.

R. Curd of milk, dried and powdered, ten ounces. Quicklime, powdered, one ounce. Camphor, two drachms.

Mix, and keep in closely-stopped bottles. When used, a portion is to be mixed with a little water into a paste, to be applied quickly. Used to cement broken glass, china, etc.

Cooley.

# LACCA.

Is a resinous substance obtained from several kinds of East Indian plants, but particularly from the *Croton lacciferum*. Many varieties are known in commerce, but the principal are seed, shell, and stick lac, of which the purest is the shell. This is in thin fragments of various shades of yellow, or reddish color; brittle, inodorous, and insipid. It is somewhat astringent, and was formerly used in medicine, but is now mainly employed in the arts, for the manufacture of varnishes, sealing wax, etc.

#### White or Bleached Lac.

R. Shell lac, at will.

Boil in solution of potassa, pass chlorine gas through the solution, and malaxate in hot water.

Redwood.

#### Aqueous Solution of Lac.

R. Shell lac, five ounces.

Borax, one ounce.

Water, one pint.

Boil together, and strain. Used as a varnish, or a vehicle for colors. Mixed with lampblack, it forms an ink that will resist the action of acids.

Cooley.

#### Cement of Shell Lac.

R. Shell lac, at will.

Alcohol, sufficient to make a solution of the consistence of molasses. Exceedingly tenacious.

Cooley.

#### Red Sealing Wax.

Wenice turpentine,
Vermilion, or best
dichromate of lead,
one pound
and a half.

Melt the lac and turpentine together, and stir in the vermilion. Gray.

the other colored waxes are made in the same manner, using the appropriate pigment.

#### LACTUCA CANADENSIS.

#### WILD LETTUCE.

L. canadensis or elongata is an indigenous, herbaceous perennial, from three to six feet high, with pale yellow flowers, growing in

woods and fertile soils.

Sex. Syst. Syngen. æqual. Nat. Syst.

Asteraceæ.

Willd. Sp. Pl. iii, 1525. Big. Seq. 241. The milk juice dried has the properties of the European lactucarium, and may be given in the same doses; see Proceed. Amer. Ph. Assoc. 1868, 405.

## LACTUCA.

#### LETTUCE.

This well-known plant is commonly cultivated for the table as a salad. It is erect and leafy, the leaves being ovate, semi-amplexicaul, and entire or toothed; the whole abounding in a bitter, milky juice.

It is anodyne and sedative, but is seldom used in this country except in the form of the extract, or lactucarium; but is employed to fulfil many indications in Europe.

#### Mixture of Lettuce and Dandelion.

R. Fresh leaves of lettuce, ) each,

root of dandelion, ounces. chicory,

Beat the whole into a pulp, adding, gradually,

Peppermint water, three fl. ounces. Express, and filter. To be taken, during the day, in hypochondriasis with insomnia.

#### Extract of Lettuce. (Thridace.)

R. Fresh bark of the stalks of lettuce, at will. Bruise, express the juice, clarify it, strain, and evaporate in a water-bath to a firm Paris Codex.

R. Flowering herb of lettuce, at will. Bruise, express the juice, heat gradually to 130° to separate chlorophyll; heat the strained liquor to 2000, and filter from coagulated albumen; evaporate the filtrate on a water-bath to a syrupy consistence, add the chlorophyll, previously separated, and evaporate at 1400 to a pilular consistence. Dose, five to fifteen grains.

Brit. Ph. Ph. Germ. removes chlorophyll and albumen by heat and gummy principles by adding alcohol to the concentrated juice.

## Syrup of Thridace.

R. Thridace, one part. Water, eight parts.

Add to the filtered solution

Syrup, forty-nine parts. Boil down to sp. gr. 1.26. Paris Codex.

#### Lactucarium.

R. Collect the milky juice that flows from incisions made in the stalks of lettuce, and allow it to harden.

## Dose, five to eight grains.

#### Pills of Lactucarium.

twelve grains. R. Lactucarium. Make six pills; one every two hours, till sleep is procured. Ellis.

R. Lactucarium, twelve grains. Conserve of elder berries, Extract of liquorice,

sufficient.

Mix, and make four pills. One, every three hours, in obstinate coughs, without expectoration.

## Mixture of Lactucarium.

R. Lactucarium, thirty grains. Decoction of Iceland moss, two ounces. Mucilage, half an ounce. Syrup, Mix. Two spoonfuls every two hours, in spasmodic cough, insomnia, hysteria, etc.

#### Syrup of Lactucarium.

R. Lactucarium, one troyounce. Diluted alcohol, sufficient. Syrup, fourteen fl. ounces. Rub lactucarium with enough diluted alcohol to a syrupy consistence; put into a conical percolator, cover the surface with muslin, and obtain with diluted alcohol half a pint of tincture; evaporate at or below 160° to two fl. ounces, mix with the heated syrup, and strain while hot. U. S. Ph.

Dose, one or two teaspoonfuls.

# Alkaline Syrup of Lactucarium.

R. Powdered lactucarium, sixtyfour grains. Carbonate of potassium, thirtytwo grains.

369

Sugar, four ounces. sufficient. Water,

Grind the lactucarium with the carbonate of potassium, till well mixed; add enough water to moisten completely; stand aside for twelve hours, and then slowly obtain two fl. ounces by percolation; add the sugar, and dissolve with a gentle heat. Each fl. drachm contains two grains of lactucarium. T. S. Wiegand.

## Syrup of Lactucarium and Opium.

R. Alcoholic extract of

lactucarium, eighteen grains. Extract of opium, Citric acid, each, nine grains. Orange-flower water, one

troyounce. fifty troyounces. Sugar, Water, sufficient.

Exhaust the extract of lactucarium with hot water, cool, filter, dissolve the sugar, add the citric acid, clarify with white of egg, evaporate, and add the solution of extract of opium in the orange-flower water. The boiling syrup should have the sp. gr. 1.26, and each tablespoonful should represent one centigramme of extract of lactucarium; the finished syrup must therefore measure nearly thirty-nine fl, ounces.

Paris Codex.

#### Tincture of Lactucarium.

R. Powdered lactucarium, four ounces. Proof spirit, two pints. Act by displacement or digestion. Ed. Ph. Dose thirty minims to two fl. drachms.

## Lozenges of Lactucarium.

R. Powdered lactucarium. two drachms.

> six ounces. sugar,

66 gum Arabic,

66 liquorice,

each. five ounces. Tincture of tolu, half an ounce. Mix, and make lozenges of ten grains.

Ed. Ph. As expectorant, in catarrhal affections.

#### Powder of Extract of Lettuce.

R. Extract of lettuce. two grains. Powdered foxglove, half a grain. twelve grains. sugar, Mix. To be taken every three hours, in hydrothorax. Hufeland.

24

#### Mixture of Extract of Lettuce.

R. Extract of lettuce, two scruples. Tincture of foxglove, half an. ounce. one drachm Cinnamon water, and a half.

Mix. Thirty drops to one fl. drachm, every two hours. Radius.

## Aromatic Tincture of Lettuce.

R. Leaves of lettuce, one ounce. one drachm. Cinnamon, Alcohol,

four fl. ounces. Water, each, Mix. Macerate for a week, express, and filter. Fifteen to thirty drops, in dropsy.

Niemann.

#### Water of Lettuce.

R. Fresh lettuce, ten parts. twenty parts. Water, Distil off ten parts. Paris Codex. Dose, half a fl. ounce to two fl. ounces.

## Syrup of Lettuce.

R. Water of lettuce, ten parts. Sugar, twenty parts. Paris Codex. Make syrup.

#### Mixture of Water of Lettuce.

R. Water of lettuce,

linden, each,

fl. ounces. orange flowers, two fl. drachms.

Syrup of poppies, one fl. ounce. Mix. A spoonful every two hours. Foy.

#### LAPPA.

#### BURDOCK.

One species of this genus is officinal in our Pharmacopæia, the Lappa minor (Arctium Lappa).

Sex. Syst. Syngen. æqual. Nat. Syst. Asteraceæ.

Linn. Sp. Pl. 1143. Griffith, Med. Bot. 411. (Lappa.)

This is a native of Europe, but generally naturalized in the United States. The parts used are the root and fruit. They are diaphoretic and diuretic, especially the latter. Dose, half a drachm to a drachm.

#### Infusion of Burdock.

R. Burdock root, one ounce. Boiling water, two pints. Infuse for six hours, and strain.

lottereau.

Used as a diaphoretic in rheumatic pains, etc.

#### Decoction of Burdock.

R. Burdock root, two ounces. Water, three pints.

Boil down to two pints, and strain.

Wood.

Dose, a wineglassful.

## LAURUS.

## LAUREL. BAY TREE.

The berries (Lauri bacca) and leaves (Lauri folia) of the Laurus nobilis, or bay tree, are used in medicine. This laurel is a small evergreen tree indigenous to the countries bordering on the Mediterranean.

Sex. Syst. Enneand. monog. Nat. Syst.

Lauraceæ.

Linn. Sp. Pl. 529. Griffith, Med. Bot.

550.

The leaves are fragrant, and have an aromatic, bitterish taste. The berries are small, oval, of a deep blue, when fresh, of a brownish-black, when dried, aromatic, and with an acrid, bitterish taste; they contain a concrete, greenish oil. Neither the leaves, nor berries, nor their products, are now much used in medicine; they are stimulant and narcotic.

#### Oil of Laurel.

R. Fresh laurel berries, at will. Crush, warm the pulp for a few moments by a gentle heat, and subject to pressure.

Guibourt.

Used as a friction, in swelling and pain in the joints, colic, etc.

#### Laurel Ointment.

R. Suet, eight ounces.

Melt, and add

Laurel oil, one pound. Essence of turpentine,

one ounce and a half.

Port. Ph.

R. Fresh laurel leaves, Laurel berries, each, one part.

Lard, two parts.

Digest until moisture has evaporated, let
settle decant and stir while cooling

settle, decant, and stir while cooling.

Paris Codex.

There are a variety of formulas for this ointment, which is much used under the name of Nervine ointment, or balsam.

## LAURO-CERASUS.

## CHERRY-LAUREL.

This is the officinal appellation of the leaves of the *Prunus lauro-cerasus*, a small evergreen tree, a native of Asia Minor, but cultivated in the temperate parts of Europe, both for ornament and for medicinal purposes.

Sex. Syst. Icosand. monog. Nat. Syst. Dru-

paceæ.

Linn. Sp. Pl. 678. Griffith, Med. Bot. 289. The leaves are ovate-oblong, smooth, and shining, with scarcely any smell when entire, but, when bruised, giving out a strong, bitteralmond odor; they have an astringent, bitter taste, with a flavor like the peach kernel. They become scentless by desiccation. They possess properties analogous to those of hydrocyanic acid, and some of the preparations from them are used for similar purposes. From the plant not being cultivated in this country, these preparations are not in use.

## Cherry-Laurel Water.

R. Fresh leaves of cherry-

laurel, one pound. Water, two pints and a half.

Chop the leaves, mix them with the water, and distil off one pint (imp.); agitate this well, and filter.

Brit. Ph.

A sedative narcotic, similar to diluted hydrocyanic acid, but of uncertain strength. Dose, thirty minims to a fl. drachm.

R. Fresh cherry-laurel

leaves, twelve parts.

Cut, bruise, and macerate with

Water, thirty-six parts. Alcohol, one part.

Distil ten parts, or sufficient that one thousand grains of the distillate shall contain one grain of anhydrous hydrocyanic acid.

Ph. Germ.

Paris Codex directs one-half this strength.

R. Essential oil of cherry-

laurel, half a drachm.

Diluted hydrocyanic acid,

six drachms.

Distilled water, twelve fl. ounces. Rub together, and filter. Hænle.

## Infusion of Cherry-Laurel.

R. Fresh leaves of cherry-

laurel, four ounces.
Cold water, two pints.

Infuse, strain, and add

Clarified honey, four ounces.

Used as a lotion in cancer of the lips, and in malignant ulcers. Cadet.

## Ointment of Cherry-Laurel.

R. Essential oil of cherrylaurel, one drachm.
Lard, one ounce.

Mix. As an application to alleviate pain of cancers.

Soubeiran.

Cherry-Laurel Water Lotion.

R. Distilled cherry-laurel

water, four ounces.

Sulphuric ether, one ounce.

Extract of belladonna,

two drachms.

Mix. Said to be very beneficial as a lotion in cases of neuralgia. Roux.

## Mixture of Cherry-Laurel Water.

R. Cherry-laurel water, sixty drops.
Peppermint water, two fl. ounces.
Infusion of quassia, four fl. ounces.
Mix. In dysentery, etc., in doses of a tablespoonful, three times a day.

Augustin.

parts.

## Cerate of Cherry-Laurel.

R. Cherry-laurel water, twelve parts.
Oil of almonds, sixteen parts.
White wax, four parts.
Melt the oil and wax together, and mix the cherry-laurel water, stirring well. As an application to burns.

Roux.

# LAVANDULA.

#### LAVENDER.

Several species of Lavandula are used in medicine, but the only one recognized by the U.S. Ph. is the Lavandula vera. This is a small shrub, a native of the south of Europe, and commonly cultivated in our gardens; it has opposite, sessile, narrow leaves, and spikes of small, blue flowers.

Sex. Syst. Didyn. gymnos. Nat. Syst. La-

Linn. Sp. Pl. 800. Griffith, Med. Bot. 501. The part used is the flowers; these have a strong, fragrant odor, and an aromatic, warm, bitterish taste. Lavender is an aromatic stimulant, and much used in nervous debility, but is mostly employed as a performed.

## Compound Powder of Lavender.

R. Lavender,
Benzoin,
Cloves,
Sal ammoniac,

Reach,
one ounce.

Petals of red roses, four ounces.
Pomegranate flowers, each,
Chamomile flowers, two
Pot marigold flowers, ounces.
Peppermint flowers, six drachms.
Myrrh, four drachms.
Cologne water, two drachms.
Solution of ammonia,

Oil of cinnamon, eighteen drops.

Mix well. To perfume rooms and drawers.

Guibourt.

## Spirit of Lavender.

R. Oil of lavender, a fl. ounce.
Stronger alcohol, three pints.
U. S. Ph.

Brit. Ph. uses nearly the same proportions (1:49), but directs proof spirit, sp. gr. .920.

R. Fresh lavender, one part.
Alcohol,
Water, each, three parts.
Mix, and after twenty-four hours distil four

#### Lavender Water.

R. Oil of lavender, one fl. ounce.
Diluted alcohol, fifteen fl. ounces.
Mix. Gray.

R. Alcohol, five gallons.
Oil of lavender, twenty ounces.
" bergamot, five ounces.
Essence of ambergris,

half an ounce.

Ph. Germ.

Iix. Brande.

R. Oil of lavender, four fl. ounces. Essence of musk, two fl. ounces. Oil of bergamot, ten fl. drachms and a half.

ten fl. drachms and a half.
Oil of cloves, five drachms.
" roses, one drachm.
" origanum, half a drachm.
Alcohol, ten pints.
Water, two pints.
Gray.

Mix.

These are used for perfumes.

R. Flowering tops of
lavender, two pounds.
Water, sufficient.
Distil four pounds by steam. Paris Codex.

## Compound Spirit of Lavender. (Compound Tincture of Lavender.)

R. Oil of lavender,

one and a half fl. drachms. Oil of rosemary, ten minims. Bruised cinnamon,

nutmeg, each, one hundred and fifty grains. Rasped red saunders,

three hundred grains. Alcohol, sp. gr. .920, sufficient. Macerate the coarse powders for seven days in two imperial pints of the alcohol; then express, strain, dissolve the oils, filter, and add alcohol to make two pints. Brit. Ph.

R. Oil of lavender, a fl. ounce. Oil of rosemary, two fl. drachms. Cinnamon, in powder,

two troyounces. No. 50,

Cloves, in powder,

No. 50, half a troyounce.

Nutmeg, in powder,

No. 50, one troyounce.

Red saunders, in powder,

three hundred and No. 50, sixty grains.

Alcohol, six pints. Water, two pints. Diluted alcohol, sufficient.

Dissolve the oils in the alcohol and add the water. Mix the powders, displace with the alcoholic solution and afterwards with diluted alcohol until eight pints have been U. S. Ph. obtained.

As a stimulant and carminative, in doses of thirty drops to a fl. drachm.

#### Ointment of Lavender.

R. Oil of lavender, anutmeg, equal parts. Butter of cacao,

Mix. To increase the growth of hair.

#### Ethereal Tincture of Lavender.

R. Oil of lavender, one part. Ether, seven parts. Mix. Dose, five to ten drops. Béral.

#### Compound Essence of Lavender.

R. Oil of lavender, forty-eight drops. cloves, thirty-two drops. orange-peel, sixteen drops. bergamot, eight drops. Sweet spirit of nitre, eight drops. Put the rinds in a bottle, add sufficient al-

Oil of yellow sandal wood, ) each, neroli, roses, drops. 66 cinnamon, one drop. Diluted alcohol, one ounce. Dissolve, and add Honey water, eight ounces. Essence of ambergris and musk, one ounce. Mix. As a perfume. Redwood.

## LEPTANDRA.

## CULVER'S ROOT .- CULVER'S PHYSIC.

L. virginica (Veronica virginica, Lin.) is indigenous to this country, where it grows in low grounds on the borders of woods, etc.

Sex. Syst. Diand. monog. Nat. Syst. Scro-

phulariaceæ.

The part employed is the subterraneous portion, which is a woody rhizome, with numerous rootlets attached; they are externally of a black color, internally whitish, inodorous, of a somewhat nauseous, bitter, and acrid taste. Leptandra is an active cathartic, and in larger doses emetic; it appears to likewise possess cholagogue properties. The dose of the powder is twenty to thirty grains. Under the incorrect name of leptandrin, the impure resin is used in the dose of about two to four grains.

#### LIMON.

#### LEMON.

The Lemon is the fruit of the Citrus limonum, a native of Asia, but now generally cultivated in all warm climates.

Sex. Syst. Polydelph. icosand. Nat. Syst.

Aurantiaceæ. Risso, Ann. Mus. xx. 201. Griffith, Med. Bot. 168.

The parts used in medicine are the juice and the outer rind; the latter has a fragrant odor, and an aromatic, bitter taste; the juice, as is well known, is very acid, with a peculiar, grateful, and refreshing taste.

## Spirit (Essence) of Lemon.

R. Oil of lemon, two fl. ounces. two pints. Stronger alcohol, Lemon-peel, freshly grated, a troyounce.

Mix. Macerate for twenty-four hours, and filter; used for flavoring mixtures, and for pastry.

R. Thin outer rinds of lemons, at will. sufficient. Alcohol,

373

cohol to cover, and macerate two days.

For pastry the flavor of this preparation is more delicate than if made from the oil usually found in the shops. Francis.

#### Tincture of Lemon-Peel.

R. Fresh lemon-peel, two ounces and a half.

Proof spirit, one pint (imp.).

Macerate for seven days, express, and filter.

Brit. Ph.

Dose, one to two fl. drachms.

## Distilled Spirit of Lemon.

R. Fresh lemon-peel, one part.
Alcohol, 80 per cent., six parts.

Macerate for two days, add sufficient water, and distil, by means of a water-bath, all the alcohol.

Paris Codex.

#### Lozenges of Oil of Lemon.

R. Oil of lemon, one drachm.
Sugar, twelve ounces.
Lemon water, sufficient.
Boil one-third of the sugar with the lemon water, to the consistence of honey, by a gentle heat, add the rest of the sugar and the oil, and form lozenges. Cottereau.

#### Lozenges of Lemon Juice.

R. Lemon juice, two ounces and a half.
Sugar, sixteen ounces.
Essence of lemon, one scruple.
Mix, and form lozenges.

Radius.

#### Collutory of Lemon Juice.

R. Lemon juice,
Sugar, each,
Claret wine,
sixteen parts.
As a mouth-wash in scurvy.

Brera.

#### Lemonade.

R. Lemon juice, four ounces
Fresh lemon-peel, half an ounce.
Sugar, four ounces.
Boiling water, three pints.

Mix, and let cool.

Ellis.

R. Lemons, three.
Boiling water, two pints.
Sugar, two ounces.

Cut the lemons in slices, pour the water on them, and add the sugar at the end of an hour, and strain.

Ratier.

## Compound Lemonade.

R. Lemons, two. Peel them, remove the seeds, and beat them with

Toasted bread, two ounces.

Adding, gradually,

Infusion of malt, one pint and a half.

Strain, and add

Syrup of mulberries, one ounce. Six ounces.

## Lemon-Peel Water.

R. Pare the rind of one lemon, previously rubbed with half an ounce of loaf sugar; put both into a jar, and add a quart of boiling water; when cold, decant, and add one tablespoonful of lemon juice.

A T. Thomson.

## Lemon Syrup.

R. Strained fresh lemon
juice,
Water, each, one pint.
Sugar, in coarse powder,
forty-eight troyounces.
Mix, and dissolve with gentle heat.
U. S. Ph.

R. Fresh lemon-peel, two ounces.
Strained lemon
juice, one pint imp.
Refined sugar, two and a
quarter pounds.

Heat the lemon juice to the boiling point, add the lemon-peel, when cool, filter and dissolve the sugar with a gentle heat. The product should weigh three pounds and a half.

Brit. Ph.

Paris Codex dissolves seventeen and a half parts of sugar in ten parts of clarified lemon juice.

## Syrup of Lemon-Peel.

R. Fresh lemon-peel, three ounces.
Boiling water, one pint.
Infuse for three days, and add
Sugar, two pounds.
The product weighs three pounds.
Guibourt.

Vinous Syrup of Lemon-Peel.	R. Oil of bergamot, 1
R. Fresh lemon-peel, half a pound.	" lemon, each,
	" cedrat, four drachms.
Wine, a pint and a half.	ceurat, four drachins.
Macerate for twenty-four hours, express,	neron,
and add	Cinnamon,
Syrup, one pound and a half.	Tosemary,
Boil, strain, and add	Alcohol, one drachm. three pounds.
Oil of lemon, rubbed	Alcohol, three pounds.
	Spirit of rosemary, three ounces.
with sugar, fifteen drops.	Digest for a few days, and distil almost to
Sard. Ph.	dryness; add to the product
AND SHAREST TO SHAREST THE SHA	
Odoriferous Spirit of Lemon.	Balm water, nine ounces.
R. Oil of lemon, ) and	Spirit of jasmine,
" hergemet each,	" orris, each, four drachms.
" lavender, one part.	Giordano.
Acetic ether, four parts.	
	B. Oil of bergamot, three ounces.
Mix. Used as a perfume. Sax. Ph.	" lemon, two ounces.
Transfer to the second	" lavender, three drachms
Cologne Water.	and a half.
R. Oil of bergamot, ) each,	
	neron, the drachins
" cedrat   Tour ounces.	and a half.
" rosemary.)	" origanum, two drachms.
" rosemary, each,	rosemary, one wittenin.
two ounces.	Essence of vanilla, two drachms.
" cinnamon, one ounce.  Alcohol, thirty pounds.  Eau de melisse, sixty ounces.	Musk, ten grains. Alcohol, thirteen pints. Rose water, two pints.
Alachol thirty nounds	Alcohol, thirteen pints.
Alcohol, thirty pounds.	Rose water, two pints.
	Orange-flower water, one pint.
Spirit of rosemary, forty ounces.	Mix, and after fourteen days, filter.
Dissolve the oils in the alcohol, add the	Gray.
other articles, and, after eight days, distil	d'ag,
four-fifths. Paris Codex.	R. Essence of bergamot, two ounces.
R. Balm, two pounds.	" rosemary,
Rosemary, eight ounces.	mint, each, one drachm.
	" lemon, two drachms.
	" neroli, ten grains.
Nutmeg,	
Cloves, each, two ounces.	Balm water, two ounces and a half.
Cinnamon,	Mix. Ferrara Ph.
Coriander,	Secretary and the second secon
Oil of bergamot, one ounce.	R. Oil of bergamot,
Alcohol, six pounds.	" lemon, each, one drachm.
Water, eight pounds.	" neroli, half a drachm.
Mix, and distil by a gentle fire.	" cedrat, twenty drops.
Niemann.	Honey water, one ounce.
R. Oil of neroli,	Alcohol, one pint.
each.	Mix. Gray.
bergamot, twelve drops	R. Oil of neroli,
orange,	
Tosemary,	" orange, each,
Cardamom, one drachm.	Temon, One dracum
Alcohol, one pint.	marjoram, and a nam.
Mix, and distil two-thirds. Said by Troms-	" rosemary, J
dorff to be the formula used at Cologne.	" cinnamon, four drops.
Niemann.	Civet, three grains.

375

Ambergris, two grains.
Alcohol, four pounds and a half.
Macerate for a month, and filter.

Cataplas
R. Cake meal,
Olive oil,

Swediaur.

R. Oil of bergamot, three drachms.

"lemon, two drachms.

"lavender, twenty-five drops.

"neroli, fifteen drops.

"origanum, ten drops.

Alcohol, two pints.

Mix. Gray.

## Unparalleled Water.

R. Oil of lemon, half an ounce.

"bergamot, two drachms and a half.

"cedrat, two drachms.

Alcohol, seventy-two ounces.

Hungary water, eight ounces.

Mix. Guibourt.

## LINUM.

## FLAXSEED.

Flaxseed is the product of Linum usitatissimum, or common flax, now cultivated in most parts of the world, but whose native country is unknown.

Sex. Syst. Pentand. pentag. Nat. Syst. Linaceæ.

Linn. Sp. Pl. 397. Griffith, Med. Bot. 206. Both the seeds and the oil extracted from them are officinal. The first are small, oval, shining, and of a brown color. They are devoid of smell, and have a mucilaginous taste when unbroken, but an oily one when chewed. When steeped in water they afford a viscid, inodorous, and almost tasteless mucilage. The oil, which is obtained by expression, is laxative and emollient, but is principally used in the arts.

principally used in the arts.

The flaxseed meal of *U. S. Ph.* consists of the ground seeds and contains the oil; that of the *Brit. Ph.* is the so-called *cake meal*, or ground flaxseed from which the oil has been

expressed.

#### Compound Meal of Flaxseed.

R. Flaxseed meal,
Barley meal,
Rye meal,

Mix. To make cataplasm. Cottereau.

#### Emollient Cataplasm.

R. Compound meal of
flaxseed,
Water,
Boil to proper consistence.

R. Compound meal of
four ounces.
Sufficient.

Paris Codex.
Mix.

## Cataplasm of Flaxseed.

R. Cake meal, four ounces.
Olive oil, half a fl. ounce.
Boiling water, ten fl. ounces.
Mix the meal gradually with the water, and add the oil.

Brit. Ph.

#### Charcoal Poultice.

ten drops. two pints.

Gray.

Gray.

Crumb of bread, two ounces.

Cake meal, one ounce and a half.

Boiling water, ten fl. ounces.

Macerate the bread in the water near the fire, mix, stir in the meal and half the charcoal, and sprinkle the remainder of the charcoal on the surface of the poultice.

Brit. Ph.

#### Cataplasm of Flaxseed Meal and Bran.

R. Flaxseed meal,
Bran, equal parts.
Boiling water, sufficient.
Pour the water on the bran and meal, and stir constantly until the poultice has a pulpy consistence.

Ellis.

## Compound Infusion of Flaxseed.

R. Flaxseed, half a troyounce.
Liquorice root,
bruised, two drachms.
Boiling water, one pint.

Macerate for two hours in a covered vessel, and strain.
U. S. Ph.
The infusion of Brit. Ph. is of about the same composition and strength.
A pleasant demulcent drink, in inflam-

## Mucilage of Flaxseed.

matory affections of the lungs, bladder, etc.

R. Flaxseed, one part.
Lukewarm water, five parts.
Digest for six hours, express, and strain.
Paris Codex.

#### Flaxseed Mixture.

B. Flaxseed, one drachm.
Boiling water, six fl. ounces.
Infuse, strain, and add
Syrup of poppies, half an ounce.
Orange-flower
water, two fl. drachms.
Mix. St. Marie.

## Clyster of Flaxseed Oil.

R. Flaxseed oil, two ounces.
" infusion, eight ounces.

Mix. Swediaur.

## LIQUIDAMBAR.

#### SWEET GUM.

This is a large and beautiful tree, indigenous to the United States. A balsam is obtained from it in the Southern States, by making incisions into the bark.

Sex. Syst. Monœc. polyan. Nat. Syst. Bal-

samifluæ.

The parts employed in medicine are the bark and the balsam. The former has an astringent and somewhat aromatic taste; the latter resembles balsam of Peru and storax in smell and taste, and is employed in some sections of the South for the same purposes and in the same doses as tolu, in the form of tincture and syrup made by the formulas for the corresponding tolu preparations.

## Syrup of Sweet Gum Bark.

R. Sweet gum bark, five troyounces. Sugar, twenty-four troyounces. Water, sufficient.

Obtain from the powdered bark, by maceration and displacement, one pint of infusion, and dissolve in it the sugar by agitation. Dose, for an adult, a fl. ounce, in diarrhœa and dysentery.

C. W. Wright.

## LIRIODENDRON.

#### TULIP TREE BARK.

The tulip tree, or Liriodendron tulipifera, is one of the most magnificent of our native trees. It is found in most parts of the United States, and is popularly known as the popular.

Sex. Syst. Polyand. polyg. Nat. Syst. Mag-

noliaceæ.

Linn. Sp. Pl. 755. Griffith, Med. Bot. 98. The officinal portion is the bark; this, when deprived of its epidermis, is of a yellowish-white color, having a faint odor, but a bitter, pungent, aromatic taste. It is a stimulating tonic, and has been used as a febrifuge, as well as in dyspepsia, chronic rheumatism, etc. The dose in powder is from half a drachm to two drachms.

#### Infusion of Tulip Tree Bark.

R. Tulip tree bark, one ounce.
Boiling water, one pint.
Infuse, and strain. Dose, one to two fl.
ounces, as a stimulating tonic and diaphoretic.

Wood.

## Tincture of Tulip Tree Bark.

R. Tulip tree bark,
bruised, four ounces.
Diluted alcohol, one pint.
Macerate for a week, express, and filter.
Dose, about a fl. drachm.

Beasley.

## LITHIUM.

#### CARBONATE OF LITHIUM.

An amorphous or minutely crystalline powder, soluble in about one hundred parts of cold water, insoluble in alcohol, and of a slight alkaline taste. It possesses diuretic and lithontriptic properties. Dose, three to six grains.

#### Effervescent Lithia Water.

R. Carbonate of lithium, ten grains.
Water, twenty ounces.
Mix and impregnate with washed carbonic acid gas under a pressure of seven atmospheres.

Dose, five to ten fl. ounces. Brit. Ph.

#### Citrate of Lithium.

R. Carbonate of lithium,

one hundred grains.
Citric acid, two hundred grains.
Distilled water, two fl. ounces.

Mix, heat until effervescence ceases, evaporate by a steam-bath to a viscid consistence, dry at a temperature of about 240°, pulverize rapidly, and keep in a well-stopped bottle.

U. S. Ph.

Brit. Ph. uses ninety grains of citric acid to fifty grains of carbonate of lithium.

Deliquescent in open air. Dose, five to ten grains.

#### LOBELIA.

#### LOBELIA.-INDIAN TOBACCO.

Several species of Lobelia are medicinal, but the only one recognized as officinal is the *L. inflata*, a small annual plant found in most parts of the United States, having numerous small blue flowers, on leafy racemes. The leaves are ovate, sessile, serrate, and hairy.

Sex. Syst. Pentand. monog. Nat. Syst. Lo-

beliaceæ.

Linn. Sp. Pl. 1006. Griffith, Med. Bot.

two fl. diaphowood. The whole herb is officinal, but the root and seed vessels are the most active. When dried, it has a somewhat unpleasant odor, and an acrid, burning, nauseous taste, resembling that of tobacco. It is emetic, and, in small doses, expectorant and sudorific. It also possesses narcotic properties. It is principally used in asthma; it has also been used in other diseases of the respiratory organs, etc. Dose in substance, as an emetic, from five to twenty grains, as an expectorant, one to three grains.

#### Infusion of Lobelia.

R. Lobelia, one ounce.

Boiling water, one pint.

Infuse. A fl. ounce every half hour, till vomiting ensues.

Ellis.

#### Tincture of Lobelia.

R. Lobelia, in powder,

No. 60, four troyounces. Diluted alcohol, sufficient.

Obtain by displacement two pints.

U. S. Ph.

The tincture of Brit. Ph. is of nearly the same strength; that of Ph. Germ. is made of ten parts of alcohol (0.892) to one part of lobelia.

Dose, as emetic, half fl. ounce; as antispasmodic in asthma, one to two fl. drachms, every two or three hours; and as an expectorant, ten to forty drops.

#### Ethereal Tincture of Lobelia.

R. Lobelia, in coarse

powder, five ounces.
Spirit of ether, forty fl. ounces.
Form tincture by maceration. Brit. Ph.
Dose, the same as alcoholic tincture.

R. Lobelia, one pound.
Alcohol, four pints.
Spirit of nitrous ether, four pints.
" sulphuric ether,

four ounces.

Macerate for fourteen days in a dark place, and filter. Dose, five to twenty minims. Whitelaw.

# Mixture of Lobelia.

R. Tincture of lobelia, one drachm.
Decoction of mallow, six ounces.
A spoonful, every two or three hours, as an expectorant.

Radius.

#### Acetic Extract of Lobelia.

R. Lobelia seed, bruised,

Diluted alcohol, four pints.
Acetic acid, one fl. ounce.

Macerate the seed in the diluted alcohol, to which the acid has been added, for forty-eight hours; then displace until four pints of tincture are obtained, using diluted alcohol to expel the last portion, and then evaporate to the consistence of an extract.

W. Procter.

#### Fluid Extract of Lobelia.

R. Bruised lobelia tops, eight ounces.

Acetic acid, one fl. ounce.

Diluted alcohol, three pints.

Alcohol, six fl. ounces.

Macerate the lobelia in a pint and a half of the diluted alcohol, mixed with the acid, for twenty-four hours; introduce into a percolator, and obtain three pints of tincture; evaporate this in a water-bath to ten fl. ounces, strain, add the alcohol, and filter. A fl. drachm is equal to half a fl. ounce of the tincture.

W. Procter.

## Vinegar of Lobelia.

R. Lobelia leaves, in powder,
No. 40, four troyounces.
Diluted acetic acid, sufficient.
Moisten the powder with two fl. ounces and afterwards displace with diluted acetic acid

until two pints of liquid have been obtained.

U. S. Ph.

## Syrup of Lobelia.

R. Vinegar of lobelia, six fl. ounces.
Sugar, twelve ounces (av.).
Dissolve the sugar in the vinegar, by aid of heat, remove the scum which rises, and strain.

W. Procter.

R. Fluid extract of lobelia, two fl. ounces. Simple syrup, ten fl. ounces. W. Procter.

## LUPULINA.

#### LUPULIN

Radius.

Radius.

Is the powder attached to the strobiles of Humulus lupulus, and has all the properties of hops. It is a yellowish powder, mixed with portions of the scales of the hop strobiles. It is tonic, and somewhat narcotic. It is obtained by rubbing, or threshing and sifting the strobiles, or by washing these several times in different portions of water, mixing the washings, and letting the lupulin deposit, when it is to be dried. The dose is from six to ten grains.

#### Powder of Lupulin.

R. Lupulin, one part.
Sugar, two parts.
Mix. Dose, ten to twenty grains. Foy.

#### Pills of Lupulin.

R. Lupulin, at will.

Rub into mass in a warm mortar, and divide into two grain pills.

Magendie.

R. Lupulin, two drachms. Gum tragacanth,

Water, each, sufficient.

Make mass, and divide into pills of two grains.

## Extract of Lupulin.

R. Lupulin, four ounces.

Alcohol, eight fl. ounces.

Mix in a percolator, and allow to stand for an hour. Displace until two pints of filtered liquor are obtained; then set aside in a shallow dish for spontaneous evaporation. One drachm of lupulin yields two scruples of extract.

Livermore.

## Tincture of Lupulin.

R. Lupulin, four troyounces.
Alcohol, sufficient.

Obtain by displacement two pints.

Dose, one to two fl. drachms, in sweetened water.

#### Syrup of Lupulin.

R. Tincture of lupulin, one part.

Syrup, seven parts.

Mix. Dose, half an ounce to an ounce.

Foy.

#### Fluid Extract of Lupulin.

R. Lupulin, sixteen troyounces.
Stronger alcohol, sufficient.
Moisten lupulin with six fluidounces of the alcohol, pack tightly into a percolator, add ten fluidounces of stronger alcohol, and macerate for four days; then displace twenty-four fluidounces, reserving the first fourteen, evaporate the remainder to two fl. ounces, and mix with reserved portion.

U. S. Ph.

Dose, five to ten minims.

#### Oleoresin of Lupulin.

R. Lupulin, twelve troyounces. Ether, sufficient.

Obtain by slow percolation twenty fl. ounces, distil and evaporate the ether completely.

U. S. Ph.

Dose, one to three grains.

#### Emulsion with Lupulin.

R. Tincture of lupulin, four scruples.
Syrup of red poppies,
of orange flowers,
each, one ounce.
Emulsion of almonds, four ounces.
Water, ten ounces.

Mix. Béral.

## Ointment of Lupulin.

R. Lupulin, one part. Lard, three parts.

Digest, on a water-bath, for five or six hours, and strain. To appease the pain of cancerous ulcers.

Soubeiran.

## LYCOPODIUM.

#### LYCOPODIUM .- CLUBMOSS.

Lycopodium clavatum is a small moss-like plant indigenous to North America, Europe, and Northern Asia.

Sex. Syst. Cryptogam. lycopod. Nat.

Syst. Lycopodiaceæ.

The sporules of this and some allied species are used. It forms a fine mobile grayish-yellow powder, which is with difficulty moistened by water. It is now chiefly applied externally as an exsiccant to excoriated surfaces.

## Mixture of Lycopodium.

R. Lycopodium, three drachms.
Water, two fl. ounces.
Syrup of marsh mallow, one
fl. ounce.

Mix by trituration. Dose, a dessertspoonful every hour or two. In strangury and dysuria, particularly of infants. *Hufeland*.

#### Compound Powder of Lycopodium.

R. Lycopodium, one ounce.
Oxide of zinc, two to three scruples.

oyounces. Mix thoroughly. As a dusting powder in sufficient. excoriation of infants. Berends.

## LYCOPUS VIRGINICUS.

#### BUGLEWEED.

This is an herbaceous plant indigenous to this country, with an obtusely quadrangular often purplish stem, lanceolate serrate leaves, and whitish flowers.

Sex. Syst. Didynam. gymnosperm. Nat. Syst. Lamiaceæ.

Bugleweed possesses mild astringent properties, and is believed to act somewhat as a narcotic; it has been recommended in hæmoptysis, and incipient consumption. It is given in doses of a scruple to a drachm in the form of infusion.

# M.

## MACIS.

#### MACE.

A laciniated and reticulated, smooth, thin, flexible membrane, of a saffron-yellow color, which is the arillus investing the shell of the nutmeg, which, in taste and odor, it much resembles. It is an active, aromatic stimulant, but is more used for culinary purposes than in medicine. The dose is from ten grains to a scruple.

## Tincture of Mace.

R. Mace, one part.
Alcohol, five parts.

Macerate for eight days, express, and filter.

Ph. Germ.

Dose, from thirty to forty drops, as a carminative and stomachic.

#### Volatile Oil of Mace.

R. Mace, bruised, at will. Water, sufficient.

Distil and separate the oil. Guibourt.

#### Carminative Drops.

R. Volatile oil of mace, half a drachm.
Nitrous ether, a drachm and a half.
Mix. In flatulent colic. ten or twelve drops on sugar.
Radius.

#### MAGNESIUM.

This metal is not used, but many of its compounds are largely employed.

## MAGNESIA.

#### MAGNESIA.

R. Carbonate of magnesium, any quantity.

Put in an earthen vessel, and expose it to a red heat for two hours, or till the carbonic acid is wholly expelled.

U. S. Ph.

## Heavy Magnesia.

R. Heavy carbonate of magnesium, any quantity. Expose to a low red heat until free from carbonic acid.

Brit. Ph.

R. Mix solutions of one hundred and twenty-three parts of crystal-lized sulphate of magnesium, and one hundred and forty-four parts of crystallized carbonate of sodium; evaporate to dryness and calcine till the carbonic acid is expelled. Dissolve out the sulphate of sodium, wash, and dry.

R. Phillips.

#### Powder of Magnesia and Rhubarb.

R. Powdered rhubarb, one scruple.

Magnesia, ten grains.

Oil of cinnamon, one drop.

Mix. As a purgative, to be given in sugar and water.

Ellis.

#### Powder of Magnesia and Sulphur.

R. Precipitated sulphur,

Magnesia, each, half an ounce.

Mix. A teaspoonful, three or four times a day, as an aperient.

Ellis.

#### Powder of Magnesia and Orange-Peel.

R. Magnesia, four drachms. Powdered orange-peel, "fennel-seed,

each, one drachm.
Sugar, two drachms.

Mix. Ten or twelve grains, three times a day, as a stimulant to the digestive organs.

Foy.

#### Troches of Magnesia.

R. Magnesia, three troyounces. Sugar, powdered, nine troyounces.

Nutmeg, powdered, one drachm. Mucilage of tragacanth, sufficient. Rub the first three ingredients together until thoroughly mixed, then form a mass with the mucilage, and divide into four U. S. Ph.

hundred and eighty troches. U. S. Ph. The troches of Ph. Germ. are made with chocolate mass, and contain one grain

and a half of magnesia.

## Magnesia Mixture.

one drachm. R. Magnesia, Water of ammonia, one fl. drachm. Spirit of cinnamon, three fl. drms. Water, five and a half fl. ounces.

Mix. Recommended by Dr. James, in the cardialgia of pregnant women. Two or three teaspoonfuls to be taken as occasion may require. Sims.

R. Magnesia, two drachms. Water, ten drachms. twelve drachms Sugar, and a half.

Orange-flower water, five drachms. Triturate the magnesia with the water, and heat to boiling, stirring constantly, then add the sugar, and when dissolved, the orange-flower water, and strain through a fine sieve. To be taken at one dose.

Paris Codex.

thirty grains. R. Magnesia, Syrup of ginger, two drachms. Peppermint

water, two fl. ounces and a half.

Compound spirit of

half fl. drachm. lavender, Spirit of caraway, half fl. ounce.

Mix. A spoonful every hour, as an antacid. Foy.

#### Magnesia and Gentian.

one drachm. R. Magnesia, Infusion of gentian, six fl. ounces. A wineglassful, three times a day, in cases of uric-acid diathesis. Brande.

## Magnesia and Rhubarb Mixture.

R. Magnesia, half a drachm. Powdered rhubarb, two grains. sugar, one drachm. Essence of peppermint, six drops. Distilled water, one fl. ounce and a half.

Mix. In bowel complaints of children. A teaspoonful, every two hours, till it operates.

## MAGNESII ACETAS.

ACETATE OF MAGNESIUM.

R. Carbonate of magnesium, one hundred and twenty parts. Acetic acid,

Evaporate till the mixture to saturate. weighs three hundred parts. It forms a syrupy fluid. One ounce of this solution mixed with three ounces of syrup of oranges constitutes the weaker solution, and one ounce and a half to three ounces of syrup forms the stronger solution. Renault.

## MAGNESII CARBONAS.

CARBONATE OF MAGNESIUM.

## Light Carbonate of Magnesium.

R. Sulphate of magnesium, ten ounces. Carbonate of sodium, twelve ounces.

Dissolve the salts separately, each in five pounds of water, mix cold, boil for fifteen minutes, wash thoroughly upon a calico filter with boiling distilled water, and dry at or below 212°.

## Heavy Carbonate of Magnesium.

R. Sulphate of magnesium, ten ounces. Carbonate of sodium, twelve ounces.

Dissolve the salts separately, each in twenty ounces of boiling water, mix, and evaporate by a sand-bath to dryness; digest the residue for half an hour with forty ounces of water, transfer to a calico filter, wash well, and dry at or below 212°.

Brit. Ph. Dose of the carbonates, ten to sixty grains.

## Solution of Carbonate of Magnesium.

R. Sulphate of magnesium, two ounces.

Carbonate of sodium, two ounces and a half.

Dissolve the salts separately, each in ten ounces of water, mix boiling hot, and boil until carbonic acid ceases to be evolved. Wash the precipitate thoroughly, then mix with twenty ounces of distilled water, pass an excess of pure carbonic acid gas into the mixture; let remain in contact under pressure for twenty-four hours, filter, impregnate again with carbonic acid, and bottle. It contains about thirteen grains of carbonate of magnesium in a fl. ounce. Brit. Ph.

R. Sulphate of magnesium, seven drachms.

Bicarbonate of sodium, nine drachms.

Water, twenty fl. ounces.

Carbonic acid gas, six volumes.

Dissolve the salts in the water, and pass the gas through the mixture. The result will be bicarbonate of magnesium and sulphate of sodium in solution. Phæbus.

## Dinneford's Fluid Magnesia.

R. Howard's magnesia, seventeen and a half grains.

Distilled water, one fl. ounce.

Introduce into a cylindrical tinned vessel a mixture in these proportions, and force into it carbonic acid for five hours and a half, during the whole of which time the cylinder is kept revolving.

Pereira.

## Lozenges of Carbonate of Magnesium.

R. Carbonate of magnesium, ten parts.

Powdered sugar, forty parts.

Mucilage of tragacanth, sufficient.

Make into lozenges of fifteen grains each.

Dose, five to ten.

Paris Codex.

#### Magnesia with Rhubarb.

R. Carbonate of
magnesium, twelve drachms.
Powdered sugar, ten drachms.
"rhubarb, three drachms.
Oil of fennel, twenty drops.
Mix to a uniform powder.
Used like the compound rhubarb powder of the U. S. Ph.

#### Dewees's Carminative.

R. Carbonate of
magnesium, half a drachm.
Tincture of assafetida, forty drops.
"opium, twenty drops.
Sugar, one drachm.
Distilled water, one fl. ounce.
Mix. In flatulent colic, diarrhæa, etc., of children. Dose, twenty drops and upwards, according to age.

Dewees.

#### Dalby's Carminative.

R. Carbonate of
magnesium, two scruples.
Oil of peppermint, one drop.
" nutmeg, two drops.
" aniseed, three drops.

Tincture of castor, thirty drops.

"assafetida, fifteen drops.

Spirit of pennyroyal, fifteen drops.

Compound tincture of cardamom, thirty drops.

Peppermint water, two fl. ounces.

Mix.

Paris.

R. Carbonate of half an ounce. potassium, Carbonate of twelve ounces. magnesium, Laudanum, six fl. ounces. Oil of peppermint, each, two caraway, fl. scruples. 66 fennel, Sugar, thirty-five ounces. Water, ten pints. Triturate the oils with the sugar and magnesia, then add the remainder. Phil. Coll. Ph.

## Carbonate of Magnesium Mixture.

R. Carbonate of half a drachm. magnesium, Sulphate of magnesium, three drachms. Aromatic spirit of ammonia, one fl. drachm. Tincture of rhubarb, half fl. ounce. henbane, fl. drachm. Mint water, four fl. ounces. As a carminative cathartic. tablespoonful, two or three times a day.

## Magnesia and Colchicum.

Meigs.

R. Carbonate of
magnesium, one drachm.
Sugar,
Gum Arabic, each,
Wine of colchicum
root, forty drops.
Distilled water, four fl. ounces.
Mix. In gout and rheumatism. A tablespoonful, every two hours, till it operates.
Ellis.

#### Mixture of Magnesia and Camphor.

R. Magnesia, one drachm.
Camphor, half a drachm.
Sugar,
Gum Arabic, each, two drachms.

Sulphuric ether, half fl. drachm. Distilled water, four fl. ounces.

Mix. In flatulency and irritable stomach.

A tablespoonful, four or five times a day.

Ellis

## MAGNESII CITRAS.

CITRATE OF MAGNESIUM.

R. Citric acid, at will.

Dissolve in water, and add

Carbonate of magnesium, sufficient to saturate; wash the powder, and dry by a gentle heat. Laxative, but not as active as the sulphate.

Beasley.

## Soluble Citrate of Magnesium.

R. Crystallized citric

acid, one hundred grains. Calcined magnesia, thirty-five

grains.

Water, fifteen drops. Dissolve the acid with the water, then gradually add the magnesia; or omit the water and melt the acid in a sand-bath in its own water of crystallization, and incorporate the magnesia with it. The mixture soon hardens, and may be pulverized for use

This formula is modified from one given by Dorvault, of Paris. Parrish & Smith.

#### Granular Citrate of Magnesium.

R. Carbonate of

magnesium, twenty-five parts. Citric acid, seventy-five parts. Mix, with sufficient water, to a thick pulp, and dry at or below 85°. With fourteen parts of this dry mass, mix

Bicarbonate of

sodium, thirteen parts.
Citric acid, six parts.
Sugar, three parts.

Moisten the mixture with sufficient alcohol, rub through a suitable sieve, and dry carefully.

Ph. Germ.

Dose, a tablespoonful or more, in water, during effervescence.

## Solution of Citrate of Magnesium.

R. Soluble citrate of magnesium, one ounce. Water, eight fl. ounces.

half fl. drachm. Dissolve, transfer to a suitable bottle, and

Syrup, one and a half fl. ounces. Bicarbonate of

potassium, forty grains.

Cork immediately and secure.

Parrish & Smith.

R. Carbonate of

magnesium, two hundred grains.

Crystallized citric

acid, four hundred grains.

Bicarbonate of

potassium, forty grains.
Syrup of citric acid, two fl. ounces.
Water, sufficient.

Dissolve the acid in four fl. ounces of water, and add the carbonate of magnesium; when dissolved, filter into a strong twelve-ounce bottle containing the syrup, add the bicarbonate and enough water to nearly fill the bottle, cork, secure with twine, and shake occasionally until the crystals are dissolved.

U. S. Ph.

Dose, from a half to a whole bottle.

## Citrate of Magnesium Water.

R. Carbonate of magnesium,

five drachms and a quarter.
Citric acid, five drachms and a half.
Lemon syrup, two drachms
and a half.

Water, sufficient

to fill a Seidlitz-water bottle. Dissolve the acid in one-sixth of the water, triturate the carbonate with the remainder, and add to it half the acid solution; and, on the ceasing of the effervescence, pour it into the bottle with the syrup, add the acid solution, and cork instantly. As a purgative draught.

Bardet.

# MAGNESII PHOSPHAS.

PHOSPHATE OF MAGNESIUM.

R. Magnesia, at will. Diluted phosphoric acid, sufficient

to saturate; filter, and evaporate to dryness.

Niemann.

eight fl. ounces. Stated to be useful in rachitis, in doses of ten to twenty grains.

## MAGNESII SULPHAS.

SULPHATE OF MAGNESIUM. (EPSOM SALTS.)

#### Cheltenham Salts.

R. Sulphate of magnesium, Chloride of sodium,

each, four parts.
Sulphate of sodium, three parts.
To be well dried before being powdered and mixed. Dose, half an ounce, or more, in solution.

Cooley.

The compound saline powder of the Ed. Ph. differs from this, in the substitution of sulphate of potassium for the sulphate of sodium.

#### Seidlitz Water.

R. Sulphate of
magnesium, two drachms.
Chloride of
magnesium, eighteen grains.
Soda water, twenty fl. ounces.
Dissolve. As a purgative. Foy.

R. Sulphate of magnesium, two drachms to one ounce.

Water, one pint.

Dissolve, and charge the solution with three volumes of carbonic acid gas.

Beasley.

Purgative Emulsion.

R. Sulphate of magnesium, two drachms.

Flake manna, one ounce. Simple emulsion, four fl. ounces.

Dissolve. A tablespoonful every two hours.

Wendt.

#### Sulphate of Magnesium and Tartar Emetic.

R. Sulphate of magnesium, one ounce.

Tartar emetic, one grain.
Flake manna, one ounce.
Lemon juice, half an ounce.
Water, eight fl. ounces.

Make a solution, and strain. A tablespoonful, every hour, till it operates. Dewees.

## Sulphate of Magnesium and Coffee.

R. Sulphate of magnesium, one ounce.

Powdered roasted coffee, two drachms and a half.

Water, sixteen ounces.

Boil in an earthen vessel, for two minutes; remove from fire, and let infuse for some minutes; then filter, or strain. This will destroy the bitter taste of the salt.

Combes.

## Clyster with Sulphate of Magnesium.

R. Sulphate of magnesium, one ounce.
Olive oil, one fl. ounce.
Mucilage of starch, fifteen fl. ounces.

Dissolve and mix. One-half to be injected, and if it does not produce the desired effect, the remainder to be administered.

Brit. Ph.

# Sulphate of Magnesium and Sulphuric Acid.

R. Sulphate of magnesium, sufficient to saturate

Water, seven fl. ounces.

Add to solution,

of water.

Diluted sulphuric acid, one fl. ounce.

Dose, a tablespoonful, in a wineglassful of water, every hour, till it operates.

Henry.

Christison.

#### Sulphate of Magnesium and Rochelle Salt.

R. Sulphate of magnesium,
Tartrate of potassium and
sodium, equal parts.

Dose, two to three drachms, in six ounces

## Sulphate of Magnesium, Aloes, etc.

R. Sulphate of magnesium, six drachms.

Carbonate of magnesium, ninety grains.

Wine of aloes, six fl. drachms.

Tincture of hops, two fl. drachms.

Dilute hydrocyanic

acid, fifteen minims.

Infusion of cascarilla, seven fl. ounces.

Mix. A tablespoonful, morning and evening, in dyspepsia accompanied with costiveness. L. Parker.

# Sulphate of Magnesium and Nitric Acid.

R. Sulphate of magnesium, half an ounce.
Tincture of jalap, one fl. drachm.
Nitric acid, two drops.
Mint water, two fl. ounces.
Mix. To be taken for a draught. Ellis.

## MAGNESII SULPHURETUM.

SULPHURET OF MAGNESIUM.

R. Pure magnesia, five parts.
Sulphur, four parts.
Fuse together. Dose, five to ten grains.

Jourdain.

## Syrup of Sulphuret of Magnesium.

R. Sulphuret of magne-

sium, half an ounce. Fennel-water, six ounces.

Dissolve, strain, and add

Sugar, fifteen ounces.
Said to be useful in chronic exanthemata, hooping-cough, etc. Dose, a spoonful occasionally.

Radius.

## MAGNESII TARTRAS.

TARTRATE OF MAGNESIUM.

R. Solution of tartaric acid, at will. Carbonate of magne-

sium, sufficient

to saturate. Evaporate the solution to dryness, in a water-bath. Used by Rademacher, in painful chronic maladies of the spleen. Dose, one scruple to one drachm. *Pereira*.

#### Aperient Effervescing Magnesia.

R. Carbonate of magnesium, one part.

Sulphate of magnesium,
Bi-carbonate of sodium,
Tartrate of sodium and potassium,
Tartaric acid,

cone part.

two
parts.

Drive off the water of crystallization by heat, reduce to powder, mix thoroughly, and inclose in dry, strong bottles, which are to be well corked, and sealed with wax. Dose, a teaspoonful, in half a tumbler of water, drunk in a state of effervescence.

Durand.

#### Bi-Tartrate of Magnesium.

R. Tartaric acid, one hundred and twenty-five parts.

Distilled water, two thousand parts.

Dissolve, and add gradually Carbonate of magne-

sium, one hundred and fiftyseven parts.

Evaporate and crystallize. Ph. Hanov.

## MAGNOLIA.

The barks of several species of Magnolia are employed as stimulating tonics in the United States, those of M. glauca, M. acuminata, and M. tripetala being recognized by the pharmacopæia. They are stimulating, bitter tonics, with some diaphoretic powers, and the decoction has been used with some success in intermittent fevers and rheumatism, as has also a tincture of the cones. Dose, in powder, half a drachm to a drachm.

## Tincture of Magnolia.

R. Recently-dried bark, or
cones of magnolia, four ounces.
Diluted alcohol, one pint.
Macerate for a week, express, and filter.
In chronic rheumatism.

Beasley.

# MALTUM.

#### MALT.

Malt is barley germinated by warmth and moisture, and then subjected to such a degree of heat as to destroy the vital principle. It contains sugar, gum, and hordein, and is principally used in the manufacture of malt liquors.

#### Infusion of Malt.

R. Ground malt, one pint.
Scalding water, three pints.
Infuse for two hours, strain, and add sugar or lemon juice, if required.

Much prescribed by the late Dr. Parrish, as a drink in inflammatory fevers.

## Extract of Malt.

R. Ground malt, one part.
Cold water, one part.
Macarata for three hours, then add

Macerate for three hours, then add

Water, four parts. Digest at 140° to 150° for one hour, heat to boiling, express, strain, and evaporate with constant stirring to a soft extract.

Ph. Germ.

## Emollient Clyster.

) each, R. Ground malt, Powdered mallow root, two drachms. Pearl barley, one quart. Water,

Boil down to a pint, and strain. Phæbus.

#### MALVA.

## COMMON MALLOW.

Several species of Mallow are recognized as officinal in the European pharmacopæias, and, although they are very similar in their properties, that most generally employed is the M. sylvestris, the leaves and flowers being the officinal parts.

Sex. Syst. Monadelph. polyand. Nat. Syst.

Malvaceæ.

They are emollient and demulcent, but are seldom employed in this country.

## Species for Gargles.

R. Mallow flowers, equal Elder flowers, parts. Marsh mallow leaves, Cut, and mix. Ph. Germ.

## Emollient Species.

R. Mallow leaves, Marsh mallow leaves, equal Melilot, parts. German chamomile, Flaxseed,

Cut and bruise; mix. Ph. Germ.

R. Leaves of mallow, marsh mallow, equal mullein, parts. 66 parietaria,

Cut and mix. Paris Codex.

## Compound Decoction of Mallow.

R. Dried mallow, Dried chamomile, half an ounce. Water, one pint. Boil for a quarter of an hour, and strain. Employed for fomentations and enemata.

Lond. Ph. 1836.

# MANGANESIUM.

#### MANGANESE.

This metal is never employed in medicine, but several of its oxides and salts have obtained some celebrity.

## MANGANESII CARBONAS.

#### CARBONATE OF MANGANESE.

R. Peroxide of manganese, at will. Wash in very dilute muriatic acid, dissolve in strong muriatic acid, and evaporate to dryness. Dissolve part in water, and precipitate with carbonate of sodium, wash precipitate, and digest it with a solution of the rest of the salt. Filter, and precipitate by carbonate of sodium, wash, and dry.

# Pills of Carbonate of Manganese and

R. Crystallized sulphate of iron, seventy-five parts. Sulphate of manganese, twenty-five parts. Crystallized carbonate of sodium, one hundred and

twenty parts. Honey, sixty parts. Water, sufficient.

Mix well, and divide into pills of three grains. Burin Dubuisson.

## MANGANESII CHLORIDUM.

CHLORIDE OF MANGANESE.

R. Muriatic acid, at will. Carbonate of manganese,

sufficient

to saturate; evaporate, and crystallize. Preserve in closely-stopped bottles. A solution in water has been praised as a gargle in aph-Jourdain. thous sore throat.

## Pills of Chloride of Manganese.

R. Chloride of manganese,

two scruples.

Gum Arabic, Extract of liquorice, each. one scruple. Mix, and form pills of two grains. Advised in obstinate cutaneous affections, in doses of from five to ten. Augustin.

# MANGANESII IODIDUM.

IODIDE OF MANGANESE.

#### Pills of Iodide of Manganese.

R. Iodide of potassium, Sulphate of manganese, equal parts. sufficient. Honey,

which are to be kept in a well-stopped bottle. Dose, one pill, gradually increased to six pills, daily. Hannon.

## Syrup of Iodide of Manganese.

R. Sulphate of manganese,

sixteen drachms.

Iedide of potassium,

nineteen drachms.

Sugar,

Water, each, sufficient.

Dissolve each of the salts in three fl. ounces of water containing two drachms of syrup; mix, and after precipitation, filter the solution into a bottle containing twelve ounces of sugar; add water to make a pint, and shake the bottle till the sugar is dissolved. Each fl. ounce contains one drachm of iodide of manganese. Dose, ten drops to half a fl. drachm.

W. Procter, Jr.

R. Iodide of potassium, three hundred and thirty grains. Tartaric acid, two hundred and sixty-four grains.

Dissolve each in one and a half fl. ounces of water; mix, filter, and saturate the remaining hydriodic acid with carbonate of manganese. Then filter, and add sufficient syrup to make six fl. ounces. Each fl. ounce contains fifty grains of the iodide of manganese. Livermore.

## Syrup of Iodide of Iron and Manganese.

R. Iodide of potassium, one thousand grains. Proto-sulphate of iron, hundred and thirty grains. Proto-sulphate of manganese, two hundred and ten grains. Clean iron filings, one hundred four thousand Powdered sugar, eight hundred grains. Distilled water, sufficient.

Rub the sulphates and iodide separately to powder, mix with the iron filings, add half a fl. ounce of water, and rub to an uniform paste; add the same quantity of water a second and a third time, at intervals of fifteen minutes, and rub. Place the sugar in a bottle, and drain the dense solution into it through a filter, adding water slowly to the magma, until the solution of the iodides is displaced, and the water measures

Form mass, and divide into four-grain pills, | twelve fl. ounces. Lastly, agitate the bottle till the sugar is dissolved. Each fl. ounce contains fifty grains of the iodides, in the proportion of three parts of iodide of iron to one of iodide of manganese. Dose, ten to twenty drops. W. Procter, Jr.

## MANGANESII OXIDUM.

BLACK OXIDE OF MANGANESE.

## Powder of Oxide of Manganese.

B. Oxide of manganese, two grains. Magnesia, one scruple. Mix. To be taken every three hours, in chlorosis. Brera.

## Bolus of Oxide of Manganese.

R. Oxide of manganese, fourteen grains.

Extract of savin, Aloes, each, ten grains. Mix, and divide into six boluses; to be taken during the day, as an emmenagogue. Niemann.

## Ointment of Oxide of Manganese.

R. Oxide of manganese, one part. Lard, two parts. Mix thoroughly. Giordano.

## Ointment of Oxide of Manganese and Sulphur.

R. Oxide of manganese,) each, Sulphur, one ounce. Soap, Lard, three drachms. Beasley.

Both these ointments have been recommended in porrigo and other skin diseases.

## MANGANESII PHOSPHAS.

PHOSPHATE OF MANGANESE.

R. Sulphate of manganese, four ounces.

Phosphate of sodium, five ounces. sufficient. Water,

Dissolve the salts each in two pints of water, mix the solutions, wash the precipitate until the sulphate of sodium is removed, press in bibulous paper, and dry.

W. Procter, Jr.

## MANGANESII SULPHAS.

SULPHATE OF MANGANESE.

R. Black oxide of manganese, ten parts.

Pounded coal, one part.

Ignite in a gas retort. Dissolve the protoxide thus formed in sulphuric acid, with the addition at the end of a little hydrochloric acid; then evaporate the sulphate to dryness, and heat again to redness in the gas retort. By this process the iron present is rendered insoluble, while the sulphate of manganese may be dissolved out and crystallized.

Graham.

R. Carbonate of manganese, at will.

Diluted sulphuric acid, sufficient
to saturate. Evaporate and crystallize.
Dose, one to two drachms, in half a pint of
water; to be taken before breakfast, as a
cholagogue cathartic.

Beasley.

# MANNA.

#### MANNA.

This is the exudation of several varieties of Fraxinus ornus, or Ornus Europæa; a small tree found in the south of Europe.

Sex. Syst. Diand, monog. Nat. Syst. Olea-

ceæ.

Linn. Sp. Pl. 1510. Griffith, Med. Bot. 445.

There are several varieties of manna-flake, common or in sorts, and fat. The first is the best and purest. It consists of sugar, a peculiar principle called mannite, and a viscous, nauseous matter. Manna is a gentle laxative, but sometimes causes flatulence and pain. Dose, for an adult, one to two ounces; for children, one to four drachms.

#### Lozenges of Manna.

R. Mallow root,

Water, each, four ounces.

Boil a short time, and add

Manna, twelve ounces. When dissolved, strain, and add

Sugar, six pounds.

Opium, dissolved

in water, twelve grains.

Evaporate to the consistence of an electuary, and add

Orange-flower water, three ounces.

Essence of bergamot,

citron, each, four drops.

Evaporate to proper consistence, pour on a marble slab, and divide into lozenges.

Guibourt.

## Syrup of Manna.

R. Manna, three parts. Water, twelve parts. Dissolve and filter, then add

Sugar, sixteen parts. Heat to boiling. Ph. Germ.

#### Emulsion of Manna.

R. Sweet almonds, half an ounce.

Manna, two ounces.

Syrup of peach flowers, one fl. ounce.

Infusion of liquorice, four fl. ounces.

Orange-flower water, half fl. ounce.

Make an emulsion. Radius.

R. Manna,

Oil of almonds, each, one ounce. Carbonate of potassium, twelve grains.

Cinnamon water,

Water, each, three fl. ounces.

Rub the first three ingredients together, and gradually add the waters. Two fl. ounces to be taken daily, in divided doses, in inflammation of the kidneys.

Babington.

Barlow.

#### Manna Mixture.

R. Sulphate of magnesium, one ounce.

Manna, six drachms.
Tincture of senna, one fl. drachm and a half.
Boiling water, five fl. ounces.

Mix. As a purge.

Ainslie.

R. Manna, one ounce.
Sulphate of sodium, one ounce and a half.
Water, six fl. ounces.
Mix.

Augustin.

R. Manna, ninety grains.

Tartrate of potassium, two
drachms.

Wine of colchicum, twenty
minims.

Tincture of cardamom, one
drachm.

Compound infusion
of senna, ten fl. drachms.

Make a draught. As an aperient in gout.

## MANNITUM.

#### MANNITE.

R. Common manna, six pounds. Distilled water, white of egg, one.

Mix, and boil for a few minutes; strain when cold; press impure mannite in a cloth; mix it with its weight of water, and again press. Dissolve in boiling water, with animal charcoal, filter, evaporate to a pellicle, and set aside to crystallize.

Ruspini.

R. Manna, one part. Boiling water, three parts.

Dissolve, and add subacetate of lead to separate gummy and resinoid matters; filter through muslin, and precipitate excess of lead by dilute sulphuric acid. Filter through paper, and concentrate by gentle heat to consistence of syrup. Pour the hot syrup into twice its bulk of cold alcohol, which will precipitate the mannite as the solution cools.

C. T. Bonsall.

Dose, from two drachms to two ounces.

#### MARANTA.

#### ARROWROOT.

Arrowroot is the fecula of the roots or rhizomes of many plants, but that in common use is derived from the Maranta arundinacea, a native of the West Indies.

Sex. Syst. Monand. monog. Nat. Syst

Marantaceæ.

Linn. Sp. Pl. 2. Griffith, Med. Bot. 637.
West Indian arrowroot is a light, white
powder, tasteless and inodorous. It has a
firm feel, and crackles when pressed. It is
nutritious and demulcent, and is an article
of diet well suited to the sick and convalescent, especially in bowel complaints. It
is prepared for use by adding to it a certain
proportion of boiling water, usually about
a pint to a tablespoonful of the fecula.

#### Water Arrowroot.

R. Rub the arrowroot with a little cold water, till well mixed; then pour boiling water over it, stirring constantly; afterwards boil for five minutes. Sweeten with white sugar, and flavor with lemon juice, or some aromatic; if wine be added, none of the astringent kinds should be used.

Thomson.

#### Milk Arrowroot.

R. Arrowroot, a tablespoonful. Sweet milk,

Boiling water, each, half a pint.

Proceed as with water arrowroot. Ellis.

R. Milk, Sugar, Arrowroot, Proceed as above. fifteen fl. ounces. two ounces. one ounce. Béral.

## Arrowroot Pudding.

R. Rub a tablespoonful of arrowroot with a little cold water, and add to it, stirring constantly, a pint of boiling milk; with this mix one egg and three teaspoonfuls of sugar, previously beaten together. This may be boiled or baked, and forms a good diet in convalescence.

Thomson.

#### Beef-Tea Arrowroot.

This is made in the same manner as the water arrowroot, except that beef-tea is used in the boiling state instead of water, and that the mixture is to be boiled twenty minutes instead of five,

Thomson.

## MARRUBIUM.

#### HOREHOUND.

Horehound, M. vulgare, is a small, herbaceous plant, a native of Europe, and naturalized in some parts of this country.

ralized in some parts of this country.

Sex. Syst. Didynam. gymnos. Nat. Syst.

Lamiaceæ.

Linn. Sp. Pl. 816. Griffith, Med. Bot. 512.
The whole herb is officinal. It has a strong and peculiar odor in the fresh state, which is almost lost on drying. Its taste is bitter, and somewhat acrid. It is tonic, emmenagogue, antispasmodic, and, in large doses, laxative. The dose of the powder is from thirty grains to a drachm.

#### Extract of Horehound.

R. Powdered horehound, sufficient. Exhaust with water by the process of displacement, and evaporate to proper consistence. The dose is from a scruple to half a drachm.

#### Compound Decoction of Horehound.

R. Dried horehound, one ounce. Bruised liquorice root,

Flaxseed, each, half an ounce. Boiling water, one pint and a half.

Macerate for four hours, and strain. Dose, from one to two fl. ounces, in catarrh.

Steph. & Church.

## Pectoral Mixture.

R. Extract of horehound,

"couch grass,
each, two drachms.
Decoction of dandelion, ten
fl. ounces.

Oxymel of squill, Syrup of fennel, each, two fl. ounces.

Mix. A tablespoonful occasionally.

Augustin.

## Syrup of Horehound.

R. Dried horehound, one ounce.
Horehound water, two pints.
Digest for two hours, express, and add
Sugar, four pounds.
Form a syrup. Cottereau.

## Horehound Candy.

R. Expressed juice of horehound, one pint. Sugar, ten pounds.

Boil to proper consistence, pour into moulds, or on a marble slab, and divide.

Much used to allay irritation of throat, in catarrh.

# MASTICHE.

#### MASTICH .- MASTIC.

Mastich is a concrete, resinous exudation from the *Pistacia lentiscus*; a small tree, a native of most of the countries bordering on the Mediterranean.

Sex. Syst. Diœc. pentand. Nat. Syst. Anacardiaceæ.

Linn. Sp. Pl. 1455. Griffith, Med. Bot.

Mastich occurs in yellowish, semi-transparent, brittle grains or tears, of a mild, agreeable smell, and a resinous but not unpleasant taste. It is much used by the Turks as a masticatory to sweeten the breath and to strengthen the gums. It is more employed in the arts as the basis of varnishes, than in medicine.

#### Mastich Dentifrice.

R. Powdered mastich,
Prepared chalk, each, two drachms.
Powdered orris root, half an ounce.
Oil of roses, three drops.
Mix.

Phæbus.

## Aromatic Mastich Collutory.

R. Mastich, two drachms.
Balsam of Peru, half a drachm.
Gum Arabic, two drachms.
Orange-flower water, six
fl. ounces.

Make an emulsion, and add

Tincture of myrrh, two fl. drachms.

Phæbus.

## Anti-Odontalgic Paste.

R. Mastich,
Sandarac, each,
Kino,
Opium,
Oil of rosemary,
Spirit of horseradish,
Sufficient.

Mix, and form a paste. Used to fill decayed teeth: Gassicourt.

## Dinner Pills.

R. Aloes, six drachms.

Mastich,
Red roses, each, two drachms.
Syrup of wormwood, sufficient.

Beat into mass, and divide into three-grain pills. Dose, two pills as a laxative. (Compare page 109.)

#### Ethereal Tincture of Mastich.

R. Mastich, four parts. Ether, one part.

Dissolve. To fill the cavity of carious teeth, for which purpose a small dossil of cotton is saturated with it, and introduced into the cavity.

Soubeiran.

#### Picture Varnish.

R. Mastich, three hundred and sixty parts.

Venice turpentine, forty-five parts.

Camphor, fifteen parts.

Oil of turpentine, one thousand parts.

Dissolve with heat.

#### Redwood.

# Crystal Varnish.

R. Mastich, three ounces.
Alcohol, one pint.

Dissolve. Used to fix pencil drawings.

Cooley.

## MATICO.

#### MATICO.

This is the leaves of a Peruvian plant, or plants; in most cases of the Artanthe elongata (Piper angustifolium).

Sex. Syst. Diand. trigyn. Nat. Syst. Piper-

aceæ.

The leaves, as found in commerce, are strongly veined, or reticulated; of a greenish-ash-color; mixed with fragments of the stem and flower spikes; of a somewhat aromatic odor, and a warm, spicy taste. They have attained much celebrity as a hemostatic, and have also been given in mucous and other discharges. As a styptic, they are applied in substance to the bleeding part.

#### Infusion of Matico.

R. Matico, cut small, half an ounce.
Boiling water, ten ounces.
Infuse for half an hour. Dose, one to four fl. ounces two or three times a day, or oftener. In hemorrhagic and other discharges.

Brit. Ph.

#### Infusion of Matico and Senna.

R. Matico,
Senna, each,
Boiling water,
Infuse, and strain.
a half, repeatedly.

Watmough.

#### Decoction of Matico.

R. Matico, one ounce. Water, twenty ounces. Boil for ten or fifteen minutes, and strain. Given as above. Jeffreys.

#### Tincture of Matico.

R. Matico, two and a half ounces.
Diluted alcohol, one pint.
Macerate for fourteen days, and strain.

Dr. Jeffreys directs three ounces of matico. Dose, from thirty to sixty drops, in water. In hemorrhagic discharges, etc.

R. Powdered matico leaves,

eight ounces.

Proof spirit, two pints (imper.).

Macerate for fourteen days, express, and filter.

Dose, one fl. drachm. Dub. Ph.

#### Fluid Extract of Matico.

R. Matico, in powder,
No. 50, sixteen troyounces.
Alcohol, twelve fl. ounces.

Glycerin, three fl. ounces. Water, one fl. ounces.

Mix the liquids, moisten the powder with half a pint of the mixture, pack in a percolator, add the remaining mixture, and macerate for four days. Then, with diluted alcohol, displace twenty-four fl. ounces, reserving the first fourteen, add to the remaining tincture one fl. ounce of glycerin, evaporate to two fl. ounces, and mix with reserved portion.

U. S. Ph.

#### Extract of Matico.

R. Matico, at will.

Treat by maceration and displacement with a mixture of three parts of alcohol (.835) and two parts of water. Evaporate the tincture on a water-bath, to consistence of an extract.

Dose, ten to twenty grains.

## Syrup of Matico.

R. Matico, four ounces.
Diluted alcohol, one pint.

Make tincture by displacement, evaporate to one-half; add

Sugar, sufficient, and form syrup. Ruschenberger. Used in same cases as the tincture. Dose, one to two fl. drachms.

## Ointment of Matico.

R. Powdered matico, three drachms.

"opium, three grains.
Lard, one ounce.

Mix. As an application to hemorrhoids.

Young.

## MATRICARIA.

## GERMAN CHAMOMILE.

This is the flowers of M. chamomilla, a small annual, herbaceous plant, native of many parts of Europe.

Sex. Syst. Syngen. superfl. Nat. Syst. Asteraceæ.

Linn. Sp. Pl. 1256. Stokes, Bot. Mat. Med. iv. 238.

The flowers, which are the officinal part, are smaller than those of the true chamomile. They have a strong, penetrating, unpleasant odor, which is much diminished by drying. Their taste is bitter and somewhat nauseous. The medical properties are much the same as those of chamomile, and it is given in the same manner.

#### Syrup of German Chamomile.

R. German chamomile, three parts. Boiling distilled water, fifteen parts.

391MEL.

Macerate for several hours, and in ten parts of the strained liquid dissolve

eighteen parts. Sugar. Ph. Germ. Dose, a tablespoonful.

## Infusion of German Chamomile.

R. Flowers of German

six drachms. chamomile, Boiling water, eight fl. ounces. Infuse for two hours, and strain. Dose, as a tonic, a tablespoonful every two hours. An extract and the oil are much used in Germany, for the same purposes as we employ common chamomile. Walther.

#### Oleo-infusion of Chamomile.

R. German chamomile, two parts. Alcohol, one part. Mix, macerate for several hours, and add

Olive oil, twenty parts. Digest until the alcohol has evaporated, express, and after several days, filter.

Ph. Germ.

Used in liniments.

#### Concentrated Water of German Chamomile.

R. German chamomile, ten parts. Distil by means of steam one hundred parts, add two parts of alcohol, and again distil ten parts. To obtain chamomile water, dilute one part of the above with nine parts of distilled water. Ph. Germ.

# MEL.

#### HONEY.

This is a peculiar fluid, prepared from

flowers by the Apis mellifica, or honey-bee. In a recent state it is fluid, but by age concretes into a soft, granular mass. It has a peculiar, somewhat aromatic odor, and a sweet taste, followed by faint acridity. It resembles sugar in its properties, but is more laxative. It is principally used in medicine as a vehicle..

#### Clarified Honey.

R. Honey. at will. Melt by means of a water-bath, and remove the scum. U. S. Ph.

R. Honey, one part. Water, two parts.

Heat for one hour to 212°, avoiding to boil, cool to about 120°, filter, and evaporate by a water-bath to a syrupy consistence; strain. Prepared Honey.

R. Clarified honey, half a pint. Diluted alcohol, one pint. Prepared chalk, half an ounce. Mix the honey and alcohol, add the chalk, and let the mixture stand for two hours, occasionally stirring. Heat to boiling, filter, and evaporate on water-bath, so that when cold the sp. gr. will be 1.32.

U. S. Ph. 1840.

## Oxymel.

R. Clarified honey, forty ounces. Acetic acid, five fl. ounces. Distilled water, five fl. ounces. Mix the acid and water with the honey previously heated. Brit. Ph.

R. Clarified honey, forty parts. Acetic acid, one part. Mix. Ph. Germ.

Hydromel.

R. Honey, two parts. Water, twenty parts. Dissolve, and strain. A refreshing and slightly laxative drink. Paris Codex.

## Pectoral Hydromel.

R. Washed Iceland moss, two ounces. Hyssop leaves, half an ounce. Hydromel, two pounds. Macerate for five days, strain, and add three ounces. In catarrh, etc., one or two spoonfuls occasionally.

## Expectorant Mixture.

R. Honey,

Fresh butter, each, two ounces. Mix, and melt over a gentle fire. A spoonful occasionally. St. Marie.

#### Ceromel.

R. Yellow wax, one ounce. Honey, four ounces. Melt the wax and add the honey, stirring well. As an application to indolent ulcers. Van Mons.

#### Honey Water.

R. Honey, two parts. Washed sand, three parts. Introduce into a retort, and distil on a Ph. Germ. sand-bath, and remove the oil that floats on the product. Aperient and diuretic; in doses of a scruple to half a drachm.

Spielmann.

R. Rectified spirit, eight pints. Rose water, two pints. Orange-flower water, two pints. Oil of cloves, half an ounce. lavender, half an ounce. bergamot, two ounces. 66 sandal wood, one drachm. Honey, one ounce. Tincture of saffron, one ounce. ten grains. Musk, Macerate for a week, and filter. Used as Gray. a perfume.

R. Honey, Coriander, each, eight ounces. Fresh lemon-peel, one ounce. six drachms. Cloves, Nutmeg,) Benzoin, each, half an ounce. Storax, Vanilla, three drachms. Rose water, Orange-flower water, each, five ounces. forty-eight ounces. Alcohol,

Distil by means of a water-bath. Sometimes amber or musk is added. This is chiefly used for the toilet. Guibourt.

## MELILOTUS.

#### MELILOT .- SWEET CLOVER.

This is the M. officinalis, an herbaceous plant, indigenous to Europe, and naturalized to some extent in this country.

Sex. Syst. Diadel. decand. Nat. Syst. Le-

guminosæ.

The leaves are ternate, with obovate leaflets and subulate stipules; the corolla is small and yellow. On drying, the odor of coumarin is developed. It is now mainly employed externally as an emollient and stimulating application to ulcers.

#### Plaster of Melilot.

R. Yellow wax, four parts.
Turpentine,
Olive oil, each, one part.

Melt together, and when nearly cold add
Powdered melilot, two parts.

Mix well.

Ph. Germ.

## MELISSA.

#### BALM.

Several species have been used in medicine, but the only one that is officinal in this country is *M. officinalis*, a small herbaceous plant, which is a native of the south of Europe, and is very generally cultivated in our gardens.

Sex. Syst. Didynam. gymnos. Nat. Syst.

Lamiaceæ.

Linn. Sp. Pl. 827. Stokes, Bot. Mat. Med.

iii. 365.

The whole herb is used; it has an agreeable odor, somewhat like that of lemons, and an aromatic, slightly bitter taste. Its medicinal properties are very slight, but it communicates an agreeable flavor to infusions.

# Infusion of Balm. (Balm Tea.)

R. Balm, two to four drachms.
Boiling water, six fl. ounces.
Infuse for two hours, and strain. Used to favor or restore the eruption in the exanthemata, in doses of a wineglassful.

Walther.

#### Balm Water.

R. Fresh balm, ten parts.
Water, sufficient.
Mix, and distil ten parts. Paris Codex.
Ph. Germ. directs to distil ten parts of water from one part of dried balm.

#### Concentrated Balm Water.

R. Balm, ten parts. Distil, by means of steam, one hundred parts, add two parts of alcohol, and again distil ten parts. By diluting one part of this with nine parts of distilled water, balm water is obtained. Ph. Germ.

#### Compound Spirit of Balm.

R. Fresh balm, ninety parts.
Fresh lemon-peel, fifteen parts.
Cinnamon,
Cloves,
Nutmeg,
Angelica,
Coriander, each, four parts.
Alcohol, five hundred parts.
Macerate for four days, and distil.

Paris Codex.

R. Balm leaves, fourteen parts.
Lemon-peel, twelve parts.
Coriander,
Nutmeg, each, six parts.

Cinnamon, three parts. Cloves, each, one hundred and Alcohol, fifty parts.

Water, two hundred and fifty parts.

Distil two hundred parts. Ph. Germ. These are known as the Eau des Carmes. It is used as a perfume, stomachic, and stimulant.

R. Compound spirit of balm, sixteen parts. Spirit of mint,

rosemary,

twelve parts. each, 66 nine parts. sage, eight parts. thyme, Mix. This is known as Eau de Dardel, Guibourt. and is used as above.

## Anti-Hysteric Water.

one pound. R. Fresh balm, Laurel berries, Cumin, each, one ounce. half an ounce. Myrrh, Castor, two drachms. White wine, twelve pounds.

Digest for some time, and distil off onehalf. As a stimulant, and antispasmodic in hysteria. Wirtemberg Ph.

# MENTHA PIPERITA.

#### PEPPERMINT.

Many species of Mentha are used in medicine, but two only are recognized in our pharmacopæia; the M. piperita and M. viridis; both natives of Europe, and naturalized in this country.

Sex. Syst. Didynam. gymnos. Nat. Syst.

Lamiaceæ.

Smith, Eng. Bot. x. 687. Griffith, Med.

Bot. 502.

The whole plant is used it has a peculiar, aromatic odor, and a balsamic, pungent, camphorated taste, followed by a sensation of coolness. It is aromatic, carminative, and stimulant, and is much employed to expel flatus, obviate nausea, etc.

## Oil of Peppermint.

R. Peppermint, at will. Water, sufficient.

Distil, and collect the oil that floats on the product. U. S. Ph.

## Aromatic Species.

R. Peppermint, Rosemary, Wild thyme, each, two parts. Marjoram, Lavender, Cloves,

Cubebs, each, one part. Cut and bruise separately, remove the fine powder, and mix. Ph. Germ.

The aromatics and the proportions vary

in the different pharmacopæias.

## Water of Peppermint.

R. Oil of peppermint, half a fl. drachm. Carbonate of magnesium, drachm.

Distilled water, two pints. Rub the oil with the carbonate of magnesium, and then with the water gradually added, and filter.

R. Oil of peppermint, one fl. drachm and a half. fifteen pounds. Distil ten pounds, Brit. Ph. Paris Codex directs to distil one part of water from one part of the fresh herb, Ph. Germ. ten parts, and U.S. Ph. fourteen parts of water from

one part of dried peppermint. Dose, a tablespoonful.

## Spirit of Peppermint.

R. Oil of peppermint, one fl. ounce. Rectified spirit, forty-nine fl. ounces.

Brit. Ph. Dissolve.

Dose, from half to one fl. drachm.

R. Oil of peppermint, one fl. ounce. two drachms. Peppermint, Alcohol, fifteen fl. ounces. Mix, macerate for twenty-four hours, and filter. U. S. Ph.

Dose, from ten to thirty minims.

#### Essence of Peppermint.

R. Oil of peppermint, one fl. ounce. Rectified spirit, four fl. ounces. Dissolve. Dose, five to fifteen minims.

Brit. Ph.

The officinal spirit is known in this country as essence of peppermint.

#### Peppermint Lozenges.

R. Oil of peppermint, one fl. drachm. Mucilage of tragacanth, sufficient. twelve troyounces. Sugar,

Mix, and form four hundred and eighty troches.

U. S. Ph.

#### Carminative Mixture.

R. Essence of peppermint, one fl. ounce.

Peppermint water, four fl. ounces.
Syrup of mallow, three fl. ounces.
Oil of cinnamon, two drops.
"peppermint, three drops.
Mix. A spoonful every two hours, in convulsive hiccough.

Alibert.

R. Magnesia, half a drachm. Peppermint

water, two and a half fl. drachms.

Compound spirit of

lavender, half fl. drachm.
Spirit of caraway, four fl. drachms.
Syrup of ginger, two fl. drachms.
Mix. A teaspoonful occasionally, as an antacid and carminative.

Paris.

# MENTHA VIRIDIS.

# SPEARMINT.

This species, like the last, although a native of Europe, has become extensively naturalized in many parts of the United States; principally in low, wet situations. It is less powerfully aromatic and pungent than peppermint, but is more agreeable in odor and taste to most persons. It has the same properties, and its preparations are the same as of that article.

The French and German pharmacopæias

employ M. crispa and M. crispata.

Syrup of Mint.

R. Mint, bruised, three parts.
Boiling distilled water, fifteen parts.

Macerate for several hours, and in ten parts of the strained liquid dissolve

Sugar, eighteen parts.

Dose, a tablespoonful. Ph. Germ.

#### Infusion of Mint.

R. Dried spearmint, three drachms.

Boiling water, half a pint.

Infuse for fifteen minutes, and strain.

Dub. Ph.

#### Compound Infusion of Mint.

R. Dried spearmint, two drachms.
Boiling water, sufficient
to afford six fl. ounces of strained infusion.
Add

Sugar, two drachms, Oil of spearmint, three drops, dissolved in

Compound tincture

of cardamom, half a fl. ounce.

To allay nausea, etc.
Ounces.

Dose, one to two fl.
Dub. Ph. 1826.

R. Dried mint, two ounces.
Red roses, four scruples.
Boiling water, one pint.
Diluted sulphuric acid, two
fl. drachms.

Macerate for half an hour, strain, and add Sugar, one ounce and a half, and dissolve. Guy's Hospital.

# Water of Spearmint.

R. Oil of spearmint, half a fl. drachm.

Carbonate of magnesium, one
drachm.

Water, two pints.

Rub the oil with the carbonate, then gradually with the water, and filter. Dose, a tablespoonful or more.

U. S. Ph.

R. Oil of spearmint, one fl. drachm and a half.

Water, fifteen pounds.

Distil ten pounds, Brit. Ph. Paris Codex directs to distil one part of water from one part of fresh, Ph. Germ. ten parts from one part of dry curled mint, U. S. Ph. fourteen parts from one part of dry spear-

#### Arquebusade Water.

R. Dried mint,

mint.

" angelica tops,

each, one pound.

Angelica fruit, oil of juniper, Spirit of rose
each, one pound. half a pound. five ounces. half a drachm.

mary, three pints and a half.
Rectified spirit, five gallons.
Water, four gallons.

Mix, and distil six gallons. Much celebrated as a vulnerary, for contusions, and for cleansing and healing ulcers and wounds, especially those caused by firearms.

Redwood.

# Essence (Spirit) of Spearmint.

R. Oil of spearmint, one fl. ounce.
Alcohol, fifteen fl. ounces.
Spearmint, two drachms.

Mix, macerate for twenty-four hours, and | Mixture of Buckbean, Fumitory, etc.

Dose, ten to thirty minims.

The strength of spirits made with volatile oils, of Brit. Ph., is one measure of the oil to forty-nine measures of alcohol.

# MENYANTHES.

# BUCKBEAN. BOGBEAN.

The M. trifoliata, or buckbean, is an aquatic herbaceous plant, with ternate leaves, a native of both Europe and North America. Sex. Syst. Pentand. monog. Nat. Syst. Gentianaceæ.

Linn. Sp. Pl. 207. Griffith, Med. Bot. 464. All parts of the plant are medicinal, but the leaves only are employed and are recognized by several European pharmacopæias under the name of *Trifolium fibrinum*. They are very bitter, but have very little odor. In small doses, the buckbean is tonic and astringent, in large ones cathartic, and even emetic. As a tonic, the dose of the powdered leaves, or root, is from twenty to thirty grains.

# Infusion of Buckbean.

R. Buckbean, one ounce. Boiling water, one pint. Macerate for two hours, and strain. Dose, one to two fl. ounces. Saunders.

#### Extract of Buckbean.

R. Clarified juice of at will. buckbean, Evaporate to the proper consistence.

Guibourt.

R. Buckbean, cut, one part. Digest first with six, afterwards with three parts of boiling water, each time for six hours; express, strain, and evaporate.

Ph. Germ.

Dose, ten to fifteen grains.

#### Compound Pills of Buckbean.

R. Extract of buckbean, valerian.

> two drachms. each, half an ounce. Soap, Rhubarb, one drachm and a half. sufficient.

Mix, and make pills of two grains. Ten, three times a day, in a costive condition of Vogel. the bowels.

R. Extract of buckbean, ) each.

half an fumitory, couch grass,) ounce. Chamomile water, ten fl. ounces.

Compound infusion of

horseradish, four fl. ounces. Sulphuric acid, half a drachm.

Mix. Two tablespoonfuls a day as an antiscorbutic.

#### Bitter Elixir.

R. Extract of buckbean, orange-peel,

two parts. each,

Peppermint water,

Alcohol, sp. gr. 0.92, sixteen parts. each,

Spirit of ether, one part. Dissolve and mix. Ph. Germ.

Dose, one-half to one teaspoonful.

#### Diuretic Mixture.

R. Extract of buckbean, half an ounce.

Vinegar of squill, two fl. ounces. Tincture of assafetida, half fl. ounce.

Mix. Dose, thirty drops three times a day, as a diuretic. Augustin.

# MEZEREUM.

#### MEZEREON.

This is the bark of several species of Daphne; two species of which are officinal in the U.S. Ph., the D. mezereum, and D. gnidium, both shrubs indigenous to Europe; the first being the most generally used.

Octand monog. Nat. Syst.

Thymelaceæ.

Linn. Sp. Pl. 509. Griffith, Med. Bot. 560. The officinal portion is the bark. This, as found in the shops, is in long, narrow strips, of a grayish color and fibrous texture. It is almost inodorous, with a sweetish taste at first, soon becoming extremely acrid. It is used as an external irritant and stimulant, and internally as an alterative diaphoretic.

#### Decoction of Mezereon.

R. Mezereon, two drachms. three pints. Water, Boil till reduced to a quart. Add

Liquorice root, half an ounce.

Strain. Four to eight fl. ounces a day. Thomson.

In syphilitic affections, especially when | Mix thoroughly. there are night-pains and eruptions.

# Compound Decoction of Mezereon.

R. Mezereon, two drachms. Bittersweet, half an ounce. Burdock, two ounces. Water, four pints.

Boil down to three pints, and add

Liquorice root, two drachms. Strain. In the same cases as above, and in obstinate diseases of the skin.

Van Mons.

#### Extract of Mezereon.

R. Mezereon, finely cut, one part. Alcohol, seven parts. Digest for two days, first with four, and then with three parts of alcohol, express, filter, distil, and evaporate to a soft extract. Ph. Germ.

#### Ethereal Extract of Mezereon.

Macerate the extract obtained by the preceding process from one pound of mezereon, with twenty fl. ounces of ether for twentyfour hours, shaking frequently; decant the solution, distil and evaporate to a soft extract. Brit. Ph.

#### Fluid Extract of Mezereon.

R. Mezereon, in powder,

No. 40, sixteen ounces. Stronger alcohol, sufficient.

Moisten powder with six fl. ounces of the alcohol, pack firmly in a percolator, add ten fl. ounces of the alcohol, and macerate for four days; then displace twenty-four fl. ounces, reserving the first fourteen; evaporate the remaining ten to two fl. ounces, and mix with reserved portion. U.S. Ph.

The last three preparations are excessively acrid, and are mainly employed in the preparation of ointments and liniments.

#### Mezereon Ointment.

R. Fluid extract of

mezereon, four fl. ounces. Lard, fourteen troyounces. Yellow wax, two troyounces. Melt lard and wax, add fluid extract, stir until alcohol has evaporated, and afterwards while cooling. U. S. Ph.

R. Extract of mezereen, one part. Wax ointment, nine parts.

Ph. Germ. Mezereon ointment of Paris Codex is almost identical with the foregoing.

Used as a stimulating application to blistered surface, and to indolent ulcers.

#### Plaster of Mezereon and Cantharides.

R. Bruised mezereon, ten grammes. cantharides,

thirty grammes. Acetic ether, one hundred grammes.

Macerate for eight days, express, filter, and dissolve in the filtrate

Sandarac. four grammes. Elemi,

Resin, each, two grammes. Spread this solution upon three hundred square centimetres of silk which has been previously coated with a solution of twenty grammes of isinglass. Ph. Germ.

# MONARDA.

### HORSEMINT.

Almost all the species of Monarda are possessed of medicinal properties, but one only is recognized as officinal, the M. punctata. This is a native, perennial, herbaceous plant, with yellow flowers, spotted with brown; usually growing in sandy soils.

Sex. Syst. Diand. monog. Nat. Syst. Lami-

Linn. Sp. Pl. 126. Griffith, Med. Bot. 510. The whole plant is aromatic, and abounds in a pungent, volatile oil. It is used in in-fusion, for flatulent colic, and as an emmenagogue.

#### Oil of Horsemint.

R. Fresh horsemint, at will. sufficient. Water,

Distil, and collect the oil that floats on the

Internally, as a carminative, in doses of two or three drops, with sugar and water. Externally, as a rubefacient, in low states of fever, rheumatism, etc. In most cases it must be diluted.

#### Oil of Horsemint Liniment.

R. Oil of horsemint, half an ounce. Tincture of camphor, two ounces. Laudanum, two drachms.

Mix. As a rubefacient application.

Atlee.

### MONESIA.

# MONESIA.

This is an extract obtained from the bark of Chrysophyllum glycyphluum, a tree growing in South America. It is in the form of hard, thick cakes, having at first a sweet taste, which soon becomes astringent and acrid. It is of a dark brown color, friable, and soluble in water. It has been used with success in various discharges, especially of a chronic character; in chronic bronchitis, etc., in doses of two to ten grains, frequently repeated; also as an application to atonic ulcers.

#### Purified Monesia.

R. Monesia, bruised, one pound.
Boiling water, six pints.
Infuse for twenty-four hours, stirring occa-

Infuse for twenty-four hours, stirring occasionally; decant, and evaporate by a waterbath.

Beasley.

#### Monesia Mixture.

R. Monesia, two scruples.
Water, seven and a half fl. ounces.
Compound tincture of
cardamom, half a fl. ounce.
Mix, and dissolve. Dose, a tablespoonful.
Neligan.

#### Syrup of Monesia.

R. Monesia, one drachm.
Water, one fl. drachm.
Boiling syrup, twelve fl. ounces.
Mix. Dose, half a fl. ounce. Derosne.

# Compound Syrup of Monesia.

R. Hot syrup of monesia,
sixteen fl. ounces.
Orange-flower water,
half a fl. ounce.
Extract of poppies, sixteen grains.
Mix. As above.

Derosne.

#### Tincture of Monesia.

B. Monesia, one ounce.
Diluted alcohol,
nine and a half fl. ounces.
Water, two fl. ounces.
Macerate, and decant.

Donovan.

R. Monesia, half an ounce.
Alcohol, two fl. ounces.
Water, seven and a half fl. ounces.

As above. Used in injections; half a drachm to a drachm, to six fl. ounces of water.

#### Monesia Ointment.

R. Monesia, one drachm.
Lard, one ounce.
Mix. St. Ange.

R. Monesia,
Water, each,
White wax,
Oil of almonds,
Two parts.
four parts.

Mix. Derosne.

As an application to indolent ulcers.

# MORA.

### MULBERRIES.

Two species of *Morus* produce fruit which appears to have identical properties; *M. nigra*, a native of Europe, which is officinal in some foreign pharmacopæias; and *M. rubra*, a native of the United States.

Sex. Syst. Monœc. tetrand. Nat. Syst. Mo-

raceæ.

Mulberries are refreshing and laxative, and form the basis of a grateful drink in febrile cases.

# Syrup of Mulberries.

R. Mulberry juice, twenty fl. ounces.
Sugar, thirty-two ounces.
Alcohol, two and a half fl. ounces.
Heat the juice to the boiling point, cool, and filter. Dissolve the sugar with a gentle heat, and add the spirit. It should weigh fifty-four ounces, and have the sp. gr. 1.33.

Brit. Ph.
As an addition to cooling drinks in fever.

#### Rob of Mulberries.

R. Strained juice of mulberries, at will.

Evaporate to the consistence of honey.

Austr. Ph.

Used as a detersive application to ulcers, and as an addition to gargles.

# MORPHIA.

#### MORPHIA.

R. Opium, sliced, twelve troyounces.

Distilled water,
Alcohol,
Animal charcoal,
Water of ammonia,

six fl. ounces.

Macerate the opium with four pints of the water, for twenty-four hours; and having worked it with the hand, digest for twenty-four hours, and strain. Operate on the resi-

due twice, in the same manner. Mix the infusions, evaporate to six pints, and filter; then add five pints of alcohol, and afterwards three fl. ounces of the water of ammonia mixed with half a pint of alcohol. Let rest for twenty-four hours, add the rest of the ammonia, mixed as before, and set aside for twenty-four hours, to crystallize. Purify the crystals by boiling them with two pints of alcohol, till dissolved, and filtering while hot through animal charcoal, and recrystallizing.

U. S. Ph.

R. Mix a concentrated infusion of opium with milk of lime (in which the lime is one-fourth the weight of the opium used); heat the mixture to boiling; filter, while boiling hot, through linen, and add an excess of chloride of ammonium. As it cools, the morphia is precipitated.

One-eighth of a grain is about equal in power to a grain of opium.

# Anodyne Solution of Morphia.

R. Morphia, one grain.
Wine vinegar, two grains.
Rectified spirit, twenty grains.
Chloroform, eighty grains.

Dissolve, and mix. Said to leave no unpleasant after-effects. Each drop contains  $\frac{1}{300}$  grain of morphia.

Brit. Med. Journ. 1867.

# Pills of Morphia.

R. Morphia, one grain. Conserve of roses, sufficient.

Mix, and make six pills. Magendie.

#### Morphia Draught.

R. Morphia, a quarter of a grain. Syrup of poppies, one drachm. Distilled water, one fl. ounce.

Mix. At bedtime. Brera.

# Injection of Morphia.

R. Morphia, two grains.
Yolk of egg, one.
Oil of chamomile,
" poppies, each, one ounce.

Mix. To ease pain in earache, and used in acute gonorrhœa and hemorrhoids. Brera.

# MORPHIÆ ACETAS.

# ACETATE OF MORPHIA.

R. Powdered morphia, one troyounce.
Distilled water, half a pint.
Acetic acid, sufficient.

Mix the morphia with the water, and drop in the acid, constantly stirring, till the morphia is saturated and dissolved. Evaporate to consistence of syrup on a water-bath. Dry by a gentle heat, and powder. U.S. Ph. Dose, one-eighth to a quarter of a grain.

# Solution of Morphia and Ipecacuanha.

R. Acetate of morphia, one scruple.
Diluted acetic acid, one fl. drachm.
Water, two fl. ounces.
Wine of ipecacuanha, four
fl. ounces.

Diluted alcohol, ten fl. ounces. Mix. Dose, a teaspoonful, containing about one-sixth of a grain of the acetate, and one grain of ipecacuanha.

# Compound Powder of Acetate of Morphia.

R. Acetate of morphia, one grain.
Powdered foxglove, six grains.
Extract of pulsatilla, twelve grains.
Sugar, one drachm.
Mix, and form thirty-six powders. Four a day, in the cough and sleeplessness of consumptive patients.

Cadet.

# Bolus of Acetate of Morphia.

R. Acetate of morphia, one grain. Olive oil, ten drops. Crumb of bread, Honey, each, sufficient.

Mix, and make six boluses.

Brera.

#### Troches of Acetate of Morphia.

They are to be made of white sugar, so that each contains five milligrammes (13 grain) of acetate of morphia. Ph. Germ.

#### Pills of Acetate of Morphia.

- R. Acetate of morphia, one grain.
  Conserve of roses, sixteen grains.
  Mix, and make eight pills.

  Mialhe.
- R. Acetate of morphia, one grain.
  Golden sulphuret of antimony,
  Extract of aconite, each, two
  grains.

Powdered liquorice,
Honey, each, sufficient.

Mix, and make eight pills. Brera.

R. Acetate of morphia, one grain.

Powdered digitalis, six grains.

"camphor, ten grains.

gum Arabic, eight grains.

Syrup of tolu, sufficient.

Beat into mass, and divide into six pills.

One may be taken every three hours.

A. T. Thomson.

R. Acetate of morphia,
fifteen grains.
Ammonio-sulphate
of copper, half a drachm.
Inspissated bile,

Powdered quassia, each, four scruples.

Mix, and make one hundred pills. Five, morning and evening, in diabetes mellitus.

Brendt.

# Solution of Acetate of Morphia.

R. Acetate of morphia,

Acetic acid, two fl. drachms.
Distilled water, six fl. drachms.
Mix. Dose, six to twenty-four drops.

Dunglison.

R. Acetate of morphia, four grains.

Dilute acetic acid, eight minims.

Distilled water, six fl. drachms.

Rectified spirit, two fl. drachms.

Mix. Dose, ten to sixty minims.

Brit. Ph.

# Alcoholic Solution of Acetate of Morphia.

R. Acetate of morphia,
sixteen grains.
Alcohol, one fl. ounce.
Dissolve.

Cottereau.

#### Syrup of Acetate of Morphia.

R. Acetate of morphia, four grains.

Dissolve in a small portion of water, and a few drops of acetic acid, and add to

Syrup, sixteen troyounces.

Paris Codex.

# Mixture with Acetate of Morphia.

R. Solution of acetate of
morphia, twenty drops.
Lactucarium, ten grains.
Infusion of chamomile,
five ounces.

Syrup of marsh mallow,

half on ounce.

Mix. Dose, a spoonful. Béral.

# Clyster with Acetate of Morphia.

R. Starch, one drachm.
Hot water, one pint.
Acetate of morphia, one grain.
Mix. In chronic diarrhea. Cadet.

# Ointment of Acetate of Morphia.

R. Acetate of morphia,

Lard, one to two drachms.

Mix. As a friction in violent rheumatic pains.

Foy.

R. Acetate of morphia, four grains.

Mercurial ointment,
Simple ointment,
each, two drachms.

Mix. In frictions on the labia, twice a day, in cancer of the uterus.

Hildenbrand.

# MORPHIÆ BIMECONAS.

BIMECONATE OF MORPHIA.

R. Meconic acid, two hundred grains. Boiling water, sufficient.

Dissolve, and add

Morphia, sufficient to saturate. (About 310 grains.) Evaporate to dryness. Squire. Dose, one-fourth of a grain.

# Solution of Bimeconate of Morphia.

R. Bimeconate of morphia, ten grains.
Rectified spirit, one fl. drachm.
Distilled water, thirteen
fl. drachms.

Mix. About the strength of laudanum.

Beasley.

# MORPHIÆ CITRAS.

CITRATE OF MORPHIA.

R. Morphia, sixteen grains.

Crystallized citric acid, eight grains.

Distilled water, one ounce colored with

Tincture of cochineal, two drachms.

Mix. Dose, six to thirty drops, in the twenty-four hours. Magendie.

# MORPHIÆ HYDRIODAS.

HYDRIODATE OF MORPHIA.

R. Muriate of morphia, two parts. Iodide of potassium, one part. Make a strong solution of each, and mix; wash the precipitate in a little cold water, press in bibulous paper, redissolve in hot water, and let crystallize. A. T. Thomson.

# MORPHIÆ MURIAS.

MURIATE OF MORPHIA.

R. Morphia, in powder, one troyounce.

Distilled water, four fl. ounces.

Muriatic acid, sufficient.

Mix the morphia with the water, drop in

Mix the morphia with the water, drop in the acid, constantly stirring, till the morphia is saturated and dissolved. Evaporate by means of a water-bath to crystallization. Dry upon bibulous paper.

U. S. Ph. Dose, one-eighth to half a grain.

R. Opium, sliced, twelve ounces.
Chloride of calcium, three
quarters of an ounce.
Purified animal charcoal, one
quarter ounce.
Dilute hydrochloric
acid, each,
Water of ammonia, sufficient.

acid,
Water of ammonia,
Distilled water,

Exhaust the opium by repeated maceration with water, evaporate to twenty fl.

Exhaust the opium by repeated maceration with water, evaporate to twenty fl. ounces, and strain; add the chloride of calcium dissolved in four fl. ounces of water, and evaporate until the mixture becomes solid on cooling. Express strongly and preserve the dark liquid. Triturate the cake with ten ounces of boiling water, filter, and wash residue well; evaporate the liquids, cool, and express the solid mass again, and, if much colored, repeat the same operation again. Now dissolve the cake in six fl. ounces of boiling distilled water, digest with the charcoal for twenty minutes, filter, wash, and mix with slight excess of ammonia. Collect the morphia, wash well, diffuse in two fl. ounces of boiling water, neutralize carefully with the muriatic acid, crystallize,

one ounce,

drain, and dry. A small portion of pure morphia may be obtained from the dark liquids expressed as above, by diluting them with water, precipitating with excess of potassa, filtering, supersaturating with muriatic acid, treating with animal charcoal, and precipitating with ammonia.

Brit. Ph.

# Solution of Muriate of Morphia.

R. Muriate of morphia, four grains.

Diluted hydrochloric
acid, eight minims.
Rectified spirit, two fl. drachms.
Distilled water, six fl. drachms.

Mix the acid, spirit, and water, and dissolve the muriate in the mixture.

Twenty minims contain one-sixth of a grain of the muriate, equal to about a grain of opium.

R. Muriate of morphia, sixteen grs. Distilled water, seven fl. drachms. Alcohol, one fl. drachm.

Mix. Dose, six to twenty drops. Cadet.

This is of about the same morphia strength as Magendie's solution of sulphate of morphia.

# Syrup of Muriate of Morphia.

R. Muriate of morphia, one grain.

Distilled water, two scruples.

Syrup, four troyounces.

Dissolve in water and mix. Dose, a teaspoonful. As an expectorant.

Paris Codex.

# Compound Syrup of Muriate of Morphia.

R. Muriate of morphia, two grains.

Syrup of pinks, ten ounces.

balm, four ounces.

orange flowers, two ounces.

Mix. Dose, half an ounce to an ounce.

Cadet.

# Mixture of Muriate of Morphia.

R. Muriate of morphia, one or two grains.

Spirit of chloroform, Compound tineture of cardamom, each, one fluidounce.

Mix. Dose, a dessertspoonful at bedtime, in insomnia. Tanner.

# Pills of Muriate of Morphia.

R. Muriate of morphia,

Milk sugar, each, fifteen grains.

Make, with honey, into one hundred pills, and roll them in powdered starch.

Paris Codex.

# Lozenges of Muriate of Morphia.

R. Muriate of morphia, one scruple.

Tincture of tolu, half a fl. ounce.

Powdered sugar, twenty-four ounces.

" gum Arabic, one ounce.

Dissolve the muriate in half an ounce of water, mix it and the tincture with the sugar and gum previously mixed, beat into a mass with mucilage, and divide into seven hundred and twenty lozenges. Each lozenge contains one-thirty-sixth of a grain of the muriate.

Brit. Ph.

# Lozenges of Muriate of Morphia and Ipecacuanha.

R. Made as the last, with the addition of one drachm of ipecacuanha.

Dose, one to six lozenges. Brit. Ph.

# Suppositories of Muriate of Morphia.

R. Muriate of morphia, six grains.

Benzoinated lard, sixty-four grs.

White wax, twenty grains.

Oil of theobroma, ninety grains.

Triturate the morphia and lard, add to the melted wax and oil, and make twelve suppositories.

Brit. Ph.

# MORPHIÆ NITRAS.

NITRATE OF MORPHIA.

R. Morphia, at will. Dilute nitric acid, sufficient.

Saturate, dissolve, evaporate, and let crystallize. Giordano.

# MORPHIÆ PHOSPHAS.

PHOSPHATE OF MORPHIA.

Make like the last, using dilute phosphoric acid instead of nitric.

# MORPHIÆ SULPHAS.

SULPHATE OF MORPHIA.

R. Morphia, in powder, one troyounce.

Distilled water, half a pint.
Diluted sulphuric acid, sufficient.

Mix the morphia with the water, drop in the acid, constantly stirring till the morphia is saturated and dissolved. Evaporate on water-bath and let crystallize. Dry crystals on bibulous paper.

U. S. Ph.

Dose, one-eighth to half a grain.

# Bolus of Sulphate of Morphia.

R. Sulphate of morphia, two grains.
Oil of almonds, sufficient.
Sulphate of iron, four grains.
Crumb of bread,
Honey, each, sufficient.

Mix, and make eight boluses.

R. Sulphate of morphia, one grain.
Ipecacuanha, three grains.
Oil of almonds, twelve drops.
Extract of aconite,
Liquorice powder,
Honey, each, sufficient.

Mix, and make six boluses. One, every three or four hours.

Brera.

### Pills of Sulphate of Morphia.

R. Sulphate of morphia, two grains.

Cyanide of potassium, four grains.

Mucilage, sufficient.

Mix, and make twenty-four pills. One, every six hours, in neuralgia.

Rougier.

R. Sulphate of morphia, one grain.
Olive oil, sufficient.
Ipecacuanha, three grains.
Nux vomica, two grains.
Crumb of bread,

Honey, each, sufficient.

Mix, and make six pills. One, every two hours.

Brera.

# Troches of Morphia and Ipecac.

R. Sulphate of morphia, twelve grs. Ipecacuanha, in powder,

Sugar, forty grains.
Sugar, ten troyounces.
Oil of gaultheria, five minims.
Mucilage of tragacanth, sufficient.

Rub the powders together, then add the oil and mucilage, and divide into four hundred and eighty troches.

U. S. Ph.

26

# Solution of Sulphate of Morphia.

R. Sulphate of morphia, eight grains.
Distilled water, half a pint.
Dissolve. U. S. Ph.
One fl. drachm contains an eighth of a grain.

#### Magendie's Solution.

B. Sulphate of morphia, sixteen grains.

Distilled water, one ounce.

Mix. Dose, six to twenty drops.

To prevent decomposition, Dr. Chr. Johnston adds three to five drops of sulphurous acid.

# Syrup of Sulphate of Morphia.

R. Sulphate of morphia, one grain. Dissolve in a little water, and add to

Syrup, four ounces.

Each ounce contains one-quarter of a grain of sulphate.

Paris Codex.

#### Lotion of Sulphate of Morphia and Borax.

R. Sulphate of morphia, six grains.

Borax, half an ounce.

Rose water, eight fl. ounces.

Mix. As an application in pruritus vaginæ, washing first with tepid soap and water.

Meigs.

# Suppositories of Morphia.

R. Sulphate of morphia, six grains.
 Oil of theobroma, three hundred and fifty-four grains.
 Make into twelve suppositories. U. S. Ph.

# MORPHIÆ TARTRAS.

TARTRATE OF MORPHIA.

R. Morphia, at will.
Saturate with
Solution of tartaric acid,
sufficient.

Evaporate and crystallize. A. T. Thomson.

# MOSCHUS.

#### Musk.

This is a peculiar concrete substance obtained from the Moschus moschiferus, a small animal of the deer kind, inhabiting the mountainous regions of central Asia. The

musk is secreted in the male, in an oval sac, situated near the generative organs. It is found in commerce in these sacs; it is concreted or granular; of a brownish color; soft and greasy to the touch; of a powerful, penetrating odor, and of a bitter, unpleasant, somewhat acrid taste. From its high price it is very liable to adulteration. It is antispasmodic and stimulant, and was formerly much used in spasmodic diseases of all kinds, as well as a stimulant in low states of the system. The dose is from five to ten grains.

# Powder of Musk.

R. Musk, three grains.
Opium, half a grain.
Gum Arabic, one scruple.
Sugar, two drachms.
Triturate together, and divide into six powders. One, every three hours, in hooping-cough.

Augustin.

R. Musk, sixteen grains.
Valerian, twenty-four grains.
Camphor, eight grains.
Mix. As an antispasmodic, in hysteria,

Mix. As an antispasmodic, in hysteria, etc.; in doses of three to twelve grains.

Guibourt.

This is called by Jourdain Tonquin powder, but this name belongs rather to the following:—

R. Musk, sixteen grains.
Cinnabar, twelve grains.
Mix. For a single dose. Spielmann.
Once celebrated as a remedy in hydrophobia.

#### Musk Bolus.

R. Musk, five to ten grains.
Camphor, five grains.
Syrup, sufficient.
Make a bolus. Antispasmodic. Ellis.

R. Musk,

Carbonate of ammonium,
each, ten grains.
Conserve of roses, sufficient.
Make a bolus. One, every three hours.
In mortification, attended with spasmodic action.

Ellis.

#### Musk Pills.

R. Musk, eight grains.
Opium, two grains.
Camphor, twenty-four grains.
Syrup, sufficient.
Mix, and form six pills. To be taken during the day, in hospital gangrene.

Dupuytren.

ten grains. R. Musk, one scruple. Camphor. two scruples. Ammoniac, four grains. Opium, Mix, and make pills of four grains. Four or five in the twenty-four hours, in nervous Richard. disorders.

twelve grains. R. Musk. twenty-four grains. Castor, thirty grains. Assafetida. Tincture of valerian, sufficient. Make twenty-four pills. Four, three times a day, in nervous complaints. Radius.

#### Musk Mixture.

R. Musk, two drachms. Sugar, Gum Arabic, each, one drachm. Distilled water, six fl. ounces. Mix. A tablespoonful, every hour or two, in low fevers. Ellis.

R. Musk mixture, six fl. ounces. half fl. ounce. Paregoric elixir, Ammon. tincture of valerian. one fl. drachm. Mix. A teaspoonful, three or four times a day, in pertussis in children. Ellis.

R. Musk, two grains. Fennel water, six fl. ounces. ten drops. Laudanum, Syrup of poppies, two drachms. Mix. A spoonful, every hour, in trismus. Chesselden.

R. Musk mixture, Camphor water, each, three fl. ounces and a half. Syrup of ginger, Spirit of sulphuric ether, each, two fl. drachms. Mix. A tablespoonful, every three or four hours, in low fevers. Ainslie.

#### Musk Clyster.

R. Musk, ten grains. Valerian, half an ounce. Starch, half a drachm. Boiling water, eight ounces. Mix. As an antispasmodic and excitant. Radius.

R. Musk, twelve grains. Sugar, two scruples. Spirit of ammonia, thirty drops. utes.

Infusion of flaxseed, four fl. ounces.

Mix. For children with convulsions.

#### Tincture of Musk.

R. Musk, one part. Alcohol, of 80 per ct., ten parts. Digest for ten days, and filter. Dose, thirty to sixty drops. Paris Codex.

R. Musk, one part. Water, Alcohol, sp. gr. .892, twenty-five parts.

Triturate musk with the water, add the alcohol, macerate for a week, and filter.

Ph. Germ.

# MUCUNA.

# COWHAGE.

This is the bristles of the pods of Mucuna pruriens, a perennial, twining plant, native of the warmer parts of America, bearing curved brown pods, covered with short bristles, which, when dry, readily separate. Sex. Syst. Diadelph. decand. Nat. Syst.

Fabaceæ.

De Candolle, Prod. ii. 405. Griffith, Med.

Bot. 242.

The pod is shaped somewhat like the italic S, and is covered with brown, bristly hairs, which adhere to any substance coming in contact with them. The hairs or spicula are possessed of anthelmintic powers, but whether they act mechanically or not, has not been fully ascertained, though the probability is that they do.

# Electuary of Cowhage.

R. Cowhage, two scruples. Syrup, half an ounce. Mix. A teaspoonful every morning, fasting, for three days, to be followed by a dose of castor oil; in cases of lumbrici. Correa.

R. Cowhage, one drachm. Honey, sufficient to make electuary. To be given as above.

#### Ointment of Cowhage.

R. Cowhage, seven and a half grains. Lard, one ounce.

Mix thoroughly.

This is used as a counter-irritant by rubbing it on the skin for ten or twenty min-Blatin.

# MYRCIA.

#### BAY MYRTLE.

A genus of shrubs and trees, with opposite entire leaves, which are pellucid-punc-tate, and, like the fruit, usually highly aromatic. The only officinal species is M. acris, a handsome tree of the West Indies.

Nat. Syst. Myrtaceæ. The highly fragrant leaves yield on distillation with water, a volatile oil, known in this country as oil of bay, which resembles oil of allspice in odor, taste, and probably also in medicinal properties.

#### Spirit of Myrcia. (Bay Rum.)

R. Bay myrtle leaves, two pounds. Allspice, half a pound. Cinnamon, two ounces. Cloves, one ounce and a half. Rum, eighteen pints. Distil twelve pints. Said to be the genuine bay rum of some West Indian islands.

R. Oil of bay, ten fl. drachms. Oil of allspice, one fl. drachm. Acetic ether, two fl. ounces. three gallons. Alcohol, two gallons and a half. Water, Mix, and filter after a fortnight. A good Wilder. imitation.

Used as a stimulating application to the

skin and hair.

#### MYRISTICA.

#### NUTMEG.

The nutmeg is the kernel of the fruit of Myristica fragrans (or M. moschata), a medium-sized tree, a native of the Molucca Islands, and now cultivated in various tropical regions.

Sex. Syst. Dicec. monadelph. Nat. Syst.

Myristicaceæ.

Thunberg, Act. Holm. 1782. Griffith, Med.

The nutmeg is an oval, oblong nut-like seed, of a lightish-brown color externally, and of a reddish-gray with red veins, internally; of an agreeable, fragrant odor, warm, aromatic taste, and unctuous feel. It is principally used for culinary purposes, but is also employed in medicine as a stimulant, and to disguise the taste of nauseous remedies.

# Volatile Oil of Nutmeg.

at will. R. Grated nutmeg, sufficient. Water, Distil, and separate the oil. This is the oleum myristicæ of Brit. Ph. and U. S. Ph. Dose, one or two drops.

# Expressed Oil of Nutmeg.

This is prepared by beating nutmegs to a paste, which is to be inclosed in a bag and then exposed to the vapor of water, and afterwards expressing the oil with heated

It is the oleum myristica of Ph. Germ.

and is ordinarily called oil of mace.

It is a fat oil mixed with a volatile oil. of a firm consistence and fragrant odor.

#### Nervine Balsam.

R. Expressed oil nutmeg, four ounces. Beef marrow, four ounces.

Melt together, and add

Oil of rosemary, two drachms. cloves, one drachm. Camphor, one drachm. Balsam of tolu. two drachms. Dissolved in

Rectified spirit, four drachms.

As a liniment in rheumatism, etc.

Redwood.

Ph. Germ.

#### Cerate of Nutmeg.

R. Yellow wax, one part. Olive oil, two parts. Expressed oil of nutmeg, six parts. Melt and mix. This is the Balsamum nucistæ, much used in Europe in stimulating ointments and liniments. Ph. Germ.

#### Aromatic Plaster.

R. Yellow wax, thirty-two parts. twenty-four parts. Suet. Turpentine, eight parts. Melt together; when nearly cold, add Expressed oil of nutmeg, six parts. Powdered olibanum, sixteen parts. benzoin, eight parts. Oil of peppermint, cloves, each, one part.

#### Aromatic Powder.

Mix intimately.

R. Cinnamon, Ginger, each, two troyounces. Cardamom seed, one troyounce. Nutmeg, each, All in powder, No. 60; mix thoroughly. U. S. Ph.

Stimulant and carminative. Dose, ten to thirty grains.

### Goelis's Antihectic Powder.

R. Burnt hartshorn,
Powdered nutmeg,
Roasted laurel berries,
Liquorice,
Mix, and make a powder. Advised in the hectic attendant on scrofulous affections, in doses of ten grains.

Augustin.

# Stimulating Clyster.

R. Powdered nutmeg, one drachm.

" columbo, one drachm.

" salep, one scruple.

Infusion of flaxseed, four fl. ounces.

Mix. As a stimulating enema. Ammon.

# Essence of Nutmeg.

R. Volatile oil of nutmeg, one fl. ounce.

Alcohol, nine fl. ounces.

Mix, with agitation. Dose, twenty drops.

Dub. Ph.

# Spirit of Nutmeg.

R. Volatile oil of nutmeg, one fl. ounce.

Stronger alcohol, three pints.

Dissolve. U. S. Ph.

Dose, half to one fl. drachm; principally used to flavor other medicines.

#### Compound Spirit of Nutmeg.

R. Nutmeg, two ounces.

Lemon-peel,
Orange-peel,
Spearmint,
Balm,
Diluted alcohol, four pints.
Water, twelve pints.

Distil three pints.
As a stomachic, and an external application to contusions.

# MYRRHA.

#### MYRRH.

Myrrh is the gum resin of Balsamodendron Ehrenbergianum, and probably also of B. myrrha, small shrubby trees, with spiny branches, natives of Arabia, etc.

Sex. Syst. Octand. monog. Nat. Syst. Amyridaceæ.

Nees, Offic. Pflanz. liv. 17. Griffith, Med. Bot. 171.

Myrrh occurs in tears, or in agglutinated

masses, of various shades of color; the best is of a reddish-yellow color, somewhat translucent, having a peculiar, aromatic odor, and a warm, bitter taste. It is a stimulating tonic. It is given in a variety of diseases, and is used externally as an application to foul ulcers, aphthæ, etc. The dose is from ten to thirty grains, usually in combination.

# Powder of Myrrh and Ipecacuanha.

R. Powdered myrrh, twelve grains.

"ipecacuanha, six grains.
"initre, half a drachm.

Mix, and divide into four powders. One every fourth hour. Stimulating expectorant.

Paris.

#### Emmenagogue Powder.

R. Myrrh, twelve grains.
Saffron, three grains.
Oil of cloves, one drop.
Rub into powder.

Augustin.

# Pills of Myrrh and Zinc.

R. Sulphate of zinc,
Powdered myrrh,
Conserve of roses,
Mix, and form twenty pills.
day. In pertussis.

ten grains.
one drachm
and a half.
sufficient.
Two, twice a
Paris.

# Pills of Myrrh and Sulphate of Iron.

R. Myrrh,
Sulphate of iron, each, two
scruples.

Carbonate of potassium,
Soap, each, half a drachm.
Rub into mass, and form forty pills. Two
thrice a day. In amenorrhœa. Ellis.

#### Pills of Myrrh and Squill.

R. Myrrh, one drachm and a half.
Dried squill, half a drachm.
Extract of henbane, two scruples.
Distilled water, sufficient.
Rub into mass, and form thirty pills. Two night and morning. In catarrh and phthisis.

Paris.

# Pills of Myrrh and Canada Balsam.

R. Myrrh,
Canada balsam,
Opium,
Mix, and make pills of two grains. Two to four, every hour, in ulcerated phthisis.

Augustin.

Alkaline Solution of Myrrh.

two ounces. R. Myrrh, Carbonate of sodium, one drachm. eight fl. ounces. Boiling water,

Macerate for two days, and filter. Swediaur.

Extract of Myrrh.

R. Myrrh, bruised, one part. Distilled water, two parts. Macerate for two days, filter, evaporate to

dryness, and powder. Dose, five to fifteen Ph. Germ. grains.

Compound Extract of Myrrh.

R. Myrrh, two ounces. Gum Arabic, two drachms. Triturate together; add sufficient water to

make a thick emulsion, and mix well with

Extract of couchgrass,

four ounces.

Advised in phthisis, and ulcers of the uterus. Dose, one to three drachms, mixed with water, two or three times a day.

Swediaur.

# Myrrh Collutory.

R. Lime water,

one fl. ounce and a half. Tincture of myrrh,

two fl. drachms. Honey of roses, two drachms. Mix. Ph. Chirurg.

R. Tincture of myrrh,

two fl. drachms. Infusion of sage, six fl. ounces. Honey of roses, two ounces. Mix. Augustin.

Myrrh Gargle.

R. Tincture of myrrh, Vinegar, each, two fl. ounces. Honey, one ounce. Infusion of contrayerva,

one pint and a half.

Mix. In putrid sore throat, scarlatina, etc. Fothergill.

R. Honey of roses,

one ounce and a half. Barley water, twelve fl. ounces. Tincture of myrrh,

six fl. drachms.

one fl. ounce. Vinegar, Mix. As a gargle in putrid sore throat. Stimulating Injection.

R. Myrrh, one ounce. Quicklime, two ounces. Water, two pints.

Infuse for a few days, and decant. As an St. Marie. injection in fistulous ulcers.

# Tincture of Myrrh.

R. Myrrh, in powder,

No. 40, three troyounces. Alcohol, sufficient.

Obtain by slow displacement two pints.

The tincture of Brit. Ph. is of nearly the same strength. Paris Codex and Ph. Germ. prepare it from one part of myrrh, and five parts of alcohol.

# Tincture of Myrrh and Hellebore.

R. Tincture of myrrh, one fl. ounce. black hellebore,

half a fl. ounce.

Tincture of Spanish

two fl. drachms.

Mix. As an emmenagogue, in doses of thirty drops, three times a day, in a little sugar and water.

# Griffith's Myrrh Mixture.

R. Myrrh,

Sugar, each, one drachm. Carbonate of potassium,

twenty-five grains.

Rub together, and add, gradually,

Rose water,

seven and a half fl. ounces.

Spirit of lavender, half a fl. ounce.

Then add

Crystallized sulphate of iron, rubbed to powder, one scruple.

Mix. As a tonic in phthisis, in tablespoonful doses, according to circumstances.

Ellis.

See also page 282.

### Compound Mixture of Myrrh.

R. Powdered myrrh, one drachm. Carbonate of potassium,

half a drachm.

Sulphate of iron, twelve grains. Mucilage gum Arabic,

two fl. drachms.

Decoction of liquorice,

six and a half fl. ounces.

one fl. ounce Spirit of allspice, Ainslie.

Rub the myrrh, potassa, sulphate of iron, and mucilage, well together; add gradually the other ingredients. Dose, a tablespoonful twice or thrice a day.

Babington.

Nearly the same as Griffith's mixture,

and used in the same cases.

# Oil of Myrrh.

R. Myrrh, two parts. Washed sand, three parts. Distil, separate the oil that passes, and rectify it. Wirt. Ph.

# Myrrh Plaster.

R. Balsam of Peru, Camphor, Powdered myrrh, each, one ounce and a half

Lead plaster, thirty-two ounces. Triturate the first three ingredients together, and when intimately mixed, add the melted plaster, and stir until chilled; then form into rolls of half a pound each.

#### Dentifrice of Tincture of Myrrh and Borax.

h, one ounce and a half.

R. Myrrh,
Borax, each,
Rhatany,
Water,
Syrup, each,
Cologne water, forty-eight parts.
Spirit of roses, one-quarter part.
Digest for ten days, and filter. Dorvault.

# N.

# NAPHTHALINA.

# NAPHTHALIN

Is a product of the distillation of coal tar, and is deposited from the rectified oil of coal tar, in white, shining, concrete crystals, and may be purified by dissolving in alcohol and recrystallizing. It is an active expectorant in doses of eight to thirty grains.

# Syrup of Naphthalin.

R. Naphthalin, fifteen grains. Dissolve in smallest quantity of hot alcohol, and triturate with

Syrup, two troyounces.

Dose, a tablespoonful every two hours.

Dupasquier.

# Ointment of Naphthalin.

R. Naphthalin, half to one drachm.

Lard, five drachms.

Mix. As an application in dry tetter, lepra, psoriasis, etc.

Boissière.

#### Lozenges of Naphthalin.

R. Naphthalin, five scruples.
Sugar, twenty ounces.
Oil of anise,
Mucilage of tragacanth,
each, sufficient.
Mix, and form lozenges of fifteen grains.
Expectorant. One occasionally, to the

amount of twenty a day.

# NARCOTINA.

#### NARCOTIA

Is a crystallizable, white, tasteless, inodorous principle, existing in opium. It forms bitter salts with the stronger acids. It has been used with success as an antiperiodic, in doses of three grains, three times a day.

It may be obtained by treating opium, or the extract of opium, with ether, or by the

following process:-

# R. Residue of opium, exhausted

by water, at will.

Dry it, powder it coarsely, add cold acetic acid, express, and filter; add an excess of ammonia, wash the precipitate with cold water, dissolve in boiling alcohol, decolorize by means of animal charcoal, let cool, and crystallize.

Pereira.

#### Bolus of Narcotina.

R. Narcotina, one scruple.
Oil of almonds, six drops.
Crumb of bread,
Honey, each, sufficient.
Mix, and make eight boluses. One, three times a day, in the apyrexia of intermittents.

Brera.

#### Mixture of Narcotina.

sufficient.
fifteen grains.
onally, to the
Dupasquier.

R. Narcotina,
Lemon syrup,
Lemon water,
two fl. ounces.

Mix. Dose, a dessertspoonful.

Brera.

# NARCOTINÆ MURIAS.

MURIATE OF NARCOTINA.

R. Opium, two pounds.
Alcohol, twenty pounds.

Rub together, gradually adding the spirit, till the opium is exhausted, decant, and press residue; to solution add ammonia, till turbid. Distil off three-fourths of alcohol, and let the product cool; wash the deposit with water, and then with a drachm of muriatic acid mixed with a quart of water. Filter the solution, and evaporate to dryness. Dose, about the same as of narcotina.

O'Shaughnessy.

[See Dunglison's New Remedies, 6th edit. p. 536.]

# NUX VOMICA.

# Nux Vomica

Is the seed of the Strychnos nux vomica, a moderate-sized tree, a native of many parts of the East Indies, having a very bitter

Sex. Syst. Pentand. monog. Nat. Syst. Loganiaceæ.

Linn. Sp. Pl. 271. Griffith, Med. Bot. 469. The seeds are flat, peltate, with narrow annular striæ, somewhat downy on the surface; they are of a horny consistence, inodorous, and of a bitter, acrid, somewhat nauseous taste. Nux vomica is a violent excitant of the cerebro-spinal system, and in large doses an active poison. In small doses, frequently repeated, it is tonic, diuretic, and even laxative. It owes its energetic properties to the presence of strychnia and brucia. It is principally used in paralysis, in doses of about five grains, three or four times a day.

#### Powder of Nux Vomica.

R. Powdered nux vomica,

three grains.

Gum Arabic,
Sugar, each, twelve grains.
Mix. Advised in chronic dysentery. One,
every day. Soubeiran.

R. Powdered nux vomica,

eighteen grains.

twenty-four grains.

"rhubarb, one drachm.
Prepared chalk, two scruples.
Oil of peppermint, two drops.

Mix. To be divided into twelve powders.
One every three or four hours, in cardialgia, etc.

Vogt.

#### Extract of Nux Vomica.

R. Nux vomica, in powder,
No. 60, twelve troyounces. Mix. Dose, twe
day, in paralysis.

Exhaust by percolation with alcohol, distil, and evaporate to the proper consistence.

U. S. Ph.

R. Nux vomica, one pound.
Alcohol, sufficient.

Expose the nux vomica to steam, till softened, slice, dry, and reduce it to powder. Exhaust this by boiling with alcohol. Distil off the alcohol, and evaporate to a proper consistence.

Brit. Ph.

Dose, half a grain to a grain.

# Aqueous Extract of Nux Vomica.

R. Nux vomica, in coarse

powder, one part.

Digest first with four parts, next with three parts of water, pouring it upon the powder boiling hot; express, strain, and evaporate to dryness. Dose, one to three grains.

Ph. Germ.

#### Tincture of Nux Vomica.

R. Nux vomica, in powder,

No. 60, eight troyounces.
Alcohol, sufficient.

Digest the powder with a pint of alcohol for twenty-four hours, then carefully displace two pints.

U. S. Ph.

Dose, five to fifteen drops.

Paris Codex macerates with alcohol of .864, Ph. Germ. with alcohol of .892 sp. gr., both in proportion of five parts to one part of nux vomica. The tincture of Brit. Ph. is still weaker, two ounces of nux vomica being used to twenty fl. ounces of alcohol.

#### Ethereal Tincture of Nux Vomica.

R. Powdered nux vomica,

Spirit of nitrous ether, two pints.

Digest ten days, and filter. Dose, half a fl. drachm, in seminal debility.

Mettauer.

R. Nux vomica, in coarse powder, one part. Spirit of ether, ten parts. Macerate for a week, express, and filter.

Ph. Germ.

### Compound Tincture of Nux Vomica.

R. Extract of nux vomica,

twenty-four grains.
Camphor, one drachm.
Tincture of pellitory, one fl. ounce.
Mix. Dose, twenty drops, four times a day, in paralysis.

Radius.

R. Tincture of nux vomica,

"Spanish flies,
each, one fl. drachm.
Phosphoric ether, one fl. scruple.
Mix. Thirty drops three or four times a day, in paralysis.

Radius.

# Pills of Nux Vomica.

R. Powdered nux vomica,

thirty grains.

Conserve of roses, sufficient.

Mix, and make ten pills; one, twice or thrice a day, in paralysis, closely watching the effects.

Ellis.

#### Pills of Extract of Nux Vomica.

R. Extract of nux vomica,

one scruple.

seven scruples.

Mix, and make eighty pills. Two to four, two or three times a day, in paralysis.

Radius.

# Compound Pills of Nux Vomica.

R. Extract of nux vomica, six grs.

Black oxide of iron, one drachm.

Mix, and make twenty-four pills. Three a
day, in atonic incontinence of urine.

Mondiere.

R. Extract of nux vomica,

three grains.

Nitrate of silver, four grains.
Extract of hops, twenty-four grs.

Make twelve pills. Dose, one thrice daily, in pyrosis, etc.

Barlow.

#### Pills of Nux Vomica and Aloes.

R. Extract of nux vomica, ten grains. Pills of aloes and myrrh,

four scruples.

Mix well, and form thirty-six pills. One or two, night and morning. Copland.

# Pills of Nux Vomica and Colocynth.

R. Compound extract of colocynth, two scruples. Extract of nux vomica,

three grains.

Powdered soap, twelve grains.

Mix, and make twelve pills. Dose, one or
two at bedtime, in habitual constipation.

Copland.

#### Mixture of Nux Vomica.

R. Extract of nux vomica, ten grains.

Elder water, six fl. ounces.

Mucilage of gum Arabic,

Syrup of mallow,

each, one fl. ounce.

Mix. A spoonful every two hours, in chronic dysentery.

Ammon.

#### Lotion of Nux Vomica.

R. Extract of nux vomica,

eight grains.

Alcohol, two fl. ounces.

Stronger water of

ammonia, half fl. ounce.

Mix. As a stimulating lotion to paralyzed limbs. Radius.

0.

# OLEUM ANIMALE EMPY-REUMATICUM.

DIPPEL'S ANIMAL OIL.

R. Oil of hartshorn, at will.

Distil off one-fourth, by a slow heat, on a sand-bath, keeping it protected from the light.

Van Mons.

Antispasmodic, diaphoretic, and anodyne, in doses of five or ten drops; poisonous in large doses.

# Liniment of Dippel's Oil.

R. Dippel's oil, one drachm.
Oil of almonds, six drachms.
Turpentine soap, half an ounce.
Mix. As an exciting liniment, also as an application to the abdomen, in cases of worms.

Sundelin.

# Tincture of Dippel's Oil.

R. Dippel's oil, one part. Ether, fifteen parts. Dissolve. Fifteen to thirty drops, as a | Mix. As an embrocation in chronic rheustimulant and antispasmodic. Béral.

Mixture of Dippel's Oil.

R. Dippel's oil, one drachm. Hoffmann's anodyne, three drachms.

Dissolve. Twenty to thirty drops, four times a day, in chorea and tetanus.

Radius.

#### OLEUM CAJUPUTI.

OIL OF CAJEPUT.

This is a fluid, transparent, green volatile oil, of an aromatic and pleasant odor, and a warm, pungent taste; obtained from the Melaleuca cajuputi, a small tree, a native of the Molucca islands.

Sex. Syst. Polyadelph. icosand. Nat. Syst.

Myrtaceæ.

Maton, Lond. Pharm. 1800. Griffith, Med. Bot. 296.

It is also furnished by other species. It is an active stimulant, when given inter-nally, in doses of a few drops, and acts as a rubefacient when applied to the skin.

Rectified Oil of Cajeput.

R. Oil of cajeput, one part. Water, six parts.

Distil as long as the oil comes over colorless, and separate from the water.

Ph. Germ.

Mixture of Oil of Cajeput.

R. Oil of cajeput, half a drachm. Dippel's animal oil, one drachm. Mix. As a stimulant. Dose, five to fifteen drops. Augustin.

Spirit of Cajeput.

R. Oil of cajeput, one fl. ounce. forty-nine fl. ounces. Alcohol, Dissolve. Dose, half to one fl. drachm.

Brit. Ph.

#### Cajeput Liniment.

R. Cajeput oil, Camphor, each, three drachms. Soft soap, two ounces. Alcohol, one pint. .Water of ammonia, two fl. ounces. Mix. As an embrocation. Chapman.

R. Oil of cajeput, equal " turpentine, measures. Aconite liniment,

matism. Fuller.

# OLEUM MORRHUE.

COD-LIVER OIL.

This, which is also called *Oleum jecoris* aselli, is procured from the livers of several kinds of fish, but principally from the Cod (Gadus morrhua), though that from the Ray is said to be preferable. There are several varieties; one, clear and limpid, the other dark-colored, and somewhat acrid, which is said by many writers to be the most powerful. The pale oil has a faint fishy smell, and a bland taste. It has obtained much celebrity as an alterative, in strumous affec-tions; in chronic gout, rheumatism, and cutaneous diseases, etc. The dose for an adult, is from half a tablespoonful to three tablespoonfuls, two or three times a day.

#### Mixture of Cod-liver Oil.

R. Cod-liver oil, one fl. ounce. Gum Arabic, Sugar, each, two drachms. Cinnamon, or mint four fl. ounces. water,

Mix. One or two tablespoonfuls, morning and evening.

R. Cod-liver oil, four fl. ounces. Solution of carbonate of potassium, half a fl. ounce.

Syrup of orange-peel, half a fl. ounce.

Peppermint water, seven fl. ounces. Mix. Dose, one and a half fl. ounces to three fl. ounces. Beasley.

R. Cod-liver oil, one fl. ounce. Solution of carbonate of potassium, two fl. drachms.

Syrup of orange-peel, fl. ounce.

Oil of calamus, three drops. Mix. Dose, one to two fl. drachms, night and morning, for rickets in children.

Fehr.

R. Cod-liver oil, each, one Syrup of orange-peel, fl. ounce. Anise water, Oil of calamus, three drops.

Mix. Three spoonfuls a day, in rachitis and gouty swellings. Phæbus.

half a fl. ounce. R. Cod-liver oil, Solution of potassa, forty drops. Peppermint water, half a fl. ounce. Mix for a draught. This should be followed by a teaspoonful of lemon-juice to liberate the oil on the stomach. Percival.

#### Cod-liver Oil and Lacto-phosphate of Calcium.

R. Cod-liver oil, eight fl. ounces. Gum Arabic, two troyounces and two drachms. two fl. ounces. Water, Syrup of lacto-phosphate of calcium, six fl. ounces. Oil of bitter almonds, six drops.

Rub the gum, water, and syrup together, add the oil gradually, and lastly the oil of E. Chiles. bitter almonds.

R. Cod-liver oil, one pint. Oil of bitter almonds, ) each, ten peppermint, drops. wintergreen, Powdered gum

four troyounces. Arabic, Powdered sugar, six troyounces. Solution of lacto-phosphate of calcium (containing one drachm in the fl. ounce),

six fl. ounces Lime water, each, and a half.

Mix gum, sugar, lime water, and three fl. ounces of the solution to a smooth mucilage, add the mixed oils gradually, make emulsion, and triturate with remainder of solution. Shinn.

#### Cod-liver Oil and Ether.

R. Cod-liver oil, three fl. ounces. two to four fl. drachms. Ether, Mix. A dessertspoonful twice or three times a day. The ether masks the unpleasant taste of the oil, and places it in a state of fine division. Foster.

#### Syrup of Cod-liver Oil.

R. Cod-liver oil, eight parts. Powdered gum Arabic, five parts. Simple syrup, four parts. Make an emulsion, and add

twenty-four parts. Sugar, Dissolve by gentle heat, and add

Orange-flower water, Duclou.

#### Pills of Cod-liver Oil.

R. Cod-liver oil, five drachms. Water, ten grains. Caustic soda, forty grains. Heat together, and with powdered tragacanth form mass, to be divided into one hundred pills, each of which contains three grains of the oil. Deschamps.

#### Liniment of Cod-liver Oil.

R. Cod-liver oil, one fl. ounce. Water of ammonia, half a fl. ounce. Mix. Cod-liver oil, four fl. drachms. Lead water, two fl. drachms. Yolk of egg, three drachms. Mix. As an application to ulcers, etc. Brefeld.

#### Ointment of Cod-liver Oil.

R. Cod-liver oil. three fl. ounces. Sparmaceti, six drachms. two drachms. White wax, Melt together, and stir till cold. Beasley.

R. Caustic soda, one ounce. Water, two fl. ounces and a half. Dissolve, and add

Cod-liver oil, eight fl. ounces. Agitate briskly. Deschamps.

R. Cod-liver oil, ten parts. Lead water, five parts. Lard, ten parts. Mix. Brefeld.

#### Compound Ointment of Cod-liver Oil.

R. Cod-liver oil, one fl. drachm. Red oxide of mercury, four grains. two scruples. Simple cerate, Mix. Cunier.

R. Cod-liver oil, three drachms. Extract of wood soot, drachms. Citrine ointment, one drachm. Beef marrow, six ounces. Carron. In opacities of the cornea, and scrofulous

ophthalmia.

# Compound Oil of Cod Liver.

two parts. R. Cod-liver oil, one fl. drachm. two fl. drachms. Walnut oil,

Mix. A drop or two to be introduced between the eyelids in opacities of the cornea. Radius.

OLEUM OLIVÆ.

# OLIVE OIL.

The oil of the fruit of Olea Europæa, a small tree, originally from Syria, but now extensively cultivated in the countries bordering on the Mediterranean.

Sex. Syst. Diand. monog. Nat. Syst. Ole-

Linn. Sp. Pl. 11. Griffith, Med. Bot. 442. Good olive oil is an unctuous fluid, of a pale yellow or greenish color; almost in-odorous, and of a bland taste. It is princi-pally used as an article of food, but is also employed in medicine as a demulcent, emollient, and laxative, and in the com-position of liniments, ointments, etc. The dose, as a laxative, is about a fl. ounce.

#### Olive Oil Mixture.

R. Syrup of gum, four fl. ounces. half fl. ounce. Olive oil, Mix. As a laxative. Radius.

R. Olive oil, eight fl. ounces. Aromatic spirit of two fl. drachms. ammonia, Mix. Three tablespoonfuls night and morning, as an anthelmintic.

one fl. ounce. R. Olive oil, Solution carbonate of half fl. drachm. potassium, seven fl. ounces. Mint water, Mix. Guy's Hosp.

one fl. ounce. R. Olive oil, Liquid carbonate of one fl. drachm. ammonium, seven fl. ounces. Mint water, Mix. Guy's Hosp.

# Olive Oil Clyster.

R. Common salt, one tablespoonful. Olive oil, Molasses, two tablespoonfuls. each, Warm water, one pint. Mix. U. S. Dis.

one ounce. R. Manna, Compound decoction of ten fl. ounces. chamomile, Dissolve, and add

Olive oil, one fl. ounce. Sulphate of magnesium, half an ounce. Mix. Dub. Ph. 1826.

# OLEUM RICINI.

#### CASTOR OIL.

The oil of the seeds of Ricinus communis, a perennial tree in tropical countries, but an annual herbaceous plant in temperate latitudes. The seeds are ovate, compressed, bean-like, of a grayish-ash-color, marbled with reddish-brown, not unlike the dog-tick in appearance.

Sex. Syst. Monœc. monad. Nat. Syst.

Euphorbiaceæ.

Linn. Sp. Pl. 1430. Griffith, Med. Bot. 599. The oil, which is generally obtained by expression, is a thick, viscous, colorless fluid, with a faint but unpleasant odor, and a mild but nauseous taste, followed by a slight sensation of acridity. It is a mild but prompt cathartic, acting rather as an evacuant than as an excitant of the alvine secretions. The dose is about a fl. ounce; for infants, from one to four fl. drachms. Its disgusting taste is best disguised by mixing it with froth of porter.

# Oleaginous Mixture.

R. Castor oil, one ounce. Gum Arabic, seven scruples. half an ounce. Mint water, Water, two ounces. Syrup, one ounce. Make an emulsion. Paris Codex. In some cases, as in dysentery, it is of benefit to add thirty or forty drops of

laudanum to the mixture.

R. Castor oil, Mucilage of gum Arabic, Syrup of orgeat, two ounces. each, ten fl. ounces. Water, Make an emulsion. Dose, as last. Béral.

R. Castor oil, one ounce. Yolk of egg, one. Orange-flower water, Simple syrup, each, half an ounce. Water, two ounces. Cottereau. Make an emulsion.

eleven drachms. R. Castor oil, half a Powdered tragacanth, drachm. White sugar, seventy-five grains.

Syrup of orange

six fl. drachms. flowers. Triturate the tragacanth with the sugar; add the syrup, and rub well in a mortar until the mucilage begins to thicken, then add the oil, and continue rubbing till it is homogeneous, adding the water gradually during the process.

#### Emulsion of Castor Oil Seed.

R. Castor oil seed, half an ounce. Anise water, four fl. ounces. two drachms. Sugar,

Deprive the seeds of their exterior coat, triturate them to a uniform pulp with a little water and the sugar, and finally add the remainder of the water gradually, and strain through a coarse cloth. The seeds are more acrimonious than the oil, wherefore it is better to commence this preparation in small doses. Dose, a teaspoonful, to be gradually increased to a tablespoonful. W. Procter, Jr.

#### Anthelmintic Emulsion.

R. Castor oil, Mucilage of gum Arabic, one ounce. Syrup of Corsica moss,) each, Water of santonica, two fl. chamomile, ounces. Emulsion of sweet almonds, eight fl. ounces. Mix, and make an emulsion. As an anthelmintic. Dose, a fl. ounce. Béral.

# Castor Oil Clyster.

R. Castor oil, one ounce and a half. Yolk of eggs, two. Infusion of chamomile,

six fl. ounces.

Mix. Radius.

#### Mixture of Castor Oil and Ether.

R. Castor oil, one ounce. Ether, two drachms. Mix. A spoonful every two hours, advised as an anthelmintic, in cases of tapeworm. Radius.

#### Bandoline.

R. Castor oil, two ounces. Spermaceti, one drachm. Arnotta, half a drachm. Oil of bergamot, one drachm. Otto of roses,

Water, two and a half fl. ounces. | Mix, melt by a moderate heat, and strain. To stiffen and keep hair in form. Redwood.

# OLEUM TEREBINTHINE.

# OIL OF TURPENTINE.

This is usually known as Spirits of Tur-pentine, and is the volatile oil obtained from the turpentine afforded by several species of Pinus. It is limpid, colorless, of a strong, penetrating, peculiar odor, and of a warm, pungent, somewhat bitterish taste. It is stimulant, diuretic, anthelmintic, and cathartic, and externally, rubefacient.

# Rectified Oil of Turpentine.

R. Oil of turpentine, one part. Water, six parts. Distil as long as the oil comes over colorless, and separate it from the water. Ph. Germ.

For internal use.

# Purified Oil of Turpentine.

R. Oil of turpentine, eight parts. Alcohol, one part. Agitate together, and pour off the spirit, and repeat the process several times. Nimmo.

# Lotion for Chilblains.

R. Oil of turpentine, four parts. Sulphuric acid, one part. Olive oil, ten to twenty parts. Mix. To be applied to the affected part, night and morning. Gassicourt.

# Confection of Turpentine.

R. Oil of turpentine, one fl. ounce. Powdered liquorice root, one ounce. Clarified honey, two ounces. Rub oil with the powder, afterwards with the honey, and mix thoroughly. Dose, one to two drachms. Used like the next. Brit. Ph.

#### Oil of Turpentine and Honey.

R. Oil of turpentine, two fl. drachms. one fl. ounce. Honey,

Mix. A teaspoonful night and morning, in five drops. warm tea. In sciatica.

### Lotion for Toothache.

R. Oil of turpentine, one fl. drachm and a half.

Oil of cloves,
Oil of cajeput,
each, half a fl. drachm.
Balsam of Peru, two drachms.
Opium, two scruples.
To be well rubbed together. As an application to the face, in cases of toothache.

Beasley.

# Odontalgic Solution.

R. Camphor, one part.
Oil of turpentine, four parts.
Dissolve. Apply to the decayed tooth.
Chapman.

# Turpentine Emulsion.

R. Oil of turpentine,
Water, each, one fl. ounce.
Powdered gum Arabic, one scruple.
Pour the oil into a vial, agitate with the
powder, and afterwards with the water
gradually added.

J. W. Forbes.

# Vermifuge Emulsion.

R. Oil of turpentine, six fl. drachms.
Gum Arabic, two drachms.
Chamomile water, six fl. ounces.
Sulphuric ether, two fl. drachms.
Mix. Two spoonfuls night and morning, in cases of tapeworm.

Radius.

# Oil of Turpentine Mixture.

R. Oil of turpentine, one hundred and twenty drops.

Powdered gum Arabic,

"sugar,
each, two drachms.
Laudanum, sixty drops.
Compound spirit

of lavender, two fl. drachms.
Mint water, five fl. ounces.
Mix. A tablespoonful every two hours, in low forms of fever, etc.

Ellis.

R. Oil of turpentine, one fl. ounce.
Powdered gum Arabic,
" sugar,

each, two drachms.

Mint water, four fl. ounces.

Mix. A tablespoonful every two hours till it operates. An active purgative. Frank.

R. Oil of turpentine, three fl. drachms.
Yolks of eggs, two.
Syrup of mint, two fl. ounces.
"orange flowers,
Ether, each, one fl. ounce.
Tincture of cinnamon, half a
fl. drachm.

Mix. A spoonful three times a day, in neuralgia and rheumatism. Foy.

R. Oil of turpentine, one fl. ounce.
Yolk of egg, one.
Triturate together, and add, gradually,

Emulsion of
almonds, four fl. ounces.
Syrup of orange, two fl. ounces.
Compound spirit of
lavender, four fl. drachms.
Oil of cinnamon, four drops.
One fl. ounce three times a day, advised as

R. Honey,
Oil of turpentine,
Ammoniated tincture
of guaiacum,
Oil of cloves,

a purge in iritis.

" lemon, each, three drops.

Mix. A teaspoonful twice or three times a day, in sciatica and lumbago. Copland.

# Ointment of Turpentine.

R. Oil of turpentine, one fl. ounce.

Resin, in coarse
powder, sixty grains.
Yellow wax,

Prepared lard, each, half an ounce.

Melt by a steam or water-bath, and stir constantly while cooling.

Brit. Ph.

### Turpentine Clyster.

R. Oil of turpentine, one fl. ounce and a half.
Yolk of egg, one.
Tepid infusion of flaxseed, one pint.

Ellis.

Brit. Ph.

Carmichael.

R. Oil of turpentine, one fl. ounce.

Mucilage of starch, fifteen
fl. ounces.

Mix.

Mix.

# Turpentine and Ether.

R. Oil of turpentine, Ether, equal parts. or syrup, in biliary calculi, and as an external application in rheumatism.

Cottereau.

# Turpentine Liniment.

R. Oleo-infusion of chamomile, equal parts. Oil of turpentine, Mix. Paris Codex.

R. Oil of turpentine, " olives, each, two fl. ounces. Tincture of camphor, one fl. ounce. Water of ammonia, one fl. drachm. Mix. As an external rubefacient. Ellis.

R. Soft soap. two ounces. Camphor, one ounce. Oil of turpentine, sixteen fl. ounces.

Mix. A powerful rubefacient. Brit. Ph.

R. Oil of turpentine, half a pint. Resin cerate, twelve troyounces. Melt the cerate and add the turpentine.

U. S. Ph. This is known as Kentish's ointment, and is much used as an application to burns and scalds.

# Acetic Turpentine Liniment.

R. Oil of turpentine, each, one Acetic acid. fl. ounce. Liniment of camphor, Brit. Ph.

R. Oil of turpentine, three fl. ounces. A cetic acid, five fl. drachms. Rose water, two and a half fl. ounces. Essence of lemon, four fl. scruples. Yolk of egg, As an external embrocation and liniment to phthisis. Stokes.

# Opiated Turpentine Liniment.

R. Oil of turpentine, one fl. ounce. chamomile, two fl. ounces. one fl. drachm. Laudanum, Mix. As a lotion in neuralgia. Recamier.

# Starkey's Soap.

R. Dry carbonate of potassium, equal parts. Oil of turpentine, Turpentine,

Mix. Dose, twenty to forty drops, in honey | Mix the potassa with the oil, then add the turpentine, and triturate till the mixture is of the consistence of honey. Used in dropsy and in gonorrhea. Dose, eight to ten grains. Guibourt.

#### Diuretic Wine.

R. Oil of turpentine, two fl. drachms. Lemon juice, one fl. ounce. Wine, four fl. ounces. Mix. For a single dose. Pierquin.

#### OLEUM TIGLII.

#### CROTON OIL.

This oil is procured, for the most part, from the seed of the Croton tiglium, but also from those of two or three other species. They are all natives of India, and the adjoining parts of Asia. The C. tiglium is a moderate-sized shrub, bearing a somewhat triangular nut, containing three ovoid seeds, of a reddish-brown color, having an oleaginous kernel, which affords, on pressure, the oil in question.

Sex. Syst. Monœc. monadelph. Nat. Syst.

Euphorbiaceæ.

Linn. Sp. Pl. 1426. Griffith, Med. Bot.

The oil, when pure and fresh, is nearly colorless, or yellowish; but when kept for some time becomes of a reddish-brown or orange color. It has a faint but peculiar smell, and an acrid and hot taste. It is a powerful hydragogue purgative, and has been much used in dropsy, apoplexy, and visceral obstructions; when applied externally it causes irritation and inflammation of the skin, followed by a pustular erup-tion; and has been successfully employed in rheumatism, neuralgia, and bronchial and pulmonary affections. Dose for an adult, one to two drops.

#### Bolus of Croton Oil.

R. Croton oil, one drop. Powdered gum Arabic, half a drachm.

Syrup of orange flowers, sufficient. Mix, and make four boluses. Two to four to be taken in the morning.

# Pills of Croton Oil.

R. Croton oil, six drops. half a drachm. Soap, Oil of caraway, eight drops. Powdered liquorice root, sufficient. Mix, and make twelve pills. Dose, one or Reece. more.

six drops. R. Croton oil, Pills of aloes and myrrh, one drachm and a half.

one scruple. Powdered liquorice root, sufficient. Mix, and make thirty pills. Dose, two to Copland. three, or more.

one drop. R. Croton oil, sufficient. Crumb of bread, Mix, and make four pills. One, every hour, until they operate. Ellis.

two drops. R. Croton oil, two grains. Soap, sufficient. Gum Arabic, Mix, and make four pills. Foy.

#### Compound Croton Oil Pills.

R. Powdered scammony,

sixty-four aloes, each, parts. Croton oil, three parts. four parts. Alcohol,

Dissolve the oil in the alcohol; add the solution, gradually, to a mixture of the powders, and beat into a mass. Divide into pills of five grains. One to three for children of fourteen years of age; three to five for adults.

# Pills of Croton Oil and Quinia.

R. Croton oil soap, three grains. Sulphate of quinia, one drachm. Extract of dandelion, sufficient. Mix, and make twenty pills. One for a Caventou. dose.

# Pills of Croton Oil and Blue Mass.

R. Croton oil soap, three grains. Extract of henbane, Blue mass, each,

twenty-four grains. Oil of pimento, twelve minims. Mix, and make twelve pills. Two at bed-Neligan. time.

#### Lozenges of Croton Oil.

R. Vanilla chocolate, two drachms. Sugar, one drachm. Starch, one scruple. five drops. Croton oil, Mix, and make thirty lozenges.

Soubeiran.

#### Soap of Croton Oil.

R. Croton oil, two parts. Solution of caustic soda, one part. smaller doses.

Mix; put into paper moulds; in a few days slice, and keep in well-stopped bottles. Dose, one to three grains, in pills.

#### Tincture of Croton Oil.

R. Croton oil, sixteen drops. Alcohol, one ounce.

Macerate for six or eight days, and filter. Dose, fifteen to twenty-five drops.

Soubeiran.

R. Croton oil, four drops. Tincture of myrrh, one fl. ounce. Mix, digest, and filter. Dose, one to two fl. drachms. Bateman.

R. Croton oil, eight drops. Alcohol, one fl. ounce. Mix, digest, and filter. Dose, half to one fl. drachm. Nimmo.

#### Emulsion of Croton Oil.

R. Croton oil, three drops. Almond oil, half a fl. ounce. Powdered gum

two drachms. Arabic,

Triturate well, and gradually add Syrup of orange flowers,

operates.

one fl. ounce. Chamomile water, five fl. ounces. A tablespoonful every two hours, till it Phæbus.

R. Croton oil, one drop. Yolk of egg, two drachms. Orange-flower water, Mint water, each, one ounce.

Make an emulsion. Foy.

#### Mixture of Croton Oil.

one or two drops. R. Croton oil, Mucilage of gum Arabic, Distilled water, each, one fl. ounce. Mix. A teaspoonful every two hours, until it operates.

R. Croton oil, two drops. two drachms. White sugar, Gum Arabic, half a drachm. Tincture of cardamom,

half a fl. drachm.

one fl. ounce. Distilled water, Mix. Dose, two dessertspoonfuls every three or four hours. As it is agreeable to the taste, it is suited to children, but in

417

R. Tincture of croton oil, twenty-five drops. Mucilage of gum Arabic. one drachm. Water, one ounce. Mix. In the morning, fasting. Foy.

Saponaceous Solution of Croton Oil. R. Croton oil, eight drops. Potassa, six grains. Distilled water, two fl. drachms. Mix. From three to six drops may be given for a dose.

#### Liniment of Croton Oil.

R. Croton oil, one fl. ounce. Oil of cajeput, Rectified spirit, each, three and a half fl. ounces.

Mix. Brit. Ph.

R. Croton oil. one part. Olive oil, five parts. Mix. Pereira.

R. Croton oil, one fl. drachm. Oil of turpentine, one fl. ounce. Mix. Corrigan.

four drops. R. Croton oil, Carbonate of sodium, ten grains. Spirit of mint, half an ounce. In friction, in rheumatism. Foy.

R. Croton oil, Solution of potassa, half fl. drachm. Rose water. two fl. ounces. Mix. To be used twice a day till pustules appear. J. Allen.

# Embrocation of Croton Oil.

R. Croton oil, twenty minims. Tartar emetic, one scruple. Solution of potassa,

one fl. drachm. Water, eight fl. drachms. Mix. To keep up a mild eruption on the skin. Morris.

#### Ointment of Croton Oil.

R. Croton oil, Lard, Mix.

#### Cerate of Croton Oil.

R. Lard, two and a half parts. Wax, half a part. Mix together, and when nearly cold, mix with them

Croton oil, one part. Caventou.

R. Soap cerate, four parts. Melt, and when semifluid, add

Croton oil, one part. Beasley.

# Plaster of Croton Oil.

R. Lead plaster, four parts. Melt, and when nearly cold, add

Croton oil, one part. Spread on linen, for an adhesive and irritating plaster. Bouchardat.

R. Lead plaster, eighty parts. Melt, and when nearly cold, add

Croton oil, twenty parts. To be spread as above. A very active Bouchardat. counter-irritant.

#### Ointment of Croton Oil.

R. Croton oil, ten minims. half an ounce. Ainslie. Mix.

# OPIUM.

#### OPIUM.

Opium is the inspissated juice obtained from the unripe capsules of the Papaver somniferum by incision and spontaneous evaporation; it presents many varieties, as the Turkey or Smyrna, the East Indian or Bengal, the Persian, etc.; of which the first is the best, and affords the largest proportion of morphia.

Opium contains various peculiar princi-ples, several of which are officinal, and are treated of under their respective titles. Turkey opium is in flattened, rounded masses, of half a pound to two pounds in weight, covered externally with the seed-vessels of some species of dock. The texture is soft; the color is pale brown; the odor is strong and narcotic, and the taste bitter and acrid. When completely dried at 212°, it should contain ten per cent. of

Opium is stimulant, in small and repeated doses, narcotic in large; and also antispas-modic, diaphoretic, sedative, and anodyne. It is used to fulfil a variety of indications; fifteen minims.
half an ounce.
to procure sleep, to lull pain, to check morbid discharges, to alleviate cough, etc. The medium dose is one grain, but in spasm, etc.,

Niemeyer. it is given in much larger doses.

# Extract of Opium. (Aqueous.)

Opium, twelve troyounces. Water, five pints.

Cut the opium into small fragments, macerate it for twenty-four hours in a pint of water, triturate to a soft mass, and express; add another pint of water to the residuum, macerate for twenty-four hours, and again express; repeat this process till all the water has been used. Filter the several infusions, unite them, and evaporate on a water-bath to due consistence. U. S. Ph.

Dose, half to one grain.

# Liquid Extract of Opium.

R. Extract of opium, one ounce.

Distilled water, sixteen fl. ounces.

Rectified spirit, four fl. ounces.

Dissolve the extract in the water by maceration, add the spirit, and filter. Dose, ten to thirty minims.

Brit. Ph.

# Extract of Opium. (Aqueo-Alcoholic.)

R. Opium, one part.
Alcohol, four parts.

Cut the opium in small pieces, and digest it in the alcohol for two days, at a gentle heat; express, and treat the residue with four parts of warm water; express, unite the solutions, and evaporate to due consistence.

Taddei.

# Extract of Opium. (Acetous.)

R. Opium, one ounce. Distilled vinegar, two pints.

Cut the opium into small pieces, digest in the vinegar for two days, on a sand-bath, stirring from time to time, decant, filter, and evaporate to due consistence.

Soubeiran.

# Extract of Opium. (Alcoholic.)

R. Opium, at will. Alcohol, sufficient.

Reduce the opium to small pieces, digest in the alcohol in a closed vessel, by a gentle heat, often stirring, filter, and distil off the alcohol, till the residue is of due consistence.

Antwerp Ph.

#### Extract of Opium. (Vinous.)

R. Opium, one part. White wine, four parts.

Reduce the opium to small pieces, macerate it in the wine for twenty-four hours, occasionally stirring; express. Macerate the residue in two more parts of wine, and express; unite the solutions, and evaporate to proper consistence. Paris Codex.

# Extract of Opium. (Denarcotized.)

R. Aqueous extract of

opium, at will.

Rub it with a little water, put it in a flask, add sulphuric ether, agitate, and decant; repeat the process with other portions of ether, as long as anything is taken up, and evaporate the residuum to a pilular consistence.

Robiquet.

R. Aqueous extract of

opium, four parts. Resin, one part.

Beat together, and add

Boiling water, sixteen parts.

Boil till reduced one-half, add as much cold water as has been boiled away, filter, and evaporate.

Limosin.—Lamothe.

# Extract of Opium. (By Fermentation.)

R. Opium, one part. Water, eight parts.

Mix, and add

Yeast, sufficient.

Let ferment for a week, at a temperature of 68° to 70°; then dilute with water, filter, boil till all vinous odor is dissipated, and evaporate to proper consistence. Deyeux.

# Extract of Opium. (Roasted.)

R. Powdered opium, one part.

Heat it on a flat dish, over a moderate fire, constantly stirring, as long as fumes are given off. Treat it twice with six times its weight of cold water, filter, and evaporate.

Guibourt.

The last three forms of extract, whilst containing the full proportion of morphia, are deprived of the irritating and virose

principles of opium.

# Deodorized Tincture of Opium. (Elixir of Opium.)

R. Opium, dried, and in powder,
No. 50, two troyounces
and a half.

Ether,
Alcohol, each,
Water,
half a pint.
sufficient.

оргим. 419

Macerate the opium in half a pint of water for twenty-four hours, and express; macerate the dregs twice, successively, in eight fl. ounces of water; mix, and strain the liquors; evaporate to four fl. ounces, and agitate several times with the ether. Separate the ether, evaporate the liquid until the ether has been completely expelled; mix with twenty fl. ounces of water, filter, add sufficient water to make the filtrate measure a pint and a half, and add the alcohol.

U. S. Ph.

About the same strength as laudanum. Dose, twenty-five drops.

# Compound Powder of Opium and Chalk.

R. Powdered opium, six grains.

"cinnamon, one drachm.

long pepper,

eight grains.

Prepared chalk,

one drachm and a half.

Mix, and divide into twelve powders. One, three or four times a day. In diarrhea.

Ellis.

# Powder of Roasted Opium.

R. Powdered opium, at will.

Put it in a flat dish; moisten it with white wine, expose to a moderate heat, constantly stirring till it is perfectly dry; repeat the operation till the opium is one-half reduced, moisten with vinegar, and rub into paste; dry, and pulverize. As an astringent in hemorrhages and mucous discharges, in doses of one or two grains, with some bitter extract.

Giordano.

#### Compound Powder of Opium.

R. Powdered opium,

46

one ounce and a half. pepper, two ounces.

" ginger, five ounces.

" caraway, six ounces.

" tragacanth,

half an ounce.

Mix thoroughly, and pass through a fine sieve. Dose, one to five grains.

Brit. Ph.

# Powder of Opium, Camphor, etc.

R. Powdered opium, ten grains.

"camphor, two scruples.

Carbonate of ammonium,

Starch, four scruples. fifteen grains.

Mix, and make eight powders. One, every hour or two, as an antispasmodic.

Swediaur.

# Powder of Opium and Nitre.

R. Powdered opium, four grains.

Sugar of milk, each, one drachm and a half.

Mix, and make six powders. As an antispasmodic. Phabus.

# Powder of Opium and Sulphur.

R. Powdered opium,

" camphor, each, two grains.

" sulphur,

" sugar, each, half a drachm.

Mix, and make four powders. One, every three hours, in lead colic. Hildebrand.

# Powder of Opium and Musk.

R. Powdered opium,
Musk,
Magnesia,
Sugar of milk,
Mix. To be taken every two to four hours, in delirium tremens.

two grains.
five grains.
ten grains.
ten grains.
Vogt.

# Powder of Opium and Antimony.

R. Dover's powder,

James's powder, each, four grains.

Mix. To be taken every four hours, in obstinate rheumatic pains.

Brera.

#### Pills of Opium.

R. Powdered opium, twenty-four grains.
Soap, six grains.
Beat into a mass with water, and divide into twenty-four pills.

U. S. Ph.

#### Pills of Opium, Henbane, and Hemlock.

R. Powdered opium, four grains. Extract of henbane, hemlock,

each, fifteen grains.

Mix, and divide into ten pills. One at night, when an anodyne is required. Ellis.

# Pills of Opium and Sulphuret of Antimony.

R. Extract of opium, ten grains.

Precip. sulphuret of
antimony, twelve grains.

Nitrate of potassium, twentyfour grains. sufficient. Syrup, Mix, and make six pills. One at bedtime, to cause perspiration, and to ease pain in Recamier. rheumatism.

# Pills of Opium and Foxglove.

R. Powdered opium,

foxglove, each,

six grains. sufficient. Conserve of roses, Mix, and make twelve pills. One, every Ellis. four hours, in asthma, etc.

# Aromatic Pills of Opium.

R. Extract of opium, Saffron, each, one Powdered cinnamon, drachm. nutmeg, cardamom,

Syrup of orange flowers, sufficient. Mix, and make pills of three grains. Known as Oriental Pills, and considered to be aphrodisiac. One to three, at bed-

# Pills of Opium and Camphor.

R. Extract of opium, three grains. Camphor, six grains. sufficient. Syrup, Mix, and make six pills. One to three a

day, as an anodyne and antispasmodic.

# Pills of Opium and Butter of Cacao.

R. Butter of cacao, Powdered gum Arabic, forty-eight grains. Extract of opium, twelve grains. Syrup of ipecacuanha, sufficient. Mix, and make pills of five grains. One in the evening, as an anodyne and expectorant. Petit.

#### Pills of Opium and Musk.

R. Extract of opium, twelve grains. valerian,

Musk, each, twenty-four grains. Mix, and make sixteen pills. One, then two, then three a day, in hysteria. Foy.

# Pills of Opium and Sulphate of Zinc.

R. Extract of opium, one grain. Sulphate of zinc, four grains. sufficient. Syrup of gum,

Mix, and make four pills. Two a day, in painful mucous discharges from the urethra or vagina.

#### Pills of Opium, Hemlock, and Calomel.

R. Extract of opium,

eighteen grains. hemlock. one drachm. Calomel. thirty-six grains. Syrup of mallow, sufficient. Mix, and make thirty-six pills. Two to six a day, as an alterative and sedative, in organic affections.

R. Opium, four grains. Calomel, six grains. Tartar emetic, one grain. Extract of hemlock, one scruple. Mix, and make eight pills; two to be taken at bedtime, in rheumatic pains. Brande.

# Pills of Opium and Acetate of Lead.

R. Acetate of lead, thirty-six grains. Powdered opium, six grains. Confection of roses, six grains.

Mix well. Dose, three to five grains.

Brit. Ph.

R. Extract of opium, one grain. A cetate of lead, four grains. Powdered henbane, eight grains. Mix, and make eight pills. One, morning and evening, in epilepsy. Recamier.

R. Acetate of lead,

twenty-four grains. three grains. Powdered opium, sufficient. Syrup, Mix, and make twelve pills. One every three hours, in hemorrhages, dysentery, and cholera. Chapman.

# Pills of Opium and Acetate of Mercury.

R. Extract of opium, Acetate of mercury, Camphor, each, twelve grains. Syrup of poppies, sufficient. Mix, and make thirty pills. One, morning and evening, in syphilis. Carmichael.

# Pills of Opium, Nitrate of Silver, etc.

R. Extract of opium,

seventy-two grains. Nitrate of silver, six grains. Musk, forty-eight grains. Camphor, ninety-six grains.

Mix, and make ninety-six pills. One, morning and evening, gradually increasing the dose, in epilepsy, paralysis, etc. Foy.

# Pills of Opium, Castor, etc.

R. Opium, half a grain.
Castor, six and a half grains.
Powdered digitalis, one grain.
Syrup, sufficient.
Make two pills. One to be taken twice or thrice a day. In spasmodic asthma and dyspnæa.

A. T. Thomson.

# Pills of Opium and Liquorice.

R. Powdered opium, ten grains. Extract of liquorice, one drachm.

Mix, and make eighty pills. One, occasionally, as an expectorant. Wirt. Ph.

# Confection of Opium.

R. Powdered opium, two hundred and seventy grains. Aromatic powder, six troyounces. Clarified honey,

fourteen troyounces.

Rub the opium with the aromatic powder, add the honey, and beat together till thoroughly mixed. U. S. Ph.

R. Compound powder of opium, one hundred and ninety-two grains.

Syrup, one fl. ounce.

Mix. Brit. Ph.

As a stimulant narcotic, in atonic gout, flatulent colic, etc. It contains one grain of opium in thirty-six grains of the mass.

R. Powdered catechu, four ounces.

" kino, three ounces.

" nutmeg,

" cinnamon,

each, one ounce. Opium, dissolved in

wine, one drachm and a half.
Syrup of red roses,

twenty-seven ounces.

Mix. Each drachm contains rather less than half a grain of opium. Soubeiran.

# Anti-Odontalgic Mass.

R. Opium, two grains.
White wax, two drachms.
Mastich, one drachm.

Oil of almonds, three drachms.
" cloves twelve drops.
Cochineal, eight grains.
Rub into a uniform mass. To fill carious teeth.

Clarus.

R. Opium, five grains.
Oil of cloves, three drops.
Extract of henbane, five grains.
"belladonna, ten grains.
Powdered pellitory, sufficient.
Mix, and make a consistent mass. Used as above.

Rust.

# Odontalgic Pills.

R. Powdered opium,

belladonna

root,

Powdered pellitory,

Yellow wax,

each,

five

grammes

(77 grs.).

seven grammes (108 grains).

Expressed oil of almonds,

two grammes (31 grains).

Oil of cloves,

"cajeput, each, fifteen drops.

Triturate in a warm mortar to form a pill mass, and divide into four hundred and eighty pills, each weighing five centigrammes (three-quarter grain); roll them in powdered cloves.

Ph. Germ.

#### Balsam for the Toothache.

R. Opium, one scruple.
Oil of turpentine,
one drachm and a half.
Oil of cloves,
" cajeput, each, half a drachm.
Balsam of Peru, two drachms.
Mix.

Beasley.

R. Opium,

Camphor, each, two scruples.

Dissolve in a little alcohol, and add

Oil of cloves, one drachm.

" nutmeg, six drachms.
Guaiacum, two drachms.

Wan Mons.

# Odontalgic Drops.

R. Wine of opium,
Hoffmann's anodyne,
Oil of peppermint,

equal
parts.

Mix. In frictions on the cheek, and applied to carious teeth, on cotton.

Dobberan.

# Toothache Drops.

R. Opium,
Camphor, each,
Alcohol,
Oil of cloves,
ten grains.
sufficient.

" cajeput, each, one drachm.
Mix. Copland.

# Antidysenteric Opiate.

R. Purified opium, four grains.
Ipecacuanha, half a drachm.
Tormentilla, one drachm.
Syrup of whortleberries,
Conserve of red roses,
each, six drachms.

Mix. Dose, one drachm, every hour.

Quarin.

# Plaster of Opium.

R. Extract of opium, one troyounce.
Burgundy pitch, three troyounces.
Lead plaster, twelve troyounces.
Water, three fl. ounces.
Mix extract with water, evaporate to a fl.
ounce and a half, add to the pitch and plaster previously melted together, stir

until moisture has evaporated, and cool.

U. S. Ph.

- R. Opium, in fine powder, one ounce.
  Resin plaster, nine ounces.
  Melt the plaster, gradually add the powder, and mix thoroughly.

  Brit. Ph.
- R. Elemi, eight parts.
  Common turpentine, fifteen parts.
  Yellow wax, five parts.

Melt by a moderate heat, strain, and add
Powdered olibanum, eight parts.

"benzoin, four parts.

opium, two parts.

Balsam of Peru, one part.

Mix thoroughly.

As an application in rheumatic and other

As an application in rheumatic and other pains.

#### Plaster of Opium and Camphor.

R. Powdered opium,

"camphor,
soap,
Laudanum,
to make a plaster.

"each, one drachm.
sufficient

R. Opium,
Camphor, each, half a drachm.
Lead plaster, sufficient.
Melt and mix. For local pains. Paris.

# Plaster of Opium and Galbanum.

R. Opium, one drachm.
Simple plaster, two ounces.
Galbanum, one ounce.
Oil of caraway, two drachms.

Melt the last three ingredients, and add the opium. As an application to the abdomen, in flatulent colic, diarrhœa, and dysentery. Swediaur.

# Liniment of Opium.

R. Tincture of opium, Liniment of soap,

each, two fl. ounces.

Mix. Brit. Ph. As an embrocation in rheumatic pains, sprains, etc.

# Opiate Liniment.

R. Olive oil, two fl. ounces.
Tincture of opium, two fl. drachms.
Solution of subacetate
of lead, half a fl. ounce.
Mix.

Ellis.

R. Ether, five fl. drachms.
Spirit of camphor, five fl. ounces.
Laudanum, one fl. ounce.

Mix. As an embrocation in flatulent colic.

Ainslie.

R. Tincture of opium,
Simple ointment, each, one part.
Camphorated oil, eight parts.

Mix. As an embrocation in rheumatism, toothache, earache, etc. Paris Codex.

B. Laudanum,
Hoffmann's anodyne,
Glycerin,
Extract of belladonna,
grains.

Mix. Apply upon flannel, and cover with oiled silk, in neuralgic affections. Fuller.

### Liniment of Laudanum and Lime Water.

R. Tincture of opium,
two fl. drachms and a half.
Lime water,
Oil of almonds,
two fl. ounces.

Mix. To be applied on lint, four times a day, on painful syphilitic pustules.

Phæbus.

# Liniment of Opium and Oil of Chamomile.

R. Opium,
Oil of chamomile, each,
almonds,
Wix. As a friction around the eyes, in spasm of the eyelids.

Weller.

#### Anti-Otitic Mixture.

R. Opium,
Saffron,
Myrrh,
Juice of mallow,
Oil of almonds,
Triturate well together, and strain. As an injection into the ear, in pain in that organ.

Pierquin.

#### Laudanum Ointment.

R. Tincture of opium, one drachm. Spermaceti ointment, two ounces. Mix. As an application, morning and evening, to painful hemorrhoids. Brera.

# Anodyne Ointment.

R. Syrup of opium,
Lard,
Essence of roses,
Mix. For chapped lips.

one ounce.
three ounces.
four drops.

Pierquin.

R. Extract of opium,
Water, each, one part.
Simple ointment, eighteen parts.
Mix thoroughly. Ph. Germ.

B. Opium, half a drachm.
Extract of hemlock, one drachm.
Basilicon ointment, half an ounce.
Mix. As an application to gangrenous ulcers.

Carus.

R. Opium, ten grains.
Alum, fifteen grains.
Lard, half an ounce.
Mix. In the treatment of ulcerated, atonic buboes.
Simon.

# Ointment of Opium and Tar.

R. Powdered opium, two drachms.
Tar ointment, one ounce.
Mix. As an application to hemorrhoids.

# Cerate of Opium.

R. Extract of opium,
Distilled water, each, one part.
Dissolve and add

Galien's cerate, ninety-eight parts.

Mix well. Paris Codex.

R. Opium, ten grains.
Yolk of egg, one.
Mix well, and add

Simple cerate, one ounce.

Triturate well together.

Lagneau.

# Syrup of Opium.

R. Extract of opium, two parts.
Water, eight parts.
Syrup, nine hundred and ninety parts.

Dissolve the opium in the water, filter, and add to the syrup. Paris Codex.

The syrup of Ph. Germ. is of just one-half this strength.

# Succinated Syrup of Opium.

R. Syrup of opium,
Spirit of amber,
two grains.

Soubeiran.

# Anodyne Collyrium.

R. Extract of opium, ten grains.
Camphor, six grains.
Boiling water, twelve fl. ounces.
Rub the opium and camphor together, and add the water, and strain.

Ellis.

R. Extract of opium, four grains.
Rose water, four troyounces.
Dissolve, and strain.

Paris Codex.

#### Collyrium of Wine of Opium.

R. Decoction of flaxseed, four ounces.
Saffron, one drachm.
Wine of opium, one drachm.
Macerate the saffron in the flaxseed decoction, strain, and add the wine of opium.

Foy.

R. Acetate of copper, three grains.

Dissolve in

Rose water, eight fl. ounces, and add

oids. Wine of opium, one fl. drachm. Ellis. In chronic ophthalmia. Foy.

# Opium Fomentation.

R. Extract of opium, two drachms.
Boiling water, one pint.
Dissolve, and strain. As a fomentation in pruriginous affections.

Radius.

# Fomentation of Wine of Opium.

R. Opium, one ounce. Wine, two pints.

Boil down to one pint. As an anodyne application, in gouty and rheumatic pains, etc.

Pierquin.

# Injection of Opium.

R. Opium, twelve grains.
Solution of subacetate
of lead, twelve drops.
Water, nine ounces.
Mix. As an injection in gonorrhœa.

Girtenner.

R. Extract of opium, six grains. belladonna, one drachm and a half.

Decoction of wild lettuce, one pound.

Dissolve. As an injection in neuralgia, and hemorrhage of the urethra and vagina.

R. Extract of opium,

one and a half grains.

Distilled water, five fl. drachms.

Dissolve. As an injection in coryza, and other inflammations of the nasal mucous membrane.

Deschamps.

He directs one nostril to be closed by the finger, and the liquid to be drawn up

into the other, etc.

# Clyster of Opium.

R. Tincture of opium,

half a fl. drachm.

Mucilage of starch, two fl. ounces.

Mix. Brit. Ph.

R. Powdered opium, two grains.

Mucilage of gum Arabic,

Tepid milk, half a fl. ounce. two fl. ounces.

Mix. Ellis.

R. Flaxseed, one ounce.

Boiling water, six ounces.

Infuse for an hour, strain, and add

Extract of opium, two grains. Macer to chil Spielmann. Spielmann.

# Clyster of Laudanum and Valerian.

R. Tincture of opium, five to six drops.
 Infusion of valerian, three ounces.
 Mix. In spasms, in children. Swediaur.

# Suppositories of Opium.

R. Extract of opium, twelve grains.

Oil of theobroma, three hundred and forty-eight grains.

Rub the extract of opium with a little water into a smooth paste, then mix intimately with sixty grains of cacao butter, incorporate with the remainder, and make twelve suppositories.

U. S. Ph.

# Suppositories of Lead and Opium.

R. Acetate of lead, in very
fine powder, thirty-six grains.
Extract of opium, six grains.
Oil of theobroma, three hundred
and twenty grains.

Water, sufficient.

Proceed as above, for making twelve suppositories.

U. S. Ph.

The compound lead suppositories, Brit. Ph., contain three grains acetate of lead and one grain of powdered opium each.

#### Linctus with Opium.

R. Extract of opium, one grain.

"Peruvian bark,
four grains.
Camphor, six grains.
Sugar, one drachm.
White linctus, four ounces.
Mix. In bronchitis when the cough is violent.

Foy.

# Mixture of Opium and Lime Water.

R. Extract of opium, one grain.
Lime water,
Oil of almonds, each,
fl. drachms.

Mix. For the treatment of sore nipples, to be applied on dossils of lint. Sibergundi.

### Water of Opium.

R. Opium, in small pieces, one part.
Water, ten parts.

Macerate, and distil five parts. It is given to children in the dose of one drachm in syrup.

Ph. Germ.

Muriate of Opium.

R. Powdered opium, one ounce. Muriatic acid, one ounce. Distilled water, twenty ounces. Mix, and shake the mixture, frequently, for fourteen days, strain, and filter. Dose, from twenty to forty drops. Said not to Nichol. cause headache.

# Vinegar of Opium. Black Drop.

R. Opium, dried, in powder,

five troyounces. No. 40,

Nutmeg, in powder,

No. 40, one troyounce. eight troyounces. Sugar, Diluted acetic acid, sufficient.

Macerate powders in a pint of the acid for twenty-four hours, put into a glass percolator, return the liquid until it passes through clear, displace altogether twentysix fl. ounces, in this dissolve the sugar, strain, and add sufficient diluted acetic acid to make two pints. U. S. Ph.

Dose, about six minims or ten drops, which are nearly equivalent to one grain

of opium.

R. Opium, two ounces. Nutmegs, grated, three drachms. one drachm. Saffron, Distilled vinegar, one pound.

Boil together for a quarter of an hour, then add an ounce of sugar, and half an ounce of yeast; let this mixture ferment for six weeks, strain, and evaporate to four fl. ounces. (Sp. gr. 1.2.) One ounce is equivalent to half an ounce of opium. Dose. one or two drops. Codex, Hamb. 1845.

Lancaster Black Drop.

R. Opium, half a pound. Verjuice, three pints. Bruised nutmeg, one ounce and a half.

Saffron, half an ounce. Boil to a proper consistence; add two ounces of yeast, and let stand in a warm place for six or eight weeks, and then in the open air till of the consistence of syrup. then decant, filter, and bottle; adding a little sugar to each bottle. Dose, six to ten drops. Armstrong.

#### Houlton's Black Drop.

R. Opium, two ounces and a half. Diluted acetic acid, thirty-two ounces.

Digest for six days with a gentle heat, filter, and evaporate to an extract; macerate in

Rectified spirit, five fl. ounces, Distilled water, thirty-five ounces, for eight days, and filter. About the strength of laudanum.

# Guy's Hospital Black Drop.

R. Powdered opium, eight ounces. Juice of crab apples, two pints. Boil gently for half an hour, decant, and boil residue with one pint more of the juice, for a quarter of an hour; express and strain; mix the two liquors, and add

Bruised nutmeg, one ounce. half an ounce. Saffron, Yeast, half a fl. ounce.

Ferment for some days; macerate for fourteen days; filter, and evaporate by a waterbath to the consistence of thin syrup. Dose, two to ten minims.

# Rousseau's Black Drop.

four ounces. R. Opium, Honey, twelve ounces. Hot water. five pounds. Yeast. two drachms.

Dissolve the opium and honey separately in the hot water, mix, and add the yeast; keep at about 86° F. for a month; express; filter, distil off sixteen ounces, and evaporate residue to ten ounces; add to it four and a half ounces of strong spirit; mix, and filter. Seven drops are equivalent to one, grain of opium. Beasley.

#### Porter's Black Drop.

R. Opium, four ounces. Citric acid, two ounces.

Beat together in a mortar, and add

Boiling distilled water, one pint. Triturate well together, let stand for twenty-four hours, and filter. Dose, from six to twenty-four drops. Redwood.

#### Acetated Tincture of Opium.

R. Powdered opium, two troyounces. Distilled vinegar, twelve fl. ounces. Alcohol, half a pint.

Rub the opium with the vinegar, then add the alcohol, macerate for seven days, express, and filter through paper.

Dose, ten minims or twenty drops, which

are equivalent to a grain of opium.

U. S. Ph.

Mixture with Black Drop.

R. Houlton's black drop, ten drops. half Spirit of nitrous ether, a drachm. Distilled water, Mix. To be taken at once. Foy.

# Sedative Mixture.

R. Opium, two grains. Distilled vinegar, half an ounce. Plantain water, six ounces. Syrup of white poppy, one ounce. Mix, and filter. In spoonful doses, in hæmoptysis with spasms. Pierquin.

# Wine of Opium.

R. Opium, in powder,

No. 50, two troyounces. Cinnamon, in powder, No. 50, Cloves, in powder,

sixty grains. No. 50, each, sufficient. Sherry wine,

Macerate powders with fifteen fl. ounces of wine for seven days, transfer to a conical percolator, and, with sherry wine, displace

Eight minims are equivalent to one grain

of opium.

R. Extract of opium, one ounce. Cinnamon, bruised, Cloves, bruised, each, seventy-five grains.

Sherry wine, twenty fl. ounces. Macerate for seven days, and filter.

Brit. Ph. Twenty minims contain one grain of extract of opium.

R. Extract of opium, two ounces. Cinnamon water, ten ounces. Alcohol, two ounces. White wine, four ounces.

Mix, and macerate for four days, and filter. Brugnatelli.

About twice the strength of the preceding. Dose, ten to fifteen drops.

#### Laudanum of Sydenham.

R. Opium, two ounces. Saffron, one ounce. Bruised cinnamon,

cloves, each, one drachm. Sherry wine, one pint. or three days, till the tincture becomes of a

due consistence, and after straining it off,

Infuse them together in a bath-heat for two

set it by for use. Dose, sixteen or eighteen drops. Rush's Sydenham, p. 155.

# Tincture of Opium and Saffron.

one ounce. R. Powdered opium, sixteen parts. Saffron, six parts. Powdered cloves, cinnamon,

each, one part. one hundred and Sherry wine, fifty-two parts.

Digest for a week, express, and filter. Ten grains represent one grain of opium.

Ph. Germ.

#### Mixture of Opium and Cinnamon Water.

R. Powdered opium, ten grains. one drachm. Sugar, six fl. ounces. Cinnamon water, Mix. A tablespoonful every two hours, in tetanus and colica pictonum.

# Mixture of Opium and Syrup of Poppies.

R. Opium, two to three grains. Syrup of poppies, one ounce. Chamomile water, six ounces. Mix. A spoonful every half hour, in dys-Swediaur. entery.

#### Mixture of Wine of Opium.

R. Wine of opium, ten drops. Cinnamon water, one ounce. Balm water, two ounces. Tincture of castor, twenty drops. half an ounce. Syrup of opium,

Mix. In spoonful doses, in uterine colic. Augustin.

R. Cascarilla, Columbo, each, two drachms. sufficient Boiling water, to obtain seven ounces of strained infusion. Add to this

Wine of opium, Ether, each, twenty drops. To be taken by degrees, in chronic diarrhœa. Brera.

# Tincture of Opium. Laudanum.

R. Opium, dried, in powder, two troyounces No. 50, and a half.

Water, half a pint. Alcohol, each,

427OPIUM.

Macerate opium in the water for three days, add the alcohol, and again macerate for three days; introduce into a percolator, and, with diluted alcohol, displace two U. S. Ph.

Dose, thirteen minims, or twenty-five drops, equivalent to a grain of opium. The tincture of Brit. Ph. is of about the same

strength.

opium.

R. Powdered opium, four parts. Alcohol, sp. gr. .892, Distilled water,

nineteen parts. each. Digest for a week, express, and filter. Ten grains are equivalent to one grain of

Ph. Germ.

# Tincture of Extract of Opium.

R. Extract of opium, one part. Alcohol, of 60 pr. ct., twelve parts.

Dissolve, and filter. Paris Codex.

# Battley's Sedative Drops.

R. Hard extract of opium, three ounces. Boiling distilled

thirty ounces. water,

Dissolve, filter when cold, and add

Rectified spirit, six ounces, and water sufficient to make up two pints. Cooley.

Dose, twenty drops.

# Smith's Concentrated Laudanum.

R. Denarcotized opium, four ounces. Dissolve in alcohol, filter, evaporate to consistence of an extract, redissolve in water, and evaporate the filtered solution to twelve ounces; add

Rectified spirit, twenty-two drachms. Distilled water, sufficient to make up sixteen ounces. Dose, three to five drops. Beasley.

# Compound Tincture of Opium.

R. Extract of liquorice, Opium, each, half an ounce. Carbonate of potassium, one drachm. Water, three pints. Boil down to one pint, filter, and evaporate to twelve ounces; then add

Spirit of pimento, five fl. ounces. Powdered cochineal, half a drachm. Let rest for some time, and filter. Med.-Chirurg. Rev.

# Compound Tincture of Opium and Capsicum.

(Diarrhœa Mixture.)

R. Tineture of opium, each, one capsicum, fl. ounce. Spirit of camphor, Pure chloroform, three fl. drachms. sufficient for five Alcohol,

Mix. Dose, a fluidrachm, in water.

Squibb.

# Ammoniated Tincture of Opium.

R. Opium, in coarse powder, hundred grains.

Saffron, cut small,

Benzoic acid, each, one hundred

and eighty grains. Oil of anise, one fl. drachm.

Strong water of ammo-

four fl. ounces. Rectified spirit, sixteen fl. ounces. Macerate for seven days, express, filter, and add spirit to make twenty fl. ounces.

Brit. Ph.

Also called Scotch paregoric. Eighty minims should contain one grain of opium.

# Camphorated Tincture of Opium. Paregoric.

R. Powdered opium, Benzoic acid, each, one drachm. one fl. drachm. Oil of anise, Clarified honey, two ounces. Camphor, two scruples. Diluted alcohol, two pints.

Macerate for fourteen days, and filter.

U. S. Ph.

Half a fl. ounce contains rather less than a grain of opium. Dose, for an infant, five to twenty drops; for an adult, one to two

This is the compound tincture of camphor of Brit. Ph., and the benzoated tincture of opium of Ph. Germ.

# Bateman's Pectoral Drops.

R. Diluted alcohol, four gallons. Rasped red saunders, two ounces. Digest for twenty-four hours, filter, and add

Powdered opium, ) each, catechu, two ounces. Camphor, Oil of anise, four fl. drachms. Digest for ten days. About as strong as camphorated tincture of opium, or two grains of opium to the fl. ounce. Phil. Coll. Ph.

Godfrey's Cordial.

R. Tincture of opium, one pint and a half.

Sugar-house molasses,

sixteen pints. Alcohol, two pints. Water, twenty-six pints. Carbonate of potassium, ounces and a half.

Oil of sassafras, four fl. drachms. Dissolve the carbonate of potassium in the water; add the molasses; heat over a gentle fire, till they simmer; remove the scum; add the laudanum and oil of sassafras, previously mixed together. Phil. Coll. Ph.

Contains rather more than one grain of

opium to the fl. ounce.

Compound Pills of Soap.

R. Powdered opium, sixty grains. Powdered soap, half a troyounce. Beat with water into a pilular mass. Dose, three to five grains.

U. S. Ph. and Brit. Ph.

Tincture of Opium and Soap.

R. Opium, half an ounce. two ounces. Soap, sixteen ounces. Alcohol. Digest for three days on a water-bath, filter, and dissolve in the liquor,

six drachms. Camphor, Oil of rosemary, one drachm. Principally used in frictions, in pains in the limbs, etc., but also given internally, in doses of thirty to fifty drops, in wine.

Turin Ph.

Dumas.

Succinated Tincture of Opium.

R. Opium, forty grains. Camphor, Amber, each, half a drachm. Alcohol, six ounces. Digest for four days on a water-bath, and filter. As a friction in spasmodic attacks.

Swediaur's Tincture of Opium.

R. Extract of opium, one drachm. Distilled water, four drachms. Alcohol, half a drachm. Dissolve, and filter. Five drops are equivalent to a grain of opium. Swediaur.

# Warner's Tincture of Opium.

R. Opium, Soap, each, six drachms. Nutmeg, one drachm. Camphor, four drachms. Saffron, forty grains. Spirit of ammonia, nine ounces. Digest for ten days, agitating occasionally, then filter. Van Mons.

#### Lettsom's Elixir.

R. Opium, Benzoic acid, beach, two drachms. Saffron, Camphor, four scruples. Oil of anise, one drachm. Ipecacuanha, Balsam of tolu, each. half an ounce. Alcohol, two pounds. Macerate for ten days, and filter. Dose, five to twenty drops, in hooping-cough. Augustin.

#### Opiate Linctus.

R. Tincture of opium, two fl. drachms. Diluted sulphuric two fl. drachms acid, and a half. Molasses, eight fl. ounces. three fl. ounces. Water, Mix. A teaspoonful occasionally, to quiet cough.

Anodyne Draught.

R. Camphor water, nine drachms. Nitrate of potassium, six grains. Comp. spirit of ether, one drachm.

Tincture of opium,

ten to twelve minims. Syrup of poppies, two drachms. Mix. To be taken at bedtime. Copland.

R. Tincture of opium, twelve minims. one fl. ounce. Water,

Syrup of poppies, one drachm. Beasley. Mix.

R. Tincture of opium,

fifteen to twenty-five drops. Syrup of poppies,

two fl. drachms.

Spirit of cinnamon,

one fl. drachm.

Distilled water.

one fl. ounce and a half.

Mix.

Ellis.

#### Mixture of Laudanum and Tartar Emetic.

one fl. drachm. R. Laudanum. Tartar emetic, four grains. Camphor water, eight fl. ounces. Mix. In delirium tremens, and the advanced stages of low fevers. Dose, half a fl. ounce to one fl. ounce. Graves.

# Opium Lozenges.

R. Extract of opium,

seventy-two grains. Tincture of tolu, half a fl. ounce. Sugar, sixteen ounces. Gum Arabic, two ounces. Extract of liquorice, six ounces. Distilled water, sufficient. Mix thoroughly, and make 720 lozenges. Dose, one to six. Brit. Ph.

#### Eclectic Dover's Powder.

R. Powdered opium, half a drachm. camphor, two drachms.

ipecacuanha,

one drachm.

Cream of tartar, one ounce. Mix thoroughly. Dose, ten grains.

Am. Journ. Ph. 1854.

# OPOPONAX.

#### OPOPONAX.

A gum resin obtained from the Opoponax chironium, a tall, parsnip-like plant, a native of the warm countries of Europe and the Levant.

Sex. Syst. Pentand. digyn. Nat. Syst. Apiaceæ.

De Candolle, iv. 170. Griffith, Med. Bot.

It occurs in tears and irregular lumps, or

Pimento water, three drachms. fragments, of a reddish-yellow color. Its odor is strong, peculiar, and unpleasant, and its taste bitter and acrid. It is seldom used in this country, but was formerly much esteemed in a variety of diseases. The dose is from ten to thirty grains.

Tincture of Opoponax.

R. Opoponax, one part. Alcohol, five parts. Macerate for some days, and filter. Béral.

# Compound Tincture of Opoponax.

R. Round birthwort, ) each, Long birthwort, half an ounce. Orris root, Opoponax, Sagapenum, each, two drachms. Guaiacum, four scruples. Cloves, two drachms. Camphor, three drachms. Alcohol, ten ounces.

Macerate for twenty-four hours, and filter. As an application to foul venereal ulcers.

Brera.

# Emulsion of Opoponax.

R. Opoponax, Soap, each, one drachm. Yolk of egg, two drachms. Syrup of wormwood,

one ounce and a half. Fennel water, three fl. ounces. Make an emulsion. A teaspoonful every hour as a vermifuge. Bories.

#### ORIGANUM.

### MARJORAM.

The article so designated in the U.S. Ph. is the herb of the Origanum vulgare, a native of Europe, but extensively naturalized in the United States. By several European pharmacopæias, the sweet mar-joram is likewise recognized; this is the herb of O. majorana.

Sex. Syst. Didynam. gymnos. Nat. Syst. Lamiaceæ.

Linn. Sp. Pl. 834. Griffith, Med. Bot. 511. The dried herb has an aromatic, agreeable odor, and a hot, pungent taste, depending on the presence of a volatile oil. It is somewhat tonic and stimulating, and has been used in the form of infusion as a diaphoretic and emmenagogue. The oil is employed in stimulating liniments.

#### Oil of Origanum.

at will. R. Marjoram, sufficient. Water,

Mix, distil, and separate the oil in the receiver.

Much of the imported oil is obtained from another plant (*Thymus vulgaris*), which is fraudulently substituted for the genuine. Dose, one to three drops. This enters into the composition of the opodeldoc, as formerly officinal in the *U.S. Ph.* 

## Oleo-infusion of Sweet Marjoram.

R. Fresh sweet marjoram, one part.
Olive oil, two parts.
Bruise the herb and digest in the oil, until
the water has evaporated; express and
filter.

Paris Codex.

## ORYZA

## RICE.

The seed or grain of *Oryza sativa*, an annual plant, said to be a native of Ethiopia, but now extensively cultivated in most warm countries.

Sex. Syst. Hexand. digyn. Nat. Syst. Gra-

minaceæ.

Linn. Sp. Pl. 475. Griffith, Med. Bot. 660. This grain as found in commerce is deprived of its cuticle, is white, dry, hard, inodorous, and of a farinaceous taste. It is very nutritive, and, in the form of a decoction, emollient.

#### Rice Water.

R. Rice, well washed, two ounces.
Water, two quarts.
Boil for an hour and a half, then add sugar
and flavoring, as may be required. Ellis.

R. Rice, five drachms. Water, sufficient

to obtain a quart of decoction; add

Liquorice root, three drachms.

Let stand for some time, and strain, adding sugar, etc., at will.

Cottereau.

#### Rice Gruel.

R. Ground rice, one ounce.

Cinnamon, one drachm.

Water, one quart.

Boil for forty minutes, adding the aromatic near the close. Strain, and sweeten.

Ellis.

#### Mucilage of Rice.

R. Rice, one ounce.

Macerate it for three hours in

Tepid water, one quart.

Then boil slowly for an hour, and strain.

A. T. Thomson.

## Rice Jelly.

R. Rice, sufficient.

Macerate in as much water as will cover it, boil slowly, adding water as it evaporates, until the rice is reduced to a pap; sweeten and flavor, and pass through a fine sieve. On cooling, it becomes a moderately-consistent jelly. A good diet in dyspepsia, etc.

## OVUM.

Egg.

## Oil of Eggs.

R. Yolk of eggs, at will.

Heat gently till the moisture is dissipated, introduce into a displacer, and exhaust by ether, distil the product in a water-bath, heat the residue, till the albuminous matter coagulates, then strain. Old Paris Codex.

Was, at one time, much esteemed as an application to hemorrhoids, chaps, excoriations, etc., but it is now seldom employed.

## Emulsion of Eggs.

R. Yolks of eggs, two.
Powdered sugar, one ounce.
Boiling water, fourteen ounces.
Triturate the eggs and sugar in a marble mortar, gradually adding the water.

Béral.

#### Emollient Clyster of Eggs.

R. Yolk of eggs, two.
Decoction of bran, one pound.

Mix. Pierquin.

## Restorative Clyster of Eggs.

R. Yolk of egg, one.
White wine, two fl. ounces.
Beef tea, without salt,

eight fl. ounces.

Mix. Radius.

#### Mixture with Eggs.

R. Yolk of egg, one. Cream, six fl. ounces. Cinnamon barley-water,

six fl. drachms.

Sugar, one ounce.

Mix. To be taken in teaspoonful doses, in the convalescence of children.

Foy.

R. Yolk of egg, one. water, two pints.

Make an emulsion, and add

half a drachm. Common salt, Mix. In mesenteric atrophy of children.

Hufeland.

## Egg and Brandy Mixture.

R. Brandy, Cinnamon water, four fl. ounces. each, Yolks of eggs, two. half an ounce. Sugar, Mix well. Brit. Ph. As a stimulant in the sinking stage of

## Egg and Wine Mixture.

R. Yolks of eggs, two. Oil of cinnamon, twenty drops. Mix, and add Madeira wine, Cinnamon water, each, three fl. ounces. Distilled water, two fl. ounces. Sugar, two drachms.

Mix. Three or four tablespoonfuls for a

dose. In convalescence from low fevers.

## Glyconin.

R. Yolk of egg, four parts. Glycerin, five parts. Mix well. As an application to sore nipples, excoriations, etc. Sichel.

## Liniment of Eggs.

R. Yolk of egg, one. Flaxseed oil, two ounces. Mix well. As an application to burns. Radius.

R. White of egg, one. Flaxseed oil, three ounces. Mix well. As the last. Mynsicht.

## Cerate of Eggs.

R. Yolk of egg, one part. Simple cerate, two parts. Mix well. Foy.

R. Yolk of a hard-boiled egg, one. Yellow wax, half an ounce. Almond oil, one ounce and a half. Melt the wax and oil together, and add the egg, triturating them thoroughly together. As an application to burns. Soubeiran.

## Ρ.

## PANAX.

## GINSENG.

This is the root of P. quinquefolium, an herbaceous plant, indigenous to rich woodlands of this country.

Sex. Syst. Pentand. digynia. Nat. Syst.

Araliaceæ.

The root is three to five inches long, spindle-shaped, usually forked, yellowish-gray externally, white internally, of a faint aromatic odor, and a sweetish mucilaginous taste. The root of *P. Shinseng*, a native of China, has the same properties, and is highly valued there for its supposed medicinal qualities. Both kinds are somewhat demulcent, and perhaps slightly stimulant.

## PANCREATINUM.

#### PANCREATIN.

It is obtained from the pancreas of recently-killed animals, by treating the colorless viscous juice with alcohol and drying Mix.

the precipitate in vacuo. It is employed with the view of stimulating the digestion of fatty compounds, and is usually administered in the form of emulsion, or dissolved in very weak alcohol, or as powder.

## Digestive Solution of Pancreatin.

R. Pancreatin, Carbonate of potassium, ten grains. each, Balm water, twenty drachms. Syrup of orangepeel. five drachms. Dissolve and mix. Dose, one or two tablespoonfuls at mealtime. Vanden Corput.

#### Powder of Pancreatin.

R. Pancreatin, Bicarbonate of sodium, each, one part. Vanilla sugar, ten parts. Vanden Corput.

## Nutritive Injection.

R. Bullock's pancreas, one. Glycerin, eight troyounces. Rub the finely-minced pancreas with the glycerin; mix one-third of this mixture with four to five ounces of finely-minced meat, and inject into the rectum. Said to be readily digested.

Merkel.

## Glycerite of Pancreatin.

R. Fresh pancreas, finely minced, Glycerin, each, one pound.

Digest at 120° for twenty-four hours, drain, wash the residue twice with four ounces of water; filter the washings, evaporate to one-half, and mix with first portion.

Merkel

This makes a perfect and agreeable emulsion with fats. Cod-liver oil mixed with it in the proportion of one part to ten, becomes palatable and easy of digestion.

## PAPAVER.

## POPPY HEADS.

The ripe capsules of Papaver somniferum. These capsules are of a more or less globular form, crowned by a radiated, persistent stigma; of a light-brown color, a papery and brittle texture, inodorous, but of a slightly bitter taste. They are analogous in properties, but in an inferior degree, to opium. They contain numerous small white or blackish seeds, which are not used medicinally, with the capsules. These seeds contain a considerable quantity of a bland fixed oil.

## Decoction of Poppy Heads.

R. Poppy heads, bruised, two ounces. Water, thirty ounces.

Boil for a quarter of an hour and strain; it measures twenty fl. ounces. Brit. Ph.

As a soothing and anodyne fomentation, in painful tumors and inflammations.

## Syrup of Poppies.

R. Poppy capsules, bruised, and deprived of seeds, thirty-six oz. Sugar, four pounds. Boiling water, sufficient. Rectified spirit, sixteen fl. ounces.

Infuse the capsules in four pints of the water for twenty-four hours; then exhaust by displacement, evaporate to three pints (imper. meas.), cool, add the spirit, and, after twelve hours, filter; evaporate to two pints (imper.), and dissolve the sugar. The pro-

duct weighs six pounds and a half, and has the specific gravity 1.320. Brit. Ph.

Dose, one fl. drachm, as a sedative and hypnotic.

R. Poppy heads, sixteen troyounces.
Diluted alcohol, four pints.
Sugar, thirty ounces.

Deprive the heads of their seeds; bruise them thoroughly, macerate them in twice their weight of diluted alcohol for two days, express powerfully, add the remainder of the alcohol, and after twenty-four hours, again express. Evaporate the liquids to one pint, strain, and add the sugar, and dissolve by the aid of a gentle heat.

W. Procter.

R. Poppy heads, cut,
St. John's bread, cut,
each,
Liquorice root, cut,
Boiling water,
three parts.
two parts.
fifty parts.

Digest for two hours, express, evaporate to fifteen parts, filter, and add

Sugar, twenty-five parts.

Dissolve. Dose, a tablespoonful.

Ph. Germ.

## Substitute for Syrup of Poppies.

R. Extract of opium, ten grains.

Water, ninety grains.

Syrup, thirty-three drachms.

Dissolve and mix. Paris Codex.

This and the preceding preparations are known as Diacodion Syrup.

R. Sulphate of morphia, four grains.

Water, one fl. ounce.

Dissolve, and mix with

Syrup, fifteen fl. ounces. Each fl. ounce contains one-quarter of a grain of the sulphate of morphia. Wood.

## Extract of Poppy Heads.

R. Poppy heads,
bruised,
Alcohol,
Boiling water,
sufficient.

Exhaust with the water, evaporate to a pint, cool, add the alcohol, filter after twenty-four hours, and evaporate to the proper consistence. Dose, two to five grains.

Brit. Ph.

## Pectoral Syrup.

R. Dates, two pounds. Jujube, one pound.

Liquorice root,
Mallow root,
Maidenhair,
Poppy heads,
Water,
Boil, strain, and add
Sugar,
half a pound.
each, four ounces.
sixteen pints.

Sugar, eight pounds. Evaporate to the consistence of syrup. Dose, one to two ounces. Gassicourt.

## Sedative Injection.

R. Simple emulsion, five fl. ounces.

Decoction of poppy
heads, one pint.
White of egg, one drachm.

Mix. As an injection in acute gonorrhea.

Gassicourt.

## Sedative Mixture.

R. Flaxseed, two drachms.
Poppy head, one.
Water, sufficient
to obtain eight ounces of infusion; add
Yolk of egg, one.
Mix well. In painful diarrhea.

St. Marie.

# PAREIRA. PAREIRA BRAVA.

Both the U. S. and Brit. Ph. refer this root to Cissampelos pareira, a climbing shrub, with large, cordate, villous leaves, a native of the West Indies and South America. But according to Mr. Daniel Hanbury, the root and stem of this plant do not agree either with the older descriptions, or with the article met with in the shops. The latter is the stem of an unknown plant, while the true pareira brava is the root of Chondodendron tomentosum or Cocculus chondodendron, a native of Brazil.

Sex. Syst. Dicec. monand. Nat. Syst. Meni-

De Cand. Prodr. I. 98. See also Griffith,

Med. Bot. 106, and Amer. Journ. Phar.

1873, October.

The root, which is the officinal portion, is usually in large crooked pieces, of a dark blackish-brown color externally, and light yellowish-brown within; it has at first a sweetish, and somewhat aromatic taste, but leaves a bitterish, unpleasant impression; the odor is very slight. It is tonic and alterative, and acts specifically on the bladder, allaying irritability and diminishing mucous secretion. The dose, in substance, is from thirty grains to a drachm.

## Infusion of Pareira Brava.

R. Pareira brava, bruised, one troyounce.

Boiling water, one pint.

Macerate for two hours, and strain.

U. S. Ph.

Dose, one to two fl. ounces, in irritation and chronic inflammation of urinary passages.

## Decoction of Pareira Brava.

R. Pareira brava,

sliced, one ounce and a half.
Distilled water, twenty ounces.
Boil for fifteen minutes, express, strain, and obtain twenty fl. ounces.
Dose, one to two fl. ounces.

Brit. Ph.

## Extract of Pareira Brava.

R. Pareira brava, in coarse powder, one pound. Water, sufficient.

Digest the powder with a pint of the water for twenty-four hours, introduce into a percolator, and with water displace slowly one gallon, evaporate this to a pilular consistence. Dose, ten to twenty grains.

Brit. Ph.

#### Fluid Extract of Pareira Brava.

R. Pareira brava, in powder, No. 60, sixteen troyounces.
Glycerin, three fl. ounces.
Water, five fl. ounces.
Alcohol, eight fl. ounces.

Mix the liquids, moisten the powder with four fl. ounces of the mixture, pack in a percolator, add remaining liquid, and macerate for four days; then, with diluted alcohol, displace twenty-four fl. ounces, reserving the first fourteen, add to remainder one fl. ounce of glycerin, evaporate to two fl. ounces, and mix with reserved portion.

Brit. Ph. exhausts with boiling water; sixteen fl. ounces of the liquid extract are preserved by three fl. ounces of rectified spirit.

Dose, half to one fl. drachm.

## Tincture of Pareira Brava.

B. Pareira brava, two ounces.
Diluted alcohol, one pint.
Digest for seven days, and filter. Brodie.
Dose, fifty to sixty drops.

## PAULLINIA.

## PAULLINIA (GUARANA)

Is a preparation from the seeds of Paullinia sorbilis, a climbing plant, indigenous to Brazil. The seeds are dried, pounded, mixed with cacao and cassava, and with water formed into a paste, which is dried. This preparation is of a brown color, hard, light, inodorous, and of a somewhat astringent taste. It contains a considerable proportion of coffeina, and is highly esteemed in Brazil, in diseases of the bowels and bladder, and has been used in Europe as a tonic in these, and in chlorosis, etc., with much success.

Sex. Syst. Octand. trigyn. Nat. Syst. Sapin-

Martius, Mat. Med. Bras. 59.

## Lozenges of Paullinia.

R. Alcoholic extract of paullinia,
twenty-one grains.
Vanilla sugar, five hundred grains.
Mucilage of tragacanth, sufficient.
Mix, and form lozenges of ten grains each.
Dose, sixteen to twenty during the day.

Gavrelle.

## Syrup of Paullinia.

R. Alcoholic extract of paullinia, one part. Simple syrup, one hundred parts. Dissolve. Dose, half a fl. ounce. Dorvault.

#### Pills of Paullinia.

R. Paulinia, sufficient.

Make into pills of a grain and a half. Five to ten, as occasion may require.

Gavrelle.

#### Alcoholic Extract of Paullinia.

R. Powdered paullinia, at will.

Alcohol, sufficient.

Introduce into a displacement apparatus, and pass the alcohol through till the powder is exhausted; distil off the spirit, and evaporate to proper consistence. Eight to ten grains during the day.

Dechastelus.

#### Chocolate with Paullinia.

R. Paullinia, one ounce.
Chocolate, sixteen ounces.
Mix. and form a paste. As a restorative, in diseases of debility, chlorosis, etc.

Beasley.

## PEPO.

## PUMPKIN SEED.

They are obtained from Cucurbita pepo, an herbaceous plant, extensively cultivated for the sake of its fruit.

Sex. Syst. Monœc. Monadel. Nat. Syst.

Cucurbitaceæ.

The seeds are white, flat, ovate, and marked with a groove near the margin; they have no odor, but a mucilaginous and oily taste, and are employed as a tænifuge.

Dose, half to one ounce in the form of

emulsion.

## PEPSINUM.

### PEPSIN.

Of well-cleaned fresh hogs' stomachs, the mucous membrane is dissected off, chopped finely, and macerated for several days in water acidulated with muriatic acid; the strained and decanted clear liquid is mixed with a saturated solution of table salt in water, and the separated pepsin after several hours drained on a muslin strainer, and submitted to strong pressure. It may be further purified by redissolving in acidulated water, precipitating by table salt, expressing strongly, drying, and macerating the thin dry sheet of pepsin for a short time in water.

E. Scheffer.

## Saccharated Pepsin.

R. Pepsin, prepared as above, and yet damp,

Sugar of milk, each, sufficient. Triturate the pepsin with sufficient milk sugar, so that ten grains of the air dry powder will dissolve not less than one hundred and twenty grains of coagulated albumen if digested with an excess of the latter, for five or six hours at 100° in water, each fl. ounce of which is acidulated with six drops of muriatic acid. E. Scheffer.

Dose, five to ten grains, or more, in dyspepsia, to be taken immediately before or with a meal, together with lactic or diluted muriatic acid, when there is a deficiency of acid in the stomach.

#### Wine of Pepsin.

R. Mucous membrane of hog's stomach, or of beef rennet, one hundred parts.

Glycerin,
Distilled water, each, fifty parts.
Good white wine, one thousand parts.

Muriatic acid, five parts.

Mix thoroughly the mucus, glycerin, and water, and agitate well with the remaining

liquids; macerate for three days at or below Ph. Germ. 98°, and filter.

## Rennet Wine.-Liquid Rennet.

R. Mucous membrane of three parts. calves' rennet, twenty-six parts. White wine, Chloride of sodium, one part. Macerate for three days, and filter.

Ph. Germ.

## PETROLEUM.

## PETROLEUM.

A liquid bitumen, of a fluid consistence, of a brownish-black or reddish-brown color, having a bituminous odor, and an acrid, strong taste. It is found in various parts of the world, issuing from the earth in the form of springs. Many of these exist in the United States, as in the western portion of Pennsylvania, on the shores of Seneca Lake, on the Kenhawa, etc. These products are light-colored and more liquid than the Barbadoes and other foreign varieties, and are known as Seneca oil.

Petroleum is a stimulating antispasmodic, and sudorific, with some anthelmintic properties. The dose is from half a drachm to

a drachm.

By fractional distillation on a large scale, various hydrocarbons of different boiling points are obtained, which are sold under the name of rhigolen, gasolin, benzin, etc. The lightest of these, having at the same time the lowest boiling point, have been used locally for anæsthetic purposes. Benzin, which is the heavier of these light portions, is largely used in the arts, being a valuable solvent, capable to replace in many cases ether, chloroform, oil of turpentine, etc. The still heavier colorless fraction of petroleum is extensively employed for illuminating purposes.

#### British Oil.

R. Oil of turpentine.

flaxseed, each, eight fl.

ounces. amber. four fl. ounces. juniper, four fl. drachms. Barbadoes petroleum, three

fl. ounces. Seneca oil, one fl. ounce.

Mix. As a rubefacient liniment.

Phil. Coll. Ph.

R. Oil of turpentine, eight fl. ounces. Barbadoes petroleum, fl. ounces. Oil of rosemary, four fl. drachms. Mix. Forty drops, three times a day, in Mix.

## Embrocation of Petroleum.

R. Petroleum, half an ounce. Oil of turpentine, one drachm. Spirit of juniper, four ounces.

Mix. As a friction to the loins, in atony of the urinary passages and dropsy.

half an ounce. R. Petroleum, Spirit of lavender, one ounce. Laudanum, two drachms.

Mix. As a lotion to frozen limbs.

Phæbus.

R. Crude petroleum, Glycerin, each, one ounce.

Mix. In scabies of children. Monti.

R. Petroleum, one drachm and a half. Spirit of ammonia, two ounces.

Mix. As a remedy for chilblains.

Radius.

## Ointment of Petroleum.

R. Petroleum, three drachms. Camphor, one scruple. Simple ointment,

one ounce and a half.

Radius.

## Plaster of Petroleum.

R. Resin. half an ounce. Camphor, one drachm. Opium, half a drachm. Petroleum, sufficient.

Mix. As an application in chronic rheumatism.

## Anthelmintic Mixture of Petroleum.

R. Petroleum, half an ounce. Tincture of assafesix drachms.

Mix. Forty drops, three times a day, in cases of tapeworm. Schwartz.

## Diuretic Mixture of Petroleum.

R. Petroleum, two drachms. Tincture of squill, one drachm. Spirit of juniper, six drachms.

Gray. dropsy.

## PETROSELINUM.

## PARSLEY.

Parsley, or Petroselinum sativum, is a biennial herbaceous plant, with a fusiform root; a native of southern Europe, but generally cultivated in our gardens, for the sake of its leaves, which are used for culinary purposes.

Sex. Syst. Pentand. digyn. Nat. Syst. Api-

aceæ.

Hoffmann, Umb. 1, tom. 1. Griffith, Med.

Bot. 318.

The root, which is the officinal portion, is fusiform, white, fleshy, of a pleasant odor and a somewhat sweetish, aromatic taste, becoming inert when kept for some time in the dry state; it should therefore be used in the recent state, or recently dried. It is diuretic and slightly aperient.

## Infusion of Parsley Root.

B. Parsley root, one ounce.
Boiling water, one pint.
Infuse and strain. A teacupful, with a

drachm of sweet spirit of nitre, every three or four hours.

**Ellis.**

In strangury from blisters; and highly spoken of by Dr. Chapman, in dropsies.

## Oil of Parsley.

R. Parsley seed, one part. Water, four parts.

Distil, and separate the oil.

Carminative, and also said to be very efficacious in gonorrhœa, in doses of three or four drops, three times a day.

## PHLORIDZINUM.

#### PHLORIDZIN.

A bitter principle obtained from the bark of the apple, pear, cherry, and plum-trees, especially from that of the root. It is white, very bitter, and is said to be a powerful febrifuge. It is obtained by boiling the fresh bark of the root for two hours in sufficient water to cover it, decanting the decoction, and renewing the process. The two decoctions are united, permitted to stand for twenty-four hours, when a deposit of phloridzin will take place, and, by evaporation, an additional portion will be obtained. This impure product is to be treated with distilled water and animal charcoal, to purify it.

## Powder of Phloridzin.

R. Phloridzin, ten to fourteen grains.
Sugar, one drachm.
Mix. In the apyrexia of intermittent fever.

De Koninck.

## PHOSPHORUS.

### PHOSPHORUS.

An elementary substance, usually in the form of thin sticks, which are translucent, of a pale-yellowish color, and flexible consistence. It has no perceptible taste, but an alliaceous odor. It is principally made from bone ashes, which consist mainly of phosphate of calcium. It is a highly powerful, diffusible stimulant, and ought never to be given in substance, and its effects should be always closely watched. It has been given in cases of extreme prostration of the vital powers.

## Phosphorated Oil.

R. Phosphorus, one part.
Almond oil, fifty parts.

Fuse the phosphorus in the oil, placed in a water-bath, stirring frequently; then agitate occasionally until cold, decant from the phosphorus, and keep in well-stopped vials in a cool place.

Paris Codex.

Dose, five to ten drops in some muci-

laginous liquid.

R. Phosphorus, well dried, one part. Oil of almonds, eighty parts.

Digest by the aid of warm water and agitation, cool for half an hour, and carefully decant the oil from any undissolved phosphorus. Dose, five to fifteen drops. To be prepared only for immediate use.

Ph. Germ.

Has been advised in gout, chronic rheumatism, etc., and also externally, as a friction.

## Emulsion of Phosphorated Oil.

R. Phosphorated oil,
Powdered gum Arabic,
each, two drachms.
Mint water, three troyounces.
Simple syrup, two troyounces.
Make an emulsion. Dose, a tablespoonful.

Soubeiran.

## Pills of Phosphorus.

R. Phosphorus, one grain and a half.
Almond oil, four drachms.

Dissolve by aid of a water-bath, add sufficient magnesia, and make one hundred pills.

Bouchardat.

R. Phosphorus, one grain and a half.
Almond oil,
Powdered soap,
each,
ninety grains.

soap and sufficient marshmallow, in powder, to make one hundred pills. Tavignot.

Dose, three to five a day. The oil may be advantageously substituted by suet, cacao-butter, oil of mace, or other solid fats.

## Phosphorated Ether.

R. Phosphorus, one part. Ether, fifty parts. Macerate for a month in a bottle covered

with black paper; decant into small bottles similarly prepared. Dose, five to ten drops, in some emollient liquid, every four hours. Paris Codex.

R. Phosphorus, two grains. Oil of peppermint, half a drachm. Add to the solution

Ether, half fl. ounce. Mix well. Two to six drops, every four hours, on sugar. In epilepsy, paralysis, Augustin.

## Tincture of Phosphorus.

R. Phosphorus, one grain. Absolute alcohol, twelve drachms. Dissolve by digestion. Dose, ten to fifteen minims, largely diluted. J. A. Thompson.

## Phosphorated Cerate.

R. Phosphorated ether, five parts. Simple cerate, twenty-four parts. As a friction in obstinate cutaneous affections. Foy.

## Phosphorated Oil of Turpentine.

R. Phosphorus, two grains. Oil of turpentine, three fl. drachms. Mix, and dissolve. Dose, ten to twelve drops, in obstinate intermittents; to be given in a cupful of oatmeal gruel.

Hufeland.

## Phosphorated Liniment.

R. Phosphorus, six grains. Oil of almonds, one ounce. Caustic ammonia, Camphor, each, two grains. Mix. Augustin.

#### Phosphorated Ointment.

R. Phosphorus. one part. Lard. one hundred parts. a grain.

Dissolve the phosphorus in the oil, add the | Fuse in a bottle placed in a water-bath, then agitate until solution has taken place, and afterwards occasionally until cold. In paralytic affections. Paris Codex.

> R. Phosphorus, ten grains. Camphor, two scruples. Lard, one ounce.

> Mix carefully, and make an ointment. Used in palsies, by rubbing in twice daily. Hufeland.

## Phosphorus Paste. (Rat's Bane.)

R. Phosphorus, eight parts. Lukewarm water, ) each, one hun-Rye meal, dred and Melted butter, eighty parts. one hundred and Sugar, twenty parts.

Liquefy the phosphorus in the water; pour into a mortar, and add the meal; when cold, add the butter and sugar. An active poison for rats and mice.

## PHYSOSTIGMA

## CALABAR BEAN.—ORDEAL BEAN.

This is the seed of Physostigma venenosum, of Western Africa.

Sex. Syst. Diadel. decand. Nat. Syst. Fa-

Balfour, in Transactions of the Roy. Soc. Edinb. xxii. 305.

The seeds are nearly an inch in length, flattish kidney shaped, with a hard, brittle, and shining brown testa and marked with a conspicuous furrow along its convex margin. The white kernel is hard, pulverizable, and has a rather bland taste, free from bitterness or acrimony. It acts as an excitant of the secretory system, increasing more especially the action of the alimentary mucous glands, and in large doses destroys the power of the spinal cord in conducting impressions, resulting in muscular paralysis or paralysis of the heart. Applied to the eye it contracts the pupil. The dese of the powder is one grain, cautiously increased to five or six grains.

### Extract of Calabar Bean.

R. Calabar bean, in moderately fine powder, twelve troyounces. Alcohol, sufficient.

Obtain by percolation two pints of tincture, or enough to exhaust the powder, recover most of the alcohol by distillation, and evaporate the residue to the consistence of U. S. Ph. and Brit. Ph. a soft extract.

Dose, one-sixteenth to one-fourth or half

## Tincture of Calabar Bean.

R. Powdered Calabar

bean, one drachm.
Alcohol, one fl. ounce.

Macerate for a week and filter. Dose, twenty minims thrice daily, carefully increased to fifty or sixty minims, in chorea.

Ogle

## Powder of Calabar Bean and Rhubarb.

R. Powdered Calabar bean, "rhubarb,

each, sixty grains.

Mix, and divide into twenty powders. Dose, from three to five powders during twenty-four hours, in hysteria. Fenwick.

## Hypodermic Injection of Calabar Bean.

R. Extract of Calabar

bean, one-third of a grain.

Distilled water, ten minims.

Dissolve, and carefully neutralize the solution with bicarbonate of potassium. In tetanus.

Haining.

## Glycerite of Calabar Bean.

R. Extract of Calabar

bean, one grain.
Glycerin, sixty-five grains.
Dissolve. Dorvault.

Dose, four drops four times a day, in con-

stipation.

#### Paper of Calabar Bean.

White filtering paper is impregnated with the glycerite or with alcoholic solution of extract of Calabar bean, and dried. Each square centimetre should contain two milligrammes of the extract. Dorvault.

## PHYTOLACCA.

## POKE.

Both the berries and the root of the Poke, or *Phytolacca decandra*, are officinal. It is a large, herbaceous plant, with a perennial root, and bearing numerous clusters of darkpurple berries.

Sex. Syst. Decand. decagyn. Nat. Syst.

Phytolaccaceæ.

Linn. Sp. Pl. 631. Griffith, Med. Bot. 535.
The root, as found in the shops, is in transverse slices, of a light-brown color externally; and exhibiting on the cut surfaces numerous concentric rings. The taste is somewhat saccharine, followed by a sensation of acrimony; the odor of the fresh root is somewhat like that of ginseng, but this

disappears on drying. It is emeto-cathartic, with some narcotic properties. It has been used as an alterative, in syphilis, rheumatism, and chronic eruptions. The berries have also been praised in the same complaints. The dose of the powdered root is from one to five grains as an alterative; from ten to thirty as an emetic.

## Ointment of Poke.

R. Powdered root or leaves

of poke, one drachm. Lard, one ounce.

Rub together. As an application in tinea capitis, psora, etc. Wood.

## Tincture of Poke Root.

R. Powdered poke-

root, six troyounces.
Cardamom, two drachms.
Diluted alcohol, two pints.

Macerate for two weeks, express, and filter.

Maryland Coll. Ph.

## Tincture of Poke-Berries.

R. Bruised poke-berries, four ounces.
Diluted alcohol, one pint.

Macerate for fourteen days, and filter.

Dose, a teaspoonful, in chronic rheumatism.

#### PIMENTA.

#### PIMENTO. - ALLSPICE.

This, which is also called Jamaica pepper, is the unripe berries of Eugenia pimenta, a beautiful evergreen tree, which is indigenous to the West Indies and South America.

Sex. Syst. Icosand. monog. Nat. Syst. Myr-

De Candolle, Prod. iii. 285. Griffith, Med. Bot. 300.

The berries, which are the officinal part, are collected before they are ripe, and dried in the sun. In this state they are round, brown, somewhat rough, and a little larger than a pepper-corn. They have an aromatic, agreeable odor, and a powerful, clove-like taste. Pimento is a warm, aromatic stimulant, but is more employed as a condiment than in medicine. The dose, in powder, is from ten to forty grains.

## Bolus of Allspice.

R. Powdered allspice, cinnamon, each, four grains.

" saffron, one grain.
Conserve of roses, sufficient.

Mix, and make two boluses. In chronic diarrhea. Foy.

## Water of Allspice.

R. Allspice, bruised, fourteen ounces. twenty pounds. Water, Brit. Ph. Distil ten pounds. Used as a carminative. Dose, one to two fl. ounces.

## Spirit of Allspice.

R. Oil of pimento, two fl. drachms. Diluted alcohol, one gallon. Dissolve the oil in the alcohol.

U. S. Ph. 1850.

## Tincture of Allspice.

one part. R. Allspice, five parts. Alcohol, Macerate for fifteen days, and filter. Dose, from ten to twelve drops. Swediaur.

## Essence of Allspice.

R. Oil of pimento, one fl. ounce. Rectified spirit, nine fl. ounces. Mix with agitation. Dose, thirty drops, as Dub. Ph. 1826. a carminative.

## PIPER.

## BLACK PEPPER.

This article is the berries of Piper nigrum, a perennial, shrubby vine, from eight to twelve feet high, a native of India, and extensively cultivated in many parts of tropical Asia.

Sex. Syst. Diand. trigyn. Nat. Syst. Piperaceæ.

Linn. Sp. Pl. 40. Griffith, Med. Bot. 564. The fruit, which is the officinal part, is gathered before it is quite ripe, and by the drying of the pulp over the grayish-white seed, becomes wrinkled and black; in this state it is known as black pepper; if permitted to ripen, and deprived of the skin by maceration, and dried, the fruit forms what is called white pepper, which is less active than the black.

Black pepper is a warm, carminative stimulant, but is principally used as a condiment. It has, however, been used in gonorrhœa, etc., and in the treatment of intermittent fevers, and also as an external application, in the form of ointment, to tinea capitis. The dose is from ten to twenty grains.

## Confection of Black Pepper.

R. Powdered black pepper,

two ounces. caraway, three ounces. Clarified honey, fifteen ounces.

Mix thoroughly. Dose, one to two drachms.

A substitute for Ward's paste.

This, which is similar to Ward's paste, so celebrated in the cure of piles, must be used for a length of time, to be of service. Dose, from one to two drachms, two or three times a day.

## Electuary of Black Pepper.

R. Powdered black pepper, Conserve of orange-peel, each, one ounce. Syrup of orange-peel, sufficient. Make an electuary. As a stomachic and carminative. A drachm twice a day. Saunders.

## Resinous Oil of Black Pepper.

R. Black pepper, Grind it, and exhaust by means of alcohol (.835); distil off the alcohol. Treat the resinous residue with solution of potassa, which removes all but the peperina. The alkaline liquid is then to be saturated with diluted muriatic acid, and the fluid oleoresin that precipitates is, after being washed with water, ready for use.

## W. Procter.

## · Oleoresin of Black Pepper.

R. Black pepper, in fine powder, twelve troyounces. Ether, sufficient.

Put the powder in a percolator, press firmly, and pour ether gradually upon it until twenty fl. ounces of tincture pass. Distil off most of the ether, and expose the residue in a shallow vessel till all the ether is evaporated, and the deposition of piperina has ceased. Lastly, separate the piperina by expressing.

#### Dose, one or two drops. U. S. Ph.

## Volatile Oil of Black Pepper.

R. Powdered black pepper, at will. Water, sufficient. Distil, and separate the oil from the product. This has the odor, but not the pungency of the fruit.

## Ointment of Black Pepper.

R. Powdered black pepper, four ounces. Lard, one pound. Mix. As an application in tinea capitis. Dub. Ph. 1826.

## Plaster of Black Pepper

R. Powdered black pepper,
Galbanum, each, three drachms.
Pitch, two ounces.
Oil of laurel berries, sufficient.
Mix. As a stimulating plaster, in rheumatism, etc.

Augustin.

## Cataplasm of Black Pepper.

R. Flour of mustard, half a pound. Powdered black pepper, "ginger,

each, one drachm.
Boiling water, sufficient
to make a soft paste. To be applied to
the pit of the stomach in colic, etc.; or to
the feet, as a revulsive.

Ellis.

## PIPER LONGUM.

## LONG PEPPER.

This is the dried spikes of the Piper longum, or Chavica officinarum, a climbing shrub, with diœcious flowers, a native of some of the East India islands, and cultivated in Sumatra and Java.

Linn. Sp. Pl. 41. Griffith, Med. Bot. 566. The officinal portion is the fruit catkins, dried in the sun. These are aromatic; of a pungent, fiery taste; of a grayish-brown color; cylindrical. This pepper has nearly the same properties as the black, but it is little used in this country.

#### Cataplasm of Long Pepper.

R. Powdered long pepper, ginger,

each,
White of egg,
Mix well into a paste.
As a rubefacient application in pleurisy.

White of egg,
Sufficient.

As a rubefacient Foy.

## PIPERINA.

#### PIPERINA.

A peculiar principle obtained from Piper nigrum. It is white, and crystallizes in four-sided prisms. It was thought to be an alkali, but the experiments of Pelletier show that it is more analogous to the resins. It has been much praised in Italy, as a febrifuge; and is also spoken of with favor by physicians of other countries. It has been supposed that its acrid taste and remedial properties were dependent on an admixture of acrid oil, but Dr. Christison attempts to prove that such is not the case.

R. Alcoholic extract of
black pepper, at will.

Treat it with water containing a hundredth
of caustic potassa; wash the residue in cold

of caustic potassa; wash the residue in cold water; dissolve in alcohol; filter, and permit to evaporate and crystallize. Guibourt. Dose, from two to ten grains.

## Pills of Piperina.

R. Piperina, twenty-four grains.
Crumb of bread, sufficient.
Mix, and make twelve pills. One, every two hours.

Meli.

R. Piperina, twelve grains.
Extract of gentian, sufficient.
Mix, and make twelve pills. One, every hour, during the apyrexia of intermittents.

## Pills of Piperina and Mercury.

R. Blue pill, one grain.
Piperina,
Sulphate of quinia,
each, two grains.
Syrup, sufficient.

Mix, and make a pill. Hartte.

One, three times a day, for a few days. after the paroxysm has been checked by piperina.

## Tincture of Piperina.

R. Piperina, one part.
Alcohol, seven parts.
Dissolve, and filter.

Béral.

## PISCIDIA ERYTHRINA.

## JAMAICA DOGWOOD.

This is a small West Indian tree, with a hard, heavy wood, and a narcotic bark, employed to intoxicate fish.

Sex. Syst. Diadelph. decand. Nat. Syst.

Linn. Sp. Pl. 993. Griffith, Med. Bot. 246. The part used is the bark of the root, which appears to be a stimulating narcotic; causing excitement of the system, copious perspiration, and profound sleep. Applied topically to allay pain.

## Tincture of Jamaica Dogwood.

R. Bruised Jamaica

dogwood, one ounce.
Alcohol, four fl. ounces.
Digest for seven days, and filter. Full dose, as a narcotic, one fl. drachm.

Hamilton.

## PIX BURGUNDICA.

## BURGUNDY PITCH.

This is the prepared resinous exudation of Abies excelsa, a lofty tree, a native of Europe and northern Asia.

Sex. Syst. Monœc. monadelph. Nat. Syst.

Pinaceæ.

De Candolle, Fl. Fr. iii. 375. Griffith, Med. Bot. 606.

It is also obtained from A. picea.

When pure it is hard, brittle, opaque, of a yellowish or brownish-yellow color, and of a weak, turpentine-like taste and odor. The *Thus* of the *Brit. Ph.* is the concrete turpentine of *Pinus palustris* and *P. tæda*. It is in solid, brittle tears, of a bright-yellowish color, and emits an agreeable odor when burned.

Both are used as ingredients in plaster.

## Prepared Thus or Common Frankincense.

R. Frankincense, one pound. Water, sufficient to cover.

Liquefy by heat, strain through a hair sieve, and when cold pour off the water. Used for making plasters. Lond. Ph.

## Pitch Plaster.

R. Burgundy pitch,

twenty-six ounces.
Prepared thus, thirteen ounces.
Resin,

Yellow wax, each, four ounces and a half.

Expressed oil of nutmeg,

one ounce.

Olive oil,

Water, each, two fl. ounces.

Melt the thus, pitch, resin, and wax together, and add the olive oil, oil of nutmegs, and water; mix, and evaporate to a proper consistence.

Brit. Ph.

As a rubefacient plaster in pectoral and rheumatic affections, etc. It often causes a serous discharge, and much irritation.

R. Burgundy pitch,
Wax,
Turpentine,
Melt, and mix.

Six ounces.
half an ounce.
one drachm.

Guy's Hosp.

## Burgundy Pitch Plaster.

R. Burgundy pitch, six pounds.
Yellow wax, half a pound.
Melt, and stir constantly till they thicken.
U.S. Ph.

## Warming Plaster.

R. Burgundy pitch,

forty-eight troyounces. Cerate of Spanish flies,

four troyounces.

Melt together on a water-bath, and stir constantly till they thicken. U.S. Ph.

## Irritating Pitch Plaster.

R. Burgundy pitch, thirty-two parts.
Common turpentine,
Yellow wax, each, twelve parts.

Euphorbium, in very fine powder, three parts.

Melt the first three articles together, add the powder, and mix well.

Ph. Germ.

## Aromatic Plaster.

R. Resin of spruce fir, three ounces. Yellow wax, half an ounce. Powdered cinnamon, six drachms. Oil of pimento,

" lemon, each, two drachms.

Melt the resin and wax together, and strain.

When they begin to thicken, on cooling, mix in the cinnamon, previously rubbed with the oils, and make a plaster.

Dub. Ph. 1826.

A good local stimulant, when applied to the region of the stomach, allaying nausea and vomiting, and relieving gastric uneasiness.

## Compound Pitch Plaster.

R. Burgundy pitch, two parts.
White wax, four parts.
Turpentine,
Balsam of tolu, each, one part.
Mix and melt.

**Béral.**

#### Pitch Cerate.

R. Burgundy pitch,
Common turpentine,
Suet, each,
Yellow wax,
Melt together.

two parts.
one part.
four parts.

Ph. Germ.

## Pills of Burgundy Pitch.

pounds.
A pound.
thicken.
U. S. Ph.

R. Burgundy pitch, five drachms.
Sufficient.
Sufficient.
Six to eight, three times a day, in cutaneous Ulrich.

## PIX CANADENSIS.

## CANADA OR HEMLOCK PITCH.

This is the prepared resinous exudation of the Abies Canadensis, a lofty tree, found in the more northern parts of the United States, in Canada, etc., and also in the mountainous portions of the Middle States.

Sex. Syst. Monœc. monodelph. Nat. Syst.

Pinaceæ.

Mich. N. A. Sylv. iii. 185. Griffith, Med.

Bot. 606.

The resin exudes spontaneously, and hardens on the bark, from which it is separated by boiling in water. It, however, requires a purification, by melting and straining, before it is fit for use. In this state, it is hard, brittle, of a dark yellowish-brown color, which becomes darker by exposure to the air, of a peculiar but faint odor, and a scarcely perceptible taste.

It is a mild rubefacient, much resembling Burgundy pitch in its actions and powers, and is employed for the same purposes.

The volatile oil obtained from the tops by distillation, and called the oil of hemlock, is possessed of emmenagogue properties. It has been used to produce abortion.

## Hemlock Pitch Plaster.

R. Hemlock pitch, seventy-two troyounces.
Yellow wax, six troyounces.
Melt together, strain, and stir while cooling.
U. S. Ph.

## PIX LIQUIDA.

#### TAR.

This is an impure turpentine, obtained by the slow combustion of various species of the pine tribe, and more especially of the pinus palustris. It is made in large quantities in North Carolina, and in various other places in America and Europe.

It is of a brownish-black color, of a tenacious consistence, has a peculiar empyreumatic odor, and a somewhat bitter, resinous,

subacrid taste.:

Its properties are analogous to those of the turpentines. It is used both internally and externally. The dose is from half a drachm to one drachm, several times a day.

#### Tar Pills.

R. Tar, one drachm.
Powdered elecampane, sufficient.
Mix, form a mass, and divide into twenty
pills.

Beasley.

R. Tar, one drachm.
Wheat flour, sufficient.
Mix, form a mass, and divide into twenty pills.

G. B. Wood.

R. Tar, two scruples.

Liquorice powder, one scruple.

Mix, and make sixteen pills. Seymour.

#### Tar Water.

R. Tar, one pint.
Water, four pints.
Mix, and shake frequently for twenty-four hours, decant, and filter.

U. S. Ph.

B. Tar, one part.
Boiling water, ten parts.
Macerate for two days, with frequent agitation, and decant.

Ph. Germ.

R. Tar, one part. Water, thirty parts.

Macerate for a day and reject the water, then macerate with same quantity of water for ten days, and decant, Paris Codex.

It is stimulant and diuretic, and was once much used in a variety of diseases, especially in those of the lungs. The dose is from one to two pints, in divided doses, in the course of the day. It is also used as a lotion in cutaneous diseases.

## Syrup of Tar.

R. Tar water, twenty-one parts. Sugar, forty parts. Dissolve, and strain. Paris Codex.

## Glycerite of Tar.

R. Tar, one troyounce.
Carbonate of magnesium, two
troyounces.
Glycerin, four fl. ounces.
Alcohol, two fl. ounces.
Water, ten fl. ounces.

Bub the tar with the carbonate, then with the mixed liquids, in three portions, expressing each time, then pack the residue into a percolator, and pass first the expressed liquids, afterwards water, until one pint is obtained. U. S. Ph.

Dose, one to four fl. drachms.

#### Wine of Tar, or Tar Beer.

R. Water, three quarts.
Wheat bran, one quart.
Tar, one pint.
Honey, half a pint.
Simmer together for three hours, and when

cool add a pint of brewers' yeast, and let it stand for thirty-six hours.

Then bottle.

Dose, a tablespoonful.

Duhamel.

R. Ground malt, Honey, each, one pound. Tar, half a pint. Yeast. sufficient. Water.

Keep the malt, honey, and three quarts of water, at 150° F. for three hours, and when cool add the yeast. Set aside for thirty-six hours, then decant, and to the clear solution add the tar, stirring constantly. Shake up occasionally for a week, then filter, and bottle for use. W. Procter, Jr.

R. Strong beer, one gallon. sufficient to saturate. Tar. Mix, and allow them to macerate for three days, with occasional agitation. Dose, a tablespoonful. Robinson.

## Tar Ointment.

R. Tar,

Suet, each, twelve troyounces. Melt the suet with a moderate heat, add the tar, strain, and stir till cold. U.S. Ph.

R. Tar, five ounces. Yellow wax, two ounces. Melt the wax, add the tar, and stir till Brit. Ph.

R. Purified tar, one part. Lard, three parts. Paris Codex.

A stimulant application to various cutaneous eruptions, as psoriasis and tinea

## Compound Tar Ointment.

R. Tar ointment, Cerate of subacetate of lead, half a pound. Mix. St. Bart's Hosp.

R. Tar ointment, Sulphur ointment, equal parts. Mix. Guy's Hosp.

## PIX NIGRA.

## BLACK PITCH.

This is the solid black mass that remains after the evaporation of tar. It has a shin-ing fracture. If is gently stimulant and tonic, and has been used internally in some cutaneous diseases, and in piles. The dose is from ten grains to a drachm, in piles. It is also employed externally.

Ointment of Black Pitch.

R. Black pitch, ) each, eleven ounces. Wax, Resin, Olive oil, (imp.) one pint. Melt together, and strain. Lond. Ph. Used for the same purposes as tar oint-

#### Plaster of Black Pitch.

R. Black pitch, Resin, each, Suet, Turpentine, Yellow wax, three parts. Melt together. Niemann.

#### Pills of Black Pitch.

R. Black pitch, one drachm. Powdered gum half a drachm. Arabic, Mix, and divide into twenty pills. Dose, two every night, in piles. Wardleworth.

## PLATINUM. PLATINA.

## PLATINI BICHLORIDUM.

#### BICHLORIDE OF PLATINA.

Made by dissolving platinum in nitromuriatic acid, and evaporating the solution to dryness by a gentle heat. Beasley.

It, as well as a concentrated solution, is of a deep red color. It is very deliquescent and soluble in water. It is poisonous in the dose of fifteen grains, but has been used as an alterative in syphilis, in doses of one-

eighth to one-fourth of a grain.

## Mixture of Bichloride of Platinum.

R. Bichloride of

platinum, two to four grains. Sugar, two drachms. Distilled water. three fl. ounces. Dissolve. Dose, a tablespoonful, three times a day. Hoefer.

#### Pills of Bichloride of Platinum.

R. Bichloride of

platinum, seven and a half grs. Guaiacum, one drachm. Powdered liquorice root, sufficient. Mix, and form twenty pills. One pill three Hoefer. times a day.

## Ointment of Bichloride of Platinum.

R. Bichloride of

platinum, one drachm. Extract of belladonna, two

drachms.

Lard, four ounces.

Rub well together. As an application to indolent ulcers.

Hoefer.

## PLATINI ET SODII CHLORIDUM.

## CHLOROPLATINATE OF SODIUM.

Mix a solution of six parts of chloride of sodium with a solution of seventeen parts of bichloride of platina; evaporate and crystallize. The crystals are of a deep yellow color, soluble in water and alcohol. They are similar in their medical properties to the analogous salt of gold. Dose, one grain.

Beasley.

## Injection of Chloroplatinate of Sodium.

R. Chloroplatinate of sodium, half a drachm. Decoction of

poppies, eight fl. ounces.

Dissolve. Used as an injection in gonorrhœa.

Hoefer.

## PLUMBUM.

#### LEAD.

A soft, bluish-gray, malleable metal, with a perceptible taste, and a peculiar smell when rubbed. It is not officinal in its metallic state, but its preparations are much employed as sedatives and astringents.

## PLUMBI ACETAS.

ACETATE OF LEAD.

#### Powder of Acetate of Lead.

R. Acetate of lead,

Powdered opium, each, six grains.
Sugar, twenty-four grains.
Mix. Three grains, morning and evening, to check night sweats and diarrhea, in phthisis.

Foy.

R. Calomel, one or two grains.
Acetate of lead, half to one grain.
Mix, and divide into four powders. One, every three hours, in cholera infantum of infants.

Ellis.

R. Acetate of lead, two to three grains.
Opium, a quarter of a grain.
Acetate of sodium, three grains.
Sugar of milk, five grains.

Mix. To be taken every hour, in hemorrhages. Phæbus.

## Pills of Acetate of Lead.

R. Acetate of lead,
Powdered mallow,
each,
Simple syrup,
one drachm.
sufficient.

Mix, and make thirty-six pills. Four to five a day, to check sweats in phthisis.

Radius.

R. Acetate of lead, half a drachm.
Calomel, five grains.
Conserve of roses, sufficient.

Mix, and make ten pills; one, every two to four hours, in hematemesis. Ellis.

R. Acetate of lead, thirty grains. Powdered colchicum,

twenty grains.

" opium, three grains.

Mucilage of gum Arabic, sufficient.

Mix thoroughly, and form into ten pills. One to be taken every six hours. Used in active hemorrhages, washed down with a draught of one drachm of distilled vinegar to one fl. ounce of water. Also given in phthisis, after bleeding, one twice a day.

A. T. Thomson.

R. Acetate of lead, one scruple.
Opium, one grain.
Conserve of roses, sufficient.

Mix, and make twelve pills. One every hour at first, then every two hours, in cholera.

Graves.

R. Acetate of lead, twelve grains.
Opium, six grains.
Conserve of roses, sufficient.

Mix, and make six pills. One, to be repeated according to circumstances, in hemoptysis, etc.

Ellis.

R. Acetate of lead,
Powdered mallow,
Extract of seneka,
each,
one drachm.

m of Mix, and make sixty pills. Two to five, Ellis. several times a day, in hemoptysis. Koop.

#### Rubefacient Paste.

R. Acetate of lead, one ounce. Bisulphate of potassium,

Water, three ounces.

Water, sufficient.

Rub into a paste. It acts powerfully on the skin.

Clarus.

## Collyrium of Subacetate of Lead.

R. Solution of subacetate
of lead, twelve drops.
Wine of opium, forty drops.
Rose water, four fl. ounces.

Mix. Ellis.

R. Acetate of lead, one scruple.
Lime water, twelve fl. ounces.
Catechu, three drachms.
Honey of roses, two ounces.
Dissolve and filter. This is much more astringent than the last.

Augustin.

## Solution of Subacetate of Lead. (Goulard's Extract.)

R. Acetate of lead, sixteen troyounces.

Powdered litharge, nine troyounces and a half.

Boiling water, four pints.

Boil together for half an hour, adding distilled water so as to preserve the measure, filter, and keep in close-stopped bottles.

U. S. Ph.

Brit. Ph. directs to boil five ounces of acetate of lead, three and a half of litharge, and twenty of distilled water.

Ph. Germ. directs to triturate three parts of acetate with one of finely powdered litharge, to heat in a porcelain vessel by a water-bath, until the mass becomes white, when it is agitated with ten parts of hot water until cold, then filtered.

The diluted solution, or lead-water, is made by mixing three fl. drachms of the above solution to a pint of distilled water, U. S. Ph.; from half a fl. ounce each of the above solution and alcohol, and thirtynine fl. ounces of distilled water, Brit. Ph.; from one part of above solution and fortynine parts of distilled water, Ph. Germ.

#### Vegeto-Mineral Water of Goulard.

R. Solution of subacetate
of lead, one part.
Alcohol (.921), four parts.
Distilled water, forty-five parts.
Mix. Ph. Germ. and Paris Codex.
Used in fomentations, lotions, and cata-

plasms, and may always be replaced by the diluted solution of the subacetate.

## Acetate of Lead Gargle.

R. Acetate of lead, sixty grains.

Extract of opium, six grains.

Rose water, eight fl. ounces.

Syrup of mulberries, one ounce.

Mix. Pierquin.

## Subacetate of Lead Gargle.

R. Solution of subacetate
of lead, half a fl. drachm.
Barley water, one pint.
Simple syrup, one ounce.
Mix. Radius.

#### Acetate of Lead Mixture.

R. Acetate of lead, half an ounce.
Sulphate of iron, three drachms.
Vinegar,
Alcohol, each, two fl. ounces.
Rose water, six fl. drachms.
Dissolve the acetate in the vinegar with a gentle heat; add the sulphate, and then the alcohol, mixed with the rose water.
Highly praised in the sweats and colliquative diarrhea of phthisis; in gonorrhea and nocturnal emissions.

Gormann.

#### Goulard's Balsam.

R. Oil of turpentine, at will.

Heat, and gradually add

Acetate of lead, sufficient.

Constantly stirring, till no more will dissolve; let rest, and decant while hot.

Used as an application to eroding and painful ulcers.

Van Mons.

## Acetate of Lead Cerate.

R. Acetate of lead, four parts.
Soap, one part and a half.
Mix thoroughly in a heated mortar, and add

White wax, three parts.

Previously melted with
Olive oil, three parts.

Mix well. Van Mons.

## Subacetate of Lead Cerate. (Goulard's Cerate.)

R. Solution of subacetate
of lead, two fl. ounces and a half.
White wax, four troyounces.

Olive oil, eight troyounces. Camphor, half a drachm.

Melt the wax, and mix with seven ounces of the oil; remove from fire, and when it begins to thicken, gradually add solution of subacetate of lead; stir till cool, then add camphor, dissolved in rest of oil, and mix.

U. S. Ph.

The formula of Brit. Ph. is very similar, almond oil being used instead of olive oil.

R. Yellow wax, eight parts. Lard, twenty-nine parts.

Melt together; when nearly cool add

Solution of subacetate of lead, three parts.

Mix thoroughly. Ph. Germ.

R. Simple cerate, three hundred and fifty grains.

Olive oil, fifty grains.

Goulard's extract, one fl. drachm and a half.

Liniment of camphor, twelve grains.

Mix thoroughly. For extemporaneous preparation. U. S. Ph.

## Liniment of Subacetate of Lead.

R. Olive oil, three troyounces.
Solution of subacetate
of lead, two troyounces.
Mix. U. S. Ph.

R. Solution of subacetate of lead,
Laudanum,
Honey of roses,
Conserve of roses,
Mix.

R. Solution of subeach, two fl.
drachms.
drachms.
Guy's Hosp.

## Injection of Acetate of Lead.

R. Acetate of lead,
Diluted acetic acid,
Acetate of morphia,
ten grains.
ten minims.

Tepid water, a quarter grain. four fl. ounces.

Mix. In dysentery. Waring.

#### Subacetate of Lead Injection.

R. Solution of subacetate
of lead, two fl. drachms.
Distilled vinegar, eight fl. ounces.
Rose water, twenty-four fl. ounces.
Mix. In leucorrhœa. Young.

## Injection of Subacetate of Lead and Lime Water.

R. Solution of subacetate
of lead, thirty-four drops.
Lime water, four fl. ounces.
Olive oil, two fl. drachms.
Mix, and shake whenever used. In inflammation of the prostate and urethra. Foy.

## Liniment for Milk Abscess.

R. Olive oil, two ounces.
Lead water, one drachm.
Ether, two drachms.
Laudanum, one drachm.

Mix. A rag moistened with this liniment to be frequently applied to the inflamed part.

Dewees.

B. Acetate of lead, one drachm.
Distilled vinegar, two ounces.
Dissolve, and add

Alcohol, one ounce.
Distilled water, five ounces.
Mix. To be applied as above. Clarke.

## Acetate of Lead Lotion.

R. Diluted solution of subacetate of lead, one fl. ounce. Spirit of camphor, three fl. ounces. Water, one pint.

Mix. As an application to old ulcers.

Ellis.

## Subacetate of Lead Cataplasm.

R. Common cataplasm, four ounces.
Solution of subacetate
of lead, one fl. ounce.
Chloride of ammonium,
half a drachm.

Mix. As an application to indolent tumors. Radius.

#### Suppositories of Lead.

R. Acetate of lead, thirty-six grains. Oil of theobroma, three hundred and twenty-four grains.

Mix the acetate with sixty grains of the oil, add to the remainder previously melted, and make twelve suppositories. U. S. Ph.

#### Pile Ointment.

Burnt cork, half an ounce.

Fresh butter, two ounces.

Young. Triturate well together.

Burnt cork, half an ounce. two ounces.

Bories.

## Acetate of Lead Ointment.

R. Acetate of lead,
Extract of belladonna,
each,
Lard,
one part.
six parts.

Mix. As an application to fissures of the anus. Foy.

R. Acetate of lead, in fine powder, twelve grains. Benzoinated lard, one ounce.

Mix thoroughly. Brit. Ph.

#### Nutritive Ointment.

R. Litharge, five drachms. Vinegar, three drachms. Olive oil (or lard),

thirteen drachms.

Rub well together. Maryland Coll. Ph.

## Subacetate of Lead Ointment.

R. Cerate of subacetate of lead,
Poplar ointment, each, one ounce.
Powdered camphor, two drachms.
Mix. In inflamed acne and other cutaneous affections.

St. Marie.

R. Solution of subacetate of lead,
White wax, each, one drachm.
Olive oil, one ounce.

Mix. As an application in ophthalmia.

Armstrong.

## Plaster of Acetate of Lead.

R. Acetate of lead,
Sulphur,
Resin,
one drachm.
half an ounce.
two ounces.

Melt together. As an application to venereal buboes. Bories.

#### Subacetate of Lead Plaster.

R. Olive oil, fourteen fl. ounces.

Yellow wax, twenty-four ounces.

Melt together, and add

Solution of subacetate
of lead, one fl. ounce.
Camphor, rubbed in a
little oil, half a drachm.

Mix well, and spread on linen or skin. It has been much praised in rheumatic pains and indolent ulcers. Van Mons. Mix.

## PLUMBI CARBONAS.

CARBONATE OF LEAD. (WHITE LEAD.—CERUSE.)

## Camphorated Powder of Carbonate of Lead.

R. Carbonate of lead, ten drachms.
Starch, two drachms.
Sarcocolla,
Gum Arabic,
tragacanth,
Camphor, half a drachm.
Triturate together. As an application to ulcers.

Giannini.

## Ointment of Carbonate of Lead.

R. Carbonate of lead, sixty grains. Simple ointment, four hundred and twenty grains.

Rub the carbonate with the ointment gradually added, and mix thoroughly.

U. S. Ph. and Brit. Ph.
Paris Codex directs one part of the carbonate to five parts of benzoinated lard;
Ph. Germ., one part of carbonate to two
parts of lard.

As an application to excoriated or ulcer-

ated surfaces.

R. Carbonate of lead,
Camphor,
Olibanum,
Rose oil,
Whites of eggs,
Triturate together. Same uses as above.
Harrer.

R. Carbonate of lead,
Litharge,
Armenian bole,
Honey of roses,
Lard,
one ounce.
two drachms.
one ounce.
half an ounce.
sufficient.

Triturate together. As a dressing to phagedenic and cancerous ulcers. Swediaur.

R. Carbonate of lead, one ounce.
Opium, one drachm.
Lard, half an ounce.
Anodyne balsam, sufficient.
Mix. As an application in facial neuralgia.
Fouquier.

## Camphorated Carbonate of Lead Ointment.

R. Ointment of carbonate
of lead, twenty parts.
Camphor, one part.
Mix. Ph. Germ.

## Plaster of Carbonate of Lead.

R. Litharge, ten parts.
Olive oil, twenty-five parts.
Boil until dissolved, then add

Carbonate of lead, eighteen parts.

Boil to form plaster, and mix thoroughly.

Ph. Germ.

R. Carbonate of lead, one pound.
Olive oil, two pints.
Yellow wax, four ounces.
Lead plaster, one pound and a half.
Powdered orris root, nine ounces.

Boil together the oil and carbonate of lead, adding a little water, and constantly stirring, till they are perfectly incorporated, then add the wax and plaster; when these are melted, mix in the orris, and stir well.

U. S. Ph. 1830.

As a substitute for Mahy's plaster, and a good application to inflamed and excoriated surfaces, as bedsores, etc.

## PLUMBI CHLORIDUM.

## CHLORIDE OF LEAD.

R. Acetate of lead, nineteen ounces.
Chloride of sodium, six ounces.
Dissolve the two salts separately, the former
in three pints of boiling, distilled water,

in three pints of boiling, distilled water, the latter in one pint of distilled water; mix the solutions, and wash the precipitate with distilled water.

Lond. Ph. 1836.

## Ointment of Chloride of Lead.

R. Chloride of lead, one drachm. Simple cerate, one ounce.

Mix. As an application in cancerous ulcerations.

Tuson.

## Lotion of Chloride of Lead.

R. Chloride of lead, one drachm.
Water, one pint.
Dissolve. As a wash to cancerous ulcerations, and in painful neuralgic tumors.

Tuson.

#### PLUMBI IODIDUM.

## IODIDE OF LEAD.

R. Iodide of potassium,
Nitrate of lead,
each, four troyounces.
Distilled water, sufficient.
Dissolve the nitrate in a pint and a half,

and the iodide in half a pint of the water, mix, wash the precipitate well, and dry. U. S. Ph. and Brit. Ph.

## Pills of Iodide of Lead.

R. Iodide of lead, three or four grains.
Conserve of roses, one scruple.
Mix, and form twelve pills. One, night and morning, gradually increased, in scrofulous affections.

Foy.

## Powder of Iodide of Lead.

R. Iodide of lead,
Powdered foxglove,
each,
Alcoholic extract of
stramonium,
Sugar,
Mix, and divide into twenty-four powders.
One four times a day.

Rix grains.
two grains.
one drachm.
Gassicourt.

## Plaster of Iodide of Lead.

R. Soap plaster,
Resin plaster, each, four ounces.
Iodide of lead, one ounce.
Melt the plasters together, add the finely
powdered iodide, and mix intimately.

Brit. Ph.

## Ointment of Iodide of Lead.

R. Iodide of lead, sixty grains. Simple ointment, four hundred and twenty grains.

Mix thoroughly. As an application to indolent and scrofulous swellings.

U. S. Ph. and Brit. Ph.
Paris Codex directs the ingredients in
the proportion 1: 9.

## PLUMBI NITRAS.

NITRATE OF LEAD.

#### Solution of Nitrate of Lead.

R. Nitrate of lead, one troyounce. Water, eight fl. ounces. Dissolve. This is Ledoyen's disinfecting fluid; diluted with water, it furnishes an astringent lotion.

## Glycerite of Nitrate of Lead.

R. Nitrate of lead, ten grains.
Water, two fl. drachms.
Glycerin, six fl. drachms.
Dissolve, and mix. In sore and fissured
nipples.
J. G. Wilson.

## PLUMBI OXIDUM.

LITHARGE.

## Lead Plaster.-Diachylon.

R. Litharge, in fine powder,

thirty troyounces.
Olive oil, fifty-six troyounces.
Water, sufficient.
the litharge with half the oil, add the

Rub the litharge with half the oil, add the remainder and half a pint of water, boil together till a plaster is formed, adding from time to time a little boiling water.

U. S. Ph. Brit. Ph. makes lead plaster by boiling four pounds of litharge, one gallon (imp. meas.) of olive oil, and seventy ounces of water; Ph. Germ. by boiling equal weights of litharge, olive oil, and lard with a little water.

## Soft Lead Plaster.

R. Lead plaster, three parts.
Lard, two parts.
Suet,

Yellow wax, each, one part.

Melt together, and strain. This is a lead Ph. Germ.

#### Lead Cerate.

R. Lead plaster, six parts.
White wax, half a part.
Melt, mix, and add

Olive oil, two parts and a half.

Van Mons.

#### Lead Ointment.

B. Olive oil,

Lard,
Butter,
Mutton fat,
Yellow wax,
Litharge,

ten parts.

ten parts.

Heat the oil, fats, and wax together, till they emit fumes; gradually add the litharge; stir constantly, till the mixture assumes a dark-brown color, and add

Pitch, one part. Strain. Paris Codex.

This preparation is much used in France, under the name of *Onguent de la Mere*, as a maturant to buboes, abscesses, etc.

#### Compound Lead Ointment.

R. Lead plaster, three pounds. Olive oil, eighteen fl. ounces. Melt together, and add

Prepared chalk, six ounces,
Diluted acetic acid, six fl. ounces,
and stir till cold.

Lond. Ph.

R. Lead plaster,

Linseed oil, each,
Melt together, and stir.

ointment.)

one part.

(Hebra's lead
Ph. Germ.

## Diapalma Plaster.

R. Lead plaster, eight pounds.
White wax, eight ounces.
Melt by a gentle heat, and add

Sulphate of zinc, four ounces, dissolved in a little water; continue the heat, constantly stirring, till all moisture is evaporated.

Paris Codex.

## Gaulthier's Plaster.

R. Diapalma plaster, twelve parts.
Olive oil,
White wax, each,
Turpentine, one part.
two parts.

Melt the first three articles together with

Melt the first three articles together, with a gentle heat, and add the turpentine.

Guibourt.

## Baynton's Adhesive Paster.

R. Lead plaster, one pound. Resin, six drachms.

Melt together, and spread on muslin.

Beasley.

## Lead Cataplasm.

R. Flaxseed meal,
Arrowroot, each, two ounces.
Water, eleven fl. ounces.
Lead ointment, one ounce.

Mix, and heat to a proper consistence. As a maturating application. Béral.

#### Banyer's Ointment.

R. Litharge,
Burnt alum,
Calomel, each,
Lard,
Venice turpentine,
wo ounces.
one ounce
and a half.
two pounds.

three pounds. Mix. As an application in porrigo.

Cazenave & Schedel.

## PLUMBI OXIDUM RUBRUM.

RED LEAD.

## Red Lead Plaster.

R. Yellow wax,

Suet, each, one hundred parts.
Olive oil, forty parts.

Melt, and when nearly cool add the following, previously triturated together:-

Red lead, in fine powder,

one hundred parts.

Camphor, three parts.
Olive oil, sixty parts.

Mix and pour into paper moulds.

Ph. Germ.

## Black Plaster.

R. Red lead, two parts.
Olive oil, four parts.

Mix, and heat till it assumes a dark-brown color, and add

Yellow wax, one part.

Melt, and mix. Ph. Germ.

## Nuremberg (Universal) Plaster.

R. Black plaster, one hundred parts.

Camphor, one part.

Melt the plaster add the camphor previ-

Melt the plaster, add the camphor previously dissolved in a little olive oil, and pour into paper moulds to harden.

Ph. Germ.

## PLUMBI SACCHARAS.

SACCHARATE OF LEAD.

R. Mix one part of sugar with two parts of nitric acid, diluted with ten of water, and apply heat as long as any reaction takes place; neutralize with chalk, filter, and add to the filtered solution acetate of lead as long as any precipitate is formed; wash this, and dry it.

Beasley.

## Nitro-Saccharate of Lead.

R. Saccharate of lead, at will.

Dissolve in nitric acid, diluted with nineteen parts of water, filter, evaporate, and
set aside to crystallize.

Hoskins.

## Solution of Nitro-Saccharate of Lead.

R. Nitro-saccharate of lead, five grs. Saccharic acid, twenty-five drops. Water, five ounces.

Dissolve. Proposed as a solvent for phosphatic calculi. Hoskins.

## PLUMBI TANNAS.

TANNATE OF LEAD.

R. Strong infusion of galls, at will. Solution of acetate of lead,

sufficient.

Add the solution of the acetate, drop by drop, till it no longer causes a precipitate; wash this, and dry it.

Fantonetti.

## Liniment of Tannate of Lead.

R. Decoction of oak bark, forty parts. Solution of acetate of lead,

sufficient.

Add the solution of lead to the decoction by degrees, till it causes no precipitate; filter, and when the moist precipitate weighs twelve parts, add

Alcohol, one part.

Recommended in bed-sores. To be made extemporaneously. Ph. Germ.

#### Ointment of Tannate of Lead.

R. Recent tannate of lead,

Lard, thirty parts.

Mix, As an application to bed-sores.

Tott.

R. Oak bark, cut, sixteen parts. Distilled water, eighty parts.

Digest for two hours, strain, and add Solution of subacetate of lead,

eight parts.

Collect the precipitate, press lightly, to reduce its weight to eight parts; then mix well with

Glycerin ointment (plasma),

five parts.

As an application to excoriations.

Ph. Germ.

## PODOPHYLLUM.

## MAY APPLE.

rith nineorate, and Hoskins.

This is the rhizome of the Podophyllum peltatum, a native, herbaceous plant, growing in damp situations, having two large peltate, palmate leaves. Sex. Syst. Polyand. monog. Nat. Syst. Berberidaceæ.

Linn. Sp. Pl. 722. Griffith, Med. Bot. 115.
The dried root is about as thick as a quill, of a blackish-brown color externally, and somewhat corrugated; within, it is of a dirty white; it has a faint, but unpleasant odor, and a bitterish, somewhat sweetish taste. It is a purgative of the same character as jalap, and may be given in the same combinations. Dose, ten grains to a scruple.

## Extract of May Apple.

R. May-apple root, in powder,
No. 50, twelve troyounces.
Alcohol, two pints.
Diluted alcohol, sufficient.

Obtain by displacement, using first the alcohol, and afterwards diluted alcohol, four pints of tincture, keeping the first two pints separate. Distil and evaporate the two portions separately until they have the consistence of thin honey; then mix them and evaporate to the proper consistence.

U. S. Ph.

Dose, five to ten grains.

## Resin of May Apple. (Podophyllin.)

R. May-apple root, in powder,
No. 60, sixteen troyounces.
Muriatic acid, two fl. drachms.

Alcohol, Water, each, sufficient.

Displace the powder with the alcohol until twenty-four fl. ounces of tincture have been obtained, or until the percolate ceases to produce turbidity when dropped into water. Distil until reduced to six fl. ounces, add this, with constant stirring, to seven pints of water containing the acid, and set aside to settle. Decant the clear liquid, wash the precipitate twice with water, collect it, and dry.

U. S. Ph.

Dose, one-quarter to one grain.

## Pills of Podophyllin and May Apple.

R. Podophyllin, five grains. Extract of May apple, half a drachm.

Mix, and divide into ten pills. Dose, one or two pills. Thomas.

## Pills of Podophyllin and Iron.

R. Podophyllin,
White turpentine,
each,
Carbonate of iron,
Mix well, and divide into thirty pills.
Ecl. Med. Jour.

And maintain erapproaching to or bottle is to be with a copper naphtha and su to be gradually temperature is in will distil over.

## Pills of Podophyllin and Belladonna.

R. Resin of podophyllum, two grains.
Extract of belladonna,
Powdered belladonna root,
each, one grain.
Mix, and make six pills. One at bedtime.
Trousseau.

## Compound Pills of Podophyllin.

R. Podophyllin,
Scammony,
Gamboge, in powder,
Rub together for half an hour, and add
Castile soap,
half a drachm.
Beat into a mass, and divide into one hun-

Ecl. Med. Jour.

dred and twenty pills.

## POLYGALA RUBELLA.

## BITTER POLYGALA.

Besides the root of *Polygala senega*, several species have been used in medicine, in Europe *P. amara* and *P. vulgaris*, and in this country *P. rubella*. Of these species the entire plants are usually collected. They have a bitter, somewhat sweetish and slightly acrid taste, and have been employed as tonics, and in larger doses as diaphoretics, mainly in the form of infusion.

## POTASSIUM.

## POTASSIUM

Is a soft, silver-white metal, readily oxidizable by the action of the air; when thrown on water, it takes fire and burns with a rose-colored flame, combining with oxygen, and forming potassa, which is dissolved in the water. It must be kept in liquids into whose composition no oxygen enters, as naphtha, etc. It is not used in medicine, but its numerous compounds are highly important.

R. Fused carbonate of potassium, one pound. Iron filings, three quarters of a pound.

Powdered charcoal, one pound.

Mix, and introduce into a gun-barrel or iron bottle, placed in a furnace so made that the flame of a very strong fire may surround it, and maintain every part at a uniform heat approaching to whiteness; the gun-barrel or bottle is to be connected by an iron tube with a copper receiver partly filled with naphtha and surrounded by ice; the heat is to be gradually raised until the requisite temperature is reached, when the potassium will distil over.

Curaudau.

## POTASSA.

## CAUSTIC POTASSA.

R. Solution of potassa, one gallon. Evaporate quickly, in a clean iron vessel, over the fire, till ebullition ceases and the potassa melts. Pour into moulds, and keep in well-stopped bottles.

U. S. Ph.

A powerful escharotic, used to form issues

and in opening abscesses.

## Solution of Caustic Potassa.

R. Caustic potassa, one drachm and a half.

Distilled water, two fl. ounces.

Dissolve. As a rubefacient in tetanus, to be applied to the spine. Jos. Hartshorne.

#### Potassa with Lime.

R. Potassa,

Lime, each, one ounce.

Rub together into a powder, and keep in a well-stopped bottle. U. S. Ph.

Used as the above, but is slower in producing an effect. It is to be made into a paste with a little alcohol.

## Solution of Potassa.

(Sp. gr. 1.065.)

R. Bicarbonate of

potassium, fifteen troyounces.
Lime, nine troyounces.
Distilled water, sufficient.

Dissolve the bicarbonate in half a gallon of the water, and heat until effervescence ceases. Mix the lime with four pints of the water, add boiling hot to the hot solution of the carbonate, boil the mixture for ten minutes, transfer to a muslin strainer, drain, and wash precipitate with distilled water to make the filtrate measure seven pints; and keep in well-stopped bottles of green glass.

U.S. Ph.

R. Caustic potassa, one troyounce. Distilled water, one pint.

Dissolve. This solution very nearly represents the above. U. S. Ph.

Dose, ten to fifteen minims.

Brit. Ph. has a solution of 1.058 sp. gr. containing twenty-seven grains of caustic potassa in the fl. ounce. The solution of Ph. Germ. contains one-third of its weight of caustic potassa, and has the sp. gr. 1.332.

## Lithontriptic Solution of Caustic Potassa.

R. Calcined carbonate of potassium, half a pound.

Burnt oyster shells, one pound and a half.
Boiling water, eight pints and a half.

Mix, and let rest for twenty-four hours, and then filter. One fl. drachm three times a day, in flaxseed tea, adding fifteen grains of magnesia to each dose. Saunders.

## Saviard's Stimulant Lotion.

R. Caustic potassa, two drachms. Camphor, two scruples. Sugar, two ounces. Water, two pints.

Mix. As an application to indolent ulcers.

## Collyrium of Caustic Potassa.

R. Caustic potassa, one grain.
Distilled water, one ounce.

Dissolve. A drop or two to be introduced into the eye, to remove specks on the cornea.

Gimbernat.

R. Caustic potassa, one grain. Extract of opium, four grains. Distilled water, four fl. ounces.

Dissolve, and filter. In chronic ophthalmia. Hamb. Ph.

## Mixture of Caustic Potassa.

R. Tincture of caustic

potassa, half an ounce.

Volatile tincture of
guaiacum, two drachms.
Laudanum, half a drachm.

Mix. Twenty drops, three times a day, in gout. Græfe.

## Injection of Caustic Potassa.

R. Caustic potassa, half a grain.
Chamomile water, one ounce and a half.
Laudanum, five drops.

Mix. As an injection into the ear, in

Mix. As an injection into the ear, in deafness. Rust.

R. Caustic potassa, two grains. Distilled water, one ounce.

of half a pound. Dissolve. As an injection at the commencement of gonorrhea. Girtanner.

## POTASSA CHLORINATA. Conserve with Acetate of Potassium.

CHLORINATED POTASSA.

## Solution of Chlorinated Potassa.

R. Carbonate of potassium, one part. ten parts. Water,

Dissolve, and pass a current of chlorine gas through the solution, till it is saturated, and preserve in well-stopped bottles. This is known as Eau de Javelle, and is princicipally used for bleaching, but may be employed as a disinfectant, like Labarraque's Guibourt. liquid.

## POTASII ACETAS.

ACETATE OF POTASSIUM.

R Acetic acid, one pint. Bicarbonate of

> sufficient potassium,

to saturate. To be added gradually; filter; evaporate cautiously to dryness, by means of a sand-bath; keep in closely-stopped U. S. Ph. bottles.

A diuretic, in doses of a scruple to a drachm; as a laxative, in doses of two or

three drachms.

## Scillitic Acetate of Potassium.

R. Carbonate of

half an ounce. potassium, Vinegar of squill, twelve fl. ounces. Evaporate to the consistence of honey, and

Alcohol (.842), six fl. ounces. Decant, after digesting for a few days. Dose, forty to sixty drops, in some demulcent fluid, in dropsy and asthma. Keup.

## Bolus of Acetate of Potassium.

R. Acetate of potassium, one scruple. Conserve of pot

marigold, sufficient.

Mix. To be taken in the morning, for some days, to retard the secretion of milk. St. Marie.

## Compound Pills of Acetate of Potassium.

R. Acetate of potassium, Ammoniac, each. Pills of aloes and one part. myrrh, Soap, two parts. Simple syrup, sufficient. Mix, and make pills of five grains.

Van Mons.

R. Acetate of potassium,

half an ounce. Sulphate of sodium, one drachm. Juice of scurvy grass,)

each, two fumitory, ounces. dandelion,

Sugar, sufficient. Mix, and form conserve. A teaspoonful, two or three times a day, in obstructions of the bowels.

R. Acetate of potassium, Powdered burnt sponge,

two drachms. Calomel, twelve grains.

Sulphuret of antimony,

one drachm and a half. sixteen grains. Jalap, Sulphur, one drachm. Simple syrup, sufficient.

Mix. Dose, twelve to twenty-four grains, twice a day, in scrofula. Baumes.

## Liquid Acetate of Potassium.

R. Acetic acid, one hundred parts. Bicarbonate of potassium,

sufficient.

Neutralize the acid and add enough distilled water to make the whole weight one hundred and forty-two parts. Its sp. gr. is 1.176, and three parts of it correspond to one part of dry acetate. Ph. Germ.

R. Acetate of potassium, one part. Distilled water, two parts. Amster. Ph. Dissolve.

Dose, forty to eighty drops, in an appropriate vehicle, as a diuretic.

## Mixture of Liquid Acetate of Potassium.

R. Liquid acetate of potassium,

two ounces.

Extract of Peruvian bark,

two drachms.

cascarilla, one drachm.

Tincture of aloes

one ounce. and myrrh,

Mix. In intermittent fevers, complicated with obstruction and dropsy; in doses of thirty drops, every two hours during the apyrexia. Bories.

R. Liquid acetate of four ounces. potassium, Extract of centaury, two drachms.

Sulphuric ether, twenty drops.
Syrup of kermes, two ounces.

Mix. In dropsy and obstructions. In doses of thirty drops.

Saunders.

## Tincture of Acetate of Potassium.

R. Acetate of potassium, two ounces.

Alcohol, four fl. ounces.

Digest for some days, and filter. Dose, thirty to sixty drops.

Bruns. Ph.

## Mixture of Acetate of Potassium.

R. Acetate of potassium, each,
Extract of dandelion, half an ounce.
Fennel water, six ounces.
Syrup of marsh mallow, one ounce.

Mix. Two teaspoonfuls, every four hours, in jaundice. Quarin.

R. Carbonate of potassium,

fifteen grains. sufficient

to dissolve; add to the solution

Distilled vinegar,

Water, half an ounce.
Mint water, one ounce.

Pimento water, Vinegar of squill,

each, one drachm.
Simple syrup, three drachms.
Mix. Dose, half a drachm to a drachm, every six hours, in dropsy.

Milman.

R. Arnica root, one drachm. Boiling water, sufficient

to obtain four ounces of infusion; add

Carbonate of potassium, saturated with vinegar of squill,

half a drachm.

Syrup of orange flowers,

half an ounce.

Mix. A spoonful every two hours in dropsy. Wendt.

R. Acetate of potassium,
Oxymel of squill,
each, one drachm.
Linden water, four drachms.
Wine of opium, fifteen drops.
Syrup of marsh mallow,

one ounce.

Mix. In spoonful doses, as a diuretic and sedative. Pierquin.

# twenty drops. POTASSII ARSENITIS two ounces. LIQUOR.

ARSENICAL, OR FOWLER'S SOLUTION.

R. Arsenious acid, in small fragments,
Bicarbonate of potassium, each, sixty-four

Distilled water, sufficient.
Compound spirit of lavender,

half a fl. ounce.

Boil the arsenious acid and bicarbonate of potassium with half a fl. ounce of the water, till the acid is entirely dissolved, add twelve fl. ounces of water, then the spirit of lavender, and afterwards, sufficient distilled water to make it measure a pint. U.S. Ph.

Fowler's solution of Paris Codex contains, in one hundred parts, that of Ph. Germ. in ninety parts, of the liquid, one part of arse-

nious acid.

Used in the same cases as arsenious acid, especially in intermittent fever. Each fl. drachm contains half a grain of arsenious acid. Dose, about ten drops, two or three times a day.

## Mixture of Fowler's Solution.

R. Fowler's solution, sixty drops. Laudanum, thirty drops. Compound spirit of lavender,

one fl. drachm.

Cinnamon water, four fl. ounces.

Mix. Dose, a tablespoonful for an adult, a teaspoonful for a child, every two or three hours. When given in this form, Fowler's solution is less apt to disagree with the stomach than if administered in the undiluted state.

Ellis.

## Mixture of Iodine and Arsenic.

R. Lugol's solution, two fl. drachms. Fowler's solution, one fl. ounce.

Mix. Dose, five drops, three times daily.

Ellis.

## POTASSII ARSENIAS.

ARSENIATE OF POTASSIUM.

R. White arsenic,

Nitre, each, one ounce.

Pulverize separately, mix, and introduce into an earthenware retort; heat to redness, as long as nitrous fumes are evolved; let cool, dissolve the residuum in four pints of boiling distilled water, evaporate, and crystallize.

Dub. Ph. 1806.

Dose, one-sixteenth to one-eighth of a

grain.

## Mixture of Arseniate of Potassium.

R. Arseniate of potassium,

one-fifth of a grain. three ounces. Mint water, half an ounce. Simple syrup, Mix. In spoonful doses, in the apyrexia of intermittents.

## POTASSII BICARBONAS.

BICARBONATE OF POTASSIUM.

R. Carbonate of potassium, forty-eight troyounces.

Distilled water, ten pints. Dissolve the carbonate in the water, and

pass carbonic acid through the solution till it is fully saturated. Then filter and evaporate, that crystals may form, taking care that the heat does not exceed 160° F. Pour off the supernatant liquor, and dry the crystals on bibulous paper. Carbonic acid is obtained from marble, by the addition of lute sulphuric acid. U. S. Ph. Properties are the same as those of the dilute sulphuric acid.

carbonate, but it generally agrees better with the stomach. Dose, twenty grains to

half a drachm.

## Effervescing Powders of Bicarbonate of Potassium.

R. Bicarbonate of potassium, six hundred and forty grains. Divide into sixteen powders.

R. Tartaric acid, one ounce.

Divide into sixteen powders.

Keep the acid and alkaline powders in papers of different colors. Ed. Ph.Usually made with the bicarbonate of

## Effervescing Solution of Bicarbonate of Potassium.

R. Bicarbonate of potassium,

thirty grains. Distilled water, one pint (imp.). Dissolve, and pass washed carbonic acid into the solution to give a pressure of seven atmospheres; keep in a well-stopped vessel. Brit. Ph.

R. Bicarbonate of potassium, twenty grains. Mineral water (of the shops), half a pint.

Mix, and drink in a state of effervescence. Pereira.

## Mixture of Bicarbonate of Potassium.

R. Bicarbonate of potassium,

ten to fifteen grains. Seltzer water, six fl. ounces. Dissolve. To be taken three or four times a day, as an antilithic.

R. Bicarbonate of potassium,

one drachm.

six fl. ounces. Mint water, Dissolve. A spoonful every hour-has been recommended in cholera.

## POTASSII BISULPHAS.

BISULPHATE OF POTASSIUM.

R. Salt remaining after distillation of nitric two pounds. acid, Sulphuric acid, one pound. Boiling water, (imp.) six pints.

Dissolve the salt in the water, add the acid, and mix. Boil down the solution, and set aside, that crystals may form.

Lond. Ph. 1836. Aperient and tonic, in doses of one to two

drachms, properly diluted.

#### Effervescing Draught of Bisulphate of Potassium.

R. Bisulphate of potassa, Carbonate of soda, each, one drachm.

Dissolve separately, in two fl. ounces of water, each; mix, and take whilst effervescing.

## Disinfecting Powder.

R. Acid sulphate of potassium,

four hundred and ten parts. Subacetate of lead, seventy parts. thirty parts. Manganese,

Reduce these, separately, to fine powder, and when wanted, mix in a proper vessel.

Keist.

## POTASSII BITARTRAS.

BITARTRATE OF POTASSIUM. CREAM OF TARTAR.

This is cathartic, diuretic, and cooling. The dose is from one to two drachms, as an aperient; and from half an ounce to one ounce, as a hydragogue purgative.

Dentifrice of Bitartrate of Potassium.

R. Bitartrate of potassium, five troyounces.

Burned alum, two drachms and a half.

Cochineal, powdered, two drachms.

Otto of roses, six drops.

Mix. Charlard.

R. Bitartrate of potassium,

Powdered shell-lac, eight parts.
" cuttlefish bone,

" orris root,

each, eight parts.

" cloves, each,

" myrrh, two parts.

Triturate well together. Guibourt.

R. Bitartrate of potassium,

Rhatany, equal parts.
Orris root, sufficient
to give an agreeable odor.
together.

Triturate well
Ferrara Ph.

## Powder of Bitartrate of Potassium.

R. Bitartrate of potassium,

three ounces.

Nitrate of potassium,

Sugar, four ounces.

Mix. Dose, one to two drachms, in whey, as a laxative.

St. Marie.

R. Bitartrate of potassium,

Powdered squill, two grains.

"digitalis, one grain.
"ginger, five grains.

Mix. Make a powder, to be taken every eight hours. In ascites and anasarca.

A. T. Thomson.

R. Bitartrate of potassium,

Powdered squill, two grains.

"ginger, four grains.

Mix. Make a powder, to be taken every eight hours. Useful in ascites.

A. T. Thomson.

R. Bitartrate of potassium,

Powdered jalap, one drachm.

Mix, and divide into six powders. Give one powder every three hours, in dropsical cases requiring purging. Chapman.

Electuary of Bitartrate of Potassium.

R. Bitartrate of potassium,

one ounce.

Powdered ginger, Conserve of roses,

each, one drachm. Syrup of orange-peel, sufficient. Mix. To be taken in spoonful doses, as a hydragogue purgative. Monro.

## Oxymel of Bitartrate of Potassium.

R. Bitartrate of potassium, one part.
Clarified honey, two parts.
Mix. As a purgative in bilious fever and dropsies.

Swediaur.

## Solution of Bitartrate of Potassium.

R. Bitartrate of potassium,

Water, two pints.

Dissolve. To be taken freely during the day, as a diuretic.

Ellis.

## Compound Solution of Bitartrate of Potassium.

R. Bitartrate of potassium,

Manna, two drachms.

Water, eight ounces.

Lemon juice, half an ounce.

Mix, and clarify with the white of an egg; infuse a small quantity of orange-peel in the fluid, and strain on cooling. A pleasant laxative.

Taddei.

## Mixture of Bitartrate of Potassium.

R. Bitartrate of potassium,

two scruples.

Antimonial wine, Vinegar of squill,

each,
Parsley water,
half a drachm.
one ounce and
a half.

Syrup of seneka, six drachms.

Mix. A teaspoonful every two hours, in dropsy supervening on scarlatina. Vogt.

R. Bitartrate of potassium,

half an ounce.

Barley water, two pounds.

Dissolve, and add

Brandy, one to two ounces.

Much praised as a diuretic in dropsies.

Milman.

R. Bitartrate of potassium,

Borax, two drachms.
Boiling water, sufficient to dissolve. To ten ounces of the cooled solution add

Nitrate of potassium,

Oxymel, two drachms.

Mix. two ounces.

Beasley.

R. Bitartrate of potassium,
Extract of horehound,
each, two drachms.
Balm water, three ounces.
Mix. One-half to be taken morning and
evening, in hemorrhoids, with constipation.
Augustin.

## Imperial Drink.

R. Bitartrate of potassium,

half an ounce.

Lemon, cut into slices, one.

White sugar, half a pound.

Water, three pints.

Mix. Let stand for half an hour, and strain. A pleasant, cooling drink. Gray.

## POTASSII BORAS.

BORATE OF POTASSIUM.

R. Boracic acid, six parts. Bicarbonate of potassium,

five parts.

Mix, and heat to redness in a crucible, dissolve the residuum in water, filter, and evaporate to dryness. Dose, a few grains, in calculous disorders.

Beasley.

## POTASSII BORO-TARTRAS.

BORO-TARTRATE OF POTASSIUM.

R. Powdered bitartrate of
potassium, four ounces.
Boracic acid, one ounce.
Water, three pints.

Mix. and put in a silver basin and heil till

Mix, and put in a silver basin, and boil till most of the water is evaporated, and continue the evaporation by a gentle heat, constantly stirring. When the matter has become thick, take it up in portions, flatten them, and dry in a stove; reduce them to powder, and keep in well-closed bottles.

Paris Codex.

R. Borax, two parts. Boiling water, twenty parts. Dissolve, and digest with

Purified cream of tartar,

five parts.

Filter and evaporate on a vapor-bath until it becomes a tenacious mass; place on paper, dry by a gentle heat, and rub to powder.

This is known as soluble cream of tartar. It is purgative in about the same dose as cream of tartar. That made with borax is

deliquescent.

## Powder of Boro-tartrate of Potassium.

R. Cream of tartar, one ounce.

Borax, three drachms.

Sugar, two ounces.

Mix, and divide into three powders; one to be taken, in a glass of water, every half hour.

Pierquin.

## Compound Pills of Boro-tartrate of Potassium.

R. Boro-tartrate of potassium,
one drachm and a half.
Extract of buckbean, two ounces.
Seneka snakeroot, two drachms.
Colchicum, one drachm and a half.
Mix, and make pills of two grains. Dose,
six to twelve every two hours, as a hydragogue purgative.

Augustin.

## Solution of Boro-tartrate of Potassium.

R. Boro-tartrate of
potassium, five drachms.
Sugar, twenty drachms.
Boiling water,
twenty-seven troyounces.
Dissolve. A laxative drink.

Paris Codex.

## Mixture of Boro-tartrate of Potassium.

R. Boro-tartrate of potassium,
one ounce.
Mint water, eight ounces.
Spirit of nitrous ether,
two drachms.
Oxymel of squill, one ounce.
Mix. Two spoonfuls every two hours, as a diuretic.
Selig.

R. Boro-tartrate of
potassium, half an ounce.
Tartar emetic, one grain.
Water, four ounces.

Mix. In spoonful doses, in congestion of | R. Bromide of potassium, the head. Radius.

## Boro-tartrate of Potassium and Magnesium.

R. Boro-tartrate of potassium,

Water,

one part.

Carbonate of magnesium,

one-fourth part. six parts.

Dissolve the boro-tartrate in the water, saturate with the magnesia, evaporate carefully, till reduced to a tenacious paste, which divide into small masses, and dry in Mailliere Renault. a stove.

## Mixture of Boro-tartrate of Potassium and Magnesium.

R. Boro-tartrate of potassium and magnesium, thirty parts. Citric acid, two parts. Syrup of lemon, sixty parts. Warm water, three hundred parts. Mailliere Renault. Dissolve.

## POTASSII BROMIDUM.

BROMIDE OF POTASSIUM.

R. Bromine, two ounces. Iron filings, one ounce. Carbonate of potassium,

two ounces and one drachm. Distilled water, four pints.

To a pint and a half of the water, first add the iron and then the bromine. Set them aside for half an hour, occasionally stirring. Apply a gentle heat, and when the liquid becomes greenish, add the carbonate of po-tassium dissolved in a pint and a half of the water. Strain, and wash what remains in a pint of boiling distilled water, and again strain. Evaporate the mixed liquors to crystallization. U. S. Ph.

Stimulant, anaphrodisiac, antispasmodic, sedative, and soporific; used in diseases of the nervous system in doses of five to thirty grains; also as an alterative and resolvent, both externally and internally, in broncho-cele and scrofula, in doses of two to ten

grains three times a day.

## Solution of Bromide of Potassium.

R. Bromide of potassium,

twelve grains. Lettuce water, three ounces. Syrup of marsh mallow,

one ounce.

Mix. To be given in tablespoonful doses, in the twenty-four hours, in scrofula. Foy. Dose, from five to twenty grains.

two drachms.

Syrup of orange-peel,

one fl. ounce. three fl. ounces.

Water. Mix. Dose, a dessertspoonful thrice daily in epileptiform convulsions and hysteria.

Waring.

R. Bromide of potassium,

two drachms.

Cinnamon water, one fl. ounce. Dissolve. A dessertspoonful in the evening, to be repeated at bedtime, in insomnia. Brown-Séguard.

## Ointment of Bromide of Potassium.

R. Bromide of potassium,

thirty-four grains.

Lard, one ounce. Mix. In frictions on scrofulous swellings, and to tinea and tetter. Magendie.

## Compound Ointment of Bromide of Potassium.

R. Bromide of potassium,

twenty-four grains.

Liquid bromine,

six to twelve drops.

one ounce. Lard,

Magendie. Mix.

## POTASSII BICHROMAS.

## BICHROMATE OF POTASSIUM.

Large crystals having a deep orange-red color, and a strongly acrid and metallic taste. It is not used medicinally, but is employed in preparing chromic acid and for oxidizing amylic alcohol to valerianic acid. It acts as an escharotic.

## POTASSII CARBONAS.

CARBONATE OF POTASSIUM.

R. Impure carbonate of

potassium, thirty-six troyounces. two pints and a half. Water,

Dissolve the impure carbonate in the water, filter, pour into a clean iron vessel, and evaporate over a gentle fire till the solution thickens; then remove from the fire, and stir constantly, with an iron spatula, till the salt granulates.

Used as an antacid, and diuretic, etc.

## Pure Carbonate of Potassium.

R. Bitartrate of potassium,

two pounds.

Nitrate of potassium, one pound. Rub them separately into powder, mix, and throw the mixture into a brass vessel, heated nearly to redness, that they may undergo combustion; from the residue prepare the pure carbonate as directed for the carbonate.

U. S. Ph. 1840.

## R. Bicarbonate of potassium,

one pound.

Put it in an iron crucible, heat gradually to redness for half an hour; when cold, remove the carbonate, dissolve in distilled water, filter, and evaporate to dryness in an iron vessel.

U. S. Ph. 1870.

## Solution of Carbonate of Potassium.

R. Pure carbonate of

properly diluted.

potassium, eleven parts.
Distilled water, twenty parts.
Dissolve, and filter. Ph. Germ.
This is the alkaline lotion of Paris
Codex. Dose, ten minims to a fl. drachm,

#### Powder of Carbonate of Potassium.

R. Carbonate of potassium, ten grains.
 Powdered chamomile,

myrrh, each, twenty-four grains.

Mix. To be taken every hour, in the apyrexia of intermittents. Foy.

R. Carbonate of potassium, one part. Powdered gum Arabic, eight parts. Triturate together for a long time. Dose, half a drachm to a drachm, dissolved in water, in engorgement of the bowels.

Guibourt.

## Collyrium of Carbonate of Potassium.

R. Carbonate of potassium,

Water, one ounce.

Mix. To be dropped in the eye every two to four hours, in specks on the cornea.

Himley.

R. Carbonate of potassium,

twenty-five grains.

Veal broth, filtered,

Celandine water, each, two ounces. Digest for twenty-five hours on a sand-bath, filter, and add Tincture of aloes,

twenty-four drops.

In specks on the cornea.

Bories.

## Tincture of Carbonate of Potassium.

R. Carbonate of potassium, one part. Calcine it with a strong heat in a crucible for two hours, pour it in a heated mortar, pulverize it rapidly, and pour on the hot powder,

Alcohol, four parts.

Digest for fifteen days in a stove, often agitating, and filter.

Guibourt.

This is a weak alcoholic solution of caustic potassa.

## Collutory of Carbonate of Potassium.

Essence of mint, twenty drops.

roses, cochineal,

Carbonate of potassium,

each, ten grains.

Macerate for twenty-four hours, and filter.

Much esteemed as a mouth wash and gargle, under the name of *Oriental Water*.

A teaspoonful is to be used, mixed with a glass of water.

Delabarre.

## Emulsion with Carbonate of Potassium.

R. Carbonate of potassium,

Yolk of egg, three drachms.

Mucilage, one drachm.
Oil of almonds,
Cherry water, each,
Linden water, two ounces.

Mix. A teaspoonful every hour, in the colic of children.

Rosenstein.

## Fomentation with Carbonate of Potassium.

R. Carbonate of potassium,

Soap, each, one ounce. Elder water, two pounds.

Dissolve, filter, and add

Sal ammoniae, two drachms.

As an application to bruises, etc. Cadet.

## Liniment with Carbonate of Potassium.

R. Solution of carbonate
of potassium, two ounces.
Olive oil, four ounces

Yolks of eggs, two.

Mix. As an application to chaps. Plenck.

## Lotion of Carbonate of Potassium.

R. Carbonate of potassium,

Water, three drachms. four ounces.
In pruritus vaginæ. Trousseau.

R. Carbonate of potassium,

Rose water, one ounce.

Dissolve, and filter. As an application to chilblains.

Brugnatelli.

R. Carbonate of potassium,

Common salt, two drachms.
Rose water, eight ounces.
Orange-flower water, two ounces.
Mix. As a lotion in sunburn and tan.

Sundelin.

## Mixture of Carbonate of Potassium.

R. Carbonate of potassium,

two drachms.

Antimonial wine, one fl. drachm.

Laudanum, forty drops.

Compound spirit of lavender,

two fl. drachms.

Distilled water, four fl. ounces.

Mix. A tablespoonful, every hour or two, as an expectorant.

Ellis.

R. Carbonate of potassium,

one scruple.
Lemon juice, four fl. drachms.
Cinnamon water, seven fl. drachms.
Wine of ipecacuanha,

fifteen to twenty drops.

Mix. To be taken every three or four hours, as a diaphoretic.

Burke.

R. Carbonate of potassium,

one scruple.

Powdered gum Arabic,

Oil of mint, two drops.
Laudanum, ten drops.
Water, three ounces.

Mix. A tablespoonful for a dose, as may

be required, in sickness of the stomach.

R. Carbonate of potassium, one drachm. Peppermint water, four ounces.

Hoffmann's anodyne, two scruples.
Simple syrup, half an ounce.
Mix. Dose, a tablespoonful in asthma, with acidity of the stomach.

Augustin.

R. Carbonate of potassium,

White sugar, each, one drachm. Compound spirit of

lavender, two fl. drachms.
Laudanum, forty drops.
Mint water, four fl. ounces.

Mix. A tablespoonful, every hour or two, in sickness of the stomach, with acidity.

Ellis.

R. Aromatic spirit of ammonia, one fl. drachm.

Carbonate of potassium,

two drachms.

Cinnamon water, four fl. ounces.

Mix. A teaspoonful occasionally, in pyrosis.

Ellis.

R. Carbonate of potassium, Ipecacuanha, Calomel, Water, two pints.

Boil down to one-half in an earthen vessel. Two spoonfuls a day, in a quart of infusion of sarsaparilla.

St. Marie.

R. Carbonate of potassium,

one drachm. six ounces.

Elder-flower water, Syrup of marsh mallow,

one ounce.

Mix. A spoonful every hour, in angina accompanied with aphtha, in catarrhal fevers. Radius.

R. Carbonate of potassium,

Cochineal, one scruple.

Hyssop water, four ounces.

Syrup of poppies,

" tolu, each, half an ounce.

Orange-flower water, Syrup of ipecacuanha,

each, one ounce.

Mix. A spoonful, every two hours, in hooping-cough. Bories.

## Compound Tincture of Carbonate of Potassium.

R. Carbonate of potassium, Cinnamon water, each, one pound. Opium, two ounces. Vinous cinnamon

water, four ounces.

Digest in a water-bath for three weeks, often agitating; and add to the filtered solution,

Gum Arabic, two ounces. Carbonate of ammonium,

Cinnamon water, one ounce. six ounces.
In syphilis. Niemann.

## Ointment of Carbonate of Potassium.

R. Carbonate of potassium,

Sulphur, two ounces.

Lard, four ounces.

Mix. As a friction in itch.

Brera.

## POTASSII CHLORIDUM.

CHLORIDE OF POTASSIUM.

R. Carbonate of potassium, at will. Dissolve in a sufficient quantity of water, filter, and add muriatic acid to saturation; concentrate the solution by evaporation, and cool slowly, that crystals may form.

Guibourt.

Formerly known as the Salt of Sylvius, and used in fever to excite perspiration, and as a diuretic, in doses of from one to two scruples.

## POTASSII CHLORAS.

CHLORATE OF POTASSIUM.

R. Carbonate of potassium,

Quicklime, one part.

Mix, and expose to a current of chlorine gas. When saturated, heat the mixture gently, digest it in water, and separate the chlorate from the filtered liquid by crystallization.

Graham.

R. Caustic potassa, one part. Water, sufficient

to form a solution of sp. gr. 1.110.

Lime, five and a half parts.

Mix, and heat to temperature of 122° F.; then pass chlorine through the mixture to saturation. Evaporate nearly to dryness, dissolve in boiling water, filter, and crystallize.

F. C. Calvert.

Has been used in scurvy, chronic hepatitis, syphilis, etc., in doses of fifteen to

twenty grains.

## Powder of Chlorate of Potassium.

R. Chlorate of potassium,

Sugar, one scruple.

Mix. To be given two to four times a day, in phthisis, to diminish the febrile state.

Radius.

## Stevens's Saline Powder.

R. Chlorate of potassium,

seven grains. Chloride of sodium, one scruple.

Bicarbonate of sodium, half a drachm.

Mix. For a dose. Stevens. Recommended in cholera.

## Solution of Chlorate of Potassium.

R. Chlorate of potassium,

one drachm. elve fl. ounces.

Distilled water, twelve fl. ounces.

Dissolve. Copland.

As a lotion to indolent ulcers.

As a lotion to indolent dicers

R. Chlorate of potassium,

half a drachm.
Syrup, two and a half drachms.
Water, twelve and a half drachms.
To be given in the course of the day,

Mix. To be given in the course of the day, in tablespoonful doses, in cancrum oris.

R. Chlorate of potassium,

one drachm and a half.
Distilled water, five fl. ounces.
Dissolve. A tablespoonful, every two
hours, in obstinate rheumatism, tic-doulou-

## Lozenges of Chlorate of Potassium.

R. Chlorate of potassium,

reux, etc.

in fine powder, five troyounces.

Sugar, in fine powder,

eighteen troyounces.

Knod.

Tragacanth, in fine

powder, two troyounces.
Vanilla, thirty grains.

Rub the vanilla with some of the sugar to a uniform powder, mix thoroughly with the other powders, avoiding pressure, add water to form a mass, and divide into four hundred and eighty troches.

U. S. Ph.

Each lozenge contains five grains of the

chlorate. Dose, one to six.

The lozenges of *Brit. Ph.* are nearly identical with the above. Those of *Paris Codex* contain one grain and a half of chlorate.

## Gargle of Chlorate of Potassium.

R. Chlorate of potassium, one part.
Distilled water, twenty-five parts.
Syrup of mulberries, five parts.
Dissolve, and mix.

Paris Codex.

## Injection of Chlorate of Potassium.

R. Chlorate of potassium,

Water, eight fl. ounces.

Dissolve. In leucorrhæa and ulceration of the os uteri; also in gonorrhæa.

B. Brown.

## POTASSII CITRAS.

CITRATE OF POTASSIUM.

R. Citric acid, ten troyounces. Bicarbonate of potassium,

fourteen troyounces.

Dissolve the acid in a pint of water, and gradually add the bicarbonate; when effervescence ceases, filter the solution, if necessary, through paper, and evaporate to dryness, observing to stir constantly as soon as the salt begins to granulate. Then rub it in a mortar, pass it through a coarse sieve, and put it in bottles, which must be closely stopped.

U. S. Ph.

## Effervescing Draught.

R. Carbonate of potassium,

Water,

two drachms.

Distilled water, four fl. ounces.

Dissolve.

R. Fresh lemon juice, Distilled water, each,

two fl. ounces.

Mix. Add two tablespoonfuls of the diluted lemon juice, to one of the alkaline solution, and let the mixture be taken in a state of effervescence.

An excellent diaphoretic. Ellis.

#### Solution of Citrate of Potassium.

R. Citric acid, half a troyounce.
Water, half a pint.
Bicarbonate of potassium,

three hundred and thirty grains.

Dissolve, and strain. U. S. Ph.

This neutral mixture is used where fresh lemon juice cannot be procured; it is as efficacious, but is not as agreeable.

R. Citrate of potassium, three drms.

Distilled water, four fl. ounces.
Oil of lemon, two drops.
White sugar, two drachms.

Mix. A tablespoonful to be taken every two hours. In same cases as the neutral mixture.

Ellis.

## Mixture of Citrate of Potassium. (Neutral Mixture.)

R. Fresh lemon juice, half a pint. Bicarbonate of potassium,

sufficient.

Neutralize the juice with the bicarbonate, and strain. U. S. Ph.

## Compound Neutral Mixture.

R. Lemon juice, one fl. ounce. Carbonate of potassium, sufficient to saturate; add

Mint water,
Tartar emetic,
Syrup,
Mix.

Seven fl. ounces.
one grain.
half an ounce.
Lisbon Ph.

## Mixture of Citrate of Potassium and Peruvian Bark.

R. Lemon juice, one fl. ounce and a half.

Carbonate of potassium,

one drachm.

Tincture of Peruvian

bark, one fl. ounce. Cinnamon water, three fl. ounces.

Mix. A tablespoonful every two hours. To promote insensible perspiration while taking bark.

## POTASSII CYANIDUM

CYANIDE OF POTASSIUM.

R. Ferrocyanide of potassium,
dried, eight ounces.
Carbonate of potassium,
dried, three ounces.

Mix the salts and throw the mixture into a deep iron crucible, heated to redness; keep up the temperature till effervescence ceases, and the fused mass concretes of a white color upon a warm glass rod dipped into it. Then pour the liquid carefully into a shallow dish to solidify, stopping before the salt becomes contaminated with the precipitated iron. Break up the mass while yet warm, and preserve it in well-stopped bottles.

U. S. Ph.

Dose, one-eighth of a grain.

R. Ferrocyanide of potassium,
dried, eight ounces.
Pure carbonate of potassium,
three ounces.

Charcoal, in fine powder,

one ounce.

Mix well, fuse in an iron vessel until effervescence ceases, and the fusion is tranquil; pour out the fused mass on an iron plate, and cool. Powder when cool, dissolve in alcohol (.900), and separate and dry the crystals which form on cooling, and preserve them in well-closed bottles. Wöhler.

## Pills of Cyanide of Potassium.

R. Cyanide of potassium, Starch mixed with syrup

of gum, each, half a grain.

Mix, and make two pills. Dose, one, morning and evening. In spasmodic affections of the chest.

Foy.

## Solution of Cyanide of Potassium.

R. Cyanide of potassium,

twenty-two grains.
Diluted alcohol, nine fl. drachms.
Dissolve. Equal to hydrocyanic acid.

Laming.

## Mixture of Cyanide of Potassium.

R. Cyanide of potassium,
seven grains and a half.
Distilled water, one pint.
Sugar, one ounce and a half.
Mix. A tablespoonful, night and morning, in pectoral affections.

Magendie.

R. Cyanide of potassium, four grains.
Distilled water, two ounces.
Syrup, three drachms.

Mix. A teaspoonful, every three or four hours, in asthma and chronic catarrh.

Cadet.

R. Tincture of castor,

Musk,

Nitrate of potassium,

Cyanide of potassium, two grains.

Linden-flower water,

eight fl. ounces.

Mix. To be taken in divided doses, in twenty-four hours, in chorea. Fouquier.

## Syrup of Cyanide of Potassium.

R. Cyanide of potassium,
seven grains and a half.
Simple syrup, one pound.
Mix. Magendie.

## Lotion of Cyanide of Potassium.

R. Cyanide of potassium,

one to four grains.

Distilled water, one ounce.

x. Foy.

R. Cyanide of potassium,

Distilled water, one ounce.

Mix. To be applied by means of compresses, in cases of neuralgia, articular rheumatism, etc.

Foy.

R. Cyanide of potassium, ten grains. Emulsion of bitter almonds,

six ounces.

Mix. As an application to chronic eruptions attended with much itching.

Cazenave.

## Ointment of Cyanide of Potassium.

R. Cyanide of potassium,

Lard,

Water,

Mix.

one to four grains.
one ounce.

Lombard.

R. Cyanide of potassium,

twelve grains.

Oil of almonds, two drachms.

Cold cream, two ounces.

Mix. To be rubbed on the skin to relieve neuralgic pains.

Cazenave.

## POTASSII ET AMMONII CARBONAS.

CARBONATE OF POTASSIUM AND AMMONIUM.

R. Carbonate of potassium,

four parts.

ammonium,

one part.

to dissolve the two salts. Pass a current of carbonic acid through the solution to saturation, heat gently, and let crystallize. In doses of half a drachm, in half an

In doses of half a drachm, in half an ounce of mint water, four times a day, in diabetes, dyspepsia, gravel, etc. Swediaur.

## POTASSII ET AMMONII SULPHAS.

SULPHATE OF POTASSIUM AND AMMONIUM.

R. Bisulphate of potassium, one part. Boiling water, two parts. Dissolve, and add

Solution of ammonia, sufficient to saturate, and crystallize. Van Mons.

## POTASSII ET AMMONII TARTRAS.

TARTRATE OF POTASSIUM AND AMMONIUM.

R. Bitartrate of potassium, one pound.
Boiling water, sufficient
to dissolve; add gradually

Solution of ammonia, sufficient to saturate the excess of the acid; filter, and evaporate, so that crystals may form.

Hamb. Ph.

## Solution of Tartrate of Potassium and Ammonium.

R. Solution of carbonate
of ammonium, six ounces.
Add, gradually,

Bitartrate of potassium, sufficient to saturate; let stand for some hours, and filter. Diuretic, in doses of a drachm.

## Mixture of Tartrate of Potassium and Ammonium.

R. Tartrate of potassium
and ammonium, half an ounce.
Fennel water, six fl. ounces.
Extract of dandelion,

Clarified honey, each, one ounce.

Mix. A spoonful every hour, as a divretic.

Phæbus.

## POTASSII ET MAGNESII SULPHAS.

Sulphate of Potassium and Magnesium.

R. Sulphate of potassium,
three and a half parts.
Sulphate of magnesium, ten parts.
Boiling water, sufficient.
Filter, and crystallize.

## POTASSII ET SODII TARTRAS.

TARTARIZED SODA.—ROCHELLE SALT.

R. Carbonate of sodium,
twelve troyounces.
Cream of tartar, sixteen
troyounces.
Boiling water, five pints.

Dissolve the carbonate in the water, and add gradually the cream of tartar; filter, evaporate to a pellicle, and set aside to crystallize. Decant, and dry crystals on bibulous paper.

U. S. Ph.

Mild purgative in doses of half an ounce

to an ounce.

### Powder of Tartarized Soda and Rhubarb.

R. Tartarized soda, ten grains. Powdered rhubarb,

three to seven grains.

Mix. To be taken every morning for two weeks, in enlargement of the mesentery, in children.

Fordyce.

## Aperient Effervescing Powders. (Seidlitz Powders.)

R. Tartarized soda, three troyounces.
Bicarbonate of sodium, one troyounce.

Mix thoroughly, and divide into twelve equal parts.

Powdered tartaric acid,

seven drachms.

Divide into twelve equal parts, and keep these in papers colored differently from those of the preceding powders. U.S. Ph.

For use, dissolve one of each kind of powders in some water, mix the solution, and take during effervescence.

## Mixture of Tartarized Soda.

R. Tartarized soda, half an ounce. Sulphate of potassium,

two drachms.

Infusion of succory, one pint. Oxymel of squill, four fl. ounces.

Mix. Four spoonfuls, in the morning, with an hour's interval. In visceral obstructions. St. Marie.

R. Tartarized soda, one ounce. Extract of henbane, six grains. Syrup of chamomile, one fl. ounce. Water, six fl. ounces.

Mix. A spoonful every hour, in constipation. Phæbus.

## Whey with Tartarized Soda.

R. Root and leaves of dandelion,
Fumitory,
Water-cress,
Chervil,
Clarified whey,
Boil for five minutes, express, strain, and

Tartarized soda, two drachms. Honey, six drachms.

To be taken every morning, early, in four doses, with the interval of an hour. Much praised in visceral obstructions.

St. Marie.

## Clyster with Tartarized Soda.

R. Tartarized soda,

Extract of dandelion,

each, five drachms.

Infusion of elder flowers,

five fl. ounces.

Dissolve.

Radius.

## POTASSII IODAS.

## IODATE OF POTASSIUM.

R. Iodine, at will.

Caustic potassa, sufficient.

Dissolve the iodine in the alkali till the solution begins to become colored. Evaporate to dryness; treat the residue with alcohol, and preserve the residue. The alcohol takes up the iodide of potassium.

Ferarra Ph.

R. Iodide of potassium, one part. Fuse in a capacious crueible, and gradually add to the fused salt, after removing from the fire,

Chlorate of potassium, one and a half parts.

Wash the mass with some warm water, which leaves the iodate undissolved.

Beasley.

## Syrup of Iodate of Potassium.

R. Iodate of potassium,

Peppermint water, Simple syrup, two drachms. Simple syrup, ten ounces.

Mix. Giordano.

#### POTASSII IODIDUM.

IODIDE OF POTASSIUM.

R. Potassa, six troyounces. Iodine, in powder,

sixteen troyounces. Charcoal, in powder, two

troyounces.
Boiling distilled water, three pints.
Dissolve the potassa in the water, add the iodine gradually until in slight excess, stirring after each addition till the solution be-

comes colorless. Evaporate to dryness, stirring in the charcoal towards the close; rub to powder and heat to dull redness, maintaining the temperature for fifteen minutes. Cool, dissolve in water, filter, evaporate, and crystallize. The mother-liquor yields more crystals by evaporation.

U. S. Ph.

R. Iodine, sixteen ounces.
Distilled water, eight pints.
Sulphuret of barium, sufficient.
Sulphate of potassium,

twelve ounces.

Mix the iodine with the water, and gradually add the powdered sulphuret, until the solution becomes colorless, constantly stirring. Heat to the boiling point, add the sulphate of potassium, boil for a quarter of an hour, and filter. Evaporate to crystallization.

Mohr.

R. Iodine, one hundred grains. Carbonate of potassium,

Water, seventy-five grains. two drachms. Iron filings, thirty grains.

Mix, and heat slightly, then to redness; the resulting red powder is to be treated with water; filtered, and evaporated to dryness.

Pypues.

Dose, two to fifteen grains, but has been given in still larger quantities.

## Pills of Iodide of Potassium.

R. Iodide of potassium,

Distilled water, six drachms.
Crumb of bread, sufficient.
Mix, and make three hundred pills. In goitre, leucorrhœa, etc.

five drachms.
sufficient.
Pierquin.

R. Iodide of potassium, fifteen grs. Burnt sponge,

Extract of bittersweet,

each, five drachms.
Distilled water, sufficient.
Mix, and make one hundred and eighty pills. Six, twice a day, in scrofula and goitre.

Vogt.

## Lozenges of Iodide of Potassium.

R. Iodide of potassium, one drachm.
Sugar, three ounces.
Mucilage of tragacanth, sufficient.
Mix, and make lozenges of twelve grains.
One to six or more a day. Giordano.

R. Iodide of potassium,

seventy-five grains.
Powdered coffee, half a drachm.
" sugar, four ounces.

Mucilage of gum, made with a R. Iodide of potassium, strong infusion of coffee,

sufficient. Mix, and make three hundred lozenges. Each contains a quarter of a grain of the iodide. In goitre, scrofula, etc. Pierquin.

# Solution of Iodide of Potassium.

R. Iodide of potassium,

thirty-six grains. Distilled water, one ounce. Dissolve. Dose, ten minims. Magendie.

- R. Iodide of potassium, one drachm. Distilled water, Fifteen drops, gradually in-Dissolve. creased, three times a day, in ovarian dropsy. Elliotson.
- R. Iodide of potassium, four ounces. Distilled water, sufficient for eight fl. ounces.

Dissolve. Ten minims contain five grains of the iodide. Guy's Hosp.

# Injection of Iodide of Potassium.

R. Iodide of potassium,

one to three grains. Distilled water. one pint. Dissolve. To stimulate fistulous sinuses in scrofulous patients.

#### Mixture of Iodide of Potassium.

R. Iodide of potassium,

one to four drachms. eight fl. ounces. Lettuce water, Mint water, two fl. drachms. Syrup of marsh mallow,

one fl. ounce.

Cazenave.

Mix. Foy.

R. Iodide of potassium, four drachms. Lettuce water, eight fl. ounces. Orange-flower water,

one fl. drachm. Tincture of foxglove, one to two fl. drachms.

Syrup of marsh mallow, one fl. ounce and a half.

Mix. Magendie. In hypertrophy of the heart. A teaspoonful, morning and evening.

R. Iodide of potassium, two drachms. Distilled water, sixteen fl. ounces. two fl. ounces. Mix. Two or three tablespoonfuls a day.

half a drachm. Syrup of ginger, one fl. ounce. Water, five fl. ounces. Mix. Dose, a tablespoonful three times a day.

R. Quassia, Gentian, each, one drachm. Boiling water, sixteen fl. ounces. Macerate for an hour, strain, and add

Iodide of potassium,

thirty-six grains. Carbonate of potassium, two drachms.

Mix. A tablespoonful three times a day.

Cumming.

R. Iodide of potassium, three grains. Medicinal hydrocyanic ten to twelve drops. acid. Lettuce water, four fl. ounces. Syrup of marsh mallow, one fl. ounce.

Mix. A teaspoonful every hour, in phthisis. Magendie.

R. Iodide of potassium, two grains. Sulphate of magnesium, half an ounce.

Tartar emetic, half a grain. Distilled water, six fl. ounces. Mix. A teaspoonful three or four times a Radius. day, in scrofula.

#### Syrup of Iodide of Potassium.

R. Iodide of potassium, Water, each, twenty-five grains. two troyounces. Simple syrup, Dissolve. Paris Codex.

# Syrup of Iodide of Iron and Potassium.

R. Iodide of potassium,

twenty grains. Concentrated solution, containing iodide of iron, fifteen grains. Orange-flower water, thirty grains. two troyounces. Syrup, Dissolve and mix. Lahache.

#### Iodide of Potassium and Sarsaparilla.

R. Iodide of potassium, one drachm. Decoction of sarsaparilla,

two pints.

Syrup of orange-peel, two fl. ounces. Mix. To be taken in glassfuls, during the day. Magendie.

# Ointment of Iodide of Potassium.

R. Iodide of potassium, in

powder, one drachm.
Boiling water, half a fl. drachm.
Lard, seven drachms.

Dissolve the iodide in the water, and mix the solution with the lard. U. S. Ph.

The strength of this ointment may vary much, from containing a twenty-fourth of the salt, to an eighth or more, according as it may be required. In goitre, scrofulous swellings, etc.

R. Iodide of potassium,

sixty-four grains.
Carbonate of potassium, four grs.
Distilled water, one fl. drachm.
Prepared lard, one ounce.

Dissolve the salts and mix with lard.

Brit. Ph.

R. Iodide of potassium, twenty parts.

Hyposulphite of sodium, one part.

Distilled water, fifteen parts.

Lard, one hundred and sixty-five parts.

Dissolve the salts in the water, and mix with the lard. Ph. Germ.

The addition of a little potassa, carbonate of potassium, or hyposulphite of sodium prevents the liberation of iodine, and preserves the white color of the ointment.

R. Spermaceti, half an ounce.
Olive oil, six drachms.
White wax, two drachms.
Iodide of potassium, four scruples.
Oil of lemon,

" roses, each, three drops.

Mix. This ointment does not change color by keeping.

Kallhofert.

R. Iodide of potassium, Carbonate of sodium,

each, half a drachm.
Rose water ointment, six drachms.
Mix well. In chronic enlargement of the
testicle.

Walthen.

# Ointment of Iodide of Potassium and Opium.

R. Iodide of potassium,

one drachm and a half.

Lard, one ounce and a half.

Laudanum, one fl. drachm.

Mix.

A. T. Thomson.

R. Iodide of potassium,

half a drachm.

Extract of opium, ten grains.

Simple cerate, one ounce.

Mix. As a dressing to cancerous ulcers.

# Ointment of Iodide of Potassium and Mercury.

R. Iodide of potassium,

twelve to twenty grains.

Mercurial ointment, half an ounce.

Mix. In various diseases of the skin.

Blarius.

R. Ointment of iodide of potassium,
Mercurial ointment,
Oil of henbane,
" juniper, one drachm.

Mix. Schonlein.

When iodide of potassium and mercurial ointment are mixed, the globules soon appear; but if the iodide be artificially dried, previously, a uniform ointment is produced.

R. Iodide of potassium, three parts.
Iodide of mercury,
Camphor, each, two parts.
Galen's cerate, thirty-two parts.
Mix. Used as a friction in acute hydrocephalus, in doses of half a drachm to a drachm.

Golfin.

# Ointment of Iodide of Potassium and Morphia.

R. Iodide of potassium,

fifteen grains.

Muriate of morphia,

half a drachm.

Lard, ten ounces.

Mix. In painful tumors of the breasts, to be applied twice a day. Chomel.

#### Liniment of Iodide of Potassium.

R. Hard soap, cut small, Iodide of potassium,

each, one ounce and a half.
Glycerin, one fl. ounce.
Oil of lemon, one fl. drachm.
Distilled water, ten fl. ounces.

Dissolve the soap in seven ounces, and the glycerin and iodide in the remaining water, mix the solutions, and add the oil of lemon.

Brit. Ph.

R. Animal soap, one ounce and a half.
Alcohol, four fl. ounces.

Dissolve. Add solution of one ounce of | POTASSII IODURETUM. iodide of potassium in four ounces of alcohol, aromatize with a few drops of oil of lavender, and pour into wide-mouthed bot-Boudet.

R. White soap, seven drachms. Diluted alcohol, two fl. ounces. Dissolve by a gentle heat, and whilst warm,

Iodide of potassium, four drachms, dissolved in

Diluted alcohol, four fl. drachms. Beasley.

R. Iodide of potassium,

four drachms. Diluted alcohol, two ounces. Dissolve.

Curd soap, six drachms. Diluted alcohol, two ounces. Dissolve by a gentle heat, add the solution of iodide of potassium, and aromatize.

Foy. These are used as liniments in goitre.

R. White soap, ten drachms. Oil of almonds, ten drachms. Iodide of potassium, one drachm. Water, one drachm.

Dissolve the iodide in the water, and add it to the soap and oil, melted together.

Guibourt.

#### Plaster of Iodide of Potassium.

R. Iodide of potassium, one ounce. Prepared frankincense, six ounces. Wax, six drachms. Olive oil, two fl. drachms. Melt the frankincense and wax, add the iodide previously rubbed with the oil, and stir till cool. Lond. Ph.

#### Soap of Iodide of Potassium.

R. Camphor, one drachm. Tincture of benzoin, three drachms.

Add to the solution, triturating well,

Iodide of potassium, two drachms. Goulard's extract, four drachms. Add to the mixture,

Oil of almonds, thirty-four drachms. Solution of potassa, two ounces. Essence of lavender, half a drachm. Mix well. As an application to chilblains.

BINIODIDE (SUPER-IODIDE) OF POTAS-SIUM.

# (IODURETTED POTASSIUM.)

R. Iodide of potassium, twenty parts. Iodine. six parts.

Mix, and triturate together till the mass is homogeneous, and of a dark brown color. Giordano.

To obtain a perfectly saturated salt in solution, iodine in excess is to be added to a solution of the iodide until no more is dissolved. In the following preparations there is a mixture of the iodide and superiodide.

#### Ioduretted Water.

R. Iodide of potassium, six grains. Iodine, one grain. Water, two pints.

Dissolve. To be used as a drink at meals. Magendie.

# Lugol's Ioduretted Waters.

No. 1.

R. Iodide of potassium,

one grain and a half. Iodine, three-quarters of a grain. Distilled water, eight fl. ounces. Dissolve.

No. 2.

R. Iodide of potassium, two grains. Iodine, one grain. Distilled water, eight fl. ounces. Dissolve.

No. 3.

R. Iodide of potassium,

two grains and a half. Iodine, one grain and a quarter. Distilled water, eight fl. ounces. Dissolve. The first is for young children, to be taken in divided doses, in three days; the second for those of more advanced age,

Lugol. day. R. Iodide of potassium, six grains. Iodine. three grains. Water, sixteen fl. ounces.

in two days; the third for adults, in one

Dissolve. In poisoning by the vegetable alkaloids, in wineglassfuls, after the stomach has been emptied. Bouchardat.

#### Ioduretted Baths.

R. Iodide of potassium, four scruples. two scruples. Iodine,

¹ Compare also the Chapter on Iodine, Cadet. pp. 352, 353.

Magendie.

Water, ten fl. ounces.

Dissolve. To be added to a sufficient quantity of water. For children.

R. Iodide of potassium, six drachms.

Iodine, three drachms.
Water, twenty fl. ounces.

Dissolve. To be added to a sufficient quantity of water. For adults. Foy.

# Collyrium of Ioduretted Potassium.

R. Iodide of potassium,

twenty-four grains.

Iodine, one to two grains.
Rose water, six fl. ounces.
Dissolve. To be used four times a day, in scrofulous ophthalmia. Ryan.

# Ioduretted Injection.

- R. Iodide of potassium, four grains.

  Iodine, two grains.

  Distilled water, sixteen fl. ounces.

  Dissolve.
- R. Iodide of potassium, eight grains.
  Iodine, four grains.
  Distilled water, sixteen fl. ounces.
  Dissolve. To stimulate fistulous sinuses.
  Guibourt.

# Syrup of Ioduretted Potassium.

R. Ioduretted potassium,

twenty grains.
Peppermint water, two fl. drachms.
Simple syrup, two fl. ounces.
Dissolve the biniodide in the peppermint water, and add the solution to the syrup.

Giordano.

Lotion of Ioduretted Potassium.

R. Iodide of potassium,

two to four grains.

Iodine, one to two grains.

Distilled water, eight fl. ounces.

Dissolve. As an application to scrofulous ophthalmia, fistulas, etc.

Lugol.

#### Caustic Solutions of Ioduretted Potassium.

R. Iodide of potassium, two ounces.

Iodine, one ounce.

Distilled water, three fl. ounces.

Dissolve.

Guibourt.

ten fl. ounces.
to a sufficient dildren.

R. Iodide of potassium, one ounce.
Iodine, half an ounce.
Distilled water, six fl. ounces.

Soubeiran.
These two preparations are used to touch the eyelids in scrofulous ophthalmia.

R. Iodide of potassium,
Iodine, each, one ounce.
Distilled water, two fl. ounces.
Mix. Guibourt.

R. Iodide of potassium, lodine, Distilled water, each, one ounce.

Mix. Cadet.

These are used to touch the surfaces of scrofulous ulcers.

#### Mixture of Ioduretted Potassium.

R. Iodide of potassium, four drachms. Iodine, two grains. Orange-flower water, Mint water, each, three fl. ounces.
Mix. A dessertspoonful three times a day,

R. Iodide of potassium,

in epilepsy.

half a drachm.

Iodine, half a grain.

Syrup of poppies, half a fl. ounce.

Distilled water, half a pint.

Mix. Two tablespoonfuls, three times a day, in syphilis combined with scrofula.

Tyrrell.

# Compound Ointment of Iodine.

R. Iodide of potassium,

twenty-four grains.

Iodine, twelve grains.
Lard, two ounces.

Mix. Lugol.

R. Iodide of potassium, two drachms.
Iodine, eighteen grains.
Lard, two ounces.

Mix. Lugol.

R. Iodide of potassium,
two drachms and a half.
Iodine,
Lard,
two ounces.
Mix. In scrofulous ulcers, etc.
Lugol.

# Ointment of Biniodide of Potassium and Opium.

R. Iodide of potassium, one drachm. Iodine, fifteen grains.

Rousseau's laudanum, drachms. Lard, two ounces. Mix. As an application to scrofulous ulcers.

#### Plaster of Ioduretted Potassium.

R. Iodide of potassium, Iodine, each, ten grains to one scruple.

Mercurial or soap plaster, two ounces. Mix. As an application to syphilitic and gouty swellings. Ebers.

# POTASSII IODO-HYDRAR-GYRAS.

IODO-HYDRARGYRATE OR HYDRAR-GYRO-IODIDE OF POTASSIUM.

R. Iodide of potassium, eight grains, dissolved in ten or fifteen minims of water. Red iodide of mercury,

eleven grains.

Mix. This contains twenty grains of the hydrargyro-iodide, and is not decomposed by water.

R. Bichloride of mercury,

one equivalent.

Dissolve in a solution of Iodide of potassium,

four equivalents.

Evaporate to dryness, treat with alcohol, and evaporate to crystallization.

Dose, one-twelfth of a grain three times a day; in many cases a much smaller quantity is required to be given.

#### Solution of Hydrargyro-Iodide of Potassium.

R. Iodide of potassium, three grains and a half. Red iodide of mercury,

four grains and a half. Distilled water, one fl. ounce.

Dissolve first the iodide of potassium, and then the mercurial salt, in the water. The compound salt amounts to about eight grains. The dose is from two to five drops, three times a day, much diluted, in dyspepsia, enlargement of the spleen, dropsy, etc. Channing. Mix.

two R. Iodide of potassium, Red iodide of mercury, eight grains. Distilled water, eight fl. ounces. Mix. Dose, two fl. drachms and upwards, in the twenty-four hours.

> R. Hydrargyro-iodide of potassium, twelve grains. Water, sixteen fl. ounces. Mix. Lamothe.

#### Syrup of Hydrargyro-Iodide of Potassium.

R. Red iodide of mercury, Iodide of potassium, two grains. Syrup of acacia, fourteen troyounces. Dissolve. Ricord.

# Tincture of Hydrargyro-Iodide of Potassium.

R. Hydrargyro-iodide of potassium, one grain. Diluted alcohol, one fl. ounce. Dissolve. Ten drops three times a day.

#### Pills of Hydrargyro-Iodide of Potassium.

R. Red iodide of mercury, Iodide of potassium, eight grains. each, Sugar of milk, sixty-four grains. Mucilage of gum Arabic, sufficient. Mix, and make thirty-two pills. Puche.

R. Iodide of potassium, Red iodide of mercury, six grains. each, Opium, twelve grains. Mix, and make twenty-four pills. Mialhe.

#### Ointment of Hydrargo-Iodide of Potassium.

R. Red iodide of mercury, seven grs. Iodide of potassium, two scruples. Lard, Mix. To be applied to tumors, two or three times a day. Hildreth.

R. Hydrargyro-iodide of one scruple. potassium, one ounce. Lard, Lamothe.

# POTASSII NITRAS.

NITRATE OF POTASSIUM. (NITRE.—SALTPETRE.)

#### Purified Nitrate of Potassium.

R. Nitrate of potassium, four pounds.

Distilled water, five pints.

Dissolve the nitre in two pints of boiling water, and stir the solution till it cools.

Decant, drain the crystals, and wash with the remainder of the water. Finally dry in an oven.

Dub. Ph. 1826.

Dose, five to ten grains.

# Fused Nitrate of Potassium. (Sal Prunelle.)

R. Nitrate of potassium, at will.

Melt in a crucible, and cast it into moulds.

Guibourt.

R. Nitrate of potassium,

two pounds and a half.

Melt in a crucible, adding gradually

Sulphur, half an ounce.

After the deflagration, and the mixture is somewhat cooled, pour it into a basin, and turn this in all directions, so that the mass may cool in a thick and uniform layer.

When cool, break this in pieces. Span. Ph. This preparation will contain some sul-

phate of potassium.

#### Powder of Nitrate of Potassium and Orris Root.

R. Nitrate of potassium, one drachm.
Spermaceti, two drachms.
Sugar,

Orris root, each, one ounce.

Mix. A teaspoonful, in catarrhal affections.

Augustin.

#### Nitrous Powders.

R. Powdered nitre,
Tartar emetic,
Calomel,
One grain.
four grains.

Mix, and divide into eight powders. One every two hours. As a diaphoretic, etc., in fevers.

Dewees.

R. Nitrate of potassium, two ounces. Bitartrate of potassium,

Tartar emetic, four grains.

Mix. Dose, ten to thirty grains.

Univer. Coll. Hosp.

R. Nitrate of potassium, one part. Cream of tartar, two parts. Sugar, six parts. Powder and mix. This is the Pulvis temperans of Ph. Germ.

Dose, ten to thirty grains.

R. Nitrate of potassium,
Marsh mallow root,
each, one part.
Liquorice root, two parts.
Gum Arabic,
Milk sugar, each, two parts.
Mix the powders thoroughly. Poudre

Mix the powders thoroughly. Poudre tempérante gommeuse. Paris Codex.

R. Sulphate of potassium,
Nitrate of potassium,
each,
Cinnabar,
Rub into powder.
Poudre tempérante de
Stahl.
Paris Codex.

# Powder of Nitrate of Potassium and Squill.

R. Nitrate of potassium, fifteen grs.
Powdered squill,
pimento,

each, ten grains.

Mix. Dose, ten grains, two to three times a day, as a diuretic.

Swediaur.

# Powder of Nitrate of Potassium and Camphor.

R. Nitrate of potassium, ten grains.
Camphor, four to eight grains.
Gum Arabic, twenty-four grains.
Mix, and triturate well; one-third to one-half at a dose.

Foy.

### Pills of Nitrate of Potassium.

R. Nitrate of potassium, six drachms. Powdered gum Arabic,

three drachms.

" liquorice root, marsh mallow,

each, three ounces.
Simple syrup, sufficient.
Mix, and make pills of five grains. In inflammation of the urethra and dysuria; five or six, three times a day.

Foy.

# Pills of Nitrate of Potassium and Camphor.

R. Nitrate of potassium, four parts. Camphor, Conserve of roses, each, two parts. Mix, and make pills of four grains. Two to ten a day, in gonorrhœa. Guibourt.

#### Nitrated Emulsion.

R. Nitrate of potassium, two drms. Sugar of milk, one ounce. Extract of henbane, half a scruple. Emulsion of almonds, one pound. Mix, and dissolve. A spoonful every hour, in gonorrhœa. Phæbus.

### Cooling Lotion of Nitrate of Potassium.

R. Nitrate of potassium, Sal ammoniac, each, one part. Water, forty-eight parts. Dissolve, and add

Vinegar, four parts. As a lotion and application, by means of compresses, to contusions and ecchymoses. Hep. Ph.

# Nitrate of Potassium Gargle.

R. Nitrate of potassium,

seven drachms. Barley water, fourteen fl. ounces. Oxymel, one fl. ounce and a half. Mix. As a gargle, in inflammatory sore throat. Ainslie.

# Mixture of Nitrate of Potassium.

R. Nitrate of potassium, eight grains. Tincture of digitalis,

fifteen to twenty drops. ten fl. drachms. Water, Sweet spirit of nitre, Syrup of roses,

half a fl. drachm. each, Mix. To be taken twice a day, as a diuretic. Burke.

R. Nitrate of potassium,

ninety grains. Mucilage of acacia, two fl. ounces. Antimonial wine, forty minims. Syrup of orange-peel,

half a fl. ounce. four fl. ounces. Mix. One fl. ounce, three times a day, in remittent fever, with hot skin. Ainslie.

R. Nitrate of potassium,

eight to ten grains. Water, eleven fl. ounces. Solution of tartar emetic,

Simple syrup, Sweet spirit of nitre, half a fl. drachm. each, Mix. To be taken twice a day, as a diapho-

R. Extract of chamomile,

one drachm.

Nitrate of potassium,

half an ounce.

Chamomile water, four fl. ounces. Mix. A spoonful every two or three hours, as an antispasmodic. Radius.

R. Nitrate of potassium,

half an ounce. Barley water, one pound. Syrup of marsh mallow,

six ounces. Oil of almonds, four ounces. Mix. A glassful every four hours, in dysury and strangury. Cadet.

R. Nitrate of potassium,

two drachms.

Decoction of asparagus,

two pounds. Oxymel of squill, half an ounce. Mix. To be taken in divided doses, as a

R. Juniper berries, bruised, two ounces. Boiling water, one pint.

When cold, strain, and add Nitrate of potassium,

diuretic.

two drachms. Syrup of ginger, one fl. ounce. Dose, one ounce to an ounce and a half, every three or four hours, in dropsy.

Hartman.

Nitrated Paper.

Imbue paper with a solution of nitrate of potassium in four parts of water, and Ph. Germ. The fumes of the burning paper for inhalation in asthma, etc.

# POTASSII OXALAS.

#### OXALATE OF POTASSIUM.

The article usually sold as oxalate of potassium, salt of sorrel, etc., is the quadroxa-late of potassium. It is not much used in medicine, but is employed in the arts, to remove ink and iron stains from linen and fifteen drops. cotton; to bleach the straw for bonnets, etc.

R. Oxalic acid, one part. Carbonate of potassium,

sufficient

to saturate; add to the solution three parts more of the acid; evaporate, and crystallize. *Cooley*.

#### Powder of Oxalate of Potassium.

R. Oxalate of potassium,

twenty grains.

Tartrate of potassium, Sulphate of potassium,

each, one drachm.
Scammony, fifteen grains.
Red saunders, ten grains.

Mix. To be taken in the morning, in intermittent fevers. Two doses are stated to be sufficient. Giordano.

### Lozenges of Oxalate of Potassium.

R. Oxalate of potassium,

one drachm and a half.
White sugar, eight ounces.
Gum tragaeanth,
Lemon water,
Oil of lemon, eight drops.

Mix, and make lozenges of twelve grains.

Guibourt.

#### POTASSII PERMANGANAS.

PERMANGANATE OF POTASSIUM.

R. Potassa, five ounces. Black oxide of manganese,

four ounces.

Chlorate of potassium,

three ounces and a half.
Water, fifty ounces.
Diluted sulphuric acid, sufficient.

Powder the chlorate and mix with the manganese and with the potassa previously dissolved in four ounces of water. Evaporate to dryness, powder, and in a crucible heat to dull redness for an hour. Cool, powder, boil with thirty ounces of water, decant the clear solution, repeat the boiling and decantation, neutralize the united liquids accurately with sulphuric acid, evaporate until a pellicle forms, and crystallize. Drain the crystals, boil with six ounces of water, strain through asbestos, crystallize, drain, and dry the crystals under a bell-glass over sulphuric acid. Brit. Ph.

It has been recommended in acute rheumatism, diabetes, etc., in doses of one to three grains in solution largely diluted; but is mostly employed externally as a mild escharotic and oxidizer. It is an active deodorizer, but seems to possess no anti-

septic powers.

# Solution of Permanganate of Potassium.

R. Permanganate of potassium,

eighty grains.

Distilled water, twenty ounces.

Dissolve. Brit. Ph.

The solution of *U. S. Ph.* is of the same strength.

R. Permanganate of potassium,

eighty grains.

Water, ten ounces.

Dissolve. Condy's disinfecting fluid.

Squire.

# Disinfecting Powder.

R. Permanganate of potassium,
Carbonate of calcium,
Starch,

equal
parts.

Mix.

Demarquay.

# POTASSII SILICAS.

SILICATE OF POTASSIUM.

R. Powdered quartz or flint, one part.
Carbonate of potassium, two parts.
Mix, and fuse in a crucible; when cool, dissolve in water; filter, and evaporate to dryness.

Ure.

#### Solution of Silicate of Potassium.

R. Silicate of potassium,

ten to fifteen grains.

Distilled water, six to eight fl. ounces.

Dissolve. To be taken twice a day, to remove gouty concretions. Ure.

#### Soluble Glass.

R. Carbonate of potassium,

seventy parts.

Carbonate of sodium,

Silex,

fifty-four parts. one hundred and ninety-two parts.

Melt together. The resulting glass is soluble in boiling water. The solution forms a fine, transparent, elastic varnish.

Döbereiner.

### POTASSII SULPHAS.

SULPHATE OF POTASSIUM.

R. Residuum of the preparation of nitric acid, two pounds. Boiling water, two gallons. Expel the excess of acid by heating the salt in a crucible; boil the remainder in the water, till a pellicle forms; filter the solution; set aside to crystallize; pour off the water, and dry the crystals. Lond. Ph. 1836.

A mild cathartic, in doses of one drachm; but in doses of four or five drachms it acts

as an irritant.

# Compound Saline Powder.

R. Sulphate of potassium,

three ounces.

Chloride of sodium, Sulphate of magnesium,

each, four ounces.

Dry the salts separately, with a gentle heat; then triturate them well together, and preserve in glass vessels. Ed. Ph.

Aperient in doses of two or three drachms, dissolved in half a pint of carbonic acid water. To be taken before breakfast.

R. Sulphate of potassium, two parts. Nitrate of potassium, one part. Powder, and mix. Pulvis temperans of some pharmacopæias. In febrile conditions.

#### Powder of Sulphate of Potassium and Rhubarb.

R. Sulphate of potassium,

one drachm. Powdered rhubarb, half a drachm. chamomile, one drachm.

Mix, and divide into six powders. One, twice a day, in sugar and water, in dyspepsia and torpor of the bowels.

R. Sulphate of potassium,

two ounces. Powdered rhubarb, one ounce. half an ounce. Sal ammoniac, Mix. Half a drachm, in same cases as the last. Pfaff.

#### Pills of Sulphate of Potassium.

R. Sulphate of potassium,

two drachms. Powdered rhubarb, two scruples. Oil of fennel, six drops. Extract of blessed thistle.

sufficient.

Mix, and make sixty pills. Dose, five or six a day, as a purgative. Phæbus.

# Mixture with Sulphate of Potassium.

R. Centaury.

Water, sufficient to obtain three pints of infusion; add Sulphate of potassium, Honey, each, two ounces. Three wineglassfuls a day, in fevers. Swediaur.

# POTASSII SULPHO-CYA-NIDUM.

SULPHO-CYANIDE OF POTASSIUM.

R. Ferro-cyanide of potassium, three parts. Sulphur, one part. Pack in a crucible, heat to redness for an hour, treat with alcohol, and evaporate to Van Mons. crystallization.

R. Prussian blue, three parts. Sulphuret of potassium, one part. Put the mixture into a covered crucible, and heat to a dull redness for half an hour; treat with alcohol, filter the solution, evaporate, and crystallize. Van Mons.

R. Digest an aqueous solution of cyanide of potassium with sulphur, of which it will take up one-third.

Filter, and evaporate.

Beasley.

# POTASSII SULPHURETUM.

SULPHURET OF POTASSIUM. (LIVER OF SULPHUR.)

R. Sulphur, one ounce. Carbonate of potassium,

two ounces.

Rub the carbonate of potassium, previously dried, with the sulphur; melt the mixture in a covered crucible over the fire; then pour it out, and, when cold, put it in a bottle, which is to be well stopped. U. S. Ph.

A stimulant expectorant and diaphoretic, in small doses, poisonous in large; used externally in many cutaneous diseases. Dose, from two to ten grains, several times a day.

# Hyposulphited Sulphuret of Potassium.

R. Sublimed sulphur, one part. Solution of potassium, three parts. Mix, and heat on a sand-bath, until it marks 390 B. Guibourt.

It consists of three parts of sulphuret, Chamomile, each, one ounce. and one of hyposulphite of potassium.

# Ferro-Sulphuret of Potassium.

R. Carbonate of potassium,

Sulphur, each, one ounce. Black oxide of iron, two drachms.

Mix, and melt in a crucible, pour out on a slab of marble, break in pieces, and keep in a well-closed bottle. Dose, three to four grains.

Ferrara Ph.

# Sulphuret of Potassium and Cream of Tartar.

R. Sulphuret of potassium,

four scruples.

Cream of tartar, four drachms.

Mix, and divide into twenty-four powders.

Dose, one every four hours, in a glass of sweetened water. Said to be efficacious in mercurial salivation.

Bories.

# Bolus of Sulphuret of Potassium.

R. Sulphuret of potassium,

three grains.

Conserve of elder berries,

sufficient.

Mix. Make six boluses; one every three hours. In mercurial salivation. Brera.

R. Sulphuret of potassium, six grains.

Black oxide of iron, three grains.

Extract of quassia, ten grains.

Burnt sponge, sufficient.

Mix, and make a bolus. One, morning and evening, in goitre and glandular affections. Phæbus.

### Pills of Sulphuret of Potassium.

R. Sulphuret of potassium,

one drachm.

Extract of liquorice, sufficient.

Mix, and make thirty pills. Two to five, several times a day.

# Compound Pills of Sulphuret of Potassium.

R. Sulphuret of potassium, and make pills of two grains.

R. Sulphuret of potassium, each, one Extract of dandelion, drachm. Soap, and half a drachm. Opium, three grains.

Mix, and make pills of two grains.

Radius.

#### Electuary of Sulphuret of Potassium.

R. Butter of cacao, two drachms. Oil of almonds, half an ounce.

Melt together, and add, triturating well,

Sulphuret of potassium,

Sugar, three drachms.

As an alterative for children, in teaspoonful doses.

Phæbus.

# Syrup of Sulphuret of Potassium.

R. Sulphuret of potassium,

eight grains.

Distilled water, sixteen grains.

Dissolve, and add

Simple syrup, one ounce.

Paris Codex 1836.

A teaspoonful, for croup in children.

# Compound Syrup of Sulphuret of Potassium.

R. Sulphuret of potassium,

one ounce.

Fennel water, sixteen ounces.
Simple syrup, thirty-eight ounces.
Mix. Once much celebrated as Willis's syrup, in croup, etc.

Giordano.

#### Syrup of Hyposulphited Sulphuret of Potassium.

R. Hyposulphited sulphuret
of potassium, sixteen grains.
Simple syrup, one ounce.
Mix. Guibourt.

# Water of Sulphuret of Potassium.

R. Washed sulphur, one part. Solution of potassa, eleven parts. Boil for ten minutes, and filter. Keep in well-stopped bottles. Dub. Ph. 1826.

This is not analogous to a solution of sulphuret of potassium, as it contains much hyposulphite of potassium. Dose, ten minims to one fl. drachm, three times a day.

#### Tincture of Sulphuret of Potassium.

R. Sulphuret of potassium,

four ounces.

Diluted alcohol, sixteen ounces.

Digest for twenty-four hours, and strain.

Recommended in itch, in doses of sixty drops.

# Lotion of Sulphuret of Potassium.

R. Sulphuret of potassium,

Water, one ounce.

Dissolve. As a wash in herpetic and other cutaneous eruptions. Ellis.

R. Sulphuret of potassium, one part. fifty parts. Paris Codex. Dissolve.

#### Compound Lotion of Sulphuret of Potassium.

R. Sulphuret of potassium,

half an ounce. Soap, one ounce. Alcohol, four fl. ounces. Tincture of myrrh, half a fl. ounce. Lime water, one pint. Mix. As an application in tinea capitis.

R. Sulphuret of potassium,

one to two ounces. Water. one pint. Dissolve.

R. Muriatic acid, one to two fl. ounces. Distilled water, two pints. Mix an ounce of each solution with four ounces of warm water. As an application in psora. Alibert.

R. Sulphuret of potassium,

three drachms. one drachm and a half. Soap, seven and a half Lime water, fl. ounces. Diluted alcohol, two fl. ounces.

Known as Barlow's lotion, and used in various cutaneous diseases.

R. Sulphuret of potassium,

two drachms. two drachms and a half. Lime water, seven fl. ounces. one fl. drachm. Alcohol, Mix. Biett.

As a lotion in porrigo.

R. Sulphuret of potassium,

four ounces. Water, one pint and a half. Sulphuric acid, half an ounce. Mix. As a lotion in itch, to be used morning and evening. Dupuytren.

R. Sulphuret of potassium,

one drachm. Almond oil, one ounce. Camphor, twenty grains. Mix. Valentin.

# Sulphuret of Potassium-Bath.

R. Sulphuret of potassium,

four ounces. twelve ounces. Water, Dissolve, and mix with the water of a bath.

R. Sulphuret of potassium,

one ounce. Common salt, two ounces. Carbonate of sodium, four drms. Leaves of sage,

one to two handfuls. six quarts. Water, Boil for twenty-four hours. In fomentations, douches, etc., in spina ventosa and St. Marie. scrofula.

R. Sulphuret of potassium,

four ounces. Water, two hundred pints.

Mix, and add

Glue. two pounds. dissolved in ten pints of boiling water.

# Injection of Sulphuret of Potassium.

R. Sulphuret of potassium,

one drachm. Distilled water, eight to twelve ounces.

Dissolve. In gonorrhœa. Wedekind.

# Mixture of Sulphuret of Potassium.

R. Sulphuret of potassium,

one drachm and a half. Bicarbonate of potassium,

ten grains.

Oil of peppermint,

one to two drops. Syrup of orange-peel, two ounces. Mucilage, one ounce.

Mix. A teaspoonful, every two hours, as Lockstaedt. an alterative, in scrofula.

R. Sulphuret of potassium,

one scruple.

Carbonate of potassium,

ten grains. Peppermint water, two ounces. Syrup of saffron, one ounce. Mix. A spoonful, every two hours, in cu-Phæbus. taneous diseases.

R. Sulphuret of potassium,

one scruple. one ounce. Syrup of cinnamon, two drachms. Mix. To be taken in three doses, in mercurial diseases. Dzondi.

R. Sulphuret of potassium,

one scruple. Kermes mineral, ten grains. Syrup of seneka, two ounces. Anisated ammonia, one scruple.

Mix. A spoonful every hour, in croup. Hagen.

R. Sulphuret of potassium, Sugar, each, one drachm. Water, one pint. Mix. Has been advised as an antidote in poisoning by arsenic. Augustin.

# Ointment of Sulphuret of Potassium.

B. Sulphuret of potassium,

thirty grains. Prepared lard, one ounce. Mix thoroughly. Brit. Ph.

R. Sulphuret of potassium, Carbonate of sodium, three drachms. each. Lard, three ounces. Mix. As an application in tinea capitis.

Alibert.

R. Soap, one pound. Water, one ounce.

Soften by means of a water-bath, and add Sulphuret of potassium,

three ounces. Oil of poppy-seed, two pounds. thyme, one drachm. Mix well. Jadelot.

R. Powdered soap, two ounces. Sulphuret of potassium,

Water, each, one ounce.

Mix well, and add, gradually,

Olive oil, five ounces. This liniment alters rapidly when exposed to the air. Béral.

### Compound Plaster of Sulphuret of Potassium.

R. Sulphuret of potassium, Powdered hemlock, two drachms. each, Camphor, Turpentine, each, four drachms. Soap, half a drachm. Yellow wax, one ounce. Simple plaster, four ounces.

Melt and mix well. As a dressing to tumefied lymphatic glands.

# Soap of Sulphuret of Potassium.

R. Sulphuret of potassium, one part. Boiling water, two parts.

Dissolve, and add

Yellow wax, one part.

Evaporate, stirring continually.

Bavar. Ph.

# POTASSII TARTRAS.

TARTRATE OF POTASSIUM.

R. Pure carbonate of

potassium, sixteen troyounces. Cream of tartar, in fine

powder, sufficient. Boiling water, eight pints.

Dissolve the carbonate in the water, add gradually the cream of tartar until neutralized, and boil. Filter the liquid, evaporate till a pellicle forms, and set aside to crystallize. Pour off the liquid, and having dried the crystals on bibulous paper, keep them in closely-stopped bottles. U. S. Ph.

A mild, cooling purgative, in doses from

a drachm to an ounce.

# Powder of Tartrate of Potassium and Rhubarb.

R. Tartrate of potassium,

two drachms.

Powdered rhubarb, orange-peel,

each, one drachm. Oil of cajeput, one scruple. Mix. A teaspoonful, three times a day, in obstructions of the portal system.

St. Marie.

#### Mixture of Tartrate of Potassium.

R. Tartrate of potassium,

six to eight drachms. Infusion of chicory, twenty ounces. Manna, two ounces.

Mix. To be taken in the morning, in four portions, every day or every second day, for a fortnight, in chronic affections of the

R. Tartrate of potassium,

one ounce.

Extract of soapwort, half an ounce. Balm water, six ounces.

Mix. Two spoonfuls, night and morning, in all forms of hemorrhoidal disease.

Radius.

B. Tartrate of potassium,

half an ounce.
Extract of centaury, two drachms.
Water, eight fl. ounces.
Mix. Two spoonfuls every hour or two, in obstructions of the liver. Swediaur.

R. Tartrate of potassium,

one drachm.

Nitrate of potassium,

half a drachm.

Manna, one ounce. Decoction of dandelion,

six fl. ounces.

Mix. Two spoonfuls every two hours, in dropsy consecutive to scarlet fever.

Phœbus.

# PRINOS.

# BLACK ALDER.

This, which is also known as Winterberry, is an indigenous shrub, found in most parts of the country, principally in low, moist situations; flowering in June, and bearing numerous scarlet berries, which remain on the bush after the fall of the leaves.

Sex. Syst. Hexand. monog. Nat. Syst. Aqui-

foliaceæ.

Linn. Sp. Pl. 471. Griffith, Med. Bot. 434. The officinal portion is the bark, which, when dried for use, is in slender pieces, of a greenish-white color internally, and of an ash-gray, mixed with brown, externally; brittle, inodorous, and of a bitter, astringent taste. It is tonic and astringent, and has been used with success in diarrhæa, intermittent fevers, etc. The dose is from thirty grains to a drachm, three or four times a day.

#### Decoction of Black Alder.

B. Black alder, two ounces.
Boiling water, three pints.
Boil down to a quart, and strain. One gill every two hours.

W. P. C. Barton.

# PRUNUM.

#### PRUNES.

Prunes are the dried fruit of various varieties of *Prunus domestica*, or cultivated Plum tree. They are principally derived from the south of France, and are much used as an article of dessert; but are also employed in medicine, as a laxative, either alone or in combination, especially with senna, as in the confection of senna, etc., in the form of pulp.

# Pulp of Prunes.

R. Prunes, at will. Soften the prunes in the vapor of boiling water, and having removed the stones, beat the remainder in a mortar, and pass it through a hair sieve. U. S. Ph. 1850.

# PRUNUS VIRGINIANA.

#### WILD-CHERRY BARK.

This is the bark of Cerasus serotina, though the U.S. Ph. still retains the old name of the tree as the designation for the medicine. The Cerasus serotina is found in most parts of the United States, and in some situations attains a very large size.

Sex. Syst. Icosand. monog. Nat. Syst.

Drupaceæ.

De Condelle, Prod. ii. 540. Griffith, Med.

Bot. 288.

The bark of both the root and branches is used, but the former is to be preferred. As dried for use, it is in pieces of various sizes, deprived of epidermis; of a reddishbrown color, and readily pulverized; when fresh it has an odor of bitter almonds, which is much diminished on drying, but reappears on maceration in water; the taste is bitter and aromatic. It is tonic, but it also exercises a sedative action on the circulatory and nervous systems, and is much used in a variety of diseases. The dose in powder is half a drachm to two drachms.

# Infusion of Wild-Cherry Bark.

R. Wild-cherry bark, in powder,

No. 60, half a troyounce. Cold water, sufficient.

Obtain by percolation one pint. U. S. Ph. Dose, two fl. ounces, three or four times a day.

R. Powdered wild-cherry

bark, one ounce.
Orange-peel, two drachms.
Water, one pint.

Macerate the bark for six hours, and then add the orange-peel. Dose, a wineglassful.

Ellis.

# Syrup of Wild-Cherry Bark.

R. Wild-cherry bark, in powder, No. 60, five ounces. Water, sufficient. Sugar, in coarse powder,

twenty-eight troyounces.

Moisten the bark thoroughly with water, macerate in a close vessel for twenty-four hours, pack firmly in a glass percolator, and displace slowly one pint; transfer to a bottle, add the sugar, and dissolve by agitation. Dose, a tablespoonful. U. S. Ph.

Fluid Extract of Wild-Cherry.

R. Wild-cherry, in powder,

No. 60, sixteen troyounces.
Glycerin, four fl. ounces.
Water, eight fl. ounces.
Stronger alcohol, sufficient.

Mix glycerin and water, moisten the powder with half a pint of the mixture, macerate for four days in a close vessel; then displace, using first the remaining mixture, afterwards stronger alcohol, until thirty-two fl. ounces have been obtained. Reserve the first twelve fl. ounces, evaporate the remainder to four fl. ounces, filter, rinse the filter with a little alcohol to preserve the measure, and mix with the reserved portion.

Very astringent and bitter, it has little sedative action. Dose, thirty to sixty minims.

# PYRETHRUM.

# PELLITORY.

This is the root of Anacyclus pyrethrum, a small plant with perennial roots and annual stems; a native of the countries bordering on the Mediterranean, hence it is also called Roman or Spanish pellitory.

Sex. Syst. Syngen. super. Nat. Syst. As-

teraceæ.

De Candolle, Prod. vi. 15. Griffith, Med.

Bot. 402.

The dried root is about the size of the little finger, with a thick, brown bark, marked with black, shining points; it is inodorous; its taste is at first slight, but afterwards extremely acrid, leaving a burning, pricking sensation in the mouth. It is a powerful local irritant, and is principally used as a masticatory and sialagogue; but has also been employed in intermittents, palsies, etc.

Some pharmacopæias recognize the German pellitory, which is the root of Anacyclus officinarum, a plant indigenous to Central Europe. It resembles the former in appearance, and has the same properties, but is

rather less acrid.

#### Lozenges of Pellitory.

R. Powdered pellitory, mastich,

each, one drachm.
Mucilage of tragacanth, sufficient.
Mix, and make lozenges of twelve grains each. As a masticatory in toothache.

Foy.

#### Tincture of Pellitory.

R. Pellitory, one part.
Alcohol, sufficient.
Displace five parts.

Paris Codex.

R. Pellitory, four ounces.
Rectified spirit, sufficient.
Obtain by maceration and displacement twenty fl. ounces of tincture.

Brit. Ph.

# Compound Tincture of Pellitory.

R. Pellitory, four drachms.
Camphor, three drachms.
Opium, one drachm.
Oil of cloves, Alcohol, six fl. ounces.

Macerate for eight days, and filter. As a sialagogue in toothache. Brande.

R. Pellitory, one ounce.
Para cress flowers, four ounces.
Italian elecampane leaves,

one ounce.

Alcohol, eight fl. ounces.

Macerate for fifteen days, express, and filter. Much celebrated as an odontalgic, under the name of *Paraguay Roux*.

Gray.

# Liniment of Pellitory.

R. Tincture of pellitory,

six fl. drachms. Camphorated oil, half a fl. ounce. Water of ammonia,

half a fl. drachm.

Mix. As a lotion for chilblains and in rheumatic pains. Radius.

#### Plaster of Pellitory.

R. Yellow wax, three ounces.
Turpentine, two ounces and a half.
Melt together, and add

Ammoniae,
Sagapenum,
Galbanum,
Powdered pellitory,
" mustard,

each, one ounce.

Mix well. As a rubefacient application in rheumatism, etc. Cadet.

#### Extract of Pellitory.

R. Pellitory, ground, one pound.
Alcohol, two pints.
Ether, half a pint.

tory.

one part.
sufficient.

Paris Codex.

Mix the ether with a pint of the alcohol, pour it gradually on the powder, and put it in a displacer; when it ceases to drop, add the remainder of the alcohol, and finally sufficient diluted alcohol to displace two pints and a half in all. Allow the

ethero-alcoholic tincture to evaporate spontaneously, or with a moderate heat, until a | the nerves of teeth, previous to plugging, soft extract is obtained.

Employed to destroy the sensibility of or for toothache. W. Procter.

# QUASSIA.

# QUASSIA.

Under the name of Quassia, the wood of two different plants has been used-that of Q. amara, and of Simaruba excelsa, the latter being alone recognized in the U.S. Ph. This is a large tree found in many of the West India Islands, and known as the bitter ash. The former is a large shrub or small tree, and is indigenous to Surinam.

Sex. Syst. Pentand. monog. Nat. Syst. Simarubaceæ.

Lindley, Flor. Med. 208. Griffith, Med.

Bot. (Picræna), 200.

It is found in commerce, in billets of various sizes, having a smooth, brittle bark. The wood is white, but becomes yellowish on exposure to the air; it has scarcely any smell, but possesses an intense, permanent bitter taste. It is a pure and powerful tonic, and is much used for that purpose. It is seldom given in substance.

# Infusion of Quassia.

R. Rasped quassia, two drachms. Cold water, one pint. Macerate for twelve hours, and strain.

U. S. Ph. Brit. Ph. uses sixty grains to ten fl.

ounces of cold water. Dose, two fl. ounces, three or four times

a day.

# Compound Infusion of Quassia.

Virginia snakeroot, each, half Orange-peel, Boiling water, two pints. Infuse and strain. A teacupful, cold, three Ellis. times a day.

#### Extract of Quassia.

R. Quassia, in powder, No. 50, one pound. sufficient. Water, Exhaust by percolation, boil to three-fourths of the bulk of the infusion, strain, and by a water-bath evaporate to the

proper consistence. U. S. Ph. and Brit. Ph.

Ph. Germ. exhausts the wood by boiling with water.

Dose, three to five grains. A very efficient bitter tonic.

# Tincture of Quassia.

R. Quassia, in powder,

No. 50, two troyounces. Diluted alcohol, sufficient.

Obtain by displacement two pints.

U. S. Ph.

Dose, two fl. drachms.

Brit. Ph. directs three-fourths of one ounce of quassia to twenty fl. ounces of tincture.

# Tincture of Quassia and Cinchona.

R. Cinchona, Quassia, each, Colombo, in coarse powder, Gentian, half an ounce. Serpentaria, Chamomile,

French brandy, two pints. Macerate fourteen days, and extract by displacement. A very valuable combina-tion of bitters. Dose, one to four fl. drachms. E. Parrish.

#### Compound Tincture of Quassia.

R. Bruised cardamom,

cochineal, each,

half an ounce.

Powdered cinnamon,

Chipped quassia, each,

six drachms. Raisins, seven ounces. Diluted alcohol, two pints (imp.) Digest for seven days, strain, express residue, and filter. Dose, one or two fl. Ed. Ph. drachms.

# Wine of Quassia.

R. Rasped quassia, half an ounce. Orange-peel, two drachms. one pint and a half. Wine,

Macerate for twenty-four hours, express, | As a gargle in chronic sore throat, with Radius. half ounce, twice a day.

and filter. Dose, three fl. drachms to a fl. relaxed uvula; and as an injection in leucorrhœa.

# QUERCUS.

#### OAK BARK.

Several species of oak are recognized as officinal in the pharmacopeias, viz., the Q. alba or White oak, and Q. tinctoria or Black oak, in the U. S. Ph.; Q. pedunculata, European White oak, in the Brit. Ph. and Ph. Germ; and Q. sessilistora, European oak, in some European pharmacopæias.

Sex. Syst. Moncec. polyand. Nat. Syst. Co-

rylaceæ.

Griffith, Med. Bot. 585.

The part used is the bark; this, in all the species, is astringent and tonic, and has been used in a variety of diseases, but more generally as an external application than as an internal remedy. The dose is from thirty grains to a drachm.

The infusion of roasted acorns has been used in Europe in scrofulous affections.

# Compound Powder of Oak Bark.

R. Powdered oak bark, one scruple. Calamus,

Gentian, each, five grains. Mix. To be taken every three hours, in apyrexia of intermittents. Augustin.

#### Extract of Oak Bark.

R. Powdered oak bark, one pound. Water, one gallon.

Boil down to one-half, express, and filter. Evaporate at a heat of 200° F. until it begins to thicken, then reduce by a heat of 100° F. to the proper consistence.

Dub. Ph. 1826. The dose is from ten to forty grains.

#### Decoction of White Oak Bark.

R. White oak bark,

bruised, one troyounce. Water, sufficient.

Boil with a pint of water for half an hour, and obtain a pint of strained liquid.

U. S. Ph.

The decoction of Brit. Ph. is of about the same strength.

The dose is a wineglassful, as an astringent in chronic diarrhoa, etc.

#### Gargle of Oak Bark.

R. Decoction of oak bark, one pint.

half a drachm. Dissolve. Dose, twenty to forty drops. Alum, Brandy, two fl. ounces. 31

# Injection of Oak Bark.

R. Decoction of oak

bark, four fl. ounces. Powdered galls, thirty grains. Tincture of catechu,

two fl. drachms.

Mix. Useful as a palliative in cancer of the uterus. Ashwell.

# Cataplasm of Oak Bark.

R. Powdered oak bark,) each, catechu, ounce. Barley meal, Water, sufficient.

Boil to the proper consistence. Foy.

As an application in gangrene and mortification.

#### Confection of Acorns.

R. Powdered acorns, three ounces.

red coral,

catechu, each,

one ounce and a half. Confection of dog rose, ten ounces. Syrup of red roses, sufficient.

One drachm every four hours, in chronic diarrhœa. Bories.

#### Acorn Coffee.

R. Acorns, roasted, six drachms. Coffee, roasted, two drachms. Water. one pint.

Boil for a short time, and strain. Two or three cupfuls a day, in scrofula and rachitis. Augustin.

# QUINIA.

# QUININE .- QUINIA.

R. Sulphate of quinia, one part. Boiling water, thirty parts. Dissolve. Add water of ammonia sufficient to precipitate the quinia, wash the precipitate in distilled water, and dry it.

#### Tincture of Quiria.

R. Quinia, one part. Alcohol, seven parts.

Béral.

# Ethereal Solution of Quinia.

R. Sulphate of quinia, dried at 212°, six drachms. Stronger ether, sufficient.

Dissolve the quinia in one pint of water, with the aid of diluted sulphuric acid; precipitate with ammonia water, avoiding an excess, agitate with fifteen fl. ounces of the ether to dissolve the quinia, separate the ethereal solution, evaporate at a moderate heat to two and a half fl. ounces, and add stronger ether so that five minims of the solution shall leave on evaporation exactly one grain of quinia.

Ch. Rice.

For hypodermic injections.

# Impure Quinia.

R. Yellow bark, one hundred parts.

Muriatic acid, five parts.

Water, five hundred parts.

Boil, decant, and repeat process three times with the same proportions of acid and water; unite decoctions, precipitate with milk of lime, wash and dry the precipitate, treat it several times with boiling alcohol, mix, and filter the solutions, and distil off the spirit.

Trousseau.

This is said to be as active as the sulphate, and to be less unpleasant to the taste. It is given in the same doses.

### Tincture of Impure Quinia.

R. Impure quinia, one ounce.
Alcohol,
Distilled water, each, twelve
fl. ounces.

Mix. Piorry.

Dose, a tablespoonful.

### Amorphous Quinia, or Chinoidin.

R. Mother waters of
sulphate of quinia,
Solution of carbonate
of potassium,
at will.
sufficient

to precipitate. Wash and dry this precipitate; dissolve in sulphuric ether, decant, and evaporate by a gentle heat. Neligan.

# Tincture of Chinoidin.

R. Chinoidin, two parts.
Alcohol, seventeen parts.
Muriatic acid, one part.
Dissolve and filter.

Ph. Germ.

# QUINIÆ ACETAS.

ACETATE OF QUINIA.

R. Quinia, two parts.
Distilled water, three parts.

Heat, and add as much acetic acid as will dissolve the quinia, and render the solution somewhat acid. Filter whilst boiling, and set aside to crystallize. Cottereau.

A more ready way to prepare it is, by mixing hot solutions of sulphate of quinia and acetate of potassium or sodium, when, on cooling, acetate of quinia will crystallize.

Acts like the other salts of quinia, and is in no way superior to them; owing to its sparing solubility in water, it has very little taste when taken in form of powder. Dose, one to ten grains, according to circumstances.

# QUINIÆ ARSENIAS.

ARSENIATE OF QUINIA.

R. Arsenic acid, one drachm and a half.
Distilled water, six fl. ounces.
Quinia, five drachms.

Boil till solution takes place. Filter, let crystallize, and purify by recrystallization. In intermittents. Dose, one-tenth to one-fourth of a grain.

Bourieres.

# QUINIÆ ARSENIS.

ARSENITE OF QUINIA.

R. Sulphate of quinia,

five hundred grains.

Water, acidulated with sulphuric

acid, sufficient to dissolve.

Precipitate by solution of ammonia; collect, wash, and press the precipitate. Dissolve it in eight fl. ounces of alcohol, and add seventy-two grains of arsenious acid, heat together, and filter. The arsenite crystallizes on cooling.

Soubeiran.

#### Di-arsenite of Quinia.

R. Arsenious acid, ten grains.
Carbonate of potassium, five grs.
Distilled water, five fl. drachms.
Boil for half an hour, adding water to make up the loss by evaporation, so that each fl. drachm may contain two grains of arsenic.

Add

Sulphate of quinia, two scruples, previously dissolved in boiling water. Collect the precipitate on a filter, wash and dry it.

one part. Dose, one-third of a grain, in chronic Ph. Germ. cutaneous affections. Kingdon.

# QUINIÆ BISULPHAS.

BISULPHATE (ACID SULPHATE) OF QUINIA.

R. Sulphate of quinia, one ounce. Distilled water, twelve ounces. Dissolve with the aid of diluted sulphuric

acid, evaporate, and crystallize. Used like the sulphate; it dissolves in rather less than ten parts of water.

# QUINIÆ CITRAS.

CITRATE OF QUINIA.

R. Quinia, two parts. Distilled water, three parts.

Heat, and add sufficient citric acid to acidulate the mixture; when a perfect solution is effected, filter, and set aside to crystallize.

Magendie. The dose is the same as that of the sulphate; it is used in similar cases.

# Syrup of Citrate of Quinia.

R. Acid citrate of quinia,

thirty-six grains. Simple syrup, one pint. Mix. Half fl. ounce to one fl. ounce, in the twenty-four hours. Magendie.

# QUINIÆ ET FERRI CITRAS.

CITRATE OF QUINIA AND IRON.

(See Ferri et Quiniæ Citras, page 287.)

# QUINIÆ FERROCYANAS.

FERROCYANATE OF QUINIA.

R. Sulphate of quinia, one part. Ferrocyanide of potassium,

three parts. Boiling distilled water, sufficient. Dissolve the salts separately in the water, mix the solutions, boil for a few minutes, then let cool; separate the resin-like compound, and wash it with a little water. Dissolve it in boiling alcohol, and let crystallize. Dorvault.

Said to be more efficacious than any other salt of quinia. Dose, about the same as

the sulphate.

#### Mixture of Perrocyanate of Quinia.

R. Ferrocyanate of quinia, four grs. Alcohol. one fl. drachm. Dissolve, and add

Camphor water, seven fl. drachms.

To be taken as required, shaking the vial. Donovan.

# Pills of Ferrocyanate of Quinia.

R. Ferrocyanate of quinia,

twenty-four grains.

Mucilage of gum Arabic, sufficient. Mix, and make twelve pills. Two for a Donovan.

# QUINIÆ HYDRIODAS. HYDRIODATE OF QUINIA.

Iodide of Quinia.

R. Add, by drops, a solution of twenty-four parts of iodide of potassium, in eight parts of water, to a strong solution of twenty parts of sulphate of quinia; wash the precipitate quickly, and dry in the shade.

Righini. In obstinate intermittents and scrofulous

affections.

# Bin-Iodide of Quinia.

R. Sulphate of quinia, one part. Dissolve in boiling water, and add

Iodide of potassium, two parts, dissolved in water. Evaporate on a sandbath to one-third, and allow the residue to cool; separate and preserve the resinous

Used in scrofulous enlargements of the glands. Dose, half a grain to one grain.

Kingdon.

# QUINIÆ ET FERRI IODIDUM. IODIDE OF QUINIA AND IRON.

R. Pour a strong solution of acid sulphate of quinia into a fresh solution of iodide of iron; collect the precipitate; dry by pressing between blotting paper, and keep it from the air.

Bouchardat.

# QUINIÆ HYDRIODAS IODURETA.

IODURETTED HYDRIODATE OF QUINIA. R. Add a solution of iodide of iron, containing a slight excess of

iodine, to an acid solution of quinia. Treat the precipitate with boiling alcohol, and filter whilst hot, and set aside to crystallize.

Bouchardat.

These preparations are useful where an alterative and tonic are required.

# QUINIÆ ET HYDRARGYRI CHLORIDUM.

CHLORIDE OF QUINIA AND MERCURY.

R. Corrosive sublimate, one part.

Muriate of quinia, three parts.

Dissolve separately in the smallest quantity of water; mix the solutions; collect the precipitate, and dry by a gentle heat.

McDermott.

# Pills of Chloride of Quinia and Mercury.

R. Double chloride of quinia and mercury, fifteen grains.
Opium, six grains.
Crumb of bread, sufficient.
Mix, and form thirty pills. One, three times a day, to produce salivation.

Hamilton.

# QUINIÆ KINAS.

KINATE OF QUINIA.

R. Alcoholic solution of
sulphate of quinia,
Aqueous solution of
kinate of calcium,
sufficient

kinate of calcium, sufficient to precipitate; filter, evaporate, redissolve, and crystallize. Magendie.

#### Pills of Kinate of Quinia.

R. Kinate of quinia,
Powdered black pepper,
Extract of wormwood,
Mix, and make sixty pills. Three, every
two or three hours, in obstinate intermittents.

Ronander.

# QUINIÆ LACTAS.

LACTATE OF QUINIA.

R. Lactic acid, at will.

Quinia, sufficient
to saturate; leave the solution to evaporate
spontaneously, in a shallow vessel, in a
warm room, till crystals are formed.

Dose, three to ten grains. Bouchardat

# Pills of Lactate of Quinia.

R. Lactate of quinia, half a drachm.
Extract of juniper, sufficient.
Mix, and make twenty pills. Two to six a day in intermittents.

Bouchardat.

# Mixture of Lactate of Quinia.

R. Lactate of quinia, seven grains.

Mint water, five fl. drachms.

Syrup of cloves, one fl. ounce.

Water, three and a half fl. ounces.

Mix. To be taken in divided doses during the apyrexia of intermittents.

Bouchardat.

# Syrup of Lactate of Quinia.

R. Lactate of quinia, fifteen grains. Dissolve in

Water, one fl. ounce.

Sugar, two ounces.

Form syrup. A teaspoonful, in the intermittents of children.

Bouchardat.

# QUINIÆ MURIAS.

MURIATE OF QUINIA.

R. Sulphate of quinia,

one ounce and a half.
Chloride of barium, half an ounce.
Dissolve separately, in boiling distilled water; mix the solutions, filter, and evaporate to crystallization.

Guibourt.

R. Chloride of barium, five drachms. Boiling water, one pint.

Dissolve, and gradually add

Sulphate of quinia, two ounces. Boil for a few minutes, filter whilst hot, and dry the crystals. Prus. Ph. 1846.

R. Diluted muriatic acid, at will Quinia, sufficient to saturate; evaporate, and crystallize. Dose, from half a grain to a grain.

Cottereau.

# Mixture of Muriate of Quinia.

R. Muriate of quinia, twelve grains.
Diluted muriatic acid,

Distilled water, seven fl. ounces.
Syrup of orange flowers,

one fl. ounce.

Bouchardat. Mix. Dose, one fluidounce. Neligan.

R. Muriate of quinia, five fl. ounces. Fennel water, one fl. drachm. Muriatic ether, half an ounce. Sugar,

Mix. A tablespoonful every two hours. Radius.

R. Muriate of quinia, one scruple. Peppermint water, half a fl. ounce. Mix. Twenty to sixty drops, every two hours, in intermittents of children.

Radius.

# QUINIÆ NITRAS.

NITRATE OF QUINIA.

R. Diluted nitric acid, at will. Quinia, sufficient to saturate; boil with animal charcoal, filter, Taddei. evaporate, and let crystallize.

# QUINIÆ PHOSPHAS.

PHOSPHATE OF QUINIA.

R. Quinia, two parts. Water. three parts. Boil, and add

Phosphoric acid, sufficient to saturate; filter while hot, and let crystal-Turin Ph.

# QUINIÆ SULPHAS. SULPHATE OF QUINIA.

R. Yellow bark, in coarse powder, forty-eight troyounces. Muriatic acid, three fl. ounces and a half. Lime, in powder, five troyounces. Water, Sulphuric acid, each, Alcohol, sufficient. Animal charcoal,

Boil the bark in thirteen pints of water, with one-third of the muriatic acid, and strain through linen. Repeat this process twice. Mix the decoctions, and, whilst hot, gradually add the lime, mixed with two pints of water, stirring constantly, till the quinia is precipitated. Wash precipitate with distilled water, press, dry, and digest in boiling alcohol; decant, and repeat till alcohol is no longer rendered bitter. Mix the liquors, and distil off the alcohol, till a brown, viscid mass remains; add to this half a gallon of distilled water, heat to boiling, and add as much sulphuric acid as will dissolve the impure quinia; then add one

eight grains. ounce and a half of animal charcoal, boil for two minutes, filter while hot, and set aside to crystallize. If the solution be entirely neutral, acidulate slightly with sulphuric acid; if too acid, add more animal charcoal. Separate the crystals, dissolve them in boiling water a little acidulated with sulphuric acid, add a little animal charcoal, and recrystallize; place the crystals in bibulous paper, and dry by a gentle heat. Treat the mother-waters with solution of ammonia, and proceed with the precipitate as before.

# Powder of Sulphate of Quinia.

R. Sulphate of quinia,

three to twelve grains. White sugar, two drachms.

Mix, and divide into six powders.

Radius.

# Powder of Sulphate of Quinia and Tartar Emetic.

R. Sulphate of quinia, ten grains. Tartar emetic, three grains. Mix, and divide into six powders. One, every two hours, in the apyrexia of obstinate intermittents. Gola.

### Powder of Sulphate of Quinia and Soda.

R. Sulphate of quinia,

one to two grains.

Carbonate of sodium,

four to five grains.

Sugar, one scruple. Mix, and divide into six powders. One, morning and evening, in scrofulous ophthalmia. Ammon.

# Powder of Sulphate of Quinia and Tartaric Acid.

R. Tartaric acid, fifteen grains. Sulphate of quinia,

one grain and a half.

Mix, and add

Sugar,

Bicarbonate of sodium,

eighteen grains. half a drachm. Mix in water, for one dose. In the apyrexia of intermittents. Meireu.

# Powder of Sulphate of Quinia and Morphia.

R. Sulphate of quinia, two to six grains. half to morphia, one grain.

Mix, and divide into four powders.

Magendie.

### Compound Powder of Sulphate of Quinia.

R. Sulphate of quinia, half a grain. Powdered foxglove,

a quarter to one grain. Powdered fennel, six grains. Sugar of milk, ten grains. Mix. To be taken three or four times a day, in the hectic fever of phthisis.

Gunther.

R. Sulphate of quinia, three grains. Opium, one grain. Gum Arabic, Sugar, each, six grains. Make a powder. To be taken just before the paroxysm of malignant intermittents. Neumann.

two grains. R. Sulphate of quinia, one grain. iron. Powdered fennel, one scruple. Oil of chamomile, one drop. Mix. To be taken every three hours, in obstinate intermittents. Phæbus.

R. Sulphate of quinia,

quarter of a grain. Chocolate, seven grains. Sugar of milk, two grains. Mix. To be taken every three hours, in debility of the stomach. Kopp.

# Pills of Sulphate of Quinia.

R. Sulphate of quinia,

twenty-four grains.

Clarified honey, sufficient. inspissated, Mix, and divide into twenty-four pills. U. S. Ph.

Each pill contains one grain of the sulphate.

- R. Sulphate of quinia, sixty grains. Confection of hips, twenty grains. Mix. Four grains contain three grains of the sulphate. Brit. Ph.
- R. Sulphate of quinia, fifteen grains. Extract of chamomile, fifteen grs. Mix, and make six pills. To be taken during the apyrexia of intermittent fevers. Elliotson.
- R. Sulphate of quinia, twelve grains. Powdered tragacanth, one grain. Rub together, add sufficient water to form a plastic mass, and divide into six pills. E. Parrish.

R. Sulphate of quinia, twenty grains. Elixir of vitriol, fifteen drops. Drop the acid into the sulphate, and rub with a spatula until the mass assumes a pilular consistence. Make six pills. E. Parrish.

#### Pills of Sulphate of Quinia and Gentian.

R. Sulphate of quinia, one scruple. Extract of gentian, two scruples. Mix, and make twenty pills.

#### Pills of Sulphate of Quinia and Rhubarb.

R. Sulphate of quinia, ten grains. Powdered rhubarb, twenty grains. Make ten pills. One thrice daily, in urticaria. Waring.

# Compound Pills of Sulphate of Quinia.

R. Calomel, six grains. Powdered opium, three grains. Sulphate of quinia, twelve grains. sufficient.

Beat into mass, and divide into twelve pills. One, night and morning, as an alterative.

R. Blue pill mass, each, twelve Sulphate of quinia, grains. Powdered aloes, Aromatic syrup of

rhubarb, sufficient. Beat into mass, and divide into twelve pills. One, three or four times a day. This, or the foregoing combination, is suited to the condition following bilious remittent or intermittent fevers.

B. Sulphate of quinia, twelve grains. Extract of gentian, one scruple. Compound rhubarb pill, two scruples. Blue pill mass, six pills. Mix, and make twelve pills. One, three times a day. Ryan.

R. Sulphate of quinia, ten to fifteen grains. Dry phosphoric acid, two scruples. Powdered mallow root, four scruples.

Extract of centaury, sufficient. Mix, and make sixty pills. Three or four pills two or three times a day, in nervous debility with tendency to abortion.

Radius.

R. Powdered camphor, one scruple.
Sulphate of quinia, two scruples.
Pill of aloes and
myrrh, one drachm and a half.
Syrup of ginger, sufficient.
Mix, and make forty pills. One, twice a day.
Copland.

Syrup of Quinia.

R. Sulphate of quinia, eight grains.

Distilled water, one fl. drachm.

Aromatic sulphuric

acid, six drops.

Dissolve, and add to

Syrup, twenty-five drachms.

Paris Codex.

R. Sulphate of quinia,
sixteen grains.
Syrup of ginger, two fl. ounces.
Mix. Dose, a teaspoonful.

Ellis.

Syrup of Quinia and Coffee.

R. Ground roasted coffee, four ounces. Boiling water,

two pints, four fl. ounces.

Make an infusion, let cool, and add

Sugar, four pounds.

Dissolve by means of a water-bath, and add

Sulphate of quinia, one drachm, dissolved in a little water, acidulated with sulphuric acid. Bories.

Mixture of Sulphate of Quinia.

R. Sulphate of quinia, twenty grains.
Sulphuric acid, one drop.
White sugar, one drachm.
Cinnamon water, two fl. ounces and a half.

Mix. A teaspoonful every hour, in the apyrexia of intermittents. Ellis.

R. Sulphate of quinia, fifteen grains.
Tartaric acid, twenty grains.
Distilled water, four troyounces.
Mint syrup, two troyounces.
Dissolve.

Righini.

# Mixture of Sulphate of Quinia and Coffee.

R. Strong infusion of coffee,
five fl. ounces.
Sulphate of quinia, twenty-four
grains.
Sugar,
four drachms.

Ointme
R. Sulpha
Alcoho
Sulpha
to dissolve.

R. Powdered camphor, one scruple. Mix. Dose, a tablespoonful. The coffee Sulphate of quinia. two scruples.

Beasley.

# Tiucture of Quinia.

R. Sulphate of quinia, one scruple.

Alcohol, half a fl. ounce.

Dissolve. Dose, ten to twenty drops.

Ellis.

# Compound Tincture of Quinia.

R. Sulphate of quinia, eighty grains. Tincture of orange-peel,

ten fl. ounces.

Dissolve. A fl. drachm contains one grain of the sulphate. Brit. Ph.

R. Sulphate of quinia,

forty-eight grains.
Compound tincture of orangepeel, five and a half fl. ounces.
Elixir of vitriol, forty-five drops.
Mix. Dose, half a fl. drachm to two fl.
drachms.

Copland.

# Wine of Quinia,

R. Sulphate of quinia, twelve grains.

Madeira wine, two pints.

Dissolve. Dose, one to two fl. ounces.

Magendie.

# Aromatic Wine of Quinia.

R. Sulphate of quinia, twenty grains.
Citric acid, thirty grains.
Orange wine, twenty fl. ounces.
Dissolve. Brit. Ph.
A fl. ounce contains one grain of the sulphate.

# Liniment of Sulphate of Quinia.

R. Sulphate of quinia, half a drachm.
Tartar emetic, six grains.
Extract of opium, twelve grains.
Spirit of camphor,

eighteen fl. drachms.

Mix. Three fl. drachms to be rubbed on the epigastrium, three times a day, in intermittents. Schuster.

# Ointment of Sulphate of Quinia.

R. Sulphate of quinia, one ounce.
Alcohol,
Sulphuric acid, each, sufficient
to dissolve.

Lard, four ounces.
Rub together. Half an ounce to be rubbed into the groins, in malignant intermittents.

Antonini.

# Plaster of Sulphate of Quinia.

R. Lead plaster, six drachms. Resin, two drachms.

Melt together, and add

Sulphate of quinia, one drachm.

Oil of cajeput,

Camphor, each, one scruple.

Mix. To be applied to the epigastrium as a prophylactic in cholera.

Ammon.

# Enema of Sulphate of Quinia.

R. Sulphate of

quinia, twelve to twenty grains. Flaxseed tea, four fl. ounces.

Mix. To be used every four to six hours.

Ellis.

Dentifrice of Sulphate of Quinia.

R. Sulphate of quinia,
Prepared coral,
Carmine lake,
Essence of myrrh,
Mix.

four grains.
one ounce.
eight grains.
two drops.

Pelletier.

#### Gargle of Sulphate of Quinia.

R. Sulphate of quinia, twelve grains.

"copper, sixteen grains.

Elixir of vitriol, one fl. drachm.

Water, eight fl. ounces.

Mix. To be used three or four times a
day, in obstinate sore throat. Hartshorne.

# QUINIÆ SULPHO-TARTRAS.

SULPHO-TARTRATE OF QUINIA.

R. Sulphate of quinia, four drachms. Tartaric acid,

four drachms and a half.

Distilled water, two fl. ounces.

Dissolve. Half a fl. drachm to a drachm, in the course of the day.

Righini.

#### Mixture of Sulpho-Tartrate of Quinia.

R. Sulphate of quinia, Tartaric acid, three grains. Syrup, one fl. ounce.

Mix. Dose, a teaspoonful. Casorati.

# QUINIÆ TANNAS.

TANNATE OF QUINIA.

R. Sulphate of quinia, one part.
Water, thirty parts.
Diluted sulphuric acid, sufficient.

Dissolve, filter, and add solution of

Tannic acid, three parts.
Cold water, thirty parts.
Set aside in a cool place, then collect on a filter, wash and dry at a moderate heat.

Ph. Germ. Found useful in intermittent neuralgia.

# Impure Tannate of Quinia.

R. Powdered Peruvian

bark, one part. Vinegar, six parts.

Macerate for twenty-four hours; then boil, and decant. Repeat the process with fresh vinegar. Mix the decoctions, filter when cold, and add infusion of galls as long as precipitation takes place. Collect, wash, and dry the precipitate.

Dose, similar to that of the sulphate.

Buchner.

# QUINIÆ TARTRAS.

TARTRATE OF QUINIA.

R. Quinia, two parts. Water, three parts.

Mix, boil, and add

Tartaric acid, sufficient to dissolve the quinia. Filter whilst hot, and let crystallize. Dorvault.

# QUINIÆ VALERIANAS.

VALERIANATE OF QUINIA.

R. Valerianic acid, half a troyounce.
Sulphate of quinia, two troyounces.
Dilute sulphuric acid,
Water of ammonia,
Water,
each,
sufficient.

Dissolve the quinia in a pint of water with sufficient of the acid, precipitate by ammonia, wash well to remove all sulphate of ammonium. Dissolve the valerianic acid in five pints of water, heat to 180°, add the quinia, and when dissolved, crystallize; drain and dry the crystals, and evaporate the mother-water for further crystallization.

U. S. Ph.

This may also be prepared by double decomposition, between the muriate of quinia and the valerianate of sodium.

Said to be more powerful than the sul-

phate, and not to cause nervous symptoms. It is given in solution, pill, enema, etc.

# Pills of Valerianate of Quinia.

R. Valerianate of quinia, twelve grs.

Powdered tragacanth, six grains. Water, sufficient.

Rub together, and divide into eight pills. Dose, one pill every hour, in hemicrania.

Thomas.

# R.

# RANUNCULUS.

# CROWFOOT.

Ranunculus bulbosus is indigenous to Europe, and has been extensively naturalized in this country; the whole plant is officinal.

Sex. Syst. Polyand. polygyn. Nat. Syst.

Ranunculaceæ.

The stem is bulbous at its base, hairy, with ternately divided leaves and bright yellow flowers; the plant is inodorous and has, when fresh, a strongly acrid taste. Other species, like R. acris, sceleratus, etc., have been used, but the above is the only officinal one. Externally applied in the fresh state, it acts as a rubefacient, and it has been administered in asthma, dysuria, rheumatism, etc. By drying, the plant becomes almost inert.

# RESINA.

#### RESIN.

Resin, or, as it is generally called, Rosin, is the residuum after the distillation of the volatile oil from various species of the Pine tribe. In this state it is Yellow resin, or Colophony, which, when melted and agitated with water, becomes of a whitish color, and forms White resin. Resin, when pure, is yellowish-brown, inclining to olive or brown; it is solid, brittle, of a smooth and shining fracture; of faint odor, and a somewhat acrid taste. It is principally used in medicine as an ingredient in plasters and ointments.

#### Hæmostatic Powder.

R. Powdered resin, four parts. gum Arabic,

" catechu, each, one part.

Mix. As an application to check external bleeding. Paris Codex.

R. Resin,
Gum Arabic,
Charcoal,

equal parts.

Pulverize well, and mix. Has proved useful in checking bleeding from wounds, etc.

Bonafoux.

# Resin Cerate, or Basilicon Ointment.

R. Resin, ten troyounces.
Lard, sixteen troyounces.
Yellow wax, four troyounces.
Melt together; strain through linen; and stir till cool.
U. S. Ph.

As a stimulant application to blistered

surfaces, burns, ulcers, etc.

# Compound Resin Cerate.

R. Resin,
Suet,
Yellow wax,
Turpentine,
Flaxseed oil, seven troyounces.
Melt together; strain through linen, and stir till cold.
Known as Deshler's Salve; is rather more stimulating than the last.

R. Common olive oil, six parts.

Yellow wax,
Resin, each, two parts.

Suet, one part.

Melt, strain, and stir till cold.

This is the basilicon ointment of Ph.

Germ.

### Resin, or Adhesive Plaster.

R. Powdered resin, half a pound.
Lead plaster, three pounds.

Melt the plaster by a gentle heat, and add the resin, mixing well.

U. S. Ph.

R. Resin, two ounces.

Lead plaster, sixteen ounces.

Hard soap, one ounce.

Liquefy the soap, add to the melted resin

Liquefy the soap, add to the melted resin and plaster, and mix well. Brit. Ph.

#### Plaster of St. Andrew.

R. White resin, eight ounces. Elemi, two ounces.

Venice turpentine,

Oil of bay laurel, each, one ounce.

Melt together, and strain. An adhesive plaster.

Paris Codex.

# Plaster of Vigo with Mercury.

R. Lead plaster,

two pounds, eight ounces. Yellow wax, Resin, each, two ounces. Ammoniac, Bdellium, each, five drachms. Olibanum, Myrrh, Saffron, three drachms. Turpentine, two ounces. Liquid storax, six ounces. Mercury, twelve ounces. Oil of lavender, two drachms.

Powder the gum-resins and saffron, and rub the mercury with the storax and turpentine, in an iron mortar, until globules disappear. Melt the plaster with the wax and resin, and add the powders and the oil of lavender. When cool, add the mercurial mixture and incorporate thoroughly.

Paris Codex.

Used to prevent pitting in smallpox, by spreading it on linen or leather, and covering the exposed part.

# Resin Paper.

R. Black pitch,
Turpentine, each,
Yellow wax,
Resin,
Melt together, strain, and spread upon
paper.

This is the getinburgation.

Ph. Germ.

This is the antirheumatic paper, a popular remedy in some parts of Europe.

# RHAMNUS.

#### BUCKTHORN.

The berries and juice of the R. catharticus, are possessed of active purgative properties. This plant is a native of Europe, and is occasionally met with in this country. European practitioners hold it in high esteem.

Sex. Syst. Pentand. monog. Nat. Syst. Rhamnaceæ.

Linn. Sp. Pl. 279. Griffith, Med. Bot.

Sometimes the berries are used, at others, their expressed juice. Dose of the dried berries one drachm.

#### Extract of Buckthorn.

R. Expressed juice of

buckthorn berries, at will.

Permit the juice to undergo a slight fermentation, and then evaporate to the proper consistence. Dose, one scruple.

Beasley.

# Syrup of Buckthorn.

R. Juice of buckthorn berries, four pints (imp.).

Sliced ginger,
Bruised pimento,
each, three-fourths of one ounce.
Sugar,
Alcohol,
six fl. ounces.

Evaporate the juice to two pints and a half. Add the ginger and pimento, digest four hours with a gentle heat, and strain. When cold add the spirit, after two days decaut the clear liquid, and dissolve the sugar so as to make the specific gravity 1.32.

Brit. Ph.

Dose, one fl. drachm.

# RHEUM. RHUBARB.

Rhubarb is the root of various species of Rheum, which grow in the deserts of Tartary, and in the central parts of Asia. Chinese rhubarb is probably obtained from Rh. officinale. Several other species are cultivated in England, France, and Germany, yielding the European variety of rhubarb.

yielding the European variety of rhubarb.

Sex. Syst. Enneand. trigyn. Nat. Syst.
Polygonaceæ.

Lind. Fl. Med. 358. Griffith, Med. Bot.

Three kinds of Rhubarb were formerly found in commerce, the Russian or Turkey, the European, and the Chinese; the first of which is no longer obtainable, but the last is now altogether used, and, when good, it answers every purpose. All are purgatives, with some tonic and astringent powers, and are much used in various forms of disease. The dose, in substance, to produce a full effect, is from twenty to thirty grains. They are given in a vast variety of forms.

#### Powder of Rhubarb and Magnesia.

R. Powdered rhubarb, one scruple.

Magnesia, ten grains.

Mix. To be given in syrup, or sugar and water.

Ellis.

#### Powder of Rhubarb and Chalk.

R. Powdered rhubarb, fifteen grains. Compound chalk

powder, twenty-four grains.

Mix. In the evening, in cardialgia. Foy.

# Potassium.

R. Powdered rhubarb, one drachm. sulphate of potassium, two drachms.

Mix. Ten grains to a drachm, every Fordyce. morning.

# Compound Powders of Rhubarb.

R. Magnesia, Cream of tartar, each, half an Powdered rhubarb, ounce. chamomile, Oleo-sacch. of fennel,

Mix. A tablespoonful, twice or thrice a day, in obstructions of the abdominal vis-Selle.

R. Powdered rhubarb, thirty grains. sulphate of potassium,

chamomile,

one drachm. each,

Mix, and divide into six powders. One, twice a day, in dyspepsia with torpor of the Ellis. bowels.

R. Powdered rhubarb, two ounces. Magnesia, six ounces. Powdered ginger, one ounce. Mix well, and keep in well-closed bottles.

U. S. Ph. and Brit. Ph. A good antacid laxative. Dose, five grains to a drachm, according to age.

#### Roasted Rhubarb.

R. Coarsely-powdered rhubarb,

at will.

Place it in a shallow iron dish, heat regularly, so as to brown the powder, which should be so constantly stirred that the influence of the heat should be uniform throughout; when the color has changed to brown, the process is to be stopped, and the rhubarb reduced to fine powder, for use. W. Procter.

R. Powdered rhubarb, at will. Heat in an iron vessel, constantly stirring, till it becomes almost black, then smother it in a covered jar. Dose, five to ten grains, as an astringent in diarrhœa. Hoblyn.

#### Pills of Rhubarb.

R. Powdered rhubarb, seventy-two grains. Soap, in powder,

Powder of Rhubarb and Sulphate of | Beat them with water, so as to form a mass. and divide into twenty-four pills. U.S. Ph. Each pill contains three grains of rhubarb.

# Compound Rhubarb Pills.

R. Powdered rhubarb,

forty-eight grains.

aloes, thirty-six grains.

myrrh,

twenty-four grains. Oil of peppermint, three minims. Water, sufficient.

Beat together into mass, and divide into U. S. Ph. twenty-four pills.

The pills of Brit. Ph. also contain soap

equal in weight to myrrh.

A warm, tonic laxative, useful in costiveness with debility of the stomach. Dose, two to four a day.

R. Powdered rhubarb,

one drachm and a half. Sulphate of iron, half a drachm. Soap, two scruples. Distilled water, sufficient.

Beat into mass, and divide into forty pills. In similar cases as last, three or four to be taken at bedtime. Griffitts.

# Pills of Rhubarb and Ipecacuanha.

R. Powdered rhubarb, one scruple. ipecacuanha, ten grains. Opium, three grains. Oil of cinnamon, five drops. Gum Arabic, sufficient. Triturate together, and divide into ten pills. One to be given every two or three hours, in dysentery, to relieve tormina and tenesmus. Chapman.

#### Pills of Rhubarb and Caraway.

R. Powdered rhubarb, two drachms. one fl. drachm. Syrup, Oil of caraway, ten minims. Mix, and divide into forty pills. Kitchener.

#### Pills of Rhubarb and Chamomile.

R. Powdered rhubarb. each, aloes. one myrrh, drachm. Extract of chamomile, Oil of chamomile, twelve drops.

Mix, and divide into sixty pills. These are twenty-four grains. | known as Speediman's pills. Beasley. R. Powdered rhubarb, ginger,

each, half a drachm.
Extract of chamomile, one drachm.
Beat together, and divide into thirty pills;
three to be taken before each meal. Have
been recommended in dyspepsia and chlorosis.

A. T. Thomson.

#### Griffitts' Pills.

R. Powdered rhubarb,

one drachm and a half.
Sulphate of iron, half a drachm.
Soap, two scruples.
Water, sufficient

to form mass. Divide into forty pills.

A favorite remedy with the late Dr. S. P.

Griffitts, to remove costiveness and impart tone to the bowels. Three or four, to be taken at bedtime.

## Pills of Rhubarb and Iron.

R. Dried sulphate of iron, four parts.

Extract of rhubarb, ten parts.

Conserve of red roses, five parts.

Beat into a mass, and divide into five-grain pills. Dose, two pills, as a tonic and laxative.

Ed. Ph.

#### Pills of Rhubarb and Soda.

R. Powdered rhubarb,
Carbonate of sodium,
Extract of gentian,
Mix, and make sixty pills.

Carbonate of sodium,
and a half.
Guy's Hosp.

R. Powdered rhubarb,
Dried carbonate of sodium,
Extract of gentian,
each,
Calomel,
Mix, and make twenty pills. Two, occasionally, in dyspepsia.

Ellis.

### Pills of Rhubarb and Ox Gall.

R. Inspissated ox gall,
Ammoniac,
Powdered rhubarb,

Mix, and form pills of two grains each.

Leipsic Ph.
In constipation, deficiency of bile, etc.

# Lozenges of Rhubarb.

R. Powdered rhubarb, Cream of tartar, each, two drachms.

Fresh orange-peel, half a drachm.
Sugar, dissolved in orangeflower water, four ounces.
Mix, and make lozenges of eighteen grains.

Béral.

#### Suppository of Rhubarb.

R. Extract of rhubarb, half a drachm.
Soap, three drachms.
Powdered rhubarb, sufficient.
Mix, and make three suppositories.

Radius.

# Electuary of Rhubarb.

R. Powdered rhubarb,
one drachm and a half.
Sulphate of potassium,
one drachm.
Cream of tartar,
Pulp of tamarinds,
Mix. A teaspoonful.
Saunders.

#### Infusion of Rhubarb.

R. Bruised rhubarb, two drachms.
Boiling water, half a pint.
Infuse for two hours, and strain.

U. S. Ph.
The infusion of Brit. Ph. is about onefourth weaker than this.

# Compound Infusion of Rhubarb.

R. Rhubarb, Liquorice root, half an ounce. each, Aloes, one drachm. Compound spirit of half a fl. drachm. lavender, Lime water, eight fl. ounces. Infuse for twelve hours, and strain. Dose, two tablespoonfuls two or three times a day, in dyspepsia. One or two fl. ounces, every three or four hours, till it operates.

#### Alkaline Infusion of Rhubarb.

R. Bruised rhubarb, two drachms.
Carbonate of potassium,
one drachm.
Boiling water, half a pint.
Infuse for four hours, strain, and add
Tincture of cinnamon,
half a fl. ounce.
Copland.

#### Extract of Rhubarb.

R. Rhubarb, in powder,

No. 50, twelve troyounces.

Exhaust by displacement, using first one pint of alcohol and afterwards diluted alcohol. Evaporate the twelve fl. ounces first obtained, spontaneously to six fl. ounces; evaporate the remaining tincture in a waterbath at or below 160° to a syrupy consistence, mix with the other portion, and evaporate to the proper consistence. U.S. Ph.

Ph. Germ. exhausts rhubarb with diluted alcohol; Brit. Ph. with a mixture of one measure of alcohol to ten measures of water; Paris Codex with cold water only.

Dose, five to twenty grains.

# Compound Extract of Rhubarb.

R. Extract of rhubarb, three parts.

"aloes, one part.
Distilled water, four parts.
Soften by a moderate heat, and add a solution of

Jalap soap, one part.
Alcohol, sp. gr. 892, four parts.
Mix, and evaporate to dryness. Dose, two to ten grains.

Dose, two Ph. Germ.

#### Fluid Extract of Rhubarb.

R. Rhubarb, in powder,

No. 50, Alcohol, Glycerin, sixteen troyounces. fourteen fl. ounces. two fl. ounces.

Mix the liquids, moisten the powder with four fl. ounces of the mixture, pack in a percolator, add the remaining mixture, and macerate for four days. Then with a mixture of two parts of alcohol and one of water, displace twenty-four fl. ounces, reserving the first fourteen, evaporate the remaining tincture to two fl. ounces and mix with reserved portion. U.S. Ph.

Dose, ten to thirty minims.

# Fluid Extract of Rhubarb and Senna.

R. Fluid extract of senna,

twelve fl. ounces.

four fl. ounces.

Bicarbonate of potassium,

Tincture of ginger, one fl. ounce.
Oil of cloves, eight minims.
" anise, sixteen minims.

Dissolve the bicarbonate in the fluid extracts, add the tincture containing the oils, and mix. Dose, a teaspoonful.

W. Procter, Jr.

#### Confection of Rhubarb.

R. Powdered rhubarb, Cream of tartar, each,

two drachms.

Pulp of prunes, eight troyounces.
Syrup of quinces, sufficient.
Mix, and make a soft electuary. Dose, a dessertspoonful.

St. Marie.

# Syrup of Rhubarb.

R. Fluid extract of rhubarb,

Syrup,

three fl. ounces. twenty-nine fl. ounces.

Mix thoroughly. U.S. Ph.

R. Coarsely-powdered rhubarb,
Coarsely-powdered coriander,
each, two ounces.
Alcohol, eight fl. ounces.
Water, twenty-four fl. ounces.
Sugar, twenty-four ounces.

Displace the mixed powders with the mixed liquids, evaporate the resulting tincture to thirteen fl. ounces, add the sugar, and make a syrup.

Brit. Ph.

R. Cut rhubarb, twelve parts.
Bruised cinnamon, three parts.
Carbonate of potassium, one part.
Distilled water, one hundred parts.
Macerate over night, strain, filter, and to eighty parts of the filtrate add

Sugar, one hundred and forty-four parts.

Dissolve. This syrup has a fine brown-red color. Ph. Germ.

Mild cathartic. Dose, for young children, one to two fl. drachms.

# Aromatic Syrup of Rhubarb.

R. Rhubarb, in powder,

No. 50, two troyounces and a half.

Cloves, in powder, No. 50, Cinnamon, in powder,

No. 60, each, half a troyounce.

Nutmeg, in powder,

No. 50, two drachms.
Diluted alcohol, sufficient.
Obtain by displacement one pint of tincture, and add to

Syrup, six pints, previously heated. U. S. Ph. A warm laxative in cases of children.

Dose, one fl. drachm in bowel complaints, to be repeated every two hours.

# Syrup of Rhubarb and Senna.

R. Bruised rhubarb, one ounce.
Senna, two ounces.
Fennel seed,
Bruised cinnamon,
each, two drachms.
Boiling water, two pints and a half.
Macerate for twelve hours, strain, and add
Sugar, three pounds.

#### Tincture of Rhubarb.

R. Rhubarb, in powder,

Make syrup.

No. 40, three troyounces.

Ed. Ph. 1744.

Cardamom, in powder,

No. 40, half a troyounce. Diluted alcohol, sufficient.

Obtain by percolation, two pints.

U. S. Ph.
To prevent precipitation of the tincture,
Mr. J. B. Moore suggests for the above
powders the following menstruum:—

Glycerin, four fl. ounces and a quarter.
Stronger alcohol, seventeen fl. ounces.

Water, twelve fl. ounces and six fl. drachms.

The percolation is completed with diluted alcohol.

The tincture of *Brit*. *Ph*. is of about the same strength, but the aromatics used are equal weights of cardamom seed, coriander, and saffron.

Dose, as purgative, half to one fl. ounce; as stomachic and tonic, one to two flui-

#### Tincture of Rhubarb and Gentian.

R. Rhubarb, bruised, Gentian, bruised, Diluted alcohol, two pints. U. S. Ph. 1850.

Macerate for fourteen days, express, and filter. In flatulent colic, etc. Dose, as above.

R. Rhubarb, bruised, two ounces. Gentian, bruised, half an ounce. Virginia snakeroot,

one drachm and a half.

Diluted alcohol, two pints.

Macerate for three days, express, and filter.

Van Mons.

#### Tincture of Rhubarb and Aloes.

R. Rhubarb, bruised, ten drachms.
Aloes, powdered, six drachms.
Cardamom, bruised, half an ounce.
Diluted alcohol, two pints.

Macerate for fourteen days, express, and filter. U. S. Ph. 1850.

This was formerly known as Elixir sacrum, and was much used.

# Tincture of Rhubarb and Senna.

R. Rhubarb, in powder,

No. 40, one troyounce.

Senna, in powder,

No. 40, two drachms.

Coriander, in powder,

No. 40,

Fennel, in powder,

No. 40, each, one drachm.

Liquorice, in powder,

No. 40, half a drachm.
Raisins, stoned, biluted alcohol, three pints.

Macerate for fourteen days, express, and filter. U. S. Ph.

Well known and much used under the name of Warner's gout cordial, as a stomachic and slight purgative. Dose, from a half to one fl. ounce.

#### Warner's Cordial.

R. Contused rhubarb, one ounce.
Senna, half an ounce.
Saffron, one drachm.

Fennel,

Coriander, each,
Liquorice,
Raisins, stoned,
Brandy,

two drachms.
four drachms.
one pound.
three pints.

Mix, and macerate for a week, and strain.

Dose, half a wineglassful, in atonic gout with flatulence.

Chapman.

#### Tincture of Rhubarb and Orange-Peel.

R. Rhubarb, one ounce.
Orange-peel,
Hiera picra, each,
French brandy, four pints.
Macerate, and strain. Dose, a tablespoon-

Macerate, and strain. Dose, a tablespoonful night and morning, in gout. Graves.

# Tincture of Rhubarb and Anise.

R. Rhubarb, bruised, Liquorice root, bruised,

each, two ounces.

Anise, bruised,
Sugar, each,
Diluted alcohol,
Macerate for fourteen days, express, and filter.

Used as the above tincture.

#### Sweet Tincture of Rhubarb.

R. Coarsely powdered rhubarb,

eight ounces.

Powdered liquorice root,

three ounces.

Bruised anise, three ounces.

" cardamom, half an ounce.
" orange-peel, one ounce.

Diluted alcohol, sufficient to make one gallon of tincture, by displacement.

Dose, a tablespoonful. A. B. Taylor.

R. Bruised rhubarb,

one ounce and a half.

" liquorice root,

" anise, each,

Sugar, one ounce and a half.
Diluted alcohol, two pints.
Macerate for two weeks, and filter. Or prepare the tincture by displacement.

D. S. Jones.

# Aqueous (Alkaline) Tincture of Rhubarb.

R. Rhubarb, cut, ten parts.
Powdered borax,
Carbonate of potassium,
each, one part.
Boiling water, eighty-five parts.

Macerate for fifteen minutes; add

Alcohol, ten parts.

Macerate, express slightly, strain, and add
Cinnamon water, fifteen parts.

Ph. Germ.

A mild purgative, where there is acidity of stomach, in doses of one-half to two fl. ounces.

#### Wine of Rhubarb.

R. Rhubarb, in powder,
No. 40, two troyounces.
Canella, in powder,
No. 40, one drachm.
Diluted alcohol, two fl. ounces.
Sherry wine, fourteen fl. ounces.
Displace the mixed powders with the mixed

liquids, and afterwards with diluted alcohol

until one pint has been obtained.

Brit. Ph. uses one ounce and a half (avoirdupois) of rhubarb to one pint (imp.) of the wine.

U. S. Ph.

A warm, cordial laxative, in doses of one to four fl. drachms.

R. Rhubarb, finely cut, eight parts.
Orange-peel, cut, two parts.
Cardamom, bruised, one part.
Sherry wine, one hundred parts.
Digest for a week, express, filter, and add

Powdered sugar, twelve parts.

Dissolve. Used like the preceding.

Ph. Germ.

R. Rhubarb, bruised, three parts.

Malaga wine, fifty pints.

Macerate for ten days, express, and filter.

Paris Codex.

Used as the last.

#### Wine of Rhubarb and Gentian.

R. Rhubarb, bruised,
Gentian, bruised,
Canella, bruised,
Wine,

Macerate for three days, express, and filter.

Swed. Ph.

#### Compound Wine of Rhubarb.

R. Rhubarb, bruised,
Orange-peel, bruised,
each, half an ounce.
Wine, two pints.
Macerate for twenty hours, strain, and add
Oleo-sacch. of mace, one ounce.
Hoffmann's anodyne, one drachm.
As a stomachic, a tablepoonful three times a day.

Phæbus.

#### Rhubarb Mixture.

R. Bruised rhubarb, one drachm.

"fennel, one scruple.
Sulphate of magnesium,

Manna, one ounce.
Boiling water, six fl. ounces.
Infuse and strain, when cold. As a mild purgative; one-half to be taken at a dose.

Radius.

R. Infusion of rhubarb, one fl. drachm and a half. Spirit of ammonia, two fl. scruples. Cinnamon water,

one fl. ounce and a half. Syrup of opium, six fl. drachms. Mix. A teaspoonful every two hours, in the chronic diarrhœa of young children.

Vogt.

R. Powdered rhubarb,

Carbonate of magnesium,

thirty grains. each. Aromatic confection,

twenty grains. Cinnamon water, nine fl. drachms. Comp. tincture of

one fl. drachm. cardamom, Mix. Advised in constipation of anæmic females. Ashwell.

R. Powdered rhubarb, one drachm. Carbonate of sodium,

two drachms.

Tincture of orange-

one fl. ounce and a half.

Decoction of liquorice,

ten fl. ounces and a half.

Mix. Dose, half a fl. ounce to one fl. ounce three times a day. Guy's Hosp.

R. Powdered rhubarb, one drachm. Magnesia, one drachm and a half. Powdered ginger, one scruple. Peppermint water, one pint.

Mix. Dose, half a fl. ounce. Gregory.

R. Powdered rhubarb, two scruples. Tartrate of potassium, one ounce. Peppermint water, six fl. ounces. Tincture of senna, Syrup of ginger,

> half a fl. ounce. each.

Mix. Dose, one fl. ounce. Brande.

# RHEAS. RED POPPY.

The Papaver rhaas, or Red Poppy, is a native of Europe, where it is found in great abundance in cultivated grounds, and has become naturalized in many places in this country.

Sex. Syst. Polyand. monog. Nat. Syst. Pa-

paveraceæ.

Linn. Sp. Pl. 726. Woodville, Med. Bot.

The parts used are the petals; these have a mucilaginous, somewhat bitter taste, and a narcotic smell, which latter is lost on drying. Their action on the system is slight; but they are used in Europe in the preparation of a syrup, prescribed as an anodyne in the catarrhal affections of children.

# Syrup of Red Poppy.

R. Red poppy petals,

thirteen ounces. Water. twenty ounces. Heat the water on a water-bath, gradually add the petals, remove from the fire, macerate for twelve hours, express, and strain; then add

Sugar, thirty-six ounces, and make syrup. When nearly cold, add

Rectified spirit,

two and a half fl. ounces.

Its sp. gr. is 1.330. Brit. Ph.

The syrup of Ph. Germ. is almost identical with the foregoing, the main difference being that the infusion is strained without pressing the petals, and no alcohol is added to the syrup.

Dose, one to four fl. drachms.

# Infusion of Red Poppy.

R. Red poppy petals, one drachm. Boiling water, one pint. Infuse and strain. To be taken freely, in catarrhal affections. Cottereau.

# Compound Infusion of Red Poppy.

R. Red poppy petals, two ounces. Diluted sulphuric acid,

fifteen drops. Sugar, two ounces. Decoction of barley, one pint. Infuse, and strain. Used as above.

St. Marie.

# RHUS GLABRUM.

# SUMACH.

A shrub-like plant, indigenous in barren soil in this country, with oddly pinnate leaves, and densely villous fruit of a bright purple color, and a sour taste.

Sex. Syst. Diœcia Pentand. Nat. Syst.

Anacardiaceæ.

The bark and leaves contain a large amount of tannin; the acid taste of the berries is due to bimalate of calcium; the infusion of the latter is used as an astringent gargle in sore throat, and in mercurial sore mouth.

#### Fluid Extract of Sumach Berries.

R. Sumach berries,

powdered, sixteen troyounces. Sugar, six troyounces. sufficient. Diluted alcohol,

Exhaust the powder with the diluted al-

cohol, reserve the first six fluidounces, evaporate the remaining tincture to six fluidounces, dissolve in this the sugar, and mix with reserved portion. Procter.

As an addition to gargles.

# ROSA CANINA.

#### Dog Rose.

This shrub is a native of Europe, growing in hedges and thickets.

Sex. Syst. Icosand. polyg. Nat. Syst. Rosa-

Linn. Sp. Pl. 704. Woodville, Med. Bot.

The fruit, called hips, which is the officinal portion, is smooth, oval, red, and of a pleasant, acidulous taste. It is principally used in confection.

# Confection of Dog Rose.

R. Hips deprived of the

seed-like akenes, one pound. two pounds. Sugar,

Beat the hips to a pulp in a stone mortar, rub the pulp through a sieve, add the sugar and rub together till well mixed.

Has been advised in diarrhœa and dysentery, as an astringent; but is principally used as a pill basis.

# ROSA CENTIFOLIA.

# HUNDRED-LEAVED ROSE. PALE ROSE.

This species, of which there are innumerable varieties, is cultivated in every garden, but its native country is unknown, though probably it is from Persia.

The petals are the only part used; these are fragrant, and have an acidulous, somewhat bitterish taste. They are slightly laxative, but are principally used for making rose water.

## Rose Water.

R. Fresh pale rose,

32

forty-eight troyounces. Water, sixteen pints.

Mix, and distil eight pints. U. S. Ph. Brit. Ph. and Paris Codex obtain from one pound of the fresh petals one pound, Ph. Germ. five pounds of distillate.

R. Oil of roses, twenty minims. Distilled water (imp.),

### Ointment of Rose Water.

R. Rose water, two fl. ounces. Oil of almonds, three troyounces and a half. one troyounce. Spermaceti, White wax, two drachms.

Melt the last three ingredients together, on a water-bath, and stir in the rose water till

Nearly identical with unquentum leniens of Ph. Germ.

R. Oil of sweet almonds,

two fl. ounces. Spermaceti, six drachms. Glycerin, four fl. drachms. Oil of roses,

bergamot, each, two drops. Melt the spermaceti with a gentle heat, stir in the oil of almonds gradually, remove the mixture from the fire, stir constantly, adding the glycerin, and finally incorporate the volatile oils. Jos. Laidley.

Much used, under the name of Cold cream, as a cooling application to irritated surfaces.

R. Lard, ten parts. White wax, two parts. Melt together, when nearly cold, add

Rose water, one part. Mix thoroughly. Ph. Germ.

### Rose Ointment.

R. Lard, one thousand parts. Alkanet, thirty parts. Digest by a water-bath for one hour, strain,

White wax, eight parts previously melted, stir, and when nearly cold, mix with

two parts. Oil of roses, Paris Codex.

#### Rose Lozenges.

R. Powdered sugar,

Rose water, each, six ounces. Evaporate gently, to a thick syrup, and

Coarsely-powdered sugar, one pound. Oil of roses,

one drachm and a half. half a gallon. When dissolved, pour in drops on a cold, Agitate together, and filter. Dub. Ph. oiled, marble slab, and dry. Cottereau. Collutory of Rose Water.

R. Rose water, three fl. ounces.

Cream,
Whites of eggs,
Syrup of violets,

Mix. St. Marie.

#### Oil of Roses.

R. Fresh rose leaves, at will.
Water, sufficient
to moisten the leaves; distil, and collect
the oil that floats on the product.

Guibourt.

The attar of roses of commerce is made almost exclusively in Turkey and the Levant.

#### Essence of Roses.

R. Pounded rose leaves,

Alcohol (.874), each, ten parts.

Infuse for twenty-four hours, by a gentle heat, and distil.

Taddei.

#### Rose Oil.

R. Pounded rose leaves, one part. Olive oil, four parts.

Digest with gentle heat for four days, express, and strain; repeat process with fresh leaves, a second and third time; separate the water, and filter.

Soubeiran.

As an application to chilblains and irritated surfaces.

# ROSA GALLICA. RED ROSE.

This species is a native of the south of Europe, and is generally cultivated in our gardens. The varieties are very numerous. Linn. Sp. Pl. 704. Griffith, Med. Bot. 273.

The parts used in medicine are the petals of the unexpanded flowers, deprived of their white claws, and dried. In this state they are of a purplish-red color, of an agreeable odor, and bitterish, astringent taste. They have mild astringent properties, but are more used as a vehicle than for their own powers.

# Confection of Roses.

R. Red roses, in fine
powder, four troyounces.
Powdered sugar,

thirty troyounces.
Clarified honey, six troyounces.
Rose water, eight fl. ounces.
Rub the roses with the rose water, heated to 150°; add gradually the sugar and

honey, and beat together.

R. Fresh red rose petals, one pound.
Refined sugar, three pounds.
Beat the petals to a pulp in a stone mortar, add the sugar, and rub well together.

Principally used as a pill basis.

# Compound (Acid) Infusion of Roses.

R. Red rose, half a troyounce. Boiling water, forty fl. ounces. Diluted sulphuric acid,

three fl. drachms.

Macerate in a glass vessel for half an hour; express, strain, and add

Sugar, one troyounce and a half.

As a cooling drink, mixed with water.

U. S. Ph.

R. Red rose, one quarter ounce.
Boiling water, ten fl. ounces.
Diluted sulphuric acid,
one fl. drachm.

Infuse the roses, in a glass vessel, with the mixed liquids for half an hour, and strain.

Brit. Ph.

# Honey of Roses.

R. Red rose, one part.
Clarified honey, ten parts.
Boiling water, six parts.

Macerate the roses in the water over night, express, and strain; add the honey, and evaporate to proper consistence.

Ph. Germ.

R. Red rose, in powder,

No. 50, two troyounces. Clarified honey,

twenty-five troyounces.

Diluted alcohol, sufficient.

Percolate the powder with the alcohol, re-

serve the first six fl. drachms, evaporate the eight fl. ounces, obtained afterwards, by means of a water-bath to ten fl. drachms, and, together with the reserved percolate, mix with the honey.

U. S. Ph.

As an addition to gargles.

# Electuary of Roses.

R. Confection of roses, sixteen parts.

Syrup of tolu, four parts.

poppies, one part.

he sugar and Mix. Used as an astringent in bowel af-U. S. Ph. fections, in doses of a teaspoonful. Foy.

#### Tincture of Roses.

R. Red roses, five ounces.
Alcohol, two fl. ounces.
Rose water, eight fl. ounces.

Digest for four days, express, and filter; digest residuum with half a pint of alcohol for three days; express, filter, and mix the liquors.

Squire.

Used principally as a perfume.

# Wine of Roses.

R. Red rose, one part.
Red wine, sixteen parts.
Infuse for half an hour, and strain. As an application to indolent ulcers. Béral.

# Vinegar of Roses.

R. Red rose, one part.
White vinegar, twelve parts.
Macerate for ten days, express, and filter.
Paris Codex.

# Compound Vinegar of Roses.

R. Red rose, one ounce and a half.
Sumach leaves, one ounce.
Wine of quince, four fl. ounces.
Vinegar of red wine, ten fl. ounces.
Macerate for ten days, express, and filter.
As an application to contusions, and as a styptic.

Van Mons.

# Syrup of Red Roses.

R. Red rose, in powder,

No. 50, two troyounces.

Sugar, eighteen troyounces.

Obtain from the powder by displacement with diluted alcohol six fl. ounces of tincture, reserving the first fl. ounce, and evaporate the remaining five to one fl. ounce and a half; mix this with seven fl. ounces of water, dissolve the sugar, strain, and when nearly cold, mix with reserved tincture.

U. S. Ph.

R. Red rose,
Boiling water,
Sugar,
Wacerate the rose leaves in the water for two hours, press, heat to boiling, filter, and dissolve the sugar. It weighs forty-six ounces, and has the sp. gr. 1.335.

Brit. Ph.

Dose, one fl. drachm.

A very mild astringent, of a fine red color.

# ROSMARINUS.

#### ROSEMARY.

This is the Rosmarinus officinalis, a small evergreen shrub, a native of the south of Europe, and generally cultivated in gardens elsewhere.

Sex. Syst. Diand. monog. Nat. Syst. La-

niaceæ

Linn. Sp. Pl. 23. Griffith, Med. Bot. 507. The officinal portions are the leaves, and in some pharmacopæias, flowering extremities. These have a fragrant odor, and a bitter, pungent taste. Rosemary is stimulant and carminative, but is principally employed as an aromatic addition to lotions and liniments, and as an ingredient in articles of perfumery.

#### Aromatic Bath.

R. Rosemary,
Thyme,
Sage,
Origanum,
Mint,

R. Rosemary,
the cach, half a pound.

Boiling water, six pints.

Macerate for twelve hours, strain, and add

Essence of soap, four ounces.

Chloride of ammonium,

two ounces.

Spielmann.

Pour the whole into water sufficient for a bath. Foy.

In chronic rheumatism, cutaneous affections, dyspepsia, etc.

#### Aromatic Fomentation.

R. Rosemary,
Red wine,
Water, each,
Infuse and express.
Contusions.

Ralf an ounce.
three fl. ounces.
As a fomentation in
Augustin.

#### Aromatic Vinegar.

R. Rosemary,
Sage, each,
Lavender, one ounce and a half.
Cloves,
Vinegar,
Infuse for eight days, and strain. As a lotion in contusions, sprains, etc.

# Compound Rosemary Ointment. (Nervine Ointment.)

R. Lard, sixteen parts.
Suet, eight parts.
Expressed oil of nutmegs,
Yellow wax, each, two parts.
Melt together, and when nearly cold, add

Oil of rosemary,
" juniper, each, one part.
Mix well.

Ph. Germ.

# Tincture of Rosemary.

R. Rosemary, one part. Spirit of rosemary, four parts.

Macerate, express, and filter. Bruns. Ph.

# Oil of Rosemary.

R. Rosemary, at will.

Water, sufficient
to cover. Distil, and collect the oil that
floats on the product. Principally used in
stimulating liniments, but sometimes given
as carminative in doses of two or three
drops.

U. S. Ph.

# Oleo-infusion of Rosemary.

R. Rosemary, one part.
Olive oil, three parts.
Heat till the water has evaporated, express,

and strain. As a stimulating application.

Span. Ph.

# Spirit of Rosemary.

R. Oil of rosemary, four drachms.

Alcohol, one gallon.

Dissolve the oil in the alcohol.

U. S. Ph. 1850.

Brit. Ph. directs to dissolve one fl. ounce of the oil in forty-nine fl. ounces of alcohol.

As an ingredient in lotions and liniments, etc.

R. Rosemary leaves, bruised,

one part.

Alcohol,
Water, each, three parts.
Macerate for a day, and distil four parts.

Ph. Germ.

### Hungary Water.

R. Rosemary, three parts.

Lavender, one part.

Diluted alcohol, six parts.

Water, twelve parts.

Mix, and distil three-fourths. Used as a perfume.

Van Mons.

R. Spirit of lavender, seven fl. ounces.
"rosemary, four fl. ounces.
Mix. Used as a substitute for the above.

R. Fresh rosemary, in blossom, four pounds. Fresh sage, in blossom, six ounces.

Ginger, two ounces.

Cut into pieces, and add

Alcohol, twelve pounds. Water, two pints.

Distil eleven pints by a gentle heat.

Wirt. Ph.

# ROTTLERA.

#### KAMALA.

This, which is also known by the names of wurus or waras, consists of the glandular hairs obtained from the fruit of Rottlera tinctoria, a small tree indigenous to the East Indies, southern Arabia, and Abyssinia.

Nat. Syst. Euphorbiaceæ. Roxb. Corom. pl. 168.

It is a fine granular powder, of a brickred color and almost inodorous and tasteless. Ether and alcohol dissolve the most of it. Incinerated, it should leave little over four per cent. of ashes. It possesses anthelmintic properties and purgative effects, and is mainly used in cases of tapeworm. Dose, one-half to two drachms, either in substance or tincture.

#### Tincture of Kamala.

R. Kamala, three ounces.
Alcohol, ten fl. ounces.

Digest and filter. Dose, half a fluidounce, with some aromatic water.

T. Anderson.

# RUBIA.

#### MADDER.

The Rubia tinctorum, or madder, is a perennial plant, a native of the south of Europe, and extensively cultivated in many countries for the sake of its roots, which are used in dying reds.

Sex. Syst. Tetrand. monog. Nat. Syst. Rubiaceæ.

tinn. Sp. Pl. 158. Griffith, Med. Bot. 382.
The root is the officinal portion, and, as found in commerce, is in long cylindrical pieces, about as thick as a quill, of a deep red or brown color. It has a peculiar and unpleasant odor, and a bitterish, astringent taste. It was much used formerly as a diuretic, but is at present seldom prescribed, except occasionally as an emmenagogue, for which purpose it is highly spoken of by many practitioners.

# Compound Powder of Madder.

R. Powdered madder,

sugar,

each, two drachms.
sulphate of potassium,
half an ounce.

Mix well. Dose, ten grains to a scruple, in rachitis. Radius.

#### Decoction of Madder.

R. Powdered madder, one ounce.

Boiling water, one pint.

Simmer for fifteen minutes, and add

Bruised cloves, one drachm.

Strain when cool. A wineglasful every three hours, a short time previous to the expected time of the menstrual discharge.

Dewees.

R. Powdered madder, one ounce.

"mace, two drachms.

Water, one pint and a half.

Boil down to one pint, strain, and add

Aromatic tincture, two fl. drachms. Syrup of citric acid, two fl. ounces. Dose, three fl. ounces three or four times a day, in amenorrhœa, chlorosis, etc.

Swediaur.

R. Powdered madder, half an ounce.

"hops, one drachm.
English walnut leaves, three.
Water, two pints.
Boil down to a pint and a half, strain, and add

Tincture of tartrate of iron, one fl. drachm.

Advised in scrofula, in doses of two ounces, night and morning.

St. Marie.

# RUBUS CANADENSIS.

DEWBERRY.

### RUBUS VILLOSUS.

### BLACKBERRY.

These two species of shrubby plants are very common in the United States, and are well known for their pleasant fruit.

Sex. Syst. Icosand. polyg. Nat. Syst. Ro-

saceæ.

Torrey and Gray, i. 454, 455. Griffith, Med.

Bot. 275, 276.

The juice of the fruit is employed in the form of a syrup. The officinal portion is the bark of the roots, which has a very faint odor, and a bitterish, astringent taste. It

is an efficient but mild astringent, and has been found very useful in a relaxed condition of the bowels.

# Decoction of Blackberry Root.

R. Small roots of blackberry,

one ounce.

Water, one pint and a half. Boil down to one pint, and strain. Dose, one or two fl. ounces, three or four times a day, in diarrhea, etc.

# Fluid Extract of Blackberry.

R. Bark of blackberry root, in powder, No. 60, sixteen troyounces.
Alcohol, eight fl. ounces.
Glycerin, three fl. ounces.
Water, five fl. ounces.

Mix the liquids, moisten the powder with four fl. ounces of the mixture, pack in a glass percolator, add the remaining mixture, and macerate for four days. Then, with diluted alcohol, displace twenty-four fl. ounces, reserving the first fourteen, add to the remainder one fl. ounce of glycerin, evaporate to two fl. ounces, and mix with reserved portion.

U. S. Ph.

Dose, half to one fl. drachm.

# Syrup of Blackberry.

R. Fluid extract of blackberry,

half a pint.

Syrup, one pint and a half.

Mix. Dose, about a tablespoonful.

U. S. Ph.

# Syrup of Blackberries.

R. Juice of blackberries,

Sugar, three pounds.
Boil, and strain. Said to be very useful in dysentery.

R. Blackberries, thirty quarts.
Mash, strain through unbleached muslin,
and express the remainder. Then heat in
a proper vessel

Sugar, (av.) sixty-four pounds. Water, two and one-quarter gallons. Make a syrup, and stir in the blackberry juice, continuing the heat until the syrup has boiled two or three minutes. The syrup should mark 31° Baum. while boiling. Remove from the fire, skim, and strain. As this syrup is rather insipid, its flavor may be improved by adding aromatics.

Ambrose Smith.

## RUBUS IDÆUS.

#### RASPBERRY.

This is a European plant, cultivated in this country for its fruit, which is officinal in several European pharmacopæias.

## Syrup of Raspberries.

R. Raspberries, at will. Bruise, set aside for three days, express the juice, let settle until perfectly limpid, and filter; then take of this

Clarified raspberry juice, five parts. Sugar, nine parts.

Dissolve by heat. Other fruit syrups are made by the same process. Ph. Germ.

## Vinegar of Raspberries.

R. Raspberry syrup, one part.
Pure vinegar, two parts.
Mix. An agreeable cooling drink.

Ph. Germ.

## Raspberry Water.

R. Press cake obtained in making raspberry syrup, one part.

Obtain by distillation with water two parts of distillate.

Ph. Germ.

#### RUMEX.

#### Dock.

Various species of dock have been used at different times, but the R. crispus or yellow dock is alone officinal in this country.

Sex. Syst. Hexand. trigyn. Nat. Syst. Polygonaceæ.

Willd. Sp. Pl. ii. 250. Griffith, Med. Bot.

All of the species of dock are cooling, aperient, and slightly diuretic, but they are seldom employed.

#### Decoction of Dock Root.

#### R. Bruised yellow dock root,

Boiling water, one pint.

Boil for fifteen minutes, and strain. This has proved efficacious in ichthyosis. Dose, one fl. ounce.

A. T. Thomson.

#### RUTA

#### RUE.

The only species recognized in medicine is the Ruta graveolens, a small shrub with glaucous leaves and yellow flowers, a native of

the south of Europe, but generally cultivated in gardens.

Sex. Syst. Decand. monog. Nat. Syst. Ru-

taceæ.

Linn. Sp. Pl. 523. Griffith, Med. Bot. 189. The leaves are the part usually employed; they have a nauseous odor, and a bitter, acrid, disagreeable taste. They are stimulant and antispasmodic, and have been much used as an emmenagogue and vermifuge. The dose of the powder is from ten to twenty grains two or three times a day, of the volatile oil one or two drops.

## Confection of Rue.

R. Powdered rue,
Caraway,
Laurel berries,
Sagapenum,
Black pepper,
Clarified honey,

Caraway,
and a half.
half an ounce.
two drachms.
sixteen ounces.

Mix. Lond. Ph.

It is used as an antispasmodic, in the form of an enema made with a scruple to a drachm, mixed with half a pint of warm, mucilaginous fluid.

#### Extract of Rue.

R. Dried rue, one part.

Alcohol (60 pr. ct.), six parts.

Exhaust the rue by the process of displacement, distil off the alcohol, and evaporate.

Paris Codex.

#### Mixture of Rue and Squill.

R. Juice of rue leaves, one ounce.
Oxymel of squill, half an ounce.
Mix. A teaspoonful occasionally, in hysteric affections.

Pierquin.

#### Oleo-infusion of Rue.

R. Dried rue, one part.
Olive oil, ten parts.
Digest for two hours on a water-bath, agitating from time to time, express, and filter.

Paris Codex.

#### Syrup of Rue.

R. Coarsely-powdered
sugar, fifteen ounces.
Tincture of rue, two fl. ounces.
Distilled water, seven fl. ounces.
Dissolve, and strain.

Béral.

#### Tincture of Rue.

R. Expressed juice of rue, Alcohol (.847), each, four fl. ounces. Mix, and filter at the end of twenty-four Béral. hours.

## Mixture of Rue.

R. Rue, each. three Savine, drachms. Wormwood,

Boiling water, one pint. Infuse, strain, and add

Castor oil, half an ounce. As an injection, in cases of ascarides.

Radius.

## S.

## SABADILLA.

## CEVADILLA.

This article is the seed of one or more plants belonging to the natural order of Melanthaceæ; the U. S. Ph. attributes it to Veratrum sabadilla, and the Brit. Ph. to

Asagræa officinalis.

The Cevadilla of the shops consists of follicles, seeds, etc. The first are ovate, oblong, acuminate, of a pale, yellowish-brown color, and a thin, papery consistence. The seeds are small, curved, acuminate, shining, wrinkled, and of a blackish-brown color. They have very little odor, but their taste is bitter and acrid. These seeds are a drastic emeto-cathartic, and have been used as an anthelmintic, and in nervous diseases, etc.; but are principally used in the preparation of veratria. The dose is from two to ten grains, in powder; but it should always be given with much caution.

## Compound Powder of Cevadilla.

R. Powdered cevadilla, two grains. Sulphate of iron, one grain. Powdered santonica,

Magnesia, each, ten grains. Mix. To be given four times a day, in cases of tenia. Radius.

#### Tincture of Cevadilla.

B. Seeds of cevadilla, bruised, at will. Alcohol, sufficient to cover them; digest for ten days, and filter. As a lotion in rheumatism. Turnbull.

#### Extract of Cevadilla.

R. Tincture of cevadilla, at will. Evaporate to proper consistence. Dose. one-sixth of a grain, as a substitute for veratria in tic douloureux, etc. Turnbull. gency or aroma.

#### Ointment of Cevadilla.

R. Powdered cevadilla, four ounces.

mustard,

66 pellitory, each,

two ounces.

Lard, thirty-two ounces.

Mix well. To destroy lice. Paris Codex.

## Ointment of Extract of Cevadilla.

R. Extract of cevadilla,

fifteen to twenty grains.

Lard, one ounce.

Mix well. As a substitute for veratria ointment, but not as efficient. Turnbull.

### Capuchin Powder.

R. Powdered cevadilla,

66 stavesacre, equal parsley seed, parts. tobacco,

Mix. To destroy vermin in the hair.

Niemann.

## SABBATIA.

#### AMERICAN CENTAURY.

The Sabbatia angularis is a small annual or biennial plant, growing in abundance in various parts of the United States, having numerous rose-colored flowers, which appear in July and August.
Sex. Syst. Pentand. monog. Nat. Syst.

Gentianaceæ.

Pursh, Flor. Am. i. 137. Griffith, Med.

Bot. 458.

The herbaceous portion of the plant is officinal. It is a pure bitter, with no astrin-

#### Infusion of American Centaury.

R. American centaury, one ounce. Boiling water, one pint. Infuse: and strain when cool. Dose, a wineglassful, every two hours, as a tonic. Chapman.

## Tincture of American Centaury.

R. American centaury, one part. Diluted alcohol, six parts. Digest for four days, express, and filter. Dose, a fl. drachm to two fl. drachms.

## Extract of American Centaury.

R. American centaury, one part. Diluted alcohol, eight parts. Subject the herb to two or three macerations in the alcohol; heat to boiling; unite the tinctures, distil off the alcohol, and evaporate the residue.

## Dose, five to ten grains.

## SABINA.

#### SAVINE.

Savine is the tops of Juniperus sabina, a small tree or shrub, a native of the south of Europe, somewhat resembling the red cedar in its foliage.

Sex. Syst. Diœcia monadelph. Nat. Syst.

Pinaceæ.

Linn. Sp. Pl. 1472. Griffith, Med. Bot. 608. The tips of the branches are officinal. These, when dried, have a bitter, acrid taste, and an unpleasant odor. Savine is an active stimulant, acting powerfully on the skin and uterus. It also acts as an external irritant. The dose of the powder is from five to fifteen grains, three or four times a day.

### Powder of Savine and Ginger.

R. Powdered savine,

ginger, each, one drachm. Sulphate of potassium,

two drachms.

Mix, and divide into six powders. One, to be taken twice a day, in amenorrhœa.

Ellis.

Powder of Savine and Spanish Flies.

R. Powdered savine, one drachm. Spanish flies,

two grains.

Mix, and divide into four powders. One, at bedtime, in amenorrhœa.

## Powder of Savine and Verdigris.

R. Powdered savine,

verdigris, equal parts. Mix. As an escharotic to venereal warts. J. Hunter.

#### Powder of Savine and Pinkroot.

R. Powdered pinkroot,

senna, each, scruples.

savine, twelve grains. Mix, and divide into six powders. Anthelmintic. One, every morning, till three are taken, then a dose of castor oil. If required, repeat.

### Pills of Savine.

R. Extract of savine, half an ounce. Powdered savine, two drachms. Oil of savine, sufficient. Mix, and form pills of two grains each. Four, three times a day, as an emmena-Niemann. gogue.

#### Extract of Savine.

R. Powdered savine, one part. Alcohol (60 pr. et.), six parts. Exhaust the savine by the process of displacement; distil off the alcohol, and evaporate on a water-bath.

Paris Codex. Ph. Germ. exhausts with diluted alcohol.

#### Oil of Savine.

R. Savine, at will. Water, sufficient to cover. Distil, and collect the oil that floats on the Guibourt. product.

A powerful stimulant emmenagogue, and rubefacient. Dose, two to five drops.

#### Emulsion of Oil of Savine.

R. Oil of savine, one fl. drachm. Spirit of nitrous ether, three fl. drachms. Mucilage of acacia, one fl. ounce. Water, sufficient for six fl. ounces. Mix. Dose, a teaspoonful every two hours, in amenorrhœa. Tilt.

#### Infusion of Savine.

R. Savine, one drachm. eight fl. ounces. Boiling water, Infuse for half an hour, and strain. Dose, Ellis. half a fl. ounce. Pereira.

R. Savine, one drachm.
Camphor, six grains.
Boiling water, five fl. ounces.
Infuse, and strain.

One drachm.
Six grains.
Horn.

#### Tincture of Savine.

R. Savine, two ounces and a half.

Alcohol, sufficient.

Obtain by maceration and displacement twenty fl. ounces of tincture.

Dose, twenty minims to a fl. drachm.

Brit. Ph.

## Compound Tincture of Savine.

B. Extract of savine, one ounce. Tincture of castor,

sixteen fl. ounces.

"myrrh, eight fl. ounces.

Digest till dissolved. As an emmenagogue.

Lond. Ph. 1788.

R. Compound tincture of
savine, one fl. ounce.
Tincture of black
hellebore, half a fl. ounce.
Tincture of castor, two fl. drachms.
Mix. Forty drops, three times a day.

Ellis.

#### Fluid Extract of Savine.

R. Savine, in powder,

No. 50, sixteen troyounces. Stronger alcohol, sufficient. Moisten powder with half a pint of the alcohol, pack firmly in a percolator, add half a pint of the alcohol, and macerate for four days. Then displace twenty-four fl. ounces, reserving the first fourteen, evaporate the remainder on a water-bath to two fl. ounces and mix.

U. S. Ph.

A convenient form for administering savine. Dose, five to fifteen minims.

#### Savine Cerate.

R. Fluid extract of savine,

Resin cerate, twelve troyounces.

Melt the cerate, add the fluid extract, stir, at a moderate heat, constantly until the alco-

hol has evaporated, and finally until cool.

U. S. Ph.

As a dressing to keep up the discharge

As a dressing to keep up the discharge of blisters, etc.

#### Savine Ointment.

R. Powdered savine, Lard, equal parts

one drachm. Mix. As an application to venereal warts.

R. Fresh savine, bruised,

eight ounces. three ounces.

Yellow wax, three ounces. Lard, sixteen ounces.

Melt the lard and wax together, mix in the savine, digest for twenty minutes, and express through linen.

Brit. Ph.

R. Extract of savine,
Simple ointment,
Mix thoroughly.

one part.
nine parts.

Ph. Germ.

## SACCHARUM.

## SUGAR.

Sugar is procured from the Saccharum officinarum and other species, and is used in several forms, as molasses, brown and refined sugar, the latter of which only is recognized in the U. S. Ph.

## Syrup.

R. Sugar, thirty-six troyounces. Water, sufficient.

Dissolve the sugar, with heat, in twenty fl. ounces of the water, boil and strain while hot; pass through the strainer sufficient water to make the syrup measure forty-four fl. ounces, or weigh fifty-five troyounces. It has the sp. gr. 1.317.

U. S. Ph.

Somewhat diluted with water it has been recommended by Dr. Trait in granular eye-

lids.

### Caramel, or Burnt Sugar.

R. Sugar, at will.

Place in a shallow vessel, and heat over a gentle fire till it assumes a dark-brown color. Used as a coloring for spirits, etc.

The previous addition of some ammonia or carbonate of ammonium facilitates the conversion of the sugar into caramel.

## Vermifuge Sugar.

R. Ethiops mineral, two parts.

Quicksilver, three parts.

Rub together until the globules are extinguished; add

Sugar, seven parts, and mix thoroughly. Soubeiran.

#### Saccharated Powders.

Under this name, M. Béral has proposed the mixture of sugar with various active equal parts. medicines, all the ingredients being reduced to powder. The peculiarity of the preparation is that sugar enters it in large proportion, while the true medical agent is in small quantity.

## Saccharated Powder of Digitalis.

R. Fresh leaves of digitalis, deprived of midribs and nerves. one part.

Place in bibulous paper, and expose to the air in the shade for twelve hours. Then mix carefully with

three parts. White sugar, Dry the mixture with a gentle heat, pulverize, and preserve in opaque bottles.

In the same manner may be prepared saccharated powders of fresh aconite leaves, belladonna, hemlock, henbane, savine, stra-Dorvault. monium, and rue.

#### Saccharated Powder of Jalap.

R. Tincture of jalap, sixty parts. Sugar, in small lumps,

five hundred parts.

Pour the tincture on the sugar, and permit the alcohol to evaporate spontaneously, or on a sand-bath. The process of evapora-tion may be accelerated by reducing the sugar to a coarse powder, twenty-four hours after the addition of the tincture. The active principle is retained in the sugar.

In the same manner may be prepared

saccharated powders of-

Belladonna, Myrrh, Nutmeg, Castor, Cinnamon, Rhubarb, Cinchona, Saffron, Squill, Cloves, Henbane, Tolu. Vanilla, Ipecacuanha, Etc. Etc. Mace,

This mode of obtaining the active principles of medicines in a soluble form, may be resorted to, advantageously, in making Dorvault. lozenges.

### Oleo-saccharated Powders.

R. Any volatile oil, one part. seventy-two parts. Sugar,

Rub together. For convenience of preparation, one drop of the oil to one drachm of sugar is sufficiently accurate for all practical purposes. By this admixture, the volatile oil becomes soluble in water.

Ph. Germ. uses one drop of the oil to two grammes of sugar.

## SACCHARUM LACTIS.

#### SUGAR OF MILK.

R. Whey, at will.

Clarify with white of egg, and evaporate on water-bath to crystallization, and set aside in a cool place.

Cooling and slightly laxative, in doses of two drachms to one ounce; but mostly em-ployed as a vehicle for medicinal powders, and for reducing other medicinal substances to very fine powders by triturating them with the hard milk sugar. Cow's milk, diluted with water and with milk sugar added, has been recommended as a good substitute for the milk of the human female.

#### Mixture of Sugar of Milk and Iceland Moss.

R. Iceland moss, four drachms. one pint and a half. Water. Reduce to one-half by boiling, strain, and add

Sugar of milk, two drachms. Milk, one pint. Syrup of asparagus, three ounces. A cupful occasionally, in chronic catarrh.

#### Mixture of Sugar of Milk and Gum Arabic.

R. Sugar of milk, Sugar, each, two pounds. three pounds. Gum Arabic, Extract of dog-grass,

seven ounces.

Ammon.

Mix. Half an ounce, dissolved in a quart of water, forms a refreshing and demulcent drink. Cadet.

#### Sugar of Milk Draught.

R. Sugar of milk, half an ounce. Boiling water, two pounds. Lemon juice, sufficient. Mix. Recommended in cholera, to appease

the thirst.

## SAGAPENUM.

#### SAGAPENUM.

This is a gum resin, derived most probably from some plant belonging to the Apiaceæ. It is in irregular masses, composed of cohering fragments of a yellowish-brown, olive, or reddish-yellow color; of a waxy consistence, of a somewhat alliaceous odor, and a pungent, bitterish, unpleasant taste. It is a mild stimulant, somewhat resembling assafetida in its properties, but inferior to

it. It has been used as an emmenagogue and antispasmodic, but it is now seldom prescribed internally, but is still employed as an external application as a discutient.

## Prepared Sagapenum.

one pound. R. Sagapenum, Water, sufficient to cover. Heat the sagapenum with the water until they are mixed. Strain through a hair sieve, and evaporate on a water-bath, stir-Lond. Ph. 1836. ring constantly.

## Compound Sagapenum Pills.

R. Sagapenum, one ounce. half a drachm. Aloes, sufficient. Syrup of ginger,

Beat together. Dose, ten grains.

Lond. Ph. 1836.

As a stimulant, antispasmodic laxative, in flatulent colic, etc.

## SAGO.

This is the prepared fecula of the pith of various species of Palmaceæ and Cycadaceæ. It is prepared in two forms, meal and pearl sago, the latter of which is most generally employed. This is in small, hard, whitish or brownish grains, inodorous, and of a mucilaginous taste. It is insoluble in cold water, but by long boiling forms a glutinous solution. It is nutritive, easily digestible, and forms an excellent article of diet for the sick and convalescent.

#### Sago Mucilage.

R. Sago, one ounce. Water, one pint. Macerate by a gentle heat, for two hours, then boil for fifteen minutes, stirring con-

tinually, till the grains are perfectly dissolved; add sugar or flavoring, according to circumstances.

A. T. Thomson.

#### Sago Posset.

R. Sago, two ounces. Water, two pints.

Macerate for two hours, by a gentle heat, then boil, till a mucilage is formed; then rub half an ounce of sugar on the rind of a lemon, add this and one fl. drachm of tincture of ginger to half a pint of sherry wine, pour the whole into the sago mucilage, and boil for five minutes. Useful in convalescence to restore strength. A wineglassful to be taken every four or five hours.

Sago Milk.

R. Sago, one ounce. Water, one pint.

Macerate for half an hour, then add

one pint and a half. Boil slowly, till the sago is perfectly dis-A. T. Thomson. solved.

#### SALICINUM.

#### SALICIN.

R. Decoction of willow bark, at will. Treat with slaked lime, filter, and evaporate to consistence of syrup; add alcohol, again filter, evaporate, and let crystallize; wash the crystals with cold water. Cottereau.

Dose, four or six grains every three hours,

in apyrexia of intermittents.

#### Pills of Salicin.

R. Salicin, Extract of gentian, each, twelve grains. Liquorice powder, sufficient. Mix, and make six pills. Foy.

twenty-four grains. R. Salicin, Mucilage of gum Arabic, sufficient to make eight pills. Dose, one pill every three hours, in the apyrexia of intermittent Ellis. fevers.

#### Compound Salicin Pills.

R. Salicin, one scruple. Compound rhubarb pill, two scruples.

Mix, and make twelve pills. Beasley.

## Compound Powder of Salicin.

R. Salicin, two scruples. Aromatic powder, one drachm. Mix, and divide into twelve powders.

Neligan.

fifteen grains. R. Salicin, Tartar emetic, one grain. Powdered sugar, fifty grains. Mix, and divide into ten powders. One, thrice a day. Krombolz.

#### SALIX

#### WILLOW.

Many species of willow have been used in medicine, and are recognized in the different A. T. Thomson. Ph. is the Saliz alba, a small tree, a native of Europe, but extensively cultivated in the United States.

Sex. Syst. Diœcia diand. Nat. Syst. Salica-

Linn. Sp. Pl. 1449. Lindley, Flor. Med.

The officinal portion is the bark; this is in thin, flexible, fibrous pieces, of a brown color. It has a peculiar, aromatic odor, and an astringent, bitter taste. It is tonic and astringent, and has been used as a sub-stitute for Peruvian bark.

#### Extract of Willow Bark.

R. Powdered willow bark, two parts. Distilled water, one part.

Macerate twelve hours, transfer to a percolator, exhaust, raise the liquid to the boiling point, strain, and evaporate to the consistence of an extract.

## Compound Powder of Willow Bark.

R. Powdered willow bark,

horse-chestnut bark,

equal

gentian,

parts.

calamus,

avens root,

In intermittent fevers, in drachm doses.

Hufeland.

#### Willow Bark Dentifrice.

R. Powdered willow bark,

charcoal, each, half an ounce. Extract of myrrh, two drachms. Balsam of Peru, half a scruple. Oil of cinnamon, three drops.

Triturate well together.

Phæbus.

#### Decoction of Willow Bark.

R. Contused willow bark,

one ounce and a half.

Water,

fifteen fl. ounces.

Boil down to one-half.

Niemann.

## Ointment of Willow Leaves.

R. Expressed juice of willow

leaves, two fl. ounces. Lard, sufficient.

Mix, and heat till moisture is driven off. Useful as a dressing to foul ulcers.

Hufeland.

## SALVIA.

#### SAGE.

Though many species of Salvia possess analogous remedial properties, one only is recognized by the U. S. Ph.—the Salvia officinalis, a perennial plant, native of the south of Europe, but generally cultivated in our gardens, flowering in June, at which time it should be collected.

Sex. Syst. Diand. monog. Nat. Syst. La-

miaceæ.

Linn. Sp. Pl. 34. Griffith, Med. Bot. 505. The leaves are the officinal portion. These have a strong, fragrant odor, and a warm, bitterish, aromatic, somewhat astringent taste. Sage is stimulant, with some astringent and tonic powers. It is principally used in the composition of gargles, and is also said to abate the excessive sweats in hectic fever. The dose, in powder, is from twenty to thirty grains.

## Infusion of Sage.

R. Sage, one troyounce. Boiling water, one pint.

Infuse for half an hour, and strain.

Sugar and lemon juice may be added, according to circumstances. As a drink in fevers, and as a vehicle for gargles.

## Compound Infusion of Sage.

R. Sage,

half an ounce. Boneset, each, Cascarilla, one drachm. one pint and a half. Water, Infuse till cold, and strain. Dose, a wine-

glassful every three or four hours. In hectic fever.

## Water of Sage.

R. Sage, one part. Water, sufficient.

Macerate and distil two parts. Used as a Paris Codex. vehicle.

#### Concentrated Sage Water.

five parts. R. Sage, sufficient. Water, Alcohol, one part.

Macerate, and distil five parts.

Sage water is made by diluting one part of this concentrated, with nine parts of dis-Ph. Germ. tilled water.

#### Aromatic Water. (Cephalic Water.)

four parts. R. Sage, Rosemary, Peppermint, each, two parts. Lavender,

Fennel, Cinnamon, each, Alcohol, twenty-six parts. Macerate for a day with sufficient water, and distil seventy-two parts. Ph. Germ.

## Gargle of Sage.

R. Infusion of sage, one pint. Diluted sulphuric two drachms. acid. Honey of roses, one ounce. Mix. In relaxation of the uvula, etc.

Radius.

R. Infusion of sage, two pints. Tincture of Peruvian bark, Syrup of mulberries, half a fl. ounce. Spirit of horseradish, one drachm. Mix. More active than the last. Cadet.

## Vinegar of Sage.

R. Sage, bruised, one part. White vinegar, twelve parts. Macerate for ten days, express, and filter. Paris Codex.

## Distilled Vinegar of Sage.

R. Sage, one part. Vinegar, six parts. Mix, and distil four parts. Béral. As a gargle, mixed with water.

#### SAMBUCUS

#### ELDER FLOWERS.

The species recognized by the U.S. Ph. is the Sambucus Canadensis, which appears to be perfectly identical in properties with the European kind, the S. nigra.

Sex. Syst. Pentand trigyn. Nat. Syst. Ca-

Willd. Sp. Pl. 1494. Griffith, Med. Bot.

The officinal portion is the flowers, but the berries, bark, and leaves are also used. The flowers have a faint but peculiar odor, when dried, and a bitterish taste. They are slightly stimulant and diaphoretic. The berries are diaphoretic and laxative; the bark acts as a hydragogue purgative, as do also the leaves.

#### Elder-Flower Water.

R. Fresh elder flowers, ten pounds. Water, twenty pounds. Mix, and distil ten pounds. Brit. Ph. Principally used as a flavoring ingredient in mixtures and emulsions.

## Vinegar of Elder Flowers.

one part. R. Elder flowers. one part. White vinegar, twelve parts. Macerate for ten days, express, and filter. Paris Codex. As a gargle.

#### Gargle of Elder Flowers.

R. Elder flowers, one ounce. Boiling water, one pint. Infuse, strain, and add

Nitrate of potassium,

half an ounce.

Tincture of burnet,

three fl. drachms. Oxymel, two fl. ounces. Mix. Saunders.

#### Fomentation of Elder Flowers.

R. Elder flowers, one part. Tepid water, twenty parts. Infuse for one hour, and strain.

Paris Codex.

#### Extract of Elder Berries.

R. Ripe elder berries, at will. Heat gradually, with constant stirring, until ruptured, then express, let settle, strain, and evaporate to a soft extract, twelve parts of which are to be incorporated while warm, with one part of powdered Ph. Germ. sugar.

Has been praised in rheumatic, gouty, and eruptive affections; in doses of one to

four drachms.

#### Mixture of Extract of Elder Berries.

R. Extract of elder berries, each, Pulp of prunes, two ounces. Syrup of red poppies,

Nitrate of potassium, one drachm. Mix. Two or three spoonfuls a day, in St. Marie. asthma.

#### Decoction of Elder Bark.

R. Elder bark, three ounces. two pints. Water, Boil to one-half. Half a pint, morning and evening, in dropsy. Sydenham.

#### Ointment of Elder Leaves.

R. Fresh elder leaves, three pounds. four pounds. Lard, two pounds. Suet,

Boil the leaves in the lard till crisp; express, strain, add the suet, and melt.

Dub. Ph. 1826.

As a cooling application.

#### Ointment of Elder Flowers.

R. Elder flowers,

Lard, equal parts. Melt, and continue heat, till all moisture is driven off, and express. Used as the last.

## SANGUINARIA.

## BLOODROOT.

This is the rhizome of the Sanguinaria Canadensis, popularly known as bloodroot, or puccoon. It is a small, herbaceous perennial, flowering at the very commencement of the spring; at which time the leaf is small, but attains a large size during the summer.

Sex. Syst. Polyand. monog. Nat. Syst.

Papaveraceæ. Linn. Sp. Pl. 723. Griffith, Med. Bot. 127. The rhizome is horizontal, abrupt, often contorted, of a reddish-brown color externally, and of a bright orange-red within. When dried it is somewhat flattened, much wrinkled and twisted, of a reddish-brown color externally, and of a bright orange within, becoming brown by exposure. The powder is brownish-red. It has a faint, narcotic odor, and a bitterish, acrid taste, which is very persistent. It is an acrid emetic, with narcotic and stimulant prop-erties. Dose, as an emetic, from ten to twenty grains; for other purposes, from one to five grains.

#### Pills of Bloodroot.

R. Powdered bloodroot, one drachm. Conserve of roses, sufficient. Mix, and make thirty pills. One to two as an alterative, etc., five to ten as an emetic.

#### Infusion of Bloodroot.

R. Bloodroot, half an ounce. Boiling water, one pint. Infuse for two hours. Dose, half to one fl. Beasley. ounce.

#### Vinegar of Bloodroot.

R. Bloodroot, in powder, four troyounces. No. 40, Diluted acetic acid, sufficient. Obtain by maceration for seven days, or by percolation, two pints. U. S. Ph. Used in same doses as the tincture.

#### Tincture of Bloodroot.

R. Bloodroot, in powder,

four troyounces. No. 50, Displace with a mixture of three parts of alcohol and one of water, until two pints U. S. Ph. of tincture are obtained.

As emetic, three or four fl. drachms; as expectorant, alterative, etc., thirty to sixty

drops.

R. Bruised bloodroot, two ounces. Spirit of nitrous ether, two pints.

Digest eight days, and filter.

This is a valuable expectorant and diaphoretic, in doses of half a fl. drachm to one fl. drachm.

## Compound Tincture of Bloodroot.

R. Bloodroot, Lobelia, each, in coarse Skunk-cabbage powder, root, one ounce. Asarabacca, Pleurisy root,

Place them in a vessel, and cover with

Boiling water or vinegar, one pint. and cover tightly. When cold, add

Alcohol, three pints.

Macerate fourteen days, and filter. Used Ecl. Med. Jour. as an emetic.

## Syrup of Bloodroot.

R. Coarsely-powdered

bloodroot, eight ounces. Acetic acid, four ounces. Water, five pints. Sugar, (troy) two pounds.

Mix two fl. ounces of the acetic acid with a pint of water, and macerate the root for three days. Transfer to a percolator, and displace with the remainder of the water, previously mixed with the other half of the acetic acid. Evaporate on a water-bath to eighteen fl. ounces, add the sugar, T. S. Wiegand. and form a syrup.

#### SANTALUM.

#### RED SAUNDERS.

This is the wood of Pterocarpus santalinus, a lofty tree, found in the East Indies. It is imported in logs or billets.

Sex. Syst. Diadelph. decand. Nat. Syst. Fabaceæ.

Linn. Suppl. 318. Griffith, Med. Bot. 245. Red saunders is a mild astringent and employed to impart color.

## SANTALUM ALBUM.

#### SANDALWOOD.

This tree is indigenous to India; its wood is heavy, light colored, and fragrant.

Nat. Ord. Santalaceæ.

The wood yields on distillation with water a highly fragrant volatile oil, which is much used in perfumery. This oil has been highly recommended by Dr. T. B. Henderson, Berkeley Hill, and others, as a remedy in gonorrhœa, and is considered as equal or even superior to copaiba and cubebs. It is given in doses of fifteen to thirty minims thrice daily. It is given either in gelatin capsules, or dissolved in three parts of alcohol.

#### Zoll's Pink Paste.

R. Oil of sandalwood, sixty drops. three drachms. copaiba, White turpentine, four drachms.

Gum Arabic, each, one ounce. Mix thoroughly. Maryland Coll. Ph.

#### SANTONICA.

## SEMEN CONTRA. LEVANT WORMSEED.

The unexpanded flowers of various species of Artemisia indigenous to Barbary, Southern Russia, and the Levant have occasionally been used under the above names; but the only kind recognized now by the pharmacopæias is derived from Art. Cina, an herbaceous plant indigenous to Persia.

Sex. Syst. Syng. pol. super. Nat. Syst. As-

teraceæ.

Willkomm, Botan. Zeit., 1872, No. 9.
They are about a line in length, oval, obtuse at both ends, of a greenish-brown color, of a strong, somewhat terebinthinate odor, and a bitter camphoraceous taste, and resembling small seeds in appearance. Santonica has anthelmintic properties. Dose, ten to sixty grains.

#### Powder of Santonica.

R. Santonica. Extract of tansy, each, six grains. Oxide of iron, four grains. Oil of valerian, one drop. Mix. Augustin.

R. Santonica, three drachms. Powdered jalap, thirty grains. Calomel,

tonic; but it is chiefly, if not exclusively, | Mix and divide into six powders. Dose, for a child of six years, one, morning and night. Hufeland.

#### Infusion of Santonica.

R. Santonica, one part. Boiling water, one hundred parts. Macerate until cold, and strain. Dose, one to two fl. ounces. Dorvault.

## Electuary of Santonica.

R. Santonica, ten grains. Sulphate of iron, four grains. Jalap, Honey, each, one scruple. Mix. Rosenstein.

#### Mixture of Santonica.

R. Infusion of santonica, four fl. ounces. Syrup of senna, one fl. ounce. Foy. Mix.

R. Santonica, ninety grains. Hot water, sufficient for making infusion three fl. ounces. Syrup of orange-peel, two drachms. Mix. A tablespoonful every two hours.

Radius.

#### Enema of Santonica.

R. Santonica, four drachms. Valerian, each, Boiling water, sufficient. Make six fl. ounces of infusion, and add Assafetida, forty grains. previously rubbed with the yolk of an egg. Use for two clyster. G. A. Richter.

## Oleoresinous Extract of Santonica.

R. Santonica, bruised, Exhaust with a mixture consisting of equal weights of alcohol and ether; distil and evaporate to a thin extract. Ph. Germ. Dose, five to fifteen grains.

#### Syrup of Santonica.

R. Santonica, one part. sufficient. Boiling water, Obtain ten parts of infusion and dissolve in it nineteen parts of sugar. Dose, two six grains. to four fl. drachms. Dorvault.

## SANTONINUM.

SANTONIN.

R. Santonica, in powder,

No. 40, forty-eight troyounces. Lime, recently slaked,

eighteen troyounces.

Animal charcoal,
Diluted alcohol,
Acetic acid,
Alcohol,

each, sufficient.

Digest santonica and lime with twelve pints of diluted alcohol for twenty-four hours, and express; repeat digestion and expression twice with similar quantities of diluted alcohol. Mix the tinctures, distil and evaporate to eight pints, filter, evaporate to four pints, supersaturate slightly with acetic acid, and after two days, collect the crystalline mass, wash with water, and dry. Boil the mass with ten times its weight of alcohol, digest for several hours with animal charcoal, filter while hot, wash the charcoal with sufficient hot alcohol, and crystallize; dry, and preserve in dark bottles.

U. S. Ph.

It is tasteless at first, afterwards bitter; almost insoluble in cold water; on exposure to light it becomes yellow, but its medicinal properties are said not to be affected by this change. Dose, half to three or even eight grains to adults. Large doses usually produce chromatopsy, the objects of vision ap-

pearing yellow or red.

#### Powder of Santonin.

R. Santonin, six grains.
Sugar of milk, fifteen grains.
Mix, divide into six powders, and give one night and morning, to a child five years old, for lumbrici.

Thomas.

#### Lozenges of Santonin.

R. Santonin, half a troyounce.
Sugar, eighteen troyounces.
Tragacanth, half a troyounce.
Orange-flower water, sufficient.

Bub the powders together, and make four hundred and eighty lozenges. U. S. Ph.

Santonin lozenges of the German pharmacopæia are made with chocolate, weigh one gramme each, and contain each five centigrammes—the weaker, half that quantity, or about three-eighths of a grain—of santonin. Santonin lozenges of *Paris Codex* contain one centigramme of santonin, and are made with sugar, and colored by carmine.

#### Santonate of Sodium.

R. Santonin, two ounces.
Solution of soda, four fl. ounces,
or sufficient.

Digest at about 170° until dissolved, evaporate and crystallize to form prisms containing fifty-four per cent. of santonin.

If the solution be evaporated until a thick pellicle forms, pearly needles containing sixty per cent. of santonin are obtained.

Dondé.

## Syrup of Santonate of Sodium.

R. Santonate of sodium, thirty grains.

Distilled water, one ounce.

Syrup, eighteen fl. ounces.

Concentrate the syrup to 32° B., and add the santonate, previously dissolved in the water. A tablespoonful represents one grain of santonin.

Dondé.

## SAPO.

SOAP.

Soaps are combinations of animal or vegetable oils with one or more of the alkalies; they are principally used for washing, but some of them are officinal.

## SAPO DURUS.

HARD SOAP.

Under the above name officinal in the Brit. Ph., under the name of Sapo in the U. S. Ph., and under the name of Sapo medicatus in the Ph. Germ. It is a combination of olive oil and soda.

## Spanish or Castile Soap.

This is the officinal soap of the U.S. Ph., and presents two varieties, the white and the marbled, the first of which only should be used.

#### SAPO MOLLIS.

SOFT SOAP.

This soap is a combination of olive or other vegetable oils and potassa, or animal oils with the same alkali.

#### SAPO VULGARIS.

COMMON SOAP

Is a hard soap, made from tallow and caustic soda.

or sufficient.

Distilled water, twelve fl. ounces.

Besides these officinal soaps there are many others, which are used medicinally, or for cleansing purposes.

513SAPO.

## Almond Soap.

R. Caustic solution of one thousand parts. soda. Oil of almonds, two thousand one hundred parts.

Mix, and keep the mixture for some days at a temperature of 68° F., stirring from time to time, until it acquires the consistence of a soft paste; place in moulds until dry. It should not be used for medicinal purposes, until it has been exposed to the action of the air for a month or two.

Paris Codex.

## Beef-Marrow Soap.

R. Purified beef

five hundred parts. marrow, Caustic solution of soda,

two hundred and fifty parts. Common salt, one hundred parts. Water, one thousand parts.

Put the marrow, with hot water, into a porcelain vessel, and heat until it is melted; then add the solution of caustic soda, by degrees, constantly stirring, till saponification is complete; then add the salt, slightly stirring, collect the soap which rises, drain it, melt it by a gentle heat, pour into moulds, and allow it to solidify.

Paris Codex.

## Soap of Turpentine. (Starkey's Soap.)

R. Dry carb. of potassium, equal Oil of turpentine, parts. Venice turpentine,

Triturate the potassium with the oil, and then with the turpentine, until the mass has attained a proper consistence. Preserve in an earthenware vessel.

Paris Codex. Was supposed to be a corrector of the injurious effects of opium, hellebore, etc. It is now principally given in gonorrhœa and dropsy. Dose, eight to ten grains.

R. Hard soap, in powder. Oil of turpentine, each, six parts. Carbonate of potassium, one part. Beat together into a uniform mass.

Ph. Germ. Known also as External balsam of life.

## Aromatic Soap.

R. Concentrated solution of soap, six ounces. Oil of bergamot, each, two lavender. drachms. rosemary, 33

Mix. Employed in baths, as a tonic and antispasmodic.

## Camphorated Soap.

R. White soap, sixteen ounces. Boiling water, eight ounces. Olive oil, six ounces. Powdered camphor, one drachm. Dissolve the soap in the water, evaporate

gently to the consistence of a soft paste, add the camphor incorporated in the oil, mix well, and pour into moulds.

Said to be useful in chaps and excoria-Wetzler.

## Cosmetic Soap Powder.

R. White soap, twelve ounces. Carbonate of potassium, two ounces.

Powdered orris root, three ounces. horse-chestnuts,

two pounds.

Oil of lavender,

bergamot, each,

forty drops. thirty drops. lemon, cloves, ten drops. Sugar, half an ounce. Niemann.

Mix, and form a powder.

## Arsenical Soap.

R. Arsenious acid, two pounds. Carbonate of potassium,

twelve ounces. five ounces. Camphor, White soap, two pounds. Powdered lime, eight ounces.

Reduce each to powder, and mix. Used as a preservative for specimens of natural history against the attacks of insects. Known as Beconi's arsenical soap.

Gannal.

#### Soap Cerate.

R. Soap plaster, two troyounces. Yellow wax. two and a half troyounces. four troyounces. Olive oil, Melt together, adding the oil last, and stir till cool. Soap cerate is cooling and sedative.

#### Soap Cerate Plaster.

R. Hard soap, in powder, ten ounces. twelve and Yellow wax, a half ounces. Oxide of lead, one pint (imp.).
Vinegar, one gallon (imp.).
Dissolve the oxide in the vinegar by boiling; add the soap, and boil until most of the moisture is evaporated; then add wax and oil, melt, and mix.

Used like the preceding.

## Camphorated Soap Liniment. (Opodeldoc.)

R. Common soap, sliced,

Camphor, one ounce.
Oil of rosemary,

" origanum, each, one fl. drachm.
Alcohol, one pint.
Digest the soap in the alcohol, on a sand-

Digest the soap in the alcohol, on a sandbath, until dissolved; add the camphor and oils, dissolve, and pour into broad-mouthed bottles.

U. S. Ph. 1850.

Ph. Germ. adds to the above quantity about six drachms of ammonia water.

R. Alkaline tincture of soap,

Spirit of camphor,
Oil of almonds,

Mix.

ten parts.
nine parts.
one part.

Paris Codex.

#### Alkaline Tincture of Soap.

R. White soap, twenty parts. Carbonate of potassium, one part. Alcohol (60 pr. ct.),

one hundred parts.

Paris Codex.

Soap Liniment. (Liquid Opodeldoc.)

Dissolve.

R. Soap, in shavings, four troyounces.
Camphor, two troyounces.
Oil of rosemary, half a fl. ounce.
Water, six fl. ounces.
Alcohol, two pints.

Digest the soap in the water until dissolved; add the alcohol, holding the camphor and oil in solution, and filter. U.S. Ph.

The formula of *Brit. Ph.* is very similar; that of *Ph. Germ.* has about one ounce of ammonia water in the above quantity.

#### Ammoniacal Soap Liniment.

R. Soap, in shavings,
Water,
Alcohol,
Water of ammonia, fifteen parts.
Water of ammonia, fifteen parts.

fifteen ounces. Digest the soap with the water until dissolved; then add the alcohol and ammonia.

Ph. Germ.

Tincture of Soap. (Soap Spirit.)

R. Olive oil soap,
Alcohol,
Rose water,
Dissolve and filter.

One part.
three parts.
two parts.

Ph Germ.

Saponine. (For cleaning gloves.)

R. Powdered soap,

Solution of chlorinated potassa, one hundred and sixty-five parts.
Solution of ammonia, ten parts.
Water,

one hundred and fifty parts.

Mix, and form a paste; a small portion rubbed on a glove with a piece of flannel will cleanse it.

Duvignan.

#### Grease Balls.

R. Fuller's earth,

two pounds four ounces.
Carbonate of sodium,
Soap, each, eight ounces.

Add

Yolks of eggs, eight.
Well beaten with

Ox gall, eight ounces.

Levigate thoroughly, form into cakes or balls, and dry.

Lenormand.

#### Bolus of Soap.

R. White soap, two scruples.
Oil of caraway, two or three drops.
Syrup, sufficient.
Mix, and make two boluses. They are purgative.

Swediaur.

#### Nitrated Pills of Soap.

R. White soap, twenty parts.

Marsh mallow root,
powdered, three parts.
Nitrate of potassium, two parts.

Beat together till well incorporated, and divide into four-grain pills. Paris Codex.
Simple soap pills of Paris Codex contain three grains of soap.

515

## Pills of Soap and Ox Gall.

R. Powdered white soap,

two drachms.

Extract of ox gall, one drachm.

Mix, and incorporate

Powdered guaiacum,

Calomel, each, half a drachm.

Powdered guaiacum

wood, sufficient.

Mix, and make four-grain pills. In gout, one to two, morning and evening.

Vicq D'Azir.

## Compound Soap Pills.

R. White soap,
Ammoniac,
Rhubarb, each,
Aloes,
Assafetida,
Saffran arch thirty siz grains.

Saffron, each, thirty-six grains.

Mix, and make three-grain pills. Purgative and alterative; four to six a day.

Recamier.

R. Powdered opium, half an ounce.
Soap, two ounces.
Beat into a pilular mass, with water. Dose, three to five grains.

U. S. Ph.

## Soap Plaster.

R. Soap, sliced, four troyounces. Lead plaster, thirty-six troyounces.

Rub the soap into a semi-fluid state with water; then mix it with the plaster, previously melted, and boil to proper consistence.

U. S. Ph.

R. Hard soap, six ounces. Lead plaster, thirty-six ounces. Resin, one ounce.

Proceed as above. Brit. Ph.
The plaster of Ph. Germ. contains some yellow wax and a little camphor; that of Paris Codex some white wax.

#### Electuary of Soap, etc.

R. White soap, one drachm and a half-Venice turpentine, one drachm.
Seneka,
Marsh mallow, each, two drachms.
Rob of juniper, sufficient.
Mix. Four teaspoonfuls a day. Vogt.

## Essence of Soap.

R. White soap, twenty-four parts.
Distilled water, thirty-two parts.
Alcohol (.923), sixty-four parts.
Carbonate of potassium, one part.
Essence of lemon, sufficient.

Dissolve the soap in the water and alcohol, add the potassium and essence, and filter.

Used for the toilette.

Soubeiran.

## Camphorated Essence of Soap.

R. White soap, three parts.
Camphor, one part.
Spirit of rosemary, sixteen parts.
Dissolve the camphor, and then the soap, in the spirit. As an embrocation in rheumatic pains, etc.

Guibourt.

## Ethereal Solution of Soap.

R. Beef marrow soap, one part.

Acetic ether, five parts.

Dissolve by aid of a water-bath. Used as an embrocation in rheumatic pains, etc.

## Camphorated Acetic Balsam of Soap.

R. Common soap,
Camphor, each,
Acetic ether,
Oil of thyme,
Dissolve the soap in the ether with the aid of heat; add the camphor, then the oil, and filter. Used as above.

Cottereau.

#### Cataplasm of Soap.

R. Common soap,
Roasted onion,
Mustard, each,
Water,
Heat together, and mix into a cataplasm.
As a maturating application to boils, abscesses, etc.

Roasted onion,
two ounces.
sufficient.
Foy.

## Soap Suppository.

R. Soap,
Common salt,
Honey,
with two ounces.
The one ounce.
Sufficient.

Mix, and form into conical suppositories, and oil them on the surface.

Spielmann.

#### Clyster of Soap.

R. Barley water, six ounces.
White soap, one drachm.
eient. Honey, six drachms.

Vogt. Mix, and dissolve.

Brera.

## Soap of Cod-liver Oil.

R. Cod-liver oil, two ounces.
Caustic soda, two drachms.
Water, five drachms.
Dissolve the soda in the water, and mix the

solution with the oil. Deschamps.

## Ioduretted Soap of Cod-liver Oil.

R. Soap of cod-liver oil, one ounce.

Iodide of potassium, one drachm.

Water, one drachm.

Dissolve the iodide in the water, and add it to the soap.

Deschamps.

## Soap with Sulphur.

R. Soap,
Sulphur, each,
Oil of bergamot, half a drachm.
Water,
Sufficient.
Beat together. As an application in itch.
Frank.

#### Itch Ointment.

R. Brown soap,
Common salt,
Sulphur, each,
Alcohol,
Vinegar,
Chlorinated lime,
One ounce.
half an ounce.
one fl. drachm.
two fl. drachms.

Rub well together. One-fourth to be used night and morning, as a friction. It is effectual, cheap, and inoffensive. *Emory*.

## SARSAPARILLA.

#### SARSAPARILLA.

This is the officinal name for the roots of several species of *Smilax* found in Mexico and various parts of South America. These roots are known in commerce by the names of the places from whence they are shipped, as Para, Honduras, Jamaica, Vera Cruz, etc.

Sarsaparilla, as found in commerce, is in packages, composed of dried roots, several feet in length, about the thickness of a quill, more or less wrinkled, of an ash-gray to a dark-brown color externally, and white to brownish within. The odor is slight but peculiar, the taste is at first mucilaginous, but finally somewhat acrid. It is considered alterative and tonic, but its real action is not well understood. The dose, in powder, is half a drachm to a drachm, three or four times a day.

## Powder of Sarsaparilla and Peruvian Bark.

R. Powdered sarsaparilla, one ounce.

"Peruvian bark,
three drachms.

Carbonate of sodium,

two drachms.

Mix, and divide into sixteen powders. One, thrice a day, as an alterative. Cline.

#### Infusion of Sarsaparilla.

B. Sarsaparilla, bruised, one ounce-Boiling water, one pint. Digest for two hours, in a covered vessel, and strain. U. S. Ph. 1850. One to four fl. ounces, three times a day.

## Alkaline Infusion of Sarsaparilla.

R. Sarsaparilla, bruised,
twelve ounces.
Liquorice root, bruised,
one ounce and a half.
Solution of potassa,
one fl. ounce and a half.
Boiling water,

five pints and a half.

Macerate for twenty-four hours, and strainDose, from eight fl. ounces to one pint daily.

As an alterative.

St. Geo. Hosp.

## Decoction of Sarsaparilla.

R. Jamaica sarsaparilla, cut,
two ounces and a half.
Distilled water, thirty ounces.
Boil for one hour and obtain, after straining, twenty fl. ounces of liquid. Dose, two to ten fl. ounces.

Brit. Ph.
Dose, four to six fl. ounces a day.

## Compound Decoction of Sarsaparilla.

B. Sarsaparilla, sliced and
bruised, six troyounces.
Bark of sassafras, sliced,
Guaiacum wood, rasped,
Liquorice root, bruised,
each, one troyounce.
Mezereon, sliced, three drachms.
Water, four pints.
Boil for fifteen minutes, then digest in a covered vessel at about 200° for two hours, strain, and add water through the strainer to make four pints.

U. S. Ph.

to make four pints. U. S. Ph. Brit. Ph. has the same ingredients, in

somewhat different proportions.

As an alterative and diaphoretic, in sec-

ondary syphilis, cutaneous affections, etc. Dose, four to six fl. ounces three times a

## Feltz's Decoction of Sarsaparilla.

R. Sarsaparilla, bruised, three ounces. half an ounce. Isinglass, Crude antimony (tied in a rag), three drachms.

Water, five pints. Boil to two pints and a half, and strain.

Beasley.

## Vinache's Decoction of Sarsaparilla.

R. Sarsaparilla, bruised, China root, bruised, Guaiacum wood, rasped, one ounce and a half. Crude antimony (in a rag),

two ounces. six pints. Macerate for twelve hours, boil to three pints, and add

Sassafras bark, sliced, Senna, each, half an ounce. Infuse for an hour, strain, let settle, and decant.

#### Lisbon Diet Drink.

R. Guaiacum wood, rasped, one oz. Sarsaparilla, bruised, three ounces. Mezereon, sliced, half an ounce. Crude antimony (in a rag),

> two ounces. twelve pints.

Boil down to eight pints, and add

Water,

Red saunders, rasped, White sandal, rasped,

each, three ounces.

Rosewood, rasped,

Sassafras bark, sliced,

one ounce. Liquorice root, sliced,

half an ounce.

Infuse for four hours, strain, and add syrup according to taste. Foy.

Dose, a pint to two pints a day.

R. Sarsaparilla, bruised, four ounces. Dried walnut-peel, four ounces. Guaiacum, rasped,

one ounce and a half.

Crude antimony (in a rag),

half an ounce. Water, four pints. Boil down to three pints. Pearson. a day.

#### Zittman's Decoction.

R. Sarsaparilla, cut, twelve and a half troyounces. three hundred and Water, twenty-five troyounces.

Digest for twenty-four hours, and add

Alum,

Sugar, each, six drachms, inclosed in a linen rag. Heat by a steambath, in a covered vessel, for three hours, adding towards the close,

Anise, Fennel, each, half an ounce. Senna, three ounces. Liquorice root,

one ounce and a half.

Express, strain, and after several hours decant. It should weigh three hundred and twelve troyounces. Put aside as Strong decoction. Add to the dregs of the strong decoction.

Sarsaparilla, bruised,

fifty drachms. three hundred and Water, twenty-five troyounces.

Heat by a steam-bath, in a covered vessel, for three hours, adding towards the close,

Lemon-peel, each, Cinnamon, Cardamom, three drachms. Liquorice root,

Express, strain, and decant; it should weigh three hundred and twelve troyounces; label, Weak decoction. To be given freely in the treatment of syphilitic and cutaneous affections, in chronic rheumatism, etc. Ph. Germ.

## Jauperand's Decoction.

R. Bruised sarsaparilla, each, two China root, ounces. Crude antimony, Carbonate of potassium,

one drachm.

Sassafras, sliced, each, one ounce. Rhubarb, Peruvian bark,

half an ounce. each. Water, two gallons.

Boil by a gentle fire for eight hours, till twelve pints of decoction are obtained. Let stand for some time, and strain. Advised in scrofula, two fl. ounces three times Bories.

## Extract of Sarsaparilla.

R. Sarsaparilla, in coarse

powder, one pound.
Diluted alcohol, four pints.

Make a tincture by displacement, filter, distil off the alcohol, and evaporate to the consistence of an extract. U. S. Ph. 1850.

Dose, from ten to twenty grains, three or four times a day.

## Fluid Extract of Sarsaparilla.

R. Sarsaparilla, in powder,

No. 50, sixteen troyounces.

Glycerin,

Water, each, four fl. ounces. Alcohol, eight fl. ounces.

Moisten the powder with four fl. ounces of the mixed liquids, pack firmly in a percolator, add the remaining mixture, and macerate for four days. Then with diluted alcohol displace twenty-six fl. ounces, reserving the first ten, add to the remainder four fl. ounces of glycerin, evaporate carefully to six fl. ounces, and mix with reserved portion.

U. S. Ph.

R. Jamaica sarsaparilla,

cut, sixteen ounces. Water, at 160°,

fourteen pints (imp.).

Alcohol, one fl. ounce.

Digest the sarsaparilla twice, using half the water each time, for six hours, express, filter, evaporate by a water-bath to seven fl. ounces, or until the sp. gr. is 1.13; when cold add the alcohol.

Brit. Ph.

Dose, one to two fl. drachms.

## Compound Fluid Extract of Sarsaparilla.

R. Sarsaparilla, in powder,

No. 50, sixteen troyounces. Liquorice root, in powder,

No. 50,

Sassafras bark, in powder,

No. 50, each, two troyounces.

Mezereon, in powder,

No. 50, six drachms. Alcohol, eight fl. ounces.

Glycerin,

Water, each, four fl. ounces.

Mix the liquids, moisten the mixed powders with four fl. ounces, pack firmly in a percolator, and macerate with the remaining liquid for four days; then, with diluted alcohol, obtain two pints of percolate, reserving the first twelve fl. ounces; add four fl. ounces of glycerin to the remainder,

carefully evaporate to six fl. ounces and mix with reserved portion. U. S. Ph.

Dose, one fl. drachm, three or four times a day.

#### Essence of Sarsaparilla.

R. Sarsaparilla, bruised, ten ounces. Distilled water, six pints.

Macerate at a temperature of 120° for six hours and strain; repeat with same quantity of water. Mix the liquors, and evaporate

in china vessels at 160°.

If reduced to ten fl. ounces (or to nine fl. ounces, with one fl. ounce of spirit added), one fl. drachm mixed with seven fl. drachms is equal to the decoction of usual strength. If reduced to five fl. ounces, one fl. drachm is equal to two fl. ounces of decoction.

Hening.

R. Alcoholic extract of

sarsaparilla, one pound. Sherry wine, three pints.

Dissolve and filter. Half a fl. ounce to one fl. ounce, mixed with a quart of water, is equal to the decoction.

Béral.

## Compound Essence of Sarsaparilla.

R. Sarsaparilla, bruised,

Boiling water eight ounces.

Boiling water, sufficient to exhaust the root, by successive macera-

tions; unite the liquors, and evaporate to ten fl. ounces; strain, and add, when cool,

Alcohol (.842),

Tincture of guaiacum,

each, half a fl. ounce.
White wine, one fl. ounce.
Essence of sassafras, twelve drops.
Extract of liquorice, two drachms.

Filter. Dose, a spoonful, morning and evening, in some convenient vehicle.

Cadet.

#### Syrup of Sarsaparilla.

R. Sarsaparilla, cut, ten parts.

Exhaust, by digesting, for twelve hours, twice with sufficient water, evaporate the clear liquid by a water-bath until reduced to sixteen parts, clarify with white of egg, strain, and dissolve

Sugar, twenty parts.

It has the specific gravity of 1.27.

Paris Codex.

R. Alcoholic extract of six ounces. sarsaparilla, four pints. Hot water, Dissolve, filter while hot, strain, and add eight pounds. Dissolve whilst hot. Paris Codex, 1837. Each fl. ounce is equal to fifteen grains of the extract.

## Sarsaparilla Syrup for Mineral Water.

R. Sarsaparilla,

Liquorice root, each, finely bruised, two pounds (av.). Sugar, thirty pounds (av.). Oil of anise,

each, forty wintergreen, drops. sassafras,

cinnamon, five drops. Water, sufficient.

Digest the roots in two gallons of warm water, for twelve hours; then transfer to a percolator, and pass two gallons of infusion. In this dissolve the sugar by the aid of heat, and to the syrup, when cool, add the oils, previously rubbed up with a little A. Smith.

R. Sarsaparilla, bruised, Liquorice root, bruised, each, one pound. Cinnamon, bruised, Sassafras root, bruised, each, six ounces. Cloves, Anise, each. two ounces. Coriander, Red saunders. Cochineal, each, one ounce and a half. Alcohol, two pints. Water, two gallons.

Digest together for four days, strain, and make a syrup with twenty-seven pounds (av.) of sugar. A. Smith.

#### Compound Syrup of Sarsaparilla.

R. Sarsaparilla, in powder,

No. 50, twenty-four troyounces. Guaiacum wood, in powder,

No. 50, three troyounces. Pale rose, ) each, in powder Senna, No. 50, two Liquorice root, troyounces. Oil of sassafras,

gaultheria,

Sugar, ninety-six troyounces. Water, one pint. Diluted alcohol, sufficient.

Macerate the first five ingredients in three pints of the alcohol for four days, transfer to a percolator, and, with diluted alcohol, obtain six pints of tincture; evaporate this to three pints, add the water, filter, dissolve in it the sugar, and strain while hot. Rub the oils with a small portion of the syrup, and incorporate with the remainder.

U. S. Ph.

R. Sarsaparilla, two pounds.

Bittersweet, Pipsissewa, each, half a pound. Guaiacum,

Liquorice root, each, four ounces. Sassafras,

Partridge-berry-leaves,

two pounds. each. Sugar, twelve pounds.

Reduce the ingredients to coarse powder, macerate them in diluted alcohol for two days, put in a displacement apparatus, and displace slowly until two gallons of liquid have passed. Evaporate on a water-bath till reduced to six pints, then add the sugar, Staples. and form a syrup.

Dose, half a fl. ounce three or four times

a day.

## Syrup of Laffecteur.

R. Sarsaparilla, bruised, Marsh-reed grass,

thirty ounces. each, Borage flowers, eight ounces. Senna,

White roses, each, two ounces. Sugar,

Honey, each, six pounds. Water, eighteen pints.

Boil the first two ingredients in half the water for an hour, strain off the decoction, and repeat the process with the remainder of the water, and boil two hours; towards close, add the senna, rose leaves, and borage; strain, mix the decoctions, add the sugar and honey, and boil to the consistence of syrup. Dose, six tablespoonfuls, early in the morning.

R. Sarsaparilla, twenty-four parts. Guaiacum wood, each, sixteen Sassafras root, Chira root, Yellow cinchona, eight parts. Anise, three parts.

anise, each, five minims. Digest the cut and bruised materials for three minims. several hours with

Hot water, two hundred and fifty parts.

Express, filter, and evaporate to eighty parts; then dissolve in the liquid

Sugar, one hundred and thirty parts.

Ph. Germ.

Dose, a tablespoonful several times daily.

## Syrup of Gesnouin.

R. Syrup of sarsaparilla, four pounds.

"senna, three ounces.

Extract of borage, five ounces.

Conserve of elder

berries, one ounce.

Mix, with heat. Four to six spoonfuls, early in the morning, using the infusion of

## Sarsaparilla Beer.

sarsaparilla for a drink.

R. Sarsaparilla, bruised, two pounds.

Bark of guaiacum,
powdered, eight ounces.

Guaiacum wood,
rasped,
Anise,
Liquorice root,

Mezereon, bark of root, two ounces.

Molasses, two pounds.
Cloves, bruised, half an ounce.
Boiling water, four gallons.

Mix, and shake thrice a day. Let ferment; when fully fermented, to be taken in doses of a small tumblerful two or three times a day.

Hancock.

## SASSAFRAS.

#### SASSAFRAS.

Two parts of the Sassafras, Laurus sassafras (Sassafras officinale), are officinal; the pith of the young braches and the bark of the root.

Sassafras is a medium-sized tree, found in most parts of the United States, growing in woods and open places, flowering before the appearance of the leaves.

Sex. Syst. Enneand. monog. Nat. Syst.

Lauraceæ.

Nees, Pl. Med. i. 131. Griffith, Med. Bot.

The pith is in slender, cylindrical pieces, very spongy and light, with a mucilaginous and somewhat aromatic taste, affording a clear mucilage on the addition of water. The bark is in small fragments, of a reddish-brown color, brittle, of a fragrant odor, and a pleasant aromatic taste. The European pharmacopæias recognize the entire root. It is stimulant and diaphoretic.

#### Infusion of Sassafras Bark.

R. Sassafras bark, half an ounce.
Boiling water, one pint.
Macerate for six hours, and strain. As a stimulating diaphoretic.

Niemann.

## Compound Infusion of Sassafras Bark.

- R. Sassafras bark, Liquorice root, two drachms. Boiling water, one pint.

  Infuse. One-half, morning and evening. In scrofulous complaints. Hufeland.
- R. Cut sassafras bark, ninety grains.

  Mezereon, two drachms.
  Taraxacum, three ounces.
  Boiling water, sufficient
  to obtain twenty fl. ounces. Dose, two to
  three tablespoonfuls, in chronic rheumatism.

  Waring.

## Infusion of Sassafras Pith.

R. Sassafras pith, two drachms. Water, one pint.

Macerate for three hours, and strain. As a soothing application in ophthalmia, and as a demulcent drink in diseases of the bowels, lungs, and bladder. U. S. Ph.

## Tincture of Sassafras.

R. Sassafras bark, sliced, one part.
Alcohol, six parts.

Macerate for three days, express, and filter.
Dose, one fl. drachm.

Béral.

#### Compound Tincture of Sassafras.

R. Sassafras bark, bruised,

Sage, two ounces.
Nutmeg, bruised, one ounce.
Cinnamon, bruised, half an ounce.
Star anise, three drachms.
Alcohol, two pints.

Macerate for three days, express, and filter. Wirt. Ph.

As a stomachic and carminative.

#### Oil of Sassafras.

R. Bruised sassafras bark, at will. Water, sufficient.

Distil, and collect the oil which sinks to the bottom of the product. Guibourt.

Dose, two to ten drops, as a carminative and stimulant.

#### SCAMMONIUM.

#### SCAMMONY.

This is the resinous exudation of the root of Convolvulus scammonia, a twining perennial plant, a native of Syria. It has a large, succulent root, affording a milky juice, which concretes by exposure to the air. The root is likewise officinal in several European pharmacopæias.

Sex. Syst. Pentand. monog. Nat. Syst.

Convolvulaceæ.

Linn. Sp. Pl. 218. Griffith, Med. Bot. 477. The best, or virgin scammony, is light, resinous when broken, friable, not effervescing with an acid, of various shades of color, from dark ash to dark olive; forming an emulsion with water. The odor is peculiar and unpleasant, resembling old cheese; the taste is bitterish and acrid. It is an active purgative, causing pain, and usually operating with harshness when given alone, but much milder in combination. The dose is from five to fifteen grains.

#### Powder of Scammony and Cream of Tartar.

R. Powdered scammony,
Cream of tartar, equal parts.

Mix. Ed. Ph.
Dose, fifteen to thirty grains.

## Powder of Scammony and Soot.

R. Powdered scammony,
one drachm.
Soot, one drachm and a half.
Powdered resin, two drachms.
Mix. Dose, twenty to thirty grains.

Beasley.

## Compound Powder of Scammony.

R. Scammony, in powder,

Jalap, in powder, Ginger, in powder, one ounce.

Mix thoroughly and pass through a fine sieve. Dose, ten to twenty grains.

Brit. Ph.

Copland.

## Pills of Scammony.

R. Powdered scammony,
fifteen grains.
Sugar, ten grains.
Rub together, and add
Oil of caraway, four minims.
Make ten pills. Dose, three pills.

## Pills of Scammony and Ox Gall.

R. Powdered scammony, two drms.
Inspissated ox gall, three drms.
Extract of gentian, half an ounce.
Mix, and make one hundred and sixty-two
pills. Dose four to six a day. Cadet.

## Compound Pills of Scammony.

R. Powdered scammony,
Extract of henbane,
Powdered gamboge,
Compound extract of
colocynth,
Soap,
Water,
Sufficient.
Beat into mass, and form twelve pills.

B. Scammony, twenty-four grains.
Aloes,
Camboga each twelve grains

Gamboge, each, twelve grains.
Ginger, one scruple.
Molasses, sufficient.

Rub together, and divide into twelve pills. St. Bart.'s Hosp.

R. Scammony,
Calomel, each,
Gamboge,
Confection of rose,
Mix, and make four pills.

Calomel, each,
four grains.
sufficient.

Jourdain.

## Confection of Scammony.

R. Scammony, in fine

powder, three ounces.

Ginger, in fine

powder, one ounce and a half.

Oil of caraway, one fl. drachm.

"cloves, half a fl. drachm.

Syrup, three fl. ounces.

Clarified honey, one ounce

and a half.

Rub the whole into a uniform mass, adding the oils last. Dose, twenty to thirty grains. Brit. Ph.

R. Powdered scammony,

" jalap,
each, two drachms.
squill,
one drachm and a half.

" resin of jalap,

half a drachm.

Syrup of buckthorn, sufficient.

Mix, and form confection. A hydragogue purgative, in dose of ten grains to a scruple.

Fou.

## Resin of Scammony.

R. Scammony, in fine

powder, six troyounces.

Digest with successive portions of boiling alcohol until exhausted; reduce to a syrupy consistence by distillation add to a pint of

consistence by distillation, add to a pint of water, wash the precipitate thoroughly, and dry.

U. S. Ph.

R. Scammony root,

in coarse powder, eight ounces. Exhaust with alcohol by digestion and percolation; add to the tincture four fl. ounces of water, recover the spirit by distillation, transfer the residue while hot to an open dish, wash the resin with hot water, and dry.

Brit. Ph.

Dose, three to eight grains.

## Emulsion of Scammony.

R. Resin of scammony, four grains.
Unskimmed milk, two fl. ounces.
Triturate the resin with a little of the milk, and gradually add the rest.

Brit. Ph.
Half a fl. ounce or more for a child.

## Compound Emulsion of Scammony.

R. Scammony, fifteen grains. Sugar, four drachms.

Triturate, and add gradually

New milk, four fl. ounces. Cherry-laurel water,

seventy minims.

Dose, two fl. ounces or more. Paris Codex.

#### Scammony Mixture.

R. Resin of scammony,

twelve grains.

Spirit of rosemary,

one fl. drachm.

Orange-flower water, Syrup of peach-flowers,

each, one fl. ounce.

Mix.

Cadet.

#### Scammony Oil.

R. Powdered scammony, one scruple.
Oil of almonds, one ounce.
Rub well together. Dose, half an ounce.
Van Mons.

#### Elixir of Scammony.

R. Scammony, two drachms.
Proof spirit, eight fl. ounces.
Heat, and then set fire to the spirit, and add

Sugar, four ounces.

When it is dissolved, extinguish the flame, and add

Syrup of violets, two fl. ounces. Filter. It will give ten ounces, containing twelve grains of scammony to the ounce.

Guibourt.

## Soap of Scammony.

R. Scammony, one drachm.
Soap, two drachms.
Alcohol (.874), two fl. ounces.
Dissolve by means of a water-bath, filter, and evaporate to a pilular consistence.

Guibourt.

#### Purgative Pastilles.

R. Scammony, six grains.
Tincture of senna, forty drops.
Carbonate of magnesium,

White sugar, eight scruples.
Powdered liquorice, eight grains.
Gum tragacanth,
Oil of anise,
Syrup of violets,
five scruples.
eight scruples.
five grains.
for anise,
sufficient

to make eight pastilles. These are known as Pastilles de Santé, and are useful in cases of acid eructation and flatulence. One or two, taken early in the morning, act as a laxative; by repeating the dose every quarter of an hour, full purgation ensues.

Delvincourt.

#### Purgative Chocolate.

B. Chocolate, five drachms.
Scammony resin, six grains.
Calomel, one and a half grains.
Sugar, half a drachm.

Triturate the scammony and sugar together in a mortar; then add the calomel, and, when thoroughly mixed, add the chocolate, previously softened by the heat of a water-bath. Make into forms. To be taken dry, and followed by some bland liquid.

Mialhe.

## SCILLA.

#### SQUILL

Is the bulb of Scilla maritima (Urginea scilla), a perennial plant growing near the sea-coast of the countries bordering on the Mediterranean. The bulb is large, pyriform, and tunicated; there are two varieties, the red and the white, but identical in their medical qualities.

Sex. Syst. Hexand. monog. Nat. Syst. Liliacese.

Linn. Sp. Pl. 442. Griffith, Med. Bot. 652. The bulb is sliced and dried for use; in this state it is in white, or yellowish-white, semitransparent pieces, which are flexible when moist, but brittle when dry; of a mucilaginous, bitter taste, but scarcely any odor.

Squill is expectorant, diuretic, and in large doses emetic, and even purgative. Dose, as a diuretic or expectorant, one grain two or three times a day; as an emetic, six

to twelve grains.

## Powder of Squill and Nitre.

R. Powdered squill, six grains.

"nitre, one drachm.

Mix, and divide into six powders. One, three times a day, in sugar and water. As a diuretic.

Ellis.

## Powder of Squill and Ipecacuanha.

R. Powdered squill, ten grains. ipecacuanha,

eighteen grains.

Mix, and divide into sixteen powders. One, every two hours, in chronic catarrh. Foy.

## Powder of Squill and Cream of Tartar.

R. Powdered squill, one drachm.
Cream of tartar, nine drachms.
Mix. Twenty to thirty grains two or
three times a day, as a diuretic.

Guy's Hosp.

## Powder of Squill and Sulphur.

R. Powdered squill, one part.
Sulphur, two parts.
Powdered sugar, three parts.
Mix. Dose, from five to twenty grains, according to age, in catarrhs.

Guibourt.

#### Powder of Squill and Calomel.

R. Powdered squill, three grains.
Calomel,
Powdered gamboge,
each, half a grain.
Mix. To be taken in the evening. As a diuretic.

A. Cooper.

#### Compound Powder of Squill.

R. Powdered squill,

"foxglove,
each,
Oil of juniper,

we der of Equals.

one grain.
two drops.

Borate of sodium,
Powdered liquorice,
each,
Powdered cinnamon, two grains.
Mix. To be repeated two or three times a day, as a diuretic.

Radius.

R. Powdered squill, foxglove,

each, two grains.
Resin of jalap, six grains.
Acetate of potassium,

thirty grains.

Sulphate of sodium, two drachms.

Mix. To be taken early in the morning, as a purgative and diuretic.

Bories.

## Pills of Squill and Calomel.

R. Calomel,
Powdered squill,
each, twelve grains.
Conserve of roses, sufficient.
Mix, and form twelve pills. One, night and morning. In dropsy, arising from visceral derangement.

Ellis.

## Pills of Squill and Ammoniac.

R. Powdered squill, thirty grains.
Ammoniac, one drachm and a half.

Extract of hemlock, thirty grains. Mix, and form thirty pills; two, twice a day. In asthma and chronic catarrh.

Ellis.

## Pills of Squill and Croton Oil.

R. Compound pills of squill,

two scruples.
extract of colocynth,
two scruples.

Croton oil, six minims.

Mix, and form eighteen pills. Three, twice a week, in dropsy.

Selwyn.

#### Pills of Squill and Ipecacuanha.

R. Powdered squill, sixteen grains.

"ipecacuanha, eight grs.
Extract of opium, one grain.
Butter of cacao, thirty grains.
Syrup of gum, sufficient.
Beat together, and make sixteen pills. One, three times a day, as an expectorant.

Cadet.

R. Powdered squill,
"ipecacuanha,
each, twelve grains.

Extract of dandelion,

Blue pill,

three scruples. ten grains. sufficient. Simple syrup,

Mix, and make twenty-four pills. Two, to be taken morning and evening, in dropsy. Ainslie.

## Pills of Squill and Henbane.

R. Powdered squill, half a drachm. Extract of henbane, two scruples. one drachm and a half. Myrrh, Water, sufficient.

Beat together, and make thirty pills. Two, morning and evening, as an expectorant.

Paris.

## Pills of Squill and Digitalis.

R. Powdered squill,

digitalis,

each, thirty grains. sixty grains. iron,

Mix, and make forty pills. Dose, two to six daily, in albuminuria. Chomel.

R. Powdered squill,

66 digitalis,

each, twelve grains. Blue mass. thirty grains. Mix, and form twelve pills. One, three or four times daily, in dropsy, anasarca, etc. Baillie.

Compound Pills of Squill.

R. Calomel, three grains. Fresh squill, Ammoniac, each, one scruple. Dover's powder, half a drachm. Conserve of roses. sufficient. Make mass, and divide into thirty pills. One, three or four times a day. In troublesome catarrh. Latham.

R. Powdered squill, half a drachm. twenty-four grains. Calomel, Tartar emetic. six grains. Powdered opium, eighteen grains. Syrup, sufficient. Beat together, and make twenty-four pills. One at night, in catarrh. Ellis.

R. Powdered squill, twelve grains.

ginger, 66

ammoniac, twenty-four grains. Soap, in powder, thirty-six grs. Syrup,

Beat into mass, and form twenty-four pills. U. S. Ph.

R. Powdered squill, one ounce and a quarter.

> ginger, each. 66 ammoniac, one ounce.

soap, Molasses, sufficient.

Beat into a mass. Brit. Ph. Similar to the preceding, but containing

about twice the proportion of squill. Five to ten grains, three or four times a

day, as a stimulant expectorant.

R. Powdered squill, fifteen grains. ammoniac,

one drachm and a half.

seneka, two drachms.

Golden sulph. of antimony,

half a drachm.

Extract of dandelion, sufficient. Mix, and make pills of two grains. Diuretic. Berends.

R. Powdered squill, twenty-four grs. sixteen grains. Calomel, one drachm and a half. Soap, Galbanum, two drachms. Extract of dandelion,

three drachms and a half. Essence of orange, sufficient.

Mix, and make pills of two grains. Three or four a day, as purgative and diuretic.

Pideret.

## Compound Syrup of Squill.

R. Squill, in powder, No. 50, Seneka, in powder, No. 50, four troyounces. Tartar emetic, forty-eight grains. Sugar, forty-two troyounces. Diluted alcohol, sufficient. Water, each,

Mix squill and seneka, moisten with half a pint of the alcohol, and macerate for four days; then obtain by percolation one pint of tincture. Boil for a few minutes, evaporate by a water-bath to half a pint, add fourteen fl. ounces of boiling water, and filter. Dissolve in this the sugar, heat to boiling, and strain; lastly, dissolve the tartar emetic, and add through the strainer enough water to make the measure three pints.

Known as Coxe's Hive Syrup. Dose, as an expectorant, twenty to thirty drops, sufficient. | for adults; for children, five to ten drops; in croup, ten drops to a fl. drachm, repeated | Digest by a gentle heat, for four days, extill vomiting is produced.

one fl. ounce R. Oxymel of squill, and a half.

Syrup of ipecacuanha,

two poppies, each, fl. ounces.

orange-flowers, half an ounce.

Mix. Dose, half to one fl. ounce, in hoop-Cadet. ing-cough.

## Wine of Squill.

three ounces. R. Squill, Malaga wine, fifty ounces. Macerate for ten days, express, and filter. Paris Codex.

## Compound Wine of Squill.

R. Bruised squill, one ounce.

orange-peel,

calamus, each, three drachms.

juniper berries, two drachms.

White wine, four pints. Macerate for three days, express, filter, and

Oxymel of squill, two fl. ounces. Mix.

R. Dried squill, bruised, each, one Rhubarb, drachm. Juniper berries, Cinnamon, three drachms. Zedoary, two drachms. Carbonate of potassium,

one drachm and a half. White wine, two pints. Macerate, express, and filter. Dose, two to four small wineglassfuls a day, as a diuretic. Taddei.

## Bitter Wine of Squill.

R. Squill, Root of swallowwort, half an ounce. each, Peruvian bark, ) each, two Canella, ounces. Lemon-peel, Angelica, half an ounce. Wormwood, Balm, each, one ounce. Juniper berries, Mace, each, half an ounce. White wine, eight pints.

press, and filter. As a diuretic, in doses of one to three fl. ounces. Cottereau.

## Tincture of Squill.

R. Squill, in powder,

No. 40, four troyounces. Diluted alcohol, sufficient.

Obtain by percolation two pints. U. S. Ph. The tincture of Brit. Ph. is of nearly the same strength; Paris Codex and Ph. Germ. order one part of squill to five parts of 60 per cent. alcohol.

Dose, as diuretic or expectorant, twenty

to forty drops.

## Alkaline Tincture of Squill.

R. Squill, two ounces. Solution of potassa, two fl. drachms. Diluted alcohol, twelve fl. ounces. Macerate for three days, express, and filter. Van Mons.

## Tincture of Squill and Elaterium.

R. Tincture of squill, Vinegar of colchicum, two fl. drachms. each, Spirit of nitrous ether, one grain. Elaterium, Mix. Dose, fifteen minims to one fl. drachm. St. Bart.'s Hosp.

## Compound Tincture of Squill and Benzoin.

R. Squill, each, three ounces. Orris root, Elecampane, two drachms. Benzoin, Liquorice root, each. four Anise, scruples. Myrrh, two scruples. Ammoniac, Saffron, eighteen grains. Diluted alcohol,

one pint, six fl. ounces. Macerate for fifteen days, express, and filter. Celebrated as Wedel's elixir. Dose, forty to sixty drops, in catarrh, asthma, Cadet. etc.

#### Ethereal Tincture of Squill.

R. Squill, one ounce and a half. Muriatic ether, Spirit of juniper, half a pound. each, sufficient. Water,

expectorant.

Distil one pound. Dose, ten to twenty drops, in water, as a diuretic. Augustin.

R. Bruised squill, four ounces.
Spirit of nitrous ether, two pints.
Digest for eight days, and filter. Dose, half
a fl. drachm, as an expectorant and diuretic.

Mettauer.

## Mixture of Syrup of Squill.

R. Syrup of squill, half a fl. ounce. Paregoric elixir, two fl. drachms. Antimonial wine, one fl. drachm. Powdered gum Arabic,

half a drachm.

Distilled water, three fl. ounces.

Mix. A teaspoonful every two or three hours, as an expectorant; suited to children.

Ellis

R. Syrup of squill,
Peppermint water,
each, two fl. ounces.
Paregoric elixir,
Compound spirit of
lavender, each, half a fl. ounce.
Syrup, one fl. ounce.
Mix. A spoonful three or four times a

day. A valuable expectorant.

Christison.

#### Diuretic Mixture.

R. Oxymel of squill, half a troyounce. Peppermint water, one troyounce. Hyssop water, three troyounces. Spirit of nitrous ether,

half a drachm.

Mix.

Paris Codex.

## Mixture of Oxymel of Squill and Valerian.

R. Powdered valerian, two drachms.
Oxymel of squill, one fl. ounce.
Laudanum, twenty drops.
Water, one fl. ounce.
Mix. A teaspoonful every hour, after an emetic, in croup.

Kimbel.

## Mixture of Extract of Squill and Rhubarb.

R. Extract of squill, sixteen grains.
Liquid acetate of potassium,
half an ounce.
Parsley water, four fl. ounces.
Syrup of rhubarb, one fl. ounce.
Mix. As a diuretic.

Radius.

## Mixture of Oxymel of Squill and Ammoniac.

R. Oxymel of squill, six fl. drachms.
Ammoniac, one drachm.
Extract of elecampane,
twenty-four grains.
Syrup of hyssop, six fl. drachms.
Hyssop water, four fl. ounces.
Mix. A tablespoonful every hour, as an

## Mixture of Vinegar of Squill.

R. Vinegar of squill, one fl. drachm.

Barley water, five fl. ounces.

Syrup of saffron, one fl. ounce.

Mix. A tablespoonful three or four times a day, in troublesome cough.

Ainslie.

## Mixture of Vinegar of Squill and Ammonia.

R. Vinegar of squill, two fl. drachms.
Solution of acetate of ammonia,
Compound spirit of horse-

radish, each, one fl. ounce and a half.

Diluted pimento water,
four fl. ounces and a half.

Mix. Dose, two fl. ounces three times a
day. As a diuretic. St. Bart.'s Hosp.

## Mixture of Oxymel of Squill and Ipecacuanha.

R. Ipecacuanha, one drachm and a half.

Lemon-peel, two drachms.

Cream of tartar, half an ounce.

Water, four fl. ounces.

Boil, strain, and add

Oxymel of squill, half a fl. ounce. Mix well; as an expectorant. Cadet.

## Mixture of Oxymel of Squill and Marsh Mallow.

R. Oxymel of squill,
Syrup of marsh mallow,
Mucilage of gum Arabic,

Mix. As an expectorant; in spoonful doses.

Foy.

## Emulsion with Squill.

R. Oil of almonds,
Mucilage of gum Arabic,
each,
one fl. ounce.

Wine of squill, eight fl. scruples. R. Powder of squill ipecacuanha, four fl. scruples. two fl. ounces. Syrup of tolu, Water of hyssop, four fl. ounces. eight fl. ounces. Water, Béral. Make an emulsion.

## Ointment of Squill.

three ounces. R. Squill, sufficient. Solution of potassa, Reduce to mucilage by boiling, and add Lard. sufficient to form an ointment. As a friction to indolent tumors. Hufeland.

## Fluid Extract of Squill.

R. Squill, in powder,

No. 40, sixteen troyounces. Glycerin, two fl. ounces. Alcohol. fourteen fl. ounces.

Macerate in a percolator for four days; then with a mixture of two measures of alcohol and one of water, displace twentyfour fl. ounces, reserving the first fourteen, evaporate the remainder to two fl. ounces, and mix with reserved portion. U. S. Ph.

Each minim represents one grain of

squill.

## Extract of Squill.

R. Squill, one pound. Proof spirit, four pints. Macerate for some days, express, strain, and filter; digest the residue with two pints of spirit, express, strain, and filter. Distil off the spirit, and evaporate to proper consistence. Dose, one to three grains.

Ph. Germ. and Paris Codex.

## Acetic Extract of Squill.

R. Bruised squill, one pound. Acetic acid, three fl. ounces. Distilled water, one pint. Mix; digest with a gentle heat for fortyeight hours, express by strong pressure, and evaporate, without straining, to the proper consistence. Dose, half a grain. Niblett.

## Electuary of Squill.

R. Oxymel of squill, two fl. ounces. Cream of tartar, three ounces. Mix. Dose, two drachms. Beasley.

each, and nitre, two Ammoniac, drachms. Tartrate of potassium, Chloride of ammonium,

one scruple. Syrup of cinnamon, sufficient. Mix. Dose, two drachms three times a day, in dropsy. Radius.

### Vinegar of Squill.

R. Bruised squill, four ounces. Diluted acetic acid, sufficient. Obtain by maceration for seven days, or by displacement, two pints. U. S. Ph. The vinegar of Brit. Ph. is of about the same strength.

R. Squill, cut small, one part. Alcohol, one part. Pure vinegar nine parts. Macerate for three days, express lightly, Ph. Germ. Diuretic and expectorant. Dose, thirty

## Oxymel of Squill.

R. Vinegar of squill,

minims to a fl. drachm.

twenty fl. ounces.

Clarified honey, thirty-two ounces (avoir.). Mix, and evaporate by water-bath to the Brit. Ph. specific gravity 1.32.

Dose, half to two fl. drachms.

#### Honey of Squill.

R. Squill, one part. Boiling water, six parts. twelve parts. Honey, Infuse the squill in water for twelve hours, express, strain, evaporate to one-third, add honey and evaporate to the density 1.27. Paris Codex.

Syrup of Squill.

R. Vinegar of squill, one pint. Sugar, twenty-four troyounces. Mix, and form syrup. U. S. Ph. and Brit. Ph. As expectorant. Dose, about a fl. drachm.

## Aromatic Syrup of Squill.

half a pound. R. Vinegar of squill, Syrup of cinnamon, ginger, each, one pound. Mix. As a stimulating expectorant. Swediaur.

#### SCOPARIUS.

#### BROOM.

This is the fresh tops of the Sarothamnus scoparius (Cytisus scoparius), a shrub, native of many parts of Europe, and cultivated in this country, with numerous, bright-yellow

Sex. Syst. Diadelph. decand. Nat. Syst. Fabaceæ.

Link, enum. ii. 241. Griffith, Med. Bot.

The officinal portion is the tops of the branches, but the seeds are also used. The branches have a bitter, nauseous taste, and a strong, peculiar odor. It is a diuretic and cathartic, and even emetic, and has been advantageously used in dropsy. The seeds have been recommended in the same complaint.

#### Decoction of Broom.

R. Broom tops, one ounce. Boiling water, one pint (imper.). Boil for ten minutes, and strain. Brit. Ph. Dose, two to four fl. ounces three times a day.

## Compound Decoction of Broom.

R. Broom tops,

Juniper tops, each, half an ounce. Cream of tartar,

two drachms and a half. Water, one pint and a half. Boil down to a pint, and strain. Ed. Ph.

R. Broom tops, half an each. Juniper berries, ounce. Dandelion root, Water, one pint and a half.

Boil down to a pint, and strain.

Lond. Ph. 1836.

Dose, same as infusion.

## Juice of Broom.

R. Fresh broom tops, seven pounds. Bruise in a stone mortar, press out the juice, and to every three measures of juice add one measure of alcohol; after several days, filter. Dose, one to two fl. drachms. Brit. Ph.

#### Extract of Broom.

R. Tops of broom, at will. Boil, in eight times their weight of water, down to one-half; express, let settle, and strain. Evaporate by vapor-bath to proper Dub. Ph. 1826. consistence.

Dose, a scruple to a drachm.

#### Conserve of Broom.

R. Broom flowers, one part. Sugar, two parts. Rub together. Dose, a drachm to two drachms, in gout, rheumatism, etc. Van Mons.

#### Tincture of Broom Seed.

R. Broom seed, two ounces. Proof spirit, eight fl. ounces. Macerate for ten days. Dose, one or two fluidrachms thrice daily. Pearson.

## SCROPHULARIA NODOSA.

#### FIGWORT.

A semi-aquatic plant, native of many parts of Europe, flowering in July.

Sex Syst. Didyn. angios. Nat. Syst. Scrophulariaceæ.

Linn. Sp. Pl. 863. Griffith, Med. Bot.

The leaves are the part used; they have a rank, unpleasant odor, and a bitter, disagreeable taste. They have been used as a tonic, diuretic, and anthelmintic, but are principally used as an external discutinent application.

## Ointment of Figwort.

R. Fresh leaves of figwort,

Prepared lard, each, two pounds. suet, one pound.

Boil till the leaves are crisp, express, and Dub. Ph. 1826.

As an application to piles, painful swellings, and cutaneous eruptions.

## Oleo-Infusion of Figwort.

R. Leaves of figwort, three parts. Olive oil, one part. Infuse, express, and strain. Used as above. Van Mons.

#### SCUTELLARIA.

## SCULLCAP.

Several species indigenous to this country have been used in medicine; the one recognized by the U. S. Ph. is S. lateriflora.

Sex. Syst. Didyn. Gymnosp. Nat. Syst.

Labiatæ.

It is a smooth herb, growing in moist localities, with small blue flowers in leafy racemes; almost inodorous and tasteless. It was at one time asserted to have proved efficacious in hydrophobia; but appears to possess merely mild tonic properties. S. pilosa and integrifolia have a more decided bitter taste, and have been used somewhat as tonics.

## SENEGA.

#### SENEKA.

The officinal name for the root of *Polygala* senega, a native, perennial plant, found in most parts of the United States, on hill sides and in dry woods, flowering from June to August.

Sex. Syst. Diadelph. octand. Nat. Syst.

Polygalaceæ.

Linn. Sp. Pl. 990. Griffith, Med. Bot.

The root is contorted, knotted, tapering, branched, with a ridge or carina. It has a thick, resinous, grayish-yellow, cortical layer, which is the active portion. It has a peculiar, but unpleasant odor; and a mucilaginous, sweetish taste, which becomes acrid and irritating. Its action is very various, being emetic, sudorific, diuretic, and expectorant, and even emmenagogue and purgative. It is principally used as a stimulating expectorant and diuretic. The dose, in powder, is from ten to twenty grains, but it is seldom given in this form.

## Compound Powder of Seneka.

R. Powdered seneka, half an ounce.
Cream of tartar, six drachms.
Magnesia, two drachms.
Mix. A teaspoonful twice a day, in pannus of the eye.

Radius.

#### Pills of Seneka.

R. Powdered seneka, six drachms.
Extract of dandelion, sufficient.
Mix, and make pills of two or three grains.
Six to twelve, three times a day, in hypopyon and pannus.

Radius.

#### Infusion of Seneka.

R. Seneka, bruised, half an ounce.
Boiling water, ten ounces.
Infuse for one hour in a covered vessel, and strain.

Brit. Ph.
Dose, one to two fl. ounces.

#### Compound Infusion of Seneka.

R. Seneka, two drachms.
Boiling water, six fl. ounces.

Infuse, strain, and add

Syrup of tolu. one fl. ounce.

Syrup of tolu, one fl. ounce.
Ammoniac, half a drachm.

Mix well. A tablespoonful every two hours. In catarrh.

Ellis.

#### Decoction of Seneka.

R. Seneka, bruised, one troyounce. Water, sufficient.

Boil for fifteen minutes and strain to obtain one pint. U. S. Ph. Dose, a tablespoonful every three hours.

R. Seneka, bruised, one ounce.
Liquorice root, half an ounce.
Distilled water, one pint and a half.
Boil down to a pint, and strain. Dose, a tablespoonful, in pectoral diseases. Ellis.

R. Bruised seneka, one ounce.
Orange-peel, half an ounce.
Water, one pint.
Simmer by a slow fire, till reduced onethird; add orange-peel; cover till cold, then
strain. Four fl. ounces during the day, at
first, and then increase, as an emmenagogue.

Chapman.

## Tincture of Senega.

R. Senega, in coarse

powder, two and a half ounces.

Proof spirit, sufficient.

Obtain by maceration and displacement twenty fl. ounces. Dose, half to two fl. drachms.

Brit. Ph.

## Syrup of Seneka.

R. Seneka, in powder,

No. 50, four troyounces.

Sugar, fifteen troyounces.

Diluted alcohol, two pints.

Displace the seneka with the alcohol, evaporate the tincture at or below 160° to half a pint, filter, dissolve the sugar, and strain while hot.

U. S. Ph.

Dose, half to one or two fl. drachms, in pectoral complaints. It is about five times stronger than the next.

R. Senega, cut, two parts.

Water, twenty-two parts.

Alcohol, three parts.

Macerate for two days, express, filter, and add

Sugar, thirty-six parts.

Dissolve. Ph. Germ.

#### Fluid Extract of Senega.

R. Senega, in powder, No. 60,
sixteen troyounces.
Glycerin, three fl. ounces.
Water, five fl. ounces.
Alcohol, eight fl. ounces.
Macerate the senega properly packed in a

Macerate the senega, properly packed in a percolator, for four days with the mixed liquids; then, with diluted alcohol, obtain

twenty-four fl. ounces of percolate; reserving the first fourteen, add to the remainder one fl. ounce of glycerin, evaporate carefully to two fl. ounces and mix with reserved portion.

U. S. Ph.

Dose, ten to twenty minims.

## Extract of Senega.

R. Senega, in powder, No. 50,

Diluted alcohol, sufficient.

Obtain by percolation three pints of tincture; evaporate this by a water-bath to the proper consistence.

Dose, one to five grains. The extract of

Ph. Germ.

### Emulsion with Seneka.

R. Bruised seneka, half an ounce. water, nine fl. ounces.

Beil down one-third, strain, and add

Camphor, one scruple. Gum Arabic, two drachms.

Make an emulsion, and add

Compound tincture of ammonia, two fl. drachms.

A tablespoonful every two hours, as a stimulating expectorant. Phæbus.

## Pectoral Jelly with Seneka.

R. Bruised seneka, two drachms.
Water, twelve fl. ounces.
Boil down to nine fl. ounces, strain, and

Isinglass, sufficient. Syrup of orange flowers,

one ounce.

Form a jelly. A tablespoonful occasionally. Radius.

#### Mixture with Seneka.

R. Seneka, bruised, two drachms. Water, sufficient to obtain eight fl. ounces of strained decoction; add

Camphor, one drachm.

Mix. A tablespoonful occasionally.

Brera.

R. Infusion of seneka, four fl. ounces. Syrup of ipecacuanha, one fl. ounce. Oxymel of squill, three fl. drachms. Tartar emetic, one grain and a half.

Mix. A tablespoonful every quarter of an hour, till vomiting is produced. In croup. Jadelot.

R. Bruised seneka,

one drachm and a half.
Boiling water, sufficient
to obtain four fl. ounces of the strained decoction; add

Antimonial wine, two fl. scruples. Syrup of marsh mallow,

one fl. ounce.

A small spoonful occasionally, in the second stage of croup, as an expectorant.

Wendt.

R. Spirit of nitrous ether,

two fl. drachms.

Tincture of hyoscyamus,

ninety minims.

Decoction of senega,

three fl. ounces.

Camphor water, sufficient for four fl. ounces. Mix. Dose, a fluid-ounce thrice daily, in palpitation arising from aortic disease.

Barlow.

R. Decoction of senega,

two fl. ounces and a half.

Carbonate of ammonium,

eight grains.

Tincture of squill,

sixteen minims.

Syrup of tolu, three fl. drachms.

Mix. Dose, three fl. drachms every four hours for a child of two or three years, as an expectorant in croup.

West.

#### Polygalic Acid.

R. Seneka, in powder, sixteen ounces.
Alcohol (35° B.), six pints.
Ether, sufficient.
Purified animal charcoal,

two ounces.

Boil the seneka in four pints of the alcohol for fifteen minutes; suffer it to cool, then throw the whole on a displacement filter, and when the liquid ceases to pass, add more alcohol, until six pints of tincture are obtained. Distil off the alcohol till of a syrupy consistence, wash this with ether, to remove fatty matter, and throw the residue into several times its bulk of concentrated alcohol. After standing for twenty-four hours, the polygallic acid will be precipitated as a light brown powder, which is to be collected on a filter, washed with cold, strong alcohol, and dried. It may be rendered more pure by boiling it with alcohol and the animal charcoal, filtering, and collecting the powder. W. Procter, Jr.

Syrup of Polygalic Acid.

R. Polygalic acid, eight grains. Boiling water, half a fl. ounce. Syrup of gum Arabic,

one fl. ounce and a half.

Dissolve and mix.

Dose, a teaspoonful.

W. Procter, Jr.

## SENNA.

#### SENNA.

Under this name is included the leaves of several species of Cassia, as C. acutifolia, C. elongata, C. obovata, etc., forming what are termed Alexandria, Tripoli, India, and Mecca sennas. They are all perennial plants, growing in Africa and Asia.

Sex. Syst. Decand. monog. Nat. Syst.

Fabaceæ.

Christison, Dispen. 858. Griffith, Med.

Bot. 254.

The leaves only are officinal in the U. S. Ph. and Brit. Ph., but the pods are also employed in Europe in veterinary practice. The leaves have a faint, but unpleasant odor, and a somewhat bitter, very nauseous taste. Senna is an active purgative, usually causing nausea and colic when given alone. It is seldom administered in substance; the dose is from half a drachm to two drachms.

### Senna Deprived of Resin.

R. Senna, one part.

Alcohol, four parts.

Macerate for two days, express, and dry.

Ph. Germ.

The resinous principle, causing griping, is removed by this treatment without injury to the purgative properties.

## Laxative Species. (St. Germain Tea.)

R. Senna, deprived of

resin, sixteen parts. Elder flowers, ten parts. Fennel,

Anise, each, five parts. Cut and bruise; when dispensing add

Cream of tartar, three parts.

A pleasant laxative. Ph. Germ.

#### Compound Powder of Senna.

R. Powdered senna,

Cream of tartar, each, two ounces.

Powdered scammony,

half an ounce.
" ginger, two drachms.
Mix. Dose, a scruple to a drachm.

Lond. Ph. 1788.

## Powder of Senna and Guaiacum.

R. Powdered senna,

" guaiacum, equal parts.

Mix. Dose, two teaspoonfuls twice or thrice a day. In jaundice. Augustin.

#### Extract of Senna.

R. Senna, one part.
Boiling water, eight parts.
Infuse with the water in two portions, express, let settle, decant, and evaporate.

Dorvault.

#### Pills of Senna.

R. Powdered senna, one drachm. Extract of dandelion, sufficient.

Mix, and make thirty pills. Dose, five to Hufeland.

## Confection of Senna. (Lenitive Electuary.)

R. Senna, in fine powder, eight troyounces.

Coriander, in fine powder,

four troyounces.
Figs, twelve troyounces.
Prunes, sliced, seven troyounces.
Tamarinds, ten troyounces.
Purging cassia, finely

bruised, sixteen troyounces.

Sugar, in coarse

powder, thirty troyounces. Water, sufficient.

Digest purging cassia, tamarind, prune, and fig with three pints of water for three hours; separate the coarser portions by the hand, and rub the pulpy mass, first through a coarse sieve and then through a fine one, or through a muslin cloth. Digest the residue with a pint of water, and treat the same as before; mix the pulpy liquids, dissolve the sugar, and evaporate to eighty-four troyounces, and, while yet warm, incorporate with it the senna and coriander. The whole should then weigh ninety-six troyounces.

U. S. Ph.

A good and agreeable laxative. Dose, about two drachms, at bedtime or early in

the morning.

The confection of *Brit. Ph.* is very similar in composition; the formula of *Paris Codex* is very complex.

R. Senna, in fine powder, ten parts.
Coriander, one part.
Syrup, fifty parts.
Pulp of tamarind, fifteen parts.

Heat the syrup and pulp by means of a steam-bath, and add the mixed powders to form an electuary.

Ph. Germ.

## Compound Confection of Senna.

R. Confection of senna, two ounces.
Powdered jalap, one drachm.
Cream of tartar, two drachms.
Powdered ginger,

Syrup, one drachm and a half.
Syrup, sufficient.

Mix. Dose, one drachm. Beasley.

## Electuary of Senna and Rhubarb.

R. Powdered rhubarb,

senna, each,

two drachms.

fennel, three drachms.

liquorice, half an ounce.

Pulp of purging cassia, " tamarinds, each,

two ounces.

Syrup of male fern, sufficient.

Mix. Dose, two drachms to half an ounce.

Van Mons..

#### Electuary of Senna and Cream of Tartar.

R. Powdered senna, three drachms.
Cream of tartar, one drachm.
Manna, three ounces and a half.
Pulp of purging cassia,

" tamarinds, each,
one ounce and a half.
Syrup of violets, sufficient.
Mix. Dose, about two drachms.

Van Mons.

## Electuary of Senna and Pigs.

R. Powdered senna, half an ounce.
Pulp of figs, sufficient.

Make an electuary. A piece the size of a hazel nut, night and morning, to obviate costiveness.

Ellis.

#### Electuary of Senna and Sulphur.

R. Powdered senna, Sulphur, Cream of tartar, Six ounces. Pulp of tamarinds, eight ounces. Syrup of senna, Sufficient.

Mix. Said to be useful in hemorrhoids. Dose, two to three drachms. Swediaur.

Tinctumes. Senna Genti Orang eac Proof. Infuse for and filter.

## Compound Wine of Senna.

R. Senna, one ounce.
Rhubarb, six drachms.
Cloves,
Saffron, each, one drachm.
Sherry wine, two pints.

Macerate for five days, often agitating, and decant. As a tonic purgative. Dose, about two fl. ounces.

Pierquin.

R. Senna, four ounces.
Coriander,
Fennel, each, two drachms.
Sherry wine, two pints and a half.
Digest for three days; add

Stoned raisins, three ounces.

Macerate for twenty-four hours, express, and strain.

Swed. Ph.

## Tincture of Senna.

R. Senna, two ounces and a half.
Caraway, bruised,
Coriander, bruised,
each, half an ounce.
Stoned raisins, two ounces.
Proof spirit, twenty fl. ounces.
Obtain by maceration and displacement twenty fl. ounces. This is the old Elixir Salutis.

Lond. Ph.

A warm, stomachic purgative, in atonic gout, etc., in doses of two fl. drachms to a fl. ounce.

#### Tincture of Senna and Jalap.

R. Senna, three ounces. Jalap, in powder, one ounce. Coriander, bruised, Caraway, bruised, half an ounce. Cardamom, bruised, two drachms. Sugar, four ounces. Diluted alcohol, three pints. Macerate for fourteen days, express, and U. S. Ph. 1850. Similar to the last; used in same cases, and in like doses.

#### Tincture of Senna and Gentian.

R. Senna, four ounces.

Gentian, bruised,
Orange-peel, bruised,
each, one ounce.
Proof spirit, sixty-four ounces.
Infuse for some days, often stirring, express, and filter.

Swediaur.

#### Infusion of Senna.

R. Senna, one troyounce.
Coriander, bruised, one drachm.
Boiling water, one pint.

Macerate for an hour, in a covered vessel, and strain.

Dose, about four fl. ounces.

R. Semia, one ounce.
Ginger, sliced,
Boiling water, ten ounces.

Infuse in a covered vessel for one hour, and strain. Dose, one to two fl. ounces.

Brit. Ph.

## Compound Infusion of Senna.

R. Senna, half an ounce.
Sulphate of magnesium,
Manna, each, one ounce.
Fennel seed, one drachm.
Boiling water, half a pint.

Macerate in a covered vessel till cool and

Macerate in a covered vessel till cool, and strain. Dose, one-third, every four or five hours, till it operates. Wood.

R. Senna, cut, two parts.
Boiling water, twelve parts.
Digest for five minutes, express, and add
Rochelle salt, two parts.
Manna, three parts.
Dissolve and strain. The product should weigh fifteen parts. This is the Vienna draught much employed in Europe.

Ph. Germ.

____

## Black Draught.

R. Senna,

Mint, each,
Boiling water,
Macerate for an hour, strain, and add
Salphate of magnesium,
eight ounces.

Dose, two to four fl. ounces. Guy's Hosp.

## Infusion of Senna and Tamarinds.

R. Senna, one drachm.
Tamarinds, one ounce.
Coriander, bruised, one drachm.
Brown sugar, half an ounce.
Boiling water, eight fl. ounces.

Infuse for four hours in a covered vessel, and strain. Dose, two to four fl. ounces.

Ed. Ph.

#### Infusion of Senna and Coffee.

R. Senna, two drachms.
Roasted coffee,
Boiling water,
Hot milk, each, three fl. ounces.

Infuse for twelve hours, and strain. To be taken at once, in the morning. Foy.

R. Senna, ten grains. Hot infusion of coffee,

" milk, each, at will.

Mix, and when cool, strain, and add

Sugar, sufficient.

An agreeable purge for children. The amount of senna to be increased according to the age.

Guersant and Blake.

R. Senna,
Sulphate of magnesium,
Coffee, roasted and
ground,
each,
half an
ounce.

Boiling water, four fl. ounces.

Digest for half an hour, strain, and add

Sugar, one and a half ounces.

As efficient as the "black draught," but much more agreeable.

Combes.

R. Coffee, roasted and ground,
Senna, each, one ounce.
Boiling water, half a pint.
Make an infusion, and evaporate to one ounce, and add

Simple syrup, three fl. ounces.

Mix. Combes.

#### Infusion of Senna and Buckthorn.

R. Senna, two drachms.

Sulphate of sodium, half an ounce.

Boiling water, four fl. ounces.

Syrup of buckthorn, one fl. ounce.

Infuse, cool, and strain.

Ellis.

#### Infusion with Tincture of Senna.

R. Infusion of senna, six fl. drachms.
Tincture of senna, two fl. drachms.
Manna, two drachms.
Spearmint water,
Distilled water, each,

one fl. ounce and a half.

Mix. One-half at a dose; to be repeated, if it does not operate.

Abernethy.

#### Anthelmintic Emulsion.

B. Infusion of senna, ten fl. drachms. Syrup of buckthorn, one fl. drachm. Confection of scammony,

two scruples.

Copaiba, thirty minims. Spirit of turpentine,

six fl. drachms.

Mix, and make an emulsion. Very efficient as an anthelmintic; to be taken early in the morning. Med.-Chirurg. Rev.

## Compound Senna Mixture.

R. Sulphate of magnesium,

Extract of liquorice, half an ounce.
Tincture of senna, two and a half ounces.

Comp. tincture of cardamom, ten fl. drachms. Infusion of senna, sufficient.

Dissolve the sulphate, and extract in fourteen fl. ounces of the infusion, add the tinctures and sufficient infusion to make twenty fl. ounces.

Dose, two to three tablespoonfuls.

Brit. Ph.

R. Infusion of senna, one fl. ounce. Tincture of jalap, one fl. drachm. Sulphate of magnesium,

four drachms.

Syrup of ginger, one fl. drachm.

Mix. As a purgative draught.

Ainslie.

#### Infusion of Senna and Rhubarb.

R. Senna, six drachms.

Manna, one ounce.

Bruised rhubarb, cardamom,

each, two drachms.

Boiling water, one pint.

Infuse for one hour, and strain. Half a teacupful every hour, till it operates.

Ellis.

#### Infusion of Senna and Lemon Juice.

R. Senna, one ounce and a half.
Fresh lemon-peel, one ounce.
Lemon juice, one fl. ounce.
Boiling water, sixteen fl. ounces.
Infuse for two hours, and strain.

Lond. Ph. 1746.

## Syrup of Senna.

R. Senna, broken small,

Oil of coriander, sixteen ounces. three minims.

Sugar, twenty-four ounces.
Water, one hundred ounces.
Alcohol, two fl. ounces.

Digest senna at 120° first with seventy ounces of water for twenty-four hours, afterwards with the remaining water for six hours. Evaporate the expressed and mixed liquids in a water-bath to ten fl. ounces, and when cold, add the oil dissolved in the alcohol; filter, wash the filter with water to obtain sixteen fl. ounces, and dissolve in this the sugar. The product should weigh forty-two ounces, and have the sp. gr. 1.310. Dose, one to four fl. drachms. Brit. Ph.

A fluidounce represents half an ounce

of senna.

## Syrup of Senna and Manna.

R. Senna, cut, ten parts.
Fennel, bruised, one part.
Hot water, fifty parts.

After several hours express, and dissolve

Manna, fifteen parts.
After subsiding, decant, strain, and in fifty-five parts dissolve

Sugar, fifty parts.
Used as a mild laxative for infants, and as an addition to purgative mixtures.

Ph. Germ.

## Compound Aromatic Syrup of Senna.

R. Alexandria senna, four troyounces.
Jalap, one troyounce and a half.
Rhubarb, four drachms.
Cinnamon,
Cloves, each, one drachm.
Nutmeg, thirty grains.
Oil of lemon, twenty minims.
Sugar, twenty-four troyounces.

Exhaust the first six articles, in powder, No. 50, by diluted alcohol, evaporate by means of a water-bath to eighteen fluid-ounces, filter, dissolve the sugar, and add the oil. Dose, two to four fl. drachms.

Grahame.

#### Fluid Extract of Senna.

R. Senna, in powder,

No. 60, sixteen troyounces.

Glycerin,

Water, each, four fl. ounces. Alcohol, eight fl. ounces.

Macerate the powder, properly packed in a percolator, with the mixed liquids for four days; then, with diluted alcohol, displace twenty-six fl. ounces, reserving the first ten, add to the remainder four fl. ounces of gly- | during the apyrexia, in malignant intercerin, evaporate to six fl. ounces, and mix U. S. Ph. with the reserved portion.

Dose, half a fl. ounce.

## Syrup of Senna and Rhubarb.

R. Syrup of senna, four fl. ounces. rhubarb, two fl. ounces.

cinnamon, one fl. ounce.

Mix.

Van Mons.

## Syrup of Senna and Cider.

R. Cider, four pounds. four ounces and a half. Senna. Digest for a night, express, and strain, then add

three pounds. Clarify, and form a syrup. Sard. Ph.

## Injection of Senna.

R. Senna.

Sulphate of sodium.

each, four drachms. Boiling water, sixteen ounces. Infuse senna in the water, strain, and dissolve the sulphate. Paris Codex.

## SERPENTARIA.

#### VIRGINIA SNAKEROOT.

Virginia snakeroot is furnished by several species of Aristolochia, as the A. serpentaria, A. hirsuta, and A. reticulata, all natives of the United States, especially the western

Sez. Syst. Gynand. hexand. Nat. Syst.

Aristolochiaceæ.

Willd. Sp. Pl. iv. 159. Griffith, Med. Bot.

The root, which is the officinal portion, is very similar in all the above-mentioned species. It is in tufts of slender, long, matted fibres, attached to a knotty, rugged head. These fibres are brittle, of a yellowish or brownish color, with an aromatic odor, and a pungent, bitter, camphorated taste. It is a stimulating tonic, and may also act as a diaphoretic and diuretic. The dose of the powder is from ten to thirty grains.

#### Compound Pills of Virginia Snakeroot.

R. Powdered Virginia

snakeroot, twenty-four grains. Camphor, forty-eight grains. Conserve of roses, sufficient.

mittents.

## Electuary of Virginia Snakeroot.

R. Powdered Virginia snakeroot, contrayerva,

each, one drachm. Aromatic confection, one drachm. Preserved ginger, six drachms. Syrup of parsley, sufficient.

Make electuary. Half a drachm every four hours, as a febrifuge.

## Fluid Extract of Virginia Snakeroot.

R. Serpentaria, in powder,

No. 60, sixteen troyounces. Alcohol, one pint. Macerate the powder, properly packed in a percolator, with the alcohol for four days; then with alcohol displace twenty-four fl. ounces, reserving the first fourteen, evaporate the remainder to two fl. ounces, and mix with reserved portion. U. S. Ph.

Dose, ten to thirty minims.

## Infusion of Virginia Snakeroot.

R. Serpentaria, in powder,

No. 40, half a troyounce. Water, sufficient.

Moisten with two fl. drachms of water, pack firmly in a conical percolator, and with water displace one pint.

It may also be prepared by macerating the serpentaria in a pint of boiling water for two hours, and straining. U. S. Ph.

Brit. Ph. macerates half an ounce of serpentaria with twenty fl. ounces of boiling water.

Dose, one to two fl. ounces every two hours, in low forms of fever.

## Compound Infusion of Virginia Snakeroot.

R. Virginia snakeroot,

Contrayerva, each, five drachms. Boiling water, one pint.

Macerate for two hours, strain, and add

Tincture of Virginia

snakeroot, two fl. ounces.

Mix. Dose, a tablespoonful. Beasley.

#### Tincture of Virginia Snakeroot.

R. Serpentaria, in powder,

No. 50, four troyounces. sufficient. Diluted alcohol, Mix, and make eighteen pills; to be taken Obtain by displacement two pints. U.S. Ph.

The tincture of *Brit*. *Ph*. is of nearly the same strength.

## Mixture of Virginia Snakeroot and Allspice.

R. Comp. infus. of Virginia snakeroot, twelve fl. ounces. Tincture of allspice, four fl. ounces. Mix. Four spoonfuls every six hours, in retrocedent and atonic exanthemata.

Saunders.

#### Acetated Mixture of Virginia Snakeroot and Allspice.

R. Add vinegar, two fl. ounces, to sixteen fl. ounces of lastmentioned mixture.

Dose, as above, in petechial typhus.

Swediaur.

## Infusion of Virginia Snakeroot and Ether.

R. Virginia snakeroot, six drachms.

Boiling water, eight fl. ounces.

Infuse, and strain; when cold, add

Sulphuric ether, two fl. drachms.

A tablespoonful, every hour. Richter.

## Wine of Virginia Snakeroot and Vanilla.

R. Virginia snakeroot, six drachms.
Vanilla, two drachms.
Sherry wine, one pint.
Macerate for four hours, and add to the strained liquid

Camphor, half a drachm.
Acetic ether, one fl. drachm.
Syrup of cinnamon, half a fl. ounce.
Dose, two spoonfuls an hour, in low states of the system.

Vogt.

#### Tincture of Virginia Snakeroot and Balsam of Peru.

R. Virginia snakeroot, six drachms.
Proof spirit, five fl. ounces.
Water, sufficient
to obtain six fl. ounces of strained fluid;
after one hour of infusion, add

Camphor,
Balsam of Peru,
Gum Arabic,
half a drachm.
one drachm.
two drachms.

Make an emulsion, and add

Acetic ether, one fl. drachm.

A spoonful every hour, in cases requiring stimulation.

Phæbus.

#### SESAMUM.

#### BENNE.

Two species of Sesamum, the S. orientale, and the S. Indicum, afford leaves and seeds that are recognized as officinal. They are both natives of Asia, and are cultivated in the West Indies and in the southern parts of the United States.

Sex. Syst. Didyn. angios. Nat. Syst. Peda-

liaceæ.

Linn. Sp. Pl. 883, 884. Griffith, Med. Bot.

515.

The seeds are small, inodorous, and afford a bland oil, which may be used for all the purposes of olive oil. The leaves abound in a gummy substance which forms, with water, a rich, bland mucilage, useful in all cases requiring the use of demulcents.

#### Infusion of Benne.

R. Fresh leaves of benne, a handful. Cool water, a pint. Infuse till a mucilage is formed. When

dried leaves are used, the water should be hot.

Wood.

#### Oil of Benne.

This is obtained from the seeds by expression. It is inodorous, of a sweet, bland taste, and keeps well without becoming rancid. It is used as an application to promote softness of the skin. Redwood.

It has likewise been recommended as a substitute for the more costly olive oil in many pharmaceutical preparations.

#### SIMARUBA.

## SIMARUBA.

This is the bark of the root of Simaruba officinalis, a large tree, native of Jamaica, and several parts of South America.

Sex. Syst. Decand. monog. Nat. Syst. Si-

marubaceæ.

De Cand, Prod. i. 733. Griffith, Med. Bot.

The bark is in long pieces, much rolled or quilled. It is fibrous, tough; of a grayish color externally, and yellowish within. It is inodorous, but extremely bitter. It has the properties of the pure bitters, but is apt

to act on the stomach and bowels.

#### Infusion of Simaruba.

R. Simaruba bark, bruised,

three drachms.

Ed. Ph.

Boiling water, one pint. Macerate for two hours, and strain.

Dose, two fl. ounces.

## Compound Infusion of Simaruba.

R. Simaruba,

Wormwood, each, two drachms.
Boiling water, one pint.
Infuse for fifteen minutes; strain, and add
Syrup of gentian, one fl. ounce.
To be taken in wineglassful doses. Foy.

# SINAPIS. MUSTARD.

The seeds of two species of sinapis are used in medicine, those of S. nigra and S. alba, both annual plants, indigenous to many parts of Europe, and cultivated in our gardens.

Sex. Syst. Tetradyn, siliq. Nat. Syst. Brassicaceæ.

Linn. Sp. Pl. 933. Griffith, Med. Bot. 133. Black mustard seeds are small, globular, of a deep brown color, having a peculiar smell when bruised, which becomes pungent on the flour being mixed with water; their taste is bitterish and pungent. White mustard seeds are larger, of a yellowish color, and less pungent. These seeds act as a laxative; when in the state of flour, they operate as an emetic, and when applied to the skin as a rubefacient, or even vesicant.

## Cataplasm of Mustard.

R. Boiling water, ten fl. ounces.
Cake meal,
Flour of mustard,
each, two ounces and a half.

Mix the powders, and gradually add the water, stirring till a cataplasm is formed.

Brit. Ph.

R. Flour of mustard,
Crumb of bread,
Common salt,
Vinegar,

two ounces.
four ounces.
half an ounce.
sufficient.

Mix. Ammon. Used as rubefacients and revulsives.

## Compound Cataplasm of Mustard.

R. Flour of mustard, eight ounces. Powdered white pepper, "ginger,

each, Oxymel, one drachm. Sufficient. Wix. Foy.

R. Flour of mustard, four ounces. Yeast, one ounce and a half. Chloride of ammonium.

Rue, one drachm.
Vinegar, half an ounce.
Sufficient.
Span. Ph.
Used as above.

R. Flour of mustard, four ounces.
Hot water, sufficient.
Mix. As a rubefacient.

## Mustard Paper.

R. Black mustard, in powder, ninety grains. Solution of gutta-percha,

sufficient.

Add together to obtain a mixture of semiliquid consistence, and spread on one side of rather stiff paper, four inches square; then dry. Before applying to the skin dip for about fifteen seconds in warm water.

U. S. Ph.

#### Mustard Gargle.

R. Mustard, four drachms.

White wine, six ounces.

Angelica spirit, one ounce.

Digest, and strain.

Thilenius.

R. Flour of mustard, one drachm.
Water of angelica,
hyssop,

each, six fl. ounces.

Spirit of horseradish,

half a fl. ounce.

Chloride of ammonium,

four fl. scruples.

Honey of roses, four fl. ounces.

Mix. Spielmann.

#### Mustard Foot Bath.

R. Flour of mustard, four ounces. Hot water, one gallon.

Mix. Béral.

## Injection of Mustard.

R. Flour of mustard, two drachms.
Boiling water, sixteen ounces.
Infuse. In uterine discharges arising from ulcerated carcinoma.

Ashwell.

#### Mustard Whey.

R. Milk, one pint.
Water, two pounds.
Bruised mustard-seed,
one ounce and a half.
Boil till curdled, and strain. Beasley.

R. Milk, one pint.
Bruised mustard seed, one ounce.
Boil till curdled, and strain, then add
Sherry wine, six fl. ounces.

A draught every hour or two, in low states | R. Lard, of the system. | Cil of

#### Mustard Ointment.

R. Flour of mustard, three ounces.
Oil of almonds, half a fl. ounce.
Lemon juice, sufficient.
Mix. In sun-burn, etc. Frank.

### Compound Mustard Ointment.

R. Resin ointment,
Soap,
Camphor,
Flour of mustard,
Mix.

one ounce.
half an ounce.
two scruples.
one scruple.

Ferriar.

#### Lotion of Mustard.

R. Flour of mustard, one ounce. Express the oil, and add to the mass

Oil of turpentine, eight ounces.

Macerate for three days, express, and strain.

As a friction in paralysis. Niemann.

### Fixed Oil of Mustard.

A fixed oil is obtained in the preparation of flour of mustard, by subjecting the bruised seed to powerful expression in an hydraulic press. This oil is used as a substitute for sweet oil, for dressing salad, etc.

#### Volatile Oil of Black Mustard.

R. Bruised black mustard
seed, twenty pounds.
Cold water, sufficient to cover.
Macerate, distil, and separate the oil.
Magendie.

A very active rubefacient.

#### Tincture of Oil of Mustard.

R. Volatile oil of mustard, one part.
Alcohol, fifty parts.
Dissolve. A good rubefacient.

Ph. Germ.

#### Compound Liniment of Mustard.

R. Volatile oil of mustard,

one fl. drachm.

Ethereal extract of
mezereon, forty grains.
Camphor, one hundred and
twenty grains.
Castor oil, five fl. drachms.
Alcohol, four fl. ounces.
Dissolve. As a rubefacient. Brit. Ph.

R. Lard, Oil of almonds,

Yellow wax, twelve ounces.

Yellow wax, four ounces.

Melt by a gentle heat, pour into a heated

Melt by a gentle heat, pour into a heated mortar, and when cooling, add

Oil of lavender, three ounces. Carbonate of

ammonium, half an ounce. Tincture of mustard,

two fl. ounces.

Camphor, one ounce. Triturate the ammonia with the oil of lavender; dissolve the camphor in the tincture, and add both to the melted mass, incorporating well. As an application to chilblains.

Béral.

### SODIUM.

SODIUM.

#### SODA.

CAUSTIC SODA.

R. Solution of soda, at will. Evaporate in an iron vessel, till it will solidify, on cooling; pour upon a flat stone or iron plate. U. S. Ph. and Brit. Ph.

#### Solution of Soda.

R. Carbonate of sodium,

twenty-six troyounces.

Lime, eight troyounces. Dissolve the carbonate in three and a half pints of distilled water, heat to boiling, and mix with it the hot mixture of the lime, and three pints of distilled water; boil for ten minutes, transfer to a muslin strainer, and wash the sediment upon it with enough distilled water to make the strained liquid measure six pints; keep it in bottles of green glass. It has the sp. gr. 1.071, and contains five and seven-tenths per cent. of hydrate of sodium.

U. S. Ph.

Brit. Ph. employs twenty-eight ounces of carbonate of sodium and twelve ounces of lime, and obtains a solution of the sp. gr. 1.047.

Ph. Germ. orders a solution having the sp. gr. 1.332, and containing thirty per cent. of hydrate of sodium.

Caustic soda is used as a caustic and escharotic, like caustic potassa. The solution is antacid and sedative to the stomach, and appears to influence the secretion of the liver. Dose of the solution of *U. S. Ph.* and *Brit. Ph.* ten to thirty minims, largely diluted.

### SODA CHLORINATA.

CHLORINATED SODA.

R. Dried carbonate of sodium,

nineteen parts.

Water, one part.

Mix and place in a suitable vessel, and pass in chlorine gas to saturation. Christison.

This article is more generally used in the

This article is more generally used in the liquid state, prepared in the following manner.

#### Solution of Chlorinated Soda.

R. Chlorinated lime,

twelve troyounces.

Carbonate of sodium,

twenty-four troyounces.

Water, twelve pints. Dissolve the carbonate of sodium in three pints of the water, with the aid of heat. Triturate the remainder of the water with the chlorinated lime, in small portions at a time. Set aside for some hours, to settle; decant clear solution, and add that of the carbonate of sodium, decant, and strain through linen, and keep in bottles, protested from the light.

U. S. Ph.

Solution of chlorinated soda, Paris Codex, is less than one-third this strength; Ph. Germ. directs four chlorinated lime, five carbonate of sodium, and thirty parts

of water.

dark place.

#### R. Carbonate of sodium,

twelve ounces.

Brit. Ph.

Distilled water, thirty-six ounces. Dissolve, and pass into the solution the washed chlorine gas evolved from fifteen fl. ounces of muriatic acid and four ounces of black oxide of manganese; then keep the liquid in stoppered bottles in a cool and

This is known as Labarraque's Disinfecting Solution; it is chiefly employed as a disinfectant, but is also used internally, in doses of thirty drops to one fl. drachm,

in low fevers, etc.

# Diluted Solution of Chlorinated Soda.

R. Solution of chlorinated

soda, half a fl. drachm.
Distilled water, four fl. ounces.
To be taken in spoonful doses, in the apyrexia of intermittents.

Gouzee.

R. Solution of chlorinated

water, twelve to sixteen parts.

As a lotion to foul and cancerous ulcers.

Gargle of Chlorinated Soda.

R. Solution of chlorinated

soda, one fl. drachm.
Hydromel, one fl. ounce.
Distilled water, seven fl. ounces.

Mix. Béral.

### Mouth Wash of Chlorinated Soda.

R. Solution of chlorinated soda,

Tincture of myrrh,

each,
Rose water,
Water,
half a fl. ounce.
one fl. ounce.
six fl. ounces.

Mix. In aphthous ulceration of the mouth.

### Injection of Chlorinated Soda.

R. Solution of chlorinated

water, one fl. ounce.
Water, sixteen fl. ounces.
Mix. Used as a vaginal injection in fetid discharges from malignant diseases.

Pereira.

### Cataplasm of Chlorinated Soda.

R. Boiling water, eight fl. ounces. Cake meal, four ounces. Solution of chlorinated

soda, two fl. ounces.

Add the meal gradually to the water, constantly stirring; then mix in the chlorinated soda.

Applied to foul and sloughing ulcers.

Brit. Ph.

### SODII ACETAS.

ACETATE OF SODIUM.

It is chiefly prepared by the manufacturer of crude pyroligneous acid, in the process of obtaining the officinal acetic acid.

Diuretic or cathartic, according to dose, which varies from one scruple to four

drachms.

# Compound Pills of Acetate of Sodium.

R. Acetate of sodium, five drachms. Camphor,

Nitrate of potassium,

each, two drachms Conserve of elder berries,

sufficient.

Mix, and make one hundred and twenty pills. Dose, two, morning and evening, to check the secretion of milk.

Bories.

R. Acetate of sodium, ) each, one Powdered rhubarb, drachm. Inspissated ox gall, Powdered gum Arabic,

half a drachm.

Mix, and make pills of two grains. Dose, ten to fifteen, twice a day, as a laxative.

Augustin.

# SODII ARSENIAS.

ARSENIATE OF SODIUM.

R. White arsenic, two troyounces. Nitrate of sodium, eight hundred and sixteen grains. Dried carbonate of sodium. five hundred and twenty-eight grains.

Pulverize, mix, and introduce into a clay crucible, expose to a full red heat until effervescence ceases and complete fusion has taken place. Pour the salt on a porcelain slab, and while still warm, put into half a pint of boiling distilled water, dissolve, filter, and crystallize.

Brit. Ph. and U. S. Ph. In intermittents, and some diseases of the skin. Dose, one-sixteenth to one-eighth of a grain.

#### Solution of Arseniate of Sodium.

R. Arseniate of sodium, rendered anhydrous by a heat not exceeding 300°, four grains. Distilled water, one fl. ounce. Dissolve. Dose, five to ten minims. U. S. Ph. and Brit. Ph.

#### Heinecke's Solution.

R. Arseniate of sodium, six grains. Peppermint water,

two fl. ounces and a half.

Add to the solution

Wine of cinnamon,

half a fl. ounce. Laudanum, one fl. drachm. Dose, forty to fifty drops, four times a day. Heinecke.

#### Pearson's Solution.

R. Crystallized arseniate of sodium, one grain. Distilled water, one fl. ounce. Dissolve. Dose, twenty drops. Pearson.

R. Arseniate of sodium, one grain. Distilled water,

six hundred grains.

Dissolve. Paris Codex.

### SODII BICARBONAS.

BICARBONATE OF SODIUM.

Carbonate of sodium, two pounds. crystallized, Carbonate of sodium, dried, three pounds.

Triturate together, and saturate in a suitable bottle with carbonic acid gas; then shake the salt with half its weight of cold distilled water, drain, and dry by exposure to the air.

R. Commercial bicarbonate of sodium, in powder, sixty-four troyounces.

Put in a conical glass percolator, cover with wet muslin, and percolate six pints, or suffi-cient water through it until the percolate ceases to precipitate a solution of sulphate of magnesium; dry it.

Antacid. Dose, ten to sixty grains.

#### Emulsion with Bibarbonate of Sodium.

R. Bicarbonate of sodium,

sixteen grains. four grains.

Nitre. Syrup of marsh mallow,

violets, each, one fl. ounce.

two fl. ounces. Lettuce water,

Emulsion of almonds,

twelve fl. ounces.

Mix. In nephritic complaints. Béral.

#### Effervescent Citro-Tartrate of Sodium.

R. Bicarbonate of sodium, seventeen ounces. in powder, Tartaric acid, in powder, eight ounces.

Citric acid, in powder,

six ounces.

Mix thoroughly, heat the mixture to between 200° and 220°, and when the particles begin to aggregate, stir assiduously to obtain granules; by suitable sieves separate the granules of uniform and convenient size. Dose, one to two drachms.

Brit. Ph.

### Effervescing Soda Powders.

R. Bicarbonate of sodium,

twenty-six grains. Powdered ginger, five grains. two drachms. White sugar, Essence of lemon, one drop.

Mix, and put in a white paper.

half a drachm. R. Tartarie acid, Put in a blue paper. When used, dissolve the contents of each paper in four fl. ounces of water, mix the solutions, and drink in a state of effervescence.

Known as the Ginger beer powders.

Pereira.

#### Powder of Bicarbonate of Sodium and Magnesia.

R. Magnesia, half an ounce. Bicarbonate of sodium, Powdered ginger, each,

one scruple.

Mix. A small teaspoonful occasionally.

Ellis.

### Lotion of Bicarbonate of Sodium.

R. Bicarbonate of sodium,

Water.

two or three drachms. one pint. Dissolve. Recommended in eczema and impetigo of the scalp. Devergie.

# Lozenges of Bicarbonate of Sodium.

R. Bicarbonate of sodium,

three troyounces. Powdered sugar, nine troyounces. nutmeg, sixty grains. Mucilage of tragacanth, sufficient. Beat together, and form four hundred and eighty lozenges. U. S. Ph.

Antacid and antilithic. They contain three grains; those of Brit. Ph. each five

grains of bicarbonate.

R. Bicarbonate of sodium,

two ounces. Sugar, thirty-four ounces. Oil of peppermint, eighteen drops. Mucilage, thirty-six drachms. Mix, and make lozenges of eighteen grains. Magendie.

R. Bicarbonate of sodium, four parts. Sugar, sixty parts. Chocolate, eight parts. Mucilage, nine parts. Make lozenges of eighteen grains. Béral.

### Anti-Emetic Mixture.

R. Bicarbonate of

sodium, one drachm and a half. Powdered gum Arabic,

two drachms. Oil of spearmint, four drops. White sugar, two drachms. Carbonic acid water,

four fl. ounces.

A tablespoonful occasionally, to Mix. calm the stomach, or prevent vomiting.

#### Effervescent Soda Solution.

R. Bicarbonate of sodium,

thirty grains. Water, twenty ounces. Dissolve, and pass carbonic acid gas into the solution to obtain a pressure of seven atmospheres. Brit. Ph.

#### Artificial Seidlitz Water.

R. Sulphate of magnesium,

one ounce.

Bicarbonate of sodium, Tartaric acid, in crystals, each, one drachm. Water, twenty-one fl. ounces. Dissolve the salts separately, filter the solutions, mix in a suitable bottle, add the Paris Codex. acid, and cork well.

### Artificial Selters (Seltzer) Water.

R. Chloride of calcium, four grains.

magnesium,

twelve grains. sodium, four grains. Carbonate of sodium, sixteen grs. Phosphate of sodium, one grain. Sulphate of iron, one-sixth grain. sodium, six grains. Carbonic acid water, twenty fl. ounces.

Dissolve. Soubeiran.

Artificial Vichy Water.

R. Carbonate of sodium, one hundred and six grains. Chloride of sodium, three grains.

calcium,

Sulphate of sodium, each,

eight grains. two magnesium, and a half grains.

iron, one-tenth grain. twenty fl. ounces. Water,

Dissolve and impregnate with four volumes Dorvault. of carbonic acid.

#### Soda Mint.

R. Bicarbonate of sodium,

four drachms.

Aromatic spirit of ammonia, one drachm. Peppermint water. one pint. Dissolve, and mix. Dose, a tablespoonful for adults, thirty to sixty minims for in-fants, as an antacid and carminative for

#### Mixture of Bicarbonate of Sodium and Copaiba.

over-fed infants and dyspeptics. G. Norris.

R. Bicarbonate of sodium,

one drachm. Almond emulsion, four fl. ounces. Copaiba, two fl. drachms. Laudanum. sixty drops. Mix. A tablespoonful occasionally, in acute pain in the bladder. Ellis.

### SODII BISULPHAS.

BISULPHATE OF SODIUM.

R. Dried sulphate of sodium,

ten parts. seven parts.

Heat in a crucible.

Sulphuric acid,

Purgative in doses of two to six drachms. Beasley.

#### Bisulphate of Sodium and Magnesium.

R. Bisulphate of sodium, at will. Hot water, sufficient. Dissolve, add magnesia to saturation; filter, and crystallize.

Laxative and diuretic, in doses from half a drachm to two drachms, several times a day. Van Mons.

#### Effervescent Solution of Bisulphate of Sodium.

R. Bisulphate of sodium,

eight drachms.

Bicarbonate of sodium,

five drachms. one quart.

Water, Dissolve in a suitable bottle. A pleasant aperient, in doses of a wineglassful.

Dorvault. Mix.

### SODII BORAS.

#### BORAX.

Borax is found native in several parts of Europe, and in Peru, and on the shores of certain lakes in Persia and Thibet.

It is a mild diuretic. The dose is about

thirty grains.

### Compound Powder of Borax.

R. Powdered borax, one drachm. saffron, ten grains. Oil of cinnamon, two drops. Mix, for two doses. As an emmenagogue. Wedel.

R. Cream of tartar, one ounce. Nitrate of potassium, Borax, each, two drachms. Powdered digitalis, twenty grains. Mix and make twelve powders. One, twice

#### Lozenges of Borax.

or thrice daily, in dropsy.

R. Powdered borax, two drachms. half an ounce. sugar, Mucilage, sufficient. Mix, and make thirty lozenges. One, occasionally, in aphthous sore mouth.

Phæbus.

### Pills of Borax and Aloes.

R. Borax, thirty grains. Aloes, Capsicum, each, twenty grains. Oil of lavender, sufficient. Make eighteen pills. Dose, two, thrice daily, in amenorrhœa. Copland.

### Collutory of Borax.

R. Borax, two drachms. Water, Tincture of myrrh, each. one fl. ounce. Honey of roses, two ounces. Mix. Swediaur.

three drachms. R. Borax, Mucilage of quince seeds, eight fl. ounces. Honey of roses, two ounces. Bahi. Mix.

three drachms. R. Borax, Infusion of roses, one fl. ounce. Honey of roses, two ounces. Pringle.

### Collyrium of Borax.

R. Borax, one drachm.
Laudanum, half fl. drachm.
Rose water, four fl. ounces.

Mix. Fricke.

R. Borax,
Sugar,
Rose water,
Mix.

half a drachm.
one drachm.
two fl. ounces.

Richard.

## Gargle of Borax.

R. Borax, two drachms.
Oxymel, half fl. ounce.
Water, eleven fl. ounces.

Mix. Beasley.

R. Borax, one drachm.
Tincture of myrrh, half fl. ounce.
Clarified honey, one fl. ounce.
Rose water, four fl. ounces.

Mix. Ellis.
In aphthous sore mouth, ptyalism, etc.

#### Lotion of Borax.

R. Borax, half a drachm.
Orange-flower water,
Rose water, each, half fl. ounce.
Dissolve. In pruritus.

Cadet.

R. Borax, half an ounce.
Sulphate of morphia, six grains.
Rose water, eight fl. ounces.
Mix. Used as a lotion in pruritus vulvæ.
C. D. Meigs.

#### Glycerite of Borax.

R. Borax, in powder, one troyounce.
Glycerin, four fl. ounces.
Rub together until dissolved.

U. S. Ph. and Brit. Ph.

#### Cosmetic Wash of Borax.

B. Benzoin, one drachm.
Bitter almonds, six drachms.
Borax, two drachms.
Rose water, eight ounces.

Make emulsion and dissolve the borax.

Schubarth.

#### Honey of Borax.

R. Powdered borax, one drachm.
Clarified honey, one troyounce.
Mix.
In aphtha.

U. S. Ph.

### Vinegar of Borax.

one drachm. half fl. drachm. four fl. ounces. Dissolve. As lotion to ringworm of the scalp. Christison.

#### Mixture of Borax.

R. Borax, two drachms. Chamomile water, four fl. ounces. Syrup of orange-peel,

half fl. ounce.

Liquid succinate of
ammonium, two fl. drachms.
Wine of opium, half a fl. drachm.
Mix. As an emmenagogue, and to facilitate parturition. Dose, two spoonfuls every half hour.

Swediaur.

B. Powdered ergot, twenty grains.
Borax, ten grains.
Cinnamon water, one ounce.
Mix. One dose. Rigby.

### Liniment of Borax.

R. Borax, one drachm.
Balsam of Peru, ninety grains.
Oil of almonds, one ounce.
Yolk of egg,

White of egg, each, two drachms.

Mix thoroughly. Applied to sore nipples.

Harless.

#### Ointment of Borax.

R. Powdered borax, fifteen grains.
Fresh butter, two drachms.
Rub together. Applied to scaly eruptions.
Radius.

R. Powdered borax, one drachm.
Lard, one ounce.
Rub together. An excellent application to painful hemorrhoidal tumors, and to cracked nipples.

Pereira.

R. Powdered borax,
Rose ointment,
Mix. For children.

two drachms.
one ounce.

Cadet.

# SODII BROMIDUM.

BROMIDE OF SODIUM.

drachm.
oyounce.

U. S. Ph.

R. Solution of bromide
of iron, at will.
carbonate
of sodium, sufficient
to precipitate; filter, and evaporate.

Magendie.

# Ointment of Bromide of Sodium.

R. Bromide of sodium.

thirty-four grains. one ounce. Lard, Mix. As an application to obstinate cutaneous eruptions. Magendie.

### SODII CARBOLAS.

CARBOLATE OF SODIUM.

#### Solution of Carbolate of Sodium.

R. Pure carbolic acid. five parts. Liquid caustic soda, one part. Distilled water, four parts. Ph. Germ.

Used like pure carbolic acid, of which this solution contains half its weight. Made with impure carbolic acid, it may be used externally.

### SODII CARBONAS.

CARBONATE OF SODIUM.

### Dried Carbonate of Sodium.

R. Carbonate of sodium, Heat in a clean iron vessel, till perfectly dried, stirring constantly; rub into powder. U. S. Ph.

Dose, three to ten grains.

#### Solution of Carbonate of Sodium.

R. Carbonate of

sodium, one ounce and a half. Distilled water, (imp.) one pint. Dissolve. The sp. gr. is 1.026. Dub. Ph. Dose, half a fl. ounce to one ounce diluted, two or three times a day, as antacid, etc.

#### Diuretic Solution with Carbonate of Sodium.

R. Carbonate of sodium, three drachms. one drachm and a half. Nitre. Honey, one ounce and a half. Decoction of couchgrass, three pints. Mix. A glassful every hour, in dropsy.

Cadet.

Mixture of Carbonate of Sodium and Ipecacuanha.

R. Carbonate of sodium, twelve grains. Wine of ipecacuanha,

twenty drops. Laudanum, four drops. Distilled water. one fl. ounce.

Mix. A teaspoonful every two or three hours, in hooping-cough of children. Ellis.

#### Mixture of Carbonate of Sodium and Chamomile.

R. Carbonate of sodium, one drachm. Chamomile water, three fl. ounces. Syrup of gentian, one fl. ounce. Tincture of Peruvian one fl. drachm. bark,

Mix. A spoonful occasionally, in scrofula.

#### Mixture of Carbonate of Sodium and Ouassia.

R. Carbonate of sodium, two drachms and a half. Rasped quassia,

one drachm and a half. Boiling water, one pint.

Infuse for one hour, and strain. Two to four spoonfuls a day, in dyspepsia. Augustin.

#### Mixture of Carbonate of Sodium and Gentian.

R. Carbonate of sodium.

four scruples.

Compound infusion of gentian,

three fl. ounces. Cinnamon water, three fl. ounces. Tincture of cardamom,

half a fl. ounce.

Mix. A tablespoonful every two or three hours, in acidity and flatulence.

#### Pills of Soda and Rhubarb.

R. Powdered rhubarb, Dried carbonate of each, one sodium, scruple. Extract of gentian, three grains. Calomel,

Mix, and make twenty pills. Two, occasionally, in dyspepsia. Ellis.

### Pills of Soda and Ipecacuanha.

R. Carbonate of sodium, one drachm.
Bitter almonds, half a drachm.
Ipecacuanha, three grains.
Extract of madder,

twenty-four grains. sufficient.

Beat into mass, and form sixty pills. Three, morning and evening, in obstinate cutaneous diseases.

Foy.

### Carbonate of Sodium Pills.

R. Extract of chamomile,

one drachm.
Powdered rhubarb, one scruple.
Carbonate of sodium,

half a drachm.
Oil of caraway, ten minims.
Syrup of ginger, sufficient.
Mix, and make twenty-four pills. Two to be taken thrice a day, in dyspepsia. Ainslie.

#### Pills of Carbonate of Sodium.

R. Dried carbonate of sodium, one drachm. Soap, two scruples. Water, sufficient. Beat together, and make thirty pills. Three, thrice a day. In calculous affections.

#### Powder of Carbonate of Sodium and Rhubarb.

R. Dried carbonate of sodium, one ounce. Rhubarb, four drachms. Ginger, one scruple.

Mix. In cardialgia, and dyspepsia.

Beasley.

Dose, ten to twenty grains.

### Powder of Carbonate of Sodium and Mercury.

R. Dried carbonate of sodium, five drachms. Calomel, one drachm. Compound chalk powder, ten drachms.

Mix. Dose, eight to sixteen grains.

Guy's Hosp.

#### Lotion of Carbonate of Sodium.

R. Saturated solution of
carbonate of sodium, one ounce.
Warm water, two pints.
Mix. As a lotion in pruritus. Radius.
35

### Injection of Carbonate of Sodium.

R. Carbonate of sodium, one drachm.
Soap, two ounces.
Water, twelve fl. ounces.
Advised as an injection, in cases of uric acid calculi.

Bories.

#### Ointment of Carbonate of Sodium.

R. Carbonate of sodium,

Wine of opium, one fl. drachm.
Lard, one ounce.
Mix. In cutaneous affections attended with pain.

Soubeiran.

R. Carbonate of sodium, Sulphuret of sodium,

each, one drachm.
Lard, one ounce.
Mix. In tinea capitis, having removed the crusts.

Alibert.

R. Impure carbonate
of sodium,
Slaked lime,
Lard,
two drachms.
two ounces.

Mix. As the last.

Cadet.

R. Carbonate of sodium, two drachms. Slaked lime, one drachm. Opium, two grains. Lard, two ounces.

Mix. In prurigo.

Biett.

#### SODII CHLORAS.

### CHLORATE OF SODIUM.

R. Tartaric acid, five ounces.
Boiling water, two pints.
Dissolve, and add

Carbonate of sodium,

forty-five drachms and a half.
Also, dissolve

Chlorate of potassium,

four ounces and fifteen grains.
Boiling water, sixteen fl. ounces.
Mix the solutions whilst boiling, filter,
evaporate, and crystallize. Hamb. Ph.

#### Lotion of Chlorate of Sodium.

R. Chlorate of sodium, two drachms. Water, four fl. ounces. Radius. In pruritus.

### Gargle of Chlorate of Sodium.

R. Chlorate of sodium,

one to three scruples. Barley water, three ounces. Honey of roses, one ounce. Mix. Radius.

### Collutory of Chlorate of Sodium.

R. Chlorate of sodium, in powder, Honey, equal weights. Mix well. Dorvault.

### SODII CHLORIDUM.

SODÆ MURIAS. (COMMON SALT.)

#### Powder of Common Salt and Cochineal.

R. Powdered common salt, .

three drachms. cochineal, fifteen grs.

Mix, and divide into six powders. Anthelmintic. One, every morning, following the last dose by some purgative. Rush.

### Compound Saline Powder.

R. Common salt,

Sulphate of magnesium,

each, four ounces. potassium,

three ounces.

Dry the salts separately, and pulverize; rub them well together, and keep in well-closed vessels.

As a laxative, in doses of two or three drachms, in a half pint of carbonic acid water, early in the morning.

#### Bath of Common Salt and Gelatine.

R. Common salt, one pound. Water, four pints.

Pour the solution in a bath, and add

two pounds, Flanders glue, olved in

Water, six pints. Recommended in scrofulous affections.

Foy.

#### Fomentation of Common Salt.

R. Common salt. two ounces. Water, six fl. ounces. Vinegar, Brandy, each, three fl. ounces. Mix. As a fomentation to bruises. Vogt. | tumors.

### Clyster with Common Salt.

R. Common salt, one ounce. Barley water, half a pint. Add to the solution Olive oil, one fl. ounce. Mix.

R. Common salt, one to two ounces. Tepid flaxseed infusion, one pint. Dissolve, and add

Castor or olive oil,

Molasses, each, two fl. ounces. One-half to be used at a time; the remainder in half an hour afterwards, if needed.

### Clyster of Common Salt and Arnica.

R. Common salt, one ounce. Infusion of arnica.

twelve fl. ounces.

Mid. Hosp.

Mix. Said to be useful in apoplexy and paralysis.

#### Mixture of Common Salt and Lemon Juice.

R. Lemon juice, at will. Common salt, sufficient to saturate; filter. A tablespoonful every hour, in apyrexia of intermittents. Bories.

#### Ointment of Common Salt.

R. Common salt, one drachm. Water. sufficient to dissolve. Lard. one ounce. Rub together till smooth. The strength to be gradually increased from one drachm of the salt to four. To inflamed eyelids. Tavignot.

### Compound Ointment of Common Salt.

R. Common salt, one ounce and a half. sufficient to dissolve. Water, Simple cerate, three ounces. Rose-water ointment, one ounce. Rub together. In tinea capitis, as a fric-St. Marie. tion, morning and evening.

two drachms. R. Common salt, one drachm. Nut oil, Ox gall, one ounce and a half. Digest together for thirty-six hours, and triturate well. As a friction to scrofulous Roncalli.

### SODII CITRAS.

SOLUTION OF CITRATE OF SODIUM. (Potion of Riverus.)

R. Citric acid, four parts. Pure carbonate of sodium, (crystallized), nine parts. one hundred Distilled water, and ninety parts.

Dissolve the acid in the water, add the carbonate, dissolve by agitation, and then cork Ph. Germ. the vial. Somewhat effervescent. Used in place of

neutral mixture.

# SODII HYPOSULPHIS.

Hyposulphite of Sodium.

R. Carbonate of sodium,

eight ounces. one pint.

Distilled water, Dissolve, and mix with the solution

> Sulphur, one ounce.

Then pass an excess of sulphurous acid gas into the liquid; boil for a few minutes in a matrass; filter, evaporate to one-third, and set aside to crystallize. Paris Codex.
Used in diseases of the skin, in doses of

ten grains to one drachm.

R. Dried carbonate of sodium, in powder, one pound. Sulphur, five ounces.

Mix and heat in a porcelain vessel until the sulphur melts; stirring the mass to bring every portion in contact with the air. Dis-solve the compound thus formed in water; filter, boil the solution with sulphur; filter, Walchner. evaporate, and crystallize.

Principally used in daguerreotyping.

#### Collutory of Hyposulphite of Sodium.

R. Hyposulphite of sodium, Glycerin, each, two drachms. Water, six drachms. Dissolve and mix. In diphtheria. Maynard.

### Fomentation of Hyposulphite of Sodium.

R. Hyposulphite of sodium,

one ounce. Water. twelve ounces. Dissolve. In tineæ. Tilb. Fox.

### Syrup of Hyposulphite of Sodium.

R. Hyposulphite of sodium,

one ounce. twelve fl. ounces. Water, Sugar, twenty-three ounces. Dissolve the salt in the water, add the sugar, and form syrup. Dose, from one to two ounces twice a day.

### Bath of Hyposulphite of Sodium.

R. Hyposulphite of sodium,

Water,

one to four ounces. one gallon.

Dissolve, and mix with the water of a bath, adding vinegar while the patient is in the bath, to liberate the sulphurous acid and sulphur. Pereira.

### SODII NITRAS.

NITRATE OR SODIUM. (CUBIC NITRE.)

This salt is found in immense beds in Peru, whence it is imported for the manufacture of nitric acid, chrome yellow, sulphuric acid, etc.

It crystallizes in rhomboidal prisms; its

taste is sharp, cooling, and bitter.

It is used in medicine for similar purposes as nitrate of potassium, and in about the same doses; on account of its mild action it is principally used in febrile conditions of children.

#### Mixture of Nitrate of Sodium.

R. Nitrate of sodium, thirty grains. Decoction of marsh mallow,

two ounces.

Sugar, two drachms.

Mix. One or two fl. drachms every hour. Fricke.

#### Fomentation of Nitrate of Sodium.

R. Nitrate of sodium, one ounce. Water, two ounces. Dissolve. In articular rheumatism. Rademacher.

### SODII IODIDUM.

IODIDE OF SODIUM.

R. Solution of iodide of iron, at will. recently prepared, Solution of carbonate of sufficient sodium,

ten pounds.

to precipitate: filter and evaporate to crys-

Used for the same purposes and in the same manner as iodide of potassium. It is stated by Gamberini to be better borne and less likely to occasion iodism than the po-tassium salt. Dose, five to twenty grains.

# SODII PHOSPHAS.

PHOSPHATE OF SODIUM.

R. Powdered burnt bones.

six pounds. Sulphuric acid, sufficient. Carbonate of sodium, Mix the powdered bone with the acid in an earthen vessel, add a gallon of water, and stir. Digest for three days, occasionally adding a little water, then pour in a gallon of boiling water, and strain; adding boiling water till the liquid passes almost tasteless. Let settle, decant, and boil down to a gallon. After settling, pour it into an iron vessel, heat, and gradually add the carbonate of sodium dissolved in hot water, as long as there is effervescence; then filter, and let crystal-lize. More crystals will be obtained by adding carbonate of sodium in excess, and again evaporating to crystallization. Keep in a well-stopped bottle. U. S. Ph.

A mild purgative, in doses of four drachms

to one ounce.

R. Acid phosphate of calcium, at will. Add carbonate of sodium to saturation; let settle, decant, evaporate, and crystallize. Guibourt.

#### Compound Powder of Phosphate of Sodium.

R. Phosphate of sodium,

two drachms. Carbonate of sodium, one drachm. Fennel sugar, half an ounce. Mix. Two to three teaspoonfuls a day, to Berends. aid digestion.

### Mixture of Phosphate of Sodium.

R. Phosphate of sodium,

half an ounce.

Decoction of carrageen,

six fl. ounces. half an ounce.

operates.

Syrup of orgeat, Mix. As a purgative. Radius.

R. Phosphate of sodium, Syrup of marsh mallow, half an ounce. each, Water, four fl. ounces. Mix. As a purgative. Augustin.

### SODII SULPHAS.

SULPHATE OF SODIUM. (GLAUBER'S SALT.)

### Powder of Sulphate of Sodium and Tartar Emetic.

R. Sulphate of sodium, two ounces. Tartar emetic, Opium, each, one grain. Gum Arabic, Powdered liquorice,

each, one drachm. Mix. To be taken in water in divided doses during the day, as a purgative and

#### Powder of Sulphate of Sodium and Nitre.

R. Dried sulphate of sodium, eighteen drachms. half a drachm. Nitre. Tartar emetic, one grain. Mix. One-third, as a dose, in water or broth.

### Powder of Sulphate of Sodium and Opium.

R. Sulphate of sodium, four scruples. Powdered opium, two grains. Mix. In hemorrhages and inflammations, after bleeding. Radius.

#### Compound Pills of Sulphate of Sodium.

R. Sulphate of sodium, half a drachm. Bitter almonds, one drachm. Ipecacuanha, two grains. Extract of madder, sufficient. Beat into mass, and make sixty pills. Three, morning and evening, in obstinate cutaneous affections.

# Electuary with Sulphate of Sodium.

R. Dried sulphate of sodium,

half an ounce. Pulp of tamarinds, one ounce. Syrup of lemon juice, sufficient. Two spoonfuls every hour, till it Phœbus.

### Compound Solution of Sulphate of Sodium.

R. Sulphate of sodium, fourteen drachms. Acetate of potassium, twenty-four grains. Nitre, eighteen grains.
Tartar emetic, quarter of a grain.
Water, two pints.
Dissolve, and filter; in wineglassfuls, in habitual constipation.
Soubeiran.

## Emulsion with Sulphate of Sodium.

R. Sulphate of sodium, one ounce.
Oil of almonds, one fl. ounce.
Yolks of eggs, two.
Syrup of manna, two fl. ounces.
Fennel water, six fl. ounces.
Mix. Dose, two spoonfuls. Phæbus.

# Lemonade with Sulphate of Sodium.

R. Sulphate of sodium,

one ounce and a half.

Lemon juice, half an ounce.
Sugar, three ounces.
Water, sixteen fl. ounces.

Mix. Radius.

### Clyster of Sulphate of Sodium.

R. Sulphate of sodium, one ounce.

Barley water, six fl. ounces.

Dissolve, and add

Oil of flaxseed, two ounces.

Swediaur.

### Lotion of Sulphate of Sodium.

B. Sulphate of sodium, six ounces. Soap, three drachms. Lime water, eighteen fl. ounces. Rectified spirit, six fl. drachms. Mix. In chronic cutaneous affections.

Van Mons.

Paris Codex.

# Suppository of Sulphate of Sodium.

R. Sulphate of sodium,
Soap, each, half an ounce.
Honey, sufficient.
Mix, and make four suppositories.

Phæbus.

#### SODII SULPHIDUM.

SULPHIDE OF SODIUM.

R. Solution of caustic soda, sp. gr. 1.33, at will. Saturate with sulphuretted hydrogen gas, crystallize, keeping the liquid from contact with air, drain and preserve the colorless

crystals.

### Sulphuretted Water.

R. Sulphide of sodium, Chloride of sodium,

each, two grains. Water, twenty-one fl. ounces. Deprive the water of air by boiling, make solution, and preserve in bottles.

Paris Codex.
Sold in France as artificial mineral water of Baréges, Saint Sauveur, etc.

### SODII SULPHIS.

#### SULPHITE OF SODIUM.

It occurs in white efflorescent prismatic crystals, is soluble in four parts of cold and less than one part of boiling water; it has a sulphurous taste and an alkaline reaction. It is purgative and is used in zymotic diseases. Its solution, locally applied to ulcers, acts as a stimulant to healthy action, sedative and deodorizer. When used internally, acidulous drinks should be avoided. Dose, three to six drachms a day, dissolved in water.

### Solution of Sulphite of Sodium.

R. Sulphite of sodium, one drachm. Water, one fl. ounce. Dissolve. As a mouth wash. Aitken.

### Lotion of Sulphite of Sodium.

R. Sulphite of sodium, one drachm.

Water, three drachms.

Glycerin, one ounce.

Dissolve and mix. In pruritus pudendi and sycosis.

Frizell.

#### SODII SULPHO-CARBOLAS.

SULPHOCARBOLATE OF SODIUM.

B. It is made by precipitating a solution of sulpho-carbolate of calcium with a solution of sulphate or carbonate of sodium, filtering, evaporating, and crystallizing.

Recommended by Dr. Samson as a means for introducing carbolic acid into the system without the disadvantages usually attending its direct administration. Dose, ten to forty grains, dissolved in water.

# SODII SULPHURETUM.

SULPHURET OF SODIUM.

R. Sulphur, twenty parts.
Carbonate of sodium,
dried, twenty-seven parts.

Mix, heat in a matrass till melted; on cooling, detach, and keep in a well-closed vessel.

Cottereau.

### Bath with Sulphuret of Sodium.

R. Sulphuret of sodium, ten ounces.
Solution of common salt
and gelatine,

(see page 546), four fl. ounces.

Mix with the water of the bath, at the moment the patient enters it. In chronic cutaneous affections.

Cadet.

# Mixture of Sulphuret of Sodium and Sal Ammoniac.

R. Sulphuret of sodium, one drachm. Chloride of ammonium,

fifty grains.

Dissolve each in six ounces of water, mix the solutions, after having filtered them. As a lotion in itch, etc. Van Mons.

### Lotion with Sulphuret of Sodium.

R. Sulphuret of sodium,

three ounces. one ounce and a half.

Dissolve in

Soap,

Alcohol, one pint.

Add to the solution

Lime water, eight pints.

In tinea capitis; the head to be washed with it every day, without removing the hair.

### Liniment of Sulphuret of Sodium.

R. Sulphuret of sodium,

four parts and a half.

Sulphur,

Oil of almonds,

each, one part and a half.

Lard, six parts and a half.

Rub the powders with the lard, and gradually add the oil. As a lotion in chronic cutaneous diseases. Van Mons.

#### Ointment of Sulphuret of Sodium.

R. Sulphuret of sodium,

Lard, one ounce and a half.

Rub well together. As an application in itch.

Swediaur.

### SODII TARTRAS.

TARTRATE OF SODIUM.

# Effervescing Solution of Tartrate of Sodium.

R. Tartaric acid,

twenty-four troyounces.

Bicarbonate of sodium,

twenty-two troyounces.

Sugar, sixty-four troyounces. Water, sufficient.

Mix the bicarbonate with eight pints of water, and gradually add the acid; when dissolved add the sugar and sufficient water to make the measure twenty-one pints and five fl. ounces. Put up in twelve ounce bottles, and just before corking add thirty grains of bicarbonate of sodium, rubbed up with one drop of oil of lemon. Used as a refrigerant purgative.

J. L. Smith.

### SODII VALERIANAS.

VALERIANATE OF SODIUM.

R. Fusel oil, four fl. ounces (imp.). Bichromate of potassium,

nine ounces (avoir.).

Sulphuric acid,

six fl. ounces and a half (imp.).
Solution of soda, sufficient.
Distilled water,

half a gallon (imp.).

Dilute the sulphuric acid with ten fl. ounces of water; and dissolve the bichromate in the remainder of the water. When both solutions are cool, place them in a matrass, add the fusel oil, shake well together, until the temperature of the mixture falls to about 90° F. Connect the matrass with a condenser, apply heat, and distil half a gallon. Saturate the distillate accurately with the caustic soda, remove the oil from the surface, and evaporate until watery vapor ceases to escape, and then raise the heat cautiously, so as to liquefy the salt. When the product has cooled and solidified, break it into pieces, and immediately put it into a stoppered bottle.

Brit. Ph.

The valerianate of sodium is rarely used in medicine; but it constitutes the source from which all the other valerianates are obtained by double decomposition. Dose, one to five

grains.

# SOLIDAGO.

#### GOLDEN ROD.

Of the numerous species of this genus indigenous to this country, one only, S. odora, has been used in medicine. In Europe, the S. virgaurea is used.

Sex. Syst. Syngen. Nat. Syst. Asteraceæ. It is a smoothish herb, with linear-lanceolate leaves, which are entire and pellucid punctate, and paniculate racemes of goldenyellow flowers. The tops and leaves are officinal; they have an agreeable anisate odor, and are used as an aromatic stimulant and carminative, in the form of infusion, made from one ounce to a pint of hot water. Dose of the infusion, a wineglassful.

### SPIGELIA.

#### PINKROOT.

This is the root of the Spigelia marilandica, a beautiful, herbaceous, perennial plant, a native of the southern and southwestern parts of the United States.

Sex. Syst. Pentand. mong. Nat. Syst. Lo-

ganiaceæ.

Linn. Sp. Pl. 249. Griffith, Med. Bot. 466. The root consists of numerous small, blackish fibres, forming a dense bunch, and arising from a short rhizome. The odor is faint, and the taste sweetish, bitter, and unpleasant. It is a safe and tolerably certain anthelmintic, with slight purgative and narcotic properties. It is given in powder, in the dose of one to two drachms for an adult, ten to twenty grains for a child; to be repeated morning and evening, for a few days, and followed by an active purgative.

#### Pinkroot with Calomel.

R. Powdered pinkroot, ten grains.
Calomel, four grains.

Nice To be taken to be seen to

Mix. To be taken two mornings in succession; and on the afternoon of the second day, followed by a purgative. For children above four years of age.

Ellis.

#### Pinkroot with avine.

R. Powdered pinkroot,

and strain.

senna, each,

two scruples. savine, twelve grains.

U. S. Ph.

Mix, and divide into six powders. One, every morning, for three days, followed by a purgative.

#### Infusion of Pinkroot.

R. Pinkroot, half a troyounce.
Boiling water, one pint.
Macerate for two hours, in a covered vessel,

Four fl. drachms to a fl. ounce to children, four to eight fl. ounces to adults, morning and evening, followed by a purgative.

ounce contains the strength of two drachm drachm and a half of pinkroot and a drachm and a half senna. Dose, for a child, a teaspoonful.

T. Estlace

# Compound Infusion of Pinkroot. (Worm Tea.)

R. Pinkroot, half an ounce.
Senna, two drachms.
Manna, one ounce.
Savine, two scruples.
Fennel seed, two drachms.
Boiling water, one pint.
Infuse. Dose, one tablespoonful for a child

Infuse. Dose, one tablespoonful for a child two years old, three times a day. Ellis.

R. Pinkroot,
Bruised rhubarb,
Senna,
Semen contra,
Manna,
Coriander,
Boiling water,

One ounce.
one drachm.
two drachms.
two drachms.
half a drachm.
one quart.

Infuse. A small teacupful three times a day.

Hays.

#### Fluid Extract of Pinkroot.

R. Pinkroot, in powder,

No. 60, sixteen troyounces.
Alcohol, eight fl. ounces.

Glycerin,

Water, each, four fl. ounces.

Moisten the powder with four fl. ounces of the mixed liquids, pack in a percolator, add the remaining mixture, and macerate for four days; then, with diluted alcohol displace twenty-six fl. ounces, reserving the first ten, add to the remainder four fluidounces of glycerin, evaporate to six fluidounces, and mix with the reserved portion.

#### Compound Fluid Extract of Pinkroot.

R. Bruised pinkroot,
Senna,
Savine,
Manna,
Sugar,
Alcohol,
Boiling water,

four ounces.
three ounces.
eight ounces.
half a pint.
two pints.

On the pinkroot, senna, and savine, pour the boiling water, and cover till cool. Then add the alcohol, and macerate for twenty-four hours; transfer to a displacement apparatus, and, having displaced, evaporate the product, at a low heat, to twelve fluid-ounces, in which dissolve the manna and sugar, and evaporate to one pint. One fl. ounce contains the strength of two drachms of pinkroot and a drachm and a half of senna. Dose, for a child, a teaspoonful.

T. Estlack.

R. Fluid extract of spigelia,

ten fl. ounces.

senna,

six fl. ounces.

Oil of anise,

caraway, each,

twenty minims.

Mix thoroughly to dissolve the oils.

half this strength.

Dose, one fl. drachm to a child three years old.

# SPIRÆA.

### HARDHACK.

The U. S. Ph. indicates the root of Spirae tomentosa as officinal; but this portion is less active than the leaves and flowers. It is a beautiful shrub, with spikes of rose-colored flowers, and leaves of a dark green color above and white beneath.

Sex. Syst. Icosand. pentagyn. Nat. Syst.

Rosaceæ.

Linn. Sp. Pl. 701. Griffith, Med. Bot.

The leaves and flowers are usually sold in packages; they have an odor not unlike that of black tea, and a bitter, very astrin-gent taste. The Hardback is a tonic and astringent of considerable powers, and has the advantage of seldom being offensive to the stomach.

#### Decoction of Hardhack.

R. Hardhack, one ounce. Water, one pint and a half. Boil down to one pint. Dose, from one to two fl. ounces. Wood.

#### Extract of Hardhack.

R. Hardhack, at will. Water, sufficient.

Exhaust by the process of displacement, and evaporate the product by means of a water-bath to proper consistence. Dose, five grains to a scruple. Griffith.

### SPIRITUS ÆTHERIS NITROSI.

SPIRIT OF NITROUS ETHER. SWEET SPIRIT OF NITRE.

R. Nitric acid, three fl. ounces. Sulphuric acid, two fl. ounces. Fine copper wire, two ounces. Rectified spirit, sufficient.

To twenty fl. ounces of the spirit add the sulphuric acid, then two and a half fl. to the presence of iodine.

Fluid Extract of Pinkroot and Senna. | ounces of the nitric acid, and distil from a glass retort containing the copper at a tem-perature between 170° and 180°. When twelve fl. ounces have passed over, allow to cool, add the remaining nitric acid and distil as before, to make the entire distillate measure fifteen fl. ounces. Add to this forty fl. ounces of alcohol, or sufficient to make the specific gravity of the mixture

> Spirit of nitrous ether of U. S. Ph. is made by the same process, and is of one-

R. Alcohol, twelve parts. Nitric acid, ten parts. Distil ten parts, neutralize distillate with magnesia, and rectify.

### Mixture of Sweet Spirit of Nitre.

R. Sweet spirit of nitre,

one fl. drachm.

Hoffmann's anodyne, Aromatic ammoniated alcohol, each, two fl. drachms. six fl. ounces. Mint-water, Mix. Dose, a tablespoonful occasionally.

Brera.

### Mixture of Hyponitrous Ether.

R. Powdered ipecacuanha,

half a drachm.

Boiling water, sufficient to obtain six ounces of infusion. Strain and add

Spirit of nitrous ether,

one fl. ounce.

Extract of juniper berries,

one ounce.

Mix. Dose, a tablespoonful every two hours, in the dropsical swellings consecutive to scarlatina. Radius.

### SPONGIA.

#### SPONGE.

Sponge is the horny skeletons of small polymorphous marine animals, found attached to submerged rocks in the seas of most warm climates. As found in the shops, it is in the form of a light, porous mass, of a yellowish-brown color, and very elastic, and readily imbibing fluids.

It is used for the purpose of cleansing the surfaces of wounds and ulcers, and, in a compressed state, to form tents to dilate sinuses, etc. When burnt, or reduced to charcoal, it has been given successfully in some diseases; probably owing its efficacy

#### Burnt Sponge.

R. Sponge,

at will.

Cut in pieces, separate any extraneous matters by beating, then burn in a closed iron vessel till it becomes black and friable, and rub into a fine powder. U. S. Ph.

Used in goitre, glandular swellings of a scrofulous nature, etc.; in doses of one to

three drachms.

### Powder of Burnt Sponge.

R. Burnt sponge, ten grains. Powdered rhubarb, four grains.

Mix. To be taken morning and evening. In scrofula.

### Compound Powder of Burnt Sponge.

R. Burnt sponge, six drachms. Powdered cinnamon, ginger,

each, one drachm.

Sulphate of potassium,

two drachms. Sugar, five drachms.

Greek Ph. Dose, a teaspoonful three times a day, in scrofula.

R. Burnt sponge, four drachms. Carbonate of magnesium, each, Nitre. two drachms. White sugar,

Rub into powder. Dose, as above. Clarus.

# Bolus of Burnt Sponge.

R. Burnt sponge, one scruple. Sulphate of potassium,

fifteen grains. Balsam of sulphur (Lond. Ph.), ten drops. Syrup, sufficient.

Mix, and form two boluses. One, morning and evening, in scrofula. Cadet.

# Electuary of Burnt Sponge.

half an ounce, R. Burnt sponge, Syrup of orange-

> peel. one ounce and a half.

Mix. Two to four spoonfuls a day, in Radius. day. goitre, etc.

### STANNUM.

TIN.

#### Powder of Tin.

R. Tin, at will.

Melt in an iron vessel, and, while cooling, stir till reduced to powder, which is then to be sifted. U. S. Ph. 1850.

As an anthelmintic, in doses of half an ounce, mixed with syrup or molasses, for several mornings, followed by an active purgative.

### Electuary of Tin.

R. Powder of tin, one ounce. Extract of wormwood, Powdered jalap, each, one drachm. Compound syrup of sufficient. chicory,

Mix. To be taken in twelve doses. Foy.

### Ointment of Tin.

R. Amalgam of tin, half an ounce. Rose ointment, one ounce. Red precipitate, two drachms. Oil of peppermint, twenty drops. Rub well together. Said to be useful in hemorrhoids. Brera.

# STANNI CHLORIDUM.

### CHLORIDE OF TIN.

R. Tin, at will. Muriatic acid, sufficient. Dissolve, and crystallize. Van Mons. Used as an antispasmodic and a vermifuge. Dose, one-eighth to one-half of a grain.

#### Lotion of Chloride of Tin.

R. Chloride of tin, one to six grains. Distilled water, six ounces. Dissolve. In cutaneous diseases of a chronic and obstinate character. Schlessinger.

# STANNI OXIDUM.

#### OXIDE OF TIN.

at will. R. Tin, Keep it melted in an open vessel, constantly stirring, till it is reduced into a gray powder, and sift.

Has been recommended in tapeworm, in doses of five or six grains, several times a

# STANNI SULPHURETUM.

SULPHURET OF TIN.

R. Tin, three parts. Sulphur, one part.

Heat in a crucible, as long as a flame arises; then cool, and pulverize. As a vermifuge, in doses of ten to twenty grains.

Van Mons.

#### Compound Powder of Sulphuret of Tin.

R. Sulphuret of tin, four parts. Powdered jalap, two parts. Assafetida, one part.

Mix. Twelve to twenty grains three times a day, as a vermifuge. Port. Ph.

#### Aurum Musivum. (Mosaic Gold.)

R. Tin, twelve parts. Melt at a low heat in an earthen crucible;

Mercury, six parts, to make an amalgam; add

Sulphur, seven parts. Sal ammoniac, six parts.

Rub well together, introduce into a matrass, and heat moderately until sulphur-etted hydrogen ceases to be given off. When cold, separate and preserve the upper yellow layer of the product.

Dorvault.

Employed under the name of bronze powder for ornamental work. It was formerly used as a vermifuge.

#### STAPHISAGRIA.

### STAVESACRE.

The seeds of Delphinium staphisagria, a beautiful annual plant, with terminal racemes of blue flowers; a native of the south of Europe.

Sex. Syst. Polyand. trigyn. Nat. Syst. Ranunculaceæ.

Linn. Sp. Pl. 750. Lindley, Med. Flor. 9. The seeds are large, somewhat triangular, of a brown color, a slight, but unpleasant odor, and an acrid, bitter, nauseous taste. Their active principle, delphinia, is occasionally employed. They are principally used to destroy lice in the hair, but also for other nurposes other purposes.

#### Decoction of Stavesacre.

R. Stavesacre, Water,

Boil down to a pint, and strain. As a lotion in itch. Swediaur.

### Vinegar of Stavesacre.

R. Stavesacre, one part. Vinegar, sixteen parts. Macerate and express. As a wash to destroy vermin in the hair.

#### Ointment of Stavesacre.

R. Stavesacre, powdered, one part. Lard, three parts. Mix thoroughly. To destroy lice. Guibourt.

### Compound Ointment of Stavesacre.

R. Powdered stavesacre, Sulphur, each. Vinegar, one part. Honey, Olive oil, two parts.

Mix. To destroy lice and nits.

Dorvault.

### STATICE.

#### MARSH ROSEMARY.

The root of the Statice Caroliniana is occasionally employed in medicine. This little plant is indigenous in the United States, growing in salt marshes near the sea coast. Sex. Syst. Pentand. pentagyn. Nat. Syst.

Plumbaginaceæ. Nuttall, Gen. i. 206. Griffith, Med. Bot.

Marsh rosemary is a powerful astringent, and is much used in the New England States, in the treatment of diarrhœas, aphthous and ulcerative affections of the mouth and fauces, and in other cases requiring the use of astringents. Dose, ten to thirty grains.

### Decoction of Marsh Rosemary.

R. Root of marsh rosemary, bruised, one ounce. Boiling water, one pint. Boil for fifteen minutes, and strain. Dose, a wineglassful.

# STILLINGIA.

#### QUEEN'S ROOT.

The root of Stillingia sylvatica is the part used. The Queen's root, or Queen's delight, as it is often termed, attains a height of two or three feet. It is found in the pine barone pint and a half. rens of the Middle States.

Sex. Syst. Monœc. monad. Nat. Syst. Euphorbiaceæ.

Willd. Sp. Pl. iv. 588.

In large doses (twenty to thirty grains), it is emetic and cathartic; in doses of three to five grains, it is an alterative.

### Fluid Extract of Stillingia.

R. Stillingia, in powder,

sixteen troyounces. No. 60, Glycerin, three fl. ounces. twelve fl. ounces. Alcohol, Water, one fl. ounce.

Moisten the powder with four fl. ounces of the mixed liquids, pack firmly in a percolator, add the remaining mixture, and macerate for four days. Then, with diluted alcohol, displace twenty-four fl. ounces, reserving the first fourteen, add to the remainder one fl. ounce of glycerin, evaporate to two fl. ounces, and mix with reserved U. S. Ph. portion.

### Decoction of Queen's Root.

R. Bruised Queen's root, one ounce. Boiling water, twenty fl. ounces. Boil down to a pint, and strain. Dose, one G. B. Wood. or two fl. ounces.

### STRAMONIUM.

STRAMONIUM.

THORN-APPLE. — JAMESTOWN WEED.

Several parts of the Datura stramonium are used in medicine, as the root, leaves, and seeds. It is an annual herbaceous plant, found in the United States, having a rank, fetid odor, and bearing large, funnelshaped, white flowers.

Sex. Syst. Pentand. monog. Nat. Syst.

Solanaceæ.

Linn. Sp. Pl. 255. Griffith, Med. Bot. 490. The leaves have a fetid, narcotic odor, and a bitter, nauseous taste; the odor is lost on drying, but the taste remains. The seeds are small, reniform, of a brownish-black color, inodorous, of a bitter, somewhat acrid taste. Stramonium is a power-ful narcotic, and is much used in a variety of affections, both internally and externally. The dose of the powdered leaves is from two to three grains, of the seeds about a grain.

#### Pills of Stramonium Seed.

### R. Powdered stramonium

seed. ten grains. camphor, one drachm. savine, five scruples. Extract of seneka, four scruples. Mix, and make pills of two grains. Dose,

six, three times a day. In rheumatism.

# Compound Stramonium Pills.

R. Extract of stramonium,

one drachm. Soap, two drachms. Powdered gum Arabic,

one scruple. liquorice, two scruples. Mucilage of tragacanth, sufficient. Make mass, and divide into sixty pills. One, night and morning, in asthma.

Halford.

### Extract of Stramonium Seed.

R. Stramonium seed, in powder,

No. 50, sixteen troyounces. Diluted alcohol,

Moisten the powder with four fl. ounces of the alcohol, then introduce into a percolator, add twelve fl. ounces of diluted alcohol, macerate for four days, and exhaust by means of diluted alcohol. Distil the filtered liquor, and evaporate the residue to a proper consistence. U. S. Ph.

Brit. Ph. directs the seeds to be freed from fixed oil, previous to being exhausted by diluted alcohol. Paris Codex prepares with sixty per cent. alcohol, an extract which is to be dissolved in four times its weight of cold water, the solution filtered,

and evaporated.

Dose, a quarter to half a grain twice a day, gradually increasing.

### Extract of Stramonium Leaves.

R. Stramonium leaves, recently dried, and

in powder, No. 60, sixteeen troyounces.

Alcohol, one pint. Diluted alcohol, sufficient.

Exhaust the powder, using first the alcohol, afterwards diluted alcohol; evaporate the first pint of tincture spontaneously to three fl. ounces, and the remainder, by means of a water-bath, to the consistence of a syrup. Mix the liquids, and evaporate at or below 120° to an extract.

U. S. Ph.

Used like the next.

### Inspissated Juice of Stramonium Leaves.

R. Stramonium leaves, twenty parts. Bruise in a stone mortar, with a little water. Express, and heat the juice to near the boiling point; strain, evaporate to two parts, and mix with an equal weight Vogt. of alcohol. After twenty-four hours ex-

press and wash the precipitate with diluted alcohol, and evaporate the filtrate to the Ph. Germ. proper consistence.

Paris Codex directs to evaporate the juice to one-third, cool, strain after twelve hours, and evaporate to an extract.

Dose, one grain twice a day, gradually increasing till it produces its effects.

#### Mixture of Extract of Stramonium Seed.

R. Extract of stramonium twelve grains. Antimonial wine, half a fl. ounce. Dissolve. Ten drops every three hours, in

an infusion of balm, as an antispasmodic. Hufeland.

### Anti-rheumatic Lotion.

R. Stramonium seed, bruised, one ounce. Alcohol, one pint. Infuse, strain, and add

Opium, in powder, one ounce. Camphorated alcohol,

two fl. ounces.

Mix. In frictions to the diseased part.

Pierguin.

#### Syrup of Stramonium.

R. Sugar, fifteen ounces. Tincture of stramonium,

two fl. ounces. Distilled water, seven fl. ounces. Mix, and form syrup without heat, and strain. Béral.

R. Stramonium seed, bruised, one ounce. Vinegar, one pound.

Infuse for two days, strain, and add

two pounds. Sugar, Dissolve. Wirt. Ph.

#### Tincture of Stramonium Seed.

R. Stramonium seed, in powder, No. 50, four troyounces. Diluted alcohol, sufficient.

Obtain by percolation two pints. U.S. Ph. The tincture of Brit. Ph. is of nearly the same strength; that of Ph. Germ. is about one-third weaker in stramonium seeds, but is made with alcohol sp. gr. 0.892.

Dose, from twenty to forty drops, two or three times a day, increasing till it affects

the system.

### Tincture of Stramonium Leaves.

R. Filtered juice of stramonium leaves,

Alcohol (.847), equal parts. Mix, and filter at the end of twenty-four hours. Béral.

#### Ethereal Tincture of Stramonium.

R. Stramonium seed, one part. Sulphuric ether, four parts. Macerate for a week, and filter. Dose, two to three drops. Soubeiran.

#### Wine of Stramonium.

R. Stramonium seed, bruised, two ounces. eight fl. ounces. Wine, Alcohol, one fl. ounce.

Macerate for some days, and filter. Dose, Van Mons. six drops to a fl. scruple.

#### Ointment of Stramonium.

R. Fresh stramonium leaves,

one pound. Lard. three pounds. half a pound. Wax, Boil the leaves in the lard till they become crisp, then strain through linen; afterwards add the wax, previously melted, and U. S. Ph. 1840. stir till cold.

R. Extract of stramonium,

one drachm. Water, half a fl. drachm. Lard, seven drachms. Rub the extract with the water, and then with the lard. U. S. Ph. A valuable anodyne application to painful hemorrhoids, and tumors.

### Compound Ointment of Stramonium.

R. Bark of the root of bittersweet, Stramonium leaves, each, two Hemlock leaves, ounces. Deadly nightshade leaves, Yellow dock root,

Bruise the roots and leaves, and simmer them in spirit; then add

Lard, one pound, and simmer gently till the leaves are crisped. Express through linen, and add Venice turpentine, two ounces.

to indolent and glandular swellings.

Ecl. Med. Jour.

### Oleo-infusion of Stramonium.

R. Fresh stramonium leaves,

one part. Olive oil, two parts. Heat till all moisture is driven off, then Paris Codex. express and filter.

### STRYCHNIA.

STRYCHNINE.—STRYCHNIA.

R. Nux vomica, rasped,

forty-eight ounces. Powdered lime, six ounces. Muriatic acid,

three fl. ounces and a half.

Alcohol, Diluted sulphuric acid, Solution of ammonia, Purified animal charcoal,

Water,

each, sufficient.

Digest the nux vomica in two gallons of water, acidulated with one-third of the muriatic acid, for twenty-four hours; boil for two hours, express, and strain through linen. Boil residue twice successively, in the same quantity of acidulated water, and proceed as before. Mix the decoctions, and evaporate to consistence of thin syrup; add lime, previously mixed with a pint of water, and boil for ten minutes, often stirring. Pour mixture into a double linen bag, and wash well with water; press, dry, and powder the precipitate. Treat the powder repeatedly with boiling alcohol, till it loses its bitterness; mix the solutions, and distil off the alcohol in a water-bath. Mix the residue with water, apply heat, and drop in sufficient diluted sulphuric acid to dissolve the strychnia; treat with animal charcoal at boiling temperature; filter, evaporate, and crystallize. Dissolve the crystals in water, and add solution of ammonia to precipitate the strychnia. Dry the strychnia on bibulous paper. U. S. Ph.

R. Powdered nux vomica,

nine pounds.

Water, Sulphuric acid, each, sufficient. Powdered quicklime, ten ounces. Alcohol, fifteen pints.

Mix the nux vomica with sufficient water to form a thin paste, and keep at the temperature of 70 or 80°, until gas ceases to form; express, and boil the residue in several successive portions of water, and ex-

Stir well together. A useful application | press. Set liquid aside to deposit; decant, and evaporate to three gallons. Add nine ounces of quicklime, and after six hours' contact, express strongly; heat the liquid to the boiling point, and add a slight excess of sulphuric acid; separate the liquid by decantation, and evaporate to four pints; add one ounce of quicklime, and act as before, adding this precipitate to the former; dry, and powder; digest in five pints of alcohol diluted with five pints of water, at a gentle heat; separate precipitate, and boil in five pints of alcohol twice; mix, and filter solutions; distil off four-fifths, and set aside to crystallize.

Very active and dangerous. Dose, one-sixteenth to one-tenth of a grain, at first, carefully watching the effects, and slowly

increasing.

### Compound Powder of Strychnia.

one grain. R. Strychnia, Black oxide of iron, ) each, one Sugar, drachm. Gum Arabic,

Rub well together, and divide into twelve powders. Brera.

### Pills of Strychnia.

R. Strychnia, two grains. Conserve of roses,

thirty-six grains.

Mix, and make twenty-four pills. One or two, morning and evening, in paralysis.

Magendie.

R. Strychnia, two grains. Extract of valerian, sufficient. Mix well, and make thirty-two pills. One, early in the morning, for five days; then one, morning and evening, in amaurosis. Furnari.

#### Stimulant Pills.

R. Strychnia, one grain. Acetic acid, one minim. Crumb of bread, one scruple. Mix thoroughly, and make ten pills. One to be taken every six hours, in the paralysis arising from lead. A. T. Thomson.

### Tincture of Strychnia.

R. Strychnia, three grains. Alcohol (.842), one fl. ounce. Dissolve. Dose, from six to twenty-four Magendie. drops, twice a day.

### Mixture of Strychnia.

R. Strychnia, one grain. Distilled water, two fl. ounces. White sugar, two drachms.
Acetic acid, three drops.

Mix. One fl. drachm contains one-sixteenth of a grain of strychnia.

Beasley.

### Elixir of Pyrophosphate of Iron, Quinia, and Strychnia.

R. Sulphate of quinia, sixty grains.
Strychnia, one grain.
Citric acid, five grains.

Triturate together, and add

Stronger alcohol, three fl. ounces. Spirit of orange, eight minims. Syrup (heated to 150°),

six fl. ounces.

one fl. ounce.

Stir until quite clear, and add solution of Pyrophosphate of iron,

Water, seven fl. ounces.

Finally neutralize carefully with water of ammonia. A tablespoonful contains  $\frac{1}{48}$  grain of strychnia. C. L. Diehl.

### Elixir of Iron, Pepsin, Bismuth, and Strychnia.

R. Ammonio-citrate of iron,

" " bismuth,

Pepsin (Scheffer's formula),
each, two hundred
and fifty-six grains.

Strychnia, two grains.

Oil of anise,
" cinnamon,
" fennel,

Tinct. fresh orange-peel,

Rose water,
Water, each, six fl. ounces.
Sugar, four and a half troyounces.
Dissolve and mix. Maryland Coll. Ph.
A teaspoonful contains 1/6 grain of strychnia.

#### Elixir of Iron and Strychnia.

R. Ammonio-citrate of iron, one hundred and twenty-eight grs. Strychnia, one grain. Citric acid, five grains. Distilled water, half a fl. ounce. Simple elixir, fifteen and a half fl. ounces.

Dissolve and mix. Maryland Coll. Ph. A tablespoonful contains  $g^1Z$  grain of strychnia.

### Ointment of Strychnia.

R. Strychnia, sixteen grains.
Lard, one ounce.
Rub well together. As a friction on paralyzed parts.

Sandras.

### Strychnia Collyrium.

R. Strychnia, two grains.

Diluted acetic acid, one drachm.

Distilled water, one ounce.

Mix. A few drops of this applied to the eye, several times a day, is stated to be beneficial in amaurosis.

Henderson.

### Liniment of Strychnia.

R. Strychnia, thirty grains.
Olive oil, one ounce and a half.
Rub well together. Ten drops to be rubbed on the temples, in amaurosis.

Neligan.

### STRYCHNIÆ ACETAS.

#### ACETATE OF STRYCHNIA.

R. Strychnia, at will.
Acetic acid, sufficient
to dissolve; evaporate and crystallize.

Griffith.

#### Solution of Acetate of Strychnia.

R. Acetate of strychnia, three grains.
Alcohol, one fl. drachm.
Cinnamon water, seven fl. drachms.
Dissolve. Five drops twice a day.

Radius.

R. Strychnia, one grain.

Distilled vinegar, one fl. drachm.

"water, nine fl. drachms.

Mix. Dose, one fl. drachm; containing one-tenth of a grain.

A. T. Thomson.

### Tincture of Acetate of Strychnia.

R. Acetate of strychnia,
one grain and a half.
Alcohol, half a fl. ounce.
Dissolve. Five to twenty drops, twice a

day, in syphilitic pains in the bones.

Fricke.

### STRYCHNIÆ IODAS.

### IODATE OF STRYCHNIA.

R. Strychnia, at will.
Iodic acid, sufficient

to saturate; dissolve in boiling alcohol, fil- Dissolve. Ten minims contain 24 grain of Magendie. ter, and crystallize.

R. Solution of muriate of at will. strychnia, Solution of iodate of sodium, sufficient

to precipitate; treat as the last. Dose, one-eighth of a grain, in pill. One, morning and evening, gradually increasing. In paraplegia.

# STRYCHNIÆ MURIAS. MURIATE OF STRYCHNIA.

R. Strychnia, at will. Muriatic acid, sufficient to saturate; evaporate and crystallize. Cottereau.

# Solution of Strychnia.

Dose, one-eighth of a grain.

R. Crystallized strychnia, four grs. Diluted muriatic acid, six minims. Rectified spirit, two fl. drachms. Distilled water, six fl. drachms. Dissolve the strychnia, with the aid of heat, in the acid previously diluted with one-half the water, and add the remaining liquids. Dose, five to ten minims. Brit. Ph.

# STRYCHNIÆ NITRAS.

NITRATE OF STRYCHNIA.

R. Strychnia, at will. Nitrie acid, sufficient to saturate, with the aid of heat; filter, while hot, evaporate, and crystallize.

This is as active as strychnia, and is used in similar cases. Dose, one-eighth of a

# Ointment of Nitrate of Strychnia.

R. Nitrate of strychnia,

one grain and a half. Lard, two drachms. Rub well together. Used as a friction on paralyzed parts. Wendt.

# STRYCHNIÆ PHOSPHAS. PHOSPHATE OF STRYCHNIA.

### Solution of Phosphate of Strychnia.

R. Strychnia, two grains. Dilute phosphoric acid, one fl. ounce.

strychnia. Maryland Coll. Ph.

# STRYCHNIÆ SULPHAS.

SULPHATE OF STRYCHNIA.

R. Strychnia, one troyounce. Diluted sulphuric acid, sufficient. Water,

Heat gently the strychnia with the water, drop in the acid (about nine fl. drachms) until neutralized and dissolved; filter and crystallize.

### Hypodermic Injection of Strychnia.

R. Sulphate of strychnia, two grains. Distilled water, two drachms. Dissolve. Dose, one to five and even ten minims, in paralysis and neuralgia.

Eulenburg.

### Syrup of Sulphate of Strychnia.

R. Sulphate of strychnia, five grains. Water, four hundred grains. forty-one troyounces. Syrup, Dissolve the sulphate in the water and mix with the syrup.

Each fl. ounce contains nearly one-sixth of a grain of the sulphate. Paris Codex.

### STYRAX.

#### STORAX

Is the balsam obtained from Liquidambar orientale, a tree indigenous to the Levant. It is obtained by steaming the bruised bark, and then expressing it. It was formerly obtained from Styrax officinale.

Sex. Syst. Monœc. Polyand. Nat. Syst. Balsamifluæ.

Several kinds of Storax are employed; that in grains, in mass, in calamita, and the liquid. It has a fragrant odor, and a warm, aromatic taste. It is a stimulating expectorant. Dose, ten to twenty grains, twice a day.

#### Purified Storax.

R. Storax, Alcohol, each, sufficient. Dissolve, and strain; distil off the alcohol by a gentle heat, till the storax is of pro-U. S. Ph. 1850. per consistence.

### Compound Pills of Storax.

three drachms. R. Purified storax, Powdered opium, one drachm. Saffron, each,

Lond. Ph. of opium.

### Syrup of Storax.

R. Purified storax, three ounces. Alcohol, one fl. ounce. Water, one pint. Digest for twelve hours on a water-bath, and add

Sugar, two pounds. Orange-flower water, one fl. ounce. Giordano. Mix.

#### Ointment of Storax.

R. Liquid storax, ) Yellow wax, each, ten parts. Elemi, Resin, eighteen parts. Olive oil, fifteen parts.

Fuse the wax, elemi, and resin at a moderate heat, remove from the fire, stir in the storax, and afterwards the oil, strain and agitate until it becomes cool.

Paris Codex. Used as a stimulant for indolent ulcers.

### Ointment of Storax and Turpentine.

R. Turpentine ointment, Purified liquid storax,

equal parts.

Mix. Digestif animé of the French.

Paris Codex.

### SUCCINUM.

#### AMBER.

This is a solid body, of various shades of yellow; it is translucent or opaque, and of a vitreous fracture; brittle, tasteless, inodorous, except when heated; then exhaling a peculiar, penetrating, but rather agreeable smell. It is a resin found in a fossil state, in various parts of the world. Not much used in medicine, but extensively employed in the arts.

#### Fumigating Powder.

R. Amber. Mastich, each, four parts. Juniper berries, Cascarilla, one part. Powder, and mix. Scherf.

#### Oil of Amber.

R. Powdered amber, at will. Mix, with an equal weight of sand, in a glass retort, which is to be only half filled.

Beat together. Five grains contain one | Then distil on a sand-bath, gradually increasing the heat. Separate the oil from product, and keep in well-closed bottles.

U. S. Ph.

#### Rectified Oil of Amber.

R. Oil of amber, one pint. Water, six pints. Mix in a glass retort; distil till four pints of water, with the oil, have passed over; then separate the oil, and keep it in wellstopped bottles. U. S. Ph. Stimulant and antispasmodic; in doses

of five to fifteen drops; also used externally.

### Artificial Musk.

R. Oil of amber, one part. Add gradually

Nitric acid, two parts. Let react for twenty-four hours, and wash in cold water. Van Mons.

R. Strong nitric acid, three drachms and a half.

Add very gradually to

Rectified oil of amber, one drachm, in a large glass vessel. When action has ceased, permit to rest for twenty-four hours; then remove the upper or resinous portion, and wash it well in cold and then in hot water, till all acid is removed. Williams.

Used in those cases in which musk is ap-

plicable.

#### Tincture of Artificial Musk.

R. Artificial musk, one part. Alcohol, eight parts.

Dissolve with a gentle heat.

Forty drops as an antispasmodic. Useful in doses of five or six drops, in hoopingcough in children. Van Mons.

R. Artificial musk, two drachms. Alcohol. eight ounces. Dissolve, and filter. Dose, from twentyfive drops to a drachm, according to age. Williams.

### Emulsion of Artificial Musk.

R. Artificial musk, twelve grains. Blanched almonds, Triturate well together, and gradually add six fl. ounces. Water, Dose, for a child of two years, two teaspoonfuls. Valuable in hooping-cough. Hufeland.

#### Liniment of Oil of Amber.

two fl. drachms. R. Oil of amber, half fl. ounce. olives, two fl. drachms. Laudanum, three fl. ounces. Brandy,

Mix. To be rubbed between the shoulders, in hooping-cough and infantile convulsions. Parrish.

R. Oil of amber,

cloves, each, half an ounce. 66 olives, one ounce. Mix. Beasley.

R. Oil of amber, one drachm. Expressed oil of nutmeg,

two drachms. Mix. As a friction in hysteria and headache.

#### Tincture of Amber.

R. Powdered amber, one ounce. Alcohol, fifteen ounces. Digest for six days, and filter. Paris Codex 1837.

Dose, forty to sixty drops.

#### Ethereal Tincture of Amber.

R. Oil of amber, one part. Sulphuric ether, fifteen parts. Mix. Dose, fifteen to thirty drops. Béral.

### Alkaline Tincture of Amber.

R. Powdered amber, two ounces. Solution of carbonate of half an ounce. potassium, Diluted alcohol, eight fl. ounces. Digest for some days, and filter. Dose, twenty to forty drops. Spielmann.

#### Oil of Amber and Copaiba.

R. Balsam copaiba, each, one Oil of turpentine, drachm. amber,

Mix. Dose, thirty to sixty drops, thrice daily, to be followed by half a wineglassful of claret. In leucorrhœa. Known in Austria as French balsamic elixir.

#### Balsam of Amber.

R. Tincture of amber, two fl. ounces. myrrh, one fl. ounce. half fl. ounce. Oil of turpentine, Mix. As an antispasmodic friction. Radius.

R. Powdered amber, one ounce. Oil of turpentine, two ounces. Digest at a gentle heat. Bate.

#### Eau de Luce.

R. Oil of amber, two drachms. White soap, Balsam of Mecca, each. fifteen grains. Rectified spirit, six ounces. Macerate for eight days, and filter. To one fl. drachm of this, add two fl. ounces of water of ammonia. Used in the treatment of snake-bites, as an antispasmodic, Redwood. etc.

#### Mixture of Oil of Amber.

R. Rectified oil of eighty drops. amber, Gum Arabic, Sugar, each, half an ounce. Tincture of tolu, two fl. drachms. Distilled water, four fl. ounces. Mix. A tablespoonful every two or three hours, in spasmodic cough.

#### SULPHUR.

### SULPHUR.

Three officinal forms of sulphur are admitted in the pharmacopæia, viz., Sublimed Sulphur, Washed Sulphur, and Precipitated Sulphur.

#### Sublimed Sulphur.

R. Sulphur, at will. Heat at a temperature of 500° to 600° F., in an earthen vessel, and condense the fumes in a large receiver.

### Washed Sulphur.

R. Sublimed sulphur, twelve parts. Distilled water, eight parts. Water of ammonia, one part. Mix together, macerate for three days, transfer to a strainer, wash well with water, Ph. Germ. and dry.

Other pharmacopæias wash with water only as long as any acid reaction may be observed.

#### Precipitated Sulphur.

R. Sublimed sulphur,

twelve troyounces. eighteen troyounces. Lime, two gallons. Water, sufficient. Muriatic acid,

Slake the lime with a little water, mix it with the sulphur, add the rest of the water, boil for two hours, occasionally adding water, and filter. Dilute the liquid with an equal bulk of water, and add sufficient muriatic acid to precipitate the sulphur. Wash the precipitate till the washings are tasteless, and dry it. U.S. Ph.

Dose, one drachm.

### Powder of Sulphur and Camphor.

R. Washed sulphur,

Sugar, each, half a drachm.
Camphor, six grains.
Mix, and divide into six powders. One, every hour, in mercurial cachexy. Radius.

### Powder of Sulphur and Liquorice.

R. Sulphur, one drachm. Powdered fennel seed,

two drachms.

"liquorice, four drachms.

Mix. A teaspoonful occasionally, in catarrh.

Phæbus.

### Powder of Sulphur and Orris Root.

R. Washed sulphur,

eight to eighteen grains.
Sugar of milk, one scruple.
Powdered orris

root, one to three drachms.

Mix, and divide into eight powders. One, every two hours, in milk, in the catarrh of children.

Kopp.

#### Compound Powder of Sulphur.

R. Sulphur, one ounce.
Powdered fennel, one drachm.
"gum Arabic,

" sugar, each, two ounces.

Mix. Dose, half a drachm to a drachm, in dysentery. Van Mons.

R. Sulphur, two drachms.
Cream of tartar, Powdered fennel, one drachm.
sugar, half an ounce.
Mix. A spoonful two or three times a

day, as a laxative, in constipation.

Radius.

R. Sublimed sulphur,

one drachm and a half.

Brown sugar,

Cream of tartar, each, two drachms.

Mix, and make a powder. To be taken twice a day, in itch, impetigo, or acne.

Ainslie.

Nitre, one of tartar, each, two drachms.

Syrup of orange-peel, su Mix. One or two drachms once a day, in hemorrhoidal affections.

Powder of Sulphur and Cream of Tartar.

R. Sublimed sulphur, half an ounce.

Cream of tartar, one ounce.

Mix with molasses. A teaspoonful four or five times a day, to children, in cutaneous affections.

Ellis.

### Powder of Sulphur and Magnesia.

R. Precipitated sulphur,

Magnesia, each, half an ounce.

Mix. A teaspoonful four or five times a day, as an aperient.

Ellis.

### Powder of Sulphur and Antimony.

R. Washed sulphur, two drachms.
Golden sulphuret of antimony,
Camphor, each, eight grains.
Sugar, two scruples.

Mix, and make a powder. Hufeland.
As a diaphoretic.

Sulphur Electuary.

R. Sublimed sulphur, four ounces. Cream of tartar, one ounce. Syrup of orange-peel,

four fl. ounces.

Rub well together. Dose, two drachms as a laxative. Brit. Ph.

R. Precipitated sulphur,

one drachm and a half.
Orange marmalade, half an ounce.
Pulp of tamarinds, two ounces.
Sugar, one ounce.

Mix. A tablespoonful three times a day, in hemorrhoids. Radius.

R. Sulphur,

Burnt sponge, each, two drachms. Prepared oyster-shell, one drachm. Conserve of roses,

two ounces and a half.

Mix. A teaspoonful three or four times a day, as an alterative, in scrofulous affections.

Vogt.

### Compound Electuary of Sulphur.

R. Washed sulphur,

one ounce and a half.
Confection of senna, two ounces.
Nitre, one drachm.
Syrup of orange-peel, sufficient.
Mix. One or two drachms once or twice

R. Sublimed sulphur, half an ounce.

Cream of tartar,

one drachm and a half.

Confection of senna, one ounce.

Simple syrup,

Sufficient.

Mix and make electrory.

A teaspoonful

Mix, and make electuary. A teaspoonful at bedtime, for hemorrhoids. Ainslie.

R. Sublimed sulphur, two ounces.
Cream of tartar, one ounce.
Powdered guaiacum, rhubarb,

Spirit of nutmeg,

each, two drachms. Honey, sufficient.

Mix, and make electuary. Known in England as *The Chelsea Pensioner*, and employed for the various forms of chronic rheumatism, in doses of one or two drachms, morning and evening.

### Linetus with Sulphur.

R. Washed sulphur, half a drachm. Benzoic acid, fifteen grains. Syrup of violets,

Oxymel, one ounce and a half.

Oxymel, one ounce.

Mix. A tablespoonful occasionally, as an expectorant.

Bories.

### Electuary of Sulphur.

R. Washed sulphur, half an ounce. Confection of senna,

Syrup, one ounce and a half.
Syrup, sufficient.
Mix. A teaspoonful morning and evening, in hemorrhoids.

Lewis's Disp.

#### Sulphur Mixture.

R. Precipitated sulphur, two drachms.

Laudanum, twenty drops.

Water, four fl. ounces.

Mix. One spoonful three times a day, in mercurial disease.

Radius.

- R. Precipitated sulphur, two drachms.
  Fennel water, three fl. ounces.
  Cinnamon water, one fl. ounce.
  Syrup of opium, half a fl. ounce.
  Mix. A spoonful every two hours, in diabetes mellitus.

  Augustin.
- R. Washed sulphur,
  Mucilage,
  Sugar,
  Rose water,
  One scruple.
  seven drachms.
  half an ounce.
  one fl. drachm.

R. Sublimed sulphur, half an ounce. A teaspoonful every hour, in pectoral affections of young children. Phaebus.

### Water of Sulphur.

R. Flowers of sulphur, one ounce.
Water, two pints.
Shake occasionally for some hours, and

pour off the clear liquid.

Amer. Journ. Ph. 1872, p. 6.
Recommended by J. L. Davis as a remedy
for dandruff, the head to be saturated with
it in the morning. Its effects may be probably due to traces of sulphurous and sulphuric acids.

### Balsam of Sulphur.

R. Washed sulphur, two ounces.
Olive oil, eight ounces.
Heat the oil, and gradually stir in the sulphur, till it assumes the consistence of a thick balsam.

Lond. Ph. 1746.
Used as an external application to foul

Sulphurated Linseed Oil.

R. Sublimed sulphur, one part.
Linseed oil, six parts.
Mix, and boil with constant stirring, into a homogeneous mass. This is the balsam of sulphur of Ph. Germ.

### Ethereal Balsam of Sulphur.

R. Terebinthinated balsam of
sulphur,
Sulphuric ether,
each, half a drachm.
Dippel's animal oil, six drachms.
Mix. In flatulent colic.

Augustin.

### Terebinthinated Balsam of Sulphur. (Sulphurated Oil of Turpentine.)

R. Sulphur, one part.
Oil of turpentine, three parts.
Mix, digest, and decant the clear solution.

Ph. Germ.
As an external application to ulcers, etc.

#### Ointment of Sulphur.

one scruple.
seven drachms.
half an ounce.
one fl. drachm.

R. Sublimed sulphur, one troyounce.
Lard, two troyounces.
Mix. This is also the formula of Ph. Germ.,
and with the addition of five drachms of
almond oil of Paris Codex. U. S. Ph.

R. Sublimed sulphur,
Benzoinated lard,
Mix.
As an application in itch.

one ounce.
four ounces.

Brit. Ph.

### Compound Sulphur Ointment.

R. Sulphur, one ounce.

Ammoniated mercury,
Benzoic acid, each, one drachm.
Oil of bergamot,
Sulphuric acid, each,
one fl. drachm.

Nitrate of potassium, two drachms.
Lard, half a pound.

Melt the lard, add the other ingredients, and stir till cold.

U. S. Ph. 1850.

As an application in itch, tinea capitis, crusta lactea, etc.

R. Sulphur, half a pound.

Powdered white hellebore, two ounces.

Nitrate of potassium, one drachm.

Soft soap, half a pound.

Lard, one pound and a half.

Oil of bergamot, thirty minims.

Mix.

Lond. Ph. 1836.

R. Sulphur,
Oil of cade, each,
Lard,
Soft soap, each,
Prepared chalk,
Mix. In itch.

three parts.
eight parts.
two parts.

Hebra.

Used as the last, but more irritating.

R. Sulphur, two parts.
Carbonate of potassium, one part.
Lard, eight parts.
Mix. In itch. Foy.

R. Sulphur, two ounces.

Powdered chloride of
ammonium, two drachms.
Oil of mint, one drachm.
Lard, four ounces.

Mix. In cases of inveterate itch.

Dewees.

R. Washed sulphur, ten drachms.
Carbonate of potassium,
half an ounce.
Cinnabar, one ounce.
Oil of bergamot, half a fl. ounce.
Lard, ten ounces.

Mix. In itch.

### Ointment of Sulphur and Camphor.

R. Washed sulphur, half a drachm.
Camphor, one scruple.
Rose ointment, one ounce.
Oil of roses, three drops.
Mix. As an application in psorophthalmia.

Mix. As an application in psorophthalmia.

Allen.

### Ointment of Sulphur and Soap.

R. Sulphur, one part.
Soft soap, two parts.
Mix. In itch.

Radius.

### Ointment of Sulphur and Zinc.

R. Washed sulphur,
Sulphate of zinc, each, one part.
Lard, eight parts.
Mix. In tinea capitis. Ph. Germ.

R. Sulphur, four parts.
Oxide of zinc, three parts.
Oil of bayberries, six parts.
Lard, twelve parts.

Mix. As last.

Van Mons.

### Liniment of Sulphur and Soap.

R. Soap, one ounce.
Water, three ounces.
Dissolve with a gentle heat, and add
Sulphur, one ounce.
Used as a lotion in itch.

Lugol.

#### Cerate of Sulphur.

R. Washed sulphur,
Galien's cerate,
Oil of almonds,
Mix.

two parts.
ten parts.
one part.

Paris Codex.

# SULPHURIS CARBURETUM,

### CARBONIS BI-SULPHIDUM.

BI-SULPHIDE OF CARBON.

R. Sulphuret of iron, eleven parts. Charcoal, three parts.

Mix, and introduce into a stone retort, furnished with a glass tube, dipping into water. Separate the sulphuret which collects at the bottom of the water in the recipient, and re-distil it from chloride of lime.

Van Mons.

fl. ounce.
n ounces.
Baseman.
R. Sulphur,
pass the vapor slowly through charcoal,
heated to redness, in a porcelain tube, col-

lect the product in a receiver, and purify by another distillation. Cottereau.

This fluid is extremely volatile, and hence has been suggested as an anæsthetic agent. But thus far, experiments with it have not shown any superiority over other and safer liquids. In fact, they rather prove the reverse. It is used internally as a sudorific in rheumatism; dose, two or three drops. Also used externally.

### Drops of Sulphuret of Carbon.

R. Sulphuret of carbon,

Alcohol, one fl. drachm. half a fl. ounce.

Mix. Four to six drops, every two hours, in rheumatism.

Wutzer.

### Mixture of Sulphuret of Carbon.

R. Sulphuret of carbon, one scruple.
Cow's milk, six fl. ounces.
Sugar, two drachms.

Mix. A tablespoonful four times a day, in hypertrophy of the stomach and contraction of the œsophagus. Clarus.

# Liniment of Sulphuret of Carbon.

R. Sulphuret of carbon,

Oil of almonds, one ounce.

Mix. As an embrocation in gouty nodes.

Mansfield.

R. Sulphuret of carbon, one drachm. Camphorated oil, one ounce.

Beasley.

R. Camphor, two drachms.

Dissolve in

Sulphuret of carbon,

half a fl. ounce;

and add

Alcohol, one fl. ounce.
As an embrocation in rheumatism.

Lampadius.

R. Sulphuret of carbon,

two fl. drachms.

Camphorated ammon.

liniment, two fl. ounces.

Mix. As an embrocation in rheumatism.

Wutzer.

# SULPHURIS IODIDUM.

IODIDE OF SULPHUR.

R. Iodine, four troyounces. Sulphur, one troyounce. thirty minims.

Rub them together, in a porcelain or glass mortar. Put the mixture into a matrass, close the orifice slightly, and apply a gentle heat, so as to darken the mass, but not melt it. When uniformly dark, increase the fire so as to melt the iodine; then incline the vessel in different directions, to return to the mass any portions that have been condensed on the surface of the vessel; lastly, allow the matrass to cool, break it, and put the iodide into well-stopped bottles.

U. S. Ph.

Used mostly as an external application, in cutaneous affections.

n cutaneous anections.

# Powder of Iodide of Sulphur.

R. Powdered iodide of sulphur,

ten grains.

Powdered gum Arabic, sufficient.

Mix, and divide into six powders. One,
morning and evening, for an adult. Useful
in porrigo, prurigo, impetigo, and tinea;
also in noctural incontinence of urine.

Escolar.

### Ointment of Iodide of Sulphur.

R. Iodide of sulphur, thirty grains.

Lard, one troyounce.

Rub the iodide with a little of the lard, then add the remainder, and mix.

U. S. Ph.

Brit. Ph. directs of lard one ounce.

R. Iodide of sulphur, five parts.

Lard, ninety-six parts.

Mix. Foy.

The strength is to be varied according to circumstances. Much used in chronic

cutaneous diseases.

### SUMBULUS.

#### SUMBUL.-MUSKROOT.

Said to be derived from Sumbulus moschatus, an umbelliferous plant of Bucharia. It occurs in round pieces of various dimensions, has a dark brown rough bark, a porous interior, a strong musk-like odor, and a sweetish, then bitter and balsamic taste. It is recommended in low typhoid fevers, and various nervous disorders, in doses of ten to twenty grains.

#### Tincture of Sumbul.

R. Sumbul, in coarse

powder, two ounces and a half. Proof spirit, sufficient.

Obtain, by maceration and displacement, twenty fl. ounces of tincture. Dose, ten to thirty minims.

Brit. Ph.

#### Oleoresin of Sumbul.

R. Powdered sumbul,

a convenient quantity.

Exhaust by ether; recover portion of it by distillation, and evaporate the remainder spontaneously. Dose, one to three grains. Murawieff.

Recommended in hysteria, chronic bronchitis, pneumonia, and other diseases.

### Fluid Extract of Sumbul.

R. Powdered sumbul,

sixteen troyounces.

Exhaust with stronger alcohol by slow percolation, reserve the first fourteen fl. ounces,

evaporate the remainder to two fl. ounces, and mix with reserved portion.

### Compound Elixir of Sumbul.

R. Tincture of sumbul, Syrup, each, four fl. ounces. Elixir of valerianate of ammonium, eight fl. ounces. Compound tinture of cochineal, four fl. drachms.

Mix. Dose, a teaspoonful or more; to be shaken before use.

Amer. Phar. Assoc. 1873.

# Τ.

### TABACUM.

TOBACCO.

Tobacco is the leaves of Nicotiana tabacum, an annual, herbaceous plant, a native of the warmer parts of America, and ex-tensively cultivated in the United States and elsewhere. There are numerous varieties, but, in all of them, the leaves are the part that is used.

Sex. Syst. Pentand. monog. Nat. Syst. Solanaceæ.

Linn. Sp. Pl. 258. Griffith, Med. Bot. 493. Tobacco, as found in commerce, consists of the dried leaves, which are packed in bundles; it has a narcotic, penetrating odor, and a bitterish, nauseous, acrid taste. It has the powers of a sedative narcotic, with those of an emetic and diuretic; it also acts as an errhine and sialagogue. In large doses it acts as a poison. It is employed to produce relaxation in spasmodic affections, as a diuretic, etc.

#### Compound Powder of Tobacco.

R. Powdered tobacco,

valerian, each, two drachms.

Oil of lavender, marjoram, each,

three drops.

Mix. Used as a cephalic snuff. Boeli.

R. Powdered tobacco, two grains. Tartar emetic, one grain. Powdered sugar, two drachms. gum Arabic,

Mix, and form twenty powders. One, every two hours, in hooping-cough. Petschaft.

#### Extract of Tobacco.

R. Cut tobacco, four ounces. Water, two pints. Boil, and let simmer for two or three hours, strain, and evaporate to consistence of an extract. For external use in neuralgia. Chippendale.

#### Pills of Tobacco.

R. Extract of tobacco, one drachm. half an ounce. Liquorice, Vinegar of squill, sufficient. Mix, and make one hundred and eighty pills. Dose, one to three, in dropsy. Van Mons.

#### Wine of Tobacco.

R. Tobacco, in powder, No. 50, one troyounce. one pint. Sherry wine, Macerate for seven days, express, and U. S. Ph. From ten to twenty minims, as a diuretic.

#### Tincture of Tobacco.

one ounce. R. Cut tobacco, Diluted alcohol, one pint. Digest for three days, express, and filter. half a drachm. Dose, ten minims. Augustin.

#### Infusion of Tobacco.

B. Tobacco, one drachm.
Boiling water, one pint.

Macerate for an hour in a covered vessel, and strain.

U. S. Ph.

The enema of tobacco of Brit. Ph. is

two-thirds the strength of this.

Used as an enema; one-half only should be used at a time; employed in strangulated hernia, obstinate colic, etc. Great caution must be used, as dangerous effects have followed its administration.

#### Mixture of Tobacco.

R. Tobacco, one drachm.
Boiling water, two fl. ounces.
Infuse for twenty minutes, filter, and add
Alcohol, two fl. drachms.
Thirty to fifty drops, twice or thrice a day, in hydrothorax and dysuria. Fowler.

#### Lotion of Tobacco.

R. Tobacco.

two drachms to half an ounce.
Boiling water, one pint.
Infuse. As a lotion in psora, but must be used with great caution.

Ellis.

### Cataplasm of Tobacco.

R. Tobacco, one ounce.

Beat up with water, and form a cataplasm.

To be applied to the throat in croup, and in spasm of the glottis, etc.

Ellis.

### Ointment of Tobacco.

R. Tobacco, in fine

powder, half a troyounce.
Lard, eight troyounces.

By percolation with water obtain from the powder four fl. ounces of liquid, evaporate

powder four fl. ounces of liquid, evaporate to a soft extract, and mix thoroughly with the lard.

U. S. Ph.

In irritable ulcers, tinea capitis, etc. To be used with caution.

R. Powdered tobacco,
Sulphur, each,
Powdered white
hellebore,
Oleander leaves,
Common salt,
Rose ointment,
Two pounds.

Mix. As an application in psora, etc.

R. Extract of tobacco, one drachm.
Simple cerate, one ounce.
Mix. As a friction in neuralgia.

Chippendale.

#### Oil of Tobacco.

R. Tobacco, at will.

Introduce it into a retort of green glass connected with a receiver, which should be furnished with a tube, to conduct the incondensable gases to a chimney; heat the retort gradually to dull redness until the empyreumatic oil ceases to distil; separate the black tarry product from the acid liquor in the receiver, and preserve it for use.

U.S. Ph.

### Oleo-infusion of Tobacco.

R. Bruised tobacco, one part.
Olive oil, two parts.
Digest until the moisture has evaporated, express, and filter.

Paris Codex.

#### Nicotia.-Nicotina.

R. Kentucky tobacco, at will.

Cut to pieces, and extract it with water; evaporate to an extract, exhaust this with alcohol; distil off the alcohol, treat the soft extract with an excess of potassa in water; agitate this with ether, in separate portions, till the impure nicotina is removed; unite the ethereal liquids, add an excess of pulverized oxalic acid, wash the oxalate of nicotina which precipitates with ether; then treat it with an aqueous solution of potassa, and again agitate the liquid with ether to remove the alkaloid, which is obtained by distilling off the ether in the form of a light brown, syrupy liquid, and consists of nicotina, ether, water, and some ammonia. The last three bodies may be removed by heating the nicotina in a retort to the temperature of 284° F. in a current of hydrogen, for twelve hours; then, by raising the heat to 356° F., the nicotina distils over pure. Schloessing.

Nicotina is too strong for internal administration.

# TAMARINDUS.

#### TAMARINDS.

rachms.

pounds.
etc.
Tamarinds are the preserved fruit of the Tamarindus Indica, a large tree, a native of the East Indies, and extensively cultivated in the tropical parts of America. Those brought here are principally derived from the West Indies.

Sex. Syst. Monadelph. triand. Nat. Syst.

Linn. Sp. Pl. 48. Griffith, Med. Bot. 262. The preserved pods, as they come to us, are in a dark-colored, adhesive mass, formed of pulp, fragments of the pods, seeds, and syrup, of a sweet acidulous taste. They are cooling and laxative; and, when mixed with water, form a grateful drink in febrile diseases.

#### Pulp of Tamarinds.

R. Tamarinds, at will. Digest in an equal quantity of water, then pass through a sieve, evaporate to the thickness of an extract, and with every six parts of it, incorporate

Powdered sugar, one part. Ph. Germ.

### Electuary of Tamarinds.

R. Pulp of tamarinds,

one ounce and a half. Cream of tartar, half an ounce. Syrup of raspberries, sufficient. Mix. Two teaspoonfuls morning and evening, as a laxative. Radius.

#### Infusion of Tamarinds.

R. Pulp of tamarinds, one ounce. Boiling water, two pints. Infuse for one hour, and strain. As a cooling drink in fevers. Cottereau.

#### Tamarind Whey.

R. Milk, two pints. Tamarinds, two ounces. Boil, and strain. As a cooling drink.

Pereira.

# TANACETUM. TANSY.

Tansy, or Tanacetum vulgare, is a perennial herbaceous plant, with numerous yellow flowers; a native of Europe, and generally cultivated in our gardens, and has also become naturalized in some places.

Sex. Syst. Syngen. super. Nat. Syst. As-

teraceæ.

Linn. Sp. Pl. 1184. Griffith, Med. Bot. 406. The leaves and flowering tops are officinal; they have a peculiar and strong odor, diminished by drying; and a warm, bitter, aromatic taste. It is an aromatic bitter, and has been praised in intermittents, hysteria, amenorrhœa, as an anthelmintic, etc. As a vermifuge, the seeds are to be preferred.

### Compound Powder of Tansy.

R. Tansy, each. Wormwood, equal Chamomile, parts. Levant wormseed,

Paris Codex. A coarse powder is made, if it is to be used for preparing an infusion.

### Infusion of Tansy.

R. Fresh tansy, one ounce. Boiling water, one pint. Infuse and strain. Used internally, and as an injection against ascarides.

Niemann.

# Extract of Tansy.

R. Tansy, one pound. Alcohol, one pint. Water. eight pints. Digest for three days, express, distil off the alcohol, and evaporate to proper consistence. Dose, six to twenty grains.

Giordano.

#### Oil of Tansy.

R. Tansy, at will. Water, sufficient to cover. Distil, and separate the oil.

Dose, one to two drops, as a vermifuge.

#### Pills of Tansy.

R. Oil of tansy, one fl. scruple. Extract of English walnut, two drachms. Powdered marsh mallow, sufficient. Mix, and make sixty pills. Three to five every two hours, as a vermifuge. Radius.

### Compound Tincture of Tansy.

R. Tansy, one ounce. Wormwood, Rhubarb, each, three ounces. Sherry wine, two fl. ounces. Diluted alcohol, twenty fl. ounces. Digest for eight days, and filter. Dose, one to two fl. drachms, two or three times a day, as a vermifuge. Van Mons.

#### TAPIOCA

### TAPIOCA

Is a fecula obtained from the root of Janipha manihot, a shrub-like, herbaceous plant, a native of the tropical parts of America, where it is largely cultivated | under the name of Cassava, and forms an important article of food.

Sex. Syst. Monœc. monadelph. Nat. Syst.

Euphorbiaceæ.

Kunth. ii. 85. Griffith, Med. Bot. 601. Tapioca is found in the shops in the form of irregular, rough, white grains, having little odor or taste, swelling up in hot water, and affording a bland and nutritious diet for the sick and convalescent.

### Tapioca Jelly.

R. Tapioca, two tablespoonfuls. Water, one pint. Boil gently for an hour, or till it becomes gelatinous; flavor with sugar, wine, etc., according to circumstances

### Tapioca Pudding.

R. Yolk of eggs, two. half an ounce. Sugar, Beat together, and stir the mixture with

Tapioca mucilage, one pint. Bake in a slow oven. The mucilage should be made with milk, instead of water.

A. T. Thomson.

# TARAXACUM.

#### DANDELION.

This officinal article is the root of Taraxacum dens-leonis, a small, herbaceous plant, with a perennial, fusiform root. It is a native of Europe, but has become naturalized in this country.

Sex. Syst. Syngen. æqual. Nat. Syst. As-

teraceæ.

Haller, i. 23. Griffith, Med. Bot. 414. The root is fusiform, of a light-brown color externally, succulent, inodorous, and of a mucilaginous, bitterish taste. It should be collected in autumn (U. S. Ph. and Ph. Germ.), between September and February (Brit. Ph.). It is aperient, diuretic, and somewhat tonic, and thought to be resolvent in engorgements of the liver.

### Decoction of Dandelion.

### R. Bruised dandelion root,

one ounce. Water, sufficient. Boil for ten minutes in sufficient water to

obtain a pint (twenty fl. ounces). Brit. Ph.

A wineglassful two or three times a day, as a diuretic, etc.

#### Infusion of Dandelion.

### R. Bruised dandelion,

Boiling water,

two troyounces. one pint.

Macerate for two hours in a covered vessel, and strain.

Dose, a wineglassful three times a day.

### Compound Infusion of Dandelion.

R. Infusion of dandelion,

four fl. ounces.

Extract of dandelion,

two drachms.

Carbonate of sodium,

half a drachm.

Tartrate of potassium,

three drachms.

Tincture of rhubarb,

three fl. drachms.

henbane,

twenty drops.

Mix. One-third part three times a day, in dropsical and visceral affections.

Meigs.

#### Fluid Extract of Dandelion.

R. Dandelion, in powder,

No. 50, sixteen troyounces. Glycerin, three fl. ounces. Water, five fl. ounces. Alcohol, eight fl. ounces.

Moisten the powder with four fl. ounces of the mixed liquids, pack in a percolator, add the remainder and macerate for four days; then, with diluted alcohol, displace twentyfour fl. ounces, reserving the first fourteen, add to the remainder one fl. ounce of glycerin, evaporate to two fl. ounces, and mix with the reserved portion.

### R. Dandelion root, fresh,

thirty-two ounces.

Slice it, and reduce to a pulp. Mix this with one-sixth its bulk of alcohol, macerate for twenty-four hours, and express strongly. Add a pint of water containing a little alcohol, and again express. Evaporate the mixed products to twelve fl. ounces, add four fl. ounces of alcohol, and filter.

A teaspoonful is equal to half a drachm of the extract obtained from the expressed W. Procter. juice.

#### Extract of Dandelion.

R. Dandelion, gathered in

September. five pounds. Slice the dandelion; bruise it in a stone mortar, sprinkling on it a little water, until reduced to a pulp. Then express the juice, strain, and evaporate in a shallow dish over a water-bath, constantly stirring, to the U. S. Ph. proper consistence.

Brit. Ph. heats the juice to 212° for ten minutes, strains, and evaporates at or below 160°. Paris Codex evaporates the juice to one-third, cools, strains after twelve hours, and evaporates to the proper consistence. Ph. Germ. directs the entire plant, collected while flowering, and dried, to be exhausted with hot water, and the infusion properly evaporated.

Dose, a scruple to a drachm, three times a day, alone, or dissolved in cinnamon or

mint water.

R. Bruise the recent root, collected in September; add one-fourth its bulk of alcohol; allow the whole to macerate twelve hours, express powerfully, add a little diluted alcohol, and again ex-Evaporate the mixed liquids in a water-bath to the proper consistence.

W. Procter.

### Prepared Juice of Dandelion.

R. Fresh dandelion root,

seven pounds. Alcohol, sufficient. Bruise the root, express the juice, and to every three measures of it add one measure of rectified spirit. Keep in a cool place. Dose, one to two fl. drachms. Brit. Ph.

The U.S. Ph. adds one measure of alcohol to every five measures of the expressed

juice.

#### Fluid Extract of Dandelion and Senna.

R. Senna, two pounds. Torrefied dandelion root,

one pound.

German chamomile,

quarter of a pound. Sugar, twenty ounces. Carbonate of potassium, or carbonate of sodium, one ounce. Oil of wintergreen, half a drachm.

Alcohol, two ounces. Water, half a gallon.

Powder the dry plants, and mix them with the water, holding the alkaline carbonate in solution. Let the mixture stand for twelve hours, then introduce into a percolator, and add water until a gallon of liquid shall have passed. Evaporate on a waterbath to twenty ounces, add the sugar, filter, and when cold add the alcohol, holding the oil of wintergreen in solution. Dose, a teaspoonful to a tablespoonful. E. Dupuy.

#### Pills of Extract of Dandelion.

R. Extract of dandelion,

half a drachm.

Powdered liquorice, sufficient. Mix, and make eight pills. One, three times a day. In dropsy, and diseases of the urinary apparatus.

R. Extract of dandelion, Soap, each, one ounce. Liquid acetate of potassium,

sufficient.

Mix, and make pills of four grains. Four to six in a day, as diuretic, etc. St. Marie.

#### Pills of Dandelion and Blue Mass.

R. Extract of dandelion.

half a drachm. five to ten grains. Blue pill, Powdered uva ursi, sufficient. Mix, and make ten pills. One, thrice a day, in dropsy connected with liver disease.

### Mixture of Dandelion.

R. Extract of dandelion, two ounces. Peppermint water, six fl. ounces. Clarified honey, one ounce.

Mix. Two spoonfuls every three hours.

Richter.

R. Extract of dandelion,

two scruples.

Bicarbonate of sodium,

twenty-four grains.

Tincture of rhubarb,

one fl. drachm.

Infusion of colombo,

eleven fl. drachms.

Caraway water, four fl. drachms. Mix. Dose, a dessertspoonful twice daily, in infantile dyspepsia.

R. Extract of dandelion,

half a drachm.

Decoction of dandelion,

nine fl. drachms.

Spirit of nitrous ether,

one fl. drachm.

Syrup of ginger, two fl. drachms. Mix. To be taken three times a day, as a diuretic, in anasarca and ascites. Sprague.

two drachms. R. Cream of tartar, two scruples. Bruised cloves, one ounce. Sugar, Decoction of dandelion, one pound.

Macerate for two hours, and strain. Onefourth to be given every six hours, in Sprague. dropsy.

### Clyster of Dandelion.

R. Dandelion root, bruised,

three ounces. one ounce. Bran. Water, sixteen fl. ounces. Boil down to eight fl. ounces; add, at close,

Chamomile,

Valerian, each, two drachms. Strain; for two injections. Much praised in obstructions of the bowels. Berends.

### TEREBINTHINA.

### TURPENTINE.

Turpentine is the oleoresin of various species of the Pine tribe, and is also procured from trees of other orders. That used in the United States is obtained from several species of Pinus and Abies, but chiefly from the P. palustris.

Sex. Syst. Monœc. monadelph. Nat. Syst.

Pinaceæ.

Willden. Sp. Pl. iv. 499. Griffith, Med.

The officinal turpentine consists, essentially, of a volatile oil and a resin. All the turpentines are possessed of much the same properties; they have an aromatic odor, and a somewhat pungent and bitterish taste. They are stimulant, diuretic, anthelmintic, and, in large doses, purgative. They are also used externally as rubefacients.

### Turpentine Pills.

R. Turpentine, one drachm. Divide into fifteen pills. One, four or five times a day, in affections of the urinary organs. Ellis.

#### Pills of Turpentine and Guaiacum.

R. Powdered guaiacum, one drachm. Venice turpentine, sufficient. Mix, and make fifteen pills. One, thrice a day; in gleet and leucorrhœa. They some-Ellis. times cause strangury.

### Pills of Turpentine and Magnesia.

R. Turpentine, ten drachms. Calcined magnesia,

seven drachms and a half. Mix, and make into two hundred pills. In diseases of the urinary organs.

### Pills of Turpentine and Rhubarb.

R. Turpentine, two ounces. Extract of rhubarb, three drachms. Camphor, two drachms. Mix, and make pills of four grains. Dose, three, thrice a day, in leucorrhœa and gonorrhœa. St. Marie.

### Pills of Turpentine and Myrrh.

R. Turpentine, Spermaceti, each, half an ounce. Powdered myrrh, two drachms. olibanum, sufficient.

Mix, and make pills of three grains. One every three hours, in chronic catarrh.

Cadet.

### Pills of Turpentine and Jalap.

one drachm. R. Turpentine, Soap of jalap, half a drachm. Extract of henbane, four grains. eight grains. Calomel, Make pills of three grains. every three hours, for two days. As an anthelmintic. Augustin.

### Electuary of Turpentine.

R. Turpentine, each, Soap, one drachm. Powdered rhubarb, Syrup, sufficient. Mix. Three teaspoonfuls a day, in dropsy. Radius.

#### Turpentine Clyster.

R. Venice turpentine, half a fl. ounce. Yolk of egg, Infusion of flaxseed, ten fl. ounces. Rapeseed oil, one fl. ounce. Mix. In colic and obstinate constipation. Ph. Noscom. Ed.

#### Liniment of Turpentine.

R. Yellow wax, one part. Melt, and add

Turpentine,

Oil of turpentine, each, one part. Mix. Much praised in chronic ulcers on Van Mons. the legs.

R. Yellow wax, half a pound. one pound. Olive oil, Red saunders, two ounces. one pound. Turpentine,

Paris Codex. Melt together, strain, and add

Camphor, two drachms.

As an application to contusions and ulcerations.

Van Mons.

R. Oil of turpentine, Olive oil,

each, one ounce and a half.
Diluted sulphuric acid,

three drachms.

Mix. As an embrocation in rheumatism.

Chapman.

### Ointment of Turpentine.

R. Turpentine,
Yellow wax,
Oil of turpentine,

equal parts.

Melt, mix, and stir until cool. Ph. Germ.

### Compound Ointment of Turpentine.

R. Turpentine,
Yolk of egg,
Olive oil,

four drachms.
two drachms.
one drachm.

Beat together into a uniform mass.

Paris Codex.

This is the digestif simple of the French; the formula of Ph. Germ. directs for the above quantities, in addition, eight grains each of powdered myrrh and aloes.

R. Mucilage, one pound.
Fresh butter, two pounds.
Olive oil, three pounds and a half.
Melt together, and add

Turpentine, three ounces.

Mix well. As an application in engargement of the breasts, in nephritic pains, etc.

Swediaur.

### Turpentine Plaster.

R. Turpentine,
White of egg,
Wheat flour,
Sugar,
Honey,
Brandy,
Olive oil,

Mix the turpentine and honey, gradually adding the other ingredients, and rub well. As an application to painful ulcers.

St. Marie.

#### Compound Turpentine Plaster.

R. Turpentine, eight parts.
Suet, twenty-four parts.
Yellow wax, thirty-two parts.
Essence of mint,

cloves, each, one part. shade.

Oil of mace, six parts.
Powdered benzoin, eight parts.
" olibanum, sixteen parts.
Mix, with the assistance of heat. Useful in diarrhœa, dyspepsia, flatulence, and colic.
Ph. Suea.

### Terebinthinate Syrup.

R. White turpentine, one troyounce. Tincture of tolu, half a fl. ounce. Carbonate of magnesium,

four drachms.

Triturate well together, add gradually six fl. ounces of water, filter, and add

Glycerin, two fl. ounces.
Gum Arabic, two troyounces.
Sugar, twenty troyounces.
Dissolve, and add water to make twentyfour fl. ounces.

Maryland Coll. Ph.

### Turpentine Mixture.

R. Turpentine, two drachms. Yolk of egg, one.

Rub together, and add

Extract of rhubarb,

Sal prunelle, each, one drachm.

Then add gradually

Infusion of liquorice, ten fl. ozs. Syrup of marsh mallow,

one fl. ounce.

Mix. A tablespoonful every hour, in gon-

Mix. A tablespoonful every hour, in gonorrhea. Bories.

R. Turpentine, one ounce.

Mint water, four fl. ounces.

Gum Arabic, sufficient.

Simple syrup, one ounce.

Extract of belladonna, one grain.

Mix, and make emulsion. Used in gonorrhea after the reduction of the inflammatory stage; when it acts too powerfully on the bowels, it must be intermitted for a few days. Ebriart.

### TESTA PRÆPARATA.

PREPARED OYSTER-SHELL. (See page 183.)

#### TILIA EUROPÆA.

### LINDEN.

The linden is a handsome tree, a native of the north of Europe, and much cultivated in the United States for ornament and shade.

Sex. Syst. Polyand. monog. Nat. Syst. Tiliaceæ.

Linn. Sp. Pl. 733. Lindley, Flor. Med.

147.

The part used is the flowers, which, when dried, have a faint but agreeable odor, and a sweetish, mucilaginous taste. They are antispasmodic and diaphoretic, and are much used in Europe. It is probable that the flowers of our native species have the same properties.

#### Water of Linden Flowers.

R. Linden flowers, one part.

Distil with sufficient

Water. ten parts. On adding to this product one-fiftieth of its weight of alcohol, and distilling afterwards one part, the concentrated lindenflower water is obtained, which keeps better. Ph. Germ.

### Infusion of Linden Flowers.

R. Linden flowers, two drachms. Boiling water, two pints. Infuse for half an hour, and strain. A mild antispasmodic. Paris Codex.

### Compound Infusion of Linden Flowers.

R. Linden flowers, each, two Chamomile flowers, drachms. Orange leaves, Boiling water, two pints. Infuse for half an hour, strain, and add

two fl. ounces. A small cupful, occasionally, as an antispasmodic.

# TORMENTILLA.

TORMENTIL.

The root of Potentilla tormentilla, a small, perennial plant, with a large, woody, dark-brown root, a native of many parts of Europe, growing in barren spots.

Sex. Syst. Icosand. polygyn. Nat. Syst.

Rosaceæ.

Sibthorp, Fl. Ox. 162. Griffith, Med. Bot.

The root, when dried, is in irregular pieces, which are knotty, tuberculated, and of a dark, reddish-brown color. Its odor is slightly aromatic, and its taste very astringent. It is a simple and somewhat active astringent. Dose, thirty grains to a drachm.

### Compound Powder of Tormentil.

R. Powdered tormentil, gum Arabic, each, three ounces. Alcohol,

Armenian bole, six ounces. Powdered cinnamon, four ounces. long pepper,

half an ounce.

Mix.

Geneva Ph.

### Extract of Tormentil.

R. Tormentil, one part. Water, eight parts. Boil, and strain; repeat with same quantity of water, mix the two decoctions, strain, and evaporate to the proper consistence.

Dose, from twenty to thirty grains.

Amst. Ph.

#### Decoction of Tormentil.

R. Tormentil, bruised, two ounces. Distilled water,

one pint and a half.

Boil down to a pint, and strain.

Lond. Ph. 1836.

Dose, one to two fl. ounces, three or four times a day.

### Gargle of Tormentil.

R. Tormentil, one ounce. twelve fl. ounces. Water, Boil down one-third, strain, and add Alum, one drachm. Honey, one ounce. Radius.

### TOXICODENDRON.

#### Poison Oak.

The leaves of Rhus toxicodendron, a shrubby plant, a native of the United States, are the parts used. This plant sometimes becomes a vine, whence it has received the name of Rhus radicans, or Poison vine. Both varieties grow in woods, along fence rows, etc., and are extremely poisonous to some persons, whilst other individuals are not affected by them; the acrid poisonous principle producing these effects is a volatile acid, named toxicodendric acid.

Sex. Syst. Pentand. trigyn. Nat. Syst.

Anacardiaceæ.

Linn. Sp. Pl. 381. Griffith, Med. Bot. 184. The leaves are inodorous, and of a disagreeable, acrid taste. They are narcotic and stimulant, acting like the acro-uarcotic poisons in large doses. They have been used with success in obstinate cutaneous affections, chronic rheumatism, etc. The dose is half a grain, gradually increased.

#### Extract of Poison Oak.

R. Leaves of poison oak, one part. four parts. Infuse, strain, distil off the spirit, and evaporate to proper consistence.

Paris Codex.

Dose, one grain, gradually increased till some effect is induced.

#### Pills of Poison Oak.

R. Extract of poison oak,

· Camphor, each, fifteen grains. Extract of arnica,

valerian,

each, thirty grains. Powdered calamus, sufficient. Beat into mass, and make thirty pills. One, three times a day, in hemiplegia.

#### Tincture of Poison Oak.

R. Fresh leaves of

five parts. poison oak, Alcohol, six parts.

Bruise the leaves in a stone mortar, macerate with the spirit for eight days, express, and filter. Dose, five to fifteen grains.

Ph. Germ.

# TRAGACANTHA.

#### TRAGACANTH.

A gummy exudation from Astragalus verus, and other species of Astragalus. All of them are small shrubs, with thorny petioles, found in the countries bordering on the Levant, in Persia, etc.

Sex. Syst. Diadelph. decand. Nat. Syst.

Fabaceæ.

Lindley, Flor. Med. 247. Griffith, Med.

Tragacanth is in contorted, vermicular pieces, rounded or flattened, of a whitish or whitish-yellow color; semi-translucent and corneous; tough, except when quite dry. It is inodorous, and of a bland, mucilaginous taste. It swells up and forms a paste or mixture with water, but does not dissolve. It is demulcent and nutritive.

#### Compound Tragacanth Powder.

R. Powdered tragacanth, ) each, one gum Arabic, ounce.

starch, Sugar, powdered, three ounces.

Brit. Ph. Mix well. Demulcent. Dose, from thirty grains to a drachm.

#### Mucilage of Tragacanth.

R. Tragacanth, one troyounce. Boiling water, one pint.

Macerate for twenty-four hours, occasionally stirring, triturate till uniform, and strain forcibly through linen.

Brit. Ph. directs sixty grains of traga-canth to ten ounces of distilled water; Paris Codex, one part of the gum to nine parts of cold water.

Principally used as a basis for more ac-

tive medicines.

#### Paste of Tragacanth.

R. Tragacanth, thirty-two parts. Macerate in

Water. one thousand parts. Also, dissolve

Isinglass, forty-eight parts, in

Water, eight hundred parts. Strain through a linen cloth, and mix with the macerated gum; then add

one thousand parts. Syrup, Evaporate by a gentle fire to the consistence of a soft paste, and gradually add

Orange-flower water,

sixty-four parts.

Evaporate to proper consistence on a waterbath. As an expectorant.

R. White tragacanth,

sixty-four parts. Isinglass, ninety-six parts. three thousand parts. Water, Simple syrup, two thousand parts. Orange-flower water, one hundred and twenty-eight parts.

Bruise the tragacanth, place it in a vessel for two days with five-sixths of the water, dissolve the isinglass in the rest of the water, and strain both solutions; heat the syrup to boiling, and mix the whole, and continue heat till the mixture is of the consistence of soft paste, stirring well. Remove from fire, add orange-flower water. and evaporate on water-bath till sufficiently firm; pour on marble slab, and divide into lozenges. Mouchon.

# TRIOSTEUM.

#### FEVER-ROOT.

Linn. Sp. Pl. 395. Griffith, Med. Bot. 352. Fever-root or fever-wort is found in most parts of the United States. The root is of a yellowish or brownish color externally, and it has a nauseous odor and a bitter taste. It is a mild cathartic, in doses of ten to fifteen grains.

#### Extract of Fever-Root.

R. Powdered fever-root, one pound. four pints. Diluted alcohol,

Moisten the powder with half a pint of the diluted alcohol, macerate for twenty-four hours, transfer to a percolator, and add gradually the remainder of the alcohol. Add water until the tincture passes tasteless. Then distil off the alcohol, and evaporate to the consistence of an extract.

Thomas.

Dose, five to eight grains.

#### TRITICUM REPENS.

Couchgrass .- Dog's Grass.

This plant is found in Europe and in this country. The rhizome, which is the officinal part, is long, of the thickness of straw, and has a sweet taste. It is collected in the

spring.
Sex. Syst. Triand. Digyn. Nat. Syst.

Graminaceæ.

It is employed as a diuretic and mild aperient. Dose in decoction, one to two drachms.

# Extract of Couchgrass.

R. Couchgrass root, one part. Digest with six parts of hot water, strain, and evaporate to a syrup. Dissolve this in four times its weight of cold water, filter, and evaporate to a soft extract. Dose, half an ounce or more daily.

Ph. Germ.

# Liquid Extract of Couchgrass.

R. Extract of couchgrass,

three parts. Distilled water, one part. Dissolve. Pruss. Ph. 1846. | Make syrup.

# TUSSILAGO.

#### COLTSFOOT.

Coltsfoot is a small, perennial plant, with large, radical, cordate leaves, and flowers on simple, leafless scapes. It is the Tus-silago farfara, and is a native both of Europe and North America.

Sex. Syst. Syngen. super. Nat. Syst. As-

teraceæ.

Linn. Sp. Pl. 1214. Griffith, Med. Bot.

The whole herb is used, but the leaves and flowers should be preferred. The latter have an agreeable smell; the former are inodorous, but have a rough, bitterish, mucilaginous taste. Both are demulcent, and have been much used in pectoral affections.

#### Decoction of Coltsfoot.

R. Flowers of coltsfoot, one ounce. Water, two pints.

Boil down to a pint, and strain. Beasley. Dose, a wineglassful.

#### Compound Decoction of Coltsfoot.

R. Flowers of coltsfoot, six ounces.

Figs, Raisins, > each, two ounces. Jujubes, ) Water, twelve pints.

Boil down one-third, adding

Liquorice root, two ounces. Strain. As a demulcent drink. Taddei.

# Syrup of Coltsfoot.

R. Flowers of coltsfoot, one ounce. Boiling water, ten ounces. Macerate for six hours, express, strain, and

nineteen ounces. Sugar, Paris Codex.

# U.

# ULMUS CAMPESTRIS. ELM BARK.

This is a large tree, a native of Europe, having strong, spreading branches, and a rough, cracked bark.

Sex. Syst. Pentand. digyn. Nat. Syst.

Ulmaceæ.

Linn. Sp. Pl. 327. Lindley, Flor. Med.

The part used is the inner bark; this is thin, tough, of a brownish-yellow color, inodorous, of a mucilaginous, slightly astringent taste. It is demulcent, and somewhat astringent, and also acts as an alterative.

#### Decoction of Elm Bark.

R. Elm bark, cut in small pieces, two ounces and a half.

Distilled water, twenty ounces. Boil for ten minutes, and strain. Brit. Ph. From four to six fl. ounces, two or three times a day, in cutaneous affections.

# Compound Infusion of Elm Bark.

R. Elm bark, Burdock root, each, two Dock root, drachms. Bittersweet, Fumitory, Boiling water, one pint.

Infuse for four hours, strain, and add Syrup of sarsaparilla,

one fl. ounce.

To be taken in twenty-four hours, in divided doses, in chronic cutaneous diseases. Cadet.

#### Compound Decoction of Elm Bark.

R. Elm bark, two and a half ounces. Liquorice root, each, Sassafras, one drachm. Guaiacum chips, Mezereon, twenty grains. Water, sufficient to obtain twenty fl. ounces. Jeffrey.

# ULMUS FULVA.

#### SLIPPERY ELM.

A very lofty tree, found in the United States, especially west of the mountains, growing in dry, elevated situations.

Sex. Syst. Pentand. digyn. Nat. Syst. Ul-

Mich. N. Am. Sylv. iii. 89.

The inner bark is the part used. This is in long, flat strips, of a tawny color on the outer surface, and reddish on the inner, of a peculiar, though feeble odor, and a mucilaginous taste. It is a good demulcent, and is much used in diseases of the mucous membranes. It is also very nutritious.

#### Mucilage of Slippery Elm Bark.

R. Slippery elm bark, sliced,

one troyounce.

Boiling water, one pint, Macerate for two hours, and strain.

U. S. Ph. To be used freely as a demulcent.

#### Cataplasm of Slippery Elm Bark.

R. Ground slippery elm bark, at will. sufficient. Hot water, Make a cataplasm. A soothing application to irritable ulcers, etc.

#### UVA URSI.

#### UVA URSI.—BEARBERRY.

Uva Ursi is the leaves of Arctostaphylos uva ursi, a small, evergreen shrub, inhabiting the northern parts of both continents, and the high mountains in more southern latitudes.

Sex. Syst. Decand. monog. Nat. Syst. Eri-

caceæ.

Sprengel, ii. 287. Griffith, Med. Bot. 425. The leaves, when dried, have a somewhat hay-like smell; their taste is astringent and bitterish. They are astringent and tonic, with some special action on the urinary organs. They are much used in diseases of the genito-urinary organs. Dose, in pow-der, from a scruple to a drachm, three or four times a day.

# Compound Powder of Uva Ursi.

R. Powdered uva ursi,

Peruvian bark,

each, two drachms.

opium, three grains.

Mix, and divide into six powders. One, twice a day, with lime water, in nephritic complaints, and as an antilithic. Ferriar.

R. Powdered uva ursi,

one drachm and a half.

Bicarbonate of sodium,

one drachm.

Mix, and divide into twelve powders. One, thrice a day, in diseases of the kidney and bladder.

R. Powdered uva ursi, half an ounce.

gum Arabic,

two drachms.

jalap, one drachm.

half an ounce. sugar, Oil of orange-peel, six drops.

Mix. Dose, one drachm, in nephritic colic. Quarin.

#### Decoction of Uva Ursi.

R. Uva Ursi, one troyounce. Water, sufficient.

Boil for fifteen minutes so as to obtain one U. S. Ph. pint, and strain.

Brit. Ph. directs an infusion of uva ursi made with half an ounce of uva ursi and ten ounces of boiling water.

Dose, from one to two fl. ounces, three or four times a day.

#### Extract of Uva Ursi.

R. Uva ursi, two pounds and a half. Boiling water, two gallons. Macerate for twenty-four hours, boil down

Lond. Ph. to a proper consistence. Dose, five to thirty grains.

# Mixture of Uva Ursi.

R. Uva ursi, one ounce and a half. one ounce. Milfoil, three pints. Water,

Boil down to two pints, and add, at close, one ounce. Liquorice,

Strain, and add

Syrup of cinnamon, two ounces. To be taken in divided doses, in passive hemorrhages of lungs and bladder.

Radius.

Syrup of Uva Ursi.

R. Uva ursi. eight ounces. two pints. Boiling water, Infuse the finely-bruised leaves in the water | Dose, a teaspoonful.

to a gallon, strain while hot, and evaporate | for three hours, put in a displacement filter. and add water sufficient to obtain two pints of infusion. Evaporate to one pint, and add two pounds (av.) of sugar, and make W. Procter.

#### Fluid Extract of Uva Ursi.

R. Uva ursi, in powder,

sixteen troyounces. No. 50, three fl. ounces. Glycerin, Water, five fl. ounces. Alcohol, eight fl. ounces.

Moisten the powder with half a pint of the mixed liquids, pack in a glass percolator, add the remaining mixture, and macerate for four days; then, with diluted alcohol, displace twenty-four fl. ounces, reserving the first fourteen, add to the remainder one fl. ounce of glycerin, evaporate to two fl. ounces, and mix with reserved portion.

U. S. Ph.

# VALERIANA.

#### VALERIAN.

Several species of Valerian are used in medicine, but the only one officinal is the Valeriana officinalis, a handsome, perennial, herbaceous plant, with white or rose-colored flowers, in terminal corymbs.

Sex. Syst. Triand. monog. Nat. Syst. Va-

Linn. Sp. Pl. 45. Griffith, Med. Bot. 384. The part used is the root; this consists of many long, slender fibres, arising from a tuberculated rhizome; the color is yellowish or brownish; the odor is strong and peculiar, and the taste is bitter and aromatic. It is an active antispasmodic, and is much used in nervous diseases. The dose is from half a drachm to a drachm, two or three times a day.

#### Compound Powder of Valerian.

R. Powdered valerian, one drachm. orange leaves,

one scruple. Chloride of ammonium, two grains. Oil of cajeput, four drops.

Mix. A tablespoonful four times a day, in hot tea. In epilepsy.

R. Powdered valerian, one ounce. Oxide of zinc, one scruple. Musk, ten grains.

Mix. As an antispasmodic, in teaspoonful

R. Powdered valerian, one scruple. Aromatic powder, ten grains. Mix. To be taken three or four times a day. In hysteria, hemicrania, chlorosis, etc. A. T. Thomson.

#### Bolus of Valerian and Iron.

R. Powdered valerian, one drachm. Carbonate of iron, ten grains. Mucilage of gum Arabic, sufficient. Mix, and make bolus. One, three times a day, as antispasmodic. Ellis.

### Bolus of Valerian and Sulphate of Potassium.

R. Powdered valerian,

two drachms and a half.

Sulphate of potassium,

eighteen grains.

Syrup of orange-peel, sufficient. Niemann. Mix, and make eighteen boluses.

Swediaur.

#### Compound Pills of Valerian.

R. Powdered valerian, half a drachm. Castor,

Oxide of zinc, each, one scruple.

Mix, and make eighteen pills. Three, thrice a day.

Dupuytren.

#### Electuary of Valerian.

R. Powdered valerian,

" orange leaves,
each, six drachms.
Syrup of wormwood, sufficient.
Mix. Two or three teaspoonfuls a day.

R. Powdered valerian, two ounces.

"Peruvian bark,
half an ounce.

Carbonate of ammonium,

Ginger syrup, sufficient.

Mix. Dose, a drachm every hour or two, in periodic hemicrania. Donald Monro.

#### Distilled Water of Valerian.

R. Valerian, bruised, one part.

Distil with sufficient water, until ten parts have been obtained.

Ph. Germ.

#### Infusion of Valerian.

R. Valerian, bruised,

Boiling water,

half a troyounce. one pint.

Macerate for two hours in a covered vessel, and strain. U. S. Ph.

This may also be prepared by displacing the valerian in powder No. 40 with water. The infusion of *Brit. Ph.* represents twelve grains of valerian in each fl. ounce. *Paris Codex* directs one part of valerian to one hundred parts of boiling water. Dose, two fl. ounces, three or four times a day.

## Compound Infusion of Valerian.

R. Valerian, one ounce and a half. Decoction of Peruvian bark,

two pints.

Make an infusion, strain, and add

Syrup of chamomile,

one fl. ounce and a half.

Camphor, twenty grains.

Mix. One to two fl. ounces, three times a day.

Saunders.

#### Tincture of Valerian.

R. Valerian, in powder,
No. 50, four troyounces.
Diluted alcohol, sufficient.

Obtain by displacement two pints.

Tincture of valerian of Brit. Ph. is of very nearly the same strength; that of Paris Codex is made by displacing five parts of tincture from one part of valerian with 60 per cent. alcohol; that of Ph. Germ. corresponds with the latter.

Dose, from one to four fl. drachms.

#### Ethereal Tincture of Valerian.

R. Coarsely-powdered
valerian, one part.
Spirit of ether, five parts.

Macerate for eight days, and filter. Dose, thirty to sixty drops.

Ph. Germ.

#### Ammoniated Tincture of Valerian.

R. Valerian, in powder,
No. 50, four troyounces.
Aromatic spirit of ammonia,
two pints.

Macerate for fourteen days, express, and filter. This may also be made by displacement.

U. S. Ph.

Dose, one to two fl. drachms, in milk, or some mucilaginous fluid.

# Ammoniated Tincture of Valerian and Castor.

R. Ammoniated tincture of valerian,
 Tincture of castor,
 each,
 two fl. drachms.
 Camphor water,
 six fl. ounces.

Mix. A tablespoonful, in muscæ volitantes.

Ware.

# Compound Ammoniated Tincture of Valerian.

R. Valerian, one ounce.
Cloves,
Mace, each, one drachm.
Lemon-peel,
one drachm and a half.
Aromatic spirit of ammonia,

twenty-four fl. ounces.

ree times a Macerate for a week, express, and filter. Saunders. Dose, a half to one fl. drachm. Van Mons.

# Compound Tincture of Valerian.

R. Valerian,

Castor, each, two ounces.
Saffron, one ounce.

Peppermint water,

Alcohol, each, twenty fl. ounces.

Macerate for a week, express, and filter.

Dose, a half to one fl. drachm. Wirt. Ph.

#### Wine of Valerian.

R. Valerian, three ounces.

Alcohol, 60 pr. ct., six ounces.

Macerate for twenty-four hours, and add

Good white wine,

one hundred ounces.

Macerate for ten days, express, and filter. A spoonful, as may be required.

Paris Codex.

# Syrup of Valerian.

R. Bruised valerian, ten ounces. Boiling water, sixty ounces.

Make an infusion with forty ounces of the water, express, and filter; treat the residue with the remainder of the water, express and filter enough to obtain with the first portion, forty-three ounces; to this add

Distilled valerian water,

Sugar, one hundred ounces.

Dissolve in a covered vessel, by means of a water-bath.

Paris Codex.

#### Mixture of Valerian and Ammonia.

R. Powdered valerian, one scruple. Carbonate of ammonium,

Cinnamon water, two fl. ounces.

Mix. As a draught, every fourth hour, in nervous headache, etc.

Ellis.

# Mixture of Valerian and Hoffmann's Anodyne.

R. Valerian, six drachms.
Boiling water, eight fl. ounces.
Make an infusion, strain, and add

Cinnamon water, two fl. ounces.

Hoffmann's anodyne,

Syrup, two fl. drachms.

Syrup, one fl. ounce.

Mix. A spoonful, as required. Foy.

# Tincture of Valerian and Hoffmann's Anodyne.

R. Tincture of valerian, Hoffmann's anodyne,

each, one fl. ounce.

Mix. A teaspoonful, as may be required. Ellis.

R. Tincture of valerian,
Hoffmann's anodyne,
each, half a fl. drachm.
Tincture of hyoscyamus,
twenty minims.

Camphor water, ten fl. drachms.

Mix. In hysteria.

Ashwell.

#### Oil of Valerian.

R. Bruised valerian, at will.
Water, sufficient.
Distil, and separate the oil from the product. Dose, three to five drops.

# Mixture of Oil of Valerian and Ammonia.

R. Oil of valerian,
Aromatic spirit of
ammonia,
Water,
Sugar,
Mix. A tablespoonful every two or three
hours.
eight drops.
one fl. drachm.
four fl. ounces.
two drachms.

#### Extract of Valerian.

R. Valerian, in powder,

No. 60, twelve troyounces.
Alcohol, one pint.
Diluted alcohol, sufficient.

Obtain by displacement, using the alcohol and afterwards diluted alcohol, three pints of tincture, evaporate the first pint spontaneously to three fl. ounces, and the remaining two pints by means of a waterbath to a syrupy consistence; mix the two liquids, and evaporate at or below 120° to an extract.

U. S. Ph.

Ph. Germ. directs to exhaust with diluted alcohol, and Paris Codex with 60 pr. ct. alcohol.

#### Fluid Extract of Valerian.

R. Valerian, in powder,

No. 60, sixteen troyounces.
Stronger alcohol, sufficient.
Moisten the powder with five fl. ounces of the alcohol, pack firmly in a percolator, add eleven fl. ounces of stronger alcohol, and

macerate for four days; then displace twenty-four fl. ounces, reserving the first fourteen, evaporate the remainder to two fl. ounces, and mix with the reserved portion. Dose, thirty minims. U. S. Ph.

# VANILLA.

## VANILLA.

Under this name are included the seed pods of several species of Vanilla, but that most generally known is the V. aromatica, a climbing plant, a native of Mexico and South America.

Sex. Syst. Gynand. monand. Nat. Syst. Orchidaceæ.

Swartz, Occident, iii. 1518. Flore Medi-

cale, vi. 345.

The part used is the pod; this is long, slender, cylindrical, compressed, of a blackish-brown color, formed of two valves, and filled with a brown pulp, containing a great quantity of small, blackish, shining seeds. The odor is peculiar but pleasant, the taste aromatic, hot, and pungent. It is princi-pally used in this country for flavoring pur-poses, but is esteemed by European writers as an aromatic stimulant, increasing the power of the muscular system, and exciting the sexual feelings. It has been given in hysteria, rheumatism, impotence, etc. The dose is from eight to twelve grains.

# Vanilla Sugar.

R. Vanilla, one part. Sugar, nine parts. Triturate together until a uniform powder is obtained. Ph. Germ.

#### Vanilla Lozenges.

R. Vanilla, one ounce. Sugar, seven ounces. Gum tragacanth, half a drachm. half an ounce. Mix, and make lozenges of twelve grains.

#### Tincture of Vanilla.

R. Vanilla, one part. Alcohol, sp. gr. 0.892, five parts. Macerate for eight days, express, and filter. Ph. Germ. Dose, forty drops. The tincture of Paris Codex is one-half this strength.

#### Spirit of Vanilla.

R. Vanilla, one part. Alcohol, Water, each, twelve parts.

## Vanilla Arrowroot.

R. Milk, fifteen ounces. Sugar, Vanilla sugar, > each, one ounce. Arrowroot, Mix, and boil, constantly stirring. Béral.

#### Vanilla Milk.

R. Milk, sixteen ounces. Vanilla sugar, half an ounce. Dissolve, and strain. Béral.

#### Essence of Vanilla.

R. Vanilla, nine ounces. Spirit of abelmoschus (ambrette), two pints. Cloves, thirty grains. Musk, seven grains.

Used as a perfume, and for flavoring. Cooley.

#### Fluid Extract of Vanilla.

R. Vanilla, one ounce. Sugar, three ounces. Syrup, Water, each, half a pint. Deodorized alcohol, one fl. ounce.

Cut the vanilla in thin, transverse slices, triturate it with the sugar, till reduced to a moderately-fine powder, add the syrup with two ounces of the water, put the mixture into a strong pint-bottle, cork, and tie it over; place it in a vessel of water, which is then to be heated to the boiling point, and kept there for half an hour; remove the cork, and strain. The residue is then to be mixed with the remainder of the water and the alcohol, the mixture returned to the bottle, and heated as before, strained, and mixed with the first product. W. Procter.

#### VERATRIA.

#### VERATRIA.

R. Cevadilla, in powder, No. 50, twenty-four troyounces. Alcohol, three gallons. Sulphuric acid, Water of ammonia, each. Purified animal charsufficient. coal, Magnesia,

Digest the cevadilla in a gallon of the alcohol, in a retort with a receiver attached, for four hours, and pour off the liquor. To Mix, and distil twelve parts. Soubeiran. the residue, add another gallon of alcohol,

together with the distilled pertion, digest for an hour, and pour off the liquor; repeat a third time. Express, mix, and strain the liquors, and distil off the alcohol on a waterbath. Boil the residue three or four times in water acidulated with sulphuric acid, mix and strain the liquors, and evaporate to the consistence of syrup. Add magnesia in slight excess, shake frequently, express, and wash residue. Repeat expression and washing two or three times. Dry the residue, digest it with gentle heat several times in alcohol, straining after each digestion. Distil off alcohol from the mixed liquors, boil the residue for fifteen minutes in water, with a little sulphuric acid and purified animal charcoal, and strain. Thoroughly wash the residue, mix the washings with the strained liquor, evaporate gently to consistence of syrup, add as much solution of ammonia as will precipitate the veratria, separate this, and dry it.

Veratria is a violent and active poison.

Veratria is a violent and active poison. It is given internally in minute doses, but is more generally used externally, in gout, rheumatism, nervous affections, etc. The dose is from one-twelfth to one-sixth of a

grain.

#### Pills of Veratria.

R. Veratria, half a grain.
Syrup of gum,
Powdered gum Arabic, each,
sufficient.

Mix, and make six pills. Dose, one, to be increased to three.

Magendie.

#### Pills of Veratria and Henbane.

R. Veratria, one grain.
Extract of henbane,
Powdered liquorice, each,
twelve grains.

Mix, and make twelve pills. One, thrice a day. Turnbull.

#### Tincture of Veratria.

R. Veratria, four grains.
Alcohol, one fl. ounce.

Dissolve. Dose, from ten to twenty drops in a wineglassful of water, in dropsy, gout, rheumatism, etc. Magendie.

#### Lotion of Veratria.

R. Veratria,
one scruple to one drachm.
Alcohol, two fl. ounces.
Mix. As an embrocation; to be used with

caution.

Glycerite of Veratria.

R. Veratria, twenty grains.
Alcohol, six fl. drachms.
Glycerin, two fl. drachms.
Dissolve, and mix.

Waring.

#### Liniment of Veratria.

R. Veratria, eight grains.
Alcohol,
Soap liniment, each,

four fl. drachms.

Mix well.

Brande.

# Compound Veratria Liniment.

R. Veratria, five grains.
Tincture of aconite root,
four fl. drachms.
Chloroform, ninety minims.
Camphorated soap liniment,
twelve fl. drachms.

Mix. Used under the name of Buckler's neuralgia liniment. Maryland Coll. Ph.

#### Ointment of Veratria.

R. Veratria, twenty grains.
Lard, one troyounce.
Rub the veratria with the lard gradually added, and mix thoroughly.

U. S. Ph.

R. Veratria, eight grains.
Prepared lard, one ounce.
Olive oil, half a fl. drachm.
Rub the veratria and oil together, then mix thoroughly with the lard. Brit. Ph.

A piece about the size of a hazelnut to be rubbed for five or fifteen minutes over the seat of the disease, in rheumatism, etc.

R. Veratria, one scruple.
Rub with
Olive oil, one drachm.

Spermaceti ointment,

seven drachms.

Mix. As the last.

Add

Turnbull.

Turnbull.

# Ointment of Veratria and Opium.

R. Veratria, half a drachm.
Powdered opium, one drachm.
Lard, one ounce and a half.

Mix. As a friction, in rheumatism.

Dunglison.

# Ointment of Veratria and Morphia.

R. Veratria,

Sulphate of morphia,

each, ten grains. Lard, one ounce.

Mix. To be rubbed into the perineum thrice daily, in incontinence of urine of Kennard. adults.

#### Ointment of Veratria and Iodine.

R. Veratria, one scruple. Iodide of potassium,

half a drachm. one ounce. Jourdan. Mix.

# VERATRIÆ MURIAS.

MURIATE OF VERATRIA.

R. Veratria, at will. Muriatic acid, sufficient to saturate; filter, evaporate, and crystal-Giordano.

# VERATRIÆ NITRAS.

NITRATE OF VERATRIA.

# VERATRIÆ SULPHAS.

SULPHATE OF VERATRIA.

Are made in the same manner, using the appropriate acids. Dose of each, about oneeighth of a grain.

#### Solution of Sulphate of Veratria.

R. Sulphate of veratria, one grain. Distilled water, two fl. ounces. Dissolve. Dose, one to two fl. drachms, in

a mixture, as a substitute for the wine of colchicum or the Eau médicinale.

Cadet.

# VERATRUM ALBUM.

#### WHITE HELLEBORE.

A perennial, herbaceous plant, with a fleshy, fusiform rhizome, having numerous fibres. It is a native of the mountainous parts of Europe.

Sex. Syst. Polygam. monœc. Nat. Syst.

Melanthaceæ. Linn. Sp. Pl. 1479. Griffith, Med. Bot. 643. The rhizome, which is the officinal part, is in cylindrical, somewhat conical pieces, with numerous radicles; these are corrugated, and of a blackish-brown color. Their same cases.

odor is slight, and their taste at first sweet-ish, and then bitter and acrid. White hellebore is an active irritant, causing violent vomiting and purging. Externally, it acts like the other powerful acrids. Internally, in small doses, it has been used in many diseases; but it is now principally employed externally in the treatment of cutaneous affections, etc. Dose, from a grain to two grains, gradually increased.

#### Powder of White Hellebore.

R. Powdered white hellebore,

three grains.

starch, one scruple. Mix. As an errhine in amaurosis and lethargic affections. Radius.

### Cephalic Snuff. (Schneeberger.)

R. White hellebore, one ounce. Orris root,

Bayberry bark,

half an ounce. each, Starch, six ounces.

Oil of cloves, ten drops. Mix the fine powders thoroughly.

Maryland Coll. Ph.

# Decoction of White Hellebore.

R. White hellebore, ten drachms. Distilled water, two pints.

Boil down to a pint, and add

Rectified spirit, three fl. ounces, and strain. Lond. Ph. 1836. As a wash, in cutaneous diseases.

#### Wine of White Hellebore.

R. Bruised white hellebore,

four ounces.

Wine. one pint. Macerate for fourteen days, express, and

U. S. Ph. 1850. filter. Dose, ten minims, gradually increased, two or three times a day, in gout and rheu-

matism.

#### Tincture of White Hellebore.

R. Bruised white hellebore,

four ounces.

Alcohol (80 per ct.),

twenty ounces.

Macerate for ten days, express, and filter.

Paris Codex.

Dose, the same as of the wine, and in

#### Ointment of White Hellebore.

R. Powdered white hellebore,

two ounces. eight ounces. Oil of lemon, twenty minims. U. S. Ph. 1850.

As a friction in itch, etc. To be used with caution on children.

#### Compound Ointment of White Hellebore.

R. Powdered white hellebore,

two ounces. nitre, one drachm. Soft soap, Sulphur, each, six ounces.

Lard, one pound and a half. Mix. As a friction in itch. Phæbus.

# VERATRUM VIRIDE.

# AMERICAN OR GREEN HELLEBORE.

A tall, perennial plant, with a thick, fleshy rhizome, having a tunicated top, and numerous fibrous radicles. It is a native of the United States, growing in damp meadows and wet situations.

Sex. Syst. Polygam. monœc. Nat. Syst.

Melanthaceæ.

Aiton, Hort. Kev. iii. 422. Griffith, Med.

Bot. 643.

The root, in a fresh state, has an unpleasant odor, which disappears on drying. Its taste is bitter and acrid. Its properties are similar to those of the white hellebore, but it does not purge, and rapidly reduces the frequency and force of the pulse. Dose, one grain, gradually increasing.

#### Tincture of American Hellebore.

R. Green hellebore, in coarse

powder, four ounces. Rectified spirit, sufficient.

Obtain by maceration and displacement one pint (twenty fl. ounces). Dose, five to twenty minims.

The tincture of Ph. Germ. is of nearly

the same strength.

R. American hellebore, in powder, No. 50, sixteen

troyounces. sufficient.

Alcohol, Obtain by percolation two pints. U.S. Ph.

Dose, for an adult, eight drops, every three hours. Each dose to be increased one or two drops, until nausea, vomiting, or a reduction of the frequency of the pulse takes place; then to be reduced to onehalf in all cases.

#### Wine of American Hellebore.

R. American hellebore,

bruised, six ounces. White wine, fourteen fl. ounces. Diluted alcohol, two ounces.

Macerate for fourteen days, express, and filter. Dose, as of tincture.

The recent root should be used in the two preparations of Dr. Osgood.

#### Fluid Extract of American Hellebore.

R. American hellebore.

in powder, No. 60, sixteen trovounces.

Stronger alcohol, sufficient. Moisten the powder with five fl. ounces of the alcohol, pack firmly in a percolator, add eleven fl. ounces of stronger alcohol, and macerate for four days; then displace twenty-four fl. ounces, reserving the first fourteen, evaporate the remainder to two fl. ounces, and mix with reserved portion.

U. S. Ph.

Dose, two to five drops.

#### Extract of American Hellebore.

R. Fresh root of American

at will. hellebore, Bruise well, express the juice, and evaporate to proper consistence, by a gentle heat, or by exposure to the sun. Dose, from a fourth to half a grain. Osgood.

#### Ointment of American Hellebore.

R. Powdered extract of

A merican hellebore, one drachm. Simple cerate, one ounce. Oil of lemon, three minims. Osgood. Mix.

#### Pills of American Hellebore.

R. Extract of American

ten grains. hellebore, Opium, five grains. fifteen grains. Soap, Mucilage of gum

Arabic, sufficient.

Mix, and make thirty pills. One, every three or four hours, in rheumatism, etc. Osgood.

R. Extract of American

twelve grains. hellebore, six grains. Calomel,

Mix, and make six pills, one every two or three hours, carefully watching its effects, Norwood. in pericarditis. Waring-Curran.

#### Mixture of American Hellebore.

R. Tincture of American

hellebore, one part.

bloodroot, Camphorated tincture

of opium, each, two parts.

Mix. Dose, thirty to sixty minims, in catarrh. Osgood.

# VIOLA.

# VIOLET.

Two species of violet, viz., V. pedata and V. odorata, are sometimes used in medicine. The former is indigenous to this country, and is officinal in the U.S. Ph. The latter is a small, perennial plant, with fragrant, blue flowers, a native of Europe, but generally cultivated in our gardens.

Sex. Syst. Pentand. monog. Nat. Syst.

Violaceæ.

Linn. Sp. Pl. 1324. Griffith, Med. Bot.

The flowers of both species are of a blue color, almost inodorous when dried, and of a slightly bitter taste. They are principally used as a demulcent, and as a laxative for infants. The rhizome contains an alkaloid similar in its properties to emetia.

#### Conserve of Violets.

R. Violet flowers, fresh, one part. Sugar, three parts. Rub together. Soubeiran.

### Syrup of Violets.

R. Fresh violet petals,

one hundred parts.

Wash with lukewarm water; then infuse for twelve hours in a tin vessel with

Boiling water, sufficient to obtain 212 parts of clear infusion, in which dissolve 400 parts of sugar.

Paris Codex.

A gentle laxative for infants, in doses of one to two fl. drachms.

#### Honey of Violets.

R. Expressed juice of violets, Honey, equal parts.

Evaporate to a proper consistence.

Soubeiran.

# Oil of Violets.

R. Fresh violet flowers, fifteen ounces. Almond oil, five pounds. Infuse, with three equal quantities of the flowers, and strain. Used as an article of perfumery. Taddei.

R. Powdered orris root, at will.

Exhaust with ether, distil to about onefourth, mix with almond oil, and evaporate the ether spontaneously. Dorvault.

# WINTERA.

# WINTER'S BARK.

This is derived from an evergreen tree, found in the southern parts of South America, the Drimys Winteri, and also from other species, growing in Peru, etc.
Sex. Syst. Polyand. tetragyn. Nat. Syst.

Magnoliaceæ.

Forster, Gen. 84. Griffith, Med. Bot. 100. The bark is in quilled pieces of some length; of a pale, yellowish, or dull, reddish gray, with darker spots externally, and

of a dark cinnamon internally. It has an aromatic odor, and a warm, spicy taste. It is a stimulating aromatic tonic. The dose, in powder, is about half a drachm.

#### Tincture of Winter's Bark.

R. Bruised Winter's bark, one part. Diluted alcohol, eight parts. Digest with one-half of the alcohol, and repeat with the other. Unite the two tinctures, and filter.

# X.

# XANTHORRHIZA.

#### YELLOW-ROOT.

The root of Xanthorrhiza apiifolia, a plant indigenous to the United States, is occasionally employed in medicine.

Sex. Syst. Pentand. polyg. Nat. Syst. Ra-

nunculaceæ.

Willd. Sp. Pl. i. 1568. Griffith, Med. Bot.

96.

The root and bark of this little shrub are possessed of tonic properties, and may be used in cases where the pure bitters are indicated.

# Infusion of Yellow-Root.

R. Bruised yellow-root, one ounce.

Boiling water, one pint.

Macerate in a covered vessel for two hours, and strain. Dose, as a tonic, one fl. ounce.

#### Extract of Yellow-Root.

R. Coarsely-powdered yellow-root,

eight ounces.

Diluted alcohol, two pints.

Moisten the powder with six fl. ounces of diluted alcohol, and macerate twenty-four hours; then transfer to a percolator, and rheumatism.

add gradually the rest of the diluted alcohol. When this has passed, continue the percolation with water until the powder is exhausted. Distil off the alcohol, and evaporate to the consistence of an extract.

Thomas.

Dose, five grains.

# XANTHOXYLUM.

#### PRICKLY-ASH.

The bark of Xanthoxylum fraxineum, a shrub about ten feet high, growing in the Middle and Western States, is recognized in the U. S. Ph.

Sex. Syst. Dicec. pentand. Nat. Syst. Xan-

thoxylaceæ.

The bark is possessed of stimulant and irritant properties. It is more used in domestic than in regular practice.

# Decoction of Prickly-Ash.

R. Contused bark of prickly-ash,

one ounce. three pints.

Water,

Boil down to a quart.

One pint to be taken, in divided doses, during the twenty-four hours, in chronic rheumatism.

G. B. Wood.

Z.

# ZINCUM.

ZINC.

#### ZINCI ACETAS.

ACETATE OF ZINC.

R. Commercial oxide of

zinc, four troyounces.
Acetic acid, seventeen fl. ounces.
Distilled water, ten fl. ounces.

Digest the oxide in the mixed liquids for half an hour, heat to boiling, filter while hot, and crystallize. Acidulate mother liquor with acetic acid, evaporate to one-half, and again crystallize. Drain and dry the crystals.

U. S. Ph.

Used as an external application.

#### Collyrium of Acetate of Zinc.

R. Sulphate of zinc,
Acetate of lead, each, six grains.
Rose water, four fl. ounces.

Mix, and filter.

Ellis.

R. Acetate of zinc,

fifteen to thirty grains. Distilled water, twelve fl. ounces.

Dissolve.

Ware.

R. Sulphate of zinc, one drachm.
Acetate of lead, half a drachm.
Camphor, one scruple.
Rose water, twelve fl. ounces.

Mix, and filter the solution. Spielmann.

#### Injection of Acetate of Zinc.

eight grains. R. Acetate of zinc, four fl. ounces. Rose water, Dissolve. In gonorrhœa. Ellis.

# Injection of Acetate of Zinc and Lead.

R. Sulphate of zinc, six grains. Solution of subacetate of lead, thirty minims. four fl. ounces. Water,

Mix. By double decomposition acetate of zinc and some sulphate of lead are formed. A. Cooper.

#### Lotion of Acetate of Zinc.

R. Acetate of zinc, four scruples. Distilled vinegar,

sixteen fl. ounces.

Dissolve.

Béral.

#### Tincture of Acetate of Zinc.

R. Sulphate of zinc, Acetate of potassium, each, one part. Rub together, and add

Diluted alcohol, sixteen parts. Macerate for a week, stirring occasionally, Dub. Ph. 1826. As a collyrium and injection, properly

diluted.

#### ZINCI CARBONAS.

CARBONATE OF ZINC.

#### Precipitated Carbonate of Zinc.

R. Sulphate of zinc, Carbonate of sodium, twelve troyounces. Boiling water, one gallon. Dissolve the salts separately in four pints of water, and mix the solutions; wash the precipitated carbonate, first by decantation, and afterwards on a filter; then press, and U. S. Ph. dry it.

#### Cerate of Carbonate of Zinc.

R. Precipitated carbonate of two troyounces. Simple ointment, ten troyounces. U. S. Ph. Much used as a dressing to excoriations, shallow ulcerations, etc.

#### Plaster of Carbonate of Zinc.

R. Simple plaster, Powdered carbonate of zinc, each, two pounds. Yellow wax, five ounces. Suet, Turpentine, each,

one ounce and a half.

Melt, and mix thoroughly. Van Mons.

R. Carbonate of zinc, White lead, each,

> one ounce and a half. Yellow wax, four ounces. Olive oil, six ounces.

Melt the wax with the oil, and add the two powders, stirring well. To diminish a superabundant suppuration in ulcers.

Cadet.

#### ZINCI CHLORIDUM.

SOLUTION OF CHLORIDE OF ZINC.

R. Zinc, in small pieces,

six troyounces.

Nitric acid, Precipitated carbonate of zinc. each, two drachms and a half. Muriatic acid, sufficient.

Add the zinc and muriatic acid together, in a glass vessel, and dissolve; strain, add the nitric acid, and evaporate to dryness. Dissolve in five fl. ounces of distilled water, add the carbonate, let rest for twenty-four hours, filter, and add sufficient distilled water to make a pint.

The solution of Brit. Ph. is very nearly

of the same strength.

## CHLORIDE OF ZINC.

R. Evaporate a convenient quantity of solution of chloride of zinc to dryness, fuse, pour on a flat stone, and when it has congealed break the mass in pieces.

U. S. Ph.

Brit. Ph. requires the chloride of zinc to be moulded.

R. Solution of chloride of at will. barium, Solution of sulphate of sufficient zinc,

to precipitate sulphate of barium. Filter, and evaporate the fluid to obtain crystals of chloride of zinc.

Principally used externally, as a caustic and stimulant; also given internally, in very small doses, in the neuroses, etc. CHLORIDE OF ZINC. (Disinfectant.)

R. Granulated zinc, four pounds (av.). Muriatic acid,

four pounds, or sufficient. two gallons two pints. Water,

Add the acid gradually to the zinc, in a glass or porcelain vessel, till it is dissolved, taking care there is no excess of acid; strain through a coarse cloth, and add the water. This contains one part of the chloride in twelve, and is of the strength of a disin-E. Parrish. fectant.

### Ethereal Tincture of Chloride of Zinc.

R. Chloride of zinc, four drachms. one fl. ounce. Alcohol, Ether, two fl. ounces.

Mix. Five drops every four hours, in a little sugar and water, gradually increasing the dose, in chorea, epilepsy, etc.

Hufeland.

#### Lotion of Chloride of Zinc.

R. Chloride of zinc, eight grains. Aloes, two scruples. Distilled water, four fl. ounces. Mix. As an application to atonic and foul ulcers. Vogt.

# Injection of Chloride of Zinc.

R. Liquid chloride of zinc,

twenty-four drops. Water, four fl. ounces. Mix, and filter. A small quantity to be injected a short distance into the urethra, two or three times a day, in gleet.

Gaudriot.

Gaudriot.

#### Vaginal Suppository of Chloride of Zinc.

R. Liquid chloride of zinc, five drops. Sulphate of morphia, half a grain. Mix with three drachms of the following paste :-

Mucilage of tragacanth, six parts. White sugar, three parts. Starch, nine parts. Make a suppository. To be used every day, or every other day.

### Canquoin's Paste of Chloride of Zinc. No. 1.

R. Chloride of zinc. one part. Wheat flour, or sulphate of calcium, four parts. Water, sufficient to make a paste. Mix.

#### No. 2.

R. Chloride of zinc, one part. Wheat flour, three parts. Water, sufficient. Mix.

No. 3.

R. Chloride of zinc, one part. Wheat flour, two parts. Water, sufficient.

Mix.

The chloride and flour are to be carefully and quickly mixed; add the water to half the quantity, so as to form a soft paste, and mix with this the rest of the powder. Form into cakes of half a line to four lines in thickness. To remain on twenty-four hours or more (six to ten are often sufficient). To produce an eschar in cancer, lupus, etc.

Canquoin.

R. Chloride of zinc, one part. Chloride of antimony, half a part. two and a half parts. Flour, sufficient. Water,

To be mixed as above, so as to be moulded into any desired form. As a caustic, in nodulated cancerous tumors. Canquoin.

Powdered opium may be added to any of the above, to mitigate the pain.

#### ZINCI CYANIDUM.

#### CYANIDE OF ZINC.

R. Sulphate of zinc, one part. Distilled water, ten parts. Dissolve; add

Solution of pure cyanide sufficient of potassium,

to form precipitate, being added by drops. Filter, wash the precipitate, and dry

Paris Codex. Used in spasmodic affections, etc., in doses of a twelfth to a half of a grain.

#### Powder of Cyanide of Zinc.

two grains. R. Cyanide of zinc, Magnesia, twenty grains. Powdered cinnamon, nine grains.

Mix, and divide into six powders. One, every four hours, in nervous affections, etc. Guibourt.

These are Henning's antispasmodic powders.

#### Pills of Cyanide of Zinc.

R. Cyanide of zinc, fifteen grains. Extract of liquorice, two drachms. Mix, and make sixty pills. One, three times a day. Kopp.

#### ZINCI FERROCYANIDUM.

FERROCYANIDE OF ZINC.

R. Ferrocyanide of potassium, six parts. Sulphate of zinc, eight parts.

Dissolve separately in warm water, add the

solutions together; collect the precipitate, wash it well, and dry. Ph. Germ. Given in doses of one grain, twice or thrice a day, gradually increasing the quantities. tity, in nervous affections, nocturnal pains, etc.

# Powder of Ferrocyanide of Zinc.

R. Ferrocyanide of zinc, six grains. Magnesia, four grains. Powdered cinnamon, three grains. Mix. Every four hours, in nervous affections, cramp of the stomach, etc. Radius. The quantity of the salt of zinc is rather large, but it is thus ordered in various authors.

# Compound Pills of Ferrocyanide of

R. Ferrocyanide of zinc, fifteen grains. Powdered valerian, half a drachm. Extract of valerian, sufficient. Mix, and make sixty pills. Two, morning and evening, in chorea. Rosenstiel.

R. Ferrocyanide of zinc, ten grains. Magnesia, two scruples. Oil of valerian, twenty drops. Syrup of chamomile, five scruples. Powdered valerian, ten scruples. Mix, and make into three-grain pills. Six, three times a day, gradually increasing.

### Solution of Ferrocyanide of Zinc.

Vogt.

R. Ferrocyanide of zinc, four grains. Distilled water, two fl. ounces. Mix. Dose, a tablespoonful, four times a day, in chorea.

#### Mixture of Ferrocyanide of Zinc.

R. Ferrocyanide of eight to twenty grains. zinc, Powdered gum Arabic, two drachms. three fl. ounces. Cherry water, Wine of opium, one fl. scruple. Cherry-laurel water,

half a fl. ounce.

Mix. As a collyrium, in scrofulous and rheumatic ophthalmia. Ammon.

#### ZINCI IODIDUM.

IODIDE OF ZINC.

one hundred and R. Iodine, seventy parts. Powdered zinc, twenty parts. Heat in a matrass till the iodide sublimes. Magendie.

R. Iodine, two parts. Powdered zinc. one part. Digest in a little water, and agitate till the solution is colorless. Evaporate with a gentle heat. Beasley. Used externally.

### Ointment of Iodide of Zinc.

R. Iodide of zinc, one drachm. Lard, one ounce. Mix. As a friction to tumors, etc. Ure.

# Collyrium of Iodide of Zinc.

R. Iodide of zinc, four grains. Distilled water, six fl. ounces. Dissolve.

#### Solution of Iodide of Zinc.

R. Iodide of zinc, ten to thirty grains. Distilled water, one fl. ounce. Dissolve. To be applied, by means of a sponge tied to a quill, to enlarged tonsils; to be followed, after some days' perseverance, by a saturated solution applied by a camel's hair brush.

# Concentrated Solution of Iodide of

four drachms. R. Iodine, one drachm. Granulated zinc, fifteen drachms. Water, Radius. Digest until colorless, and filter. Dorvault. Syrup of Iodide of Zinc.

four drachms. R. Iodine. two drachms. Powdered zinc, four fl. ounces. Water, Agitate till colorless; then filter into

twelve fl. ounces. A. T. Thomson. Mix.

R. Iodine, twelve drachms two scruples.

Finely granulated zinc, one ounce. one pound (avoir.). Sugar, nine fl. ounces. Water,

Add the zinc and iodine to the water in an evaporating dish, and heat gently until the solution becomes colorless. Place the sugar in a wide-mouthed bottle, filter the hot solution into it, and add sufficient water to make a pint of syrup. Dissolve the sugar by a gentle heat.

Each fl. ounce contains one drachm of iodide of zinc. A. B. Taylor.

R. Concentrated solution of iodide of zinc, one part. Simple syrup, ninety-nine parts.

Deschamps.

# ZINCI LACTAS.

LACTATE OF ZINC.

R. Lactic acid, a convenient quantity. Neutralize with recently precipitated oxide or carbonate of zinc, and crystallize.

Paris Codex.

R. Sulphate of zinc, nine parts. Lactate of calcium. ten parts.

Mix, boil with some water, cool, filter, and crystallize. Dorvault.

This salt requires sixty parts of cold, and six of boiling water for solution. Recom-mended by Herpin in epilepsy. Dose, two grains, thrice daily, in the form of pill, and gradually increased to three grains.

#### ZINCI NITRAS.

NITRATE OF ZINC.

R. Granulated zinc, at will. Nitric acid, sufficient.

Dilute the acid with an equal bulk of water, dissolve the zinc, heat until a slight precipitate of oxynitrate is formed, dilute with its bulk of boiling water, cool, and filter; then evaporate at a gentle heat until it congeals on cooling; break into pieces, and drain.

Lefort.

Paste of Nitrate of Zinc.

R. Nitrate of zinc. ten parts. Water,

Wheaten flower, each, five parts. Dissolve the nitrate in the water, and gradually add the flour. Lefort.

Recommended by Clement and Desgrange as a serviceable caustic, remaining soft, without contracting or spreading at the

# ZINCI OXIDUM.

OXIDE OF ZINC.

R. Precipitated carbonate of zinc,

one pound.

Expose to a low red heat in a shallow vessel, so as to drive off the carbonic acid.

Tonic and antispasmodic, and given in nervous and spasmodic affections, in doses of two to ten grains and upwards, several times a day. Also used externally.

#### Powder of Oxide of Zinc.

R. Oxide of zinc, three grains. White sugar, five grains.

Mix. One powder every four hours. Useful in gastric or spasmodic cough.

A. T. Thomson.

#### Compound Powder of Oxide of Zinc.

R. Oxide of zinc, six grains. Extract of henbane, one grain. one drop. Oil of valerian, Powdered valerian, half a drachm. Mix, and divide into nine powders. One, thrice a day, in nervous disorders.

Radius.

R. Oxide of zinc, one drachm. Powdered opium, ten grains.

Peruvian bark,

fennel, each, one ounce.

Mix, and divide into fifty powders. One, every two hours, in hooping-cough.

Augustin.

## Powder of Oxide of Zinc and Colombo.

four grains. R. Oxide of zinc, Powdered colombo, thirty grains.

Mix, and divide into four powders. One every three hours, in dyspepsia.

#### Pills of Oxide of Zinc.

R. Oxide of zinc, two scruples.
Conserve of roses, sufficient.
Mix, and make ten pills. One, three or four times a day, in epilepsy, chorea, nervous headache, etc.

Ellis.

#### Compound Pills of Oxide of Zinc.

R. Oxide of zinc, five grains.
Extract of cascarilla, six grains.
Syrup of ginger, sufficient.
Mix, and make three pills; one to be taken three times a day, in epilepsy.

Ainslie.

R. Oxide of zinc, one scruple.
Powdered valerian, thirty grains.
Castor, four grains.
Syrup, sufficient.

Mix, and make twelve pills. To be taken during the day, in epilepsy, etc. Foy.

R. Oxide of zinc,

Extract of hyoscyamus, each, two scruples.

Mix, and make forty pills. Dose, two pills, increased to twenty or thirty during the day; in facial neuralgia.

Niemeyer.

#### Lotion with Oxide of Zinc.

R. Oxide of zinc, one ounce.

Elder-flower water,
one fl. ounce and a half.

Agitate together. In pustular erysipelas.

Agitate together. In pustular erysipelas.

Augustin.

#### Ointment of Oxide of Zinc.

R. Oxide of zinc, eighty grains. Ointment of benzoin,

four hundred grains.

Mix. U. S. Ph.
The proportions of oxide of zinc and benzoinated lard are 1:5 U. S. Ph., 2:11
Brit. Ph., 1:9 Paris Codex. The Ph.
Germ. directs one part of the oxide to nine parts of ointment of rose-water.

A mild, astringent application, in chronic ophthalmia, and in excoriation and ulcera-

tion.

### Ointment of Impure Oxide of Zinc. (Tutty Ointment.)

R. Prepared tutty, one drachm. five drachms. Rub together. Pereira.

# Ointment of Oxide of Zinc and Opium.

R. Oxide of zinc, half a drachm.
Fresh butter, one drachm.
Powdered opium, one grain.
Mix. In chronic ophthalmia. Hencke.

# Ointment of Oxide of Zinc and Calomel.

R. Oxide of zinc, half a drachm. Calomel,
Powdered aloes, each, one grain.
Fresh butter, two drachms.
Mix. In scrofulous ophthalmia. Scarpa.

## Cerate of Oxide of Zinc and Lycopodium.

R. Oxide of zinc,
Lycopodium, each, fifteen grains.
Simple cerate, half an ounce.
Mix. In ulceration of the breasts, tetter,
etc.

Hufeland.

# Dusting Powder of Oxide of Zinc.

R. Oxide of zinc,

Lycopodium, each, equal parts.

Mix. Used in erythema of infants, accompanied by moisture.

J. L. Smith.

R. Oxide of zinc, one part.
Powdered acacia, two parts.
Mix. Applied to sore and fissured nipples.
Waring.

#### ZINCI SULPHAS.

SULPHATE OF ZINC.

R. Zinc, in small pieces, four ounces.
Sulphuric acid, six ounces.
Distilled water, four pints.

Introduce the zinc and water into a glass vessel, and add the sulphuric acid by degrees; when all effervescence has ceased, filter, boil to a pellicle, and set aside to crystallize.

U. S. Ph.

It is astringent, tonic, and, in large doses, a prompt and effective emetic. Dose, as a tonic, one to two grains; as emetic, ten to thirty.

#### Pills of Sulphate of Zinc.

R. Sulphate of zinc, ten grains.
Conserve of roses, sufficient.
Mix, and make twenty pills. One, three times a day. In hooping-cough, etc.
Ellis.

## Pills of Sulphate of Zinc and Turpentine.

R. Sulphate of zinc, two drachms. Venice turpentine, sufficient. Mix, and make sixty pills. As a tonic.

Beasley.

# Pills of Sulphate of Zinc and Myrrh.

R. Sulphate of zinc, ten grains. Powdered myrrh,

one drachm and a half. sufficient. Conserve of roses, Mix, and make twenty pills. From two to four pills a day, in hooping-cough. Paris.

# Compound Pills of Sulphate of Zinc.

R. Sulphate of zinc, one grain. Extract of gentian, eight grains. Syrup of ginger, sufficient. Mix, and make two pills, to be taken during the day, with two fl. drachms of infusion of chamomile, in epilepsy. Ainslie.

#### Solution of Sulphate of Zinc.

R. Sulphate of zinc. two grains. Chamomile water, three fl. ounces. Dissolve. A spoonful, two or three times a day, in chronic dysentery. Radius.

#### Alkaline Solution of Zinc.

R. Sulphate of zinc,

twenty-four grains.

Solution of potassa,

three drachms.

Dissolve. Dose, thirty drops in water twice daily. A useful adjunct to other treatment in acne punctata.

A. T. Thomson.

# Collyrium of Sulphate of Zinc.

- R. Sulphate of zinc, one grain. Rose water, five hundred grains. Dissolve. Paris Codex.
- R. Sulphate of zinc. six grains. Acetate of lead, ten grains. one fl. drachm. Laudanum, Water, five fl. ounces.

As an application to the eyes in ophthalmia, after reduction of the inflammation. Gregory.

R. Sulphate of zinc, six grains. Mucilage of quince seed,

Distilled water, six fl. ounces. Spirit of camphor, five drops. Mix, and strain. Scarpa.

To be used as the last.

R. Sulphate of zinc. each, Crystallized sugar, one grain. Orris root, Rose water, eleven fl. drachms. Macerate, and filter. Dorvault. A popular remedy in France, where it is used under various names.

#### Collyrium of Sulphate of Zinc and Camphor.

R. Sulphate of zinc, one scruple. Camphor water, Rose water, each, eight fl. ounces. Ainslie.

#### Fomentation with Sulphate of Zinc.

R. Sulphate of zinc,

one drachm and a half.

Decoction of pomegranate

bark, four pints.

Peruvian bark,

two pints.

Laudanum, one fl. ounce. Mix. As an application to external piles, and in vaginal gonorrhœa. Brera.

#### White Caustic Lotion.

R. Sulphate of zinc, Acetate of lead, each, ninety grains. Nitrate of silver, ten grains. Corrosive sublimate, five grains. six fl. ounces. Water, Mix. Maryland Coll. Ph.

#### Gargle of Sulphate of Zinc.

R. Sulphate of zinc, one drachm. half a fl. ounce. Honey, Tincture of myrrh, Brandy, each, one fl. ounce. six fl. ounces. Rose water, Mix. In ulcerations of gums, etc., occasioned by excessive salivation.

# Plaster of Sulphate of Zinc.

R. Simple plaster,

eight hundred parts. fifty parts.

White wax, one fl. ounce. Fuse and add

Sulphate of zinc, twenty-five parts, previously dissolved in a little water. Agitate continually until the water has evaporated, and cool.

This is the emplatre diapalme of the

French Codex.

## Injection of Sulphate of Zinc.

R. Sulphate of zinc, one drachm. Camphor water, two fl. ounces. Water, two pints. Mix. Swediaur.

R. Sulphate of zinc, ten grains. Powdered gum Arabic,

two drachms. Laudanum, one fl. drachm. Distilled water, eight fl. ounces. Mix. In gonorrhœa. Ellis.

# Lotion of Sulphate of Zinc.

R. Sulphate of zinc, sixteen grains. Rose water. sixteen fl. ounces.

R. Sulphate of zinc, half a drachm. Water, Lead water, each, half a pint. Mix. Beasley.

R. Sulphate of zinc, four scruples. Distilled vinegar, one pint. Mix. Béral.

#### Sulphate of Zinc Mixture.

R. Sulphate of zinc, one grain. Decoction of cascarilla,

twelve fl. drachms. four fl. drachms. Simple syrup, Mix, to be divided into four doses, one to be taken three times a day, in hoopingcough. Ainslie.

#### ZINCI SULPHO-CARBOLAS.

SULPHO-CARBOLATE OF ZINC.

Solution of Sulphocarbolate of Zinc.

R. Sulpho-carbolate

of zinc, three to six grains. Water, one ounce. Dissolve. As an injection in gonorrhœa, and as a dressing for wounds and sores.

J. Wood.

Collodion with Sulphocarbolate of Zinc.

R. Sulphocarbolate

of zinc, one drachm. eight fl. ounces. Collodion, Dissolve the salt in a little alcohol, and mix with collodion. C. L. Mitchell.

# ZINCI VALERIANAS.

# VALERIANATE OF ZINC.

To the aqueous distillate obtained from valerian root, alcohol is added to dissolve the oil globules; a sufficient quantity of oxide of zinc, previously rubbed up with alcohol, is added, the mixture is heated to the boiling point, rapidly filtered, and set aside to crystallize. The crystals are washed with cold water, drained, and dried.

Guilliermond.

R. Sulphate of zinc,

five and three-quarter ounces. Valerianate of sodium,

> five ounces. sufficient.

Dissolve the salts each in forty ounces of the water, heat to near the boiling point, mix, and cool. Remove the crystals, evaporate mother-liquor at 200° to four fl. ounces and crystallize. Drain and wash the crystals with a little cold water, and dry.

R. Contused valerian,

Distilled water,

thirty-two ounces. Water, eight pounds. Sulphuric acid, three ounces.

Macerate for two days, and distil as long as product reddens litmus paper. Expose to the air for a month, then put it in a matrass with two hundred and twenty-five grains of recently-prepared oxide of zinc, and digest on a sand-bath for eight or ten hours, at 175° F., agitating occasionally; filter whilst hot, evaporate to three-fourths, and dry the residue on earthen plates. Buisson.

Has been recommended as a powerful nervine tonic, and antispasmodic, in neuralgia and hysteria. Dose, one to three grains, in the form of pills.

#### Pills of Valerianate of Zinc.

R. Valerianate of zinc, nine grains. Tragacanth, thirty grains. Mix, and make twelve pills. One, morning and evening, in nervous headache, etc.

#### Mixture of Valerianate of Zinc.

R. Valerianate of zinc,

one grain and a half. Distilled water, five fl. drachms.

Syrup, one fl. ounce.

Mix. A tablespoonful every half hour.

Devay.

#### ZINGIBER.

#### GINGER.

The rhizome of Zingiber officinale, a small herbaceous, perennial plant, a native of the East Indies.

Sex Syst. Monand. monog. Nat. Syst. Zin-

giberaceæ.

Roscoe, Trans. Linn. Soc. viii. 348. Grif-

fith, Med. Bot. 629.

The rhizome or root is creeping, knotty, lobated or palmated, and fleshy; with an agreeable, pungent, camphoraceous odor, and an aromatic, acrid, burning taste. Two kinds are met with in commerce, the black and the white; the first consists of the roots, scalded in hot water and dried; the second is also composed of the roots, but deprived of their epidermis previous to desiccation. Ginger contains a volatile oil, a soft, acrid resin, some gum, various salts, and the usual vegetable constituents. It is stimulating, somewhat acrid, aromatic, and stomachic. It is given in doses of ten grains to a scruple, or more.

### Infusion of Ginger.

R. Bruised ginger, half a troyounce.
Boiling water, one pint.
Macerate for two hours in a covered vessel, and strain.

Dose, a wineglassful. U. S. Ph.

#### Ginger Lozenges.

R. Powdered ginger, two ounces.

"sugar, fifteen ounces.

Mucilage of tragacanth, sufficient.

Mix well, and form lozenges of sixteen grains each.

Soubeiran.

R. Tincture of ginger, two fl. ounces. Powdered sugar,

twenty troyounces.

tragacanth,

half a troyounce.

Syrup of ginger, sufficient.

Mix the tincture with the sugar, evaporate the alcohol spontaneously, powder, add the tragacanth, and with the syrup form a mass to be divided into four hundred and eighty troches.

U. S. Ph.

#### Ginger Beer.

R. Sugar,
Bruised ginger,
Cream of tartar,
Lemons, sliced,
38

three pounds.
two ounces.
one ounce.
four.

Yeast, eight fl. ounces. Boiling water, four gallons. Pour the water on the four first-named ingredients, infuse for two hours, and strain; then add the yeast, and, when fermentation has commenced, pour into strong bottles and wire down the corks.

Redwood.

R. White sugar, twenty pounds.
Lemon juice, eighteen fl. ounces.
Honey, one pound.
Bruised ginger, twenty-two ounces.
Water, eighteen gallons.

Boil the ginger in three gallons of the water for half an hour; add the sugar, lemon juice, and honey with the remainder of the water, and strain; when cold add the white of an egg and half a fl. ounce of essence of lemon; let rest for four days, and bottle.

Pereira.

# Syrup of Ginger.

R. Fluid extract of ginger,

one fl. ounce.

Carbonate of magnesium,

two drachms.

Water, Sugar, seventy-two fl. ounces. Sugar, seventy-two troyounces. Rub the fluid extract with the carbonate and two troyounces of the sugar, then with the water gradually added, and filter; add the remainder of the sugar, dissolve with a gentle heat, and strain while hot.

U. S. Ph.

R. Strong tincture of ginger,
six fl. drachms.
Syrup, nineteen fl. ounces.
Mix by agitation.

Brit. Ph.

#### Fluid Extract of Ginger.

R. Ginger, in powder,

No. 50, sixteen troyounces.
Alcohol, sufficient.

Moisten the ginger with four fl. ounces of alcohol, pack firmly in a percolator, add twelve fl. ounces of alcohol, and macerate for four days; then displace twenty-four fl. ounces, reserving the first fourteen, evaporate the remainder to two fl. ounces, and mix with the reserved portion. U. S. Ph.

Dose, five to twenty minims.

# Strong Tincture of Ginger.

nces. Rectified spirit, sufficient.
Obtain by slow displacement one pint four. (twenty fl. ounces).

#### Tincture of Ginger.

R. Ginger, bruised, eight troyounces. Alcohol, sufficient.

Obtain by displacement two pints.

U. S. Ph.

Dose, half to one fl. drachm. The tincture of Brit. Ph. is about one-half this strength. Paris Codex and Ph. Germ. direct one part of ginger to five parts of alcohol, sp. gr. 0.892.

### Oil of Ginger.

R. Ginger, one part. Water, six parts.

Digest for five or six days; distil, and collect the oil.

### Oleoresin of Ginger.

R. Ginger, in powder,

twelve troyounces. No. 60, Stronger ether, twelve fl. ounces. sufficient. Alcohol,

Press the ginger firmly into a suitable percolator, add the ether, and then sufficient alcohol to obtain twelve fl. ounces of percolate. Distil the greater part of the ether, and evaporate the remaining ether sponta-U. S. Ph.

One part of the oleoresin corresponds to

about sixteen of ginger.

# Syrup of Oleoresin of Ginger.

R. Oleoresin of ginger, one scruple. Syrup, one ounce.

Dissolve, and strain, after twenty-four hours' digestion. Béral |

#### Essence of Ginger.

R. Jamaica ginger, four ounces. French brandy, one pint. Powder the ginger coarsely, moisten it

with the brandy, put it in a displacer, and pour the remainder of the brandy on it; when it ceases to pass, add diluted alcohol, till one pint has passed in all.

R. Bruised Jamaica ginger,

twelve pounds.

Alcohol, two gallons and a half. Digest fourteen days, express, strain, and reduce by distillation, to one gallon. Cool, and filter. A most excellent preparation.

R. Powdered ginger,

animal charcoal,

equal parts.

Alcohol, sufficient.

Moisten the powders for twenty-four hours, with sufficient alcohol to cover them; then transfer to a percolator, and return the first runnings two or three times. Change the receiver, and gradually pour on alcohol, as required, until as much essence is obtained as there was ginger employed.

# Spice Plaster.

R. Powdered ginger, two ounces.

cloves,

66 cinnamon, each,

one ounce.

red pepper, two drms. Tincture of ginger, half an ounce. Honey, sufficient.

Mix the powders; add the tincture, and sufficient honey to make of proper consistence for a stiff cataplasm. W. Procter.

# ADDENDA.

Under this title will be found a few articles belonging to the Formulary proper, together with a large number of practical receipts, which could not have been introduced, with propriety, under any of the officinal heads.

#### Fleming's Tincture of Aconite.

R. Powdered aconite root,

(troy) sixteen ounces.

Rectified spirit, sixteen fl. ounces. Macerate for four days, then pack in a percolator, and add rectified spirit until twenty-four fl. ounces of tincture are ob-

Dose, two to three minims, as an ano-Pereira. dyne.

#### Blacket's Tincture of Belladonna.

R. Extract of belladonna,

ten drachms.

Proof spirit, one pound.

Macerate, dissolve, and strain.

Dose, two or three minims as an anodyne. Lond. Ph. Jour.

#### Acoustic Balsam.

R. Compound tincture of benzoin, each, one Tincture of castor, fl. ounce. opium,

Essential oil of assafetida,

five drops.

Mix. Cooley.

R. Tincture of ambergris, each, assafetida, one fl. 46 castor, ounce. opium,

Terebinthinated balsam of sulphur, Oil of rue, each, fifteen drops. Mix. One or two drops are poured into the ear, or a piece of wool moistened therewith is introduced, in cases of atonic deafness. Baumé.

#### Clemens' Solution of Arsenic and Bromine.

R. Arsenious acid, Carbonate of potassium, one drachm. each,

Dissolve in water, dilute to twelve fl. ounces, and add

Bromine. two drachms. Digest until colorless. Dose, three or four drops, twice a day, in water. Dorvault.

#### Medicated Waters.

two drachms. R. Any essential oil, Precipitated chalk, one ounce. two fl. ounces. Alcohol. Distilled water. one gallon. Rub the oil with the chalk, then add the spirit gradually, and when completely dissolved, pour in the water by degrees; let it stand three minutes, and filter through close paper.

Mr. John Fordred affirms that chalk is decidedly preferable to the carbonate of magnesium, in preparing medicated waters.

Lond. Phar. Jour.

#### Extemporaneous Preparation of Medicated Waters.

R. Any essential oil, two drops. Carbonate of magnesium, six grains.

Rub together, and add gradually

Water, one fl. ounce. Filter the solution through bibulous paper.

#### Process for Coating Pills.

R. Flaxseed, one part. White sugar, three parts. Distilled water, sufficient.

Pour the boiling water on the seed to extract the mucilage, separate the thick mucilage, add the sugar, and carefully drive off the whole of the moisture by evaporation. Reduce the dried mucilage to powder, in which the pills (having been previously moistened) are to be rolled until covered with a layer of the compound.

Calloud.

(595)

R. Butter of cacao, Melt. Throw the prepared pills into the melted butter, then remove them with a perforated skimmer, and roll them in pow-

dered sugar, or sugar of milk. Calloud.

#### Pastilles de Paris.

R. Powdered cubebs,

one ounce and a half. gum Arabic, one ounce.

66 liquorice, sugar, each,

four ounces. Oil of lemon, fifty drops. Mix, and make lozenges of eight grains.

# Eau de Pagliari.

R. Tincture of benzoin,

eight fl. ounces. Alum, one pound. Water, ten pounds.

Mix. This preparation is said to possess an extraordinary power of coagulating the Sedillot. blood.

# Jackson's Pectoral Lozenges.

R. Powdered ipecacuanha, ten grains. Precipitated sulphuret of antimony, five grains. Muriate of morphia, six grains. Powdered gum Arabic, ) each,

sugar, eleven 66 liquorice, drachms. Oil of sassafras, four drops. Tincture of Tolu, four fl. drachms. sufficient. Syrup,

Mix, and divide into two hundred lozenges. S. Jackson.

#### Jackson's Pectoral Syrup.

R. Sassafras pith, one drachm. Gum Arabic, one ounce. Water, one pint.

Macerate twelve hours, then add

twenty-one ounces. Dissolve without heat, strain, and add

Muriate of morphia, eight grains. Mix carefully, and add water sufficient to make the whole measure two pints. Dose, a teaspoonful to a tablespoonful, every three hours. S. Jackson.

#### Kirkland's Neutral Cerate.

R. Lead plaster, eight ounces. Olive oil,

at will. | Melt, and while fluid, add

Prepared chalk, four ounces. Stir, until sufficiently cooled, then add

Acetic acid, four fl. ounces. Acetate of lead, three drachms. Paris. Mix.

#### Chlorodyne.

R. Muriate of morphia, eight grains. Oil of peppermint, two drops.

Tincture of Indian hemp,

each. one drachm.

Chloric ether, Treacle,

six drachms.

Chloroform, Scheele's hydrocyanic acid,

twelve drops.

Perchloric acid, twenty drops. Tincture of capsicum,

half a drachm.

Dissolve and mix.

Ogden.

R. Muriate of morphia, eight grains. Oil of peppermint, sixteen minims. Stronger ether, one fl. ounce. Extract of liquorice,

two and a half troyounces.

Pure chloroform, ) each, Stronger alcohol, four fl. cunces. Molasses. Officinal hydrocyanic acid,

two fl. ounces. seventeen and a half Syrup, fl. ounces.

Dissolve the morphia and oil in the alcohol, and add chloroform and ether. Mix liquorice, syrup, and molasses, shake the two mixtures, and add the hydrocyanic acid. Dose, five to ten minims, the vial to be Maryland Coll. Ph. well shaken.

FORMULAS FOR ELIXIRS AND OTHER PREPARATIONS.

Adopted by the American Pharmaceutical Association, 1873.

# Compound Powder of Cochineal.

R. Cochineal, each. Alum, two Carbonate of potasdrachms. sium,

Bitartrate of potassium, four drachms.

four ounces. Mix the powders thoroughly.

#### Compound Tincture of Cochineal.

R. Compound powder of cochineal, two drachms. Diluted alcohol, two fl. ounces. Macerate for twelve hours, and strain.

#### Spirit of Orange.

R. Oil of sweet orange, one fl. ounce. Stronger alcohol, fifteen fl. ounces. Dissolve.

### Simple Elixir.

R. Spirit of orange, half a fl. ounce. Stronger alcohol, four fl. ounces. Cinnamon water, Syrup, each, six fl. ounces. Mix, and clarify with paper pulp, made of sixty grains of filtering paper.

#### Red Elixir.

R. Compound tincture of cochineal, half a fl. ounce. Simple elixir, sixteen fl. ounces. Mix.

# 'Elixir of Calisaya Bark.

R. Tincture of cinchona, U. S. Ph., twenty-two fl. drachms. Simple elixir, sufficient for fl. sixteen ounces. Mix. A fl. drachm represents two grains of Calisaya bark.

#### Elixir of Calisaya Bark with Iron.

R. Elixir of Calisaya, fifteen fl. ounces. Warm distilled water, one fl. ounce.

Ammonio-citrate of iron, two drachms.

Dissolve and mix.

#### Compound Elixir of Cinchona.

R. Compound tincture of cinchona, U. S. Ph., twenty-two fl. drachms. Simple elixir, sufficient to make sixteen fl. ounces. Mix and filter.

#### Compound Elixir of Cinchona with Iron.

R. Compound elixir of cinchona, fifteen fl. ounces. Warm distilled water, one fl. ounce. Dissolve.

Ammonio-citrate of iron, two drachms.

Dissolve and mix.

#### Elixir of Citrate of Iron.

R. Ammonio-citrate of iron. two hundred and fifty-six grs. Warm distilled water, one fl. ounce. Simple elixir, fifteen fl. ounces. Dissolve and filter.

# Elixir of Pyrophosphate of Iron.

Made like the preceding, with two hundred and fifty-six grains of pyrophosphate of iron.

#### Elixir of Citrate of Bismuth.

Made like the preceding, with two hundred and fifty-six grains of ammonio-phosphate of bismuth.

#### Elixir of Pepsin.

R. Pepsin made by Scheffer's formula, two hundred and fifty-six grains. Sherry wine, fourteen fl. ounces. two fl. ounces. Syrup, Fluid extract of ginger, twenty-five drops.

Dissolve and mix.

#### Elixir of Valerianate of Ammonium.

R. Valerianate of ammonium, two hundred and fifty-six grs. Simple elixir, fifteen and a half fl. ounces. Compound tineture of cochineal, half a fl. ounce.

Dissolve the salt in two ounces of the elixir, neutralize with ammonia, and add remain-

# Elixir of Valerianate of Ammonium with Quinia.

R. Elixir of valerianate of ammonium, one pint. Sulphate of quinia, one hundred and twenty-eight grains.

Tincture of Sumbul. See page 565.

Compound Elixir of Sumbul. See page 566.

Elixir of Pyrophosphate of Iron, Quinia, and Strychnia.

C. L. Diehl's Formula, p. 558.

#### Elixir of Gentian with Iron.

R. Extract of gentian,
Ammonio-citrate of iron,
each, one hundred and
twenty-eight grains.
Warm distilled water,

one fl. ounce.
Simple elixir, fifteen fl. ounces.
Dissolve and mix.

#### Bitter Wine of Iron.

R. Sulphate of cinchonia,

forty-five grains.
Sulphate of quinia, fifteen grains.
Citric acid, sixty grains.
Ammonio-citrate of iron,

four drachms.

Concentrated tineture of fresh sweet orange-peel,

Distilled water,

each, Sherry wine, Eight fl. ounces. Syrup, two fl. ounces.

Dissolve the sulphates and acid in two fl. ounces, and the iron in the remaining water; mix the solutions, and add the other ingredients.

### Syrup of Liquorice Root.

R. Powdered liquorice root,

Diluted alcohol, sufficient.
Sugar, twelve troyounces.
Exhaust the powder with diluted alcohol, evaporate by a water-bath to ten fl. ounces, filter, and dissolve the sugar. The syrup should measure sixteen fl. ounces.

Recommended for masking the bitterness

of quinia.

## ANATOMICAL INJECTIONS.

I. FOR PRESERVING THE BODY.

#### A. Molasses Injection.

R. Boiling water, Common salt, two gallons. sufficient to saturate. Nitre, two to four ounces.
Molasses, four ounces.

Mix together, and boil for a few minutes. The proportions of nitre and molasses are variable. This injection penetrates well, and it will preserve the body long enough for dissecting purposes.

# B. Chloride of Zinc Injection.

R. Commercial muriatic

acid, ten pounds.

Add gradually

Scrap zinc, more than sufficient

to neutralize the acid.

This solution is extremely concentrated and acrid. Where the body is to be kept during the summer months, the Editor deems it advisable to throw the undiluted solution into the acrta until the fluid cozes from an incision made into the cellular tissue of one of the toes. About half a gallon is usually required to effect this object. In winter, one to three pints, diluted with water, will answer.

As a mere preservative nothing can surpass this injection; but it is open to the serious objection of bleaching the tissues.

# C. Nitrate of Lead Injection.

R. Nitric acid, ten pounds.
Powdered litharge, more than sufficient

to saturate.

Mix. One to two pints of this fluid may be advantageously added to a solution of salt containing a little nitre. The mixture forms a good preservative injection; giving a rusty, rather than a bleached appearance to the tissues.

#### D. Method of Preserving a Corpse.

R. Corrosive sublimate, sufficient to saturate

Alcohol, three pints. This mixture is to be thrown into the aorta. To be followed daily for three successive days by the same quantity of a saturated solution of the acetate of aluminium. The surface of the body is to be frequently washed with the latter solution. By this method the natural appearance of the body may be retained for a week.

W. R. Grant.

#### E. Gannal's Injection.

R. Sulphate of aluminium,
two pounds.
Acetate of lead, half a pound.

Dissolve the salts separately, in water, mix the solutions, and filter.

The body is to be injected with six pints of this fluid, by one of the large arteries.

Dorvault.

# II. FOR ARTERIAL AND VENOUS PREPARATIONS.

#### A. For Coarse Objects.

R. Tallow,
Resin,
Yellow wax,

Melt over a slow fire, and add sufficient red lead or vermilion to color.

R. Wax, sixteen ounces.
Resin,

Turpentine varnish, eight ounces.

Vermilion, one ounce.

Melt the wax and resin, stirring in the var-

nish and vermilion.

This injection is liable to melt in warm

This injection is liable to melt in warm weather, thus giving a flattened appearance to the bloodvessels.

R. Tallow, two pounds.

Magnesia, half an ounce.

Vermilion, one ounce.

Melt the tallow, and stir in the magnesia and vermilion.

This, like the two former injections, is thrown in hot. The following is used cold, and hence is called the cold paint injection.

R. White lead, well ground,

two pounds.

Turpentine varnish,

twelve drachms. six ounces.

Linseed oil, six ounces. Grind the white lead and varnish together, add the oil, and rub to the consistence of cream; in which state it is to be thrown into the arteries.

Dublin Dissector.

#### B. For Fine Preparations.

R. Lead, five parts.

Melt, and add

Bismuth, eight parts.
Tin, three parts.
Mercury, two parts.

Melt. This liquid amalgam is used for injecting the kidneys and other organs.

Francis.

R. Glue, one ounce. Dissolve, and add

Strong size, one pint.

Vermilion, or other coloring
matter, one ounce and a half.

Mix. Francis.

R. Canada balsam, one pound.
Vermilion, sufficient to color.
Mix intimately.

Dorvault.

#### C. For Preserving Specimens.

In the anatomical museums of this country it is customary to use alcohol in the preservation of specimens.

For the brain, nerve-matter, and ligaments, strong alcohol is employed. For other parts, a mixture of two parts of alcohol and one of water is found to answer.

The following are possessed of much

merit as preservative fluids :-

R. Saturate water with sulphurous acid, and add a little creasote.

Cooley.

R. Powdered corrosive
sublimate, two drachms.
Alcohol, one pint.
Mix, dissolve, and decant after twenty-four hours.

**Francis.**

# Goadby's Solutions.

No. 1. No. 2. No. 3.
Salt, 4 oz. 4 oz. 8 oz.
Alum, 2 oz. 2 oz.
Corrosive

sublimate, 2 grs. 3 grs. 2 grs. Water, 2 pts. 4 pts. 2 pts.

Mr. Goadby usually employs No. 1; but for delicate preparations that might be injured by a concentrated solution, he substitutes No. 2. As alum decomposes osseous matter, No. 3 is used when the tissues contain carbonate of lime.

No. 4. No. 5. Salt, 8 oz. 8 oz. Corrosive sublimate, 15 grs. 15 grs. Arsenious acid, 15 grs. 2 pts. Water, 2 pts. These solutions are used for old and soft preparations. Dorvault.

#### Reboulet's Solution.

R. Nitre, one part.

Alum, two parts.

Chlorinated lime, four parts.

Water, sixteen parts.

To be afterwards diluted according to circumstances.

Cooley.

#### BLACKING.

#### No. 1.

twelve ounces. R. Ivory black, Treacle, four ounces. Sperm oil, one ounce. two pints. Vinegar, Oil of vitriol (by weight),

two ounces.

Mix the first three ingredients, and add the vinegar gradually, stirring after each addition; add the oil of vitriol very carefully, stirring constantly until the effervescence Lond. Ph. Jour. ceases.

#### No. 2.

R. Ivory black, Treacle, each, twelve ounces. Sperm oil,

Oil of vitriol, each, three ounces. Vinegar, four pints.

Mix the ivory black, treacle, and vinegar together; then mix the sperm oil and oil of vitriol separately, and add them to the other mixture. Redwood.

# No. 3.—(Liquid.)

R. Ivory black, in fine powder,

one pound. Treacle, three-fourths of a pound. Sweet oil, two ounces. Beer, Vinegar, each, one pint.

Rub the first three together until uniformly mixed, then add the beer and vinegar.

Cooley.

#### No. 4.

R. Ivory black, sixteen parts. Treacle, eight parts. Oil of vitriol four parts, Diluted with

Water, two parts. Gum Arabic, one part. Soft water, sixty-four parts. Mix as before. Cooley.

## No. 5 .- (Paste.)

R. Ivory black, in powder,

one pound and a quarter. Treacle, one pound. Sweet oil, two ounces. Rub together till well mixed, then add

Vinegar, sufficient to form a paste. Cooley.

# Blacking for Grates.

R. Asphaltum, four pounds. Melt, and add Linseed oil, two pounds. Oil of turpentine, one gallon. Mix. Gray.

### Boot Composition.

R. Boiled linseed oil, one pint. Oil of turpentine, ) each, Black resin, three ounces. Wax,

Melt the wax and resin together, and stir in the boiling oil; then remove the pot from the fire, and when it has cooled a little, add the turpentine, and mix.

R. Caoutchouc, two drachms. Mineral naphtha, two ounces. Asphaltum,

Ivory black, each, half an ounce. Oil of turpentine, one ounce.

Dissolve the caoutchouc in the naphtha, and the asphaltum in the turpentine; mix the two solutions, and add the ivory black. Lond. Ph. Jour.

Both of these compositions are reputed to be water-proof.

#### Bug Poison.

#### No. 1.

R. Alcohol, one hundred and twenty parts. Camphor, two parts. Oil of turpentine, four parts. Corrosive sublimate, one part. Mix and dissolve. Dorvault.

No. 2.

R. Coal-tar naphtha. Oil of turpentine, equal parts. Mix. Redwood.

#### No. 3.

### For Roaches and Ants.

R. Arsenic, in powder, one part. Mashed potatoes, three parts. Mix.

#### No. 4.

## For Roaches, Rats, Mice, Etc.

R. Phosphorus, eight parts. Tepid water, each, one hundred Rye meal, and eighty parts. Butter,

Sugar, one hundred and twenty-five parts.

Liquefy the phosphorus in the tepid water in a bottle, and mix it in a mortar with the rye meal; when cold, add the butter and sugar, and mix them all thoroughly together.

Gray.

#### No. 5.

#### For Flies, Etc.

R. Rasped quassia, two drachms.
Boiling water, one pint.
Boil together for a few minutes, strain, and

Molasses, four fl. ounces.

Mix. Dorvault.

#### CEMENTS.

#### Diamond Cement.

R. Isinglass, two drachms. Sprinkle it with water, and when soft, dissolve it in the smallest possible quantity of proof spirit by a moderate heat.

Rectified spirit, three fl. drachms.

Dissolve. Mix the two solutions, and stir in one drachm of powdered ammoniac rubbed down with a little water. Keep the cement in a bottle. When wanted for use, plunge the bottle in warm water to soften the cement, which is applied in thin layers on the fractured surfaces, and the pieces are to be held in firm contact till cool.

Used for setting jewelry, mending china, etc. Lond. Ph. Jour.

#### Cement for China and Stoneware.

Gelatin is allowed to swell in cold water, the jelly is warmed, and so much freshly-slaked lime is added as is necessary to thicken the mass. A thin coating of this cement is applied warm to the gently-heated surface, and the pieces are held together under strong pressure. Heller.

R. Whites of eggs, at will.

Finely powdered
quicklime, sufficient
to thicken. Used for mending china, etc.;
but it does not resist moisture.

R. Shellac, at will.
Alcohol, sufficient
to form a liquid of the consistence of molasses.

This is an excellent cement.

# Cement for the Laboratory.

R. Resin, five pounds.

Dry red ochre, in fine powder,
Wax, each, one pound.
Plaster of Paris, two to four ounces.

Melt the resin and wax, add the ochre, and, lastly, the plaster. Mix well together.

#### Luting for Bottles, etc.

Melt common resin and yellow wax together, and add red ochre in small quantities, and when of the proper consistence, boil for six or eight minutes; add a small quantity of oil of turpentine, and stir well with a spatula. The proportions of the different constituents vary, the luting being more or less brittle, or elastic, as the ochre prevails.

Francis.

R. Flour,
Whiting, each, ten parts.
Common salt, one part.
Mix and add sufficient water to make a paste. This is used by the distillers of spirituous liquors.

Francis.

R. Sal ammoniac,
Whiting, equal parts.
Water, sufficient
to form a paste. This forms a good lute.
Francis.

R. Common clay,

Whiting, equal parts.

Water, sufficient

to form a paste. This lute will stand a high heat.

Francis.

#### Colors for Show-bottles.

#### Blue.

R. Sulphate of copper,
Alum, each, one ounce.
Water, two pints.
Sulphuric acid, half an ounce.
Mix, and dissolve.

R. Prussian blue, ten grains.
Oxalic acid, twenty grains.
Water, one pint.

Dissolve.

R. A. Dissolve ammonio-sulphate of copper, and ammonio-nitrate of nickel (prepared by dissolving nickel in diluted nitric acid, and water.

- B. Dissolve the sulphate of indigo in water.
- C. Dissolve Prussian blue in diluted muriatic acid, and dilute with water.

#### Purple.

R. Verdigris, two drachms. Spirit of hartshorn, four ounces. one pint and a half. Water, Mix.

R. Sulphate of copper, one ounce. Carbonate of ammonium,

one ounce and a half. two pints and a half. Water, Mix.

R. Infusion of logwood, two pints. Spirit of hartshorn, sufficient to produce the desired hue.

#### Lilac.

- R. Add carbonate of ammonium to a solution of nitrate of cobalt, until the precipitate first formed is redissolved; adding ammonio-sulphate of copper to bring out the desired tint.
- R. Dissolve zaffre (impure oxide of cobalt) in muriatic acid, filter, and add carbonate of ammonium in excess; to this add ammonio-sulphate of copper, until the required color is produced.

#### Orange.

- R. Dissolve bichromate of potassium in water till the desired tint is obtained.
- A little sulphuric acid is sometimes added.

#### Yellow.

R. Bichromate of potassium, six drachms. Carbonate of potassium, four drachms. sixteen ounces. Water, Mix.

R. A. Color the spirit of hartshorn, or an aqueous solution of sal ammoniac, with cochineal.

adding ammonia in excess), in B. Add vinegar to red-beet liquor, or to red-cabbage liquor.

> C. Dissolve carmine in the solution of ammonia, and dilute with water.

#### Green.

R. A. Dissolve three ounces of verdigris in sulphuric acid, and add four pints of water.

B. Dissolve one ounce of nickel in six ounces of nitric acid, and add five

pints of water.

C. Dissolve ammonio-sulphate of copper in water, and add bichromate of potassium, until the required color is produced.

#### DENTIFRICE.

No. 1.

R. Powdered tormentilla,

eighty parts. orris root, forty parts. Cream of tartar, twenty parts. Fused chloride of calcium,

four parts.

Reduce the chloride rapidly to powder, and mix it with the other ingredients.

Hainault.

No. 2.

R. Powdered Peruvian bark,

one ounce. myrrh, each, half rhatany, an ounce. orris root.

Mix carefully.

44

66

66

No. 3.

R. Powdered Peruvian bark,

myrrh,

each, half an ounce. charcoal, two ounces.

Mix.

# DEPILATORIES.

#### No. 1.

R. Sulphuret of sodium, three parts. Quicklime, in powder, ten parts. Starch, ten parts.

Mix. Rub a little of this powder with water, apply it to the part, and remove the hair in a minute or two with a wooden knife. F. Boudet. No. 2.

R. To a strong solution of sulphuret of barium, add sufficient powdered starch to make a paste. It is used like the preceding.

Redwood.

MIXTURES FOR COLORED FIRES.

#### Red Fire.

R. Dried nitrate of strontium,
seventy-two parts.
Sulphur, twenty parts.
Gunpowder, eight parts.
Coal dust, two parts.
Mix. This mixture is liable to spontaneous explosion.

Redwood.

R. Chlorate of potassium,
sixty-one parts.
Sulphur, sixteen parts.
Carbonate of strontium,
twenty-three parts.

Mix the powders with the hand.

Marchand.

#### Yellow Fire.

R. Chlorate of potassium,
sixty-one parts.
Sulphur, sixteen parts.
Dry carbonate of sodium,
twenty-three parts.

Mix. Marchand.

R. Dried nitrate of sodium,
seventy-four and a half parts.
Sulphur, nineteen and a half parts.
Charcoal, six parts.
Mix. Gray.

#### Blue Fire.

R. Nitre, five parts.
Sulphur, two parts.
Metallic antimony, one part.

Mix. Gray.

R. Chlorate of potassium,
sixty-one parts.
Sulphur, sixteen parts.
Strongly-calcined alum,
twenty-three parts.

Mix. Marchand.

#### Green Fire.

R. Chlorate of potassium, seventy-three parts. Sulphur, seventeen parts. Boracid acid, ten parts. ix. Marchand.

#### Violet Fire.

R. Chlorate of potassium, sixty parts.
Sulphur, sixteen parts.
Carbonate of potassium,
Alum, each, twelve parts.
Mix.

Marchand.

#### White Fire.

R. Nitre, forty-six and a half parts.
Sulphur, twenty-three parts.
Gunpowder,
twelve and a half parts.
Zinc powder, eighteen parts.
Mix.
Gray.

# LIQUID GLUE.

R. Glue, two pounds and a half.
Water, two pints and a quarter.
Dissolve in a water-bath, and add gradually
Nitric acid (sp. gr. 1.32),

seven ounces.

Remove from the fire, and stand aside to cool.

This glue keeps well, and is used for a variety of purposes.

Dumoulin.

#### MARINE GLUE.

R. Caoutchouc, two to four parts.

Coal-tar naphtha, thirty-four parts.

Mix, dissolve by heat, and add

Powdered shellac, sixty-four parts. Heat gently, and stir till uniformly mixed; then pour out on plates to harden.

When used, it is necessary to heat the cement to 248° F. and apply it with a

The union made by this cement is very durable.

Dorvault.

#### INKS.

#### Black Ink.

R. Chipped logwood,

twenty-two pounds.

Boiling water, sufficient to yield fourteen gallons of filtered decoction. When cold, add, very gradually,

Yellow chromate of potassium, sufficient to obtain the required color.
This ink does not corrode steel pens.

Runge.

R. Powdered extract of logwood, Bichromate of potassium,

half an ounce. five gallons. Water,

Dissolve the ingredients separately in water, and mix them.

In a short time the ink will be fit for use. W. H. Pile.

#### Blue Ink.

R. Triturate six parts of Prussian blue with a little water and one part of oxalic acid, and dilute with water.

Mohr.

R. Powdered Prussian blue.

one ounce.

Concentrated hydrochloric acid, one and a half fl. ounces.

Mix in a glass bottle, and after thirty hours dissolve in water. Cooley.

R. Dissolve indigo in sulphuric acid, and add water to produce the proper shade. As much potassa is to be added as the liquid will bear without dropping its color. Cooley.

#### Red Ink.

R. Pure carmine, twenty grains. Water of ammonia, three ounces. Dissolve, and add

Powdered gum, eighteen grains.

Where expense constitutes an objection, half a drachm of powdered drop-lake may be substituted for the powdered carmine.

Buchner's Repert.

R. Cochineal, powdered, one ounce. Hot water, eight fl. ounces. Digest, cool, and add

Ammonia water, one fl. ounce. Water, three fl. ounces. Macerate for some days. Cooley.

R. Brazil wood, four ounces. Alum, two ounces. Distilled water, two pints. Boil for fifteen minutes, and strain; then

Powdered gum Arabic, one ounce. Mix, and bottle for use. Gray.

#### Anilin Inks.

(avoir.) twelve ounces. R. Dissolve fuchsin (or other anilin color) in alcohol, add the solution to soft water, until the desired shade is obtained, and dissolve in each pint two or three drachms of gum Arabic.

#### Indelible Ink.

R. Nitrate of silver, two drachms. Gum Arabic, one drachm. Distilled water, one fl. ounce. Indian ink, sufficient to color. Mix and dissolve.

R. Carbonate of sodium, in crystals, two ounces. Gum Arabic, two drachms. Water, four fl. ounces.

Mix.

The place to be marked is moistened with the last solution and dried. It is then to be marked with a pen dipped in the first solution, and afterwards exposed to the rays of the sun; and washed after twentyfour hours. U.S. Disp.

#### POMATUM.

R. Beef marrow, seventeen drachms. Nervine balsam (see p. 499), seventeen drachms.

two drachms.

Mix together, and add

Rose oil,

Alcoholic extract of cantharides, six grains,

dissolved in a little alcohol. Dupuytren. R. Beef marrow, three to four ounces.

Castor oil, one ounce. Melt, and strain the marrow, add the oil, and, as the mixture cools, beat continually until it assumes a white, frothy appearance; flavoring with extract of orange.

### PUTTY.

Whiting made into a paste with boiled linseed oil.

# SEALING WAX.

#### Red.

two pounds. R. Shellac, one pound. Venice turpentine, Vermilion, or best dichromate of lead, one pound and a half. Melt the shellac and turpentine together, and add the pigment as the mixture cools. Redwood.

Is made in the same way as the red, only substituting the best lampblack for vermilion or dichromate of lead.

In like manner, other colors are imparted by varying the pigment, and using chromate of lead, verdigris, green verditer, etc.

Redwood.

#### Bottle Wax.

R. Black resin, six pounds. half a pound. Beeswax, Ivory-black, or lampblack,

one pound and a half. Melt the resin and wax, and stir in the

ivory-black.

Venetian red, red lead, or bole, may be substituted for lampblack. Redwood.

#### SOLDERS.

# Solder for Tin-plate.

R. Tin, two parts. Lead, one part. Mix.

#### Solder for Pewter.

R. Tin, ten parts. Lead. five parts. Bismuth, one part.

Mix.

## Solder for Iron, Copper, and Brass.

R. Copper, Zinc, equal parts. Mix.

#### Solder for Zinc and Lead.

R. Lead, two parts. Tin, one part. Mix.

#### Solder for Silver.

R. Silver, five parts. Brass, six parts. Zinc, two parts. Mix. Gray's Supp.

# Solder for Gold.

R. Gold, twelve parts. Silver, two parts. Copper, four parts. Mix. Francis.

#### FELT SPLINTS.

Dissolve three pounds of shellac in two quarts of alcohol, in a tinned vessel, with a tight cover to prevent evaporation. Spread | No heat is employed.

a piece of woollen cloth on a board, and with a clean brush saturate both sides of the cloth with the solution. Hang it up until thoroughly dried; then lay it again upon the board, and apply a second coat of the solution to one side only of the cloth. Dry again, and apply a third coat to the same side. While the last coat is yet fresh, fold the cloth so that the side having three coats shall be applied to itself. Then, with a hot flat-iron, smooth, and press the surfaces together. When cold, a slight rubbing with sand-paper makes it fit for use.

It becomes a firm, almost unyielding board; but exposure to a moderate heat will make it pliant, so that it can easily and accurately be adapted to any surface.

Dr. F. H. Hamilton.

#### TRACING PAPER.

Paper brushed over with a thin varnish of colorless Damara resin, the varnish being allowed to soak through the paper without any apparent coating of it remaining on the surface. Redwood.

#### VARNISHES.

#### Varnish for Coating Metals.

R. Copal, Oil of rosemary, each, one part. Alcohol, two to three parts. Mix. It should be applied hot, and, when dry, it will be found very hard and durable. Schindler.

#### Varnish for Leather.

R. Oil of turpentine, saturated with caoutchouc, six parts. Copal,

Oil of rosemary, each, two parts. Mix. This varnish should be applied somewhat fluid, and always dried at a high temperature. Schindler.

R. Alcohol, twenty gallons. Shellac, thirty-five pounds. Resin, twenty pounds. White turpentine, ten pounds. Powdered lampblack, four pounds. Bruise the shellac and resin, put them in

the alcohol, and stir ten or twelve times during the day, which will prevent the for-mation of lumps, and will nearly dissolve it in one day. Next day add the turpen-tine, and stir five or six times; the third day stir in the powdered and sifted lampblack.

E. S. Frey.

#### Varnish for Furniture.

R. Dissolve fused copal in oil of turpentine.

If the copal has not been kept a sufficient time in a state of fusion, the varnish made with it remains soft for some time after it is dry, and afterwards peels off. Schindler.

#### Amber Varnish.

R. Amber, one pound.

Place it in an iron pot, and render it semifluid by heat; then add

Pale boiled oil, ten ounces.

Mix, remove from the fire, and add

Oil of turpentine, one pint.
Stir well together. Cooley.

### Japan Varnish.

R. Oil of turpentine, eight ounces.
" lavender, six ounces.
Camphor, one drachm.
Bruised copal, two ounces.

Mix, and dissolve. Used for japanning tin. Cooley.

#### Lac Varnish (Aqueous).

R. Pale shellac, five ounces.

Borax, one ounce.

Water, one pint.

Digest at nearly the boiling point until dissolved; then strain. A good vehicle for water colors, inks, etc.

Cooley.

#### Lac Varnish.

R. Shellac, ninety parts.
Venice turpentine, four parts.
Alcohol, five hundred parts.
Digest until dissolved, and strain. Gray.

#### Copal Varnish.

A variety of methods is resorted to for making copal varnish. One of the cheapest is to dissolve copal in drying linseed oil, near the boiling point, and, when sufficiently cool, to dilute the mixture with oil of turpentine.

Cooley.

# DIETETIC PREPARATIONS.

# NOT INCLUDED AMONG THE PREVIOUS PRESCRIPTIONS.

#### Tous les Mois.

This is a variety of arrowroot, prepared from the rhizomes of a species of Canna, and is to be employed in the same manner and in same cases as arrowroot.

#### Mucilage of Salep.

Salep is the prepared bulbs of several species of orchidaceous plants. It is more nutritive than arrowroot or sago, and hence is adapted for the convalescent, rather than for the sick. These roots are powdered with much difficulty. The mucilage is prepared by dissolving the powder in boiling water, constantly stirring, and adding to the solution sugar and milk. Soubeiran orders powdered salep, half an ounce, to be boiled with a sufficient quantity of water till dissolved, four ounces of sugar added, and to be aromatized according to taste.

#### Biscuit Jelly.

White biscuit, four ounces, to be boiled down in four pints of water, to one-half, strained, and evaporated to one pint; one pound of white sugar, four ounces of port wine, and one drachm of cinnamon water added, and the whole well mixed.

It has been found useful in debility of the digestive organs. A. T. Thomson.

#### Bread Jelly.

Cut a French roll into slices, toast these on both sides, and boil in a quart of water until the whole forms a jelly, adding more water if required; strain, and flavor.

This is nutritious, and may be made more so by using broth, wholly deprived of fat, instead of water. Cooley.

#### Panada.

Stale wheat bread, one ounce; cinnamon, one drachm; water, one pint. This is very milk, or wine.

Cover up and let stand for an hour, beat up and boil for ten minutes, adding a little grated nutmeg and sugar. Wine may be added, if required.

Ellis.

#### Compound Salep Powders.

Powdered salep, tragacanth, and sago, each, four ounces; cochineal, half a drachm; prepared oyster-shells, one ounce.

These are to be carefully mixed and divided into powders of one drachm each. Stir one of these into a pint of milk, and boil for ten or fifteen minutes. To be taken freely in diarrhœa and dysentery.

Ellis

These are known as Castanello's powders, for which the following is used as a substitute:—

Powdered gum Arabic, tragacanth, arrowroot, sago, and tapioca, each, two drachms. Mix them well together, boil in a pint of milk, flavored with nutmeg or cinnamon.

Used as a diet in dysentery, diarrhea, etc.

#### Vegetable Broth.

Take two potatoes, one carrot, one turnip, and one onion.

Slice them, and boil in a quart of water for an hour, adding more water from time to time, so as to keep up the original quantity; flavor with salt, and a small portion of potherbs; strain. When advisable, a small quantity of mushroom catsup added to this broth greatly improves its taste.

A good substitute for animal food, when the last is inadmissible. Ellis.

#### Gloucester Jelly.

Rice, sago, pearl barley, hartshorn shavings, eryngium root, each, one ounce; boil in three pints of water to one pint, and strain.

This is very nutritive, dissolved in broth, milk, or wine.

A. T. Thomson.

(607)

#### Almond Jelly.

Blanched sweet almonds and white sugar, each, one ounce; water, four ounces; make an emulsion; strain, and add melted hartshorn jelly, half a pound; orange-flower water, one drachm; and essence of lemon, two or three drops.

Cooley.

#### Boiled Flour.

Take of fine flour a pound, tie it up in a linen cloth as tight as possible, and after frequently dipping it into cold water, dredge the outside with flour, till a crust is formed round it, which will prevent the water soaking into it, whilst boiling.

Boil for a long time, and permit to cool, when it will become a hard, dry mass.

This is to be grated and prepared like arrowroot. A good diet for children, in diarrhœa, etc.

Ellis.

#### Beef Tea.

Take of lean beef, cut into shreds, one pound; water, one quart.

Boil for twenty minutes, removing any scum that arises. When it has become cold, strain.

Ellis.

Take half a pound of good rump steak, cut into thin slices, and spread these in a hollow dish; sprinkle a little salt over them, and pour upon the whole a pint of boiling water.

Cover the dish and place it near the fire for half an hour; then remove to a pan and boil for fifteen minutes; strain through a fine sieve.

The quantity of water is too small for the strength of the tea for invalids, but is sufficient to extract all the soluble parts of the beef, and the tea can be reduced to the proper strength by the addition of boiling water.

A. T. Thomson.

#### Essence of Beef.

Take of lean beef, sliced, a sufficient quantity to fill the body of a porter bottle, cork up loosely, and place it in a pot of cold water, attaching the neck, by means of a string, to the handle of the pot.

Boil for an hour and a half to two hours, then decant the liquid and skim it.

To this preparation may be added spices, salt, wine, brandy, etc., according to the taste of the patient and nature of the disease.

Ellis.

#### Mutton Tea.

Take one pound of good mutton, freed from the fat, and cut into thin slices; pour over it a pint and a half of boiling water, in the same manner as directed for beef tea; but it requires to be boiled for half an hour, previous to straining.

If the invalid desires the addition of barley, an ounce of clean pearl barley, washed, and macerated in boiling water for an hour, may be boiled with the mutton tea, and the undissolved barley separated by straining.

A. T. Thomson.

#### Veal Tea.

This is to be made in the same manner as beef tea, using a pound of the fillet of veal, freed from fat and sliced, and a pint and a half of boiling water; boiling for half an hour. It may also be made with the same quantity of the fleshy part of a knuckle of veal. By boiling this latter down to one-half, and straining, the decoction will gelatinize, and, if poured into small cups, will keep good for several days.

By the addition of an equal quantity of boiling water to this jelly, it is fit for use in a few minutes.

A. T. Thomson.

#### Chicken Water.

Take half a chicken, divested of all fat, and break the bones; add to this half a gallon of water.

Boil for half an hour, strain, and season with salt.

Ellis.

Take a small chicken, free it from the skin, and from all the fat between the muscles; divide it longitudinally into halves; remove the lungs, liver, etc., then cut it, bones and muscles, into thin slices, and put these into a pan with a sufficient quantity of salt; add a quart of boiling water, cover the pan, and simmer slowly for two hours; strain through a fine sieve.

A. T. Thomson.

#### Calves'-Feet Jelly.

Take two calves' feet, and add to them one gallon of water, and boil down to one quart; strain, and when cold, remove all fat; then add the whites of six or eight eggs, well beaten; a pint of wine, half a pound of loaf sugar, and the juice of four lemons, and mix well.

Boil for a few minutes, constantly stirring; then strain through a flannel bag. The wine may be omitted if necessary.

Ellis.

#### Toast Water.

Toast thoroughly a slice of stale bread, put it in a jug, and pour over it a quart of water which has been boiled and cooled, and in two hours decant; a small piece of orange or lemon-peel put into the jug with the bread, improves the flavor greatly.

This forms a good drink in febrile affections. A. T. Thomson.

# Apple Water.

Slice two large apples, and pour over the slices a pint of boiling water.

Let stand for an hour, and decant; if necessary, sweeten with a little white sugar. A. T. Thomson.

It is also prepared by boiling for an hour, ten ounces of sliced apple in two pints of water, and straining. Soubeiran.

#### Lemon-Peel Water.

Pare the rind of one lemon, which has been previously rubbed with half an ounce of refined loaf sugar, put the peeling and sugar into a jar, and pour over them a quart of boiling water. When cold, pour off the fluid, and add a tablespoonful of lemon juice.

If wine be not improper, a glass of sherry may be added, instead of the lemon juice.

# A. T. Thomson.

#### Bran Tea.

Fresh wheat bran, one pound; water, three quarts.

Boil down to one quart, strain, and add sugar, honey, or molasses, according to the taste of the patient.

#### Chicken Panada.

Take the white meat of a boiled or roasted chicken, free it from the skin, and cut it into small morsels; pound these in a mortar with an equal quantity of stale bread, and a sufficiency of salt, adding gradually some of the water in which the chicken has been boiled, or some beef tea, until the whole forms a thin, fluid paste.

Put this into a pan, and boil for ten minutes, continually stirring.

A. T. Thomson.

#### Mutton Broth.

Take a pound of mutton, freed from fat, put it into a pan with three pints of water, and simmer for two hours. Take three carrots, the same number of turnips, peel, and cut them in slices, boil them for half an hour in a quart of water, throw them an a colander to drain off the water, and having boiled two onions sliced in a pint of water, and poured off the water, add the whole of these vegetables to the mutton liquor; after removing the meat, season with salt and a little celery seed.

Simmer slowly for four hours, put in the meat again, and continue to simmer for another hour. The meat may be served with the broth. A palatable and very nutritive dish for convalescents.

A. T. Thomson.

#### Fowl with Rice.

Free a young fowl from the skin and the fat on the exterior of the body, and simmer it in good beef tea, till it is very tender.

Season with salt, and, having boiled some rice, add it to the liquor before the fowl is dished.

A. T. Thomson.

#### Water Souchy.

Take two small, fresh flounders, boil them in a quart of water to one-third, or long enough to reduce the fish to a pulp; strain the liquor through a sieve, and, having cut off the fins of four other small flounders, put the latter into the liquor, with a sufficiency of salt, a few grains of Cayenne pepper, and a small quantity of chopped parsley, and boil till the fish is perfectly done.

The fish and liquor are to be eaten together. Few dishes are more relished by convalescents from fever. A. T. Thomson.

Scale, gut, and wash two perch; put salt in the water; when it boils, put in the fish, with an onion cut into slices and separated into rings, and a handful of parsley picked and washed clean.

When the fish are done, put them in a soup-dish, and pour the liquor over them.

Hofland.

#### Mulled Wine.

Take a quarter of an ounce of bruised cinnamon, half a nutmeg, grated, and ten bruised cloves; infuse them in half a pint of boiling water for an hour, strain, and add half an ounce of white sugar.

Pour the whole into a pint of hot port or

sherry wine.

A good cordial and restorative in the low stages of fever, or in the debility of convalescents from fevers.

A. T. Thomson.

#### Cold Custard.

Take the yolk and white of an egg, and a tablespoonful of sugar; beat together till the tenacity of the white of the egg is entirely destroyed; add gradually, constantly stirring, half a pint of cold water, two teaspoonfuls of rose-water, and a little grated nutmeg.

A wineglassful to be taken every two or three hours. Dewees.

#### Molasses Posset.

Put in a saucepan a pint of best molasses, a teaspoonful of powdered white ginger, and a quarter of a pound of fresh butter.

Simmer for half an hour, stirring frequently. Then stir in the juice of two lemons, or two tablespoonfuls of vinegar, cover the pan, and let it stand by the fire five minutes.

A. T. Thomson.

#### Chicken Jelly.

Cut a chicken into small pieces, bruise the bones, and put the whole into a stone jar, with a cover that fits water-tight. Set the jar in a large kettle of boiling water, and keep it boiling for three hours.

Then strain, and season with salt, pepper, and mace, or with loaf sugar and lemon juice, according to circumstances and taste.

A. T. Thomson.

#### Chocolate.

Put milk and water on to boil; then scrape the chocolate fine, one or two squares to a pint, as will best

suit the stomach; when the mixture of milk and water boils, take it off the fire, throw the chocolate into it, mill it well, and serve it up with the froth.

The sugar may be mixed with the scraped chocolate, or added afterwards. It should never be made before it is wanted, as heating it again injures the flavor, and causes a separation of the oil.

Cooley.

#### Chocolate Milk.

Dissolve an ounce of scraped chocolate in a pint of boiling new milk.

Cooley.

#### Coffee Milk.

Boil a dessertspoonful of ground coffee in a pint of milk, for a quarter of an hour; then clear it with white of egg or isinglass, let it boil for a few minutes, and set it by the side of the fire to fine. Sweeten according to taste.

This is a suitable breakfast for those of spare habit, and disposed to affections of the lungs.

Cooley.

#### Rice Custard.

Boil half a cupful of the best ground rice in a pint of milk, until dissolved; then mix it with a quart of cream; flavor with nutmeg, mace, and a little brandy.

Cooley.

#### Frumenty.

Bruised wheat, boiled in water until quite soft; drain, thin with milk, sweeten, and flavor according to taste.

The bruised wheat boiled to a paste, and, when cold, eaten with milk, in the evening, for some time, will often relieve costiveness.

#### Ginger Beer.

Take of white sugar, three pounds; bruised ginger, two ounces; cream of tartar, one ounce; lemons, sliced, four; boiling water, four gallons; yeast, eight ounces.

Pour the water on the four first-named ingredients, and infuse for two hours; then strain, add the yeast, and, when fermentation has continued for some hours, put into stone bottles and tie down the corks.

Gray.

#### Spruce Beer.

Take of sugar, six pounds; essence of spruce, four ounces; boiling water, ten gallons; yeast, eight ounces.

Add the water to the sugar and essence, ferment with the yeast, and bottle in the same way as ginger beer. Gray.

#### Molasses Beer.

Take of molasses, fourteen pounds; hops, a pound and a half; water, thirty-six gallons; yeast, a pound.

Boil the hops in the water, add the molasses, and ferment. Gray.

#### Caudle.

Into a pint of thin gruel, put, while it is boiling hot, the yolk of an egg, beaten with sugar, and mixed with a tablespoonful of cold water, a glass of wine, and some nutmeg.

Mix well together.

A nourishing, restorative mixture, given during convalescence. Gray.

#### Barley Mixture.

Take of pearl barley, sliced figs, stoned raisins, each, two ounces and a half; liquorice root, sliced and bruised, five drachms; water, five pints and a half.

Clean the barley by washing, boil it in four and a half pints of the water down to two pints; add the figs, raisins, and liquorice root, with the remaining pint of water; boil down to two pints, and strain.

This is nutritive and demulcent. Gray.

#### Artificial Asses' Milk.

Boil together a pint of water and an ounce of hartshorn shavings, until reduced to a jelly; add two ounces of white sugar; when cold, mix with a pint of new milk, and a teaspoonful of syrup of Tolu.

To be taken freely, as a nutritive beverage.

Cooley.

#### Isinglass Blancmange.

Isinglass, a quarter of a pound; rose water, half a pint; milk, two quarts; milk of almonds, half a pint.

Boil to a proper consistence, and permit to cool. Hoffmann.

#### Rice Blancmange.

Ground rice, two ounces; milk, one pint; lump sugar, three ounces; a little lemon-peel and cinnamon.

Dissolve the rice in the milk, by boiling, reduce it to a proper consistence, then add the spice and sugar; boil for a few minutes, strain, and let cool. The rice should be rubbed up with a little water, before adding it to the milk, to prevent it from being in lumps.

Cooley.

#### Soda Cakes.

Flour, one pound; bicarbonate of sodium, a quarter of an ounce; sugar and butter, each, half a pound; make a paste with milk; add candied orange, lemon, or citron, or the fresh peel, grated, according to taste.

They may be made with the same quantity of carbonate of magnesium, instead of the soda, and the candied peel omitted. In dyspepsia, with acidity.

Cooley.

# LIST OF INCOMPATIBLES.

A complete list of all the incompatibles to each medicinal agent would swell the catalogue to an inordinate degree. The following is only intended

to present the chief incompatibles.

It should also be borne in mind that clinical experiments have not yet been sufficiently numerous, to determine whether the substances capable of producing precipitation in vegetable solutions, are really incompatible with the active medicinal principles of the plants in question.

- ABSINTHIUM, with sulphates of iron | ACIDUM NITRICUM, with the metallic and zinc, acetates of lead, nitrate of silver, tartar emetic.
- Acacia, with Goulard's extract, alcohol, nitric acid, tincture of chloride of iron.
- ACIDUM ACETICUM, with alkalies, alkaline and earthy carbonates.
- ACIDUM CITRICUM, with acetates of lead, nitrate and acetate of mercury, alkalies, alkaline and earthy sulphurets, and carbonates.
- ACIDUM ARSENIOSUM, with magnesia, lime water, alkaline and earthy sulphurets, hydrated peroxide of iron, astringent vegetable infusions and decoctions.
- ACIDUM GALLICUM, with lime water, alkaline carbonates, acetate of lead, salts of copper, nitrate of silver, iodide of iron, sulphate of iron, tartar emetic, solution of opium, etc.
- ACIDUM HYDROCYANICUM, with mineral acids, metallic oxides, chlorine, etc.
- ACIDUM MURIATICUM, with alkalies and their carbonates, alkaline earths, metallic oxides and carbonates, sulphuret and tartrate of potassium, salts of silver, lead, Ammonia, with acids, mineral salts, and mercury.

- oxides, the carbonates, the salifiable bases, the essential oils,
- ACIDUM NITRO-MURIATICUM, with oxides, earths, and alkalies, the sulphurets, etc.
- ACIDUM PHOSPHORICUM, with the soluble salts of calcium, barium, and lead.
- ACIDUM SULPHURICUM, with earths, alkalies, and their carbonates, the sulphurets, etc.
- ACIDUM TANNICUM, with per salts of iron, albumen, gelatin, alkalies, alkaline earths, and carbonates, tartar emetic, acetate of lead, vegetable alkaloids, etc.
- ACIDUM TARTARICUM, with alkalies and their carbonates, and the alkaline earths and carbonates.
- ÆTHER HYPONITROSUS, with alcoholic solution of caustic potassa.
- ÆTHER MURIATICUS, with solution of caustic potassa.
- ALUMEN, with the alkalies and alkaline carbonates, lime, magnesia, acetate of lead, infusion of galls, etc.
- alum, etc.

(612)

- Ammonii Acetas, with alkalies, strong | Barii Chloridum, with the alkaline acids, corrosive sublimate, nitrate of silver, alkaline earths, salts of quinia, etc.
- Ammonii Carbonas, with acids, caustic potassa and soda, magnesia, alum, chloride of calcium, bitartrate and bisulphate of potassium, the salts of iron, bichloride of mercury, salts of lead, of zinc, etc.
- Ammonii Chloridum, with sulphuric and nitric acids, salts of lead and silver, potassa, soda, their carbonates, lime, etc.
- Angustura, with sulphates of iron and copper, nitrate of silver, tartar emetic, acetates of lead, bichloride of mercury, potassa, infusion of galls, etc.
- Anthemis, with solution of gelatin, infusions containing gallic acid, salts of iron, nitrate of silver, salts of lead, bichloride of mercury, etc.
- ANTIMONII SULPHURETUM, with nitric and nitro-muriatic acids.
- ANTIMONII ET POTASSII TARTRAS, with alkalies and earths, and their carbonates, strong acids, sulphurets, lime water, chloride of calcium, salts of lead, soaps, infusions containing gallic acid, rhubarb, etc.
- Armoracia, with carbonates of the alkalies, bichloride of mercury, nitrate of silver, vegetable bitters and astringents, etc.
- ARGENTI NITRAS, with the fixed alkalies, muriatic and arsenious acids, and their salts, lime, the phosphates, acetates, iodides, bromides, chlorides, and sulphurets, astringent vegetable infusions, etc.
- ARNICA, with sulphates of iron and zinc, acetate of lead, mineral acids, etc.
- AURANTII CORTEX, with infusion of bark, sulphate of iron, lime water, etc.

- and earthy carbonates, alum, nitrate of silver, etc.
- Benzoinum, with the acids and alka-
- Bistorta, with salts of iron, gelatin,
- Belladonna, with caustic alkaline solutions, tannin, vegetable astringents, etc.
- BISMUTHI NITRAS, with the alkalies, vegetable astringents, etc.
- Calamus, with acetate of lead.
- CALCII CARBONAS, with the acids and acidulous salts, alum, chloride of ammonium.
- CALCII CHLORIDUM LIQUOR, with the soluble sulphates and carbonates, carbonate of magnesium, etc.
- Calcis Liquor, with the mineral and acetic, phosphoric, tartaric, and citric acids, chloride of ammonium, the alkaline carbonates, soap, the vegetable astringents, alum, sulphates of iron and zinc, sulphate of magnesium, chlorides of mercury, nitrate of silver.
- CALUMBA, with ammonia, lime water, mineral acids, chloride of iron, nitrate of silver, acetate of lead.
- Capsicum, with corrosive sublimate, acetate of lead, nitrate of silver, sulphates of iron, zinc, and copper, carbonates of the alkalies.
- CARDAMOMUM, with the acids, sulphate of iron, bichloride of mercury, etc.
- CARYOPHYLLUS, with tartar emetic, sulphates of iron and zinc, etc.
- CASCARILLA, with lime water, sulphates of iron and zinc, infusions containing tannic or gallic acid.
- Cassia Fistula, with alcohol.
- CATECHU, with alkalies, the salts of iron, gelatin, etc.
- CINCHONA, with strong acids, alkalies, sulphates of iron and zinc, nitrate of silver, tartar emetic, lime, magnesia, etc.

- Coccus, with acetate of lead, sulphates | Ferri Sulphas, with nitric acid, fixed of zinc and iron. | Ferri Sulphas, with nitric acid, fixed alkalies, and their carbonates,
- COLCHICUM, with acids, which render the vinous tincture drastic; alkalies, on the contrary, render it milder in its operation.
- Colocynthis, with fixed alkalies, sulphate of iron, nitrate of silver, acetate of lead, etc.
- CONIUM, with the strong acids, alkalies, tannin, etc.
- CONTRAYERVA (tincture), with water. COPAIBA, with the mineral acids.
- COPTIS TRIFOLIA, with nitrate of silver, and acetate of lead.
- CRETA PRÆPARATA, with acids and acidulous salts, alum, chloride of ammonium.
- CUPRUM AMMONIATUM, with acids, potassa and soda, lime water.
- CUPRI SULPHAS, with fixed alkalies, ammonia, the carbonates, bichloride of mercury, arsenite of potassium, nitrate of silver, acetate of lead, vegetable infusions, etc.
- CYDONIA, with acids, most metallic salts, alcohol.
- DIGITALIS, with sulphate of iron, infusion of Peruvian bark, acetate of lead, tannin, and vegetable astringents.
- FERRUM AMMONIATUM, with acids, the fixed alkalies, lime water, astringent infusions.
- FERRI IODIDUM, with fixed alkalies, lime water, vegetable astringents, etc.
- FERRI ET POTASSII TARTRAS, with the mineral acids, alkalies, vegetable astringents.
- FERRI SUBCARBONAS, with the mineral acids, acidulous salts, etc.
- FERRI CHLORIDUM, with alkalies and their carbonates, lime water, carbonate of calcium, magnesium, and its carbonate, solution of gum, vegetable astringents.

- FERRI SULPHAS, with nitric acid, fixed alkalies, and their carbonates, lime water, nitrates of potassium and of silver, borate of sodium, acetate of lead, iodide of potassium, vegetable astringents, etc.
- Galla, with alkalies, the carbonates of the alkalies, lime water, salts of iron, zinc, lead, bismuth, tartar emetic, bichloride of mercury, gelatin, vegetable alkaloids, etc.
- GUAIACI TINCTURA, with water, the mineral acids, spirit of nitrous ether, earthy and metallic salts, etc.
- Granatum (Cortex), with sulphate of iron, etc.
- Hæmatoxylon, with mineral acids, alum, sulphates of iron and copper, tartar emetic, acetate of lead.
- Hydrargyrum Ammoniatum, with muriatic and other acids, the fixed alkalies, and protochloride of tin.
- Hydrargyri Chloridum mite, with the alkalies, lime, chlorides, and carbonates of the alkalies, nitric acid, salts of iron, lead, and copper, iodide of potassium, soaps, etc.
- Hydrargyri Chloridum Corrosivum, with alkalies and lime, and their carbonates, tartar emetic, sulphuret of potassium, soap, iron, copper, lead, and their salts, nitrate of silver, albumen, gelatin, gluten, milk, vegetable astringents, fixed oils, etc.
- Hydrargyri Oxidum Rubrum, with the mineral and vegetable acids.
- HYDRARGYRI OXIDUM NIGRUM, with the mineral and vegetable acids.
- HYDRARGYRI IODIDUM, with the mineral acids, soluble chlorides, and iodides.
- HYDRARGYRI IODIDUM RUBRUM, with the mineral acids, iodides, and chlorides.

- Hydrargyrum cum Creta, with the | Potassa, with acids and acidulous mineral and organic acids, acidulous salts, alum, etc.
- Hyoscyamus, with acetate of lead, nitrate of silver, sulphate of iron, tannin, and the vegetable astrin-
- IODINIUM, with starch, alkalies, and alkaline earths.
- IPECACUANHA, with the vegetable astringents, acetate of lead, etc.
- Kino, with the salts of iron, acetate of lead, the mineral acids, gelatin, tartar emetic, etc.
- Krameria, with salts of iron, acetate of lead, gelatin, mineral acids,
- Magnesia, with acids and acidulous salts, chloride of ammonium, metallic salts.
- Magnesii Carbonas, with acids and acidulous salts, metallic salts, lime water, chloride of ammonium, bitartrate of potassium.
- Magnesii Sulphas, with ammonia, acetate of lead, chloride of calcium, lime water, potassa and soda, and their carbonates, etc.
- MENTHA, with sulphate of iron, nitrate of silver, acetate of lead, etc.
- Morphiæ Acetas, with alkaline carbonates, ammonia, vegetable astringents, all articles incompatible with infusion of opium, except acetate of lead.
- MORPHIÆ MURIAS, with acetate of lead, tannin, ammonia, alkaline carbonates, etc.
- Moschus, with mineral acids, bichloride of mercury, sulphate of iron, nitrate of silver, infusion of bark, etc.
- Opium, with alkalies and their carbonates, nitrate of silver, acetate of lead, salts of copper, iron, and zinc, astringent infusions, etc.

- salts, earthy and metallic salts, salts of ammonium, etc.
- Potassii Acetas, with mineral acids, sulphates of sodium and magnesium, tartaric acid, most metallic and earthy salts, except the acetates, etc.
- Potassii Arsenitis, Liquor, with lime water, acids, chlorides of iron and calcium, sulphate of magnesium, alum, sulphates of iron and copper, iodide of iron, nitrate of silver, vegetable astringents.
- Potassii Bitartras, with strong acids, 'lime water, ammonia, the alkaline carbonates, magnesia, sulphate and carbonate of magnesium, etc.
- Potassii Bromidum, with acid and acidulous salts, except bitartrate of potassium, with the salts of lead, silver, and mercury, etc.
- Potassii Carbonas, with acids, metallic salts, lime water, sulphate of magnesium, salts of ammonium, alum, calomel, etc.
- Potassii Citras, with salts of calcium, lead, and silver, sulphuric and other acids.
- Potassii Iodidum, with acetate of lead, bichloride of mercury, tartaric acid, metallic salts, all acids and acidulous salts, except bitartrate of potassium.
- Potassii Nitras, with alum, sulphate of magnesium, metallic sulphates, sulphuric acid, muriatic acid (when heated), tartaric acid.
- Potassii Sulphas, with tartaric acid, acetate of lead, chloride of calcium, bichloride of mercury, nitrate of silver, etc.
- Potassii Sulphuretum, with acids and most metallic salts.
- Potassii Tartras, with most acids, lime water, acetate of lead, nitrate of silver, chloride of calcium.

- PIMENTA, with alum, ammonia, alkaline carbonates, salts of iron, copper, zinc, and silver, vegetable astringents.
- PIPER NIGRUM, with vegetable astringents.
- Plumbi Acetas, with the alkalies and their carbonates, the mineral and vegetable acids (except acetic acid), the tartrates and bitartrates, alkaline and metallic sulphates and chlorides, alum, borax, lime water, vegetable astringents, infusion of opium, the soaps, milk.
- Plumbi Iodidum, with solution of potassa, sulphuric acid.
- Quassia, with nitrate of silver, acetate of lead, etc.
- Quiniæ Sulphas, with tartrate of potassium, alkalies and their carbonates, lime water, infusion of galls.
- Rheum, with strong acids, lime water, sulphates of iron and zinc, tartar emetic, bichloride of mercury.
- Rosa Gallica, with sulphates of iron and zinc, gelatin, lime water.
- SALIX, with lime water, sulphate of iron, alkaline carbonates, solution of isinglass.
- SALVIA, with salts of iron.
- SAPO (and liniments, etc., containing it), with sulphates of calcium and magnesium, chloride of calcium, alum, metallic salts, lime water.
- SARSAPARILLA, with infusion of galls, lime water, acetate of lead.
- Scilla, with lime water, alkaline carbonates, nitrate of silver, acetate of lead, etc.
- Senna, with strong acids, carbonates of the alkalies, lime water, tartar emetic.

- SERPENTARIA, with acetate of lead.
- Sodii Carbonas, with acids, bitartrate of potassium, acidulous, metallic, and earthy salts, lime water.
- Sodii Phosphas, with mineral acids, lime, magnesia, earthy and metallic salts.
- Sodii Sulphas, with salts precipitated by sulphuric acid, carbonates of potassium, acetate of potassium.
- Sodii et Potassii Tartras, with most acids and acidulous salts, acetate of lead, nitrate of silver.
- Spiritus Ætheris Nitrosi, with sulphate of iron, tincture of guaiacum, alkaline and earthy carbonates, especially those with an excess of acid.
- TAMARINDUS, with the salts of potassium, the alkaline carbonates, lime water, tartar emetic.
- TARAXACUM, with corrosive sublimate, sulphate of iron, nitrate of silver, acetate of lead, infusion of galls, etc.
- THEA, with salts of iron, gelatin, lime water, etc.
- TORMENTILLA, with solution of isinglass, salts of iron, alkalies, etc.
- Tragacanth, with sulphates of iron and copper, acetate of lead, alcohol, etc.
- ULMUS, with alcoholic tinctures, if added in quantity.
- UVA URSI, with salts of iron, gelatin, tartar emetic.
- ZINCI OXIDUM, with acids, acidulous salts, potassa, soda, and ammonia.
- ZINCI SULPHAS, with potassa, soda, and ammonia, and their carbonates, the sulphurets, milk, mucilages, astringent vegetable infusions, etc.

## POSOLOGICAL TABLE

OF THE

#### MOST IMPORTANT MEDICINES.

Absinthium, Infusion, f3j to ij. Extract, grs. x to xx. Tincture, gtt. xx to f3ij. Oil, gtt. ij to iv. Acetosella, Extract, 9j to 3ss. Acidum Arseniosum, gr. 1 to 1. Benzoicum, grs. x to xx. Boracicum, grs. v to xx. Carbolicum, grs. j to iij. Gallicum, grs. ij to x. Hydrocyanicum (medicinal), gtt. j to ij. Hydriodicum, gtt. v to x. Lacticum, 9j to ij. Muriaticum, gtt. v to x. dilut. gtt. xx to xxx. Nitrieum, gtt. ij to vj. dilut. gtt. xx to xxx. Nitromuriaticum, gtt. ij to iv. dilutum, m x to xv. Phosphoricum, dilut. gtt. x to f3j. Sulphuricum, gtt. ij to v. dilut. gtt. x to xxx. aromatic. gtt. v to xx. Tannicum, grs. j to iij. Tartaricum, grs. x to xxx. Aconitum, Powder, grs. j to ij. Extract, gr. j. alcoholic, gr.  $\frac{1}{6}$  to  $\frac{1}{2}$ . of root, gr.  $\frac{1}{8}$  to  $\frac{1}{3}$ . Root, gr. ss to j. Tincture of root, gtt. v to vj. Tincture of leaves, gtt. x to xv. Æther, Acetic, gtt. x to f3j. Hyponitrosus, gtt. x to lx. Nitrous, spirit of, f3ss to ij. Hydrocyanic, gtt. ij to iij. Muriatic, gtt. xxx to lx. Sulphuric, f3ss to j. spirit, f3j to iij. compound, f3ss to ij.

Allium, Syrup, f3j. Aloe, Powder, gr. iij to x. and Canella, grs. v to xx. Wine, f3j to f3ss. Tincture, f3j to f3ss. and Myrrh, f3ss to ij. Alumen, grs. v to xx. Ammonia, Water, gtt. v to xx. Tincture comp., gtt. x to xl. Spirit of, gtt. v to xx. aromatic, m xx to lx. Ammonium, Acetate, Solution of, fäss to j. Bromide, grs. v to x. Carbonate, grs. v to x. Chloride, grs. v to xv. Citrate, Solution of, f3ss to j. Hydrosulphate, gtt. v to vj. Iodide, gr. j to v. Nitrate, 3ss to j. Phosphate, grs. x to xl. Succinate, Spirit, gtt. xx to l. Sulphate, 9j to 3ss. Valerianate, grs. ij to viij. Ammoniacum, grs. v to xv. mixture, f3ss to j. Amylum, Iodide, 3ss to j. Angelica, Tincture, f3j to ij. Angustura, Powder, grs. x to 3j. Infusion, f 3ij. Tincture, f3j to ij. Anthemis, Infusion, f\( \frac{7}{3} \) to ij. Extract, grs. x to xx. Syrup, f3ss. Anthracokali, grs. ij to iv. Antimonium, oxide, grs. i to iv. Sulphuret, grs. v to x. precipitated, grs. j to iij. Kermes mineral, gr.  $\frac{1}{2}$  to x. Potassium, Tartrate of, gr.  $\frac{1}{6}$  to j. Wine, gtt. xxx to f3j. (617)

Antimonium, Powder, grs. iij to Apocynum, Decoction, f3j to ij. Extract, grs. iij to v. Argentum, Chloride, gr. 10 to ij. and Ammonia, gr. 14 to 10. Cyanide, gr.  $\frac{1}{12}$  to  $\frac{1}{8}$ . Iodide, gr.  $\frac{1}{2}$  to j. Nitrate, gr. \(\frac{1}{4}\) to ij. Oxide, gr.  $\frac{1}{4}$  to ij. Armoracia, Infusion, f3j to ij. Spirit comp. f3j to iv. Arnica, Powder, grs. v to x. Extract, grs. v to x. Infusion, f3ss to j. Tincture, gtt. xxx to 1. Arsenicum, Iodide, gr. 10 to 16. Donovan's Solution, gtt. v to xx. Arum, Powder, grs. x. Asclepias Tuberosa, Infusion, f3iij to iv. Asparagus, Extract, 9j to 3j. Syrup, 3j to ij. Assafætida, grs. ij to x. Mixture, f3ss to j. Tincture, f3j. ammoniated, gtt. v to f3j. Atropia, gr. 130. Aurum, gr. 1 to j. Chloride, gr.  $\frac{1}{20}$  to  $\frac{1}{16}$ . Sodium et, Chleride, gr. 1 to 10. Cyanide, gr.  $\frac{1}{18}$  to  $\frac{1}{10}$ . Iodide, gr. 1 to 10. Oxide, gr. 10 to 4. Azederach, Decoction, f3ss to j. Ballota Lanata, Decoction, f3j to ij. Balsamum Peruvianum, f3ss. Balsamum Tolutanum, gr. x to xxx. Syrup, f3ss. Tincture, f3j. Baptisia Tinctoria, Decoction, f3ss. Barium, Chloride, Solution, gtt. v. Iodide, gr. 1/8. Bebeerina, Sulphate, grs. v to 9j. Belladonna, gr. j to ij. Extract, gr.  $\frac{1}{2}$  to j. alcoholic, gr. 1 to j. Syrup, 3j to ij. Tincture, gtt. xv to xxx. Benzoin, Compound Tincture, gtt. x to xx. Bismuthum, Subcarbonate, grs. ij to x. Subnitrate, grs. ij to x. Tannate, grs. x to xxx. Valerianate, gr. j to v.

Bistort, Infusion, f3j to ij.

Boletus Laricis, gr. j to iij. Brayera, 3ij to iv. Brominium, Solution, gtt. v to x. Brucia, gr.  $\frac{1}{8}$  to  $\frac{1}{2}$ . Tincture, gtt. v to xx. Buchu, gr. xx to xxx. Fluid Extract, m xv to xxx. Infusion, f3ij. Cahinca,  $\ni$ j to  $\exists$ j. Calamus, Infusion, f3j to ij. Powder, 3j to iij. Calcium, Bromide, grs. x to xxx. Chloride, solution, gtt. xx to xxx. Carbonate, grs. x to xxx. Hypophosphite, grs. ij to xv. Iodide, grs. ij to iij. Phosphate, 9j to jss. Calx. Lime water, f3ss to ij. Calendula, Extract, grs. ij to v. Calomel, as an alterative, gr.  $\frac{1}{10}$  to  $\frac{1}{2}$ . as a purgative, grs. v to xij. Calotropis, Infusion, f3j to f3j. Powder, grs. iij to xx. Calumba, Powder, grs. x to xxx. Infusion, f3ij. Tincture, f3j to iv. Extract, grs. j to v. fluid, m x to xxx. Camphora, grs. iij to x. Water, f3ss to j. Tincture, gtt. v to xx. Monobromated, grs. ij to v. Canella, grs. x to 9j. Cannabis, Extract, gr.  $\frac{1}{3}$  to v. Tincture, gtt. x to xl. Cantharis, gr. ½ to j. Tincture, gtt. xx to f5j. Capsicum, grs. v to x. Infusion, f3ss. Tincture, f3ss to ij. Carbo Animalis, grs. x to xx. Ligni, 3ss to j. Mineralis (Athracokali), grs. ij Cardamomum, Tincture, f3j to ij. Carota, Infusion, seeds, fžij to iv. Carum, Spirit, f3j to ij. Caryophyllus, Powder, grs. v to x. Infusion, f3j to ij. Tincture, f3j to ij. Oil, gtt. ij to v. Cascarilla Powder, 9j to 3ss. Infusion, f3j to ij. Extract, grs. x to xx.

Tincture, f3j.

Cassia Fistula, 3ij to 3ss. Castanea, fluid extract, f3ss to j. Castoreum, grs. v to xx. Tincture, gtt. xxx to f5ij. Catalpa, Decoction, f 3ij to iij. Catechu, grs. x to 9j. Infusion, comp. f 3j to iij. Tincture, gtt. xxx to f 3iij. Centaurea Benedicta, 9j to 3j. Infusion, f 3j to ij. Centaurium, extract, grs. v to xx. Cerium, oxalate, gr. j to iij. Cetraria, 3ss to j. Decoction, f3ij. Cetrarine, grs. ij to v. Chelidonium, Extract, grs. v to xv. Chenopodium, Juice, f3ss. Oil, gtt. iv to x. Chimaphila, Decoction, f 3ij to iv. Extract, grs. x to xxx. Fluid extract, f3ss to j. Chiretta, 9j. Infusion, f 3j to ij. Tincture, f3ss to ij. Chlorinium, Water, f5j to iv. Chloroformum, gtt. v to xx. Cimicifuga, Decoction, f 3j to ij. Fluid extract, mx to xxx. Tincture, gtt. xx. Cinchona, Powder, 3ss to j.

Extract, grs. x to xxx. Fluid extract, f3ss to j. Decoction, f3j. Infusion, f 3ij.

Tincture, f3j to iv. compound, f3j to iv.

Cinchonia, grs. ij to x. Sulphate, gr. ij to x.

Cinnamomum, Powder, grs. x to 9j.

comp. grs. x to xxx. Oil, gtt. j to iij. Tincture, f3j to iv. Water, f3ss.

Codeia, grs. ss to ij. and Morphia, Muriate, gr. 1/4 to 1/2.

Coffeina, gr. j to iij. Colchicum, Powder, grs. ij to viij.

Extract, bulb, gr. j to ij. Fluid extract, mij to x. Wine, root, gtt. x to xx. seeds, f3j.

Tincture, seeds, f3ss to ij. Colocynthis, Powder, grs. v to x. Extract, gr. ss to j.

comp. grs. v to xv. Conium, Powder, grs. iij to v. Conium, Extract, gr. j. to ij. alcoholic, gr. j to ij. Fluid extract of fruit, mij to v. Tincture, gtt. xx to f3j. Contrayerva, Powder, 3ss.

Extract, 9j.

Tincture, gtt. xxx to xl. Copaiba, grs. xx to 3j.

Tincture, gtt. xxx to f3j.

Oil, gtt. x to xxx. Coptis, Powder, grs. x to xxx.

Infusion, f3ss to ij. Tincture, f3j to iij. Coriander, Dj to iij.

Cornus, Powder, 9j to 3j.

Fluid extract, f3j. Creasotum, gtt. j to ij. Crocus, grs. x to xxx.

Cubeba, Powder, grs. xx to 3iij.

Tincture, f3j to ij. Oil, gtt. v to x. Oleoresin, my to xx. Fluid extract, f3j.

Cupri sulphas (as emetic), gr. j to iij. Cuprum Ammoniatum, gr. 4 to 1. Cypripedium, grs. x to xx.

Delphinium, Tincture, gtt. x to xx. Delphinia, gr.  $\frac{1}{4}$  to  $\frac{1}{3}$ . Digitalis, Powder, gr. ½ to iv. Extract, gr. ss to ij.

Fluid extract, mj to iv. Infusion, f3ss.

Tincture, gtt. x to xx. Digitalinum, gr.  $\frac{1}{60}$  to  $\frac{1}{20}$ . Diospyros, Infusion, f 3j.

Dulcamara, Powder, grs. xxx to 3j.

Decoction, f 3j to ij. Extract, grs. v to x. Fluid extract, f3ss to j.

Elaterium (common), gr. j to ij. Clutterbuck's, gr. \(\frac{1}{8}\) to \(\frac{1}{4}\). Elaterinum, gr. 10.

Tincture, gtt. xx to xl.

Emetia (impure), gr.  $\frac{1}{16}$  to j. Syrup, f3j.

Ergota, Powder, grs. x to xxx. Infusion, f 3j. Wine, f 3ij to iij. Tincture, gtt. xx to f3j. Extract (Ergotine), gr. ij. Fluid extract, mx to xxx.

Oil, gtt. xx to l. Erigeron Annuum, Infusion, fäij to

iv.

Erigeron Canadense, infusion, f 3 ij to | Galla, Powder, grs. v to xxx.

Extract, grs. v to x. Oil, gtt. iv to x.

Eupatorium, Powder, grs. xx to xxx. Infusion, f3j.

Euphorbia Corollata, Powder, grs. x. to xx.

> Ipecacuanha, Powder, grs. x to xv. Hypericifolia, Infusion, f 3ss to ij. Lathyris, Oil, gtt. iv to xij.

Ferrum, Ammoniated, grs. iv to xij. Tincture, gtt. xl to f3j.

Ferri Pulvis, grs. ij to x.

Ferrum, Acetate, gtt. x to xxv. Tincture, gtt. xxx to f3j. Arseniate, gr.  $\frac{1}{16}$  to  $\frac{1}{2}$ .

Bromidum, gr. j to iij. Carbonate, grs. x to 3ij.

Saccharine, grs. x to xx. Carburet, grs. v to xv. Chloride, gr. j to ij.

Tincture, gtt. x to xxx.

Citrate, grs. iv to viij.

and Quinia, grs. v to x. and Strychnia, grs. ij to vj.

Ferrocyanide, grs. iij to v. Iodide, grs. ij to iij.

> Syrup, gtt. x to f3ss. Syrup (Lond.), f3ss to j.

Lactate, grs. ij to iv.

Malate, Extract, grs. v to 9j. Nitrate, Solution, gtt. vj to xij.

Oxalate, gr. j to iij.

Oxide, black, grs. v to xx.

Red, grs. v to xv. Saccharated, grs. x to xx.

Phosphate, grs. v to x. Pyrophosphate, grs. ij to x. Sulphate, grs. ij to v.

dried, gr. j to iij.

Tartrate, grs. v to x.

Wine, f 3j. Ammonio, grs. v. Tannate, grs. ij to iij.

Valerianate, gr. j to ij. Wine, f 3ss to j.

Filix Mas, 3j to ij.

Oleoresin, grs. xv to xx. Frasera, Powder, grs. xxx to 3j.

Infusion, f3j to ij. Fuligo, Tincture, gtt. xxx to f3j. Fuligokali, grs. ij to iij.

Galbanum, grs. x to xx.

Infusion, f 3j to ij.

Tincture, f3j to iij. Syrup, f 3ss.

Gambogia, gr. j to vj.

Solution, alkaline, gtt. xv. Gaultheria, Oil, gtt. ij to x.

Gelsemium, grs. iij to x.

Fluid extract, m ij to v. Tincture, gtt. xx to xl.

Gentiana, Powder, grs. x to xl.

Extract, grs. x to 9j. Fluid extract, m x to xxx.

Infusion, f3j.

Tincture, comp., f3j to ij.

Geranium, grs. x to xxx. Extract, grs. x to xx. Fluid extract, mx to xxx.

Geoffroya, 9j to 3ss. Decoction, f3j to ij.

Gillenia, grs. xx to xxx. Glycerina, f 3ss to ij.

Gossypium, bark of root, 9j to ij.

Fluid extract, m x to xxx. Granatum, Decoction (rind), f3j.

(bark), f Zij to iv.

Gratiola, Wine, f3j.

Guaiacum, Resin, grs. x to 9j. Wood, decoction, f3j to ij.

Tincture, f 3j to ij.

Ammoniated, f3j to ij.

Guarana, grs. x to xx.

Hæmatoxylon, Infusion, f 3ss to ij.

Decoction, f3ss to ij. Extract, grs. x to xxx.

Hedeoma, Oil, gtt. ij to x.

Helleborus, Powder, grs. x to 9j. Extract, grs. v to xv.

Tincture, gtt. xxx to f3j. Hemidesmus, Syrup, f3j.

Hippocastanum, Powder, 3j to iv. Humulus, Infusion, f 3j to ij.

Tincture, f 3j to iij.

Hydrargyrum,

with Antimony, gr. j to iv. with Chalk, grs. v to 9j. with Magnesia, grs. v to 9j.

Blue pill, grs. v to x.

Acetate, gr. j.

Borate, grs. ij. Bromide, gr. j to v.

Bibromide, gr.  $\frac{1}{20}$  to  $\frac{1}{10}$ .

Chloride, Corrosive, gr. 1/16 to 1/4. Mild, as an alterative, gr. 10

to 1.

Hydrargyrum, Chloride, Mild, as a Krameria, Syrup, f 3ss. purgative, grs. v to xij. Cyanide, gr.  $\frac{1}{16}$  to  $\frac{1}{8}$ . Iodide, Green, gr. 1 to j. Red, gr.  $\frac{1}{16}$  to  $\frac{1}{10}$ . Nitrate, gr. 4 to j. Oxide, Black, gr. j to ij.

Red, gr. ½ to j. Phosphate, gr. 1/2 to j. Sulphate, gr. 4 to v.

Sulphuret, Black, grs. v to x. Red, grs. x to xv.

Tartrate, gr. j to ij. Hydrastis, grs. x to xx.

Fluid extract, mx to xx. Hyoscyamus, Powder, grs. ij to v. Extract, gr. j.

Tincture, gtt. xx to f3ss.

Ignatia, Extract, gr. \(\frac{1}{8}\) to \(\frac{1}{2}\) Tincture, gtt. x to xv. Indigo, Powder, 9j to ij. Iodinium, gr. 1 to j.

> Tincture, gtt. x to xx. Compound tineture, gtt. xv to

Lugol's Solution, gtt. v to x. Iodoformum, gr. j to iij.

Ipecacuanha, Powder, as as Expectorant, gr. j to ij. as an Emetic, grs. xv to xxx.

comp. grs. v to x. Fluid Extract, mxv to xx. Syrup, f3j to ij. Wine, f3j to f3j.

Jalapa, Powder, grs. x to xxx. comp., 3ss to j. Extract, grs. v to x. alkaline, grs. iij to ix. Resin, grs. ij to v. Soap, grs. x to xv.

Tincture, f3j to ij. Juglans Cinerea, Extract, grs. v to

Juniperus, Extract, 3j to iij. Infusion, f žij to iv. Oil, gtt. iij to vj.

Kamala, 3ss to ij. Kino, Powder, grs. x to xx. Tincture, f3ss to ij. Krameria, Powder, grs. xx to xxx. Extract, grs. x to xx. Infusion, f 3j to ij.

Tincture, f3j to ij.

Lactucarium, grs. iij. Syrup, f3ss to ij. Lauro-Cerasus, Water, f3ss to j. Leptandra, Powder, grs. xx to xxx. Liquidambar, Bark, Syrup, f 3ss to j. Liriodendron, Powder, 3ss to ij. Infusion, f \(\frac{2}{3}\)j to ij. Tincture, f3j to ij. Lithium, Carbonate, grs. iij to vj. Citrate, grs. v to x. Lobelia, Powder, grs. v to x. Tincture, f3ss to j.

Vinegar, f3ss to j. Lupulina, grs. v to x. Fluid Extract, my to x. Tincture, f3j to ij.

Macis, grs. x to 9j. Tincture, gtt. xxx to xl. Magnesia, 5j.

Magnesium, Carbonate, 9j to 3j. Citrate, Solution, f 3iv to xij. Phosphate, grs. x to xx. Sulphate, 3j.

Sulphuret, Syrup, f3ss. Magnolia, Powder, 3ss to j.

Manganesium, Carbonate, grs. x to 3j. Chloride, grs. iv to x.

Oxide, grs. ij to iv. Sulphate, 3ss to ij.

Manna, 3ss to ij. Mannite, 3ij to 3ij.

Marrubium, Extract, 9j to 3ss.

Matico, Infusion, f 3j.

Fluid extract, mx to xxx. Tincture, gtt. xxx to f3j. Syrup, f3j to ij.

Matricaria, Syrup, f 3ss to j. Mentha Piperita, Oil, gtt. j to iij.

Essence, gtt. x to xx. Water, f3ss.

Mentha Viridis, Infusion, f3j to ij. Oil, gtt. ij.

Menyanthes, Powder, grs. xx to xxx.

Infusion, f 3j to ij. Extract, grs. x to xv. Mezereum, Decoction, f 3j to iv. Monarda, Oil, gtt. j to ij.

Monesia, grs. ij to x. Syrup, f3ss. Morphia, gr. ½ to ½. Acetate, gr. & to &.

Bimeconate, gr. 4.

Morphia, Muriate, gr. ½ to ½.

Sulphate, gr. ½ to ½.

Moschus, grs. v to x.

Tincture, gtt. xxx to f3j.

Mucuna, Electuary, 3j to ij.

Myrrha, grs. x to xxx.

Tincture, f3ss to j.

Narcotina, grs. ij.

Muriate, grs. ij to iv.

Nux vomica, Powder, grs. iij to v.

Extract, Alcoholic, gr. ½ to ij.

Aqueous, gr. j to iij.

Tincture, gtt. v to xx.

Oleum Animale Empyreumatic., gtt.
v. to x.
Cajuputi, gtt. ij to v.
Morrhuæ, f 3ss to ij.
Olivæ, f 3j.
Ricini, f 3ss to j.
Terebinthinæ, gtt. v to f 3j.
Tiglii, gtt. ss to ij.
Opium, gr. j.
Confection, grs. x.

Extract, gr. ss.
Vinegar, Black drop, gtt. vij to x.
Lancaster Black drop, gtt. vj to x.
Houlton's Black drop, gtt. xx.
Rousseau's Black drop, gtt. iv.
Porter's Black Drop, gtt. v to xx.
Tincture, gtt. xxv.

acetated, gtt. xx.
deodorized, gtt. xxv.
Smith's, gtt. iij to v.
Ammoniated, f3ss to j.
Camphorated, f3j to iij.
Swediaur's, gtt. v.

Wine, gtt. xx. Opoponax, grs. x to xx.

Pancreatin, Solution, f 3ss to j. Papaver, Extract, grs. ij to v.

Tincture, gtt. 1 to 1x.

Syrup, f3ij to f3j.

Pareira Brava, Powder, grs. xxx to 3j.

Fluid Extract, f3ss to j.

Infusion, f3j to ij.

Decoction, f3j to ij.

Extract, grs. x to xx.

Paullinia, grs. x to xx.

Pepsinum, Saccharated, grs. v to xv.

Petroleum, 3ss to j.

Petroselinum, Infusion, f3ij to iv.

Phloridzinum, grs. v. to xv.

Phosphorus, gr. ¹/₁₆.

Phosphorus, Oil, gtt. v to x. Physostigma, Powder, gr. j to v. Extract, gr.  $\frac{1}{16}$  to  $\frac{1}{2}$ . Phytolacca, Powder, grs. x to xxx. Piper Nigrum, Confection, 3j to ij. Oleoresin, gtt. j to iij. Piperina, grs. ij to x. Piscidia Erythrina, Tincture, f3j. Pix liquida, 3ss to j. Platini Bichloridum, gr. 1 to 1. Plumbum, Acetate, gr. j to iv. Iodide, gr.  $\frac{1}{2}$  to j. Podophyllum, Powder, grs. x to xx. Extract, grs. v to xv. Resin, gr. 4 to j. Potassa, Solution, mx to xv. Potassium, Acetate, 3ss to ij. Arsenite, solution, gtt. x. Arseniate, gr.  $\frac{1}{10}$ . Bi-carbonate, gr. xv to xxx. Bisulphate, 3j to ij. Bitartrate, 3j to iv. Borate, gr. v to x. Boro-tartrate, 3ij to 3ss. Bromide, grs. v to xxx. Carbonate, grs. v to xx. Chlorate, grs. x to xx. Chloride,  $\ni$ j to ij. Citrate,  $\ni$ j to iij. Solution, f 3ss. Cyanide, gr.  $\frac{1}{8}$  to  $\frac{1}{4}$ . Iodide, grs. ij to xv. Iodo-hydrargyrate, gr. 12. Nitrate, grs. v to x. Silicate, grs. x to xv. Sulphate, 3iv to v. Tartrate, 3j to 3j. and Ammonium, Tartrate, 3j. and Sodium, Tartrate, 3ss to j. Prinos, Powder, grs. xxx to 3j. Decoction, f 3ij. Prunus Virginiana, Powder, grs. xxx to 3ij. Fluid Extract, f3j. Infusion, f 3ij. Syrup, f 3j to f 3j.

Quassia, Infusion, f 3j.

Extract, grs. ij to v.

Tincture, f 3j to ij.

Quercus, Powder, grs. xxx to 3j.

Extract, grs. x to xx.

Decoction, f 3j to ij.

Quinia, as a tonic, gr. j to ij.

as an anti-intermittent, grs. viij

to xx.

Quinia, Amorphous, gr. j to iv.

Acetate, gr. j to ij.

Arsenite, gr. j to ij.

Citrate, gr. j to ij.

Ferrocyanate, gr. j to ij.

Mercury and, Chloride, gr. ½.

Kinate, gr. j to ij.

Lactate, gr. j to ij.

Muriate, gr. j to ij.

Sulphate, gr. j to ij.

Valerianate, gr. j to ij.

Rheum, Powder, grs. x to xxx.
Roasted, grs. v to x.
Infusion, f \( \frac{7}{2} \) to ij.
Extract, grs. x to xx.
Fluid, mx to xxx.
Syrup, f \( \frac{7}{2} \) to f \( \frac{7}{2} \) ss.
Aromatic, f \( \frac{7}{2} \) to f \( \frac{7}{2} \) ss.
and Senna, f \( \frac{7}{2} \) to f \( \frac{7}{2} \) ss.

Wine, f 3j to iv. Rottlera, 3ss to ij. Rubia, Powder, 3ss. Decoction, f 3jj.

Rubus, Fluid extract, f3ss to j. Syrup, f3ss to j.

Ruta, Powder, grs. x to xx. Oil, gtt. ij to iij.

Sabadilla, Powder, grs. ij to v. Extract, gr.  $\frac{1}{6}$ .

Sabbatia, Infusion, f z̃ij to iv. Sabina, Powder, grs. x to xv.

Oil, gtt. ij to v.

Fluid Extract, mv to xv. Tincture, f3ss to j.

Silicin, grs. iv to vj.

Salvia, Infusion, f žij to iv.

Sanguinaria, Powder, grs. x to xx.

Tincture, f3ss to ij. Santonica, Powder, grs. x to lx.

Oleoresin, grs. v to xv. Santonin, gr. ss to v.

Sarsaparilla, Powder, 3ss to j.

Decoction, f \( \frac{3}{2} \) iv to vj. Extract, grs. x to xx.

Fluid, f3j. Syrup, f3ss to j.

Compound, f 3ss to j. Sassafras, Infusion, f 3j to ij.

Oil, gtt. ij to v.

Scammonium, Powder, grs. v to x. Confection, grs. xx to xxx.

Resin, grs. iij to viij. Scilla, Powder, gr. j to ij. Scilla, syrup, f3j.

Compound, gtt. x to f 5j. Tincture, gtt. xx to xl.

Extract, gr. ss to ij.

Vinegar, f 3ss to j. Oxymel, f 5j to ij.

Scoparius, Infusion, f 3ij to iv.

Extract, 9j to 3j.

Senega, Powder, grs. x to xx.

Infusion, f \(\frac{2}{3}\)j to ij.
Decoction, f \(\frac{2}{3}\)ss.

Fluid extract, mx to xx.

Syrup, f3j to ij.

Senna, Powder, 3ss to ij.

Confection, 3ij. Infusion, f 3iv. Syrup, f 3j to ij.

Extract, fluid, f 3ss.

Serpentaria, Powder, grs. x to xxx. Fluid extract, mx to xxx.

Infusion, f \( \frac{7}{2} \) to ij.

Tincture, f \( \frac{7}{2} \) to ij.

Simaruba, Infusion, f \( \frac{7}{2} \) ij.

Soda, solution, mx to xxx.

Sodium Chloride, grs. x to 3ss.

Arseniate, gr.  $\frac{1}{16}$  to  $\frac{1}{8}$ . Bi-carbonate, grs. xv to xxx. Borate, grs. xx to xxx.

Carbolate solution, grs. ij to v.

Carbonate, grs. x to xx.

Acetate,  $\ni j$  to  $\exists iv$ . Hyposulphite, grs. x to  $\exists j$ .

Nitrate, gr. v to x. Phosphate, 3iv to 3j. Sulphate, 3ss to j. Tartrate, 3ss to j.

and Potassium, Tartrate, 3ij to

ξj.

Valerianate, grs. ij to v.

Spigelia, Powder, 3j to ij. Infusion, f3iv to f3j.

Comp. f \( \bar{z} \)j to ij. Extract, Fluid, \( \bar{z} \)j to \( \bar{z} \)ss

Spiræa, Decoction, f 3j to ij.

Extract, grs. v to 9j. Spongia, Burnt, 3j to ij. Stannum, Powder, 3ss.

Stannum, Powder, 3ss. Chloride, grs. ij.

Sulphuret, grs. x to xx.

Oxide, grs. v to vj. Statice, grs. x to xxx.

Stillingia, as an alterative, grs. iij to v.

as an emetic,  $\ni$ j to jss. Stramonium, Powder, grs. ij to iij.

(seeds), gr. j.

Extract (seeds), gr. 4 to 12.

Stramonium, extract (leaves), gr. j.

Tincture (seeds), gtt. xx to xxx.

Strychnia, gr. 16 to 10.

Acetate, solution, gtt. v.

Iodate, gr.  $\frac{1}{8}$ . Styrax, grs. x to xx.

Succinum, Oil, gtt. v to xv.

Tincture, gtt. xl to lx. Sulphur, Precipitated, 3ss to ij.

Electuary, 3j to ij. Sulphuris Carburetum, gtt. ij to iij.

Tabacum, Wine, mx to xx.

Tincture, mx to xx.

Tanacetum, Extract, grs. v to 9j.

Oil, gtt. j to ij.
Taraxacum, Decoction, f \( \) j to iij.

Extract, 9j to 3j. Fluid, f3j.

Terebinthina, grs. ij to v. Oil, gtt. v to f 3j.

Testa præparata, grs. x to xxx.

Tolutanum, grs. x to xxx. Tincture, f3j to ij.

Syrup, f3j to f3ss.

Tormentilla, Powder, grs. xxx to 3j. Decoction, f 3j to ij.

Toxicodendron, Powder, gr. ½ to ij. Extract, gr. j.

Tussilago, Decoction, fāij to iv. Syrup, fāj to fāss.

Ulmus Campestris, Decoction, f \( \) iv.

Ulmus Fulva, Decoction, f \( \) iv to vj. Uva Ursi, Powder, \( \) j to \( \) j.

Decoction, f 3j to ij. Extract, grs. v to xxx. Fluid extract, f 3ss to j. Valeriana, Powder, 5ss to j. Electuary, 3j to ij. Infusion, f 3ij. Tincture, f 3j to iv.

Ammon. f3j to ij. Wine, f3j to iv.

Oil, gtt. ij to v. Extract, grs. ij to x.

Fluid, f 3ss to j. Vanilla, Powder, grs. v to x. Tincture, gtt. xxx to xl.

Veratria, gr.  $\frac{1}{12}$  to  $\frac{1}{6}$ . Tincture, gtt. v to x.

Veratrum Album, Powder, gr. j to

ij. Wine, m.x. Tincture, m.x.

Veratrum Viride, Powder, gr. j.

Tincture, f 3ss to j.
Norwood's, gtt. viij.

Wine, f 5ss to j. Extract, gr.  $\frac{1}{4}$  to  $\frac{1}{2}$ .

Viola Odorata, Syrup, f3j to ij.

Wintera, Powder, 3ss to j.

Zinci Oxidum, grs. ij to x.
Chloridum, Solution, gtt. v.

Tincture, gtt. v.
Cyanidum, gr.  $\frac{1}{12}$  to  $\frac{1}{4}$ .
Ferrocyanidum, gr. j.
Sulphas, gr. j to xxx.
Solution, f  $\frac{7}{3}$ ss.

Valerianas, gr. j to ij. Zingiber, Powder, grs. x to 9j.

giber, Powder, grs. x to 9j Tincture, f 3j to ij. Syrup, f 3ss. Oleoresin, gr. j to ij.

# TABLE OF PHARMACEUTICAL NAMES

#### WHICH

# DIFFER IN THE UNITED STATES, THE BRITISH, GERMAN, AND FRENCH PHARMACOPŒIAS.

U. S. Рн.	Brit. Ph.	PH. GERM.	PARIS CODEX.
Absinthium,		Herba absinthii,	Absinthe com-
		Carrie Carrier	mune.
Acacia,	Acaciæ gummi,	Gumma Arabi-	Gomme Arabi-
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		cum,	que.
Acetum destilla-	nest server	Acetum purum,	Vinaigre distillé.
tum, Acidum aceti-	Acidum aceti-	Acidum aceticum	Acide acétique.
cum,	cum,	dilutum,	rence accordact
Acidum arsenio-	Acidum arsenio-	Acidum arsenio-	Acide arsénieux.
sum,	sum,	sum,	
Acidum muriati-	Acidum hydro-	Acidum hydro-	
eum,	chloricum,	chloricum et	drique.
		hydrochlori- cum crudum,	
Acidum nitricum.	Acidumnitricum,	Acidum nitricum,	Acide azotique.
		nitricum cru-	-2010 1120114101
		dum, et fumans,	
Acidum nitro-mu-	Acidum nitro-hy-	I I make a second	-OBSE
riaticum dilut-	drochloricum		
um. Acidum sulphuri-	dilutum, Acidum sulphuri-	Tinetura aroma-	Elixir vitriolique.
cum aromati-	cum aromati-	tica acida,	Enan vicionque.
cum,	cum,	orote tiorating	
Aconiti folia,	Aconiti folia,	Folia aconiti,	Feuilles d'aconit.
Aconiti radix,	Aconiti radix,	Tubera aconiti,	Racine d'aconit.
Adeps,	Adeps præpara-	Adeps suillus,	Axonge.
Æther fortior,	tus, Æther purus,	Æther,	Ether hydrique.
Alcohol,	Spiritus rectifi-	Spiritus,	Alcool.
	catus,	,	
Alcohol dilutum,	Spiritus tenuior,	and the same of th	Tools
Aloe barbaden-	Aloe barbaden-		Aloès hépatique
sis,	sis,	Also rel also so	des Barbades.
Aloe capensis,	- COLORS CONTRACTOR	Aloe, vel aloe ca- pensis vel lu-	- periodical state
		eida,	
Aloe socotrina,	Aloe socotrina,	-	Aloès sucotrin.
Althæa,	The state of the s	Radix althææ.	Racine de gui-
40			mauve.
40			(625)

T C D-	Dave Dr	Per Const	PARIS CODEX.
	BRIT. PH.	PH. GERM.	PARIS CODEX.
Alumen, Aluminii et po-	Alumen,	Alumen,	Alun.
tassii sulphas,		Arumen,	Alun.
	Alumen exsicca-	Alumen ustum,	Alun calciné.
tum,	tum,		
Ammonii ben-	Ammoniæ ben-		
zoas,	zoas,		~
Ammonii carbo-	Ammoniæ carbo-	Ammonium car-	
Ammonii chlori-	nas, Ammonii chlori-	bonicum,	monique. Chlorure d'am-
dum,	dum,		
	Ammoniæ phos-	ratum, Ammonium phos-	
	phas,	phoricum,	
Amygdala amara,	Amygdalaamara,	Amygdalæ ama-	Amandes amères.
		ræ,	
Amygdala dulcis,	Amygdala dulcis,		Amandes douces.
Angusturo	Cuspariæ cortex,	ces,	Angusture vraie.
Angustura, Anthemis,	Anthemidis	Flores chamomil-	Camomille ro-
armonomis,	flores,	læ romanæ,	maine.
Antimonii et po-	Antimonium tar-	Tartarus stibia-	
tassii tartras,	taratum,	tus.	
Antimonii oxy-	the state of the s	Stibium sulfura-	
sulphuretum,	Authoritor of	tum rubeum,	moine hydraté. Sulfure d'anti-
Antimonii sulph- uretum,	Antimonium ni- grum,	tum lævigatum,	
Antimonium sul-	Antimonium sul-	Stibium sulfura-	mome.
phuratum,		tum auranti-	
	A SHALL BURNEY	acum,	
Aqua ammoniæ,	Liquor ammoniæ,	Liquor ammonii	
Acua ammonia	Tioner emments	caustici,	liquide.
fortior,	Liquor ammoniæ		
Aqua aurantii flo-	Aqua aurantii	Aqua florum au-	Eau destillée de
rum,	floris,	rantii,	fleurs d'oranger.
Aqua amygdalæ		Aqua amygdala-	Eau déstillée d'-
amaræ,		rum amararum	amandes am-
A	T' 11 '	dilutum,	ères.
Aqua chlorinii,	Liquor chlori,	Aqua chlorata,	Eau chlorée.
Argenti nitras,	Argenti nitras,	Argentum nitri- cum crystalli-	Azotate d'argent crystallisé.
		satum,	Ci y Starrist.
Argenti nitras		Argentum nitri-	Azotate d'argent
fusa,		cum fusum,	fondu.
Atropiæ sulphas,	Atropiæ sulphas,	Atropinum sulfu-	Sulfate d'atro-
Amantii amani	Annantii contor	ricum,	pine.
Aurantii amari cortex,	Aurantii cortex,	Cortex fructus aurantii,	Alon derbalens
COLUCA		autunuis	
Barii chloridum,	Allen, vel sleep out	Baryum chlora-	Chlorure de ba-
	and law shooty	tum,	ryum.
Benzoinum,	Benzoinum,	Benzoe,	Benjoin.
Bismuthi sub-	Bismuthi sub-	Bismuthum sub-	Sous-azotate de
nitras, Brayera,	nitras, Cusso,	ritricum, Flores kosso,	bismuth. Cousso.
Dray cra,	- usso,	10100 R0000,	Country.

U. S. PH.	BRIT. PH.	PH. GERM.	PARIS CODEX.
Brominium, Buchu,	Bromum, Buchu folia,	Bromum,	Brome. Bucco.
Cadmii sulphas,	Rescues colonyile	Cadmium sulfuri-	Sulfate de cad-
Calamus,	Salt and arrented	cum, Rhizoma calami,	mium. Acore vrai.
Calcii carbonas præcipitata,	Calcis carbonas præcipitata,	Calcaria carbon- ica præcipitata,	Carbonate de chaux.
Calcii phosphas præcipitata,	Calcis phosphas,	Calcaria phos- phorica,	Phosphate de chaux.
Calx, Calx chlorinata,	Calx, Calx chlorata,	Calcaria usta, Calcaria chlorata,	Chaux vive. Chlorure de chaux.
Calumba,	Calumbæ radix,	Radix colombo,	Colombo. Charbon végétal.
Carbo ligni, Carum,	Carbo ligni, Carui fructus,	Carbo pulveratus, Fructus carvi,	Carvi.
Caryophyllus,	Caryophyllum,	Caryophylli,	Girofle.
Catechu,	Catechu palli- dum,	Catechu,	Cachou.
Ceratum cantha- ridis,	Emplastrum can- tharidis,	Emplastrum can- tharidum ordi- narium,	Emplâtre vésica- toire.
Ceratum plumbi subacetatis,	Unguentum plumbi subace- tatis composit-	Unguentum plumbi,	Cérat de saturne.
Ceratum resinæ,	Unguentum resine,	Unguentum basi- licum,	Onguent basili-
Ceratum sabinæ,	Unguentum sabi- næ,	Unguentum sa- binæ,	-100
Cetraria,	Cetraria,	Lichen islandi-	Lichen d'Islande.
des,	Charta epispas- tica,	Look to the calls of the call of the	sloto to the same
Chiretta, Chloral,	Chirata,	Chloralum hydra-	Hydrate de chlo-
Chiorary	-Mar invanil	tum crystalli- satum,	ral.
Chloroformum purificatum,	Chloroformum,	Chloroformium,	Chloroforme.
Cinchona flava,	Cinchonæ flavæ cortex,	Cortex chinæ ca- lisayæ,	Quinquina jaune.
Cinchona pallida,	Cinchonæ pallidæ cortex,	Cortex chinæ fus-	Quinquina gris.
Cinchona rubra,	Cinchonæ rubræ	Cortex chinæ ru- ber,	Quinquina rouge.
Cinchoniæ sul- phas,	had — ozi	Cinchonium sul- furicum,	Sulfate de cincho- nine.
Cinnamomum,	Cinnamomi cortex,	Cortex cinnamo- mi cassiæ et zeylanici,	Canelle de Chine et de Ceylon.
Coccus,	Coccus,	Coccionella,	Cochenille du no-
Colchici radix,	Colchici cormus,	Ein physical	Bulbe de col- chique.

	-		
U. S. PH.	Brit. Ph.	PH. GERM.	PARIS CODEX.
Colchici semen,	Colchici semina,	Semen colchici,	Semences de col- chique.
Colocynthis,	Colocynthidis pulpa,	Fructus colocynthidis,	Coloquinte.
Confectio opii,	Confectio opii,	Electuarium the-	Electuaire thé-
Confectio rosæ,	Confectio rosæ	- Traca,	riaque. Conserve de rose
Confectio sennæ,	gallicæ, Confectio sennæ,	Electuarium e senna,	rouge. Electuaire de séné composé.
Copaiba,	Copaiba,	Balsamum copai- væ,	Copahu.
Coriandrum, Cuprum ammo- niatum,	Coriandri fructûs,	Fructûs coriandri, Cuprum sulphur- icum ammonia- tum,	Coriandre.
Cupri subacetas,	Coty Coty Octobay	Aerugo,	Acétate basique de cuivre.
Decoctum sarsa- parillæ compo- situm,	Decoctum sarsæ compositum,	Decoctum sarsa- parillæ fortius et mitius,	Tisane de salse- pareille.
Digitalis,	Digitalis folia,	Folia digitalis,	Digitale pour- prée.
Dulcamara,	Dulcamara,	Stipites dulcama- ra,	Douce-amère.
Emplastrum gal- bani composi- tum,	Emplastrum gal- bani,	Emplastrum lithargyri compositum,	Emplâtre diachy- lon gommé.
Emplastrum picis burgundicæ,	Emplastrum pi- cis,	Emplastrum picis irritans,	Emplâtre de poix de Bourgogne.
Emplastrum picis cum cantha- ride,	Emplastrum cale- faciens,	Emplastrum can- tharidum per- petuum,	And a
Emplastrum plumbi,	Emplastrum plumbi,	Emplastrum li- thargyri sim- plex,	Emplâtre simple.
Emplastrum saponis,	Emplastrum sa- ponis,	Emplastrum sa- ponatum,	Emplâtre de savon.
Ergota, Extractum cin- chonæ,	Ergota,	Secale cornutum, Extractum Chinæ fuscæ,	
Extractum gly- cyrrhizæ,	Extractum gly- cyrrhizæ,	Succus liquiritiæ crudus et depu- ratus,	Extrait de ré-
Extractum hæ- matoxyli,	Extractum hæma- toxyli,	Extractum ligni campechiani,	din minorial
Extractum kra- meriæ,	Extractum kra- meriæ,	Extractum ratan- hæ,	Extrait de ratan- hia.
Extractum nucis vomicæ,	Extractum nucis vomicæ,	Extractum strychni spiri- tuosum,	Extrait de noix
Extractum physostigmatis,	Extractum physostigmatis,	Extractum fabæ calabaricæ,	Extrait de fêves de calabar.

U. S. Ph.  Extractum stramonii foliorum, Extractum stramonii seminis,  Extractum cinchonæ fluidum,	Brit. Ph.  Extractum stramonii,  Extractum cinchonæ liquidum,	PH. GERM. Extractum stramonii,	Paris Codex.  Extrait de stramoine.  Extrait de semences de stramoine.
Extractum ergotæ fluidum, Extractum pareiræ fluidum, Extractum sarsaparillæ fluidum,	Extractum ergo- tæ liquidum, Extractum parei- ræ liquidum, Extractum sarsæ liquidum,		
Hooking dee de	Fel bovinum purificatum, Ferri carbonas saccharata,	Fel tauri depura- tum siccum, Ferrum carboni- cum sacchara- tum,	Fiel de bœuf.
Ferri chloridum, Ferri citras,	Hydrotome Shoratome	Ferrum sesqui- chloratum, Ferrum citricum	Perchlorure de fer.
Ferri et ammonii citras, Ferri et ammonii sulphas,	Ferri et ammoniæ citras,	oxydatum, Ferrum citricum ammoniatum, Ferrum sulphuri- cum oxydatum ammoniatum,	Citrate de fer et d'ammoniaque.
Ferri et potassii tartras, Ferri lactas,	Ferrum tartara-	Ferrum lacticum,	Tartrate de fer et de potasse. Lactate de fer.
Ferri oxidum hy- dratum, Ferri subcarbo- nas, Ferri phosphas,	Ferri peroxidum humidum, Ferri peroxidum hydratum, Ferri phosphas,	Antidotum arsenici, Ferrum oxydatum fuscum, Ferrum phosphoricum,	Sesquioxide de fer humide. Sesquioxide de fer hydraté. Phosphate de fer.
Ferri pyrophos- phas,	- na ca	Ferrum pyro- phosphoricum cum ammonio citrico,	Pyrophosphate de fer citro-am- moniacal.
Ferri sulphas,	Ferri sulphas et	Ferrum sulphuri-	Sulphate de fer.
Ferri sulphas ex- siccata, Ficus, Filix mas,	granulata, Ferri sulphas ex- siccata, Ficus, Filix mas,	cum purum, Ferrum sulphuri- cum siccum, Caricæ, Rhizoma filicis,	Sulphate de fer desséché. Figue. Fougère mâle.
Fæniculum,	Fœniculi fructus,	Fructus fæniculi,	Fenouil.
Gambogia, Gentiana, Glycerina, Glyceritum acidi carbolici,	Cambogia, Gentianæ radix, Glycerinum, Glycerinum acidi carbolici,	Gutti, Radix gentianæ, Glycerinum,	Gutte. Gentiane. Glycérine.

U. S. PH.	Вкіт. Рн.	PH. GERM.	PARIS CODEX.
Glyceritum acidi	Glycerinum acidi		
gallici, Glyceritum acidi	gallici, Glycerinum acidi	man and the	Glycéré de tan-
tannici,	tannici, Glycerinum amy-	Unguentum gly-	nin. Glycéré d'ami-
Glyceritum sodii	li, Glycerinum bo-	cerini,	don.
boratis, Glycyrrhiza,	racis, Glycyrrhizæ ra-	Radix liquiritiæ	Réglisse.
Grycyrrinza,	dix,	glabræ et mun-	regusse.
		data,	mubiud orf
Hæmatoxylon,	Hæmatoxyli lig- num,	Lignum Campe- chianum,	Bois de Campê- che.
Hordeum,	Hordeum decor- ticatum,	est alegated by	Orge perlé.
Humulus, Hydrargyri chlo-	Lupulus, Hydrargyri per-	Hydrargyrum bi-	Houblon. Deutochlorure de
ridum corrosi-	chloridum,	chloratum cor- rosivum,	mercure.
yum, Hydrargyri chlo-	Hydrargyri sub-	Hydrargyrum	Protochlorure de
ridum mite,	chloridum,	chloratum mite, et vapore	mercure.
Hydrargyri iodi-	Hydrargyri iodi-	paratum, Hydrargyrum bi-	Bi-iodure de mer-
dum rubrum,	dum rubrum,	iodatum ru- brum,	cure.
Hydrargyri iodi- dum viride,	Hydrargyri iodi- dum viride,	Hydrargyrum iodatum fla-	Protoiodure de mercure.
Landskelmiel	dum viride,	vum,	mercure.
Hydrargyri oxi- dum flavum,	Evryton Indiana,	Hydrargyrum oxydatum via	Persidential
alimototai	Signal and	humida para- tum,	destana
Hydrargyri oxi- dum rubrum,	Hydrargyri oxi- dum rubrum,	Hydrargyrum oxydatum ru- brum,	Peroxyde de mer- cure.
Hydrargyri sul- phuretum ru- brum,	Accept to some of the control of the	Hydrargyrum sulfuratum ru- brum,	Sulfure rouge de mercure.
Hydrargyrum	Hydrargyrum	Hydrargyrum	
ammoniatum,	ammoniatum,	præcipitatum album,	
Infusum angus- turæ,	Infusum angus-	*22 10 <u>2010 000</u>	Perilada ex-
Infusum humuli,	turæ, Infusum lupuli,		Tisane de hou- blon.
Infusum lini compositum,	Infusum lini,	Pontall Rooms,	DIOII.
Infusum rosæ compositum,	Infusum rosæ acidum,	colling and limb	Gentlana
Infusum tabaci, Inula,	Enema tabaci,	Radix helenii,	Aunée.
Iodinium,	Iodum,	Iodum,	Iode.

U. S. PH. Iodoformum, Iris florentina,	Brit. Ph.	PH. GERM. Iodoformium, Rhizoma iridis,	Paris Codex. Iodoforme. Iris de Florence.
Jalapa, Juniperus,	Jalapa,	Tubera jalapæ, Fructus juniperi,	Jalap. Genièvre.
Krameria,	Krameriæ radix,	Radix ratanhæ,	Ratanhia.
Lappa, Limonis cortex,	Limonis cortex,	Radix bardanæ, Cortex fructus citri,	Bardane. Zeste de citron.
Linum, Linimentum am- moniæ, Linimentum cam-	Lini semina, Linimentum am- moniæ, Linimentum cam- phoræ,	Semen lini, Linimentum am- moniatum, Oleum camphora- tum,	niacal.
phoræ,	Linimentum cam- phoræ compo-	Linimentum am- moniato-cam-	Manufaction of
Linimentum saponis,	situm, Linimentum sa- ponis,	phoratum, Linimentum saponato-cam- phoratum liqui- dum,	Liniment savon- neux camphrée.
Liquor ammonii acetatis,	Liquor ammoniæ acetatis, Liquor antimonii chloridi,	Liquor ammonii acetici, Liquor stibii chlo- rati,	Acétate d'ammo- niaque liquide.
Liquor arsenici	Liquor arsenici	Mexical Sections	Net to be seen and the Management of the Managem
Liquor calcis, Liquor ferri chlo- ridi,	Liquor calcis, Liquor ferri per- chloridi, et for- tior,	Aqua calcariæ, Liquor ferri ses- quichlorati,	Eau de chaux. Solution de per- chlorure de fer.
Liquor ferri nitra- tis,	Liquor ferri per- nitratis,	Mangalan Bakan	-
Liquor ferri ter- sulphatis, Liquor hydrar- gyri nitratis,	Liquor ferri per- sulphatis, Liquor hydrar- gyri nitratis	Liquor ferri sul- furici oxydati,	Nitrate de mer- cure liquide.
Liquor iodinii	acidus, Liquor iodi,	The same of the	
compositus, Liquor plumbi subacetatis,	Liquor plumbi subacetatis,	Liquor plumbi subacetici,	Acétate de plomb liquide.
Liquor plumbi subacetatis di- lutus,	Liquor plumbi dilutus,	Aqua plumbi, et Aqua plumbi Goulardi,	Eau de Goulard.
Liquor potassæ,	Liquor potassæ,	Liquor kali cau- stici,	Potasse caustique liquide.
Liquor potassii arsenitis,	Liquor arseni-	Liquor kali ar- senicosi,	Liqueur arséni- cale (Fowler).
Liquor sodæ,	Liquor sodæ,	Liquor natri cau- stici,	Soude caustique liquide.
Liquor sodæ chlo- rinatæ,	Liquor sodæ chloratæ,	Liquor natri chlo- rati,	Liqueur de La- barraque.

U. S. PH. Liquor sodii ar-	Brit. Ph. Liquor sodæ ar-	PH. GERM.	Paris Codex. Liqueur arséni-
seniatis, Lithii carbonas,	seniatis,	Lithium carboni-	cale (Pearson).
	Lotio hydrargyri flava,	Aqua phagedæ- nica,	——
- Call	Lotio hydrargyri nigra,	Aqua phagedæ- nica nigra,	Zinipini Z
Magnesia,	Magnesia, et mag- nesia levis,	Magnesia usta,	Magnésie.
Magnesii carbon- as,	Magnesiæ carbon- as et carbonas levis,	Magnesia car- bonica,	Carbonate de magnésie.
Magnesii sulphas,	Magnesiæ sul- phas,	Magnesia sulfurica,	Sulfate de mag- nésie.
Manganesii oxi- dum nigrum, Maranta,	Manganesii oxi- dum nigrum,	Manganum hy- peroxydatum, Amylum maran-	Oxyde de manga- nése.
Mastiche, Matico,	Mastiche, Maticæ folia,	tæ, Mastix,	Mastic.
Matricaria,		Flores chamomil- læ vulgaris,	Camomille com- mune.
Mel despumatum, Mel rosæ,	Mel depuratum,	Mel depuratum, Mel rosatum,	Mellite simple.  Mellite de roses rouges.
Mel sodii boratis, Mezereum, Mistura assafœ- tida,	Mel boracis, Mezerei cortex, Enema assafœtidæ,	Cortex mezerei,	Mézéréon.
Morphia, Morphiæ acetas,	Morphiæ acetas,	Morphinum, Morphinum aceti- cum,	Morphine.  Acétate de morphine.
Morphiæ murias,	Morphiæ hydro- chloras,	Morphinum hy- drochloricum,	Chlorhydrate de morphine.
Morphiæ sulphas,		Morphinum sul- furicum,	Sulfate de mor- phine.
Mucilago acaciæ,	Mucilago acaciæ,	Mucilago gummi arabici,	-
Myristica,	Myristica,	Semen myristicæ,	Noix vomique.
Nux vomica,	Nux vomica,	Semen strychni,	Noix vomique.
Oleoresina cube- bæ,		Extractum cube-	Hada da faraba
Oleoresina filicis,	Extractum filicis liquidum,	Extractum filicis,	Huile de fougère mâle.
Oleum amygdalæ expressum,	Oleum amygda- læ,	Oleum amygdala- rum,	Huile d'amandes douces.
Oleum bergamii,	- Date of the control of T	Oleum bergamot- tæ,	Huile volatile de bergamote.
Oleum cajuputi,	Oleum cajuputi,	Oleum cajeputi,	Huile volatile de cajeput.

U. S. Рн.	Brit. Ph.	PH. GERM.	PARIS CODEX.
Oleum cari,	Oleum carui,	Oleum carvi,	Huile volatile de carvi.
Oleum einnamo- mi,	Oleum cinnamo- mi,	Oleum cinnamo- mi cassiæ et zeylanici.	Huile volatile de canelle.
Oleum limonis,	Oleum limonis,	Oleum citri,	Huile volatile de citron.
Oleum menthæ viridis,	Oleum menthæ viridis,	Oleum menthæ	Huile volatile de menthe crépue.
Oleum morrhuæ,	Oleum morrhuæ,	Oleum jecoris aselli,	
Permulastration day	Oleum myristicæ expressum,	Oleum myristicæ,	Pocces for growing
Oleum olivæ, Oleum theobro- mæ,	Oleum olivæ, Oleum theobro- mæ,	Oleum olivarum, Oleum cacao,	Huile d'olive. Beurre de cacao.
Oleum tiglii, Ovum,	Oleum crotonis, Ovi vitellus,	Oleum crotonis,	Huile de croton.
Physostigma,	Physostigmatis faba,	Faba calabarica,	Féve de calabar.
Pilulæ aloës,	Pilula aloes bar- badensis et so-	Park de de la company	Pilules d'aloès.
	cotrina, Pilula aloes et ferri,	Pilulæ aloeticæ ferratæ,	Manager Colores
Pilulæ antimonii compositæ,	Pilula hydrargyri subchloridi composita,	-munocompletion of the	Talva lacasima-
Pilulæ galbani compositæ,	Pilula assafætida composita,	Pal Series	-uno de la centra
Pilula ferri carbo- natis,	Pilula ferri carbo- natis,	Pilulæ ferri car- bonici,	Pilules de carbo- nate ferreux.
Piper, Plumbi acetas,	Piper nigrum, Plumbi acetas,	Plumbum aceti-	Poivre noir. Acétate de plomb
Plumbi carbonas,	Plumbi carbonas,	cum, Cerussa,	crystallisé. Carbonate de plomb.—Cé-ruse.
Plumbi iodidum,	Plumbi iodidum,	Plumbum ioda- tum,	Iodure de plomb.
Plumbi oxidum, Potassa,	Plumbi oxidum, Potassa caustica,	Lithargyrum, Kali causticum fusum,	Litharge. Potasse caustique.
Potassii acetas,	Potassæ acetas,	Kali aceticum,	Acétate de po-
Potassii bicarbo- nas,	Potassæ bicarbo- nas,	Kali bicarboni-	Bicarbonate de potasse.
Potassii bitar- tras,	Potassæ tartras acida,	Tartarus depura-	Bitartrate de po-
Potassii bromi- dum,	Potassii bromi- dum,	Kalium broma- tum,	Bromure de po- tassium.
Potassii carbonas impurus,	Plants stands	Kali carbonicum crudum,	Potasse impure.

	_		
U. S. PH.	Brit. Ph.	PH. GERM.	PARIS CODEX.
Potassii carbo-	Potassæ carbo-	Kali carbonicum	Carbonate de po-
nas,	nas,	depuratum,	tasse.
Potassii carbonas	VOLUME TO A STATE OF THE PARTY	Kali carbonicum	-0.10
pura,	7	purum,	011
Potassii chloras,	Potassæ chloras,	Kali chloricum,	Chlorate de po-
Potassii ferrocya-	Potassæ prussias	Kalium ferrocya-	tasse. Cyanure de fer et
nidum,	flava,	natum,	de potassium.
Potassii iodidum,	Potassii iodidum,	Kalium iodatum,	Iodure de potas-
on slokes of all 12	Charles Vincenty	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	sium.
Potassii nitras,	Potassæ nitras,	Kali nitricum,	Azotate de po-
D	D	T7 1: 1	tasse.
Potassii perman-	Potassæ perman-	Kali hyperman-	Pamanganate de
ganas,	ganas,	ganicum crys- tallisatum,	potasse.
Potassii sulphas,	Potassæ sulphas,	Kali sulfuricum,	Sulfate de po-
z omosii surpino,	z ottosto stapino,	2200	tasse.
		Kalium sulfura-	
Potassii sulphu-		tum,	Sulfure de po-
retum,	rata,	Kalium sulfurat-	tasse.
Detect!! tentuca	Dotosam tantnas	um ad balneum.	Toutuata da na
rotassii tartras,	Potassæ tartras,	Kali tartaricum,	Tartrate de po- tasse.
Potassii et sodii	Soda tartarata,	Tartarus natro-	Sel de seigrette.
tartras,		natus,	are are greater
Pulvis aromati-	Pulvis cinnamo-	Pulvis aromati-	
cus,	mi compositus,	eus,	anionities education
Pulvis ipecacuan-	Pulvis ipecacuan-		Poudre de Dower.
hæ compositus, Pulvis rhei com-	hæ compositus, Pulvis rhei com-	hæ opiatus, Pulvis magnesiæ	
positus,	positus,	cum rheo,	1
Pulveres efferves-	Positive		Poudre gazeuse
centes,		rus anglicus,	simple.
Pulveres efferves-		Pulvis aëropho-	Poudre gazifère
centes aperien-		rus laxans,	purgative.
tes,			
Quercus alba et	Quercus cortex,	Cortex quercus,	Écorce de chêne.
Q. tinctoria,	Quercus cortex,	Cortex quercus,	Ecorce de chene.
Quiniæ sulphas,	Quiniæ sulphas,	Chininum sulfu-	Sulfate de qui-
. ,	STORE AMOUNT	ricum,	nine.
- iditerran-	(marygralls)	amulika Umatt.	Consideration Identification
Resina,	Resina,	Colophonium,	Colophane.
Rheum,	Rhei radix,	Radix rhei, Kamala,	Rhubarbe. Kamala.
Rottlera, Rosa centifolia,	Kamala, Rosæ centifoliæ	Flores rosæ,	Rose à cent feu-
2100th Continuity	petala,	21010010000	illes.
Rosa gallica,	Rosæ gallicæ pe-		Rose rouge.
SHE SHOW AND REAL PROPERTY.	tala,		Total Denot
0 1	01	0-1	Q
Saccharum,	Saccharum purifi-	Saccharum,	Sucre.
Sambueus,	Sambuci flores,	Flores sambuci,	Fleurs de sureau.
Santonica,	Santonica,	Flores cinæ,	Semen contra.
,	,	,	

	_	<b>-</b>	
U. S. Рн.	Brit. Ph.	PH. GERM.	PARIS CODEX.
Sapo,	Sapo durus,	(Sapo oleaceus,	Savon amygdalin.
Sarsaparilla,	Sapo mollis, Sarsæ radix,	Sapo viridis, Radix sarsaparil-	Savon vert. Salsepareille.
Sassafras	Sassafras radix,	læ, Lignum sassa-	Bois de sassafras.
Scilla, Senegæ,	Scilla, Senegæ radix,	fras, Bulbus scillæ, Radix senegæ,	Seille. Polygale de Vir-
Senna,	Senna Alexandri-	Folia sennæ,	ginie. Sené.
Serpentaria,	na et Indica, Serpentariæ ra-	Radix serpenta-	Serpentaire.
Sinapis alba,	dix, Sinapis,	riæ, Semen sinapis,	Montarde
Sinapis nigra,		-nouse constant	blanche et noire.
Soda, Sodii acetas,	Soda caustica, Sodæ acetas,	Natrum aceti-	Acétate de soude.
Sodii arsenias,	Sodæ arsenias,	cum,	Arséniate de soude.
Sodii bicarbonas venalis,	- Sodæ bicarbonas,	Natrum bicarbo- nicum,	Bicarbonate de soude.
Sodii bicarbonas, ) Sodii boras, Sodii carbonas,	Borax, Sodæ carbonas,	Borax, Natrum carboni- cum crudum et	Borate de soude. Carbonate de soude.
Sodii carbonas	Sodæ carbonas	purum, Natrum carboni-	, Saldion mutout
exsiccata, Sodii nitras,	exsiccata, Sodæ nitras,	eum siceum, Natrum nitrieum,	Azotate de soude.
Sodii phosphas,		Natrum phospho- ricum,	
Sodii sulphas,	Sodæ sulphas,		Sulfate de soude.
Spiritus ætheris compositus,	Spiritus ætheris,		Ether hydrique alcoolisé.
Spiritus cam- phoræ,	Spiritus cam- phoræ,	Spiritus cam- phoratus,	Alcoolé de cam- phre concentré, et faible.
Spiritus lavandu- læ compositus,	Tinetura lavan- dulæ compo- sita,	Proposition.	et laroie.
Strychnia, Styrax,	Strychnia,	Strychninum, Styrax liquidus,	Strychnine. Styrax liquide.
Sulphur lotum,		Sulfur depura-	Soufre lavé.
Sulphuris iodi- dum,	Sulphuris iodi- dum,		Iodure de soufre.
Suppositoria plumbi et opii,	Suppositoria plumbi compo- sita,	Market Laboratory	
Syrupus,	Syrupus,	Syrupus simplex,	Sirop de sucre.

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U. S. Рн.	Brit. Ph.	PH. GERM.	PARIS CODEX.
Syrupus acaciæ,	Tuling Control of	Syrupus gummo-	Sirop de gomme.
	Margaria Canal	sus.	
Syrupus fuscus,	Theriaca,	The state of the s	Mélasse.
and the second second	direction exists	Samonal Services	
Tamarindus,	Tamarindus,	Pulpa tamarindo-	
		rum cruda et	
		depurata,	
TD	Managari madin	Radix taraxaci,	Di114
Taraxacum,	Taraxaci radix,	Radix taraxaci cum herba,	Pisseniit.
Tinetura aconiti	Tinetura aconiti,	Tinetura aconiti,	Teinture d'aconit.
radicis,	I mount acome,	Timeouru acomoi,	Tomoure a acomo.
Tinctura aloës et	Colors	Elixir proprieta-	Charles and Spirit
myrrhæ,		tis Paracelsi,	
Tinctura ben-		Tinctura benzoes,	Teinture de ben-
zoini,			join.
Tinctura canna-	Tinetura canna-	Tinctura canna-	Teinture de chan-
bis,	bis indicæ,	bis indicæ,	vre indien.
Tinctura canthar-	Tinctura canthar-	Tinetura canthar-	Teinture de can-
idis,	idis,	idum,	tharides.
		Tinctura castorei	Tointuna do ona
Tinctura castorei,	Tinctura castorei,	canadensis, Tinctura castorei	Teinture de cas- toréum.
	-odreold mornal	sibirici,	toreum.
Tinctura cincho-	Tinctura cincho-	Tinctura Chinæ,	Teinture de quin-
næ,	næ flavæ,		quina.
Tinctura cincho-	Tinetura cincho-	Tinctura Chinæ	Soll Land Hold
næ composita,	næ composita,	composita,	
Tinctura colchici,	Tinetura colchici	Tinctura colchici,	Teinture de se-
	seminum,		mences de col-
m: ,	m: ,	m: , o .	chique.
Tinctura ferri	Tincturi ferri per-	Tinctura ferri	
chloridi, Tinctura gallæ,	chloridi,	chlorati, Tinctura galla-	Teinture de noix
Timetura ganæ,	Tinctura gallæ,	rum,	de galle.
Tinctura humuli,	Tinctura lupuli,	Tuin,	Teinture de houb-
Tincoura numuri,	Timetara rapan,		lon.
Tinctura iodinii,	Tinetura iodi,	Tinctura iodi,	Teinture d'iode.
Tinctura krame-	Tinctura krame-	Tinctura ratan-	Teinture de ra-
riæ,	riæ,	hæ,	tanhia.
Tinetura nucis	Tinctura nucis	Tinctura strych-	Teinture de noix
vomicæ,	vomicæ,	ni,	vomique.
Tinctura opii,	Tinetura opii,	Tinctura opii	Teinture d'opium.
Tinoture onii	Tinetura cam-	simplex,	Taintura dianium
Tinetura opii camphorata,	Tinctura cam- phoræ compo-	Tinctura opii ben- zoica.	Teinture d'opium camphrée.
campuorata,	sita,	2010	campuree.
Trochisci glycyr-	Trochisci opii,		Kolstania Landello Paris
rhizæ et opii,	P		
Trochisci sodii bi-	Trochisci sodæ	Trochisci natri	Pastilles de bi-
carbonatis,	bicarbonatis,	bicarbonici,	carbonate de
27	-		soude.
T.	TT	TT	(0/
Unguentum,	Unguentum sim-		Cérat simple,
	plex,	reum,	Cérat jaune.

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U. S. PH.	Brit. Ph.	PH. GERM.	PARIS CODEX.
	Unguentum anti-	Unguentum tar-	Pommade stibiée.
monii,	monii tartarati,	tari stibiati,	Cérat cosmétique.
Unguentum aquæ	Manay Hall	ens,	Cerat cosmetique.
Unguentum ben-	Adeps benzoatus,	Cho,	
zoini,	Sill Sill Sill Sill Sill Sill Sill Sill		
Unguentum can-	Unguentum can-	Unguentum can-	AND THE PARTY OF T
tharidis,	tharidis,	tharidum,	D 1
Unguentum hy-		Unguentum hy-	Pommade mer- curielle.
drargyri,	drargyri,	drargyri cine- reum,	curiene.
Unguentum hy-	Unguentum hy-		with the state of
drargyri am-	drargyri am-	drargyri præ-	
moniati,	moniati,	cipitati albi,	
TT 1	TT		Pommade de pré-
	Unguentum hy-		cipité rouge.
drargyri oxidi rubri et flavi,	drargyri oxidi - rubri,	Unguentum oph-	
ruori co navi,	14011,	thalmicum,	
Unguentum iodi-	Unguentum iodi,		
nii composi-			
tum,	TT .	TT	D 1 1
Unguentum plumbi carbon-	Unguentum plumbi carbon-	Unguentum ce- russæ,	Pommade de car- bonate de
atis,	atis,	russæ,	plomb.
Unguentum po-		Unguentum kalii	
tassii iodidi,	tassii iodidi,	iodati,	rée.
Unguentum sul-		Unguentum sul-	Pommade sou-
phuris,	phuris,	furatum sim-	frée.
Unquentum zinci	Unquentum zinci	plex, Unguentum zinci,	Pommade d'ox-
oxidi,	o nguentum zinci,	enguentum zinci,	yde de zinc.
Uva passa,	Uvæ,		
Uva ursi,	Uvæ ursi folio,	Folia uvæ ursi,	Busserole.
W		D1:	T111 (1 11
Veratrum album, Veratrum viride,	Veratri viridis	Rhizoma veratri,	Ellébore blanc.
veratrum viride,	radix,	TOTAL PROPERTY OF THE PARTY OF	
Vinum antimonii,		Vinum stibiatum,	Vin antimonié.
	ale,		
Vinum colchici	Vinum colchici,		
radicis,		Tr	The state of the s
Vinum colchici seminis,	The second second	Vinum colchici,	
Vinum opii,	Vinum opii,	Tinetura opii cro-	Vin d'opium com-
,	P,	cata,	posé.
Vinum rhei,	Vinum rhei.	Tinctura rhei vi-	Vin de rhubarbe.
T7.		nosa,	
Vinum xericum,	Vinum xericum,	Vinum xerense,	Marian Company
Zinci acetas,	Zinci acetas,	Zincum aceticum,	Acétate de zinc.
Zinci carbonas	Zinci carbonas,	Zincum accucum,	Carbonate de
præcipitata,			zinc.
Zinci chloridum,	Zinci chloridum,	Zincum chlora-	Chlorure de zinc.
		tum,	

## 638 TABLE OF PHARMACEUTICAL NAMES.

U. S. Рн.	Brit. Ph.	PH. GERM.	PARIS CODEX.
Zinci oxidum,	Zinci oxidum,	Zincum oxyda- tum purum,	Oxyde de zinc.
Zinci oxidum ve-	shell - root	Zincum oxyda- tum venale,	STATE OF THE PARTY
Zinci sulphas,	Zinci sulphas,	Zincum sulfuri- cum,	Sulfate de zinc.
Zinci valerianas,	Zinci valerianas,	Zincum valeriani- cum,	Valérianate de zinc.
Zingiber,	Zingiber,	Rhizoma zingi- beris,	Gingembre.

Note.—All the names in the Paris Codex are given in the French, in the other pharmacopæias in the Latin language.

# OFFICINAL PREPARATIONS AND DIRECTIONS.

#### INTERNAL REMEDIES.

Powders.—These are of two kinds: simple and compound. The first are prepared by pulverization; and the second by the mixture of two or more simple powders, except where one of the ingredients is employed to facilitate the more minute division of the others, as in the case of the powder of ipecacuanha and opium. Many of the most important articles used in this form are powdered by grinding and stamping, by persons who make it a special business. When this operation is performed by the apothecary or medical practitioner, it is most frequently accomplished by means of the pestle and mortar and the sieve: but in some cases, a stone slab and muller are required; whilst in others, the article is merely rubbed through a sieve. Whenever a substance cannot be dried completely without an alteration of its properties, recourse must be had to an intermedium, by which the moisture may be absorbed, or its state of aggregation modified. Thus, sugar is the best intermedium in pulverizing vanilla or nutmeg. When camphor is to be pulverized, the addition of a small quantity of alcohol will much facilitate the operation. In other cases, the intermedium should be of so hard a consistence as to assist in breaking down the substance to be pulverized; thus, gold-leaf is best reduced to powder by rubbing it with sulphate of potassium, and afterwards removing this latter by means of water.

The rules to be observed in the preparation of powders are:-

1. Operate, if possible, on perfectly dry articles, and in dry weather.

2. Adapt the nature of the mortar, and the mode of operating, to the nature of the substance: thus, woods and barks should be pulverized in an iron mortar; sugar, alum, and nitre, in one of marble; corrosive sublimate in one of glass.

3. The mortar should be provided with a cover to prevent particles from being forced out by the action of the pestle, and also to arrest the escape of the finer particles, which would otherwise be diffused through the atmosphere, causing a loss of the product, and an annoyance to the operator.

4. Separate, from time to time, by aid of a sieve, the pulverized portions, returning the coarser particles to the mortar; and repeat this alternate pul-

verization and sifting until the process is completed.

Compound Powders.—1. Each substance is to be pulverized separately, and the quantity ordered in the prescription then weighed off; otherwise, the due proportions will not be maintained.

2. Pulverize soft substances with those which are the reverse, which will

thus serve as an intermedium.

3. Pass all the substances through the same sieve, as this will render them

more homogeneous, and will also prevent unnecessary loss.

Some substances, however well dried, are reduced to powder with great difficulty by the usual modes of pulverization; as, for instance, nux vomica and jalap, which require to be exposed to the steam of boiling water for some time, and then rapidly dried.

(639)

Few articles, except those containing volatile constituents, are deteriorated in their properties by being pulverized. Some, on the contrary, become more active by this process, from their less active portions being separated; for instance, the powder of ipecacuanha, if properly prepared, and the ligneous part rejected, is far stronger than the root—all the efficient properties existing in the cortical portion.

Some other processes are employed to obtain certain powders: viz. Preci-

pitation, elutriation, and granulation.

Precipitation.—Tartar emetic is obtained in a perfectly fine powder, by precipitation from a concentrated aqueous solution by means of alcohol; so, also, the precipitated carbonate of calcium is prepared by the action of a solution of carbonate of sodium on the solution of chloride of calcium.

Elutriation.—This is a method by which the finer particles of a powder are separated from the coarser. It is performed by diffusing the powder through water, permitting the heavier portions to subside, then withdrawing the fluid, holding the finer particles in suspension, into another vessel, and allowing them to subside. This process is employed in making prepared chalk, etc.

Granulation.—This is used to obtain certain metals in a finely divided

state; as zinc, tin, iron, etc.

Zinc is granulated either coarsely or finely; the first form is procured by melting the metal in an iron ladle, and pouring it slowly, in a fine stream, into cold water; the fine powder is obtained by rubbing the melted metal in an iron mortar. This metal loses its ductile properties at about 400°, and becomes so brittle as to be pulverized without difficulty. It does not melt, except at a temperature of 773°, so that the melting is many degrees above its brittle point; hence, by beginning the trituration at the melting point, it gradually reaches that at which it is most readily pulverized. The mortar should be thick and well heated before the fluid metal is poured into it. After being granulated, it should be properly sifted.

The granulation of tin may be effected in the same manner; but a more common mode is to pour the melted metal into a strong wooden box, provided with a closely-fitting lid, and agitating till the tin is cold; by this means, it is rapidly converted into powder and small grains, which can be

separated from each other by elutriation or sifting.

Iron is granulated by filing, or by means of a pestle and mortar (see page 278); but the best means to procure metallic iron in a finely-divided state is by reducing it from the state of the carbonate by means of hydrogen gas

(see page 278).

Salts are likewise often granulated, either because, like sal ammoniac, they are very difficult to powder in the condition in which they are usually found in commerce, or, like nitrate of potassium and sulphate of iron, they are apt to retain much of the mother-liquor if crystallized, or the weighing of small quantities is facilitated, as in the case of nitrate of silver, or else they crystallize with difficulty, and are then very deliquescent, like acetate and citrate of potassium. The granulation is effected by making a hot saturated solution of the salt, filtering, if necessary, while hot, and stirring the filtered liquid frequently until quite cool. Deliquescent salts, or such as are very freely soluble in water, like nitrate of silver, must be obtained in solution in distilled water, which is then evaporated, and when the salt begins to separate, the syrupy liquid is continually stirred, heat being applied all the time, until finally a dry powder remains behind.

The granulation of medicines has been proposed by Dr. Thomas Skinner, who describes the method of preparing the granules as follows (Amer. Journ.

Pharm., 1862, p. 324):-

"The first step is to procure the material of good quality. The powders

need not be very fine in order to form granules, hence sifted ground powders

may be used.

"1. Making the Mass.—The powder, however obtained, is put into a wedge-wood mortar, and sufficient mucilage of gum Arabic is added to make a mass of so dry a consistence that it will readily crumble, and not be adhesive when rubbed against a coarse sieve, a condition soon learned by practice. The powder may also be made into a stiff paste, rolled into flat thin cakes, dried at a low temperature, and coarsely powdered or bruised in a mortar.

"2. Granulating and Sifting.—The process requires three sieves of the sizes of twelve, fifteen, and twenty meshes to the linear inch, and these are to be fitted together like a drum sieve, the coarsest being at the top, the finest at the bottom. The mass is now rubbed through the top sieve with the open hand, the sieves are then shaken as in ordinary sifting. The second sieve will retain the larger granules, the lower sieve the finer, whilst the pulverulent particles pass through below, and may again be treated after being damped in the manner as before. When the mass is formed into cakes and bruised, it is sifted in the same way, the finest particles being

worked over again.

"3. Drying, Coating, and Water-proofing the Granules.—The granules by the first process are spread on paper and occasionally stirred till dry, or if the process is not injurious to some ingredient they may be dried in a metallic pan subjected to a moderate heat, with constant stirring, or more speedily in a current of dry hot air with occasional stirring. When perfectly dry they are placed in a mortar, or capsule of convenient size, and a sufficient quantity of strong tincture of tolu (3iij to f3j) in which any flavor desired has been dissolved, and stirred until the entire mass of granules appear to be equally coated and glossy, when they are again subjected to the drying process with constant stirring.

"Granules well prepared in this manner are compact, and to some extent insoluble in cold water; a desideratum, as they may be conveniently administered in that vehicle, without imparting to the water the slightest taste, smell, or color. The proportion of gum in these granules on an average is one-sixteenth, and that of the tolu too small to estimate, so that in calcu-

lating doses, but little abatement need be made for these excipients."

Granular effervescing salts have been used for some years past, many being made now in imitation of the composition of celebrated mineral springs. The effervescence is produced by bicarbonate of sodium, and either tartaric or citric acid, or both. The ingredients are first thoroughly dried, powdered separately, and then mixed; one-third to one-half their weight of powdered sugar is added, and when the whole is well mixed together, a sufficient quantity of alcohol is added to produce a mass that will crumble, which is then rubbed lightly through a No. 8 sieve, and rapidly dried upon trays placed in a warm room, after which the fine powder is removed by a suitable sieve, or the powder and granules are separated by sieves of different degrees of fineness, so as to present a uniform appearance. If skilfully prepared, these granules are uniform in composition, and dissolve readily in water, forming a pleasant effervescing drink.

PILLS AND BOLUSES.—Pills are small globular masses, of a semi-solid consistence, of the weight of half a grain to six grains, having as a base a powdery extract, etc., and rendered of the proper consistence by a syrup, pulp, etc. A bolus differs from a pill merely in being much larger, and generally less solid, weighing from six to twelve grains, and even more.

No form of medicinal agents is more frequently employed than that of the pill; not only because of the facility with which it is administered, and its

comparatively little taste, but because this form answers so excellent a pur-

pose in the preservation of certain compounds.

The article, or articles, to be administered in this mode, should first be formed into a consistent, moderately-firm mass—sufficiently plastic to admit of its being moulded into shape, without adhesion to the moulding instrument, and yet of so firm a consistence as to retain the form given to it. To accomplish this, the following rules must be attended to:—

1. All the constituents, which can be pulverized, must be reduced to the

state of a fine powder, and then thoroughly mixed together.

2. If soft ingredients enter into the composition they must be triturated with the harder articles, which thus serve as an intermedium.

No deliquescent salt should enter into the composition of officinal pills;

otherwise they will become altered and decomposed.

4. The nature of the excipient should be suited to that of the constituents: thus, syrups are to be used for most vegetable powders; soap for fatty matters; calcined magnesia for copaiba and turpentine. In some cases, no excipient is required, as for most of the gum resins. Extracts can rarely be made into pills without the addition of some vegetable powder; even if they are of a firm consistence, extracts are usually hygroscopic, or part with the moisture contained in them so slowly, that pills made of such preparations alone will generally lose their globular shape when kept on hand for several

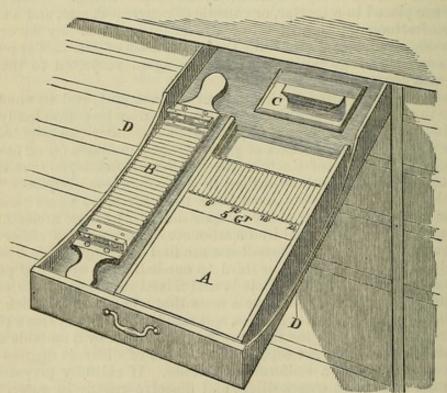


Fig. 11.

COUNTER DRAWER CONTAINING A PILL-MACHINE,
A, Pill-machine. B. Pill-cutter. C. Roller. D. D. Sides of the drawer.

days. Salts which are easily soluble dissolve in the water contained in the extracts, and if the latter be soft and are prescribed in sufficient quantity with the former, the mass will liquefy, requiring then a considerable quantity of vegetable powder for forming a mass of good pilular consistence. Mucilage, which is often ordered in the formation of various pills, is only suited to those which are to be used in a short time after they are made; but is not

suited to such as are to be kept, because pills, into which it enters as an excipient, become so hard as to pass through the bowels almost unaltered.

5. The excipient should be gradually added, and the mass beaten and

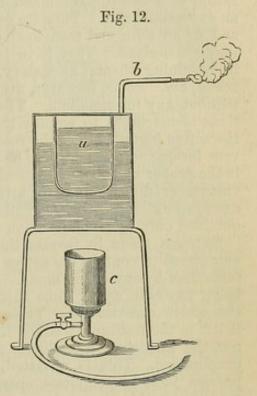
triturated till it is perfectly homogeneous.

6. When the pilular mass is properly made, the next operation consists in dividing it into pills of equal size, which is effected by dividing it with a spa-

tula into morsels of the requisite weight, and rolling them between the fingers; or, in a more effectual, rapid, and cleanly manner, by means of a pill-machine. (See

ig. 11.)

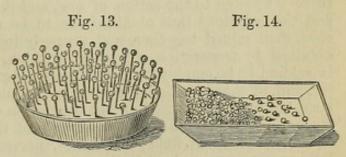
7. To prevent any adhesion of the pills after they are made, and to prevent any disagreeable taste, they are, in most cases, covered with an inert powder: as, powdered liquorice-root, starch, orris-root, lycopodium, and frequently with magnesia; but this latter is wholly unsuited to some preparations-for instance, to pills of calomel—as decomposition will be caused. In Europe, they are often coated with gold or silver leaf; but this plan is seldom adopted in this country. Where, from their nauseous taste, or other circumstances, it becomes expedient to cover them, this is best done by means of gelatin. Each pill, being stuck on the point of a thin wire, four or five inches in length, is dipped into a solution of gelatin (a, Fig. 12), so as to coat it completely; and the wire is then inserted into a pin-cushion, or a vessel containing fine sand (Fig. 13), and left till the gelatin is firm, which occurs in about a quarter of an hour, when



Water-bath, in which is placed the vessel, a, holding a solution of one part of gelatin in two parts of water. b. Waste pipe to carry off the steam. c. Gas burner.

the pill can be transferred to a pan (Fig. 14) to dry. Pills may be coated with sugar by covering them first upon a slab with a thin film of mucilage of gum Arabic or tragacanth, and immediately afterwards transferring them to another tile containing very finely-powdered sugar, or an intimate mixture of sugar and some gum Arabic; by giving the pills a rotary motion,

pressing slightly upon them, the powder is made to adhere, and the coating will become dry if the rotary motion is continued for some minutes, in the presence of powdered sugar, upon a tile previously heated. The operation is more rapidly and uniformly performed by placing the pills previously moistened with mucilage in a hollow sphere containing powdered sugar,



COATING PILLS WITH GELATIN.

Fig. 13. Vessel partly filled with sand, into which the pins holding the coated pills are stuck.

Fig. 14. Pan for holding the partially-dried pills.

and rotating it rapidly for a few minutes. To prevent the coating of sugar from becoming discolored, the pills should be previously dried, and put in a warm place after the coating has been effected. On a large scale, pills are covered with sugar by rotating them continuously with moist sugar or dense

syrup, gradually added, in a hemispherical copper dish, which is kept warm either by placing a suitable gas or other furnace beneath it, or by heating it with steam, until the moisture has evaporated and the covering of sugar has become smooth and glossy.

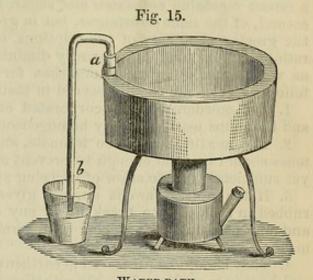
Extracts.—This name is given to all products resulting from the evaporation of a solution, obtained by maceration, digestion, or decoction, or of an expressed juice. They are generally of a soft consistence, of a dark color, and of an odor and taste analogous to those of the substance from which they are derived. They have been classed according to the fluid employed in obtaining them; as watery, alcoholic, hydro-alcoholic, ethereal, vinous, acetic, etc. Some, however, are made from the expressed juices of plants, without any intermedium. The great object, in selecting one or more of these menstrua, is to employ that which takes up the largest proportion of the active ingredients of the root, bark, etc.; for the most advantageous solvent for one constituent may be wholly inefficient for others. Thus, alcohol is the proper menstruum for resinous substances, water for bitter extractive, vinegar or diluted acids for articles containing alkaloids, etc.; but, in some cases, an extract, containing all the active properties of the drug, can be obtained only by a combination or a succession of different solvents.

Extracts made by inspissating the expressed juices of plants have been considered to contain the active principles of the vegetable in a less altered form than by any other mode. But it has been shown that such is far from being the case, as, in some instances, the expressed juice does not contain the active constituents. Thus, in aconitum, much of the efficient principle is left in the residuum; added to which, in some extracts made in this manner, the medicinal ingredients are destroyed, or much deteriorated, in the evaporation. This is obviated, in a great measure, by allowing the expressed juice to evaporate spontaneously at ordinary temperatures, or by carrying on this process in vacuo. It has been found that extracts made by the latter method have more of the aroma and taste of the original article, keep better, and are more efficient. When inspissation of the natural juices of the plant is not practicable, a solution of the active ingredients is to be obtained by the use of certain menstrua—as water and alcohol—according to the substance to be acted upon. When the active principles are soluble in water, that fluid is often used as the vehicle of extraction; when resinous, alcohol is to be employed; when oleoresinous, ether will be found the best menstruum. When it is desired that all the principles soluble in the various menstrua should be reunited in the extract, the vegetable substance is first to be subjected to the action of one, and then to another, of the solvents; and the solutions thus obtained are to be evaporated to a syrupy consistence, then mixed together, and properly inspissated. These solutions are obtained by maceration, digestion, infusion, and displacement. Decoction is seldom to be employed, as it affords extracts containing much inert matter, and, of course, of inferior quality. Of late years the process of displacement has been much used in the formation of extracts, whatever the menstruum selected, as it affords a solution of the soluble principles in a much smaller quantity of fluid; and hence, prevents the injurious effects of too long an exposure to heat in the subsequent evaporation. (See Tinctures.)

With regard to the mode of evaporating extracts, much caution is requisite, as the various constituents of these bodies are very liable to undergo decomposition when exposed to the action of heat and atmospheric air. Sometimes the evaporation, especially of aqueous solutions, is performed over the naked fire; but this plan is liable to many objections, more particularly towards the close of the operation, when a small excess of heat may cause such a change in the character of the ingredients as to deprive

them of all useful properties; and it is from this cause that extracts are sometimes wholly worthless. Other and far better methods consist in the use of water and steam-baths (see Fig. 15), which prevent all danger of burning the

extract. In the inspissation, when conducted in open vessels, it is of importance that the evaporation should be carried on rapidly, that the solution may be exposed to the action of the air for as short a time as possible. Evaporation in vacuo is always to be preferred, when practicable, as the process cannot only be carried on at a lower temperature, but the deteriorating influence of the air is avoided. The great objection is the additional expense it entails on the operation. Spontaneous evaporation has also been successfully employed; though necessarily slow, it affords excellent products. It is always advantageous to aid this process by employing artificial heat to a certain degree, by conducting it in a drying room or warm closet, and by causing a current of dry air, heated to about



WATER-BATH. This is made of tinned-iron or copper, in such a This is made of tinned-iron or copper, in such a manner as to leave a space between the two rings forming its wall, into which water can be introduced through the orifice a. The temperature of the water can be raised by a stove heat, or by the spirit lamp (represented beneath), above 212° F., by causing the mouth of the tube b to dip into a cup of mercury.

cup of mercury.

100°, to pass over the surface of the evaporating fluid. Extracts made in this manner keep well, not undergoing the spontaneous decomposition so detrimental to extracts in general. When alcoholic solutions are to be concentrated, distillation should always be used, as not only can the alcohol be recovered, but, from the process being carried on out of the atmospheric air, one great source of injury to the product is avoided.

The consistence of extracts varies according to their ingredients, and the purposes to which they are to be applied. In addition to the fluid extracts, properly so-called, three different degrees of consistence are recognized in the pharmacopæias: one quite soft, so as to require considerable vegetable powder for making pills; another sufficiently firm to require little or no vegetable powder for that purpose, and the third so hard as to be pulveriza-These different forms of extracts are useful because of the readiness with which they can be formed into pills or powders, when prescribed. But, in many cases, extracts undergo a change, some becoming soft and others hard; and one of the difficult parts of an apothecary's business is to keep these preparations of an uniform consistence. They should be preserved in bottles or glazed earthenware pots, protected as much as possible from the action of the air. Notwithstanding every precaution that can be taken, a diminution of activity will, sooner or later, take place; hence, these peparations should be examined from time to time, and, if necessary, be renewed. The safest plan is to renew those made from recent plants once a year.

To facilitate the dispensing of narcotic extracts in powder, the German Pharmacopæia directs them to be thoroughly mixed with some powdered dextrin in a warm porcelain dish; the mixture is then exsiccated at a temperature not exceeding 122° F., and while still warm triturated into an uniform powder with sufficient dextrin to make the weight of the powder equal to twice the weight of the extract employed. Of these powdered extracts the pharmacist dispenses double the quantity of the narcotic extract ordered

by the physician.

Confections, Conserves, Electuaries.—As there is no essential difference in these preparations, they may be advantageously treated under one head. They are simple and compound: the first being merely a mixture of a recent vegetable substance and sugar, beaten into an uniform mass; the second, of the same substances, but in greater numbers. In consequence of the greater simplicity of prescriptions, of late years, the number of preparations of this kind have greatly diminished, and they are employed more as vehicles for other medicines than for their own remedial powers. The following rules are to be observed in their preparation and preservation:—

1. The powders to be incorporated are to be in a state of fine division,

and the pulps used, perfectly homogeneous, and not too fluid.

2. The mixture should be intimate, and the consistence of the resulting mass should be solid enough to prevent a separation of the ingredients; and yet sufficiently soft to allow of its being swallowed without being masticated.

3. If the mixture swells up, and gives off carbonic acid, it is to be well rubbed in a mortar, to break down any sugar that may have crystallized, and any hard lumps that may have formed, so as again to form an uniform mass.

4. They should be preserved in earthenware or porcelain pots, well covered, and kept in a moderately moist situation.

Pulps are simple medicinal preparations, of a soft consistence, formed of the tissues of vegetable substances, or some of their thin parts; they differ from extracts in containing insoluble as well as soluble principles. They are to be prepared by rubbing the fruit, or other articles from which they are made, through a wire sieve, so as to separate the vegetable fibre from the soft parts by which it is surrounded. When the fruit is hard or dry, it is to be softened by means of boiling water, previous to expression through the sieve. The expressed pulp, if not sufficiently consistent, is to be properly evaporated. Pulps are to be preserved in the same manner as confections. Very few of these preparations are now used in medicine.

Syrups.—These are liquid, viscous medicines, consisting of a concentrated

solution of sugar in aqueous fluids.

All fluids susceptible of dissolving more than their weight of sugar can be formed into syrups. These syrups are of two kinds: simple and compound. Simple syrup is prepared by dissolving sugar in pure water; and compound syrups are obtained by dissolving the sugar in solutions of various substances, formed by infusion, decoction, expression, etc. All medicinal syrups are now made from refined sugar; they require to be perfectly filtered, so as to be limpid, and they should have a certain viscidity of consistence, and be capable of being preserved without entering into fermentation, or crystallization. These latter properties depend on their not containing the proper proportion of sugar-an excess being deposited in a crystalline form, and a deficiency causing the solution to run into fermentation. The best mode of ascertaining the proper point of concentration is by means of the specifie gravity at different temperatures. The specific gravity of well-prepared simple syrup is, when boiling, about 1.261, and when cold 1.317; but the proper degree of concentration is more readily obtained by means of Baumé's hydrometer (see pages 34, 37). This should stand at about 30° in boiling syrup, and at 35° when it is cold. Other modes are also employed, which, although sufficiently accurate in the hands of an experienced operator, are not to be generally depended upon. They are derived from the degree of viscosity acquired by the syrup, as shown by the time required for the parts of a drop to re-unite, and by the length of the thread which a drop will produce before detaching itself, when poured from a spoon or ladle. When the

syrup, on cooling, presents a crystalline pellicle, it is a proof that the evaporation has been carried too far; but, when the sugar has been mixed with an acid, or when the process has been too much prolonged, the sugar loses its power of crystallization, however much the syrup is concentrated, and, there-

fore, does not form a pellicle.

Several officinal syrups are directed by the pharmacopæias to be made without heat, by agitating the liquid with the sugar in the form of a granular powder, and by a similar method, simple and other medicated syrups have been prepared. The sugar is placed in a suitable percolator, near the bottom of which a flannel strainer has been securely fastened; the water or solution is now added and left in contact with the sugar for half an hour, after which time the liquid is drawn off drop by drop. With a proper arrangement of the apparatus, and the requisite care to make the liquid percolate slowly through the column of sugar, a good dense syrup will be obtained. Should some of the sugar have escaped solution, the last portions of the syrup will generally be found of less density, and should be returned to the percolator until all the sugar is dissolved, after which the different portions of the syrup should be thoroughly mixed together.

The compound syrups, if kept any time, are liable to various alterations, depending on their nature, and the degree of care used in their preparation. Thus, the acid syrups, as the syrup of lemons, when too concentrated, deposit a copious white precipitate; and in some cases, solidify entirely. By heating them, they again become liquid; but again let fall a precipitate on cooling. This deposit is analogous to grape sugar, and is caused by the action of the acid on the sugar. When the sugar bears too small a proportion to the liquid, syrups are apt to run into fermentation. Even when the sugar is in proper proportion, this change often takes place if the solution contains much amylaceous or extractive vegetable matter. Even when too much concentrated, they may also undergo this change, from part of the sugar being deposited in a crystalline state; and the crystal, attracting the sugar necessary to the perservation of the syrup, reduces its strength, and renders it

liable to the same change as though it was originally too weak.

Syrups, especially those containing the juices of fruits, should be bottled whilst hot, and, when cold, well stopped and sealed; and these, as well as all other kinds, should be kept in a temperature not exceeding 60° F. Various plans have been devised to preserve syrups; but the best is to prepare them only in such quantities as will be used within a short time. The addition of chlorate of potassium, as advised by Maculloch, and of sugar of milk, as advised by Chereau, has proved useful; Durand recommended to add to each pint of syrup about one drachm of Hoffmann's anodyne, which appears to have the property of arresting or preventing any tendency to fermentation; and Mr. J. B. Moore has lately suggested to replace a portion of the sugar by glycerin equal to one-fourth the bulk of the finished syrup.

Mellites, or Honeys, are liquid, viscous medicines, somewhat analogous to syrups, but in which the sugar is replaced by honey. Like syrups, they may be divided into simple and compound, or medicated. Their preparation, medical properties, modes of administration and preservation, are very similar to those of the syrups, and do not, therefore, require further notice. Though formerly much used, they are now seldom prescribed, as they are often found to disagree with the stomach, especially if made with the honey of commerce in an unpurified state.

Infusions are aqueous solutions, made by treating vegetable products with cold or hot water, but never carried to ebullition. They are seldom made by the apothecary, who merely furnishes the medicinal ingredients;

whilst the preparation is usually confided to the nurse or other attendant on the patient. This plan, although more economical than when the preparation is compounded by the apothecary, often renders the prescription of the physician of little avail, from the infusion being erroneously made. They are generally prepared by pouring boiling water on the ingredients, and macerating in a tightly-covered vessel until the liquid cools; or the vessel is kept for some time at a low heat before a fire. In most cases, an infusion should be strained or filtered before being used; but, in general, nurses are content merely to decant them for use. The vessels, in which infusions are made, are usually of stone or earthenware, and polished metallic vessels may be used, provided they are not acted upon by the infusion. Infusions are mostly made for extemporaneous use, as they are exceedingly liable to decomposition, and consequently cannot be kept long without spoiling. They may, however, be preserved for some time by pouring them, whilst hot, into bottles so as to fill them, and forcing in stout corks. If the operation be properly performed so as to perfectly exclude the air, the infusion will keep for some months. An infusion made with cold water, by the process of displacement, has less tendency to spoil than one made in the usual manner with hot water.

Decoctions differ from infusions in the circumstance that the substance to be acted upon is subjected to the solvent action of the menstruum at its boiling point, and continued for a longer or shorter period, according to the solubility of the substance, or its constituents. By decoction, all the principles soluble in water can be obtained; and even many substances not properly soluble in that fluid are diffused through it, and held in suspension. On the other hand, many substances are injured or destroyed by decoction, especially when their active principles are volatile, and when, during ebullition, chemical changes take place, by which the active constituents are rendered insoluble, or are decomposed. In fact, protracted ebullition is seldom required since the process of displacement has become known, as it has been found that water at a common temperature, by this method, will exhaust most vegetable substances more effectually than the same fluid at 212° by decoction. There are some exceptions; as all emulsive preparations, and certain gummy solutions, require ebullition. As in the case of infusions, decoctions are only made extemporaneously, for they readily decompose by keeping. They should be prepared in closed vessels, and generally in those of earthenware. Copper vessels should be used with great care, as many vegetable decoctions corrode them, especially if permitted to cool in them. Iron vessels are not to be employed when the decoction contains tannin or gallic acid. Zinc is very rapidly acted upon by many vegetable substances, and should, therefore, be avoided. In all cases, the vessels employed should be deep and narrow, rather than broad and shallow, to obviate as much as possible the influence of the air on the product.

Tinctures are solutions of vegetable, animal, and, in some cases, of mineral substances in spirituous fluids. The spirit employed is alcohol, either diluted or undiluted, either pure or medicated; and, in some cases, ether. The form of tincture is one much used in pharmacy: it presents the active principles of drugs in a small volume; it can be preserved in an unaltered state for a long time; and is, in most cases, well adapted to unite with other substances in extemporaneous prescriptions. Tinctures are made by maceration, or by displacement.

Maceration is an operation in which, by the action of a fluid at common temperatures, continued for a certain length of time, a solution of the principles of an organic substance in that fluid is obtained. As before stated, in

making tinctures, the strength of the spirituous menstruum employed is varied according to circumstances. If the substance to be acted upon is resinous, alcohol is to be employed; if it contains also matters soluble in water, and insoluble in pure alcohol, this article, in a diluted state, is to be used. The period of maceration varies from a few hours to several weeks; and, during the process, the vessel in which it is performed should be kept closed, to prevent evaporation. When the spirit has remained upon the substance for the directed period, it should be decanted, instead of being left, as is too often the case, standing on the dregs until it is used. This practice is erroneous, and may be attended with evil consequences; for the characters and properties of a tincture which has been suffered to remain too long in contact with the solid ingredients, will often be found to differ considerably from what they would have been if the process had been terminated at the indicated time. When a tincture is made by maceration, it requires to be filtered, after being separated from the dregs; otherwise, it will be turbid, and deposit much insoluble matter on standing.

Displacement.—This process is of comparatively late introduction in the making of tinctures, etc. For a great proportion of these preparations, it is decidedly to be preferred to maceration; but for others it has not proved so

satisfactory. Mohr and Redwood observe, on this point :-

"When tinctures are made in large quantities, displacement is never likely to supersede maceration, on account of any practical advantages it may possess. If the prescribed directions be duly attended to, the process of maceration is unexceptionable. The process is more simple than the other; the mode of operating is more uniform, it is, in fact, always the same; it requires less of skill and dexterity in conducting it; it requires less constant attention during its progress, which, in operating on large quantities, is a consideration; and, finally, the apparatus required is less complicated.

"When only small quantities of tincture are made at a time, and kept in stock, the adoption of the process of displacement will often be found convenient and advantageous. It offers the means of making a tincture in two or three hours, which, by the other process, would require as many weeks. The process being thus completed in so short a time (for the quantity contemplated might be made at one operation), it would not be so likely as the other to experience neglect during the performance of it, or a deviation from the prescribed instructions; the product would, therefore, be more uniform. Finally, in many cases, the tincture and spirit may be removed from the dregs more completely, in operating on small quantities, by this process, than by the other."

These remarks are scarcely applicable now to this country, where the process of percolation has been found to possess many advantages if properly conducted, even on a very extensive scale. The United States Pharmacopæia contains the following observations and practical details of the

process, which will always insure an unobjectionable product :-

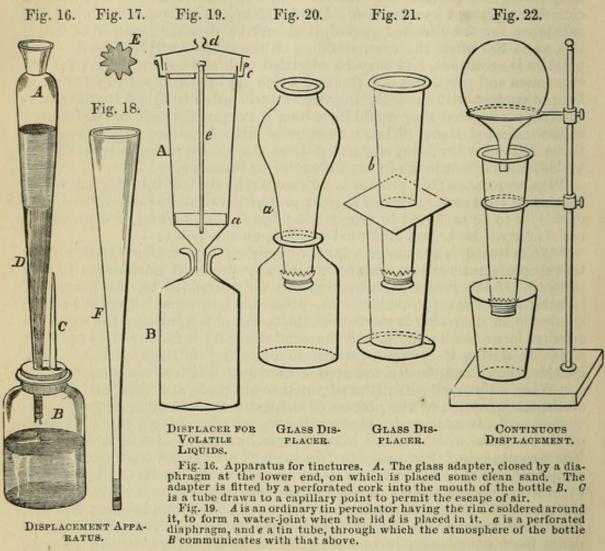
"The kind of filtration known as percolation or the process of displacement, directed in this Pharmacopæia, consists in subjecting a substance or substances, in powder, contained in a vessel called a percolator, to the solvent action of successive portions of a menstruum, in such a manner that the liquid, as it traverses the powder in its descent to the recipient, shall become charged with the soluble portion of it, and pass from the percolator free from insoluble matter.

"When the process is successfully conducted, the first portion of the filtered liquid, or *percolate*, will be nearly saturated with the soluble constituents of the substance treated; and, if the quantity of menstruum be sufficient for its exhaustion, the last portion will be nearly destitute of color,

odor, and taste.

"The percolator should be either conical or nearly cylindrical, with a conical termination at the smaller end, and provided internally with a porous or colander-like partition or diaphragm, resting transversely immediately

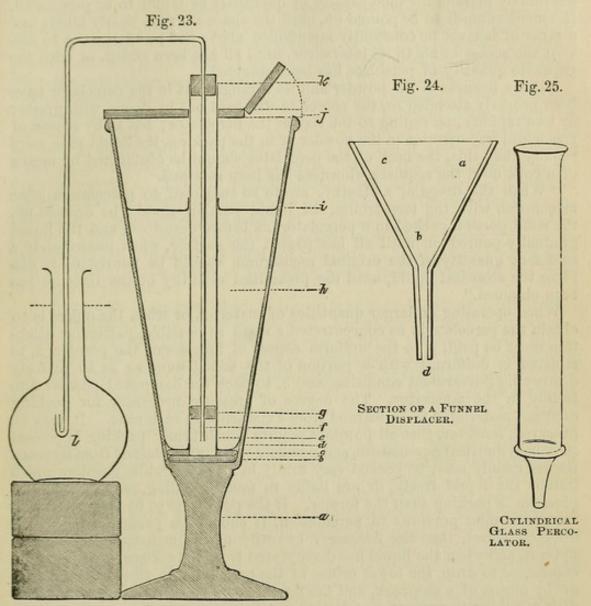
## VARIOUS FORMS OF DISPLACEMENT APPARATUS.



Figs. 20 and 21. Common glass chimneys with muslin diaphragms across the lower end.
Fig. 22 shows an arrangement for continuous displacement. Whenever the fluid in the percolator sinks below the mouth of the inverted bottle, the contents of the latter will run out and maintain the supply.

above its neck, for the support of the powder. Ordinary glass funnels, varying in capacity from one to eight pints, are to be preferred for most of the operations requiring percolation in this Pharmacopæia; but percolators may also be made of earthenware or tinned iron, especially of the latter material, when required of large size. Tinned iron, however, should not be used when the liquid acts chemically on the material. In the several formulas in which percolators are used, their form and material will always be designated, when there is a preference in these respects. In cases in which these variations of the instrument are indifferent, the term percolator simply will be employed. When a funnel is used, a circular piece of muslin or of lint, pressed into the neck by means of a cork with notched sides, forms a good diaphragm; but in all cases a similar piece of muslin, moistened slightly with the menstruum, should be interposed between the diaphragm and the powder, to prevent the passage of the fine particles of the latter.

"The substance to be subjected to percolation, after having been reduced by sifting to a uniform powder, of the fineness indicated in the formula, is to be put into a basin with the specified quantity of the menstruum, and the two rubbed together until the powder is uniformly moistened.



GLASS PERCOLATOR WITH SIPHON.

Fig. 23 shows an ornamental glass displacer, designed by Dr. Squibb, which appears to be particularly adapted for tinctures. In the bottom of the percolator a is placed a flat disk of flannel b; the glass well-tube e is surrounded at its base by a close-fitting disk of flannel c, and this is covered by a disk of filtering paper d; upon this the material h is packed in coarse or fine powder, and covered by a piece of muslin i. The glass siphon f is inserted in the well-tube, and held in position by rubber disks or stoppers g and k. After the material has been sufficiently macerated with the menstruum, the siphon is started by suction at the turned-up end, and the flow of the liquid, to be collected in the receiver l, is regulated by raising or lowering the siphon. The percolator is covered by the rubber disk i. colator is covered by the rubber disk j.

Fig. 24 is a funnel displacer or conical percolator, the section of which should form an equilateral

triangle.

Fig. 25. A cylindrical glass percolator, adapted for astringent and other drugs which cannot be exhausted in metallic percolators. The diaphragm may be replaced in the funnel and cylinder by a plug of carded cotton inserted in the neck, and if the material is to be macerated in the percolator, the lower orifice is closed by a cork, and the top covered by a disk of rubber. Percolators of this kind are made of different dimensions; the above represents a syringe pattern displacer, which is suitable for small operations. is suitable for small operations.

"A portion of the powder is now to be carefully placed upon the diaphragm, prepared as above directed, and pressed gently until the muslin, resting against the sides of the percolator just above the neck, is covered with a uniform layer. The remainder of the powder is then to be transferred to the percolator, and compressed evenly and firmly, and the levelled surface covered with a circular piece of moistened muslin or paper, so that the liquid poured upon it may penetrate equably, and not disarrange the powder.

"The percolator being now properly supported, with its neck in a bottle previously marked for the quantity or quantities of liquid to be percolated, the menstruum is to be poured on, until the space above is nearly filled; and a layer of it must be constantly maintained above the powder, so as to prevent the access of air to its interstices, until all has been added, or until the requisite quantity of percolate has been obtained.

"If the fineness of the powder and its arrangement in the percolator have been properly attended to, the percolate will pass out by drops, with greater or less rapidity, according to the size of the percolator; but if, by reason of accidental imperfection in the powder or in the packing, the liquid pass more rapidly than this, the neck of the percolator should be obstructed by means

of a cork until the requisite slowness has been attained.

"When the dregs of a tincture are to be subjected to percolation after maceration with the menstruum, the liquid portion should be drained off, the solid portion packed in a percolator, as before described, and the liquid gradually poured on until all has passed the surface, when immediately a sufficient quantity of the original menstruum should be poured on to displace the absorbed liquid, until the prescribed quantity of the tincture has been obtained."

When operating on larger quantities of material, or when the object is to obtain the percolate in as concentrated a state as possible, particular attention must be paid, 1, to the uniform degree of fineness of the powder, 2, to moisten it uniformly with a portion of the menstruum, so as to scarcely destroy its pulverulent condition, and 3, to pack the dampened powder uniformly in the apparatus. The degree of pressure necessary for packing different material is to be learned from experience in each case. It may be observed, however, that all powders require much firmer packing in conical than in cylindrical percolators, and powders which are obtained from ligneous tissues mainly must be packed very firmly in all cases, while powders which imbibe the liquid freely, or are liable to much swelling, require a lighter pressure in packing than the former. If the powder is to be macerated with the menstruum previous to percolation, it should be packed carefully, as directed above, then the necessary quantity of the menstruum is poured upon it, and when the liquid has disappeared from the surface, or if it should commence to drop, the lower orifice of the percolator is closed with a cork, or by means of a stopcock, and the top is covered with a plate of glass or disk of rubber to prevent evaporation. After the maceration has been completed, the lower orifice is opened, more menstruum is added, and the percolation finished in the usual manner.

That the dampened powder has been properly packed may be readily observed in a glass percolator after the menstruum has been poured on; it should then descend slowly but uniformly on all sides. If it descends more rapidly on one side, or in irregular lines, the powder is either not uniform, or it has not been properly dampened or properly packed, or these three conditions have not been well attended to, and the process will, therefore, be a failure to a greater or less degree, in proportion to the deviation from the rules laid down above.

In some operations, especially those on the large scale, it is found useful to promote the displacement by pressure. This may be produced simply by supplying the solvent through a tube several feet high, adapted to the upper end of the cylinder, and terminating at the top in a funnel. A still better method, as involving the use of less spirit, consists in the use of compressed air. By means of a condensing syringe, or a column of water or

mercury in a tube, air is condensed in the bottle below; and, when the material and spirit have been introduced into the percolator, the top is tightly secured by a screw, and the compressed air admitted by a stopcock. This method answers excellently on the small scale with a column of mercury.

Resinous and other substances which are almost entirely soluble in the alcoholic menstruum, present some difficulties by obstructing the passage of the liquid. Tinctures of such substances are best prepared by maceration, or, if percolation is preferred, the material is to be reduced to a uniform powder, and this mixed with at least an equal bulk of fine, well-washed sand,

when the soluble portion is readily exhausted by percolation.

The solution which first passes through in this process is always in a state of high concentration. In general it is a simple solution of the soluble ingredients of the crude drug in the fluid employed. But sometimes the solvent, if compound, is resolved into its component parts; and the fluid which passes through is only one of these, holding the soluble parts of the drug in solution. Thus, if diluted alcohol be poured over the powder of myrrh, in the cylinder, the fluid which first drops into the receiver is a solution of oily consistence, composed of resin and volatile oil dissolved in alcohol. And if powder of galls be acted on in like manner by aqueous sulphuric ether, two layers of fluid are obtained—a highly concentrated solution of tannin in the water of the ether, and a weak solution of the same principle in pure ether.

Displacement is accomplished, in the manner here described, with little or no intermixture of the liquid above, with that which is below, in the pulpy mass. If, after the pulp has been allowed to drain till drops cease to fall, the quantity of spirit retained by it be ascertained—that is, by subtracting what has dropped from what has been used to make the pulp—and the same quantity be poured gently over the mass, repeatedly, as soon as the dropping caused by each successive addition ceases, a series of liquids will be obtained by the simple displacement of one another in the pulp; and most of the spirit used may be obtained by pouring over the pulp the same quantity of water. Hence, one of the many advantages possessed by this method of making tinctures, over the ordinary mode by maceration and expression, is that no part of the tincture is lost by being left behind in the residuum.

Even when a strict attention is paid to the prescribed formula, the resulting tinetures may be found to vary in medicinal strength; for any variation in the activity of the drug will influence the tineture. These preparations, although retaining their properties better than other vegetable solutions, will gradually undergo changes, from age and exposure, either losing their color, depositing insoluble matter, or, in some cases, as in that of the tineture of kino, becoming less astringent, and gradually gelatinizing, particularly if a

weak alcohol has been employed.

Repercolation or fractional percolation is a rather complicated adaptation of the process just described, and its object is to avoid evaporation in the preparation of fluid extracts. It is based on the fact that the first portion of the alcoholic percolate contains a much larger proportion of the medicinal principles than the later ones, which may be used with advantage for dampening and percolating a fresh portion of the powder, in the place of alcohol. If sixteen troyounces of material are to be made into an alcoholic fluid extract, the fine powder is divided into three equal parts, and the first part exhausted by alcohol in the manner described before; the last portions of alcohol may be displaced by water. The percolate is collected in fractions of four, two, three, and six fluidounces, the first fraction (four fl. ounces) being reserved, the second (two fl. ounces) being used for dampening the second part of the powder, and the third and fourth fractions for percolating; about two ounces of alcohol may now be used, and finally water to expel

most of the alcoholic liquid. This second percolate is again collected in four fractions of five, two, three, and three fluidounces, of which the first (five fl. ounces) is reserved, and the others employed for exhausting the remaining third part of the powder, in precisely the same manner as the second part was exhausted, this last percolate being collected in two fractions of seven and three or four fl. ounces, the latter being set aside to be used as so much alcohol at the next making of this fluid extract. The three reserved fractions (four, five, and seven fl. ounces) are then mixed, and will now represent in each minim one grain of the powder.

The process appears to be by far too complicated for general use, and since the last pharmacopæia has greatly simplified the processes for the fluid extracts, many of the arguments in favor of repercolation do not apply to

them.

Wines are tinctures in which the menstruum is wine. Sherry wine is ordered to be employed by the United States and British Pharmacopæias. The solvent power of wines on vegetable products depends on the water and alcohol they contain; the other principles found in them are injurious to it as an excipient; the mucilage disposing to fermentation, and the coloring matters and tannin often decomposing the active principles of the vegetable substances dissolved in it. On this account, these preparations are now going out of use, and mixtures of alcohol and water, of the proper strength, substituted as solvents. These can always be made of definite strength, which can seldom be attained when wine is used.

Medicated wines are made by maceration or displacement. In whatever way they are prepared, they are very liable to undergo a change, and hence should be made in small quantities only, and be kept in well-closed bottles,

and in a cool and dark place.

VINEGARS are solutions of certain parts of vegetables in distilled vinegar or diluted acetic acid. Few of these preparations are officinal; but, in some cases, the state of solution in distilled vinegar is the best that can be desired, at least as far as energy is concerned. This is particularly the case when the activity of the medicinal substance depends on the presence of an alkaloid, which, by uniting with the acetic acid, forms a salt that is readily soluble; and, therefore, may be more perfectly extracted than by other menstrua.

As even distilled vinegar contains vegetable matter, rendering it liable to decomposition, it has been found advantageous to substitute acetic acid, properly diluted. In consequence of this liability to become decomposed, medicated vinegars should be made in small quantities, and be renewed at short intervals. In many cases, the acetates of the vegetable alkaloids, dissolved in water or diluted alcohol, may be substituted for medicated vinegars, producing all their good effects, and attended with but few of their disadvantages.

MIXTURES are liquid medicines containing two or more ingredients, generally of extemporaneous preparation, though a few are recognized as officinal. They are in very constant use in the administration of remedies. The ingredients which usually enter into their composition are salts, and other solid bodies which are soluble, or readily miscible with aqueous fluids; also tinctures, spirits, syrups, decoctions, etc.

In making a mixture, the objects to be attained are the perfect solution of the soluble ingredients, and an equal diffusion of those which are not so, through the excipient, as well as the thorough admixture of all the constituents, so that each dose shall be similarly composed. The combination of articles in a mixture is effected either by agitation, or by rubbing the ingredients together in a mortar. When volatile substances enter into a mixture, they should be added last. Insoluble powders, which are easily diffused through a fluid, may be mixed with the liquid ingredients, by merely shaking them together in the bottle. When, however, powders do not mix readily with liquids, they must be triturated in a mortar with a small quantity of the fluid, gradually adding more, until they are of the consistence of thin paste. In the same manner, extracts and electuaries are to be rubbed down with a portion of the excipient previous to putting them in the bottle.

Draughts differ from mixtures only in being designed to be taken at a single dose. This is not a common mode of prescribing medicines, but in some cases it is advantageous, as when it is wished to apportion the doses of a medicine accurately, or when the medicine is liable to undergo a change

from the action of air.

Emulsions are mixtures containing substances of an oleaginous or resinous nature suspended in aqueous fluids by the aid of gum, syrup, yolk of egg, or any viscid matter. It is a mechanical compound, and the union of its ingredients is promoted and rendered more or less permanent by the addition of an alkali. Emulsions are made by triturating certain oleaginous seeds with water, or by mixing the oil procured from them with the necessary ingredients; and also from gum resins in the same manner. Sometimes they are made with oils and an alkali. In making an emulsion of the oils or oleoresins with mucilage, the former should be gradually added to the latter; by adding the mucilage to the oil, a good emulsion cannot be easily formed. Mucilage is preferable to an alkali in making many emulsions, as those with castor oil or copaiba; an alkali is preferable in forming an emulsion of almond or olive oil; but an emulsion formed with either of these agents alone will often separate, if the other be added. The presence of soluble salts in an emulsion is also apt to cause a separation of the oil. Much spirit will produce the same effect in emulsions made with mucilage, and an acid in those made with an alkali. Some substances cannot be formed into good emulsions either with an alkali or with mucilage. This is the case with spermaceti and oil of turpentine. In such cases the yolk of an egg is the best agent for effecting the admixture, by rubbing down the ingredients in a

Volatile oils are most readily made into an emulsion by being previously mixed with one of the fixed oils. Scammony is formed into an emulsion by means of milk; but resin of jalap will not unite with this fluid, and is best emulsionized by triturating it with almonds and water. Emulsions should

be made with cold water, and strained.

Mr. W. Procter, Jr., gives the following valuable directions for making emulsions (Amer. Journ. Pharm., xv. 11): "In making an emulsion, a good deal depends even on so slight a circumstance as the form and material of the mortar and pestle. An emulsion may, indeed, be made in a smooth porcelain mortar, but the process is unquestionably more successful and easy in a Wedgewood one, and still more so in the old-fashioned marble mortar, which is generally used to this day by the druggists and apothecaries in England. But whatever be the composition of the mortar, it is essential that it should be perfectly round at the bottom; not flattish, as is sometimes the case; and the pestle should be so formed as in its motion to leave no hollows between its base and the concave surface of the mortar. Otherwise, the emulsion will most probably be imperfect. The mucilage or other viscid substance should always be put into the mortar before anything else: the oil (or balsam) may then be very gradually rubbed in, taking care not to add it more quickly than it can be subdued by the pestle; and if, during this part of the manipulation, the mixture should begin to assume a breaking or curdling appearance at the edges, a few drops of water must be immediately incorporated with it, before adding the remainder of the oil. For want of this precaution, I have often known an emulsion suddenly to lose its tenacious consistence in the mortar, and it is then in vain to endeavor to restore it. After the oil is thoroughly incorporated, some care is requisite to avoid separating it again by too hasty an effusion of the water or other fluid of the mixture; and, if any alcoholic or acid liquid is to be added, it must be at the very end of the process. Indeed, an acid liquid, even a slightly accescent syrup, will often entirely destroy the emulsion. Mixtures of copaiba are frequently spoiled by the addition of sweet spirit of nitre; which might be avoided by first diluting it with one or two portions of water."

Mr. J. W. Forbes has proposed the following new method for preparing emulsions of volatile oils (Amer. Journ. Pharm., 1872, 61), illustrating it by an emulsion containing in two fluidounces one fluidounce of oil of turpentine.

"First. Pour the turpentine into a two-ounce vial, and shaking so as to coat the inside of the vial with a film of turpentine; this is to prevent the action of the moisture usually present.

"Secondly. Add 3j powdered acacia, and mix thoroughly with the oil.

"Lastly. Half a fluidounce of water is added, and the whole is well shaken. A perfect emulsion is the result, requiring less time for its preparation than to read the foregoing directions. The bottle may then be filled up with mucilage, or, according to my experience, a better product is ob-

tained with water simply.

"The deviation from the letter of the law in regard to the gum strength of the emulsion needs no apology to the practical pharmacist, as the sole object in view is to emulse the oil, and it will be found that ten grains to the fluidounce of emulsion will afford a product superior in all respects (especially in fluidity) to one containing more gum, and more nearly approaching the peculiar characteristics of that most perfect of all emulsions—cow's milk.

"An emulsion of turpentine prepared in this manner and allowed to stand some time, shows not the least separation of its oil, but floating on the surface of the water is a stratum of a true 'cream,' which, like its prototype, requires but slight agitation to mix thoroughly with its substratum."

In precisely the same manner ether and chloroform may be emulsionized; the "cream," in the latter case, being heavier than water, subsides, but is

diffused in the aqueous liquid with equal facility.

Medicated Waters.—This term is used to designate all preparations of water impregnated with volatile medicinal substances. It includes the Distilled Waters of other pharmacopeias, and is a more appropriate designation, because many of the latter preparations are not distilled waters, but are made with an essential oil united to the water by trituration or agitation,

no distillation being employed.

By Distillation.—There are two modes of obtaining medicated waters by this process: 1st, by distilling the water directly off the substances; 2d, by employing the essential oil already separated from the vegetable, and distilling it over with the water. In most cases, where the fresh plant can be procured, it is to be preferred. Many of these substances lose their volatile oil and fragrant properties by drying; but, in some instances, the oil is retained, notwithstanding desiccation. Many which lose the oil by the process of drying retain it fully for a length of time, when preserved by being beaten into a pulp with common salt; and, when kept in this state, afford very good distilled waters.

The material which supplies the volatile oil is, in general, simply mixed

with the water in a state of fine division; and this is probably the best mode, where heat is used in such a way as to exclude the risk of empyreuma. If it does not require to be finely divided, as in the case of fresh leaves and flowers, it may be put conveniently into a net-bag, which, suspended in the middle of the still, may be withdrawn with facility, when its contents are exhausted. Some manufacturers use steam, instead of water, for obtaining distilled waters: that is, the material to be distilled is spread over a fine gauze partition, or a plate perforated with numerous small holes, and steam is driven through the mass.

When the vegetable substance to be exhausted is a bark, wood, or other solid matter, it must be reduced to a state of moderately fine division. But this is not generally necessary in the case of leaves or flowers, because boiling water breaks down the cells in which the volatile oil is contained. When leaves, however, are thick and leathery, as in the instance of the cherry-laurel, the process is facilitated by chopping them down; and, in most cases, where leaves are large, it is difficult to get a sufficient quantity into the still without cutting them into pieces. In preparing the finer kinds of distilled waters, it is necessary to clean the materials carefully, to remove all decayed leaves or flowers, or those infested by insects, and sometimes also to separate the

leaf-stalks, or the green claw of the petals.

Heat may often be applied directly to the vessel; but in this way empyreuma is apt to be occasioned, especially in large operations, in consequence of the solid matters remaining fixed at the bottom. To avoid this, it is usual to apply the heat, in limited operations, through the medium of a solution of chloride of calcium, which raises a temperature between 212° and 270°, according to its strength—or by means of an oil-bath, with a thermometer to regulate the temperature; and, on the great scale, it is best applied by means of steam admitted under pressure into a space surrounding the still. Another cause of the empyreumatic taint of some distilled waters is the formation of a species of mucilaginous substance, at the expense of the volatile oil. This substance, which forms chiefly when the distillation is pushed too fast, or too far, and is seen encrusting globules of volatile oil, undissolved in the water, is apt to deposit itself on the side of the still, above the boiling materials, where it is afterwards decomposed by the heat. This fact explains the well-known observation, that the finest distilled waters are obtained by gentle distillation, and by abstaining from complete exhaustion of the materials. A still greater improvement is to prepare them with the vacuum-still, in the same way as is now often practised in making extracts.

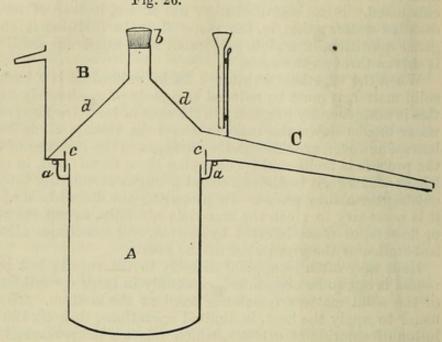
The other mode of obtaining medicated waters by distillation is by employing the volatile oil, previously separated from the plant, for the vegetable itself. This mode of operating affords a product less liable to change than the above; but it is not so aromatic as when obtained from the fresh plant.

Distilled waters, however carefully they may be kept, are apt, sooner or later, to lose their aroma; and some of them even become mouldy, and acquire thereby an unpleasant odor. They have been thought to keep better with the addition of about a fortieth part of rectified spirit; which may be either put into the still with the water, or added afterwards to the distilled fluid. But the advantages of this addition, although sanctioned by the authority of several pharmacopæias, are doubted by practical men. It is believed that the most effectual precaution for preserving them is to prepare them with extremely pure, natural waters, such as snow, rain, or very fine spring water (Müller), free, especially, of any unusual proportion of carbonic acid; and to keep them in black, orange, or red bottles, instead of bottles of clear glass (Hanle). A better mode of procedure is to re-distil the water as soon as any change is perceived in it; this restores its original odor, and renders it less subject to alteration.

42

Although a minute description of the process of distillation cannot be given in a work of this kind, yet the mode of conducting it on a small scale will be better understood by reference to the accompanying figures from Mohr, Redwood, and Procter's Pharmacy.

Fig. 26 represents a pharmaceutical still, holding about two gallons, made of tinned iron, and in-tended to fit in the top of a cylinder stove. A is the boiler; B the head, on the inner surface of which the condensation occurs; C the neck communicating with the recipient. a a is a rim, soldered around the mouth of the boiler, so as to form a water-joint; cc is a circular rim, soldered on the base of the head, in such a manner that the upper part forms a gutter for conduct-ing the condensed fluid from the base of the condensing cone, dd, to the neck, C, whilst the lower part projects below into the double rim of the boiler, a a, to form the water-joint. b is an opening corre

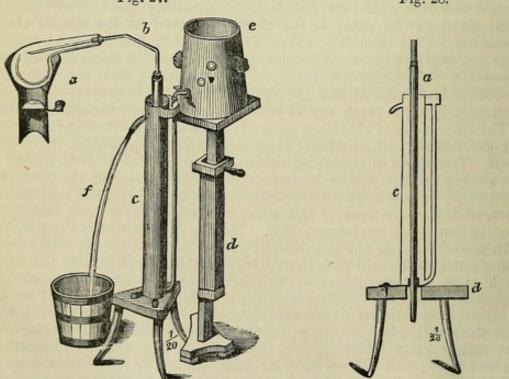


PHARMACEUTICAL STILL, SEEN IN SECTION.

sponding to the tubulure of a retort, which enables the operator to inspect the progress of the distillation, and to stir the contents of the still when necessary. This opening is stopped with a cork, or a tin cap. e is a funnel-tube into which a current of cold water runs during distillation, the warm water running off by the tube on the opposite side.

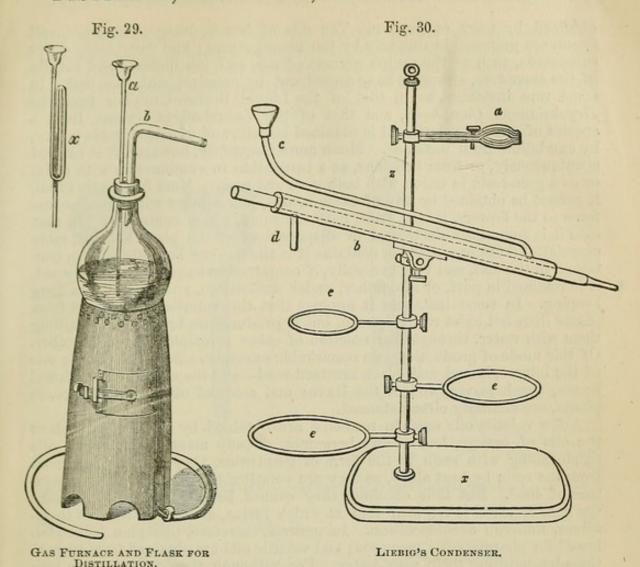
In using the apparatus, the water-joint should be two-thirds filled with water, the materials introduced, and the head adjusted and filled with water.

Fig. 27. Fig. 28.



DISTILLATION OF SPIRITS.

Fig. 27 represents Mohr's still, which is very convenient for limited operations. a, the retort; b, the connecting tube; c, the refrigerator, through which passes the condensing tube, represented at a, Fig. 28; d, the stand for supporting e, the tub of cold water; f, the refuse water.



Figs. 29 and 30. A very simple and convenient arrangement is represented in these figures.
Fig. 29. a, funnel for introducing fresh liquid into the flask during distillation. b, the connecting tube.

ing tube.

Fig. 30. Liebig's condenser, consisting of the tube b, through which a glass tube is seen to pass.

This connects by one end with the connecting tube of the flask, and from the other the distillate

drops out.

By placing a vessel holding water, and provided with a stopcock, on one of the rings e e e and by turning the cock, a continuous stream of water is carried through the tube e to the lower end of the condenser e, then upwards, surrounding the glass tube until it escapes by the pipe e. The retort-stand consists of the foot e, of the rod e, of the Gay-Lussac holder e, and of the rings e e e.

One of these three forms of apparatus will be found very convenient in

conducting the distillatory processes of the shop.

By Admixture.—Another method of making medicated waters is by impregnating the water with the volatile oil, by triturating them together with the addition of carbonate of magnesium, and filtering to remove the latter. This affords an excellent product, as it is permanent. The addition of the carbonate of magnesium is merely to enable the operator to produce such a minute division of the oil as will enable water to act on it more efficiently. A small portion of magnesia is dissolved in the medicated water, but this does not interfere with its use, except when it is prescribed as a vehicle for poisonous alkaloids, in which case it should be slightly acidulated by the addition of a few drops of acetic acid. Other powders divide the volatile oil in the same way, and are preferred by some manufacturers.

DISTILLED, ESSENTIAL, OR VOLATILE OILS.—Volatile oils are contained in vegetable cells, generally peculiar, and often so large as to be distinct to the naked eye. Sometimes they exist in such abundance that the oil may be

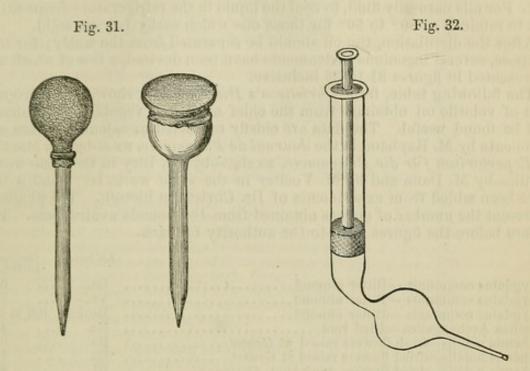
obtained by mere expression. The oils of lemon, orange, bergamot, and citron are prepared in this way by the manufacturer; and from many other substances, such as the unripe germen of rue, and the undeveloped corolla of the clove-tree, oils may be squeezed out by pressure with the nail. In some rare instances, as in that of the Liquid Borneo-Camphor from the Dryobalanops Camphora, and that of the Laurel-oil of Guiana, from a species of Ocotea, volatile oil is obtained largely, and of considerable purity, by exudation from incisions. Much more frequently, however, it is exuded spontaneously, or from incisions, as a turpentine in combination with resin, or as a gum-resin in union with both gum and resin. Most frequently of all, it cannot be obtained by any of these modes, but adheres with more or less force to the flowers, leaves, fruit, bark, or wood, which contain it. In that case it is sometimes destroyed or dispersed when the plant is dried, more especially if the organ which contains it is the flower; but often, when contained in the leaf, and very generally, if contained in the seed, bark, or wood, it is retained in part, or altogether, under desiccation, and even under long keeping. In some instances it appears that the volatile oil obtained from plants does not exist ready formed, but is produced on bruising or distilling them with water, through the reaction of other principles on one another. Of this mode of production two remarkable examples exist—the volatile oils of the bitter almond and black mustard seed—and the oils of cherry-laurel leaves, peach leaves, and of the leaves and seeds of other amygdalaceous plants, are similarly circumstanced.

A few volatile oils used in medicine are obtained by expression, such as the oils of orange, lemon, and bergamot, already mentioned. When oils exude along with resin in the form of turpentine, they may be separated from the resin by heat alone, as they are volatilizable at about the temperature of 400°. But thus obtained, they cannot be of fine quality, because the heat required is too near that at which resins, as well as the oils themselves, undergo decomposition. In general, therefore, this plan is not followed for pharmaceutic purposes; and volatile oils are obtained from turpentines by distilling them with water. For, although they do not enter into ebullition at the temperature of boiling water, their vapors pass over in large quantity with steam; and, condensing along with it, form distilled waters with volatile oils either floating on the water, or, more rarely, sinking to the bottom. The volatile oils of many vegetable substances are to be separated in this way alone, because the other principles contained along with them in the crude substances are empyreumatized by the higher temperature which is required to disengage the oil without the co-operation of watery vapor. In some instances it has been thought advantageous to substitute for water in the still a strong solution of common salt, because a somewhat higher temperature is required to boil it. There seems an advantage in this change, for the rectification of oils previously obtained from the raw materials in which they reside; but the advantage in the case of distillation from crude vegetable substances is doubtful.

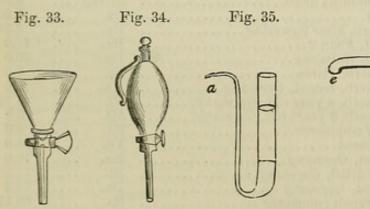
The method of distilling volatile oils differs little from that described above for preparing distilled waters. The same precautions must be observed in applying heat, and for the same reasons. The formation of mucilaginous matter at the expense of the oil, towards the close of the distillation, is shown by the globules of oil coming over enveloped in a fine pellicle of it. The quantity of water must be proportionally less, or rather, the same portion of water is to be used with successive portions of the material which yields the oil; otherwise, a material loss is sustained by solution of the oil in the water. In some instances, where the oil exists in low proportion, and is of great value, the distilled fluid should be left at rest for some time, and

exposed to as low a temperature as can be commanded.

The mixed vapors which pass over condense into a milky-looking fluid, which, after standing some time in the receiver, separates into two portions, one a solution of a part of oil in water, and the other of the oil itself, which occupies the upper or lower part, according as it is lighter or heavier than the water.



Figs. 31. and 32. Various forms of Pipettes for separating Liquids, Filling Vials, Etc.



SEPARATING-FUNNEL. SEPARATOR. SEPARATOR.

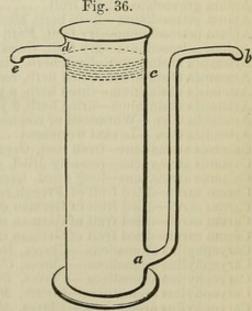
Fig. 33. The ordinary separating funnel, having a

Fig. 33. The ordinary separating funnel, having a perforated ground glass stopper.

Fig. 34 is a vessel for separating ether or other volatile liquids from heavier ones.

Fig. 35 answers very well when the quantity of the fluids is very small. By inclining it, the heavier liquid escapes by the orifice a.

Fig. 36 is a separator for either heavy or light oils. The former can be drawn off by the orifice of the tube b; the latter by the tubule de.



SEPARATOR FOR HEAVY OR LIGHT OILS.

Chevallier gives the following rules for the distillation of volatile oils:—

1. To operate upon large quantities, in order to obtain a greater product, and of better quality.

To conduct the distillation rapidly.

- 3. To divide the substances minutely, in order to facilitate the extrication of the oil.
  - To employ only sufficient water to prevent the plant from burning.

5. For substances whose oil is heavier than water, to saturate the water in the still with common salt, to raise the boiling point, and thus to enable the vapor to carry over more of the oil.

6. To employ, when possible, water which had already been distilled from

off the same substances, and had thus become saturated with oil.

7. For oils naturally fluid, to cool the liquid in the refrigeratory frequently; but to retain it at 80° to 90° for those oils which easily become solid.

After the distillation, the oil should be separated from the water; for this purpose, several ingenious instruments have been devised, a few of which are

represented in figures 31 to 36 inclusive.

The following table, from Christison's Dispensatory, showing the proportion of volatile oil obtained from the chief medicinal vegetable substances, will be found useful. The data are chiefly extracted or calculated from experiments by M. Raybaud in the Journal de Pharmacie, xx.—by Dr. Martius in Repertorium für die Pharmacie, xxxix.—by Dr. Bley in the same work, xlviii.—by M. Dann and by M. Voelter in the same work, lv.;—and a few have been added from experiments of Dr. Christison himself. The numbers represent the number of ounces obtained from 100 pounds avoirdupois. The letters before the figures refer to the authority for each.

		I de la
	Author.	Ounces in
1 11 Plu 1 1		100 lbs. av.
Amygdalus communis.—Bitter almond	Ra	
Amygdalus communis.—Bitter almond	Vo	
Amygdalus communis.—Bitter almond		0.8 to 4.80
Angelica Archangelica—dried root	Ra	
Anthemis nobilis—fresh flowers raised at Grasse	Ra	
Anthemis nobilis—dried flowers raised at Grasse	Ra	
Anthemis nobilis—dried flowers, long kept, Germany	Bl	4.50
Anthemis nobilis—flowers freshly dried	Steer	5.33
Anthemis nobilis—flowers 12 months dried	Steer	3.00
Apium graveolens—dried fruit	Ra	9.00
Apium petroselinum-fresh herb, after flowering	Ra	3.38
Apium petroselinum—dry fruit, France	Ra	400
Apium petroselinum—dry fruit, Germany	Da	00.0
Artemisia absinthium—fresh herb, Paris	Ra	0.0
Artemisia absinthium—dried herb, recent, Germany	Ma	400
Artemisia absinthium—dried herb, a year old, Germany	Bl	0
Artemisia absinthium—dried herb, 3 years old, Germany	Ma	
Artemisia cina.—Wormseed of commerce	73	0.0
Artemisia cina.—Levant wormseed	**	40.0
Colombia characters from root Commany		400
Calamus aromaticus—fresh root, Germany	Ma	
Calamus aromaticus—recently dried, Germany	Bl	
Calamus aromaticus—long dried, Germany	Da	
Carum carui—dried fruit of French commerce	Ra	
Carum carui—dried fruit of German commerce	Ma	
Carum carui—dried fruit of German commerce	Da	ma a
Carum carui—dried fruit of German commerce	Vo	
Caryophyllus aromaticus.—Cloves, Bourbon	Ra	
Caryophyllus aromaticus.—Cloves, Cayenne	Ra	
Caryophyllus aromaticus.—Cloves, Cayenne	Bl	
Caryophyllus aromaticus.—Cloves, Molucca: French commerce.	Ra	
Caryophyllus aromaticus.—Cloves, Molucca: English commerce.	Ra	112.5
Caryophyllus aromaticus.—Cloves, average, German commerce.	Vo	226.0
Caryophyllus aromaticus.—Cloves, finest, German commerce	Da	250.0
Caryophyllus aromaticus.—Cloves, German commerce	Steer	272.0
Cinnamomum zeylanicum—cinnamon of commerce	Ra	1.56
Cinnamomum cassia—cassia bark of commerce	Ra	12.0
Citrus aurantium—sweet orange flowers, 1 May, Nice	Ra	
Citrus vulgaris-bitter orange flowers, 7 May, Nice	Ra	- 0
Citrus vulgaris-bitter orange flowers, 12 May, Carmet	Ra	1.40
Citrus vulgaris—bitter orange flowers, 16 July, Paris	Ra	0.0
Citrus vulgaris—bitter orange flowers, 14 Dec., Paris	Ra	0 -
Citrus aurantium—rind of 100 oranges, by expression	Ra	0 =
Civilia autiliaria Tima of 100 oranges, of outression.		

	Author.	inces in
Citrus aurantium—rind of 100 oranges, by distillation	Ra.	 2.75
Citrus vulgaris—rind of 100 oranges, by expression	Ra.	 4.0
Citrus vulgaris—rind of 100 oranges, by distillation	Ra.	 4.25
Citrus limetta—rind of 100 limes, by distillation	Ra.	 2.13
Citrus bergamium—rind of 100 bergamots, by distillation Citrus limonum—rind of 100 lemons, by expression	Ra. Ra.	 2.9
Citrus limonum—rind of 100 lemons, by distillation	Ra.	 1.4
Cochlearia armoracia—fresh seeds	Ra.	 0.9
Coriandrum sativum—dry fruit of French commerce	Ra.	 2.3
Coriandrum sativum—dry fruit of German commerce	Da.	 9.0
Croton Eleutheria—cascarilla bark	Bl.	 5.62
Cuminum cyminum—dry fruit of French commerce	Ra.	 44.0
Cuminum cyminum—dry fruit of German commerce	Bl. Ra.	 32.5 0.66
Daucus carota—dry fruit.  Daucus carota—fresh root.	Ra.	 0.14
Dracocephalum moldavicum—flowering herb	Ra.	 2.10
Drimys Winteri-Winter's bark (probably, Cinnamodendron		
corticosum)	Ra.	 0.50
Corticosum)	Ra.	 12.38
Fæniculum officinale—dry fruit of French commerce	Ra.	 33.0
Feniculum officinale—dry fruit of German commerce	Ma.	 56.6 83.0
Fæniculum officinale—dry fruit of German commerce Fæniculum officinale—dry fruit of German commerce	Bl.	 60.4
Fœniculum officinale—flowering herb, Grasse	Ra.	 4.9
Fæniculum officinale—herb after flowering, Grasse	Ra.	 6.0
Galipea officinalis—Cusparia-bark of commerce	Ra.	 1.5
Genista canariensis—Rhodium wood	Ra.	 0.47
Geum urbanum—dry roots	Ra.	 0.53
Hyssopus officinalis—flowering herb, Grasse	Ra.	 5.30 34.21
Illicium anisatum—star-anise fruit.	Da.	 25.5
Juniperus communis—green berries, 15 Sept	Ra.	 3.9
Juniperus communis—ripe berries, 1 Dec., France	Ra.	 7.75
Juniperus communis—ripe berries, fresh, Germany	Do.	 15.5
Juniperus communis—ripe berries, a year old, Germany	Ma.	 10.8
Juniperus communis—ripe berries, a year old, Germany  Juniperus sabina—fresh twigs, 5 March, Grasse	Bl. Ra.	 16.25 19.05
Juniperus sabina—fresh twigs, 2 Oct., Paris	Ra.	 14.25
Juniperus sabina—dried twigs, recent, Germany	Ma.	 40.0
Juniperus sabina—dried twigs, a year old, Germany	Ma.	 25.0
Larix cedrus—fresh cedar wood, Paris	Ra.	 0.3
Larix cedrus—cedar wood of commerce	Ra.	 4.25
Laurus nobilis—fresh leaves, 26 Jan., Paris  Laurus nobilis—leaves some years dried, Germany	Ra. Bl.	 5.25 4.10
Laurus nobilis. ( fresh leaves. ) poor soil, low site	Chr.	 7.33
Laurus nobilis, a early in Oct. poor soil, high site.	Chr.	 6.9
Laurus nobilis, fresh leaves, poor soil, low site Laurus nobilis, early in Oct. poor soil, high site	Chr.	 17.12
Lavandula vera—flowering herb, 2 Aug., Grasse	Ra.	 11.5
Lavandula vera—flowering herb, 2 Aug., Grasse, north exposure.	Ra.	 9.13
Lavandula vera—flowering herb, 26 July, Soureillas Lavandula vera—herb after flowering, 26 Sept., Soureillas	Ra. Ra.	 9.0 15.0
Lavandula spica—fresh herb, 24 July, Paris	Ra.	 7.62
Lavandula spica—fresh herb, 4 Aug., Grasse	Ra.	 12.5
Lavandula steechas—dry spikes	Ra.	 6.43
Ligusticum levisticum—fresh herb, Paris	Ra.	 1.12
Melissa officinalis—fresh flowering herb	Ra.	 0.25
Mentha piperita—fresh tops in flower, Grasse	Ra. Ra.	 6.25 3.40
Mentha piperita—dried tops in flower, Germany	Bl.	 15.63
Mentha piperita—dried tops in flower, Germany	Ma.	 21.0
Mentha pulegium—fresh flowering herb	Ra.	 1.0
Myristica moschata—mace of commerce, finest	Vo.	 154.0
Myristica moschata—mace of commerce, fine	Bl. Bl.	 125.0 65.6
Myristica moschata—nutmegs of commerce, fine	Bl.	 108.25

## 664 DISTILLED, ESSENTIAL, OR VOLATILE OILS.

Married Landson and Company of the Control of the C	Author.		nces in lbs. av.
Myristica moschata—nutmegs of commerce, worm-eaten	Bl.		64.1
Myrtus communis—fresh leaves, September 20, Grasse	Ra.		4.5
Myrtus communis—fresh leaves, September 6, Paris	Ra.		2.5
Origanum majorana—fresh flowering herb, August 3, Grasse	Ra.		8.5
Origanum majorana—fresh flowering herb, August 3, Paris	Ra.		4.4
Origanum vulgare—fresh flowering herb, September 15, Paris	Ra.		0.4
Pimpinella anisum—dry fruit of French commerce	Ra.		35.12
Pimpinella anisum—dry fruit, new, German commerce	Ma.		37.5
Pimpinella anisum—dry fruit, old, German commerce	Ma.		27.0
Pimpinella anisum—dry fruit of German commerce	Vo.		25.0
Pimpinella anisum—dry fruit of German commerce	Da.		43.75
Piper cubeba—cubebs of French commerce	Ra.		19.5
Piper nigrum—white pepper of French commerce	Ra.		16.0
Piper nigrum—black pepper of French commerce	Ra.		18.13
Prunus lauro-cerasus—fresh leaves, November 23, Paris	Ra.		2.13
Prunus lauro-cerasus, fresh leaves undeveloped, June 7	Chr.		10.13
Prunus lauro-cerasus, from the same half-grown, June 7	Chr.		7.20
Prunus lauro-cerasus,   plants: near   full-grown, 8 weeks on			1.00
Edinburgh tree, July 10			4.96
Frunds lauro-cerasus, ( ) 12 mos. on tree, June 2.	Chr.		1.04
Prunus lauro-cerasus, (fresh leaves of the) 3 mos. on the tree.	Chr.		7.04
Prunus lauro-cerasus, same plant, 1 Sept. 15 mos. on the tree.	Chr.		2.24
Paradwia and many larger and many			
Renealmia cardamomum—lesser cardamoms	Ra.		11.42
Rosa centifolia—fresh flowers, Grasse	Ra.	****	0.25
Rosmarinus officinalis—fresh flowering herb, Grasse	Ra.		5.0
Rosmarinus officinalis—fresh flowering herb, Paris	Ra.		3.5
Ruta graveolens—fresh flowering herb, 20 July, Grasse	Ra.		4.13
Ruta graveolens—fresh flowering herb, 28 July, Paris	Ra.		0.63
Ruta graveolens—flowering herbs, newly dried, Germany Ruta graveolens—dried seeds, South of France	Bl.		19.0
Salvia officinalis, v. minor—fresh herb, 12 Mar., Grasse	Ra.		6.0
Salvia officinalis, v. minor—fresh herb, 14 June, Paris	Ra.		2.5
Salvia officinalis, v. major—fresh herb, 12 Mar., Grasse	Ra. Ra.		4.0
Salvia officinalis, v. major—fresh herb, 14 June, Paris			3.05
Santalum album—sandal-wood of commerce			5.0
Sinapis nigra—black mustard-seed, Germany, 12 months old			3.9
Sinapis nigra—black mustard-seed, Germany, fresh			5.0
Sinapis nigra—black mustard-seed, France, fresh			7.75
Sinapis nigra—black mustard-seed, France	Vo.		9.1
Tanacetum vulgare—fresh flowering herb, 9 July, Grasse	Ra.		1.2
Tanacetum vulgare-fresh flowering herb, 25 July, Paris	Ra.		5.8
Tanacetum vulgare—fresh tops, Germany	Da.		5.0
Tanacetum vulgare-dried flowering herb, Germany	Bl.		15.6
Thurse conidentalis ( ) aged stunted tree, exposed Oct 91	Chr.		10.8
Thurs and dentalis   Ilesii   agod vigorous t shaltared Oat 91			10.25
Thuya occidentalis, twigs young, vigorous: exposed. Oct. 9.			18.25
Thurs occidentalis   Hear   young, vigorous: exposed; fine			
son, sept. 20			26.40
Thymus serpyllum—fresh flowering herb, 6 Aug. Grasse			5.0
Thymus serpyllum—fresh flowering herb, 5 July, Paris	Ra.		0.9
Thymus vulgaris—fresh flowering herb, 16 August, Grasse	Ra.		6.5 3.75
Thymus vulgaris—fresh flowering herb, 13 July, Paris		****	30.16
Valeriana officinalis—dry root, a year old, Germany			15.0
Valeriana officinalis—the root, Germany			10.5
Verbena odorata—fresh flowering herb, Paris			3.1
Zingiber officinale—dry root of commerce	Ra.		10.8
Zingioer omemaic—dry root or commerce	Ita.		10.0

Volatile oils should be preserved in dark bottles, carefully closed and nearly full. When kept for any time, they are apt to undergo certain changes, becoming dark-colored, losing their agreeable odor, and growing thick and clammy. It is then necessary to re-distil them with a certain quantity of water, by which the undecomposed portion is again obtained in a pure state.

Another mode is to agitate with recently heated animal charcoal; this restores their clearness, and in a great measure their fragrance. On mixing colored volatile oils with some fixed oil and rectifying them by distillation with water, nearly all may be obtained colorless.

FIXED OILS AND FATS.—Fixed oils are obtained from the fruit or seeds of vegetables, by expression; by boiling the bruised seeds in water, and removing the oil that rises to the surface; and by dissolving out the oil by means of a menstruum.

By Expression.—This is accomplished in several ways: By means of the wedge press, or by a screw or hydraulic press, the former being the more generally employed. In almost all cases, it becomes requisite to heat the seeds gently, to render the oil more liquid; but care must be taken that the heat is not too great; otherwise, the oil will become of a dark color, and acquire an unpleasant taste. It is by this method that linseed and castor oils are obtained. The oil, as it comes from the press, is seldom pure or fit for use; it is freed from these impurities by boiling with water, and separating the pure oil. These oils are often colored, owing, in most cases, to heating the seeds too much; this is peculiarly the case with linseed oil, which is seldom seen of a light color.

By Decoction.—This is effected by boiling the bruised seeds in water, and skimming off the oil as it rises to the surface. This plan is also employed in making cod-liver oil, as well as in the manufacture of castor oil in the West

Indies.

By Solution.—This affords a very pure oil, but is seldom employed on account of expense. It is, however, useful in facilitating the extraction of some of the thick and viscid oils. Thus, croton oil is more readily obtained by mixing the ground seeds with half their weight of alcohol, and, after letting the mixture stand for some time, submitting it to pressure, and distilling off the spirit from the product. Bisulphide of carbon, and petroleum benzin have, of late, been much employed for the extraction of fixed oils.

Solution in ether is also useful in some cases, when expense is not an

object, oil of ergot is best obtained in this manner.

The solid oils, as oil of cacao, etc., require the aid of heat in their expression, and the ground material containing them is therefore placed between

heated plates in the press.

Animal Fats.—Formerly, the fats of many animals were employed in pharmacy; but, at present, those principally used are lard, suet, and beef's marrow. To render these fit for pharmaceutic purposes, the crude material is to be cut into small pieces, freed as much as possible from all extraneous substances, and placed in a boiler with water, and heated until it is fused, when the fluid fat is strained, slowly cooled, and carefully separated from the water. These fats are best preserved by being run into glazed jars, and kept from the action of the air.

Alkaloids.—The vegetable alkaloids may be obtained by a variety of processes, but these invariably comprehend decomposition of the alkaloidal salt in the crude drug, either by the superior affinity of an alkali, earth, or alkaline carbonate, or by double decomposition with some compound salt whose base forms an insoluble salt with the acid in the drug. Active neutral principles, and a few alkaloids—such as narcotina from opium, piperina from white pepper, picrotoxin from cocculus indicus, and elaterin from elaterium—may be obtained through the agency of such simple solvents as water, rectified spirit, and sulphuric ether, used singly or successively.

The solutions from which vegetable alkaloids are prepared are, in general,

obtained best by the method of percolation. Some experience is required to apply this process in all cases with success. But, when well performed, it is greatly superior, in general, to any other mode of extracting the active matters of vegetable drugs, in cases in which the liquid used is spirituous or ethereal; and it is often not less advantageous in the instance of water, as well as acidulous fluids. The precautions for applying it successfully have been considered under the head of tinctures.

Spirits are alcoholic solutions of volatile principles obtained by distillation.

When spirit is distilled with aromatic vegetables which contain volatile oil, the oil, for the most part, rises with the spirituous vapor, and condenses along with it in a state of solution. In some cases, the volatile oil rises with the vapor of strong spirit, so that alcohol may be employed for the purpose; and this is occasionally necessary for keeping the oil of the distilled spirit in solution. In other instances, the oil does not begin to pass over until watery vapor also passes in considerable proportion with the spirituous vapor; so that diluted alcohol is required for the process.

For most medicinal purposes, but especially the present, the menstruum

should be made by diluting alcohol with water.

The best apparatus for preparing distilled spirits is that represented at page 658, fig. 27. It has been proposed to prepare them by distillation in a vacuum-still; but many volatile oils will not rise with spirit-vapor at the low

temperature at which spirit boils in a vacuum.

These preparations, like distilled waters, may be obtained either from crude vegetable substances, or from their volatile oils. They are seldom, however, of such fine aroma when prepared in the latter as in the former way, unless care be taken to employ those volatile oils only which have been recently as well as carefully distilled.

Essences differ from spirits in being volatile substances dissolved in alcohol; but this name is generally applied to strong alcoholic solutions of the volatile oils. Many of the officinal spirits are now made simply by dissolving

the volatile oil in alcohol.

TROCHES, or Lozenges, are small, dry, solid masses, consisting of powders incorporated with sugar and mucilage. Some writers include under this name drops and pastes, making the following distinction between them:—

Lozenges, when the principal basis is sugar, and when the ingredients are

combined without the aid of heat.

*Drops*, when the principal basis is sugar, but when the ingredients are combined with the aid of heat.

Pastes, when the principal basis is a vegetable juice or pulp, and when the

mixture is of a soft consistence.

Lozenges are much more employed in Europe than in this country as a mode of administering medicines. In making them, the sugar is employed in a powdered state; the more active ingredients added in powder, or in a liquid state; and the whole mixed into a paste by the addition of mucilage. The mucilage generally used is that of tragacanth, as being more tenacious than that of gum Arabic. After the ingredients are properly incorporated, the paste is rolled out into a uniform sheet on a marble slab, previously sprinkled with some powdered starch to prevent adhesion, and cut into small cakes by means of a punch. These cakes are then to be placed on sieves, and kept in a drying-room until they have become perfectly dry and hard, when they are to be sifted, and kept in well-closed bottles.

Drops are formed from coarsely-powdered sugar, to which the flavoring or medicinal ingredients are added in a liquid state, so as to moisten the sugar.

The mixture is then melted in a proper vessel, over a clear fire, after which the melted mass should be allowed to drop in small portions on a marble slab or greased metallic plate, and when cold, be removed, and kept like lozenges

Pastes are usually formed of inspissated vegetable juices, or decoctions, with the addition of sugar, gum, etc. These are to be brought to a proper consistence, and the mixture poured into flat, shallow moulds, or rolled out, as in the case of lozenges, and divided into pieces of the desired size.

Inhalations.—These have, at different times, been much in vogue as a means of combating disease, especially complaints of the respiratory organs. Within the last few years, much interest has been excited relative to this mode of administering medicinal agents, from the remarkable anæsthetic effects caused by the inhalation of the vapor of ether and chloroform. The simplest form of using either of these is by pouring the requisite quantity on a hollow sponge, and applying this over the mouth of the patient. Various forms of inhaling apparatus have been invented, which will be found described in Mohr and Redwood's Pharmacy, 535-9, with directions for their use.

## EXTERNAL REMEDIES.

Baths.—By the term bath is meant the complete or partial immersion of the body in a fluid or gaseous medium, differing, in some circumstances, from that to which it has been accustomed. In order to obtain the full efficacy of a bath, without injurious consequences, its temperature should be regulated, and particularly prescribed by the physician ordering it. The following temperatures are those given by Dr. Forbes in the Cyclopædia of Practical Medicine:—

Cold Bath	between 33° and 60° F.
Cool Bath	" 64° and 75° F.
Temperate Bath	" 75° and 85° F.
Tepid Bath	" 85° and 92° F.
Warm Bath	" 92° and 98° F.
Hot Bath	" 98° and 112° F.

The effects of these different baths on the system are very dissimilar, according to their temperature, and the time during which the patient is subjected to their influence.

COLD BATH.—When a person plunges into a cold bath, he is first sensible of a sudden sensation of cold upon the surface, accompanied by an oppression of breathing, causing this function to be performed in convulsive gasps. This is called the shock, and is caused by a rapid contraction of the cutaneous capillaries, and a retrocession of the blood to the lungs and other internal organs. In a short time, the difficulty of breathing disappears, the temperature becomes agreeable, and if the person now leaves the water, a warmth of the surface comes on, termed the glow, succeeded by a sense of invigoration of the whole system. Should the person remain in the water for too long a time, another train of symptoms manifest themselves; the sensation of cold soon attains to an unpleasant degree of chilliness, followed by rigors; a bluish tint is perceptible on the surface of the body; the blood accumulates in the internal organs; and, on leaving the water, there is no reaction, or a very feeble one, the surface remaining cold, the extremities benumbed; and headache, difficult respiration, often pain in the chest, ensue, with a sense of depression and lassitude. The use of proper means will often remove these symptoms; but they may lead to a variety of diseases of the internal organs.

The objects in prescribing a cold bath are the production of a sudden and powerful impression on the nervous system, and the tonic influence it exercises when followed by due reaction. In the first of these, it has been found useful in certain affections where there is a derangement of the functions of sensation, of motion or sensation unattended with a congestive or inflammatory condition of the internal organs; but it is more frequently ordered to fulfil the second indication.

It is always contra-indicated when, from debility, the system does not react so as to produce a glow; when there is a tendency to congestion of the cerebral vessels, or any serious organic affection of the heart, lungs, or kidneys. In all cases, it is advantageous, before taking the cold bath, to take such exercise as will raise the circulation, without occasioning fatigue or perspiration, for reaction is almost certain to follow the immersion, except when the person has remained in the water too long a time. The period of immersion should not exceed five minutes.

COOL BATH.—The action and uses of this are similar to the last, but are less powerful. It is, therefore, better calculated for those who are much debilitated.

Temperate Bath.—As the temperate bath is of a temperature closely approaching that of the body, the shock and subsequent reaction are almost wanting. It is, therefore, much more employed for purposes of comfort and cleanliness than as a remedial agent. In delicate persons, it should always be used instead of the cold or cool bath, and is always better suited to very young children than lower temperatures.

Tepid Bath.—This is intermediate in operation between the temperate and the warm bath, and varies in effects and uses according to the temperature. In perfect health, it should not be used as an habitual indulgence; but, for the purposes of cleanliness, an occasional recurrence to it allows of a more perfect ablution than can be effected by cooler baths. It is better to use it about noon, when the first process of digestion of the morning meal is over, and immediately afterwards to take brisk exercise in the open air. In cases of fatigue and febrile irritation, from over-exertion or a long journey, the tepid bath is generally found very beneficial. It is also serviceable to persons of sedentary habits, etc. In all such cases, however, it is not to be employed immediately after a meal, or when the individual is unduly excited, either mentally or corporeally. In one class of complaints, those dependent on gastric irritation, the tepid or even the warm bath proves of much service.

Warm Bath.—The first effect of a warm bath is to produce a sensation of heat upon the surface, and to increase the pulse in quickness and fulness, though in most cases to diminish its tenseness. The cutaneous circulation more especially becomes affected, and the body is increased in bulk, as shown by the increased pressure of ligatures, or of rings upon the fingers. The secondary effects, when the immersion is continued for some time, are muscular relaxation, sometimes to a considerable degree; even after leaving the bath, a disposition to lassitude continues for some time, with a tendency to perspiration.

The remedial effects of a warm bath depend on its temperature, the time a patient remains in it, and the subsequent treatment. The medium time for remaining in the bath is from twenty to twenty-five minutes; but this must be regulated by the effect produced. It is beneficial in incipient catarrh, in some congestions of the internal organs, chronic rheumatism, and in spas-

modic affections, especially those of children; but is contra-indicated in active fever, or when there is congestion, or a determination of blood to the head.

In the convulsions of children, its effects are remarkably beneficial, as it not only relaxes spasm, and relieves for the moment, but soothes nervous irritation. In cases where the convulsions are severe, it will be found advantageous to apply cold water to the head. When a warm bath is administered to a child, care must be taken not to expose it to the cold air for the purpose of drying its body; the best plan is to envelop it in a warm blanket, and to place it in bed at once. By this plan, it is not liable to take cold, which is a common objection to the use of the warm bath for children.

Hot Bath.—From its temperature being above that of the body, the hot bath is far more stimulating than the preceding, as evinced by the excitement of the pulse, the sensations of fulness in the head and throbbing of the cerebral vessels. Its use is principally confined to cases where it is wished to arouse nervous energy and vital action, as in Asiatic cholera, etc.; or where there is a sudden retrocession of cutaneous diseases. It has also proved useful in certain forms of rheumatism and paralysis. As the intention is mainly to induce excitement, the patient is not to be exposed to its action long enough to cause exhaustion.

Whatever description of bath is ordered to be used, the original temperature is to be maintained during the whole time the patient remains in the water. At the end of some minutes, therefore, the heat should be tested by a thermometer, and, if requisite, hot water added. The sensations of the

bather are always a fallacious criterion.

Shower Bath.—This is a modification of the cold affusion, being attended with the same effects, but in a less degree. The short duration of it renders it less refrigerant than the cold bath, and causes the primary shock to be the most important part of the influence it exercises, which may be modified by increasing or diminishing the temperature of the water, or that of the height from which the fluid falls. It is used either cold or tepid. The former is most advantageous when the powers of the system are sufficient to cause a reaction, that results in a glow on the surface, soon after using the bath; but, where this is not the case, as in debilitated individuals, the temperature is to be increased. It is adapted to those cases where a powerful impression is wished to be made upon the nervous system, as in chorea, hysteria, etc., and is also of much benefit to persons subject to determination to the head. In such cases, it is found advantageous to make the patient stand in hot water at the time of taking the bath. The reaction following its use is much promoted by using friction to the surface. The improved and portable shower baths, now to be procured, obviate many of the objections to its use which formerly existed. For children, the best and most convenient apparatus that can be employed is one described by Dr. A. T. Thomson. (Domestic Management of the Sick Room.)

"It consists of a hollow vessel made of tin, with a perforated bottom. The body of the vessel is of a bell-shape, with a hollow tube rising from the top, and terminating in a broad perforated rim. When the bath is to be used, it must be sunk in a bucket of water, until it is completely submerged; the air is thus driven out of the bath, through the tube, and the bath filled with water. The thumb of an attendant is then to be placed on the opening in the centre of the rim, and the bath raised from the bucket of water. The pressure of air upon the holes in the bottom retains the water in the bath; and, on raising the thumb from the upper orifice, the whole is rapidly discharged. In using it, the child must be placed in an empty tub, and the bath, being held over his head, is then to be discharged; and the child imme-

diately afterwards dried, with friction. When salt water is used for this bath, the hair should be kept dry by means of an oil-skin cap."

LOCAL BATHS.—These are most frequently used warm. The most common are the hip-bath and foot-bath. They are principally employed as revulsives. The first has been found a valuable remedy in diseases of the womb, and in irritations of the pelvic organs. Where it is employed merely to soothe pain, the temperature should not exceed 80° to 90°, and the patient is to remain in it for some time; but when it is intended to excite the uterus to greater action, it should be as hot as can be borne by the patient, though the continuance in it should not exceed ten to fifteen minutes. The hot foot-bath should be of as high a temperature as can be borne, so as to redden the skin of the immersed parts effectually. The vessel used should be sufficiently deep to allow the legs to be immersed nearly to the knees. It is a valuable remedy in the early stages of catarrh, and local congestions of the head, chest, or abdomen; and in the dyspnæa accompanying hypertrophy of the heart, it has often proved very beneficial. It may be rendered more stimulating by the addition of common salt, carbonate of potassium, or flour of mustard. In torpid states of the liver, a mixture of nitric and muriatic acids, in the proportion of about an ounce of each to every gallon of water, often proves highly useful.

VAPOR BATH .- This consists in either wholly enveloping the patient in the steam of hot water, or merely his body, or some of its parts. A much more elevated temperature can thus be borne than where the body is immersed in water, and its action is more confined to the skin; hence, although less stimulating, it is more diaphoretic than the hot bath. Where the vapor is inhaled, the heated surface being extended, it is more powerful in its effects. It has proved of great benefit where an active revulsion to the surface is indicated, and also in the treatment of cutaneous diseases. It can be applied with little trouble. All that is required is that the patient be seated on a chair with a vessel of hot water placed beside him, and the whole enveloped with a blanket, to be thrown over his head if the vapor is to be breathed, or pinned around his neck where this is not the case. The steam soon surrounds his body, and causes a copious perspiration; and, should it cease too soon to be evolved, its generation may be restored by dropping a heated brick or stone into the water. Where the vapor is not respired, it may be used of a higher temperature.

The Warm Air Bath is more stimulating than the vapor bath, producing —especially where the warm air is also breathed—general uneasiness, heat of skin, excitement of the pulse, until a general perspiration ensues. It is readily administered even to persons in bed. The bedclothes should be elevated by a light frame, and the heated air be admitted by means of a tube. It has been found beneficial in chronic rheumatism, and was at one time much praised in the collapsed stage of cholera.

Douches consist in the forcible application of a stream of hot or cold water to a part of the body, in such a manner that the force of the stream of the fluid shall aid the stimulant effect. The hot douche may be formed by pouring from a height hot water from a tea-kettle, or through a tube about an inch and a half in diameter, so as to cause the fluid to strike forcibly upon the affected part of the body, whilst at the same time percussion is employed; or, in other words, the part is beaten by means of a caoutchouc bottle, stuffed with wool, and affixed to a cane handle.

A temperature of 160° is readily borne in douching. When the disease

is chronic rheumatism, or when deep-seated pains are to be removed, the douching should be continued for either half or three-quarters of an hour at a time; and the patient should be afterwards placed in bed between blankets, in order to encourage sweating. The most decisive advantage, in enlarged, stiff, and painful joints, results from this mode of douching.

In cases of complicated fevers, and in some other diseases, in which inflammation of the brain occurs, the cold douche is frequently ordered. The mode of applying it consists in pouring a stream of cold water on the shaved head. The patient should be raised in bed, and the head held over a basin, or other vessel, whilst a stream of cold water is directed on the crown, and the fall of the water gradually increased. After this, the head should be merely dried, but not rubbed. It not only soothes the patient, but often induces sleep, although it usually causes a most uncomfortable feeling at first; but relief is so quickly experienced, that its repetition is generally requested by the invalid.

A vapor douche is very stimulating, and when of a high temperature, and continued for any time, will cause vesication. It may be used as a

counter-irritant instead of moxa.

Medicated baths are such as contain medicinal agents in solution in the water, and are used both topically and generally. Saline, acid, and alkaline substances, with iodine and sulphur, are the materials most commonly employed. Medicated baths are sometimes natural, as those of sea water and certain mineral springs; others consist of solutions of various articles, artificially prepared. Of the medicated baths, sea water is the most generally used, more, however, for pleasure than for remedial purposes. It is not only stimulating, on account of its saline constituents, and its use followed by a perfect glow, but these constituents also exert a medicinal action on the system in certain diseases of debility. The nitro-muriatic acid bath has been found useful in diseases of the liver; and alkaline, ioduretted, and alkaline sulphuretted baths are advantageously employed in many forms of cutaneous disease.

Medicated *vapor* baths are prepared by impregnating aqueous vapor with the volatile principles of medicinal plants, though it is very doubtful whether they produce any effects that cannot be obtained from the simple vapor bath. But the fumes of sulphur, chlorine, camphor, mercury, etc., in combination with aqueous vapor have been found to exert powerful effects on the system, and to be very effectual in the cure of certain diseases.

Affusion.—This consists in pouring or dashing a quantity of water on the body, or a portion of the body, from an inconsiderable height, most generally for the purpose of reducing its temperature; but it is also employed as a revulsive agent, and to give an impulse to the nervous system. Affusions are made with cold or tepid water. Cold affusion is one of the most powerful general means of abstracting caloric from the body, we possess; it not only lessens the temperature of the surface, but it diminishes the action of the heart. It has been successfully employed in the treatment of fevers, but its use requires much judgment as respects the time of its application, which, according to Currie and others, is "when there is no sense of chilliness present, when the heat of the skin is steadily above what is natural, and when there is no general or profuse perspiration." It should not be employed either in the cold or sweating stage of fever, or in the hot stage where the heat does not much exceed the natural standard. From inattention to these circumstances, and from patients being injured by its effects, affusion is not at present often resorted to in the treatment of fevers. In scarlatina and some other of the exanthemata, it has been employed with

benefit, to reduce the morbid heat of skin. It is, however, more relied upon in inflammatory diseases of the brain; in these cases, the water is to be poured upon the head, inclined over a basin or tub, by means of a pitcher. In children, it is sufficient to squeeze a large sponge, previously saturated with cold water, at some height above the head. Where a general affusion is deemed necessary, the patient should be taken out of bed, his head having been previously shaved; and, being stripped naked and placed on a stool in an empty tub, from three to five gallons of water, at a temperature not under 40° Fahr., should be thrown over him. This affusion should be repeated until he feels cold, or rather until a rigor or shivering, or even chattering of the teeth, is experienced. He should then be dried, placed in bed, and a little warm wine and water administered to him, to aid the reaction and the consequent perspiration.

But in cases where the invalid faints on raising him into the erect position; where he feels chilly, although the thermometer indicates a high febrile temperature; where the skin is bedewed with perspiration; where the patient is a woman, and the monthly change is present; or where the operation is dreaded, it ought not to be employed. The evening is the best time for

using the cold affusion.

Cool affusion is sometimes used instead of the cold, and is preferable for weak, irritable individuals. Tepid affusion is also beneficial in certain cases; especially where there is a fear that perfect reaction will not take place after the application of cold water; or where disease of the pulmonary organs exists. It has been found very efficacious in scarlatina, as also in hectic fever. Warm affusion has likewise been used; but its effects are far more temporary than those of the warm bath.

Sponging.—The object of sponging the body, either with cold or with tepid water, is to reduce the heat of the surface by means of evaporation, with the view of softening the pulse and diminishing its frequency; of rendering the skin perspirable; of relieving headache, checking delirium, and promoting sleep. In order to perform it well, the patient should be taken out of bed; and, being undressed and placed in a chair, two or three persons should, at the same time, pass large sponges, wet with simple cold or tepid water, or vinegar and water, rapidly over different portions of the naked body, until the whole of it shall have been successively sponged, and a chill has come over the patient, who is then to be dried and placed in bed.

This appears to be a simple process; but it requires both caution and judgment to determine on its use, and to render it not only salutary but free from danger. For example, if, notwithstanding the continuance of great heat and dryness of the skin, a sensation of chilliness comes over the patient when the sponging is about to be done, the operation should be delayed; neither should it be done if the smallest tendency to perspiration, indicated by moisture in the axillæ, or on the palms of the hands, displays itself. But, if it has been done, and if partial relief has been obtained, if the heat of the skin returns, and the pulse rises, it may again be resorted to and repeated.

But, besides the advantages to be obtained from sponging, during the presence of disease, it is also productive of great benefit in warding off diseases, or in a prophylactic point of view. The sponging, however, under such circumstances, is to be performed in a different manner from that which

has been described.

In those predisposed to asthma and to bronchitis, known in ordinary language by the term *cold* or *cough*, and in those, also, who are predisposed to *croup*, nothing is so serviceable in warding off the paroxysm of the former disease, or in preventing the attack of the latter malady, as cold and tepid

sponging of the chest and the trunk of the body. It is also equally serviceable during dentition in infants, and as a general tonic in delicate conditions of the system. In these cases it should be followed by gentle friction over

the surface of the body.

Sponging the body, as a prophylactic, or as a tonic, is always most efficacious when it is performed whilst the patient is still in bed. Let him sit up; or, if unable to do so, let him be raised into the sitting position, keeping the lower limbs under the bedclothes. The night-shirt or night-dress is then to be stripped down, and a large towel or sheet put round the waist to prevent the bedelothes from being wetted. The naked trunk of the body and the upper part of the arms are then to be moistened with a sponge, or a piece of flannel, dipped either in cold or tepid water, or vinegar and water, or salt water, as the case may demand; after which, in drying the skin, if water only has been used, brisk friction should be employed, so as to cause a general glow upon the surface. In some cases, salt and water, or vinegar and water are preferable to the simple water. The best proportions are two ounces of salt, or the same quantity of common vinegar, to a pint of water. When these adjuncts are used, friction is not required; indeed, when salt water is employed, the skin should be dried with a soft, old towel, fitted to soak up the water only, and to leave the saline particles upon the surface.

The best time for using such spongings is just before getting out of bed in the morning. They may be used in winter as well as in summer. In efficacy they are certainly nearly equal to the shower-bath, which may be resorted to in vigorous habits; but when the habit is delicate, and not equal to the reaction, on which the beneficial influence of the shower-bath rests, sponging is preferable. It should not be used when perspiration is

present.

Sponging is as beneficial as the shower-bath in rendering the habit less susceptible to cold; and, when conjoined with exercise in the open air and proper regimen, not only asthma, coughs, and catarrhs may be warded off by its employment, but the predisposition to tubercular consumption may be lessened, in a very remarkable degree, by its daily employment.

Fomentations.—These may be regarded as a species of local bathing. Although the decoctions usually employed are useful in aiding warmth, by their soothing or sedative influence, yet they are secondary objects in the application of fometations, the intention being to convey heat, combined with moisture, to the part fomented. Flannel cloths, wrung out of boiling water, by means of two sticks turned in opposite directions, form the best fomentations. If they be shaken up, and laid lightly over the part, they involve a considerable quantity of air, which, being a bad conductor, retains the heat in them for a considerable time. In every process of fomenting, there should be two flannels, each three yards long, with the ends sewed together, to admit of the boiling water being wrung out of them; and the one flannel should be got ready whilst the other is applied. The fineness or the coarseness of the flannel is not a matter of indifference: the coarser it is the less readily does it conduct heat, and the longer it retains its warmth; therefore, it is more efficient for fomenting. White flannel also retains the heat longer than colored flannel.

Stuping is a variety of fomentation useful in many cases, but especially in affections of the eyes. The patient should be his own operator. He should sit up in bed, and should place, in the hollow of his hand, a small piece of flannel, wrung out of boiling water, and hold the hand at such a distance under the eyes that the vapors may rise to them—changing the flannel as often as it ceases to give out warm vapor. If narcotic or sedative

additions are directed, they should be poured hot upon the flannel each time it is changed.

Cataplasms, or Poultices, are modifications of fomentations; they generally consist of pulpy substances capable of absorbing much moisture, and of such consistence as to be applied accurately to any surface, however irregular. Their action, in most cases, depends upon the liquids with which they are moistened and the heat retained by the mass. Cataplasms may be emollient, medicated, or revulsive.

Emollient Cataplasms are usually made of bread and water, linseed meal, Indian meal, slippery elm, etc., and water; or of mashed vegetable sub-

stances, such as carrots and marshmallows.

As warmth and moisture are the principal effects of emollient poultices, an excellent substitute for them is lint, dipped in warm water, and laid over the diseased part; the lint should be covered with a towel, in order to prevent evaporation. This mode is much neater and more cleanly than any poultice, and where merely warmth and moisture are required, it will answer all the purposes intended. A peculiar fabric, called spongio-piline, consisting principally of sponge, has lately been invented in England, which is said to answer very well, when properly imbued with hot water, as a substitute for the simple emollient poultice.

The addition of a little lard is useful, if the poultice does not require to be frequently changed. When the object, however, is to promote suppuration, the poultice should be frequently renewed, in which case the addition

of the lard is unnecessary.

Poultices should never be heavy, nor very bulky, but they should be frequently repeated. They are useful, in all cases of inflammation which cannot be backed, to assist the suppurative process and the advancement of the matter to the surface. After an abscess is opened, the poultices should still be continued for a few days. Poultices may be used, also, as fomentations in colic, and in inflammation of the bowels. In such cases, however, as the chief object is to allay pain and to soothe, they should be made with a decoction of poppy-heads, instead of water.

Medicated Cataplasms are those in which, to the simple emollient poultice, are added other ingredients, intended to exercise an influence on the part independent of mere warmth and moisture; as, for instance, the fermented poultice, in which yeast forms a constituent, the charcoal poultice, and various others enumerated in the Formulary, all intended to fulfil certain indi-

cations.

Revulsive Cataplasms are those which, by inducing a local irritation or inflammation of the parts to which they are applied, act as derivatives. To this class belong mustard poultices, or Sinapisms, Cayenne pepper, garlic

poultices, etc.

Mustard poultices are made by rubbing the flour of mustard, of the shops, with water, into the consistence of a paste. When it is wished to have a weaker preparation, wheaten, rye, or linseed flour is to be added to the mustard in such proportions as are deemed sufficient. The water used should be tepid, or merely warm; a boiling temperature is injurious, as it tends to coagulate the albumen of the mustard, and thus to prevent the extrication of the volatile oil, which is the active principle. Vinegar is often used, but never increases the energy of the preparation, and, in the case of the black mustard, diminishes its power. This poultice should be spread thickly on a rag, as soon as it is prepared, and covered with gauze or tissue paper, in order to prevent adhesion to the skin. In a few minutes after it is applied, the sinapism causes a sensation of heat, which increases to almost intolerable burning. After some time the pain subsides, and is followed by a sense

of weight and throbbing of the arteries. If the sinapism be left on, however, the burning pain again returns, and becomes so great, that few persons can bear the action of a mustard cataplasm longer than three-quarters of an hour.

In delicate, sensitive people the sinapism need not remain applied above six or eight minutes, as the effect continues some time after its removal. If it remains too long on, gangrene may supervene; this cannot happen unless the invalid be insensible, as too much pain is felt to permit the lengthened application of a sinapism; but, in cases of stupor or insensibility, or in low fevers, a sinapism, if left on longer than an hour, may cause both vesication and gangrene. If the redness only is required, the pain may be moderated by mixing with the paste a drachm of tincture of opium, or two drachms of tincture of henbane, neither of which, although they allay the pain, diminishes the rubefacient activity of the sinapism.

As a substitute for the mustard poultice, where mere external irritation is required, the capsicum or red pepper will answer admirably, and it has the advantage of not vesicating: it may be used as a poultice, by mixing the powder with bread and milk, or Indian meal, or as a lotion mixed with warm spirits.

Lotions, Liniments, Embrocations, are medicines of a more or less fluid character, which are employed as external applications. They may be used as mere fomentations to soothe pain and remove inflammation, as a mode of introducing medicinal substances into the system, or as revulsive agents, according to their nature and composition. Liniments, which generally contain oily constituents, are usually aided by friction of the part to which they are applied, either with the hand alone, or with some article capable of exciting some irritation of the skin, as a piece of flannel or a soft flesh-brush. In many cases, in which liniments are found beneficial, the advantage obtained from them is attributable rather to the friction than to any medicinal power in the lotion itself.

Frictions, whether simple or conjoined with liniments, are frequently important aids to medical treatment. Simple friction is performed by the hand alone, or with a piece of flannel, a hair glove, or a flesh-brush. If it be properly performed, namely, by short, brisk strokes with the tips of the fingers, and with great celerity, when the naked hand is the agent; and if it be continued for an hour or upwards, and repeated several times a day—its influence in reducing swelled glands and swellings of the joints, as well as in alleviating rheumatic pains, is very great; but, besides being well performed, the friction should be continued for half an hour, in order to render

it useful.

Friction, when performed in a gentle, slow, and equable manner, by producing a continued repetition of an agreeable impression on the nervous system, acts as a soother of pain, independent of any aid from opiate liniments, and also induces sleep. The beneficial influence depends, in a great measure, on its transferring the attention of the sufferer from the seat of pain, and confining it to the mild and agreeable sensation impressed by the friction. In performing it, the operator should sit by the side of the bed, and, introducing the hand under the bedclothes, rub the legs or the arms gently, with equally lengthened, but slow movements. When the invalid is a child, its influence is more powerful when aided by a monotonous, but a soft tune, which, although it operates upon a distinct sense, yet, by combination, renders the friction more soporific.

When friction is intended to stimulate the surface, it is necessary to aid its influence by liniments containing ammonia, or camphor, or some other excitant or acrid substance; but these should be ordered by the medical attendant. In applying them, the same method should be adopted as when

simple friction is employed; but the hand of the operator must be guarded

by a glove from the influence of the acrimony of the liniment.

Friction is also used to introduce various substances—namely, mercurials, iodine, opium, etc.,—into the body through the medium of the skin. The rubbing, in such cases, ought to be brisk, and applied with sufficient force to abrade slightly the cuticle; and continued until the substance, which is usually in the form of an ointment, disappears, owing to the absorption by the skin induced by the friction. In using such frictions, the hand of the operator should be guarded by a glove; otherwise, he is likely to suffer salivation, or some other unpleasant result, from the introduction of the medicinal agent into his own system.

Vesicatories, or Blisters, have already been noticed in the introduction (p. 75), and do not require to be further commented upon.

Issues are small ulcers artificially established for the purpose of procuring and keeping up a discharge of pus. They form an important derivative remedy in many diseases, and are to be formed by the following methods: the simplest is by the application of a small blister, which is to be dressed with some epispastic or irritating ointment. It is, however, difficult to prevent the sore from healing, and the discharge is seldom sufficiently copious. They are also formed by making incisions through the skin, and inserting issue peas into the wound. The best and most effectual plan is by the use of caustic; this is done by means of a piece of leather, spread with adhesive plaster, through which a hole is made of the size of the intended issue; this is to be warmed and applied to the skin, so as to apply closely. The aperture is then to be filled with the caustic, in the form of a paste, and covered with another piece of leather, spread as above. These are to be left on until the skin is destroyed, and then to be removed and a poultice applied until the eschar separates. The late Dr. Wistar was in the habit of recommending the application of a small blister, and of rubbing the vesicated surface with caustic potassa for a few minutes. This is an expeditious and excellent method, as it is effectual and gives but little pain. The issue is kept open either by the introduction of peas, or a piece of lint smeared with the ointment of savine, into the wound. The peas operate by mechanical irritation; and, as they swell from the action of the heat and the moisture of the ulcer, they tend also to enlarge the wound. The peas should be changed at least once in twenty-four hours. Instead of the peas, it has been advised to use a small block of hard wood, with the lower surface cut into lozenges; these, pressing on the surface of the sore, occasion a copious discharge, and it will be found more convenient of application than peas. The very irritation, however, by which the discharge is maintained is apt to cause fungous growths from the bottom of the wound, which should be kept down; this is to be done by dressing the issue occasionally with some escharotic, as burnt alum or red precipitate. Issues should be washed twice a day with warm water; otherwise, they are apt to become very offensive.

Setons are wounds kept in a suppurating state by means of some foreign body, which prevents their healing. They are made by passing a seton needle, armed with a skein of silk, thread, or a slip of gum elastic, through a folded portion of the skin, withdrawing the needle, and leaving the silk in the wound. If a seton needle cannot be procured, the puncture may be made with a thumb-lancet or bistoury, and the silk passed through the wound by means of an eyed probe. The edges of the wound are apt, however, after it has been discharging for some length of time, to become callous, and the discharge to cease. When this occurs, the irritating substance should

be smeared with some stimulating ointment. It should be recollected that much mischief may result from suddenly suppressing or removing either an issue or a seton. If this takes place, purgatives should be administered, and the discharge of the issue or the seton checked as gradually as possible.

OINTMENTS are simple or compound fatty bodies of a soft consistence, which are applied to the skin by inunction. They are more consistent than liniments, but softer than cerates. Simple ointment consists of one part of wax and four of lard, melted together and thoroughly mixed. This preparation is the basis of many compound ointments. Compound ointments are of three kinds: one consisting of simple ointment, combined mechanically with various substances; the second, formed by dissolving the active ingredients in melted ointment or lard; the third, made by uniting substances to

the fatty matters that induce a chemical action between them.

Compound ointments of the first class are mixtures of the fatty basis with various solid and liquid substances; these are incorporated by trituration in a mortar, or on a stone slab. When hard substances enter into the combination, they require to be previously reduced to a fine powder, or, if they are soluble, to be rubbed into a paste with an appropriate menstruum, and then admixed. When extracts form constituents of an ointment, if they are not of a soft consistence, they should be rendered so by trituration with water before they are mixed with the fatty body. The mixture of two or more ointments may be effected by rubbing them together on a stone slab by means of a spatula.

Compound ointments of the second kind are made by boiling recent vegetable substances in the fatty basis, until all the water of vegetation is driven off; the heat should then be reduced to about that of boiling water, when the ointment is to be strained. Those of the third kind, as citrine ointment, are prepared by adding the constituents gradually together, aided by heat

and constantly stirring.

Ointments are preserved by keeping them in glazed jars, with the surface covered with tin foil. According to M. Deschamps, the admixture of a twenty-fifth part of benzoin with the fatty matter used to make the ointment, will prevent or greatly retard the process of decomposition. An ointment of benzoin is now officinal. In the case of ointments for highly irritable surfaces, this plan answers well; where it is inexpedient, the ointments should be renewed at short intervals. The use of yellow in the place of white wax, as formerly employed, likewise prevents the decomposition of the fat.

CERATES consist of a basis of wax and a fatty matter, with which other substances are incorporated. They are of such a consistence as to be softened, but not melted, by the warmth of the body. The general directions

for making them are similar to those for ointments.

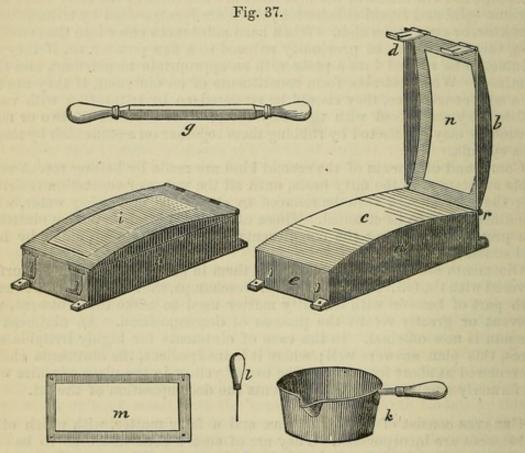
Many preparations of the present class are made by simply mixing or triturating their component parts together. But when resins, wax, spermaceti, or concrete oils are to be mixed either together or with fluid oils, it is better to unite them with the aid of heat, which not only liquefies the solids, but likewise renders them much more soluble in the liquids. Brisk agitation is required while the mixture concretes on cooling; otherwise, the solid ingredients will separate either mechanically or by crystallization. Even in purifying lard or suet by fusion and filtration, it is right to stir the mass as it cools; otherwise, the stearin or solid oil is apt to separate in part from the elain or liquid oil, so that an irregular mixture of the two principles is obtained. A gentle heat is sufficient for making ointments, cerates, and the like, because most of the ingredients are easily fusible; and a strong heat must be avoided, for in that case acrid acids are engendered, which may

alter the properties of the preparation. Hence the vapor-bath is generally used for applying heat; and it ought always to be employed in operations

on a large scale.

When the cerate is intended to irritate and not to soothe, a high temperature or prolonged application of heat may be employed, which, in some cases, is advantageous, as in the cerate of cantharides, by more effectually dissolving out the active principle.

PLASTERS are more consistent than cerates, adhesive at the temperature of the body, and requiring the aid of heat to soften them sufficiently to be spread. They are of two kinds; one consisting of a compound of olive oil and litharge, or an oleo-palmitate of lead, having the common lead plaster as a basis, united to resinous or other substances; the other, composed wholly of resinous matters, or these mixed with fatty substances or wax.



APPARATUS FOR SPREADING PLASTERS.

Fig. 37 represents a convenient apparatus for spreading plasters. ace is a solid block of wood, rather larger than the intended plaster, and having the upper surface c made slightly convex; b d is a tinned sheet-iron lid to cover the block, to which it is fastened by the hinge r, and further secured by the clasps seen at d; n is an oblong opening in the cover of the exact size of the plaster; m is a frame for marking the leather into squares. The leather, thus prepared, is placed on the convex surface c, the lid bd is turned down and fastened by the clasps, as seen in the figure ih. The plaster melted in the pan k is then poured on the leather i, and, by means of the iron instrument g, is spread uniformly over its surface. When cool, it is separated from the frame by passing the sharp-pointed instrument l around its inner margins.

In making plasters, it is necessary, in most cases, to operate at a temperature that will not volatilize or carbonize the ingredients; hence, a waterbath or steam heat is preferred. In the case of the burnt plaster (onguent de la mère of the Paris Codex), sufficient heat is employed to cause the fats to fume. Plasters should be made in metallic vessels, much larger than will contain the substances to be operated upon, as the mass increases in bulk by the action of heat causing an extrication of vapors. The water ordered in making lead plaster should be added at the commencement of the process;

otherwise, when poured on the melted mass, it may cause a projection of portions of the heated materials on the operator. The ingredients should be thoroughly stirred together during the process of melting. When this operation is concluded, the plaster is to be removed, in small portions at a time, into a vessel constantly supplied with cold water; and, when sufficiently consistent, rolled into cylinders on a wet marble, and again placed in cold water to harden. To render plasters of a lighter color, they are kneaded and pulled under water; but this process should not be practised on compound plasters containing substances soluble in water; nor should these plasters be cooled in water, but suffered to chill on a marble slab until fit to be made into rolls. Some of the officinal plasters belong to the second class, and are made by melting resinous matters with the addition of certain oleaginous substances or wax.

Plasters are preserved by enveloping the rolls with oiled paper, to exclude the air as much as possible. When kept for any length of time, they are apt to become hard and brittle, and to lose their color. When this is the case, they should be re-melted by a gentle heat, and sufficient oil added to restore

their proper consistence.

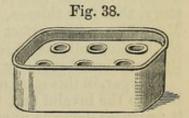
Spreading plasters for use requires skill and address on the part of the operator. They are spread on various textures, but most generally on linen or cotton cloth, or leather. The shape and size must be regulated by the part to which they are to be applied. The plaster is to be spread on the leather or cloth by means of a heated spatula of a peculiar form; this is brought in contact with the end of a roll, which, becoming liquefied, can then be evenly diffused over the surface; or the plaster is carefully fused by heat, and when it has acquired a thick consistence, it is evenly and smoothly spread over the material by means of a spatula heated sufficiently to keep it of a soft consistence. Where the plaster is sufficiently adhesive to maintain its place when applied to the body, it is to be spread so as to leave about half an inch of margin uncovered; but where it does not possess this quality in sufficient degree, it should be surrounded with an adhesive margin, which is to be prepared before spreading the body of the plaster. Full and particular directions for spreading plasters will be found in Procter's edition of Mohr and Redwood, p. 516, et seq.

Suppositories.—The pharmacopæia gives the following directions regard-

ing their preparation :-

"Mix the medicinal portion with a small quantity of oil of theobroma, by rubbing them together, and add the mixture to the remainder of the oil of theobroma previously melted and cooled to the temperature of 95°. Then

mix thoroughly without applying more heat, and immediately pour the mixture into suitable moulds having the capacity of thirty grains each. The moulds, previously made cold, must be kept so by immersion in iced water. All difficulty in removing suppositories from the moulds may be obviated by having the moulds previously dusted with lycopodium. In the absence of suitable moulds, suppositories may be formed by allowing the mixture, prepared as above, to cool, care having been taken



SUPPOSITORY MOULDS IN THE REFRIGERATOR.

to keep the ingredients well mixed, and dividing it into parts, each of which shall weigh thirty grains, and may be made into a conical or other convenient form for a suppository."

If moulds are not employed in preparing suppositories, it has been suggested to reduce the butter of cacao, by grating and sifting, into an uniform powder, with a portion of which the medicinal ingredients are to be thoroughly

mixed upon a porcelain slab; the remainder of the butter of cacao is then added, and if care be taken to avoid too much friction, so that the oil is not liquefied, the mixture may at once be rolled out into a cylinder, which is then divided into the requisite number of equal parts, each of which is rolled into a conical shape, either with the fingers or by means of a spatula.

Suppository moulds are made of pewter or brass; a convenient mould for six or more suppositories may be made of plaster of Paris, as suggested by

C. E. Dwight in American Journal of Pharmacy, 1873, p. 5.

Fumigations are extrications of vapors or gases, designed to modify the air of a sick chamber, and to mask any unpleasant odors that may be present, or to produce a medicinal effect on those parts of the body with which they

are brought in contact.

Fumigations, for the purpose of obviating or masking unpleasant odors in a sick room, should never be employed to supersede ventilation and cleanliness; for most of them, instead of purifying the air, only render it more unfit for respiration. They are generally made by burning pastilles, sugar, juniper berries, benzoin, etc., so as to create an odoriferous smoke. As disinfecting agents, they are utterly useless; and are relics of an ancient custom of burning frankincense and other odorous substances in vitiated air, to overcome the fetor which is more or less present. They disguise unpleasant odors; but they accomplish nothing more. The infection remains not only unaltered by the diffusion of the most powerful aromatic vapors, but its deleterious properties are sometimes augmented by them.

The fumes of burning camphor, and the vapors arising from its tincture, have more pretensions than either of the above to the name of a useful article of fumigation. It is much employed and confided in on the Continent; but the experience both of American and British physicians does not warrant the opinion that it possesses any power of destroying infection or contagion. Nothing is more ridiculous than the custom, which was at one time very general, and which is still continued to a certain extent—namely, that of carrying a camphor-bag about the person, as a protection against infectious

diseases.

Vinegar is, not without reason, regarded as possessing some chemical influence in decomposing infectious and contagious matters; and consequently, it is almost invariably sprinkled over the floor of the rooms of those suffering under infectious diseases; or the vapor of hot vinegar is diffused through their apartments. It is thought to be still more salubrious, and a more powerful disinfectant, when it holds camphor or aromatic oils in solution; hence the great popularity of the preparations called Aromatic Vinegar and Thieves' Vinegar (see p. 87). The repute of the latter is founded upon a story, that four thieves, who plundered the dead bodies during the plague at Marseilles, with perfect security, on being questioned respecting the cause of this impunity, confessed, on the condition of their lives being spared, that they attributed it solely to the use of Aromatic Vinegar.

Vinegar, in this state of combination, is extremely agreeable and refreshing, both to the invalid and the attendants of the sick room. The benefit which it produces depends upon a certain degree of stimulus imparted to the sensitive nerves, which are generally in a low condition in an infectious atmosphere; but, as a chemical agent, its powers are too feeble to be followed by much benefit. It is, however, always refreshing, and is much better adapted for overpowering the unpleasant odors of the sick room than any of the

former substances.

The most efficacious fumigations that can be employed are those of chlorine. This disinfecting gas is extricated from a mixture of common salt, black oxide of manganese, and sulphuric acid (see p. 222). Instead of

chlorine disengaged in this mode, it is more common to use the chloride of lime, the chloride of soda, or the chloride of potash; solutions of either of these, placed in shallow vessels in a room, will give off chlorine in a gradual manner, by a decomposition of their constituents. Some difference of opinion exists as to the mode in which this gas acts. Dr. A. T. Thomson is of

opinion that it operates by decomposing the infected air:-

"With regard to the mode in which chlorine operates, the most probable opinion is that it decomposes the infectious matter, which is a compound. One principle of this compound seems to be hydrogen; another ammonia; and a third a fetid volatile oil; besides the unknown matter of infection. The chlorine unites with the hydrogen and forms hydrochloric acid, which combines with the second component of the infectious medium—namely, ammonia—and forms sal ammoniac; the withdrawing of both of which from the air causes the precipitation of the volatile oil; whilst the chlorine also neutralizes the real matter of infection, whatever it may be; and thus the vitiated atmosphere is purified."

Although chlorine is capable of destroying fetid and unpleasant odors in the sick room, it is liable to many objections. However extricated, it is apt to create irritation of the respiratory organs, and coughing, when respired; it corrodes all metallic substances, and must, therefore, be used with caution; from the chlorides evolving the gas more slowly, they are, in most cases, preferable to the immediate extrication of chlorine from salt

and manganese.

Other acid fumigations have also been found useful as disinfectants; as those of nitrous acid, so highly recommended by Smith and Carmichael, and considered by Christison even as superior to chlorine. Sulphurous acid fumes, produced by burning sulphur, have likewise been recommended. Both are capable of destroying unpleasant odors and emanations; but the same objections apply against their use in a sick chamber—that of causing much irritation of the organs of respiration; hence they are unfitted to cases where there is any disease or weakness of these parts. Carbolic acid has, of late years, been extensively employed as a disinfectant, and found to possess considerable merit.

Fumigations, used as medicinal agents, are much more prescribed on the Continent of Europe than in Great Britain or the United States. They are sometimes employed as inhalations—as emollient vapors in the treatment of bronchial affections; and balsamic vapors in affections of the chest. They are also used externally, as the fumes of benzoin in rheumatic and gouty complaints; those of aloes in deficient menstruation; those of sulphur and

mercury in various diseases of the skin.

The effects of fumigations vary according to the temperature at which the vapors are used; when it is high, and the whole body of the patient is exposed to it, it produces much the same train of symptoms as those caused by a vapor bath. When the fumigation is made with substances which give off no watery vapors, the phenomena that result are analogous to those of a heated air-bath, but more marked, especially those which occur in the skin and subcutaneous tissue.

## BLOOD-LETTING.

Various methods are practised for this purpose. General bleeding is performed by opening a vein, called venesection; or by puncturing an artery, which has received the name of arteriotomy. Topical blood-letting is practised by opening the small vessels of a part by means of slight incisions, or what is called scarification, by the application of leeches, and by cupping.

General Blood-letting.—Venesection is one of the most frequently employed of the different modes of detracting blood. It is usually practised on one of the veins of the arm. A band or ligature is to be applied around the arm above the point at which the vein is to be opened, so as to obstruct the passage of the blood to the heart; this causes an enlargement and turgidity of the vessel below the ligature. This bandage should never be applied so tightly as to prevent the passage of blood in the arteries of the part. The vein is to be opened by means of a common or thumb lancet, or a spring lancet. In using the first, the vein is to be kept from rolling by means of the thumb of the left hand placed a small distance below where the puncture is to be made; but care should be taken not to alter the relative position of the skin and vein, because in resuming their position after the lancet is inserted, the aperture through the skin will no longer correspond with that in the vein, in consequence of which a thrombus or ecchymosis will form—a very common accident in venesection. The lancet is to be pushed into the vein, and when its point is within the cavity of the vessel, it is to be carried forward a little, so as to enlarge sufficiently the opening. The arm is to be kept extended after the operation until the necessary quantity of blood is taken. If the blood should not flow as freely as is desired, the patient should exert the muscles of the arm by grasping a stick, or moving the fingers.

The spring-lancet is much used in some parts of the United States, and is almost universally employed in Philadelphia. This has arisen, in great measure, from its being preferred to the common lancet by Dr. Physick, as well as by Dr. Dorsey, whose reasons for this preference are thus given in

his "Elements of Surgery:"-

"In a country, situated like the United States, where every surgeon, except those residing in the large cities, is compelled to be his own cutler, at least so far as to keep his instruments in order, the spring-lancet has a decided preference over the lancet; the blade of this can with great ease be sharpened by any man of common dexterity, and if not very keen, it does no mischief, whereas a dull lancet is a most dangerous instrument; and no one can calculate with certainty the depth to which it will enter: to sharpen a lancet is regarded by the cutler as one of his nicest and most difficult jobs; it is one to which few surgeons are competent.

"The safety of using the fleam is demonstrated by daily experience; there is no country in which venesection is more frequently performed than in the United States, and, perhaps, none where fewer accidents from the operation have occurred; of these few, I beg leave to state that all the aneurisms produced by bleeding, which I have seen, have been in cases where the lancet was used. I have since, however, met with an exception to this statement. I have seen the brachial artery opened by a spring-lancet,

but it was by an old barber, half blind, and very clumsy."

"The manner of using the spring-lancet differs in nothing from the operation with the common lancet, excepting that the surgeon must place the instrument in such a situation over the vein that, when the spring is touched, the orifice into the vein will have a proper size and direction. Dexterity in this is very readily and speedily acquired. In point of facility in its use, it has

a great advantage over the lancet.

"Among the advantages of the spring-lancet, economy is not the least. A country practitioner who is constantly employing the English lancets, and who is particular in using none but the best, must necessarily consume half the emolument derived from the operation in the purchase of his instruments. One spring-lancet, with an occasional new blade, will serve him all his life."

After a sufficient quantity of blood has been drawn, the flow is to be stopped by removing the ligature and placing a finger on the orifice, when

any blood that has soiled the arm is to be wiped off, and the edges of the orifice carefully brought together, that they may unite by the first intention. To accomplish this, let the bleeder, with the thumb of that hand which holds the arm, push the skin towards the orifice, while he draws it on the other side to the same point with the compress; thus the skin will be thrown into folds at the wound, over which he is immediately to apply the compress, which should be broad, to keep the skin better together, and thick, to make

the compression more certain.

When blood-letting is ordered, everything required for the operation should be at hand. The ligature for tying the arm, so as to obstruct the flow of blood in the veins below it, should be a soft old ribbon; and the same may be employed for securing the pledget over the orifice, when the flow of the blood is to be stopped. The pledget or compress should be a piece of linen, folded into a square form, about an inch in diameter, and comprehending three or four thicknesses of the material. It is always proper to use a graduated basin for receiving the blood, that the exact quantity drawn may be ascertained. If the invalid be bled in bed, he should sit erect; if he be up, he should be placed erect in a chair. When the operator is dexterous, there is little or no necessity for guarding either the bed or the clothes of the patient from the blood; as the pressure of the thumb of the operator, placed below the point where the vein is to be punctured, should not be relaxed until the utensil for receiving the blood be conveniently placed for that purpose. A basin with a little tepid water, and a clean, soft towel, should be ready for washing and drying the arm, before the compresses and the bandage for preventing the further escape of the blood be applied.

When a nurse or an attendant is not fully instructed in her duty, there is always considerable anxiety displayed to provide smelling salts and other means to obviate fainting. But, in many cases, much of the benefit of bloodletting depends on the fainting which it causes; and the propriety of checking that effect should be left entirely to the physician. No person should be present at this operation, nor should any one attempt to hold the basin for receiving the blood, who is liable to become sick or faint at the sight of blood.

The arm should not be used for some hours after a vein has been opened in it; but, if everything has gone on well, the bandage may be removed at the end of two days. When this has been applied too tightly, the forearm and hand are apt to swell and become painful, in which case the bandage is to be loosened. If, on removing the bandage, it is found that the orifice, instead of being closed, presents an inflamed appearance, with its lips swelled and red, the arm is to be kept perfectly quiet, the edges of the wound brought in contact, and some cool application made to the part, to relieve the inflammation. In those cases where the inflammation extends beyond the orifice, and assumes an erysipelatous appearance, with a hard and painful tumor around the wound, a compress is to be applied upon the vein at the inflamed part, to make the two sides adhere together; if they do not adhere, simple contact will still be sufficient to prevent suppuration in this part; or, if inflammation has gone so far as to make the surgeon suspect that suppuration has taken place, then the compress must be put upon that part of the vein just above the suppuration.

The remedy for inflammation of the veins consequent on venesection, which answers best, is the application of a blister over the inflamed part. As soon as the inflammation commences, a small plaster of simple cerate, spread on linen, should be applied on the orifice, and over this, a blister large enough to cover the whole inflamed part, extending three or four inches from the orifice in every direction. This remedy was first proposed, and made use of, by Dr. Physick, and has been employed by many physicians with great suc-

cess, even after extensive inflammation of the vein has taken place.

Sometimes it becomes expedient to open the external jugular vein. To do this, the head should be laid on one side, and the vein compressed by the operator's thumb near the clavicle, and the opening made in that part of the vein which lies over the sterno-cleido-mastoid muscle. The blood soon ceases to escape after the pressure is removed, but a small strip of adhesive plaster is necessary.

In children, especially where they are very fat, a vein in the leg or foot can often be found, especially about or above the malleolus, when none are perceptible in the arm. To promote their distension, and to increase the bleeding when they are opened, it is found useful to immerse the limb in warm water.

In bleeding young children from the arm, when they are restless and fretful, it is a good plan to attach the child's arm to the left forearm of the operator, by means of ligatures at the wrist and centre of the arm; by this means, complete control is obtained over the motion of the child's arm, and the venesection can be accomplished with comparative ease.

ARTERIOTOMY is the opening of an artery to detract blood. It is much more limited than venesection in its application, being practised only upon the temporal and posterior auricular arteries; and, in most cases, is restricted to the former only. In this, the anterior branch is preferred, where it passes above the exterior angle of the eyebrow. In performing the operation, the vessel is to be partially divided transversely, and not longitudinally. When as much blood has been drawn as is deemed necessary, the incision is to be deepened so as to divide the artery entirely. On the consequent retraction of the cut extremities, the bleeding will generally cease; if it should not, a graduated compress, maintained in place by a bandage around the head, is to be applied.

TOPICAL BLOOD-LETTING.—This consists of the abstraction of blood by

cupping, leeching, or scarification.

Cupping is performed in the following manner: The skin being softened by means of a sponge and warm water, a small bell-like glass, known as a cupping-glass, having the air contained in it rarified by being passed over the flame of a lamp, or by other means, is immediately applied to the part, all hair and other extraneous substances being previously removed; from the formation of a vacuum beneath the cup, the pressure of the air on the surrounding surface causes that portion included in the cup to swell, and the vessels to become turgid. When this has taken place, the cup is removed and several incisions made by means of a scarificator, an instrument containing numerous lancets, which, by means of a spring, can make a corresponding number of incisions at the same moment; the depth of these incisions can be regulated by means of a screw which protrudes or withdraws the lancet, according to the vascularity of the part, the quantity of blood to be drawn, etc. When a sufficient quantity of blood has collected in the cup, it is to be removed by introducing the nail of one of the fingers under the edge, by which means, air being allowed to enter, the cup becomes detached. The part being washed with warm water to remove any clots of blood, the cup is again to be applied as above, and the operation continued till a sufficient quantity of blood is obtained. Sometimes, especially when applied to the scalp, the cups fill so rapidly with blood, as to become detached almost immediately on being applied.

¹ In bleeding from the jugular vein, it is generally advisable to compress both of the external jugulars. This is easily done by placing the thumb of the left hand upon one jugular vein, and the forefinger of the same hand upon the other. If this point is not attended to, the operation may fail, in consequence of the free anastomosis across the neck, and the passage of the blood downwards upon the opposite side.

For the operation of cupping, a basin of hot water, sponges, and clean soft towels are to be provided. It is generally considered as a severe and painful operation; but this is not the case, if the operator understands his business. This is readily ascertained by observing the manner in which the cups are applied, and the rapidity with which they are filled. A good cupper does not exhaust much of the air in the cup before applying it, but simply passes its mouth rapidly over the flame of a lamp; for, when it is held over the flame even for a few seconds, the compression of the edge of the cup upon the skin is so great, that it operates as a ligature, and checks the flow of the blood to the scarified part; hence very little blood is procured. A good cupper, also, removes the cups without spilling the blood which they contain; and the whole operation is completed in a short time.

In our large towns, it is but seldom that physicians, nurses, or those attending in a sick room, are called upon to perform the operation of cupping, as professional cuppers are readily to be obtained; but in small towns or villages, this is not the case, and the duty devolves either upon the physician or on those acting as nurses; and hence some directions are necessary to those unaccustomed to this task. Few are found sufficiently expert to exhaust the air in the cup by means of the lamp; and even among the professional cuppers in this city this mode is very rare, though, when properly performed, it is by far the best. The usual plan is to rarefy the air in the cup by means of a small cone of paper, dipped in spirits of wine, or strong brandy; this is ignited and thrown into the cup, which is instantly to be applied to the intended spot. Where the proper cupping-glasses and scarificator are not to be had, wineglasses or very small tumblers may be substituted for the first, and small incisions by means of a thumb-lancet will answer the purpose of the latter. A very convenient apparatus may be obtained at most of the surgical instrument-makers, consisting of cups and an exhausting syringe fitted to them, by which even the most inexperienced nurse can perform the operation of cupping.

The cicatrices of the scarifications leave a permanent mark; on which account, females should not be cupped upon the nape of the neck; but when blood is to be drawn from the head, the glasses should be applied behind the ears, and a portion of hair removed in such a manner that it may be

covered by what remains.

When cupping-glasses are applied without any scarification being practised, the operation is called dry cupping, and is much used to cause a speedy irritation of the skin for the relief of oppression of breathing, local pains, etc. To obtain the full benefit from this operation, the cups should be suffered to remain upon the part until they cause an exudation of a small quantity of serum, or great irritation of the part. The application of dry cups has been found extremely beneficial in poisoned wounds; they act not only by abstracting the poison, but also, by the pressure they exercise on and around the part, in preventing the absorption of it. The experiments of Dr. Barry in England, and of Drs. Pennock and Rodrigue in this country, show unequivocally the value of this plan of treatment.

Leeching consists in the application of leeches to any vascular part of the body. These are annulated animals, having an extensile, soft body, terminated at each extremity with a muscular disk, the anterior of which is furnished below with a mouth having three crescentic jaws, armed with numerous sharp teeth. To draw blood, the leech first renders the part tense by means of the anterior disk, which acts like a cupping-glass, and then makes a triangular wound by a saw-like motion of its tri-radiate jaws; it then draws the blood by suction, until it is completely gorged, when it

detaches itself and falls off.

Leeches are seldom properly applied or managed. The part to which

they are intended to be applied should be washed with a little soap and warm water, then with simple cold water, and, lastly, it should be well dried. If the part be hot and inflamed, the leeches should be put, for a few minutes, into tepid water; and this should be done, also, when they are to be applied in the mouth, or to any part of the body warmer than the general surface; but, at all times, before they are applied, they should be dried between the folds of a clean soft towel. The easiest and best mode of applying them is, first, to place the number to be used in a hollow made with the points of the fingers in a towel folded like a napkin; then, so to turn the towel and the leeches upon the part where it is intended they should fix, that the towel will cover them. The hand must be kept over the towel, to prevent their escape, until they all bite, which usually happens in a few minutes; after which, the towel may be removed. By this method, twenty or thirty leeches can be applied more rapidly and with less trouble than two, when each leech is separately applied. Another plan is to put the leeches into a pill-box or small glass, and apply this over the part to which it is designed they should attach themselves. If this plan, however, cannot be pursued, owing to the nature of the part to which they are to be applied—as, for example, the inner or outer angle of the eye-then the simplest method is to scratch the skin with the point of a needle, and to apply the leech to the spot moistened with blood. When they are to be applied within the mouth, or any open cavity, each leech should be put into a large quill, with its head towards the open end of the quill, which should be applied to the part, and retained upon it until the leech is fixed, when the quill may be gently withdrawn; but a thread should be tied round the tail of the leech when it is to be applied within the mouth, to prevent it from being swallowed-an accident which has occasionally happened, and has been productive of serious consequences.

Leeches should never be forcibly detached, as their teeth are apt to separate, and, being left in the wound, to cause an erysipelatous inflammation of the part. They should be permitted to drop spontaneously, which being the result of a temporary suffocation (asphyxia), all muscular energy ceases in the animal, and, the teeth shrinking, it drops off entire. A bread-andwater poultice, not too hot, should then be laid over the bites, to encourage the bleeding. The invalid should be kept warm in bed when it is necessary to abstract a large quantity of blood. In general, the bites soon cease to bleed; but, in some instances, a copious flow takes place; and, therefore, to prevent exhaustion, the poultice should be frequently examined. This exhaustion is more likely to occur in children than in adults; and, for the same reason, leeches should not be applied upon children late in the evening unless they are very urgently required. It is also proper, in young patients, to select for their application a part which admits of pressure; for example, the thorax and temples, where the bones are covered with a thin layer of soft parts. Sometimes the hemorrhage continues so as to become alarming; in such cases, where pressure is unavailing or cannot be practised, creasote or some of the styptics applied to the bites will be found useful. Powdering the spot with rye flour has also proved effectual. When these means fail, cauterizing the bites by means of a fine point of nitrate of silver, or with a red-hot probe or knitting-needle generally proves successful.

Scarifications are slight incisions made in a vascular part, in order to relieve the engorged capillaries; they are practised in inflammations of the conjunctiva, and in those of the tonsils, with much benefit in many cases. The operation is very simple, consisting merely in dividing the surface of the inflamed parts to a slight depth with the point of a lancet or scalpel,

and encouraging the bleeding by means of warm water.

# POISONS.

Poisons are usually defined to be substances of an animal, vegetable, or mineral nature, which, when administered in a small quantity, are capable of producing deleterious effects on the animal economy, and, in some instances, of causing the same consequences when applied to the surface of the body. But this definition is not strictly accurate, and is not applicable to all cases of poisoning; nor is it, perhaps, possible to give in a few words such an one as would include all poisonous agents. Poisons are usually arranged according to their action on the system; but, as the alphabetical plan has been pursued in the main body of this work, it will be continued in the present instance. For full information on the subject, the reader is referred to the work of A. S. Taylor, "On Poisons in relation to Medical Jurisprudence and Medicine."

GENERAL ANTIDOTE for poisoning, in which the nature of the poison is unknown:—

R. Calcined magnesia, Pulverized charcoal, Sesquioxide of iron.

This preparation is perfectly innocent, and is very likely to be efficacious, for its ingredients, though simple, are antidotes to the most common and active poisons.—Bull. de Thérap.

ACID, ACETIC.

Symptoms.—Great heat and burning pain in the stomach, convulsions, death.

Morbid Appearances.—Mouth and fauces brownish; lingual papillæ enlarged; œsophagus lined with a brownish adventitious membrane; stomach livid and even blackened; vessels much injected.

Antidotes.—Magnesia or its carbonates mixed into a cream with water; soap, and the alkalies.

Acid, Arsenious, or Arsenic.—A metallic, corrosive poison.

Symptoms.—A metallic, austere taste; a great flow of saliva; nausea and vomiting; fainting, great thirst; a sensation of heat in the stomach, which, in many cases, rejects the mildest fluids; much griping, tenesmus, and purging; the stools being dark-colored and very offensive; the urine scanty and high-colored; the pulse small, frequent, and often intermittent; distressing palpitation of the heart, with labored respiration and cold sweats; prostration of strength; sometimes paralysis of the extremities, delirium, convulsions, etc.

Morbid Appearances generally confined to the stomach and intestines; in the stomach, in the form of intense inflammation, but not of erosion or abrasion; the inflammation is also evident in the upper intestines, but slight in the colon, though often violent in the rectum. The morbid appearances of other organs various. Sometimes no morbid phenomena to be found.

Tests .- In the solid state: it is entirely sublimed by heat. If mixed

with charcoal, and heated in a suitable test-tube, deoxidated arsenic will be obtained in the form of a metallic coating inside the tube; and this may be reconverted into arsenious acid by urging it in various directions along the tube with the aid of a minute spirit-lamp flame; the facets of the crystals thus formed (on the cooler situations) will be seen in some places with the unassisted eye, but more distinctly by means of a four-power lens.

In solution: ammoniacal nitrate of silver produces a lemon-colored (arsenite of silver) precipitate. Ammoniacal sulphate of copper throws down a grass-green (arsenite of copper) precipitate. Transmission of sulphuretted hydrogen produces a bright-yellow (sulphide of arsenic) precipitate. Lime water precipitates a white (arsenite of calcium) powder; but this test is not

one to be relied upon.

Placed with zinc and diluted sulphuric acid in Marsh's apparatus, the arseniuretted hydrogen thence arising, when lighted, will deposit metallic

arsenic on a piece of glass held within the flame.

Reinsch's Test.—Acidulate the suspected liquid with muriatic acid, and boil copper wire or foil in it for ten minutes. The arsenic is deposited on the copper as a white alloy, from which it can be separated as arsenious acid, by subjecting the copper, cut into shreds, to a low red heat in the bottom of a small glass tube.

The precipitates referred to, if washed and dried, may be treated as di-

rected above for arsenic in the dry or solid condition.

In testing suspected matters obtained from the stomach, these (and, in cases of death, the stomach itself) must be cut or broken down, and boiled during, at least, three-quarters of an hour: if not sufficiently fluid, add distilled water. Strain, and with addition of a small quantity of potassa again boil during a quarter of an hour, and filter. If this liquor manifest either alkaline or acid reaction, neutralize with potassa, or with acetic acid, as may be required; then acidulate it faintly with hydrochloric acid. Solution of nitrate of silver will remove the acid; and solution of chloride of sodium will precipitate any excess of silver. The liquor may now be experimented on with the above tests.

Treatment.—Abundant draughts of sweet milk, gruel, decoctions of starch, or oily mixtures; tickling the fauces, etc., to induce vomiting; the stomach-pump; emetics of sulphate of zinc. Hydrated sesquioxide of iron (newly prepared, v. process, p. 293), in large doses, is the only antidote of reliance.

Light magnesia may be used with advantage, until the hydrated peroxide

of iron can be procured.

Afterwards combat any inflammatory symptoms by the usual means, and let the patient subsist, for a long time, wholly on the blandest diet.

All arsenical poisons have much the same action, and similar means are to be used for their detection and for counteracting their effects.

ACID, BORACIC.—This is said to be very virulent; but no instances have been recorded of its fatal effects on man.

Tests.—Not very soluble in water; soluble in alcohol, which, when inflamed, burns with a rich green color; soluble in the caustic alkalies.

ACID, CARBONIC.—This gas is freely liberated in respiration, combustion, and fermentation, as also in the calcination of lime; and is found in coal mines, wells, and cellars.

Symptoms.—Great drowsiness, giddiness, difficulty of respiration, loss of muscular power and sensibility, and coma. The whole body, but especially the face, appears swollen and livid; eyes are unusually prominent, and retain their brilliancy for some time.

Tests.—It extinguishes a taper if the proportion be above twelve or fif-

teen per cent.; lime water, or a solution of subacetate of lead, is precipi-

tated white by it.

Treatment.—Remove the person into the open air, and elevate the head; dash cold water over him, apply stimulating frictions to the thorax and extremities, and use artificial inflation of the lungs; as soon as the patient can swallow, stimulants may be cautiously administered; but, if there are signs of oppression of the brain, venesection is to be performed.

ACID, CITRIC.—In large doses, acts as an irritant poison; but no fatal case in the human subject has been recorded.

Acid, Hydrocyanic or Prussic.—An extremely active, sedative poison. Symptoms.—When the dose is large, almost immediate death ensues; in smaller quantities, it causes pain in the head, stupor, nausea, faintness, vertigo, and loss of sight; followed by difficulty of respiration, dilated pupils, a small vibrating pulse, and syncope, which will end in death if curative means are not employed.

Morbid Appearances .- None; but a strong odor of the acid is exhaled

from the stomach.

Tests.—The (bitter almond) peculiarity of its odor. When a little potassa is mixed with liquids containing this poison, and solution of the sulphate or sesquichloride of iron added, a grayish-green precipitate is thrown down—which deepens to a Prussian-blue tint on addition of a few drops of sulphuric acid. The nitrate of silver produces a white (cyanide of silver) precipitate; which, after being washed and dried, and then held on a watch-glass over a flame, burns with a fresh rose-color, cyanogen being at the same time evolved.

Sulphur Test.—Place two drops of a solution of hydrosulphate of ammonia, containing an excess of sulphur, in the centre of a watch-glass, and invert it accurately over the vessel containing the poisoned liquid. Remove the glass in three or four minutes, and dry the moistened spot gently over a spirit-lamp. Let a drop of water fall on the white film, and then a drop of the perchloride of iron. If prussic acid be present, a blood-red solution (sulpho-cyanide of iron) is produced; and this red color is discharged by the addition of one or two drops of a solution of corrosive sublimate.

When a mixture is to be examined, containing matters from the stomach, etc., if alkaline, it must first be neutralized by addition of sulphuric acid, then one-eighth part cautiously distilled therefrom into a receiver immersed in some frigorific mixture; and the product may then be tested by nitrate

of silver, etc., as above.

Treatment.—The internal remedy best calculated to act chemically on this poison, is carbonate of potassium in solution, quickly succeeded by watery solutions of sulphate of iron (with the intention of decomposing the acid, and forming the less injurious substance named Prussian blue); but the instances of success by these, or, indeed, by any other kinds of treatment, are extremely rare. Inhalation of chlorine gas, ammonia, etc.; artificial respiration; exhibition of energetic stimulants, such as brandy, liquid ammonia; chlorine-water, chloride of soda and of lime, have all been extolled, and may be tried. Mustard poultices to the stomach, and cowhage applied over the chest; vene-section at the neck, temples, etc.; and affusion of cold water to the head and spinal region, are more likely to prove timely excitant and effective remedies. Employment of the stomach-pump, emetics, etc., seems a most improbable means of relief—or, rather, a waste of time.

ACID, MURIATIC OF HYDROCHLORIC.—A corrosive mineral poison.

Symptoms.—Sensation of burning in the throat and stomach, styptic taste in the mouth, much thirst; the eyes red and sparkling; the pulse frequent

and tense; the skin hot and dry; the tongue red and glazed; the lips black; vomiting of blood and yellow matter, having the peculiar smell of the acid; cold sweats, delirium, etc. Orfila also says, a thick white fume, having the penetrating odor of the acid, issues from the mouth.

Morbid Appearances.—Mouth, fauces, throat, and stomach highly inflamed, of a deep-red color; mucous membrane sometimes detached or destroyed, sometimes perforated; contents of the stomach yellow or dark

green.

Tests.—Characteristic acid taste. The presence of muriatic acid in small proportion is at all times demonstrable in the juices of the stomach; therefore proof of its presence in excess is required in cases of poisoning. When a piece of glass, wetted with this acid, is held close to liquor ammoniæ, so as to let the vapors of both meet, white (chloride of ammonium) fumes are formed. Solution of nitrate of silver produces a white (chloride of silver), curdy-looking precipitate.

Treatment.—The immediate administration of soap, magnesia, soda, or potassa, mixed in bland demulcent drinks, to be followed by the free use of emollients and mucilages. If patient survives the first effects of the poison, employ antiphlogistic means to overcome the supervening inflammation.

ACID, NITRIC, or AQUA FORTIS .- A corrosive mineral poison.

Symptoms.—Much the same as those produced by the last-mentioned

poison.

Morbid Appearances.—In cases where death has occurred soon after the ingestion of the poison, the most striking appearance is a layer of yellow matter on all parts reached by the acid. The lips, chin, and hands of the person are also often stained with orange-colored spots. Perforations of the stomach are found in most cases.

Tests.—The orange-colored fumes that are given off, when it is boiled with copper filings, are characteristic. It reddens morphia, and blackens a solution of protosulphate of iron. A fluid containing it, on the addition of carbonate of potassium, forms nitre, which may be known by its deflagration, or by powdering a small portion, and placing it in a glass tube with some fine copper filings, moistening with water, and adding a few drops of sulphuric acid—when, if it be nitre, there will be an evolution of the orange-colored fumes of nitrous acid.

Treatment.—The administration of magnesia or chalk in some bland fluid, then the free use of demulcents, and subsequently the employment of antiphlogistic means to subdue inflammation.

ACID, OXALIC.—A corrosive vegetable poison.

Symptoms.—Burning heat of the stomach, nausea; sometimes vomiting, but at others, ineffectual efforts to discharge the contents of the stomach; great prostration of strength, violent pain, spasmodic respiration, convulsions, etc. When the patient survives the first effects of the poison, all the symptoms of violent inflammation of the alimentary canal are developed. In a diluted form, it appears to cause paralysis of the heart or symptoms of cerebro-spinal disease.

Morbid Appearances.—Tongue and fauces usually covered with a viscid white coat; the stomach containing a dark-brown mucous fluid, and its substance of almost a gelatinous consistency. In some cases, no traces of the action of the poison are perceptible; but, when death does not occur for some

time, the alimentary canal is found inflamed.

Tests.—In solid state: has the characteristic sour taste of most acids; and produces the same changes as they do on vegetable blues. When placed in water, a crackling sound accompanies the solution of its crystals.

In solution: Solution of chloride of calcium produces a white (oxalate of calcium) precipitate; which is insoluble in acetic acid, but soluble in nitric acid. Solution of nitrate of silver also throws down a white precipitate, which, on being carefully dried by aid of heat, on bibulous paper, acquires a brownish outline, and towards the end shows some slight explosions.

Treatment.—Mixtures of magnesia, chalk, whiting, or plaster scraped from off the inside wall of an apartment, mixed with water (the amount of the latter being as small as convenient for swallowing); abundant drinks sub-

sequently. No alkalies should be employed.

ACID, SULPHURIC.—A corrosive mineral poison.

Symptoms.—An austere styptic taste in the mouth; a sensation of burning heat in the throat and stomach, followed by nausea, vomiting, and much fetor of the breath. The matters vomited contain both venous and arterial blood. Signs of great inflammation of the abdominal viscera soon manifest themselves, with difficult respiration, a croupy cough, and a small, frequent, irregular pulse; great anxiety and restlessness, convulsive motions of the muscles of the face and lips; sometimes a papulous eruption precedes death.

Morbid Appearances.—These are not always to be found, except in the fauces and larynx, which, in most cases, present evidence of the highly corrosive action of the poison. The stomach is sometimes found to contain a quantity of dark grumous matter, and is much distended with fetid gas—its membranes ulcerated, dark colored, and having numerous corroded spots,

and even perforations.

Tests.—The acid may be in a concentrated or a diluted state. If in the former, any organic matter placed in contact with it is blackened and charred; when mixed with an equal bulk of water, much heat is evolved; when boiled with copper filings or mercury, sulphurous acid gas is evolved. When the acid is in a diluted state, the best test is nitrate of barium, which causes a dense white precipitate of sulphate of barium; this can be verified by calcining it for some minutes with an equal weight of charcoal, wrapped in platina foil, then introducing the residue into a glass tube and adding a few drops of muriatic acid. This will cause an extrication of sulphuretted hydrogen, which can be recognized by its odor, and by its blackening carbonate or acetate of lead.

Treatment.—The same as for the other mineral acids.

ACID, TARTARIC .- A corrosive vegetable poison.

Symptoms.—Very analogous to those caused by oxalic acid.

Morbid Appearances are likewise similar to those produced by oxalic acid.

Tests.—When heated on platina foil, it burns with a pale reddish flame, and exhales a peculiar acrid vapor, leaving much carbonized matter. When a solution is treated with lime water, it affords a white precipitate, soluble in an excess of the acid; when treated with caustic potassa, it affords a granular precipitate of the bitartrate.

Treatment.—The same as for oxalic acid.

ACETATE OF COPPER. See Copper.

ACETATE OF LEAD. See Lead.

ACETATE OF MORPHIA. See Opium.

ACONITE. See Vegetable Poisons.

Alcohol.—A narcotico-acrid poison.

Symptoms.—These vary according to the dose. In small quantities, there is mere excitement. In large doses, much excitement, with delirium, confusion of intellect, followed by somnolency; nausea and vomiting, and even coma and apoplexy. When an undue portion has been swallowed, it often proves instantly fatal; it may also prove fatal by occasioning or aggravating other diseases. The effects of an habitual use of it are diseases of the viscera, and various mental and nervous disorders. The symptoms of poisoning with alcohol may be mistaken for those of epilepsy or apoplexy.

Morbid Appearances are inflammation, softening, etc., of the mucous membrane of the stomach, congestion of the cerebral vessels, and sanguineous or

serous extravasation of the brain or lungs.

Tests.—Odor of the contents of the stomach, or of matters ejected from it. The chemical proof consists in removing the contents of the stomach, mixing them with distilled water, filtering and distilling in union with carbonate of potassium or sodium; the product is mixed with fused chloride of

sodium, and again distilled. Alcohol will be found in the receiver.

Treatment.—Withdraw the contents of the stomach as speedily as possible, by a stomach-pump; afterwards an emetic of salt and water should be given in large doses, and repeated, at short intervals, till the stomach is well cleared. The cold affusion is useful in some cases. Ammonia may be employed as a stimulant, and general symptoms obviated by blood-letting; but this must be employed with great caution.

#### ALKALIES.

Ammonia .- A corrosive poison.

Symptoms.—Excoriation of the mouth and fauces; burning sensation in the throat and stomach, usually followed by vomiting and purging, the ejected matters being often bloody. When the quantity taken is large, an immediate feeling of strangulation ensues, attended with convulsions. If the result is fatal, it quickly follows the ingestion of the poison. The inhalation of ammonia by the nostrils, when too freely used in cases of fainting, has caused the same symptoms as when taken into the stomach.

Morbid Appearances .- Marks of high inflammation of the parts with

which the poison has come in contact.

Tests.—The pungent odor; its alkaline reaction—but which is dissipated by heat. By causing a yellow precipitate with a mixture of arsenious acid and nitrate of silver; by producing a rich violet-blue solution with the salts of copper; by yielding a yellow precipitate with the bichloride of platinum; by giving a white precipitate with the bichloride of mercury; and forming white fumes with chlorine or hydrochloric acid.

Treatment.—The immediate administration of vinegar or one of the vegetable acids, and afterwards the copious use of demulcents. When ammoniacal vapor has been inhaled, the patient should inspire the vapor of

vinegar.

Potassa.—A corrosive mineral poison.

Symptoms.—An acrid, caustic, urinous taste in the mouth; a sensation of burning heat in the throat; nausea, and sometimes vomiting of bloody matters. The surface cold and clammy; the pulse quick and feeble; hypercatharsis, and violent colicky pains.

Morbid Appearances .- Strong marks of inflammation in the alimentary canal, softening, erosion of the mucous coat, and, in some cases, perforation

of the stomach.

Tests.—Alkaline reaction; precipitation of nitrate of silver in the form

of a dark-colored oxide. Carbonic acid water causes no precipitate. A concentrated solution, acidulated with muriatic acid, affords a deep-yellow precipitate with bichloride of platinum. A solution of tartaric acid causes a white precipitate of cream of tartar.

Treatment.—Give vinegar and the diluted vegetable acids; to be followed

by a free use of demulcents, or oleaginous mixtures.

Soda .- A corrosive mineral poison.

Symptoms and Morbid Appearances .- Analogous to those following the

use of potassa.

Tests.—Caustic soda in solution is not precipitated by bichloride of platinum or tartaric acid; its alkaline nature can be ascertained by the usual tests. Antimoniate of potassium affords a white precipitate when added to the salts of soda. Soda tinges the outer flame of the blow-pipe yellow.

Treatment.—The same as for potassa.

Antimony.—Metallic antimony is not regarded as a poison; but its vapor is said to cause unpleasant symptoms when respired.

Antimony, Tartarized, generally known as Tartar Emetic, is an irritant

metallic poison.

Symptoms.—Nausea and severe vomiting, hiccough, cardialgia, burning heat at the epigastrium, severe colic and purging, small and rapid pulse, cold skin, syncope, difficult respiration, vertigo, insensibility to external stimulants, painful cramps in the lower extremities, and great prostration of strength.

Morbid Appearances.—The stomach and intestines often much inflated with gas; their mucous membrane red, and covered with a slightly adhering viscid layer; the peritoneum of a dark brick-red hue; the membranes of the

brain displaying marks of inflammation.

Tests.—In a solid state, add charcoal, introduce into a test-tube and expose to heat; metallic antimony will be found of a grayish-black lustre. In the state of solution, diluted nitric acid causes a white precipitate. Sulphuretted hydrogen throws down a reddish-orange precipitate. Solutions containing tannin cause a copious, curdled, whitish-yellow precipitate. Should matters from the stomach be present, the solution must be well agitated with a small portion of muriatic and tartaric acid; then filtered previous to being experimented upon.

Treatment.—Encourage vomiting by free administration of warm water and other diluents, or employ the stomach-pump, if necessary. Infusions, tinetures, or extracts, containing tannin, are very useful by decomposing the

poison.

BARYTA, AND PREPARATIONS OF .—The only preparations of baryta that have caused death are the Carbonate and Chloride.

Symptoms.—Those of irritation, combined with an affection of the brain and nervous system, as vertigo, convulsions, and paralysis.

Morbid Appearances.—Evidences of inflammation of the mucous coat of the stomach.

Test.—In solution: Sulphuric acid throws down a profuse dense white (sulphate of barium) precipitate. Solution of nitrate of silver also produces a white (chloride of silver) precipitate with the chloride of barium. Sulphuretted hydrogen produces no change of appearance; which circumstance, being peculiar to salts of barium, is valuable as a negative test.

Treatment.—Sulphates of magnesium or sodium in solution in water, if the patient is seen early; they are, however, of little use where the carbonate has been taken. In this case, a mixture of sulphate of magnesium and diluted vinegar, together with emetics and the stomach-pump, should be used.

Belladonna. See Vegetable Poisons.

BISMUTH.—The only preparation that has caused death is the Subnitrate. Symptoms.—Burning pain in the throat, nausea, vomiting, and diarrhea, accompanied by coldness of the extremities, and spasms.

Morbid Appearances.—Inflammation of the fauces and œsophagus, redness

of the stomach and intestines.

Tests.—In substance: Dissolve in nitric acid, without change of color, and without effervescing, which distinguishes it from a carbonate. Sulphuric acid produces no precipitate, thus disproving the possible idea of its being a preparation of lead. Dissolve it in nitric acid, and add solution of potassa so long as any precipitate is thrown down; gather this in a filter, and, after washing and drying it, place it on charcoal, and treat it as directed for preparations of lead, when its reduction to the metallic condition will be effected.

The nitrate is decomposed by being poured into a large quantity of cold water, yielding an insoluble subnitrate. The latter salt is blackened by

exposure to sulphuretted hydrogen gas.

Treatment.—Induce vomiting by tickling the fauces, etc., and give continuous full draughts of sweet milk.

Bromine.—An irritant, corrosive mineral poison.

Symptoms.—Irritation and inflammation of the parts with which it comes

in contact, whether in substance or in vapor.

Morbid Appearances.—Fauces, œsophagus, and stomach inflamed and corroded, mucous membrane gelatinized, duodenum of a yellow color, and

thickened; the parts retaining a strong smell of the poison.

Tests.—Its color, odor, and volatility. All solutions containing it are rendered colorless by the addition of potassa. On being evaporated, the residue is to be incinerated at a low temperature, the ash dissolved in distilled water, filtered, and chlorine passed through the solution. On the addition of ether, the bromine is taken up by that fluid. With nitrate of silver it affords a yellowish-white (bromide of silver) precipitate.

Treatment.—The immediate and free use of albumen or starch, and mag-

nesia; inhalations of sulphuretted hydrogen.

Brucia. See Vegetable Poisons.

CALOMEL. See Mercury.

Camphor. See Vegetable Poisons.

CANTHARIDES .- An acrid and corroding animal poison.

Symptoms.—A burning sensation in the throat; violent pain in the stomach and bowels; nausea, vomiting, and purging—the ejections being frequently bloody and purulent; great heat and irritation of the urinary organs, sometimes the most painful priapism; pulse quick and hard; and convulsions, tetanus, delirium, and syncope.

Morbid Appearances.—Inflammation and erosion of the stomach: if in substance, fragments of the flies, adhering to the mucous coat, or mixed with the contents of the stomach; marks of inflammation in the intestines and urinary organs: these are most evident when death does not soon follow the

ingestion of the poison.

Tests.—The characteristic green, shining appearance of the fragments of

the flies, and the character of the symptoms.

Treatment.—The promotion of vomiting by means of warm demulcents; copious dilution, bleeding, the warm bath, opiate frictions, enemata of mutton broth, laudanum, etc. Camphor, though not an antidote, alleviates some of the most distressing symptoms.

Carbolic Acid and other phenols, including creasote.

Symptoms.—Burning sensation, extending from the mouth to the stomach; severe pain in the stomach; vomiting of a frothy mucus; skin clammy and cold; breathing difficult; insensibility; pupils contracted; odor perceptible in the breath and vomited matter.

Morbid Appearances.—Mucous membrane of mouth whitened; cosphagus white, hardened; costs of stomach of a horny appearance; lungs gorged with blood.

Tests.—These compounds are readily recognized by their odor.

Treatment.—Saccharate of calcium appears to be the most reliable antidote; if not at hand, carbonate of calcium, or preferably calcined magnesia diffused in lime water, should be freely used; afterwards demulcents.

CARBONIC ACID GAS. See Acid, Carbonic.

Chlorine .- An acrid gaseous poison.

Symptoms.—Great and painful constriction of the glottis, cough, sensation of suffocation, alternating with asphyxia; if the case is protracted, inflammation of the larynx and pneumonic inflammation; odor of the gas perceptible in the breath and in the vomited matters.

Morbid Appearances.—Marks of irritation and inflammation in all the

parts with which the poison has come in contact.

Tests.—A solution of this gas has a yellowish color, and a strong, peculiar smell, which latter is evolved on boiling. It gives a white precipitate with nitrate of silver, which is insoluble in nitric acid.

Treatment.—The best remedy is a free use of albumen. Magnesia, with mucilaginous fluids, may also be freely exhibited. Inhalations of ammonia, ether, and the vapor of warm water, and even of sulphuretted hydrogen, have been recommended. The last article must be employed with great care, to avoid an excess of it.

Chrome.—The only form of this metal that requires notice is the

BICHROMATE OF POTASSIUM.—An acrid mineral poison.

Symptoms.—Burning heat in the mouth, throat, and stomach; excessive and painful vomiting of bloody mucus; convulsions, palsy, etc.

Morbid Appearances .- Softening and abrasion of the mucous coat of the

stomach and intestines.

Tests.—In substance, by its orange-red color. In solution, by affording a rich red precipitate with nitrate of silver, a bright yellow with acetate of lead, a dingy green color and whitish turbidity with sulphuretted hydrogen.

Treatment.—The use of the carbonates of potassium or sodium, to neutralize the excess of chromic acid, followed by the administration of emetics. It would also be advisable to employ chalk or magnesia, in connection with milk or the albumen of eggs.

Cocculus Indicus. See Vegetable Poisons.

COLCHICUM AUTUMNALE. See Vegetable Poisons.

CONIUM MACULATUM. See Vegetable Poisons.

COPPER.—This metal is not poisonous in a metallic state, but becomes highly so when oxidized or in combination.

The most common preparations of copper are the Acetate (verdigris),

SULPHATE (blue vitriol), the CARBONATE, and AMMONIURET.

Symptoms.—Violent headache, vomiting, pain in the bowels, cramps in the lower extremities, a peculiar and permanent coppery taste, diarrhoa, convulsions, palsy, and insensibility.

Morbid Appearances.—Marks of inflammation in the stomach and intestines. When the case has been protracted, there is often a green tinge of the lining membrane, and a jaundiced appearance of the skin.

Tests.—The Sulphate in a solid state presents a bright blue color, and

leaves an astringent metallic impression on the tongue.

In solution: The transmission of sulphuretted hydrogen affords a brownish-black (sulphuret of copper) precipitate. Solution of ammonia precipitates a blue substance, which, on further addition of ammonia, becomes dissolved; but when only a small amount of the poison is present, no precipitation occurs, a clear violet-colored solution being then at once presented. Ferrocyanide of potassium throws down a reddish-brown (ferrocyanide of copper) precipitate. A piece of polished zinc or iron (as the blade of a table-knife) acquires a plating of copper, if placed in a liquid containing the above salt. The tests for sulphuric acid will indicate its presence here as the combining acid.

The Acetate: Same tests as preceding, excepting the last.

The Ammonio-sulphate: has a brilliant violet-blue color, and ammoniacal odor. Solution of arsenious acid affords a fresh apple-green precipitate;

this experiment is, conversely, that for arsenious acid.

Treatment.—Vomiting to be promoted by copious daughts of warm water, milk, or mucilaginous fluids; various antidotes have been highly praised. Sugar was formerly recommended, but has not been as successful as was supposed. Albumen and milk form an insoluble compound with copper, provided they are in large excess. The protosulphuret of iron and iron filings have also been employed with advantage; but their action is too slow. The hydrated oxide of iron has been successfully administered where the arsenite of copper had been taken.

CORROSIVE SUBLIMATE. See Mercury.

DIGITALIS. See Vegetable Poisons.

IODINE.

Symptoms.—In large doses this substance causes heat and constriction of the fauces, nausea, offensive eructations, pain in the stomach, retching, colic, diarrhœa, quickness of the pulse, trembling, great thirst, salivation, convulsions, etc.

Morbid Appearances.—Distension and inflammation of the stomach and bowels; sphacelation in some places; and, in protracted cases, increased size

and paleness of the liver.

Tests.—In the solid form, it is in purplish-black scales, having somewhat the odor of chlorine. When heated in a tube, it gives off violet fumes; when added to the mucilage of starch, it strikes a deep blue color. When it is mixed with other matters, pass a stream of sulphuretted hydrogen through the mixture, boil it, saturate with potassa, add mucilage of starch, filter, add nitric acid, and the color will indicate iodine.

Treatment.—Promote vomiting, resort to the free administration of amy-

laceous and mucilaginous fluids, and treat the inflammatory symptoms as they occur.

IODIDE OF POTASSIUM.

Symptoms.—Uneasiness of the stomach, followed by nausea, and a burning sensation in the stomach, vomiting, cephalalgia, vertigo, and tremors.

Morbid Appearances.—Stomach contracted; mucous membrane, with ecchymosed spots, and some abrasions; marks of inflammation in the intestines.

Tests.—Solid state: heat with the protoxide of manganese; moisten the powder with a mixture of equal parts of sulphuric acid and water; heat in

a tube, and the purple vapor of iodine makes its appearance.

In solution: add to the filtered fluid an equal quantity of mucilage of starch, and a few drops of nitric acid, and the characteristic blue color will be produced. Test the urine in the same manner. It may also be detected in the solids of the body, by drying them, incinerating and lixiviating, filtering, and using starch and nitric acid.

Treatment .- The same as for iodine.

IRON.—Not poisonous in a metallic state; but some of its preparations act as irritants, especially the sulphate and the muriate.

Symptoms.—Nausea, vomiting, and purging; sensation of heat in the

stomach and bowels; dejections of a black color, etc.

Morbid Appearances.—Softening of the mucous coat of the stomach and intestines; the whole extent of the alimentary canal of a black color; marks of inflammation.

Tests.—For the sulphate: ferrocyanide of potassium will give a greenishblue precipitate, becoming a deep blue by exposure to the air; hydrosulphuret of ammonia will give a black precipitate; and gallic or tannic acid will give a bluish-black precipitate. The presence of sulphuric acid can be ascertained by means of nitrate of barium.

Treatment.—In poisoning by either salt, magnesia or the alkaline carbo-

nates should be freely given.

LEAD.—In a metallic state, lead does not appear to be poisonous; but most of its compounds are, especially the acetate, chloride, carbonate, and oxide.

Symptoms.—Obstinate constipation, violent colic with retraction of the abdomen; vomiting, pulse small and hard, laborious breathing, and tremors, gums with a blue tinge, paralysis of the extremities, etc.

Morbid Appearances.—The appearances on dissection are very various,

but are principally those of inflammation.

Tests.—In a solid state: Mixed with potassa and charcoal, and exposed to a red heat (or placed in a suitably sized hollow in a piece of charcoal,

and exposed to a blow-pipe flame), metallic lead is formed.

In solution: Sulphuric acid, and the sulphates, throw down a white (sulphate of lead) precipitate. Solution of carbonate of sodium gives a white (carbonate of lead) deposit. Solution of chromate of potassium a rich yellow (chromate of lead) precipitate. Solution of iodide of potassium affords a yellow (iodide of lead) precipitate. Transmission of hydrosulphuric acid produces a blackish (sulphuret of lead) precipitate. Zinc precipitates lead from a solution of any of its salts.

To render the carbonate amenable to the foregoing tests, it must first be

dissolved in a sufficiency of nitric acid diluted with distilled water.

Treatment.—Administer a solution of sulphate of zinc in full doses; induce and continue vomiting. If an insoluble salt of lead is the poison,

almond or olive oil must at first be given in considerable quantity. The free exhibition of the sulphate of sodium, or magnesium, or of milk, or albumen, to be followed by an emetic. In lead-colic, the treatment consists of active purgatives, followed by full doses of opium or Dover's powder. Inflammatory symptoms are counteracted by antiphlogistic means.

LOBELIA. See Vegetable Poisons.

MERCURY.—In a metallic state, mercury exercises but a slight influence on the body, but in a state of vapor it is capable of causing violent symptoms. All the salts of mercury are poisonous; but the most important is corrosive sublimate.

Symptoms.—The symptoms caused by corrosive sublimate resemble those produced by arsenic, but, from the salt being more soluble, they are more immediate and violent; there is a more marked taste, the evacuations are more frequently bloody, and there is a whitened condition of the epithelium of the mouth. There are three varieties of poisoning with mercury. In the first, the leading symptoms are, violent irritation of the alimentary tube; namely, vomiting, purging, pain at the pit of the stomach, and irritation in the throat; metallic, styptic taste, corrosion of the mouth, tongue, and palate; constriction of the throat, and difficulty of swallowing. evacuated both by vomiting and by stools, suppression of urine, countenance flushed, tumid, and bloated. In the second variety, salivation and sloughing of the mouth succeed to the irritation and inflammation. In the third, mercurial erethism comes on, and is not preceded by the symptoms of local irritation. The first variety arises from the more soluble salts of mercury, in large doses; the second, from the same preparations, but in smaller doses and more diluted; the third, by the more insoluble and refractory compounds.

Morbid Appearances.—These are similar to those attendant on irritative or corrosive poisoning. There are, frequently, shrivelling of the tongue, and enlargement of its papillæ and root. In some cases, red and black spots in the cavities of the heart. Corrosion, ulceration, and disorganization of the mucous coat of the stomach and intestines. An inflamed condition of

the urinary organs is also frequently observed.

Tests.—Corrosive sublimate in a solid state: Is sublimed when heated in a test-tube; and the acrimonious fumes speedily condense into a crystalline, semi-transparent mass. Placed in a test-tube, and lime water, potassa, or soda, added in solution, a yellow (peroxide of mercury) precipitate is thrown down.

In solution: Ammonia throws down a white (ammonio-chloride of mercury) precipitate. Solution of proto-chloride of tin affords a (calomel) precipitate, which, at first, is white, but acquires a leaden color on adding more of the test; when this precipitate (after being well agitated) is dried, minute globules of quicksilver are formed. Transmission of sulphuretted hydrogen produces a (sulphuret of mercury) precipitate, which at first is leaden-colored, then black. Solution of iodide of potassium affords an intensely brilliant scarlet (biniodide of mercury) precipitate, which dissolves in an excess of the test. Corrosive sublimate may be reduced to the metallic state through galvanic influence, applied as follows: A drop of the suspected fluid being laid on a piece of polished gold, and both it and the gold touched at the same instant by a point of iron (as a thick needle, or the end of a penknife), a small silvery coating of mercury soon becomes apparent on the gold. Being freely soluble in sulphuric ether, addition of this fluid is of much service when the poison is found mingled with organic or other matters.

.The Cyanide: When heated in a tube, cyanogen gas is evolved, which, when inflamed at the mouth, burns with a rose-red flame, with a blue halo.

Calomel: Is sublimed by heat. When treated with potassa, or lime water,

it assumes a black appearance, mercurous oxide being separated.

The Biniodide: On cautious application of heat, it sublimes in red-colored crystals, which soon change to yellow, and subsequently to a dusky hue. On exposure to a sufficient degree of heat, iodine fumes are disengaged. When mixed with potassa (equal weights) and heated in a test-tube, decomposition occurs; metallic mercury being sublimed, and iodide of potassium deposited in the tube.

Red Precipitate: Exposed to heat in a test-tube, metallic mercury is

sublimed; evolution of oxygen being at the same time demonstrable.

The Persulphate: Treated in the same manner as the foregoing, sublimation of the mercury takes place; and sulphurous acid gas is perceptibly evolved.

Treatment.—If vomiting does not already exist, it must be produced by the exhibition of emetics. Various antidotes have been suggested for this poison. The best appears to be albumen of eggs in continuous large doses, and infusion of catechu afterwards; sweet milk; mixtures of flour with water (for the sake of the gluten) in successive cupfuls; iron filings; emetics of tartrate of antimony and potassium have been recommended, to combat ptyalism, when present; but to check excessive salivation, small doses of the chlorate of potassium appear to be the most successful.

The hydrated proto-sulphuret of iron has been proposed by Mialhe, and confirmed by Orfila, who says, if it be taken immediately after the ingestion of the corrosive sublimate, it destroys completely the poisonous properties

of the latter.

Morphia. See Vegetable Poisons. Opium.

Nux Vomica. See Vegetable Poisons.

OPIUM. See Vegetable Poisons.

Phosphorus.—A corrosive poison.

Symptoms are protracted in their appearance. A hot alliaceous taste in the mouth; acrid burning sensation in the throat and stomach; nausea and vomiting. The vomited matters are of a dark color, and emit white fumes; pulse small and frequent; sometimes violent convulsions.

Morbid Appearances.—A general inflammatory appearance of the stomach

and intestines, with sphacelated spots in various parts.

Tests.—The peculiarity of its odor; its highly inflammable property, when only moderately heated, and, when rubbed on the skin, its property of render-

ing the latter luminous in the dark.

Treatment.—Mixture of magnesia and cold water, in repeated draughts. Promote continuous vomiting by tickling applications of a feather to the fauces. The exhibition of oil is injurious, as it tends to dissolve the phosphorus.

STRYCHNIA. See Narcotico-irritants, under the head of Vegetable Poisons.

TIN .- This is not poisonous in a metallic state; but some of its salts, as

the chlorides, are violent irritants.

Symptoms.—An austere metallic taste; constriction of the throat, impeded respiration, violent vomiting, cramp of the stomach and violent colic, purging, pulse small and quick, convulsions, sometimes paralysis, asphyxia.

Morbid Appearances.—Inflammation and erosion of the stomach and intestines.

Tests.—Chloride of gold gives a deep purple-brown, almost black precipitate. Nitrate of silver affords a white precipitate, insoluble in nitric acid. Sulphuretted hydrogen throws down a deep chocolate-brown precipitate, even in diluted solutions.

Treatment.—Copious draughts of milk; then excite vomiting. Inflammatory symptoms to be combated by antiphlogistics, and nervous irritation by opiates and antispasmodics.

Vegetable Poisons.—These are very numerous, and possessed of the most different qualities; some being mere irritants, others narcotic irritants—whilst another class are pure narcotics.

IRRITANTS.—This includes a great number of vegetable substances, the principal of which are Aloes, Arum, Capsicum, Colocynth, Creasote, Croton Seeds, Elaterium, Euphorbium, Gamboge, Jalap, Mezereon, Castor Seeds, Savin, Scammony, etc.

Symptoms.—Many of these articles act especially on the bowels, and in moderate doses are efficaciously used as purgatives. In large doses, they cause hypercatharsis, and much irritation of the stomach and bowels.

Morbid Appearances.—These are various degrees of inflammation of the stomach and bowels.

Tests.—None by means of reagents. The rich yellow color of gamboge may sometimes prove a means of its detection; and familiar acquaintance with others of the above substances may lead to their recognition by smell, taste, etc.

Treatment.—The expulsion of the poison by means of emetics, and, when this is effected, copious demulcent drinks in a warm state; succeeded by liquid cordial, stimulant, or opiate medicines suited to particular circumstances.

NARCOTICS.—This is a small class of the vegetable poisons, the most important of which are Opium, Hydrocyanic Acid (see page 689), and Hyoscyanus.

#### OPIUM.

Symptoms.—A dark, suffused countenance, drowsiness, stupor, perfect insensibility, followed by delirium or profound coma; then a pallid countenance, deep and stertorous breathing, cold sweats, slow and full pulse, cold and livid skin, suspension of all the secretions except perspiration; at length, the pulse becomes frequent, feeble, and thread-like; and, sometimes, convulsions, particularly in children.

Morbid Appearances.—Occasionally redness of the stomach and intestines, fluidity of the blood, engorgement of the lungs; but the only post-mortem appearance that appears to occur in all cases is turgescence of the vessels of the brain, sometimes with effusion of water on its surface or into the ventricles. But this condition of the brain does not furnish of itself any evidence of poisoning by opium, as it is frequently found to arise from a variety of other causes.

Tests.—Opium in substance: its peculiar taste, color, and odor (especially the latter quality when arising from opium in a softened or moist state, and more so if it be moderately heated; as when just obtained from the stomach).

In solution: Tincture of the chloride of iron produces a (meconite of iron) red coloration, which is not changed on the addition of solution of corrosive

sublimate, but is discharged by hydrochloric acid. Tannic acid yields a

white (tannate of morphia) precipitate.

When the suspected fluid has been procured from the stomach, it usually contains a mixture of organic substances; these must be broken down, and the whole rendered sufficiently fluid by the addition of distilled water when necessary, and then be slightly acidulated with acetic acid. The liquor thus obtained, when well agitated, and filtered, must be evaporated to consistence of syrup. And, after being digested with alcohol, it must be boiled, and again concentrated to nearly the consistence of syrup. When this alcoholic extract (as it has been called) is dissolved in distilled water, the solution of ammonia, cautiously added, produces a precipitate of morphia, which acquires a deep-red color changing to yellow, when nitric acid is dropped into it, and a blue color on the addition of tincture of chloride of iron. When the last named precipitate is removed by filtration, and acetate of lead added to the supernatant (meconate of ammonium) liquor, a (meconate of lead) deposit is afforded; which, when suspended in water, is decomposed by the transmission of sulphuretted hydrogen; a dark precipitate being thereby thrown down. The fluid remaining from this last process acquires a deep cherry-red hue on the addition of the tincture of chloride of iron.

Morphia in the solid state: Is only slightly soluble in water. Nitric acid turns it first to an orange, and then to a deep orange-red color. Chloride of iron gives a blue color, which is destroyed by acids. Iodic acid is decomposed by morphia, and iodine is set free. To show this, the acid is to be mixed with starch; on the addition of morphia the iodine combines with the starch, which becomes of a blue color, if the quantity be large, or of a reddish

or purplish tint, if it be small.

Treatment.—The stomach to be evacuated by means of the stomach-pump, as speedily as possible. This is to be pursued until the water used no longer has the smell or taste of opium. When a stomach-pump cannot be procured, or if the patient shall have swallowed solid opium, emetics of sulphate of zinc should be administered, until the stomach is freed; strong decoctions of tea or coffee, or other vegetable astringents, are found useful in the intervals. Cold affusions on the head, chest, and spine have been used with great success, and the subcutaneous injection of atropia has been recommended. Flagellation and other means of arousing the patient from a state of lethargy must also be employed. Bleeding should not be resorted to until all the poison has been eliminated, as the abstraction of blood tends to promote absorption, and, even then, with much caution. The administration of vinegar is also objectionable. The best liquid that can be given is a strong decoction of coffee. The various antidotes that have been recommended are useless.

The evidence, in favor of the successful employment of artificial respiration in cases that were apparently desperate, has become so strong and unquestionable, that no practitioner is justifiable in abandoning his case until this measure has been faithfully tried. Active stimulation is often required.

#### HYOSCYAMUS.

Symptoms.—Sickness, stupor, dimness of sight, and delirium, followed by coma and much dilatation of the pupils; pulse at first hard, but becoming weak and tremulous; petechiæ often making their appearance before death.

Morbid Appearances.—Inflammation of the stomach, bowels, and brain.

Tests.—There are no tests that can be relied upon, except a recognition of the plant, and the nature of the symptoms.

Treatment.—The speedy evacuation of the poison, by means of emetics

and purgatives, and the subsequent use of acidulous drinks.

The propriety of the latter recommendation has been doubted, notwith-

standing the high European authority in its favor, because the use of acidulous drinks will result in the formation of soluble salts with the remnants of the hyoscyamia that may be in the stomach; thereby adding to the danger. The free use of vegetable astringents in solution has been suggested instead.

NARCOTICO-IRRITANTS.—These are very closely allied in their effects to the last class, but have a more direct action on the spinal marrow and nerves. as shown by the more frequent occurrence of convulsions and paralysis. They differ much from each other in their action on the system; most of them, however, owing their properties to the presence of an alkaloidal prin-The most important are: Digitalis, Veratrum, conium, colchicum. LOBELIA, ACONITUM, BELLADONNA, STRAMONIUM, TABACUM, NUX VOMICA, etc.

Symptoms.—These are various, but, in general, vertigo, coma, delirium, paralysis, or convulsions, with disturbance and pain in the stomach and intestines, are observed. Those belonging to the nux vomica tribe have marked effects on the spinal marrow, causing tetanus and convulsions, but seldom coma or delirium; whilst, on the other hand, squill and foxglove produce symptoms of narcotism, preceded by vomiting, and other signs of

irritant action on the stomach.

Morbid Appearances.—These, like the symptoms, are very various. In some cases, there is inflammation of the stomach and intestines; in others, this is wholly wanting. Where there have been symptoms of cerebral disturbance, traces of congestion of the brain are usually discernible, but are

not found in every ease.

Tests.—Most of these poisons, as before said, owe their deleterious powers to the presence of an alkaloidal principle, which is exceedingly difficult to detect by chemical tests; hence the strongest evidence is to be derived from an inspection of the fragments of the plant itself, if it has been administered in substance; but this mode of discrimination fails where the poison has been taken in the form of extract, infusion, or decoction. In such cases, the only reliance is on the symptoms and concomitant circumstances.

Conia, the active principle of conium, when liberated from its combinations by potassa, is volatile, and exhales a strong mouse-like or urinous odor. With the vapor of muriatic acid, it forms dense white fumes. The odor of conia is so characteristic, that it can scarcely be confounded with any other

poisonous agent.

Veratria affords a reddish-yellow solution with nitric acid, an intensely-red one with concentrated sulphuric acid, and a white precipitate with tannic

acid. When applied to the nose, it causes severe sneezing.

Brucia (found in the seeds of the nux vomica) is colored red by nitric acid, and this color changes to violet by the addition of protochloride of tin. With chlorine it gives a red color. Sulphuric acid first reddens brucia, and

then turns it yellow and green.

Pure strychnia (also found in the nux vomica) may be recognized by rubbing a small portion with a few drops of sulphuric acid, containing onehundredth of its weight of nitric acid. No change ensues; but the addition of a very small quantity of the peroxide of lead, or of bichromate of potassium, changes the solution to a blue color, then to a red, and in the course of a few hours to a yellow color. Commercial strychnia sometimes affords a red color, changing to a yellow, with nitric acid, owing to the presence of brucia.

Treatment.—This consists in the prompt use of emetics, or the stomachpump, followed by the administration of purgatives. No general antidote can be relied upon; but, as tannic acid precipitates these alkaloids, the free use of decoctions or infusions containing it may be resorted to with advantage; or animal charcoal may be freely administered for its absorbent

qualities.

In poisoning by nux vomica and strychnia, the inhalation of chloroform will in a measure control the spasms; aconite and chloral have been recommended as antidotes, and the subcutaneous injection of Calabar bean has been found advantageous.

ZINC.—This has no poisonous properties in a metallic state, but several of its salts possess active powers. Of these, the sulphate or white vitriol is the most common, and therefore the most likely to occasion unpleasant consequences.

Symptoms.—Pain in the abdomen, violent vomiting and diarrhea, quick pulse, paleness and contraction of the features, coldness of the extremities.

There is always a very austere taste in the mouth.

Morbid Appearances.—Marks of imflammation in the stomach and intes-

Tests.—Ammonia gives a white precipitate, soluble in an excess of the alkali. Chromate of potassium affords an orange-red deposit, the chromate of zinc.

Treatment.—The free exhibition of warm water with milk, albumen, magnesia, etc. Infusions containing tannic acid. Where the poison has entered the bowels, emollient clysters are to be given.

The following table, from Taylor "On Poisons," gives a succinct view of the most approved antidotes for the several poisons noticed in the foregoing pages:—

#### NON-METALLIC POISONS.

Poisons.		Antidotes.
Mineral Acids.	Sulphurie, Nitrie, Muriatie,	Magnesia mixed with water or milk; carbonate of calcium; compound chalk powder; soda,
Vegetable Acids.	Nitro-Muriatic, Oxalic, Tartaric,	potassa; the fixed oils.   Carbonate of calcium. (Chalk or   whiting.)
Salts.	Binoxalate of potassium, Bitartrate of potas-	Carbonate of calcium. Sulphate of calcium, and water.
Alkalies.	Potassa, soda, am- monia, and their carbonates,	Vinegar, lemon juice, citric acid, oil.
Salts.	Baryta and its solu- ble salts, Carbonate of barium, Alum,	Sulphate of sodium, potassium, magnesium or calcium.  Mixture of sulphate of magnesium and vinegar.  Carbonate of sodium or ammonium.

#### METALLIC POISONS.

Arsenic and soluble arsenites.

Corrosive sublimate and salts of mercury.

Hydrated per-oxide of iron; hydrated magnesia.

Mixture of oil and lime water.

Albumen, gluten, or flour diffused in water; milk.

Poisons.

Soluble salts of lead.

Carbonate of lead.

Soluble salts of copper.

Tartar emetic.

Chloride of antimony.

Salts of tin.

Sulphate or acetate of zinc.

Sulphate of iron.

Nitrate of silver.

Antidotes.

The alkaline, or soluble earthy sulphates.

Sulphate of magnesium and vine-

Albumen, gluten, flour diffused in water; milk.

Decoctions and tinctures containing tannic acid.

Magnesia.

Carbonate of sodium; magnesia. Milk; carbonate of sodium; mag-

nesia.

Milk; carbonate of sodium; mag-

nesia.

Carbonate of sodium or ammo-

Chloride of sodium.

NARCOTIC POISONS.

Opium; hyoscyamus.

Prussic acid.

Emetics; stomach pump; cold affusion. Strong decoction of coffee; electro-magnetism; tannic acid. Ammonia; chlorine; cold affusion.

Modes of Distinguishing some of the Vegetable Alkaloids, when in Powder.

Treat the powder with nitric acid; this is colored red by Brucia, Delphia, Morphia, and by the Strychnia of commerce, but not the pure. If the reddened acid becomes violet on the addition of protochloride of tin, it is Brucia; if it becomes black and carbonaceous, it is Delphia. If the powder is fusible without decomposition, and decomposes iodic acid, it is Morphia; if it is not fusible without decomposition, and does not decompose iodic acid, it is Strychnia. If the powder strikes a green with nitric acid, it is Solania; if insoluble in ether, and does not redden nitric acid, it is Emetia; if soluble in ether, does not redden nitric acid, but melts and volatilizes with heat, it is Atropia; if thus affected by ether or nitric acid, but does not volatilize, it is Veratria.

## INDEX

OF

### DISEASES AND THEIR REMEDIES.

Abscess. Lead ointment, 449. Lead cataplasm, 449. Caustic potassa, 452. Soap cataplasm, 515.

Abscess, Mammary. Liniment acetate lead, 446. Oint. iod. potass. and morphia, 467.

Acidity of Stomach. Ammonia, 122. Lime water and milk, 186. Prepared chalk, 183. Alkaline infusion cascarilla, 209. Milk and soda water, 367. Magnesia mixt., 380. Carbonate potass., 458. Alkaline tincture rhubarb, 495. Purgative pastilles, 522. Carbonate sodium, 544. Lozenges, soda, 541.

Acne. Wash of benzoin, 174. Ointment of subacetate lead, 447. Compound powder sulphur, 562.

AMAUROSIS. Ammoniac mixture, 120. Anemone, 136. Chloride of gold and sodium, 160. Comp. powder sulphate mercury, 344. Pills strychnia, 557. Collyrium and liniment strychnia, 558. Powder white hellebore, 582.

Amenorrhea. Mixture of yarrow, 86. Hiera picra and other preparations of aloes, 108, 110, 196. Rufus's pills, 109. Injection ammonia, 122. Chloride of ammonium, 127. De Haen's pills, 120. Pills of ammoniac, 119. Iodide of calcium, 185. Cantharides and savine, 197. Compound pills of columbo, 190. Mayweed, 252. Saffron, 254. Infusion dittany, 257. Metallic iron, 278. Bolus metallic iron, 278. Ammoniated iron, 279. Ointment bromide iron, 281. Pills carbonate iron, 281. Mixture chloride iron, 284. Lozenges iodide iron, 289. Ointment iodide iron, 291. Black oxide iron, 294. Phosphate iron, 295. Sulphate iron, 297. Hooper's pills, 109, 297. Compound galbanum pills, 303. Compound infusion gentian, 308. Compound tincture guaiacum, 319. Ammoniated tincture guaiacum, 319. Infusion pennyroyal, 321. Bacher's pills, 322. Tincture black hellebore, 322. Compound pills iodide mercury, 339. Saturated tineture iodine, 351. Clyster iodine, 353. Oxide of manganese, 386. Horehound, 388. Myrrh and sulphate iron, 405. Tincture myrrh and hellebore, 406. Madder, 500. Decoction madder, 501. Savine and ginger, 504. Savine pills, 504. Oil savine, 504. Seneka, 529. Compound infusion senna, 533. Mixture of borax, 543.

Anasarca. Calomel and squill, 335. Cream of tartar, 456. Mixture dandelion, 570.

ANÆSTHETIC REMEDIES. Sulphuric ether, 105. Chloroform, 223.

Angina Pectoris. Assafetida and musk, 154. Succinate of ammonium, 130. Angina Syphilitic. Mercurial gargle, 327.

APHONIA. Decoction arnica, 150.

- APHTHÆ. Decoction wild indigo, 167. Barberry, 174. New Jersey tea, 214. Chlorine, 222. Infusion goldthread, 250. Collutory creasote, 253. Soot mouth-wash, 302. Collutory rhatany, 365. Mixture carbonate potassium, 460. Lozenges borax, 542. Collutory borax, 542. Honey borax, 543.
- Arsenic, Poisoning by. Hydrated oxide of iron, 293. Mixture of sulphuret of potassium, 476.
- Ascarides. Suppository aloes, 111. Injection aloes, 112. Clyster southernwood, 151. Assafetida and iron, 154. Clyster assafetida, 154. Clyster camphor, 194. Wormseed, 220. Compound tincture tartrate of iron, 287. Mixture of rue, 503. Mixture senna, 533. Infusion tansy, 568.
- Ascites. Electuary Per. bark and iron, 230. Colocynth mixture, 243. Pill foxglove, 265. Foxglove and tartaric acid, 266. Elaterium mixture, 270. Gamboge mixture, 306. Black sulphuret of mercury, 344. Cream of tartar, 455. Mixture dandelion, 570.
- Asthma. Ammoniac pill, 119. Ammoniac mixture, 120. Assafetida mixture, 154. Benzoin, 173. Catalpa, 212. Coffee, 237. Hypodermic injection conia, 246. Tincture larkspur, 263. Pill foxglove, 265. Skunk cabbage, 268. Galbanum mixture, 303. Henbane and squill, 348. Mixture elecampane, 350. Oymel elecampane, 351. Ipecacuanha and soda, 355. Ipecacuanha and nitre, 355. Ipecacuanha and foxglove, 356. Tincture lobelia, 377. Opium and foxglove, 420. Opium and castor, 421. Solution cyanide potass., 463. Scillitic acetate potassium, 453. Mixture of carbonate potassium, 460. Crowfoot, 489. Mixture extract elder berries, 509. Squill and ammoniac, 523. Compound tincture squill and benzoin, 525. Compound stramonium pills, 555.

ATROPHY. Mixture eggs, 430

- Bed Sores. Alum liniment, 118. Mixture of tineture camphor, 193. Carbonate lead plaster, 448. Liniment and ointment tannate of lead, 450.
- Bladder, Diseases of. Benzoic acid, 89, and copaiba, 89. Gallic acid, 93. Benzoate ammonium, 125. Sal ammoniac draught, 128. Buchu, 179. Emulsion cantharides, 197. Electuary of cubebs, 255. Infusion of flax-seed, 375. Pareira brava, 433. Paullinia, 434. Mixture carbonate sodium and copaiba, 541. Couch grass, 575. Compound powder uva ursi, 576.
- Bones, Pains of. Decoction mezereon, 395. Tincture acetate strychnia, 558.
- Bronchitis. Inhalation, carbolic acid, 90. Tannic acid, 101. Anisated ammoniated alcohol, 124. Nitrate of silver, 146. Indian turnip, 152. Iodide calcium, 185. Colchicum mixture, 241. Creasote pills, 252. Monesia, 397. Linetus opium, 424. Sumbul, 566.
- Bubo. Mercurial plaster, 330. Ointment iodoform, 354. Anodyne ointment, 423. Plaster acetate lead, 447. Lead ointment, 449. Lead cataplasm, 449.
- Burns, Scalds. Carbolic acid, 91. Ointment wild indigo, 167. Lotion benzoin, 174. Ointment of tannin and bismuth, 176. Solution chlorinated lime, 188. Lime water and oil, 186. Compound creasote ointment, 253. Carded cotton, 314. Cerate cherry-laurel, 371. Liniment of lime, 186. Kentish's ointment, 415. Liniment eggs, 431. Basilicon ointment, 489.
- Calculous Affections. Draught muriatic acid, 96. Phosphate of ammonium, 129. Lime water and carbonate potassium, 186. Peruvian bark, 226. Wild potato, 247. Mixture Prussian blue, 288. Nitrate of

iron, 292. Magnesia and gentian, 380. Solution nitro-saccharate lead, 450. Solution caustic potassa, 452. Borate of potassium, 357. Mixture bicarbonate potassium, 465. Pills carbonate sodium, 545. Lozenges bicarbonate sodium, 541. Injection carbonate sodium, 545. Uva ursi, 576.

CALCULI, BILIARY. Turpentine and ether, 414.

Cancer. Arsenical powder, 88. Solution of arsenic, 88. Carbolic acid lotion, 91. Chromic acid, 92. Injection alum, 118. Acetate ammonium, 124. Iodide arsenic, 150. Chloride gold, 160. Chloride barium, 168. Compound pills belladonna, 171. Extract marigold, 189. Liniment marigold, 189. Carrot ointment, 207. Hemlock, 244. Cataplasm hemlock, 246. Arseniate of iron, 280. Phosphate iron, 296. Compound soot ointment, 302. Hop ointment, 326. Iodoform, 354. Infusion cherry-laurel, 370. Ointment cherry-laurel, 371. Ointment turpentine, 572. Ointment carbonate lead, 447. Ointment chloride lead, 448. Lotion chloride lead, 448. Ointment iodide potass. and opium, 467. Solution chlorinated soda, 539. Chloride zinc, 586.

CANCRUM ORIS. Pyroligneous acid, 88. Solution chlorate patassium, 461.

CARDIALGIA. Oil of wormwood, 84. Mixture boracic acid, 90. Acetic ether, 104. Ammonia, 121. Lime water and potass., 186. Columbo and magnesia, 190. Ignatia, 340. Compound powder of kino, 363. Magnesia mixture, 380. Nux vomica, 408. Rhubarb and chalk, 490. Carbonate sodium and rhubarb, 544.

Caries. Phosphoric acid, 98. Creasote ointment, 253. Cataract. Anemone, 135. Solution of atropia, 157.

Catarrh. Carbolized ether, 90. Gum mixture, lozenges, etc., 84. Mixture benzoic acid, 89. Infusion and syrup of maidenhair, 104. Hydrocyanic ether, 105. Garlic, 107. Marshmallow, 114. Ammoniac mixture, 120. Ammoniac and nitric acid, 120. Ammoniated anisated alcohol, 124. Almond emulsion, 133. Starch lozenges, 135. Lozenges kermes mineral, 141. Mixture kermes mineral, 141. Tronchin's lozenges, 141. Tartar emetic and opium, 143. Arum, 152. Syrup asparagus, 153. Butter cacao, 181. Catechu and liquorice, 213. Powder spermaceti, 217. Spermaceti mixture, 217. Mixture bittersweet, 269. Emetia lozenges, 271. Barley sugar, 324. Prepared liquorice, 313. Mixture henbane, 347. Compound pills elecampane, 350. Mixture elecampane, 350. Compound oxymel elecampane, 351. Ipecacuanha lozenges, 356. Lozenges ipecacuanha and camphor, 356. Sugar of milk and Iceland moss, 506. Lozenges lactucarium, 369. Horehound syrup and candy, 389. Pectoral hydromel, 391. Mixture balsam Peru, 165. Myrrh and squill, 504. Solution cyanide potassium, 463. Nitrate potassium and orris root, 471. Syrup red poppies, 496. Squill and ipecacuanha, 523. Seneka and prep., 529-530. Sulphur and liquorice, 562. Sulphur and orris root, 562. Turpentine and myrrh, 571. Emulsion balsam tolu, 166. Mixture tolu and morphia, 166. Green hellebore, 583. Pastilles de Paris, 596.

Cephalalgia. Mixture vinegar and cardamom, 86. Lotion ammonia, 123. Carbonate ammonium, 126. Asarabacca, 152. Ward's essence, 194. Castor plaster, 212. Sneezewort, 321. Liniment oil amber, 561. Mixture valerian and ammonia, 579. Valerianate zinc, 592.

CEREBRAL AFFECTIONS. Clyster tartar emetic, 144. Horseradish, 148. Clyster colocynth, 243. Bolus of foxglove, 264. Infusion galium, 305. Mixture boro-tartrate potass., 457. Clyster common salt and arnica, 546.

CHANCRE. Syrup gold, 160. Ointment gold, 160. Creasote lotion, 253. Mercurial lotion, 327. Mercurial liniment, 350. Black wash, 341. Yellow wash, 342.

- Chaps. Glycerin, 312. Anodyne ointment, 423. Liniment carbonate potassium, 459. Cold cream, 133, 217. Ointment elder leaves, 509. Camphorated soap, 513.
- CHILBLAINS. Muriatic acid lotion, 96. Sulphuric acid liniment, 100. Alum ointment, 119. Solution chloride lime, 186. Camphor ointment, 195. Liniment of cantharides, 199. Tincture Cayenne pepper, 203. Compound ointment creasote, 253. Ointment henbane, 348. Lotion iodine, 352. Liniment balsam Peru, 164. Turpentine lotion, 413. Embrocation petroleum, 435. Soap iodide potass., 468. Lotion carbonate potass., 460. Liniment pellitory, 479. Rose oil, 498. Mustard liniment, 538. Borax ointment, 543.
- Chlorosis. Pills aloes and iron, 109. Barthez's pills, 111. De Haen's pills, 120. Metallic iron, 278. Compound powder metallic iron, 278. Pills metallic iron, 278. Bolus ammoniated iron, 280. Pills carbonate iron, 281. Tincture chloride iron, 283. Bath iodide iron, 291. Oxalate iron, 293. Black oxide iron, 294. Electuary black oxide iron, 294. Sulphate iron, 297. Blaud's pills, 297. Syrup sulphate iron, 298. Tartrate of iron and potass., 286. Tannate iron, 298. Compound galbanum pills, 303. Oxide manganese, 386. Chocolate with paullinia, 434. Compound rhubarb pills, 491. Decoction madder, 501. Compound powder valerian, 577.
- Cholera. Carbolic acid mixture, 91. Mixture nitric acid, 97. Liniment nitric acid, 97. Compound bismuth powder, 175. Camphor powder and mixture, 191–193. Extract hemp, 196. Infusion logwood, 320. Sugar milk draught, 506. Opium and acetate lead, 420. Compound pill acetate lead, 444. Mixture bicarbonate potassium, 455. Stevens's saline powder, 461. Plaster sulphate quinia, 488.
- Cholera Infantum. Logwood, 320. Milk and suet, 367. Acetate lead, 444. Infusion benne, 536.
- CHOREA. Arsenic, 150. Ammoniated copper, 259. Carbonate iron, 281. Mixture Dippel's animal oil, 409. Calabar bean, 437. Mixture cyanide potass., 463. Oxide zinc, 589. Ethereal tincture chloride zinc, 587. Ferro-cyanide zinc, 588. Black snakeroot, 225.
- Colic. Alkaline tincture wormwood, 83. Anise, 137. Dewees's carminative, 156, 381. Clyster assafetida, 154. Infusion caraway, 207. Embrocation caraway, 208. Clove plaster, 208. Infusion catnep, 212. Infusion cinnamon, 234. Infusion fennel, 300. Oil pennyroyal, 321. Oil laurel, 370. Mace, 379. Dalby's carminative, 381. Plaster opium and camphor, 422. Opium liniment, 422. Cataplasm black pepper, 440. Emulsion carbonate potassium, 459. Tincture rhubarb and gentian, 494. Compound sagapenum pills, 507. Terebinthinate balsam sulphur, 563. Infusion tobacco, 567. Clyster turpentine, 571. Turpentine mixture, 572. Ginger, 593. Spice plaster, 594.
- Colica Pictonum. Sulphuretted water, 95. Sulphuric acid lemonade, 99. Alum mixture, 118. Alum julep, 118. Liniment belladonna, 172. Electuary of jalap, 360. Opium and sulphur, 419. Opium and cinnamon water, 426.
- CONDYLOMATA. Lotion corrosive sublimate and camphor, 333. Red oxide mercury, 342.
- Constipation. Acetic acid clyster, 87. Preparations aloes, 108. Assafetida and aloes, 94. Mitchell's pills, 109. Anderson's pills, 109. Webster's pills, 109. Morrison's pills, 109. Griffitt's pills, 492. Tartar emetic clyster, 144. Pills of aloes and assafetida, 108. Charcoal electuary, 205. Pills elaterium, 270. Extract butternut, 361. Compound pills buckbean, 395. Glycerite of Calabar bean, 438. Compound rhubarb

pills, 491. Rhubarb and ox gall, 492. Senna, 531. Compound solution sulphate of sodium, 548. Rochelle salt, 464. Compound powder sulphur, 562. Clyster turpentine, 571.

Contusions. Sulph. acid and alcohol, 99. Lotion sal ammoniac, 127. Liniment sal ammoniac, 12.8. Arnica and rue, 150. Lotion sulphate copper, 261. Cataplasm hops, 326. Arquebusade water, 394. Compound spirit nutmeg, 405. Fomentation carbonate potass., 459. Lotion nitrate potass., 472. Wine and vinegar of roses, 499. Aromatic fomentation, 401. Aromatic vinegar, 87. Opodeldoc, 514. Soap liniment, 514. Fomentation common salt, 546. Turpentine liniment, 571.

Convulsions. Garlie, 107. Assafetida mixture, 154. Monobromated camphor, 195. Powder of foxglove, 264. Musk clyster, 402. Liniment oil amber, 561.

Cornea, Affections of. Aloes, 108. Anemone, 135. Ointment cyanide silver, 146. Ointment iodide silver, 146. Ointment sulphate cadmium, 182. Powder calomel and sugar, 335. Compound ointment cod-liver oil, 411. Collyrium caustic potass., 452. Collyrium carbonate potass., 459.

Corns. Plaster ammonia, 123. Verdigris ointment, 258. Verdigris plaster, 258. Lotion iodine, 352.

Coryza. Lozenges cubebs, 255. Injection opium, 424.

Cough. Mixture gum Arabic, 84. Jackson's cough syrup, 85, 596. Hydrocyanic ether, 105. Marshmallow, 114. Ammoniac, 119. Almond emulsion, 133. Green linctus, 133. White linctus, 133. Tartar emetic, 142. Antimonial wine and ammoniac, 145. Assafetida and squill, 155. Camphorated cough mixture, 195. Tincture cochineal, 236. Mixture quince seeds, 262. Liquorice, 313. Wistar's cough lozenges, 313. Barley sugar, 324. Powder of ipecacuanha and myrrh, 355. Lactucarium, 368. Syrup of muriate of morphia, 400. Lozenges of naphthalin, 407. Brown cough mixture, 314. Opiate linctus, 428. Wistar's lozenges, 429. Pectoral syrup, 432. Squill, 522. Seneka and prep., 529. Storax, 559. Mixture oil amber, 561. Linctus with sulphur, 663. Mixture tolu and belladonna, 166. Oxide zinc, 589. Jackson's lozenges, 596. Pastilles de Paris, 596.

CRAMP IN THE STOMACH. Ammoniated tincture of castor, 211. Ferrocyanide zinc, 588.

CROUP. Inhalation, carbolic acid, 90. Lactic acid, 96. Carbonate ammonium ointment, 127. Sulphuretted syrup, 130. Sulphate copper, 260. Syrup sulphuret potass., 475. Compound syrup sulphuret potass., 475. Mixture sulphuret potass., 476. Compound syrup squill, 524. Oxymel squill and valerian, 526. Mixture seneka, 530. Cataplasm tobacco, 567.

Cutaneous Diseases. Carbolic acid, 90. Hydrosulphuretted bath, 95. Muriatic acid bath, 96. Sulphurous acid, 100. Lotion alum, 118. Arseniate ammonium, 125. Iodide ammonium, 128. Sulphuretted sulphide ammonium, 130. Sulphuret antimony, 140. Lotion tartar emetic, 144. Iodide arsenic, 150. Donovan's solution, 151. Chloride barium, 168. Ointment subnitrate bismuth, 176. Solution bromine, 178. Lime ointment, 186. Anthracokali, 205. Ointment iodide carbon, 206. Creasote ointment, 253. Decoction bittersweet, 269. Extract bittersweet, 269. Mixture soot, 301. Fuligokali, 302. Decoction guaiacum, 317. Guaiacum and sulphur, 318. Compound mercurial powder, 326. Solution acetate mercury, 331. Ointment white precipitate, 331. Bateman's lotion, 329. Plummer's pills, 336. Calomel ointment, 337. Ointment red iodide mercury, 339. Ointment nitrate mercury, 340. Ointment sulphate mercury, 344. Black sulphuret mercury, 344. Red sulphuret mercury, 345. Oil

of cade, 363. Compound decoction mezereon, 396. Cod-liver oil, 410. Phosphorated cerate, 437. Burgundy pitch, 441. Tar water, 442. Lotion cyanide potass., 463. Ointment iodide potass. and mercury, 467. Ioduretted water, 468. Sulphuret potass., 474. Lotion sulphuret potass., 475. Barlow's lotion, 476. Mixture sulphuret potass., 476. Aromatic bath, 499. Extract elder berries, 509. Sarsaparilla, 516. Ointment bromide sodium, 544. Sulphuret sodium, 549. Arseniate sodium, 540. Soda and ipecacuanha, 544. Ointment carbonate sodium, 545. Hyposulphite sodium, 547. Compound pills sulphate sodium, 548. Lotion sulphate sodium, 549. Sulphur and cream of tartar, 562. Poison oak, 573. Decoction elm bark, 575. Decoction white hellebore, 582. Iodide zinc, 588. Arsenical pills, 89. Lotion of hydrocyanic acid, 94. Hydrosulphuretted bath, 95. Ointment of nitric acid, 97. Goulard's lotion, 132. Safflower, 207. Glycerin, 312. Ethereal tincture of iodine, 351. Chloride of manganese, 385. Fowler's solution, 454. Mixture of iodine and arsenic, 454. Di-arsenite of quinia, 482. Zittman's decoction, 517. Syrup of Laffecteur, 519. Iodide of sulphur, 565.

Deafness. Cayenne pepper lozenges, 202. Acoustic balsam, 595. Injection caustic potassa, 452.

Debility. Preparations cacao, 180. Hypophosphites, 185. Camphor mixture, 193. Wines, etc, cinchona, 232. Elixirs of cinchona, 597. Hartshorn jelly, 251. Preparations iron, 277. Barley meal, 324. Clyster eggs, 430. Mixture eggs, 430. Chocolate and paullinia, 434.

Delirium Tremens. Bromide ammonium, 125. Bromide calcium, 183. Chloral hydrate, 222. Tincture digitalis, 266. Opium and musk, 420. Laudanum and tartar emetic, 429.

DIABETES. Gallic acid, 93. Phosphoric acid, 98. Hydrosulphuret ammonia, 130. Compound pills ammoniated copper, 260. Compound pills kino, 364. Pills acetate morphia, 398. Carbonate potassium and ammonium, 463. Sulphur mixture, 563.

DIARRHEA. Gallic acid, 93. Tannic acid, 100. Acetate aluminum, 115. Angustura, 137. Mixture chamomile, 139. Antimonial Alum, 116. wine and laudanum, 145. Arnica, 149. Dewees's carminative, 156. Subnitrate bismuth, 175. Tannate bismuth, 176. Clyster bistort, 177. Compound powder chalk, 183. Lozenges chalk, 184. Chalk mixture, 184. Columbo, 191-192. Camphor water and laudanum, 192. Camphor water and nitric acid, 193. Compound cascarilla powder, 209. Catechu, 212. Chlorine clyster, 222. Peruvian bark and rhatany, 229. Electuary Peruvian bark, 230. Infusion columbo and ginger, 190. Columbo and cascarilla, 191. Creasote mixture, 252. Sulphate copper, 260. Electuary sulphate copper, 261. Wine persimmons, 268. Infusion black purslane, 276. Mixture ammoniated iron, 280. Persesquinitrate iron, 292. Compound infusion galls, 305. Syrup galls, 305. Geranium, 310. Compound powder of avens, 312. Decoction pomegranate rind, 316. Infusion logwood, 320. Electuary logwood, 320. Compound powder kino, 363. Electuary kino, 364. Compound powder rhatany, 364. Syrup sweet gum bark, 376. Monesia, 397. Injection acetate morphia, 398. Opium and chalk, 419. Roasted opium, 419. Plaster opium and camphor, 422. Mixture wine of opium, 426. Sedative mixture, 426, 433. Bolus allspice, 438. Acetate lead, 444. Acetate lead mixture, 445. Decoction oak bark, 481. Confection acorns, 481. Roasted rhubarb, 491. Rhubarb mixture, 495. Confection dog rose, 497. Electuary roses, 498. Decoction blackberry root, 501. Infusion benne, 536. Hardhack, 552. Compound turpentine plaster, 572. Tormentil, 573. Infusion slippery elm, 576. Mixture of gum Arabic, 84. Subnitrate of bismuth, 175. Columbo and salep, 191. Sweet fern, 294. Oil of ergot, 273. Tincture of gentian, 310. Avens, 311. Barley, 324. Magnesia and rhubarb, 380. Marsh rosemary, 554.

DIPHTHERIA. Gargle, carbolic acid, 91. Creasote, 253. Chloride iron, 284. Chlorate potassium, 461.

DISINFECTION. Prophylactic vinegar, 87. Carbolic acid, 90-91. Gaseous muriatic acid, 96. Chloride of lime, 188. Chlorine, 222. Solution chloride of potass., 461. Permanganate of potassium, 473. Solution chloride soda, 539.

Dropsy. Indian hemp, 196. Infusion and syrup horseradish, 158. Compound spirit and infusion horseradish, 149. Decoction asparagus, 153. Extract asparagus, 153. Chloride gold and sodium, 160. Hairy horehound, 164. Wine bryony, 179. Camphorated ethereal tincture cantharides, 199. Vinegar cayenne pepper, 203. Infusion carrot seeds, 207. Celandine, 219. Pipsissewa, 220. Black snakeroot, 225. Vinegar colchicum, 239. Colchicum and squill, 241. Horsebalm, 242. Colocynth, 242. Powdered foxglove, 264. Pills foxglove, 265. Infusion foxglove, 265. Elaterium, Canada fleabane, 274. Gamboge, 306. Black hellebore, 321. Bacher's pills, 321. Compound wine black hellebore, 322. Jalap and cream of tartar, 359. Compound powder jalap, 359. Compound infusion juniper, 362. Preparations juniper, 362. Mustard whey, 537. Aromatic tineture lettuce, 369. Starkey's soap, 415. Embrocation petroleum, 435. Mixture petroleum, 435. Infusion parsley root, 436. Solution iodide potassium, 466. Scillitic acetate potassium, 453. Liquid acetate potassium, 453. Mixture acetate potassium, 454. Borotartrate potassium, 457. Nitrate potassium and squill, 471. Mixture nitrate potassium, 472. Cream of tartar, 455. Tartrate potassium and ammonium, 464. Decoction elder bark, 509. Confection scammony, 521. Squill, 522. Squill and nitrate potassium, 523. Squill and cream of tartar, 523. Infusion and decoction broom, 528. Acetate sodium, 529. Solution carbonate sodium, 544. Pills tobacco, 566. Wine tobacco, 566. Decoction dandelion, 569. Extract dandelion, 569. Electuary turpentine, 571. Veratria, 580. Sweet spirit of nitre, 552. Infusion of buchu, 179. Extract and decoction of cahinea, 182. Infusion of Peruvian bark, 229. Ethereal tincture of foxglove, 266. Digitalin, 267. Phosphate of iron, 295. Electuary of jalap, 360.

Dropsy, Ovarian. Ointment iodine and mercury, 355. Solution iodide potass., 466.

Dysentery. Mixture nitric acid, 97. Starch jelly, 135. Starch and suet, 135. Angustura, 137. Clyster bistort, 177. Camphor water and laudanum, 192. Camphor water and nitric acid, 192. Cascarilla mixture, 209. Electuary catechu, 213. Infusion black purslane, 276. Mixture extract logwood, 320. Calomel and opium, 337. Ignatia, 349. Decoction ipecacuanha, 356. Mixture ipecacuanha, 357. Emulsion jalap, 360. Electuary kino, 364. Mixture rhatany, 365. Milk and suet, 367. Mixture cherrylaurel, 370. Syrup sweet gum bark, 376. Injection morphia, 398. Nux vomica, 408. Mixture nux vomica and aloes, 409. Oleaginous mixture, 412. Opium and acetate lead, 420. Opiate, 422. Plaster opium and camphor, 422. Opium and syrup poppies, 426. Pills of rhubarb and ipecacuanha, 491. Confection dog rose, 497. Syrup blackberries, 501. Compound powder sulphur, 562. Infusion slippery elm, 576. Compound pills sulphate zinc, 591.

Dysmenorrhea. Infusion southernwood, 151. Camphor mixture, 193. Compound pills ergot, 273. Clyster iodine, 353.

Dyspepsia. Wormwood, 83. Aloes pills, 108. Anise, 137. Extract chamomile, 139. Compound chamomile pills, 139. Orange-peel and rhubarb, Compound orange elixir, 159. Bismuth, 175. Calamus, 182. Cayenne pepper pills, 202. Infusion cinnamon, 234. Powder coriander, 250. Pill prepared metallic iron, 278. Mixture malate iron, 292. Nitrate iron, 292. Mixture soot, 301. Infusion gentian and rhubarb, 309. Mixture gentian and sulphuric acid, 310. Masterwort, 323. Infusion hops, 325. Mercury, chalk, and ipecacuanha, 327. Bolus ipecacuanha, 355. Ipecacuanha and centaury, 356. Rice jelly, 430. Solution hydrargyroiodide potass., 463. Pancreatin, 431. Pepsin, 434, 597. Sulphate potassium and rhubarb, 474. Rhubarb, 490. Soda and rhubarb, 544. Mixture carbonate sodium and quassia, 544. Compound turpentine plaster, 572. Oxide zinc and columbo, 589. Alkaline tincture of wormwood, 83. Lactic acid, 95. Alkaline wine of aloes, 112. Chamomile pills, 139. Subnitrate of bismuth, 175. Calamus, 182. Antacid mixture, 186. Aromatic powder, 206. Wine of tartrate of iron, 287. Magnesia and orange-peel, 379.

DYSPNŒA. Opium and castor, 421.

Dysuria. Benzoic acid and copaiba, 89. Tartar emetic and phosphate calcium, 143. Infusion fleabane, 274. Mixture lycopodium, 378. Pills nitrate potassium, 471. Crowfoot, 489. Mixture tobacco, 567.

EAR, AFFECTIONS OF. Pyroligneous acid, 88. Acoustic balsam, 164. Injection morphia, 308. Anti-otitic mixture, 423. Opium liniment, 422.

Ecchymosis. Juniper liniment, 363. Lotion nitrate potassium, 472.

ELEPHANTIASIS. Mudar, 189.

Engorgements, Visceral. Pills black oxide iron, 294. Electuary black oxide iron, 294. Calomel and dandelion, 335. Calomel and squill, 335. Sulphate mercury, 344. Compound powder rhubarb, 491. Tartrate sodium and rhubarb, 464. Mixture tartrate sodium, 464. Tartrate sodium whey, 464. Compound infusion dandelion, 569.

Epilepsy. Valerianate ammonium, 131. Nitrate silver, 146. Mugwort, 152. Belladonna, 170. Valerianate bismuth, 176. Oil box, 180. Electuary Peruvian bark, 330. Chloride copper, 259. Ammoniated copper, 259. Ammoniated copper and belladonna, 259. Compound pills sulphate copper, 260. Ammoniated iron, 279. Prussian blue, 288. Wine galium, 304. Masterwort, 223. Calomel and opium, 337. Indigo, 350. Opium and nitrate silver, 420. Phosphorated oil, 436. Mixture biniodide potassium, 469. Compound powder valerian, 577. Oxide zinc, 589. Compound pills oxide zinc, 590. Ethereal tincture chloride zinc, 587. Compound pills sulphate zinc, 591.

Epistaxis. Alum, 116. Sulphate copper styptic, 261. Injection sulphate iron, 298.

EXCORIATION. Hydrate aluminium, 115. Cold cream, 133, 217. Glycerite of bismuth, 176. Butter cacao ointment, 181. Glycerin, 312. Lycopodium, 378. Carbonate lead ointment, 447. Plaster carbonate lead, 448. Ointment tannate lead, 450. Rose oil, 498. Camphor soap, 513. Ointment oxide zinc, 590. Cerate carbonate zinc, 586.

EXANTHEMATA. Compound mercurial powder, 326. Sulphuret magnesium, 384. Balm, 392. Mixture Virginia snakeroot and allspice, 536. Compound infusion elm bark, 576.

Eye, Affections of. Atropia, 156. Camphor ointment, 195. Camphor collyrium, 195. Collyrium iodine, 352. Calabar bean, 437.

FACE, ERUPTIONS ON, BLOTCHES, etc. Wash sal ammoniac, 128. Almond paste, 131. Almond powder, 131. Compound almond lotion, 132. Milk roses, 132, 174. Goulard's lotion, 445. Cosmetic liniment, 134. Water anemone, 136. Wash of benzoin, 174. Emulsion benzoin, 174. Spermaceti liniment, 218. Sultana ointment, 218. Emulsion corrosive sublimate, 333. Cosmetic wash, 334. Lotion carbonate potassium, 460. Beef marrow soap, 513. Aromatic soap, 513. Cosmetic soap powder, 513. Essence of soap, 515. Lotion oxide of zinc, 590.

Fainting. Aromatic vinegar, 87. Aromatic carbonate of ammonium, 126. Succinate ammonium, 129.

Fever. Vinegar mixture, 85. Syrup vinegar, 86. Citric acid, 92. Effervescing powders, 92, 102. Tartaric acid, 101. Sweet spirit of nitre, 552. Acetate ammonium, 124. Citrate ammonium, 128. Nitrate ammonium, 129. Tartar emetic, 142. Mixture extract centaury, 215. Boneset, 275. Compound powder ammoniated iron, 280. Mixture avens, 312. Calomel and jalap, 334. Calomel and nitrate potassium, 335. Dover's powder, 354. Ipecacuanha and tragacanth, 355. Infusion malt, 384. Citrate potassium, 462. Nitrate potassium, 471. Nitrous powders, 471. Mixture nitrate potassium, 472. Mixture sulphate potassium, 473. Raspberry vinegar, 502. Infusion of sage, 508. Tamarinds, 567.

Fever, Hectic. Compound infusion boneset, 275. Gælis's powder, 405. Compound powder sulphate quinia, 485. Compound infusion sage, 508.

Fever, Intermittent. Pills arsenic and opium, 89. Lockstadt's pills, 134. Golden sulphuret antimony, 141. Tartar emetic and quinia, 143. Electuary orange-peel, 157. Bebeerina, 169. Camphor water and ether, 194. Cetrarin, 219. Preparations Peruvian bark, 228. Cinchonia, 233. Decoction coffee, 237. Dogwood, 251. Pills sulphate copper, 260. Sulphate copper and opium, 260. Persimmon, 268. Eucalyptus, 275. Compound powder Prussian blue, 288. Gelsemium, 307. Mixture of avens, 312. Horsechestnut, 323. Tulip-tree bark, 376. Magnolia, 384. Narcotina, 407. Phloridzin, 436. Phosphorated oil turpentine, 437. Piperina, 440. Mixture acetate potassium, 454. Arsenical solution, 88. Arseniate potassium, 454. Mixture citrate potassium and bark, 462. Oxalate potassium, 472. Quassia, 480. Oak bark, 481. Quinia and salts, 482. Salicin, 507. Willow bark, 507. Virginia snakeroot, 535. Common salt and lemon juice, 546. Arseniate sodium, 540. Solution chlorinated soda, 539.

Fever, Typhus. Sulphurous acid, 100. Carbonate ammonium, 126. Powder of oxide of gold, 162. Wild indigo, 167. Clyster camphor, 194. Liniment cantharides, 199. Tincture cayenne pepper, 203. Yeast mixture, 277. Musk mixture, 403. Turpentine mixture, 572. Laudanum and tartar emetic, 429. Egg and brandy mixture, 431. Egg and wine mixture, 431. Mixture Virginia snakeroot and allspice, 536. Wine Virginia snakeroot and vanilla, 536. Tincture Virginia snakeroot and balsam Peru, 536. Mustard whey, 537. Chlorinated soda, 539.

Fissures, Anus. Ointment acetate lead, 447.

FISTULÆ. Injections copaiba, 248. Injection corrosive sublimate, 334. Injection myrrh, 406. Injection iodide potass., 466. Injection iodine, 469. Compound lotion iodide potass., 469.

FLATULENCE. Ammoniated alcohol, 124. Tincture angelica, 136. Anise, 137. Chamomile pills, 139. Tincture assafetida and soot, 156. Assafetida plaster, 156. Elixir orange-peel, 158. Tincture benzoin, 174. Calamus, 182. Aromatic powder and confection, 206. Compound tincture cardamom, 206. Spirit caraway, 207. Preparations cloves, 208. Cinnamon, 234. Coriander, 250. Elixir de Garus, 254. Oil of dittany,

- 257. Infusion of fennel, 300. Oil of partridge-berry, 307. Pennyroyal, 321. Henbane and ipecacuanha, 347. Lavender, 371. Magnesia and camphor, 351. Peppermint, 393. Nutmeg, 404. Confection opium, 421. Water allspice, 439. Electuary black pepper, 439. Compound tincture sassafras, 520. Purgative pastilles, 522. Soda mint, 542. Mixture carbonate sodium and gentian, 544. Golden rod, 550. Compound turpentine plaster, 572. Ginger, 593.
- Fœtor Oris. Mixture nitric acid, 97. Alum, 116. Lozenges chloride of lime, 188. Charcoal lozenges, 205. Lozenges catechu, 213. Pastilles catechu, 213. Creasote, 252.
- FROST, EFFCTS OF. Muriatic acid lotion, 96. Sulphuric acid liniment, 100. Rust's ointment, 119. Oil elaterium, 270. Compound ointment henbane, 348. Embrocation petroleum, 435. Ointment tannic acid, 101.
- Fungous Flesh. Burnt alum, 116. Chloride antimony, 139. Lotion orpiment, 151. Verdigris and savine, 258. Verdigris ointment, 258.
- GANGLIONIC SYSTEM, DISEASES OF. Cataplasm of bryony, 179. Prussian blue, 288.
- Gangrene. Lotion of bromine, 178. Compound camphor pills, 192. Peruvian bark and arnica, 226. Cataplasm Peruvian bark, 231. Musk pills, 402. Anodyne ointment, 423. Cataplasm oak bark, 481.
- Gastralgia. Mixture aconite, 104. Subnitrate bismuth, 175. Syrup codeia, 237.
- Gastrodynia. Oxide silver, 148. Compound bismuth powder, 175. Compound tincture cinnamon, 235. Oil of ergot, 273. Mercurial mixture, 329.
- GLANDS, ENLARGED. Plaster ammoniac with mercury, 121. Bromide ammonium, 125. Cataplasm bryony, 179. Ointment chloride lime, 188. Animal charcoal, 205. Ointment of iodide of carbon, 206. Hemlock and dandelion, 244. Plaster foxglove, 267. Ointment iodide iron, 291. Compound galbanum plaster, 304. Compound mercurial liniment, 330. Ointment iodide mercury, 340. Red sulphuret mercury, 345. Liniment henbane, 348. Ethereal tincture iodine, 351. Mixture iodine and iodide potassium, 352. Ointment iodoform, 354. Sulphuret potassium, 474. Compound plaster sulphuret potassium, 477. Bin-iodide of quinia, 483. Burnt sponge, 553.
- GLEET. Tannic acid, 100. Tincture cantharides and guaiacum, 198. Cubebs and ergot, 255. Compound powder ergot, 273. Pills guaiacum and turpentine, 318. Injection chloride zinc, 586.
- GLOTTIS, SPASM OF. Cataplasm tobacco, 567.
- Goitre. Solution chloride calcium, 184. Animal charcoal, 203. Iodine ointment, 353. Cataplasm iodine, 353. Iodide potass., 465. Ointment iodide potass., 467. Liniment iodide potass., 467. Sulphuret potass., 474. Burnt sponge, 553.
- Gonorrhæa. Injection of hydrocyanic acid, 94. Pills of tannic acid, 100. Alumina, 115. Alum, 116. Nitrate of silver, 146. Assafetida and opium, 154. Oil box, 180. Pills chloride calcium, 185. Emulsion hemp, 196. Compound bolus catechu, 213. Electuary catechu, 213. Wine Peruvian bark and calamus, 232. Copaiba and its preparations, 247. Cubebs, 254. Injection ammoniated copper, 259. Injection sulphate copper, 261. Compound powder ammoniated iron, 280. Injection iodide iron, 291. Pills sulphate iron, 297. Tincture galls, 305. Oil guaiacum, 317. Mixture of Indian sarsaparilla, 323. Injection corrosive sublimate, 334. Calomel and catechu, 336. Saturated tincture iodine, 351. Injection opium, 424.

Sedative injection, 433. Oil parsley, 436. Injection of chloro-platinate of sodium, 444. Acetate lead mixture, 445. Injection sulphuret potass., 476. Injection caustic potassa, 452. Chlorate potassium, 462. Pills nitrate potassium and camphor, 471. Nitrated emulsion, 472. Starkey's soap, 415, 513. Oil sandalwood, 511. Turpentine and rhubarb, 571. Turpentine mixture, 572. Injection acetate zinc, 586. Fomentation sulphate zinc, 591. Injection sulphate zinc, 592. Sulpho-carbolate zinc, 592.

Gout. Aconite, 102. Ammoniacal liniment, 122. Carbonate ammonium, 126. Phosphate ammonium, 129. Ammonium succinate, 130. Golden sulphuret antimony, 141. Sulphuret calcium, 181. Camphorated ether, 194. Portland powder, 215. Pills pipsissewa, 221. Colchicum, 238. Wine hedge hyssop, 317. Pills guaiacum and sulphur, 318. Ammoniacal tincture guaiacum, 319. Magnesia and colchicum, 381. Confection opium, 421. Phosphorated oil, 436. Mixture caustic potassa, 452. Solution silicate potassium, 473. Warner's cordial, 494. Extract elder berries, 509. Pills soap and ox gall, 515. Conserve broom, 528. Compound tincture senna, 532. Liniment sulphuret carbon, 565. Turpentine mixture, 572. Veratria, 580. Wine white hellebore, 582.

Gravel. Mixture Prussian blue, 280. Carbonate potassium and ammonium, 463.

Gums, Affections of. Boracic acid, 89. Alumina, 115. Electuary alum, 117. Gargle alum, 115. Collutory catechu, 214. Collutory creasote, 253. Gargle sulphate zinc, 591.

Hair, Loss of, etc. Garlic, 107. Almond cream, 133. Macassar oil, 134.
Fixature, 135, 262, 413. Hair dye, 147. Compound ointment balsam
Peru, 165. Compound tincture cantharides, 198. Pomatum cantharides,
201. Shampoo liquid, 202. Pomatum Peruvian bark, 231. Lotion galls,
305. Ointment of lavender, 372. Bay rum, 404.

HAIR, TO REMOVE. Orpiment powder, 151. Various depilatories, 602.

Heart, Affections of. Syrup asparagus, 153. Bromine, 178. Foxglove and acetate lead, 266. Digitalin, 267. Mixture iodide potass., 466.

Hematemesis. Calomel and acetate of lead, 335. Pills acetate lead, 444.

Hemicrania. Pills of valerianate of quinia, 489. Compound powder valerian, 577. Electuary valerian, 578.

Hemiplegia. Pills poison oak, 574.

Hemoptysis. Gallic acid mixture, 93. Inhalation tannic acid, 101. Powder starch, 135. Carrageen mixture, 225. Electuary Peruvian bark and catechu, 230. Creasote mixture, 252, 253. Bolus foxglove, 264. Mixture tincture foxglove, 266. Bugle weed, 379. Sedative mixture, 426. Compound pills acetate lead, 444. Tolu mixture, 167. Mixture uva ursi, 577.

Hemorrhages. Gallic acid, 92. Sulphuric acid, 99. Alum, 116. Alum whey, 118. Bistort, 177. Alum and catechu, 213. Extract of Peruvian bark, 228. Sulphate copper, 260. Compound powder ergot, 273. Extract ergot, 273. Oil erigeron, 274. Chloride iron and acetate lead, 283. Tincture chloride iron, 284. Solution sulphate iron, 298. Compound powder galls, 304. Avens, 311. Compound powder kino, 363. Mixture rhatany, 365. Alum whey, 366. Matico, 390. Roasted opium, 418. Opium and acetate lead, 420. Compound pills acetate lead, 444. Acetate lead, 444. Mixture bistort, 177. Hæmostatic powder, 489. Powder sulphate sodium and opium, 548. Mixture uva ursi, 577. Eau de Pagliari, 596.

Hemorrhoids. Aloetic mixture, 112. Alum ointment, 119. Lime ointment, 186. Charcoal suppository, 205. Extract Peruvian bark, 228. Hemlock oil, 245. Suppository hemlock, 246. Saffron ointment, 254.

Oil elaterium, 270. Ointment galls, 306. Compound gall ointment, 305. Witch hazel, 371. Ointment mercury and belladonna, 350. Ointment red oxide mercury and tin, 343. Suppositories iodoform, 354. Ointment henbane, 348. Electuary jalap, 360. Ointment matico, 390. Injection morphia, 398. Anodyne ointment, 423. Ointment opium and tar, 423. Laudanum ointment, 423. Confection black pepper, 439. Ward's paste, 439. Pile ointment, 446. Lead ointment, 448. Mixture tartrate potassium, 477. Mixture bitartrate potassium, 456. Ointment figwort, 528. Electuary senna and sulphur, 532. Ointment tin, 553. Ointment stramonium, 556. Sulphur electuary, 562. Fomentation sulphate zinc, 591. Tannin, 100.

HEPATITIS. Mixture nitric acid, 97. Bath nitromuriatic acid, 98. Compound mercurial pill, 328. Chlorate potassium, 461. Dandelion, 569.

HERNIA. Clyster belladonna, 172. Infusion tobacco, 567.

Herpes. Carbolic acid, 90. Chlorine liniment, 223. Arseniate iron, 280. Ointment carburet iron, 283. Decoction soot, 301. Ointment black hellebore, 322. Liniment acetate mercury, 331. Compound calomel pill, 336. Calomel ointment, 337. Ointment red oxide mercury and lead, 343. Ointment sulphate mercury, 344. Red sulphuret mercury, 345. Ointment red sulphuret mercury, 345. Lotion sulphuret potassium, 475.

HICCOUGH. Ammoniated alcohol, 124. Assafetida, 153. Carminative mixture, 394.

Hooping-cough. Anisated ammonia, 124. Bromide ammonium, 125. Succinated ammonia, 129. Extract anemone, 136. Kermes mineral, 141. Antimonial wine and bittersweet, 175. Assafetida pills and mixture, 154. Assafetida and tolu, 155. Assafetida plaster, 156. Belladonna, 170. Fumigating powder, 173. Emulsion cantharides, 197. Tincture bark and cantharides, 201. Chestnut leaves, 210. Syrup Peruvian bark, 232. Cochineal and carbonate potass., 236. Syrup codeia, 237. Confection ipecacuanha, 356. Mixture ipecacuanha, 357. Compound syrup ipecacuanha, 357. Alkaline wine ipecacuanha, 358. Syrup sulphuret magnesium, 384. Myrrh and zinc, 405. Lettsom's elixir, 428. Mixture carbonate potassium, 460. Compound syrup squill, 524. Carbonate sodium and ipecacuanha, 544. Tincture artificial musk, 560. Liniment oil of amber, 561. Compound powder tobacco, 566. Mixture balsam tolu and copaiba, 167. Sulphate zinc, 590. Mixture sulphate zinc, 592. Oxide of zinc, Ammoniated alcohol, 124. Syrup of codeia, 237. Hemlock plaster, 245. Copaiba mixture, 248. Pills of henbane, 347. Mixture of henbane and antimony, 347. Powder ipecacuanha and carbonate of sodium, 355. Powder of musk, 402. Musk mixture, 403.

Hydrophobia. Extract hemp, 196. Tonquin powder, 402.

Hydrocephalus. Powder foxglove, 264. Calomel and foxglove, 334. Ointment iodide potass. and mercury, 467.

Hydrothorax. Tincture colchicum and foxglove, 241. Colchicum and elaterium, 241. Mixture colocynth, 243. Pills foxglove, 265. Mixture elaterium, 270. Gamboge mixture, 306. Extract lettuce, 368. Mixture tobacco, 567.

Hypochondria. Acetic ether, 105. Aloes, 110. Assafetida, 153. Mixture lettuce and dandelion, 368.

Hypopion. Pills seneka, 529.

Hysteria. Mixture acetic ether, 105. Whytt's pills, 110. Carbonate ammonium, 126. Succinate ammonium, 129. Valerianate ammonium, 131, 597. Mixture chamomile, 139. Infusion southernwood, 151. Assafetida and iron, 154. Assafetida mixture, 154. Alkaline tincture assafetida,

155. Tincture assafetida and soot, 156. Assafetida and castor, 156. Belladonna and camphor, 171. Monobromated camphor, 195. Bolus castor, 211. Castor pills, 211. Skunk cabbage, 268. Soot pills, 301. Compound galbanum pills, 303. Mixture lactucarium, 368. Anti-hysteric water, 393. Musk, 402. Pills opium and musk, 420. Calabar bean, 437. Mixture rue and squill, 502. Liniment oil of amber, 561. Sumbul, 565. Compound powder valerian, 577. Vanilla, 580. Valerianate zinc, 592.

ILEUS. Hemlock oil, 245.

IMPETIGO. Lotion hydrocyanic acid, 94. Glycerin, 312. Compound powder sulphur, 562. Powder iodide sulphur, 565. Ointment oxide zinc and opium, 590.

IRITIS. Turpentine mixture, 572.

ISCHURIA. Assafetida and opium, 154.

Issues. Ointment of cantharides, 200. Elemi plaster, 271.

ITCH. Carbolic acid lotion, 91. Sulphuric acid ointment, 100. Lime water and sulphur, 186. Lime ointment, 186. Chlorine ointment, 223. Lotion corrosive sublimate, 333. Ointment red oxide mercury and sulphur, 343. Tineture sulphuret potass., 475. Compound lotion sulphuret potass., 476. Ointment carbonate potass., 461. Soap and sulphur, 516. Decoction stavesacre, 554. Compound powder sulphur, 562. Sulphur ointment, 563. Compound sulphur ointment, 564. Ointment white helleborre, 583. Sulphuret sodium, 549.

Jaundice. Terebinthinated ether, 106. Barberry, 174. Compound wine centaury, 215. Acetate of potassium, 453. Senna and guaiacum, 531.

Joints, Affections of. Pipsissewa beer, 221. Compound decoction guaiacum, 317. Pills guaiacum and antimony, 318. Ointment calomel and squill, 337. Oil laurel, 370.

KIDNEYS, AFFECTIONS OF. Gallic acid mixture, 93. Emulsion manna, 387. Carbonate sodium, 544. Ointment turpentine, 572. Uva ursi, 576.

Labor. Contrayerva mixture, 247. Ergot and its preparations, 273. Decection cotton root, 315. Compound powder borax, 542.

LARYNGITIS. Creasote pills, 252. Liniment croton oil, 417. Plaster croton oil, 417.

Leucorrhea. Injection gallic acid, 93. Tannic acid, 100. Whytt's pills, 110. Alum, 116. Electuary catechu, 213. Peruvian bark and isinglass, 227. Wine Peruvian bark and iron, 232. Cubebs and ergot, 255. Compound powder ergot, 273. Infusion black purslane, 276. Compound pills carbonate iron, 281. Lozenges iodide iron, 289. Bath iodide iron, 291. Ointment iodide iron, 291. Black oxide iron, 294. Electuary black oxide iron, 294. Sulphate iron, 297. Syrup sulphate iron, 298. Solution tartrate iron and potass., 287. Injection, 302. Tincture galls, 305. Avens, 311. Compound powder guaiacum, 304. Calomel and catechu, 336. Saturated tincture iodine, 351. Injection rhatany, 365. Injection subacetate lead, 446. Chlorate potassium, 462. Iodide potass., 466. Decoction oak bark, 481. Pills turpentine and guaiacum, 571.

Lepra. Pills arsenic and opium, 89. Iodide arsenic, 150. Chloride arsenic, 150. Donovan's solution, 151. Barytic liniment, 169. Mudar, 189. Chlorine oil, 223. Mixture tincture colocynth, 244. Carburet iron, 283. Ethereal solution bibromide mercury, 332. Ointment naphthalin, 407.

LICHEN. Carburet iron, 253. Ointment glycerin, 312. Ointment calomel and camphor, 337. Ointment cyanide mercury, 338.

LIPS, EXCORIATION OF. Spermaceti lip salve, 218.

LIVER, AFFECTIONS OF. Lotion hydrocyanic acid, 94. Muriatic acid pediluvium, 96. Terebinthinated ether, 106. Ointment tartar emetic, 144. Belladonna, 170. Blue pill and jalap, 328. Blue pill and quinia, 328. Compound mercurial pill, 328. Compound cathartic pills, 273. Calomel and jalap, 336. Tartrate of potassium and rhubarb, 477. Mixture tartrate potassium, 477.

Lumbago. Camphor ointment, 195. Spirit turpentine mixture, 414.

Lungs, Affections of. Syrup chamomile, 139. Tartar emetic, 142. Tartar emetic and opium, 143. Lotion tartar emetic, 144. Ointment tartar emetic, 144. Syrup antimonial wine, 145. Fig coffee, 299. Syrup asparagus, 153. Compound tincture benzoin, 144. Hemlock and ipecacuanha, 244. Compound pills henbane, 347. Ipecacuanha and antimony, 355. Myrrh and ipecacuanha, 405. Naphthalin, 407. Tar water, 442. Solution cyanide potass., 462. Decoction and syrup seneka, 529. Storax, 559. Balsam tolu, 165. Coltsfoot, 575.

Mammæ, Affections of. Ointment carbonate ammonium, 127. Fomentation sal ammoniac, 127. Cataplasm sal ammoniac, 128. Lime water and oil, 186. Charcoal, 203. Ointment turpentine, 572. Ointment oxide zinc and lycopodium, 590.

Mania. Compound pills columbo, 190. Pills foxglove, 265.

Marasmus. Jelly orange leaves, 159.

Measles. Infusion safflower, 207. Spermaceti mixture, 217.

Menorrhagia. Pills gallic acid, 93. Pills tannic acid and opium, 100. Alum, 116. Compound bolus catechu, 213. Peruvian bark and isinglass, 227. Ergot, 272-3. Infusion black purslane, 276. Pills ammoniated iron, 280. Injection sulphate iron, 298. Aromatic alum whey, 119.

MERCURIAL DISEASE. Mixture sulphuret potass., 476. Sulphur mixture, 563.

MILK, To INCREASE SECRETION OF. Compound powder fennel, 300.

MILK, TO RETARD SECRETION OF. Bolus acetate potassium, 453. Pills acetate sodium, 539.

Mouth, Affections of. Vinegar gargle, 86. Muriatic acid gargle, 96. Collutory nitric acid, 97. Alum, 116. Chlorine gargle, 188, 222. Collutory balsam Peru, 165. Collutory carbonate potassium, 459. Boracic acid wash, 90. Sal ammoniac, 127. Phosphate of calcium, 187. Decoction of New Jersey tea, 215. Goldthread, 250. Creasote mixture, 252. Myrrh, 405.

Mollities Ossium. Phosphate calcium, 187.

Muscles, Rigidity of. Ointment iodine and oil tobacco, 353.

NAUSEA. Clove cataplasm, 209. Clove bag, 309. Pennyroyal, 321. Compound infusion mint, 394. Spice plaster, 594. Mixture carbonate potassium, 460.

NEPHRITIS. Compound decoction oatmeal, 163. Infusion carrot fruit, 207. Emulsion bicarbonate sodium, 540. Compound ointment of turpentine, 572. Compound powder of uva ursi, 576.

NEURALGIA. Pills of arsenic and opium, 89. Aconitia, 104. Aconite plaster and lotion, 103. Valerianate ammonium, 131, 597. Plaster bella-

donna, 173. Oil benzoin, 174. Emulsion cantharides, 197. Chloral hydrate, 222. Bolus castor, 211. Liniment chloroform, 224. Codeia, 237. Tincture colchicum, 239. Colchicum and camphor, 241. Creasote pills, 252. Carbonate iron, 281. Gelsemium, 307. Mixture tincture guaiacum, 319. Calomel and opium, 337. Compound pills henbane, 347. Lotion cherry-laurel, 371. Sulphate morphia, 401. Turpentine mixture, 414. Opiated turpentine liniment, 415. Carbonate lead ointment, 447. Lotion chloride lead, 448. Lotion cyanide potassium, 463. Ointment cyanide potass., 463. Solution chlorate potassium, 461. Tannate of quinia, 488. Extract cevadilla, 503. Extract tobacco, 566. Ointment tobacco, 567. Veratria, 580. Valerianate zinc, 592.

Nervous Disorders. Valerianate ammonium, 131, 597. Valerianate bismuth, 176. Camphor and musk, 192. Camphor water and Hoffmann's anodyne, 192. Monobromated camphor, 195. Peruvian bark and valerian, 231. Pills ammoniated iron, 280. Infusion hops, 325. Compound powder henbane, 347. Musk, 402. Wild cherry bark, 478. Compound pills sulphate quinia, 486. Oxide zinc, 589. Cyanide zinc, 587. Ferrocyanide zinc, 588. Chloride of zinc, 586. Valerianate zinc, 593.

NIPPLES, EXCORIATED. Oil elaterium, 270. Glycerin, 312. Mammillary lotion, 164. Opium and lime water, 424. Borax, 542.

Nodes, Venereal. Mercurial plaster, 330

Nux Vomica, Poisoning by. Sulphuric ether and turpentine, 106.

NYCTALOPIA. Calomel, antimony, and henbane, 334.

**Edema.** Fomentation arnica, 149.

ONYCHIA. Corrosive sublimate and zinc, 332. Red oxide mercury, 342.

OPHTHALMIA. Alum collyrium, 117. Alum curd, 117. Acetate ammonium, 124. Antimonial wine, 144. Nitrate silver, 146. Ointment nitrate silver, 147. Chloride gold, 160. Chloride barium, 168. Glycerite of bismuth, 176. Sulphate cadmium, 181. Camphor collyrium, 195. Solution of conia, 246. Verdigris and alum, 258. Verdigris ointment, 258. Collyrium sulphate copper, 261. Mucilage quince-seeds, 262. Eyebright, 277. Ointment Prussian blue, 288. Ointments red and yellow oxide of mercury, 342, 343. Ointment red oxide of mercury and zinc, 343. Yellow root, 346. Wine opium, 426. Collyrium acetate lead, 445. Collyrium subacetate lead, 445. Ointment subacetate lead, 447. Collyrium biniodide potass., 469. Compound lotion iodide potass., 469. Collyrium caustic potass., 452. Sulphate of quinia and sodium, 485. Ointment oxide zinc, 590. Ointment oxide of zinc and calomel, 590. Mixture ferrocyanide zinc, 588. Collyrium sulphate zinc, 591.

OPHTHALMIA, GONORRHEAL. Mercurial lotion, 327.

OPIUM, Poisoning by. Vinegar coffee, 237.

ORCHITIS. Mixture chloride barium, 168.

OTORRHEA. Sulphate of cadmium, 181.

Ozæna. Angelica, 136. Chloride lime, 188. Mercurial gargle, 327. Compound powder sulphate mercury, 344.

Palpitation. Syrup asparagus, 153. Powder foxglove, 264. Wild cherry bark, 478.

Pannus. Compound powder seneka, 529. Pills seneka, 529.

Paralysis. Pyro-oleous carbonate ammon., 127. Infusion horseradish, 148. Extract arnica, 149. Assafetida, 153. Brucia, 178. Nitrate camphor, 195. Cantharides and Cayenne pepper, 197. Oil of euphorbium,

277. Ignatia, 350. Nux vomica, 408. Tincture nux vomica, 408. Pills opium and nitrate silver, 420. Phosphorated ether, 437. Lotion mustard, 538. Bath common salt and arnica, 546. Strychnia, 557. Iodate strychnia, 558.

Peripheumonia. Golden sulphuret antimony, 141. Powder foxglove, 264. Pills calomel and antimony, 336.

Periostitis. Compound mercurial ointment, 329.

Phimosis. Solution sulphate copper, 261.

Phthisis. Mixture hydrocyanic acid, 93. Alum and benzoic acid, 117. Mixture chloride barium, 168. Belladonna, 170. Hypophosphites, 185. Iodide calcium, 185. Iceland moss, 218. Carrageen, 224. Electuary Peruvian bark and sulphur, 189. Creasote, 252. Pills sulphate copper, 260. Foxglove, 264. Compound pills of henbane, 347. Ipecacuanha and nitrate potassium, 355. Artificial goat's milk, 367. Locatelli's balsam, 165. Myrrh and Canada balsam, 405. Compound extract myrrh, 406. Griffith's mixture, 406. Acetic turpentine liniment, 415. Acetate lead, 444. Mixture iodide potassium, 406. Chlorate potassium, 461. Acetate of morphia, 398. Wine of tar, 442. Wild cherry bark, 478.

PLEURITIS. Infusion of pleurisy root, 152. Nitrate of camphor, 195. Mixture foxglove, 266. Cataplasm long pepper, 440.

PNEUMONIA. Benzoic acid and ipecacuanha, 89. Mixture foxglove, 266. Gelsemium, 307. Powder ipecacuanha and chloride ammonium, 355. Powder ipecacuanha and antimony, 355. Sumbul, 566.

Porrigo. Ointment nitric acid, 97. Sulphurous acid, 100. Lotion corrosive sublimate and copper, 332. Ointment calomel and acetate copper, 337. Ointment nitrate mercury and lead, 340. Ointment sulphate mercury, 344. Ointment oxide manganese, 386. Banyer's ointment, 449. Compound lotion sulphuret potass., 476. Powder iodide sulphur, 565.

Prurigo. Fomentation opium, 424. Ointment carbonate sodium, 445. Powder iodide sulphur, 565.

PRURITUS. Lotion carbonate potassium, 460. Lotion borax, 543. Lotion carbonate sodium, 545. Lotion chlorate sodium, 545.

Psoriasis. Arsenic and pepper pills, 89. Ointment nitric acid, 97. Ointment subnitrate bismuth, 176. Compound powder anthracokali, 205. Decoction soot, 301. Naphthalin ointment, 407. Ointment poke, 438. Tar ointment, 443. Compound lotion sulphuret potassium, 476. Lotion tobacco, 567. Ointment tobacco, 567.

PSOROPHTHALMIA. Camphor ointment, 195. Ointment sulphate copper, 261. Ointment red oxide mercury, 342. Ointment red oxide mercury and cinnabar, 343. Ointment common salt, 546. Compound sulphur ointment, 564.

Pyrosis. Alkaline wine aloes, 112. Oxide of silver, 148. Charcoal and quassia, 204. Compound pills kino, 364. Mixture carbonate potassium, 460.

RACHITIS. Phosphate calcium, 187. Black oxide iron, 294. Phosphate magnesium, 382. Mixture cod-liver oil, 410. Acorn coffee, 481. Compound powder madder, 501.

Rectum, Diseases of. Starch mucilage, 135. Chloroform ointment, 224. Suppository hemlock, 246. Injection copaiba, 248.

RHEUMATISM. Aconite, 102. Aconitia, 104. Aletris, 107. Ammoniacal liniment, 121. Phosphate ammonium, 129. Golden sulphuret antimony, 140. Tartar emetic and opium, 143. Plaster tartar emetic, 144. Anti-

monial powder, 140. Burdock, 369. Extract arnica, 149. Ointment chloride gold, 160. Sulphuret calcium, 187. Lotion of camphor, 194. Nitrate camphor, 195. Compound tineture cantharides, 198. Plaster castor, 212. Black snakeroot, 225. Colchicum, 238. Tincture colchicum flowers, 239. Creasote pills, 252. Compound decoction bittersweet, 269. Compound galbanum plaster, 304. Hedge hyssop, 316. Decoction guaiacum, 317. Oil guaiacum, 317. Compound powder guaiacum, 317. Guaiacum mixture, 318. Guaiacum and bittersweet, 318. Tincture guaiacum, 318. Plummer's pills, 336. Black sulphuret mercury, 344. Nervine balsam, 499. Magnesia and colchicum, 381. Tincture magnolia, 384. Oil of horsemint, 396. Turpentine mixture, 414. Cajeput liniment, 410. Opium and antimony, 419. Opium plaster, 422. Fomentation wine opium, 424. Opium liniment, 422. Plaster petroleum, 435. Phosphorated oil, 436. Plaster black pepper, 440. Pitch plaster, 441. Plaster subacetate lead, 447. Solution chlorate potassium, 462. Plaster pellitory, 479. Tincture cevadilla, 503. Camphorated essence soap, 515. Zittman's decoction, 517. Conserve broom, 528. Pills stramonium seed, 555. Lotion stramonium, 556. Bisulphide carbon, 564. Turpentine liniment, 571. Poison oak, 573. Veratria, 580. Wine white hellebore, 582. Green hellebore, 583. Hydrosulphuretted bath, 95. Liniment of croton oil, 417. Tincture of poke, 438. Prickley ash, 585.

RINGWORM. Ointment cocculus indicus, 236. Vinegar borax, 543.

Salivation. Sulphuretted hydrogen, 94. Muriatic acid gargle, 96. Tannic acid, 100. Gargle sulphate copper, 261. Pills iodine, 351. Sulphuret potass. and cream of tartar, 475. Gargle borax, 543.

Scarlatina. Carbolic acid mixture, 91. Mixture hyponitrous ether, 94. Acetate ammonium, 124. Plaster tartar emetic, 144. Belladonna, 170. Cayenne pepper gargle, 202. Chlorine mixture, 223. Myrrh gargle, 406. Mixture tartrate potassium, 477. Mixture cream of tartar, 455.

SCIATICA. Liniment succinated ammonia, 130. Plaster sulphuret antimony, 142. Oil turpentine and honey, 413. Oil turpentine mixture, 414.

Schirrhus. Bolus sal ammoniae, 127. Extract marigold, 189. Charcoal, 203. Hemlock, 244. Mercury and antimony, 326. Ointment mercury and belladonna, 330.

Scrofula. Iodated albumen, 107. Bromine, 178. Iodide ammonium, 128. Compound wine of horseradish, 149. Chloride barium, 168. Iodide barium, 168. Baryta, 169. Compound cataplasm bryony, 179. Solution chloride calcium, 184. Chloride lime, 188. Animal charcoal, 203. Anthracokali, 205. Hemlock, 244. Hydriodic acid, 94. Mixture of sulphuret of antimony, 142. Pipsissewa beer, 221. Carrageen, 224. Soot, 301. Burnt sponge, 553. Koechlin's drops, 259. Mixture bittersweet, 269. Compound powder metallic iron, 278. Ammoniated iron, 279. Bromide iron, 280. Compound pills carbonate iron, 282. Lozenges iodide iron, 289. Ammoniated tincture gentian, 310. Frost-weed, 321. Ointment mercury and belladonna, 330. Mercury and antimony, 326. Iodide mercury, 339. Ointment iodide mercury, 340. Biniodide mercury, 339. Black sulphuret mercury, 344. Iodine bath, 352. Mixture iodine, 352. Cod-liver oil, 410. Iodide lead, 448. Ointment iodide lead, 448. Solution bromide potassium, 458. Ointment bromide potassium, 458. Ointment iodide potassium, 467. Mixture iodide potassium, 466. Bath sulphuret potassium, 476. Mixture sulphuret potassium, 476. Conserve acetate potassium, 453. Acorn coffee, 481. Hydriodate quinia, 483. Decoction madder, 501. Jauperand's decoction, 517. Compound infusion sassafras, 520. Compound ointment common salt, 546. Bath common salt and gelatin, 546. Carbonate sodium and chamomile, 544. Sulphur electuary, 562.

Scurvy. Wood sorrel, 85. Clauder's elixir, 112. Alumina, 115. Mixture and wine horseradish, 149. Brooklime, 169. Scurvy grass, 236. Collutory lemon juice, 373. Mixture buckbean, 395. Chlorate potassium, 461.

SEA SICKNESS. Plaster carbonate ammonium, 127.

SLEEPLESSNESS. Bromide calcium, 183. Camphor water and Hoffmann's anodyne, 192. Chloral hydrate, 222. Tincture hops, 325. Lupulin, 377. Mixture lactucarium, 369. Acetate morphia, 398. Preparations opium, 417. Syrup poppies, 432. Jamaica dogwood, 251.

SNAKE BITES. Ammonia and ether, 122. Eau de luce, 122.

Sore Throat, Venereal. Mercurial lotion, 327.

Spasmodic Diseases. Sulphuric acid and ether, 99. Fuller's pills, 110. Succinate ammonium, 129. Nitrate silver, 146. Electuary orange leaves, 158. Camphor, 191. Ethereal tincture camphor, 193. Extract of hemp, 196. Castor, 211. Chloroform, 223. Mayweed, 252. Pills foxglove, 265. Tincture galbanum, 303. Calomel, antimony, and henbane, 334. Anti-hysteric water, 393. Musk, 402. Dippel's animal oil, 409. Opium and its preparations, 417. Succinated tincture opium, 428. Clyster opium and valerian, 424. Cyanide potass., 462. Mixture nitrate potass., 472. Confection rue, 502. Extract stramonium, 555. Purified oil amber, 560. Artificial musk, 587. Eau de Luce, 561. Compound powder of tobacco, 566. Balsam amber, 561. Infusion linden, 573. Valerian, 577. Oxide zinc, 589. Cyanide zinc, 587.

Spermatorrhea. Compound powder cascarilla, 209. Nux vomica, 408. Mixture acetate lead, 445.

SPINA VENTOSA. Bath sulphuret potass., 576.

SPLEEN, DISEASES OF. Celandine, 219. Solution hydrargyro-iodide potass., 470. Tartrate of magnesium, 384.

SPRAINS. Lotion sal-ammoniae, 127. Compound spirit of nutmeg, 405. Liniment opium, 422. Aromatic vinegar, 87.

Stomach, Affections of. Oxide of silver, 148. Subnitrate of bismuth, 175. Cayenne pepper pills, 202. Chlorine mixture, 223. Tincture chloride iron, 284. Mixture tincture guaiacum, 319. Aromatic plaster, 524. Compound powder sulphate quinia, 486. Mixture sulphuret carbon, 564.

STRANGURY. Mixture lycopodium, 378. Clyster laudanum, 424. Infusion parsley, 436. Mixture nitrate potassium, 472.

Sweating, Profuse. Mixture nitric acid, 97. Agaric, 177. Acetate lead, 444. Mixture acetate lead, 445.

Syphilis. Mixture nitric acid, 97. Iodide ammonium, 129. Sulphuretted sulphide ammonium, 130. Chloride silver, 146. Cyanide silver, 146. Orpiment, 151. Preparations gold, 159–163. Compound powder anthracokali, 205. Hemlock and calomel, 244. Creasote lotion, 253. Anthracokali, 205. Bittersweet, 268. Liniment of laudanum and lime water, 422. Sarsaparilla, 516. Syrup of Laffecteur, 519. Koechlin's drops, 259. Mercury and its preparations, 326–346. Opiated acetate mercury, 331. Iodoform, 354. Bichloride platinum, 443. Chloroplatinate sodium, 444. Mixture biniodide potass., 469. Compound tincture carbonate potassium, 460. Chloride quinia and mercury, 484. Zittman's decoction, 517. Acetate of strychnia, 558.

TAPEWORM. Chloride barium, 168. Kousso, 177. Male fern, 299. Powder of hedge hyssop, 317. Compound powder gamboge, 306. Decoction

pomegranate root, 316. Anthelmintic emulsion, 414. Pumpkin seed, 434. Mixture petroleum, 435. Kamala, 500. Compound powder cevadilla, 503. Oxide tin, 553.

TEETH, DISEASES OF. Electuary of alumina, 115. Alum and ether, 117. Vicat's mixture, 124. Chloride lime, 188. Cantharides plaster, 200. Tincture of Cayenne pepper, 203. Oil cloves, 208. Plaster castor, 212. Chlorine oil, 223. Hemlock collutory, 245. Solution creasote, 252. Compound oil guaiacum, 317. Mixture guaiacum, 318. Mastich paste, 389. Turpentine lotion, 413. Anti-odontalgic mass, 389-421. Balsam and drops for toothache, 422. Odontalgic drops, 421. Pellitory and preparations, 479. Willow bark, 507.

Testicle, Engorged. Compound mercurial ointment, 329. Ointment iodide potassium, 467.

Tetanus. Extract and mixture of hemp, 196. Chloral hydrate, 222. Hypodermic injection conia, 246. Calabar bean, 438. Mixture Dippel's animal oil, 409. Opium and cinnamon water, 426. Solution caustic potassa, 452.

Throat, Affections of. Nitrate silver, 146. Cayenne pepper gargle, 202. Gargle Peruvian bark, 232. Liniment verdigris, 259. Gargle ammoniated copper, 260. Gargle figs, 299. Gargle galls, 305. Gargle pomegranate rind, 316. Chloride manganese, 385. Gargle myrrh, 406. Gargle nitrate potassium, 472. Gargle sulphate quinia, 483. Gargle sage, 509. Vinegar sage, 509. Vinegar elder flowers, 509. Opodeldoc, 514. Sulphate of zinc, 590. Vinegar gargle, 86. Alum gargle, 118. Cinnamon gargle, 235. Gargle of persimmon, 268. Gargle of cyanide of mercury, 338.

Tinea Capitis. Lotion hydrocyanic acid, 94. Ammoniacal liniment, 121. Sulphuret antimony, 140. Ointment azedarach, 164. Liniment chloride lime, 189. Picrotoxin, 236. Compound soot ointment, 302. Ointment calomel and alum, 337. Ointment poke, 438. Ointment black pepper, 439. Tar ointment, 443. Ointment black pitch, 443. Ointment bromide potass., 458. Compound lotion sulphuret potass., 474. Ointment sulphuret potass., 479. Compound ointment common salt, 546. Lotion sulphuret sodium, 550. Ointment carbonate sodium, 545. Compound sulphur ointment, 564. Ointment sulphur and zinc, 564. Sulphuret carbon, 564.

Tonsils, Inflamed, etc. Gargle alum, 118. Glycerite iodide ammonium, 129. Gargle iodine, 353. Ointment iodine, 353. Iodide of zinc, 588.

Tenesmus. Clyster, laudanum, 424. Pills rhubarb and ipecacuanha, 491. Trismus. Musk mixture, 403.

Tumors and Swellings. Lotion of sulphuric ether, 106. Ammoniae plaster, 121. Ointment iodide ammonium, 129. Ointment chlorinated lime, 188. Plaster of ammoniae and mercury, 121. Gum plaster, 121. Ammoniaeal liniment and tartar emetic, 144. Liniment of cantharides and camphor, 199. Hemlock plaster, 245. Hop cataplasm, 326. Camphorated mercurial ointment, 329. Compound mercurial liniment, 330. Pills of calomel and antimony, 336. Decoction of poppy heads, 432. Cataplasm of subacetate of lead, 446. Ointment of iodide potassium and morphia, 467. Opodeldoc, 514. Soap liniment, 514. Ointment of squill, 527. Stramonium ointment, 556. Ointment of iodide of zinc, 588.

ULCERS. Cataplasm, pyroligneous acid, 88. Nitric acid, 97. Sulphate aluminum, 115. Burnt alum, 116. Anglo-Saxon ointment, 119. Ointment oxide silver, 148. Ointment nitrate silver, 147. Balsam Peru, 165. Bromine lotion, 178. Chloride lime, 188. Ointment charcoal, 205. Charcoal cataplasm, 205. Chlorine liniment, 223. Peruvian bark and camphor,

227. Cerate and cataplasm Peruvian bark, 231. Hemlock infusion and ointment, 245. Verdigris lotion, 258. Metz's balsam, 258. Egyptian ointment, 258. Ammoniated copper, 259. Ointment ammoniated copper, 260. Ointment sulphate copper, 261. Ointment foxglove, 266. Yeast poultice, 277. Ointment soot, 302. Ointment galls, 306. Compound oil guaiacum, 317. Ointment red oxide mercury, 342. Lotion henbane, 348. Iodoform, 354. Plaster melilot, 392. Infusion cherry-laurel, 370. Ceromel, 391. Mezereon ointment, 396. Ointment monesia, 397. Rob of mulberries, 397. Tincture balsam Peru, 165. Ointment balsam Peru, 165. Plaster balsam Peru, 165. Cod-liver oil, 410. Ointment bichloride platinum, 444. Lotion acetate lead, 446. Goulard's lotion, 445. Ointment subacetate lead, 447. Compound powder carbonate lead, 447. Ointment carbonate lead, 447. Solution iodide potass., 466. Ointment biniodide potass., 469. Saviard's lotion, 452. Solution chlorate potassium, 461. Resin cerate, 489. Wine roses, 499. Ointment willow leaves, 508. Balsam sulphur, 563. Turpentine liniment, 571. Turpentine plaster, 572. Cataplasm slippery elm, 576. Lotion chloride zinc, 587. Plaster carbonate zinc, 586. Acetic acid cataplasm, 87. Pyroligneous acid cataplasm, 88. Sulphuric acid, 99. Ointment of cyanide of silver, 146. Calamine cerate, 182. Carrot cataplasm, 207. Copaiba, 247. Creasote lotion, 253. Ointment of elemi, 271. Oil of soot, 302. Lotion of corrosive sublimate, 333. Yellow wash, 342. Lotion of biniodide of mercury, 339. Cerate of red sulphuret of mercury, 345. Mixture of iodine, 352. Arquebusade water, 394. Tincture of opoponax, 429. Chlorinated soda, 539. Ointment tobacco, 567.

ULCERS, VENEREAL. Mercurial cerate and liniment, 330. Lotion corrosive sublimate, 333. Yellow wash, 342. Ointment cyanide mercury, 338. Ointment red iodide mercury, 339. Black wash, 341. Compound tincture opoponax, 429. Ointment biniodide potass. and opium, 469.

URETHRITIS. Injection kino, 264. Injection subacetate lead and lime water, 446. Pills nitrate potassium, 471. Chloride of zinc, 586. Detersive injection, 112. Ergot injection, 273. Opium and sulphate of zinc, 420.

URINARY ORGANS, AFFECTIONS OF. Benzoate ammonium, 125. Pipsissewa, 220. Buchu, 179. Clyster laudanum, 424. Pareira brava, 433. Embrocation petroleum, 435. Extract dandelion, 569. Turpentine pills, 571. Pills turpentine and magnesia, 571. Compound powder uva ursi, 576.

URINE, INCONTINENCE OF. Chloride gold and sodium, 160. Compound pills nux vomica, 409. Powder iodide sulphur, 565.

URINE, RETENTION OF. Sal ammoniac, 127.

Uterus, Diseases of. Alum, 116-117. Animal charcoal, 263. Chlorine injection, 222. Syrup ergot, 272. Injection rhatany, 365. Ointment acetate morphia, 399. Mixture wine opium, 426. Belladonna ointment, 173.

UVULA, RELAXATION OF. Gargle galls, 305. Gargle oak bark, 481. Gargle sage, 509.

Vagina, Diseases of. Injection copaiba, 245. Lotion of morphia and borax, 402. Injection opium, 424. Suppository chloride zinc, 587.

VERMIN, TO DESTROY. Ointment cocculus indicus, 236. Ointment fennel, 301. Ointment cevadilla, 503. Capuchin powder, 503. Vinegar stavesacre, 554. Ointment stavesacre, 554. Compound mercurial ointment, 329.

VERTIGO. Bolus castor, 211.

Vomiting, to Check. Mixture catechu, 214. Compound pills columbo, 190.

Oxalate cerium, 216. Mixture columbo, 190. Creasote mixture, 252. Clyster laudanum, 424. Aromatic plaster, 441. Anti-emetic mixture, 541. Carbonate potassium, 458.

Vomiting, Spasmodic. Mercurial mixture, 329. Mixture ipecacuanha, 357. Compound pills of columbo, 190.

Warts. Chromic acid, 92. Escharotic powder alum, 116. Ointment chloride antimony, 139. Verdigris ointment, 258. Verdigris plaster, 258. Corrosive sublimate and copper, 333. Savine and verdigris, 504. Savine ointment, 505.

Weakness of Back. Lotion Peruvian bark, 232. Iron plaster, 283. Plaster red oxide iron, 294.

WHITE SWELLING. Ointment nitrate silver, 146. Chloride calcium, 184.

Worms. Tincture and wine wormwood, 83. Ointment aloes, 114. Suppository aloes, 114. Assafetida and iron, 154. Azedarach, 164. Wormseed, 220. Cochineal and common salt, 236. Mixture copaiba, 248. Male fern, 299. Cabbage-tree bark, 311. Mercurial mucilage, 327. Calomel and gamboge, 335. Calomel and jalap, 334. Black sulphuret mercury, 344. Cowhage, 403. Dippel's animal oil, 409. Mixture olive oil, 412. Anthelmintic emulsion, 413. Castor oil and ether, 413. Emulsion opoponax, 429. Savine and pinkroot, 504. Anthelmintic emulsion, 553. Pinkroot, 551. Powder tin, 553. Sulphuret tin, 554. Tansy, 568. Turpentine and jalap, 571. Tincture and wine of wormwood, 83. Powder of sulphate of iron, 297. Decoction of pomegranate, 316. Calomel and pinkroot, 335. Vermifuge sugar, 505. Santonica, 511. Santonin, 512.

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### INDEX

OF

#### PHARMACEUTICAL AND BOTANICAL NAMES.

BIES canadensis, 442 excelsa, 441 picea, 441 Absinthium, 83 Acacia, 84 arabica, 84 catechu, 212 senegal, 84 vera, 84 Acetosella, 85 Acetum, 85 Achillea, 86 millefolium, 86 Acidum aceticum, 86 empyreumaticum, 88 arseniosum, 88 benzoicum, 89 boracicum, 89 carbolicum, 90 impurum, 91 carbonicum, 92 chromicum, 92 citricum, 92 gallicum, 92 hydrocyanicum, 93 hydriodicum, 94 hydrosulphuricum, 94 lacticum, 95 muriaticum, 96 nitricum, 97 nitro-muriaticum, 97 oxalicum, 98 phosphoricum, 98 succinicum, 99 sulphuricum, 99 sulphurosum, 100 tannicum, 100 tartaricum, 101 valerianicum, 102 Aconitia, 104 Aconitum, 102 napellus, 102 Acorus calamus, 182 Adiantum, 104 capillus veneris, 104 pedatum, 104 Ægle marmelos, 170 Æsculus hippocastanum, 323 Æther aceticus, 104 hydrocyanicus, 105 nitrosus, 552 muriatious, 92 sulphuricus, 105 terebinthinatus, 106 Agathotes chirayta, 221

Albuminum, 107 Aletris, 107 farinosa, 107 Allium, 107 sativum, 107 Aloe, 108 socotrina, 108 spicata, 108 vulgaris, 108 Althæa, 114 officinalis, 114 Alumina, 115 Aluminii acetas, 115 sulphas, 115 Alumen, 116 Ammonia, 121 Ammoniacum, 119 Ammonii acetas, 124 arsenias, 125 benzoas, 125 bicarbonas, 125 bromidum, 125 carbonas, 126 chloridum, 127 citras, 128 iodidum, 128 hypophosphis, 185 nitras, 129 phosphas, 129 succinas, 129 sulphas, 130 sulphuretum, 130 valerianas, 131 Amygdala, 131 amara, 131 dulcis, 131 Amygdalus communis, 131 Amylum, 135 Amyli iodidum, 135 Anacyclus officinarum, 479 pyrethrum, 479 Anamirta cocculus, 236 Anemone, 135 Ludoviciana, 135 pratensis, 135 pulsatilla, 135 Anethum, 136 graveolens, 136 Angelica, 136 atropurpurea, 136 officinalis, 136 Angustura, 137 Anisum, 137

stellatum, 138

Anthemis, 138

Anthemis nobilis, 138 cotula, 252 Anthracokali, 205 Antimonialis pulvis, 140 Antimonium, 139 Antimonii chloridum, 140 et potassii tartras, 142 oxidum, 140 sulphas, 142 sulphuretum, 140 Apis mellifica, 216, 391 Apocynum, 145 androsæmifolium, 145 cannabinum, 145 Aralia nudicaulis, 145 spinosa, 146 Arctium lappa, 369 Arctostaphylos uva ursi, 576 Argentum, 146 Argenti chloridum, 146 cyanidum, 146 iodidum, 146 oxidum, 148 nitras, 146 Aristolochia hirsuta, 535 reticulata, 535 serpentaria, 535 Armoracia, 148 Arnica, 149 montana, 149 nudicaule, 149 Arsenicum, 150 Arsenici chloridum, 150 et hydrargyri iodidum, 151 iodidum, 150 tersulphuretum, 151 Artanthe elongata, 390 Artemisia, 151 absinthium, 83 abrotanum, 151 cina, 510 vulgaris, 152 Arum, 152 triphyllum, 152 Asagræa officinalis, 503 Asarum, 152 canadense, 152 europæum, 152 Asclepias, 152 cornuti, 153 incarnata, 153 syriaca, 153 tuberosa, 152 Asparagus, 153 officinalis, 153 (727)

Aspidium filix mas, 299 Assafetida, 153 Astragalus verus, 574 Atropa belladonna, 170 Atropia, 156 Aurantium, 157 Aurantii cortex, 157 flores, 158 folia, 157 fructus, 159 Auri chloridum, 160 cyanidum, 161 et sodii chloridum, 160 iodidum, 162 oxidum, 162 Aurum, 159 ammoniatum, 162 musivum, 554 stanno-paratum, 163 Avena sativa, 163 Azedarach, 164

OALLOTA lanata, 164 Balsamodendron Ehrenbergianum, 405 myrrha, 405 Balsamum Peruvianum, 164 tolutanum, 165 Baptisia tinctoria, 167 Barii acetas, 167 carbonas, 167 chloridum, 168 iodidum, 168 sulphuretum, 169 Barium, 167 Barosma betulina, 179 crenata, 179 crenulata, 179 serratifolia, 179 Baryta, 169 Beberia, 169 Beccabunga, 169 Bela, 170 Belladonna, 170 Benzoinum, 173 Berberis, 174 vulgaris, 174 Bismuthi et ammonii citras, 175 subcarbonas, 175 subnitras, 175 tannas, 176 valerianas, 176 Bismuthum, 175 Bistorta, 177 Boletus laricis, 177 Brayera anthelmintica, 177 Brominium, 178 Brucia, 178 Bruciæ acetas, 178 murias, 178 sulphas, 178 Bryonia, 179 alba, 199 dioica, 179 Buchu, 179 Buxus, 180 sempervirens, 180

CACAO, 180 Cadmii iodidum, 181 sulphas, 181

Cadmium, 181 Cahinea, 182 Calamina, 182 Calamus, 182 Calcii bromidum, 183 carbonas, 183 chloridum, 184 hypophosphis, 185 iodidum, 185 oxidum, 185 phosphas, 187 sulphuretum, 187 Calcium, 183 Calendula, 189 officinalis, 189 Calotropis, 189 gigantea, 189 Calumba, 190 Calx, 185 chlorinata, 188 Camphora, 191 monobromata, 195 officinarum, 191 Canella, 196 alba, 196 Cannabis, 196 Americana, 196 indica, 196 sativa, 196 Cantharis, 197 vesicatoria, 197 Capsicum, 202 annuum, 202 fastigiatum, 202 Carbo animalis, 203 ligni, 204 mineralis, 205 Carbonis iodidum, 206 sulphuretum, 564 Cardamine, 206 pratensis, 206 Cardamomum, 206 Carota, 206 Carthamus, 207 tinctorius, 207 Carum, 207 carui, 207 Caryophyllus, 208 aromaticus, 208 Cascarilla, 209 Cassia acutifolia, 531 elongata, 531 fistula, 210 marilandica, 210 obovata, 531 Castanea, 210 pumila, 211 vesca, 210 Castor fiber, 211 Castoreum, 211 Catalpa, 212 cordifolia, 212 Cataria, 212 Catechu, 212 pallidum, 212 Ceanothus, 214 americanus, 214 Centaurea benedicta, 215 Centaurium, 215 Cephaëlis ipecacuanha, 354 Cera, 216 alba, 216 flava, 216 Cerasus lauro-cerasus, 370

Cerasus serotina, 478 Cerii oxalas, 216 Cerium, 216 Cetaceum, 217 Cetraria, 218 Chavica officinarum, 352 Chelidonium, 219 majus, 219 Chenopodium, 220 anthelminticum, 220 Chimaphila, 220 umbellata, 220 Chiococca anguifuga, 182 Chiretta, 221 Chloral, 222 Chlorinium, 222 Chloroformum, 223 Chondodendron tomentosum, Chondrus, 223 crispus, 223 Chrysophyllum glycyphlæum, Cichorium, 225 intybus, 225 Cimicifuga, 225 racemosa, 225 Cinchona, 226 calisaya, 226 condaminea, 226 micrantha, 226 succirubra, 226 Cinchonia, 233 Cinnamomum, 234 aromaticum, 234 zeylanicum, 234 Cissampelos pareira, 433 Citrullus colocynthis, 242 Citrus aurantium, 157 limonum, 372 vulgaris, 157 Claviceps purpurea, 272 Cocculus indicus, 236 palmatus, 190 chondodendron, 433 Coccus, 236 Cochlearia, 236 armoracia, 148 officinalis, 236 Codeia, 237 Coffea, 237 arabica, 237 Coffeina, 238 Colchicum, 238 autumnale, 238 Collinsonia, 241 canadensis, 241 Collodium, 242, 315 Colocynthis, 242 Colophonium, 489 Comptonia, 244 Conium, 244 maculatum, 244 Contrayerva, 246 Convolvulus panduratus, 247 scammonia, 521 Copaiba, 247 Copaifera multijuga, 247 Coptis, 250 trifolia, 250 Coriandrum, 250 sativum, 250 Cornu, 251 Cornus, 251

Cornus circinata, 251 florida, 251 sericea, 251 Cotula, 252 Creasotum, 252 Creta præparata, 183 Crocus, 254 sativus, 254 Croton eleutheria, 209 lacciferum, 367 tiglium, 415 Cubeba, 254 Cucumis, 257 citrullus, 257 melo, 257 sativus, 257 Cucurbita pepo, 434 Cuminum cyminum, 262 Cunila, 257 mariana, 257 Cupri acetas, 257 chloridum, 259 subacetas præparatum, 258 sulphas, 260 Cuprum, 257 ammoniatum, 259 Curcuma, 262 longa, 262 Cusso, 177 Cydonium, 262 Cydonia vulgaris, 262 Cyminum, 262 Cypripedium, 262 parviflorum, 262 pubescens, 262 Cytisus scoparius, 528

DAPHNE gnidium, 395 mezereum, 395 Datura stramonium, 555 Daucus carota, 206 Delphinium, 263 consolida, 263 staphisagria, 263, 554 Delphinia, 263 Dextrinum, 263 Dianthus, 263 caryophyllus, 263 Digitalis, 264 purpurea, 264 Digitalinum, 267 Diosma, 179 Diospyros, 268 virginiana, 268 Diplolepis gallæ tinctoriæ, 304 Dirca, 268 palustris, 268 Dorema ammoniacum, 119 Dorstenia contrayerva, 246 Dracontium, 268 Drimys winteri, 584 Dulcamara, 268

ECBALIUM elaterium, 270
Elaterium, 270
Elaterium, 270
Elemi, 271
Elettaria cardamomum, 206
Emetia, 271
Ergota, 272
Erigeron, 274
annuum, 274

Erigeron canadense, 274 heterophyllum, 274 philadelphicum, 274 Eryngium, 274 aquaticum, 274 maritimum, 274 Erythræa centaurium, 215 Eucalyptus globulus, 275 resinifera, 275 Eugenia pimenta, 438 Euonymus americanus, 275 atropurpureus, 275 Eupatorium, 275 perfoliatum, 275 teucrifolium, 275 Euphorbia, 276 corollata, 276 hypericifolia, 276 ipecacuanha, 276 lathyris, 276 resinifera, 276 Euphorbium, 276 Euphrasia, 277 officinalis, 277 Exogonium purga, 359

EL bovinum, 277 Ferrum, 277 ammoniatum, 279 Ferri acetas, 279 arsenias, 280 bromidum, 280 carbonas, 281 carburetum, 283 chloridum, 283 citras, 285 et ammonii citras, 285 sulphas, 286 tartras, 286 et magnesii citras, 286 et potassii tartras, 286 et quiniæ citras, 287 et strychniæ citras, 288 ferrocyanidum, 288 filum, 277 gallas, 288 iodidum, 289 lactas, 291 malas, 292 nitras, 292 oxalas, 293 oxidum hydratum, 293 nigrum, 294 rubrum, 294 persulphas, 295 phosphas, 295 pulvis, 278 pyrophosphas, 296 ramenta, 277 sulphas, 297 sulphuretum, 298 tannas, 298 valerianas, 299 Ferula assafetida, 153 Ficus, 299 carica, 299 Filix mas, 299 Fœniculum, 300 dulce, 300 Frasera, 301

walteri, 301

Fraxinus ornus, 387

Fuligo, 301 Fuligokali, 302

GADUS morrhua, 410 Galbanum, 303 officinale, 303 Galipea officinalis, 137 Galium verum, 304 Galla, 304 Gambogia, 306 Garcinia morella, 306 Gaultheria, 307 procumbens, 307 Gelseminum sempervirens, 307 Gentiana, 308 lutea, 308 Geranium, 310 maculatum, 310 Geoffroya inermis, 311 Geum, 311 rivale, 311 urbanum, 311 virginianum, 311 Gillenia, 312 trifoliata, 312 stipulacea, 312 Glycerina, 312 Glycyrrhiza, 313 echinata, 313 glabra, 313 Gossypii radicis cortex, 315 Gossypium, 314 herbaceum, 314 Granatum, 316 Gratiola, 316 aurea, 316 officinalis, 316 Guarana, 434 Guaiacum, 317 officinale, 317 Gutta percha, 319

HEMATOXYLON, 320 campechianum, 320 Hamamelis, 321 virginica, 321 Hedeoma, 321 pulegioides, 321 Helenium, 321 autumnale, 321 Helianthemum, 321 canadense, 321 Helleborus, 321 niger, 321 Hemidesmus, 322 indicus, 322 Hepatica, 323 triloba, 323 Heracleum, 323 lanatum, 323 Heuchera, 323 americana, 323 Hippocastanum, 323 Hordeum, 324 distichon, 324 vulgare, 324 Humulus, 325 lupulus, 325 Hydrargyri acetas, 331 boras, 331 bromidum, 331 chloridum corrosivum, 332

Hydrargyri chloridum mite, 334 | Limon, 372 eyanidum, 337 et potassii iodidum, 470 et quiniæ chloridum, 337 iodidum rubrum, 338 viride, 339 nitras, 340 oleas, 341 oxidum flavum, 342 nigrum, 341 rubrum, 342 phosphas, 343 sulphas, 344 sulphuretum nigrum, 344 rubrum, 345 tartras, 345 Hydrargyrum, 326 ammoniatum, 331 Hydrastis canadensis, 346 Hyoscyamus, 346 niger, 346

ICHTHYOCOLLA, 348
Ignatia, 349
amara, 349
Illicium anisatum, 138
Indigo, 350
Indigofera, 350
Inula, 350
helenium, 350
Iodinium, 351
Iodoformum, 354
Ipecacuanha, 354
Ipomæa jalapa, 359
Iris florentina, 358
versicolor, 359
Isonandra gutta, 319

JALAPA, 359
Janipha manihot, 568
Jateorrhiza calumba, 190
palmata, 190
Juglans cinerea, 361
Juniperus, 361
communis, 361
oxycedrus, 363
sabina, 504
virginiana, 363

KINO, 363 Kousso, 177 Krameria, 364 triandra, 364

LAC, 366
Lactuca, 367
Lactuca, 368
canadensis (elongata), 368
Lactucarium, 368
Lappa, 369
Lauri baccæ, 370
folia, 370
Lauro-cerasus, 370
Laurus, 370
nobilis, 370
sassafras, 520
Lavandula, 371
vera, 371
Leptandra, 372
virginica, 372

Linum, 375 usitatissimum, 375 Liquidambar, 376 orientale, 559 styraciflua, 376 Liquor arsenici et hydrargyri iodidi, 151 Liriodendron, 376 tulipifera, 376 Lithii carbonas, 376 citras, 376 Lobelia, 376 inflata, 376 Lupulina, 377 Lycopodium, 378 clavatum, 378 Lycopus virginicus, 379

MACIS, 379 Magnesia, 379 magnesii acetas, 380 bitartras, 384 carbonas, 380 citras, 382 phosphas, 382 sulphas, 383 sulphuretum, 384 tartras, 384 Magnesium, 379 Magnolia, 384 glauca, 384 Maltum, 384 Malva, 385 sylvestris, 385 Manganesii carbonas, 385 ehloridum, 385 iodidum, 385 oxidum, 386 phosphas, 386 sulphas, 387 Manganesium, 385 Manna, 387 Mannitum, 388 Maranta, 388 arundinacea, 388 Marrubium, 388 vulgare, 388 Maruta cotula, 252 Mastiche, 389 Matico, 390 Matricaria, 390 chamomilla, 390 Mel, 391 Melaleuca cajuputi, 410 Melia azedarach, 164 Melilotus, 392 officinalis, 392 Melissa, 392 officinalis, 392 Mentha crispa, 394 piperita, 393 viridis, 394 Menyanthes, 395 trifoliata, 395 Mezereum, 395 Millefolium, 86 Momordica elaterium, 270 Monarda, 396 punctata, 396 Monesia, 397 Mora, 397 Morphia, 397

Morphiæ acetas, 398 bimeconas, 399 citras, 399 hydriodas, 400 murias, 400 nitras, 401 phosphas, 401 sulphas, 401 tartras, 402 Morus nigra, 397 rubra, 397 Moschus, 402 moschiferus, 402 Mucuna, 403 pruriens, 403 Myrcia, 404 acris, 404 Myristica, 404 fragrans, 404 moschata, 404 Myrospermum toluiferum, 165 peruiferum, 164 Myroxylon Pereiræ, 164 Myrrha, 405

NAPHTHALINA, 407
Narcotina, 407
Narcotinæ murias, 408
Narthex, 153
Nectandra rodiæi, 169
Nepeta cataria, 212
Nephrodium filix mas, 299
Nicotiana tabacum, 566
Nux vomica, 408

OLEA EUROPÆA, 412 Oleum animale empyreumaticum, 409 cajuputi, 410 jeoris aselli, 410 morrhuæ, 410 olivæ, 412 ricini, 412 terebinthinæ, 413 tiglii, 415 Ophelia chirata, 221 Opium, 417 Opoponax, 429 chironium, 429 Opuntia cochinillifera, 236 Origanum, 429 majorana, 429 vulgare, 429 Ornus europæa, 387 Oryza, 430 sativa, 430 Ovum, 430 Oxalis acetosella, 85

PANAX, 431
quinquefolium, 431
shinseng, 431
Panereatinum, 431
Papaver, 432
rhœas, 496
somniferum, 417, 432
Pareira, 433
brava, 433
Paullinia, 434
sorbilis, 434
Pepo, 434

Phloridzinum, 436 Phosphorus, 436 Physeter macrocephalus, 217 Physostigma, 437 venenosum, 437 Phytolacca, 438 decandra, 438 Picræna excelsa, 480 Pimenta, 438 Pimpinella anisum, 137 Pinus, 413 palustris, 441, 442 tæda, 441 Piper, 439 angustifolium, 390 cubeba, 254 longum, 440 nigrum, 439 Piperina, 440 Piscidia erythrina, 440 Pistacia lentiscus, 389 Pix burgundica, 441 canadensis, 442 liquida, 442 nigra, 443 Platini bichloridum, 443 et sodii chloridum, 444 Platinum, 443 Plumbi acetas, 444 carbonas, 447 chloridum, 448 iodidum, 448 nitras, 448 oxidum, 449 rubrum, 450 saccharas, 450 tannas, 450 Plumbum, 444 Podophyllum, 450 peltatum, 450 Polygala rubella, 451 senega, 529 Polygonum bistorta, 177 Potassa, 452 chlorinata, 453 Potassii acetas, 453 arsenitis liquor, 454 arsenias, 454 bicarbonas, 455 biehromas, 458 bisulphas, 455 bitartras, 455 boras, 457 borotartras, 457 bromidum, 458 carbonas, 458 chloras, 461 chloridum, 461 citras, 462 cyanidum, 462 et ammonii carbonas, 463 sulphas, 463 tartras, 464 et magnesii sulphas, 464 et sodii tartras, 464 hypophosphis, 185 iodas, 465 iodidum, 465 ioduretum, 468 iodohydrargyras, 470

Pepsinum, 434

Petroleum, 435

Petroselinum, 436

sativum, 436

Potassii nitras, 471 oxalas, 472 permanganas, 473 silicas, 473 sulphocyanidum, 474 sulphas, 473 sulphuretum, 474 tartras, 477 Potassium, 451 Potentilla tormentilla, 573 Prinos, 478 verticillatus, 478 Prunum, 478 Prunus domestica, 478 lauro-cerasus, 370 virginiana, 478 Pterocarpus marsupium, 363 santalinus, 510 Punica granatum, 316 Pyrethrum, 479

UASSIA, 480 amara, 480 excelsa, 480 Quercus, 481 alba, 481 infectoria, 304 pedunculata, 481 sessiliflora, 481 tinctoria, 481 Quinia, 482 Quiniæ acetas, 482 arsenias, 482 arsenis, 482 bisulphas, 483 citras, 483 et ferri citras, 287, 483 iodidum, 483 et hydrargyri chloridum, 484 ferrocyanas, 483 hydriodas, 483 iodureta, 483 kinas, 484 lactas, 484 murias, 484 nitras, 485 phosphas, 485 sulphas, 485 sulpho-tartras, 488 tannas, 488 tartras, 488

RANUNCULUS, 489 bulbosus, 489 Resina, 489 Rhamnus, 490 catharticus, 490 Rheum, 490 officinale, 490 Rhœas, 496 Rhus glabrum, 496 toxicodendron, 573 Ricinus communis, 412 Rosa canina, 497 centifolia, 497 gallica, 498 Rosmarinus, 499 officinalis, 499 Rottlera, 500 tinctoria, 500

valerianas, 488

Rubia, 500
tinetorum, 500
Rubus canadensis, 501
idæus, 502
villosus, 501
Rumex, 502
crispus, 502
Ruta, 502
graveolens, 502

CABADILLA, 503 Sabbatia, 503 angularis, 503 Sabina, 504 Saccharum, 505 lactis, 506 officinarum, 505 Sagapenum, 506 Sago, 507 Salicinum, 507 Salix, 507 alba, 507 Salvia, 508 officinalis, 508 Sambueus, 509 canadensis, 509 nigra, 509 Sanguinaria, 510 canadensis, 510 Santalum, 510 album, 511 Santonica, 510 Sapo, 512 durus, 512 mollis, 512 vulgaris, 512 Sarothamnus scoparius, 528 Sarsaparilla, 516 Sassafras, 520 officinale, 520 Scammonium, 521 Scilla, 522 maritima, 522 Scoparius, 528 Scrophularia nodosa, 528 Scutellaria, 528 integrifolia, 528 lateriflora, 528 pilosa, 528 Semen contra, 510 Senega, 529 Senna, 531 Serpentaria, 535 Sesamum, 536 indicum, 536 orientale, 536 Simaruba, 536 excelsa, 480 officinalis, 536

Sinapis, 537

Smilax, 516

Soda, 538

alba, 537 nigra, 537

Sodii acetas, 539

chlorinata, 539

bicarbonas, 540

bisulphas, 542

bromidum, 543

carbolas, 544

carbonas, 544

boras, 542

arsenias, 540

Sodii chloras, 545 chloridum, 546 citras, 547 et potassii tartras, 464 hypophosphis, 185 hyposulphis, 547 iodidum, 547 nitras, 547 phosphas, 548 sulphas, 548 sulphidum, 549 sulphis, 549 sulphuretum, 549 tartras, 550 valerianas, 550 Sodium, 538 Solanum dulcamara, 268 Solidago, 540 odora, 540 virgaurea, 540 Spigelia, 551 marilandica, 551 Spiræa, 552 tomentosa, 552 Spiritus ætheris nitrosis, 552 Spongia, 552 Stanni chloridum, 553 oxidum, 553 sulphuretum, 554 Stannum, 553 Staphisagria, 554 Statice, 554 caroliniana, 554 Stillingia, 554 sylvatica, 554 Stramonium, 555 Strychnia, 557 Strychniæ acetas, 558 iodas, 558 murias, 558 nitras, 558 phosphas, 558

sulphas, 558

Strychnos ignatia, 349
nux vomica, 178, 408
Styrax, 559
benzoin, 173
Succinum, 560
Sulphur, 561
Sulphuris carburetum, 564
iodidum, 565
Sumbulus, 565
moschatus, 565
Symplocarpus fœtidus, 268

TABACUM, 566 I Tamarindus, 567 indica, 567 Tanacetum, 568 vulgare, 568 Tapioca, 568 Taraxacum, 569 dens leonis, 569 Terebinthina, 571 Testa præparata, 183 Theobroma cacao, 180 Thus, 441 Tilia Europæa, 572 Tormentilla, 573 Toxicodendron, 573 Tragacantha, 574 Trifolium fibrinum, 395 Triosteum, 574 perfoliatum, 574 Triticum repens, 575 Tussilago, 575 farfara, 575

ULMUS CAMPESTRIS, 575 fulva, 576 Uncaria gambir, 212 Urginea scilla, 522 Uva ursi, 576

VALERIANA, 577 officinalis, 577 Vanilla, 580 aromatica, 580 Veratria, 580 Veratrize murias, 582 nitras, 582 sulphas, 582 Veratrum album, 582 sabadilla, 503 viride, 583 Veronica anagallis, 169 beccabunga, 169 virginica, 372 Viola, 584 odorata, 584 pedata, 584

WINTERA, 584

XANTHORRHIZA, 585 apiifolia, 585 Xanthoxylum, 585 fraxineum, 585

ZINCI ACETAS, 585
carbonas, 586
chloridum, 586
cyanidum, 587
ferro-cyanidum, 588
iodidum, 588
lactas, 589
nitras, 589
oxidum, 589
sulphas, 590
sulpho-carbolas, 592
valerianas, 592
Zingiber, 593
officinale, 593

## GENERAL INDEX.

Abbreviations in pharmaceuti- | Aconite, extract of root, 103 cal formulæ, 47 Acetate of aluminium, 115 ammonium, 124 barium, 167 brucia, 178 copper, 257 iron, 279 lead, 444 magnesium, 380 mercury, 331 morphia, 398 potassium, 453 quinia, 482 sodium, 539 strychnia, 558 zinc, 585 Acetic acid, 86, 687 cataplasm, 87 clyster, 87 diluted, 86 glacial, 86 mixture, 87 Acetic ether, 104 Acid, acetic, 86, 687 camphorated, 87 arsenious, 88, 687 benzoie, 89 boracie, 89, 688 carbolic, 90, 695 carbonic, 89, 688, 695 chromic, 92 citric, 92, 689 gallic, 92 hydriodic, 94 hydrocyanic, 93, 689 hydrosulphuric, 94 lactic, 95 muriatie, 96, 689 nitrie, 97, 690 nitro-muriatic, 98 oxalic, 98, 690 phosphoric, 98 polygalic, 530 pyroligneous, 88 succinic, 99 sulphurie, 99, 691 sulphurous, 100 tannic, 100 tartaric, 101, 691 valerianic, 102 Acidometer, 34 Acids, 69 Aconite, 102 extract, 102

pills of, 103 liniment, root, 103 mixture, 104 ointment, 103 ammoniated, 104 and chloroform, 103 oleo-infusion, 103 plaster, 103 powder, compound, 102 saccharated powder, 506 tincture of leaves, 103 Fleming's tincture, 595 tincture of root, 103 wine, compound, 103 Aconitia, 104 lotion, 104 ointment, 104 Acorn coffee, 481 Acoustic balsam, 164, 595 Adhesive plaster, 489 Baynton's, 449 Administration of medicines, 63 Aërometers, 33 Affusion, 671 Agaric, white, 177 pills with opium, 177 powder, 177 with opium, 177 Air in convalescence, 81 Albumen, 107 desiccated, 107 water, 107 iodated, 107 Alcohol, 692 ammoniated, 124 aromatic, 123 mixture, 124 Vicat's anodyne, 124 anisated, ammoniated, 124 lotion, 124 mixture, 124 Algaroth, powder of, 139 Alkalies, poisoning by, 692 Alkaloids, 665, 704 Allspice, 438 bolus, 438 essence, 439 spirit, 439 tincture, 439 water, 439 Almonds, 131 bandoline, 135

bitter, 131

Almonds, butter, 131 clyster, emollient, 133 cold cream, 133 confection, 132 cream, 133 emulsion, 133 aromatic, 133 nitrated, 133 jelly, 608 linctus, green, 133 white, 133 liniment. cosmetic, 134 Lockstadt's pills, 134 lotion, compound, 132 Goulard's, 132 Macassar oil, 134 milk anodyne, 132 artificial, 132 of roses, 132 oil, 133 mixture, 134 of bitter, 134 paste, 131 powder, 131 compound, 132 soap, 513 sweet, 131 syrup of orgeat, 132 water of bitter, 133 concentrated, 134 diluted, 134 diuretic, 134 Aloes, 108 clyster, anthelmintic, 112 decoction, compound, 112 electuary, laxative, 111 elixir, Boerhaave's, 113 Clauder's, 112 Garus's, 114 Stoughton's, 113 enema, 112 extract, 111 with sulphuric acid, 111 injection, detersive, 112 mixture, 112 alkaline, 112 ointment, 114 pills, 108 Anderson's, 109 antichlorotic, 110 aperient, 111 and mastic, 109 and rhubarb, 111 Barthez's, 111 (733)

Aloes pills, Bicker's, 110	Amber artificial muck tine-	Ammoniated alcohol, anisated
Chapman's, 109		
compound, 108	ture, 560 balsam, 561	mixture, 124
Duchesne's, 110	eau de luce, 561	aromatic, 123
extract, 111	liniment, 561	Mixture, 124 Vicat's, 124
Frank's, 111	mixture of oil, 561	gold, 162
Fuller's, 110	oil, 560	pills, 162
Hooper's, 109	and copaiba, 561	iron, 279
James's, 110	rectified, 560	bolus, 280
Lady Webster's, 109	powder, fumigating, 560	mixture, 280
Mitchell's, 109	tincture, 561	pills, 280
Morrison's, 109	alkaline, 561	powder, 280
Peter's, 110	ethereal, 561	Ammonio-citrate of bismuth,
Pittschaft's, 111	varnish, 606	175
Stahl's aperient, 110	American centaury, 503	of iron, 285
Speediman's, 110	extract, 504	tartrate of iron, 286
splenetic, 110	infusion, 504	solution, 287
Whytt's, 110	tincture, 504	Ammonium acetate, 124
with assafetida, 108	colombo, 301	cataplasm, 124
blue mass, 111	infusion, 301	collyrium, 124
iron, 109	tincture, 301	gargle, 125
myrrh, 109	hellebore, 583	mixture, 125
powder, 108	extract, 583	solution, 124
and canella, 108	fluid, 583	arseniate, 125
compound, 108	mixture, 584	solution, 125
emmenagogue, 108	ointment, 583	bicarbonate, 125
purified, 108	pills, 583	bromide, 125
spirit of Garus, 113	tincture, 583	carbonate, 126
suppository, 111, 114	wine, 583	aromatic, 126
tincture, 113	hemp, 196	draught, 126
compound, 113	senna, 210	drops, 126
and myrrh, 113	infusion, 210	liniment, 127
ethereal, 113	Ammonia, 121, 692	mixture, 126
wine, 112	gargle, 122	and ginger, 126
alkaline, 112	Gondret's ointment, 122	ointment, 127
balsamie, 112	Granville's lotion, 122	pills, 126
Alterative, Plummer's, 334 Alum, 116	liniment, 121	plaster, 127 potion, 126
saccharine, 116	terebinthinate, 123	pyro-oleous, 127
boluses, 116	compound, 121	solution, 126
burnt, 116	sulphuretted, 123	pyro-oleous, 127
collyrium, 117	lotion, 122	chloride, 127
eurd, 117	mixture, 122	bolus, 127
draughts, 119	and ether, 122	cataplasm, 128
electuaries, 117	and chloride copper, 259	collutory, 128
errhine, 116	opodeldoc, liquid, 123, 514	collyrium, 128
gargles, 118	Steer's, 123, 514	draught, 128
injections, 118	plaster, 123	emulsion, 128
julep, 118	solution, 123	fomentation, 127
liniment, 118	spirit, 123	liniment, 128
lotions, 118	aromatic, 123	lotion, 127
ointment, 119	fetid, 123	mixture, 128
Anglo-Saxon, 119	sinapism, 122	powder, 127
chilblains, 119	tincture, compound, 122	wash, 128 chloride, and silver, 146
pile, 119	water, 121 a	
Rust's, 119 pills, 117	Ammoniac, 119 mixture, 120	pills of, 146 citrate, 128
with benzoic acid, 117	compound, 120	solution, 128
powder, 116	with assafeetida, 120	hypophosphite, 185
root, 323	with castor, 120	iodide, 128
solution, 117	with nitric acid, 120	glycerite, 129
odontalgie, 117	pills, 119	liniment, 129
whey, 118, 366	compound, 120	ointment, 129
aromatic, 119, 366	De Haen's, 120	nitrate, 129
Alumina, 115	Klein's, 120	mixture, 129
astringent, Rust's, 115	with rhubarb, 120	phosphate, 129
electuary, 115	plaster, 121	effervescing draught,
Aluminium, hydrate, 115	with hemlock, 121	129
acetate, 115	mercury, 121	solution, 129
sulphate, 115	purified, 119	succinate, 129, 130
wash, detergent, 116	Ammoniated alcohol, 124	liniment, 130
Amber, 560	anisated, 124	mixture, 130
artificial musk, 560	elixir, 124	solution, 129
emulsion, 560	lotion, 124	spirit, 130

Ammonium succinate, with	Antimony, sulphuret, 140	Arsenical soap, 513
ether, 130	golden, 141	Arsenious acid, 88, 687
sulphate, 130	powder, 142	cerate, 88
sulphide, 130	Kermes mineral, 141	pills, 89
liniment, 130 sulphuretted, 130	emulsion, 141 lozenges, 141	with opium, 89
syrup, 130	mixture, 141	pepper, 89
Amorphous quinia, 482	Kermesine powder, 141	powder, 88
Anatomical injections, 598	compound, 141	compound, 88
preservative, 598	lozenges, 140	solution, 88
arterial and venous,	mixture, 142	Arsenite of potassium solution, 454
Anderson's pills, 109	with lime, 142 pills, 142	of quinia, 482
Anemone, 135	plaster, 142	Arteriotomy, 684
collyrium, 136	ointment, 141	Artificial asses' milk, 611
extract, 136	pills, 140	milk, 132
pills, 136	precipitated, 140	musk, 560
water, 136	sulphate, 142	sulphuretted water, 95,
Angelica, 136	tartrate and potassium, 142	549 Asarabacca, 152
conserve, 137	Anti-odontalgic mass, 421	powder, compound, 152
essence, 137 errhine mixture, 136	paste, 389 Antispasmodics, 70	Asparagus, 153
spirit, compound, of fruit,	Apothecaries' measure, 26	decoction of roots, 153
136	value in French mea-	extract of roots, 153
of root, 136	sure, 29	shoots, 153
tincture, 136	value in imperial mea-	mixture, 153
tree, 145	sure, 27	syrup of shoots, 153
water, 136	weight, 20	Assafetida, 153
Angustura, 137	Apple water, 609	Dewees's carminative, 156 enema, 154
electuary, 137 infusion, 137	Approximative measures, 27,28 Aqua fortis, 97, 690	mixture, 154
mixture, 137	Arnica, 149	compound, 155
tincture, 137	decoction, 150	with oxymel squill, 155
Animal charcoal, 203	extract, 149	tolu, 155
fats, 665	fomentation, 149	pills, 154
oil (Dippel's), 409	and rue, 150	with aloes, 108
Anise, 137	infusion, 149	iron, 154
essence, 138	compound, 149	lactucarium, 154
lozenges, 138 mixture, 138	plaster, 150 powder, compound, 149	musk, 154 opium, 154
oil, 138	tincture, 150	plaster, 156
spirit, 137	Aromatic bath, 499	purified, 153
star, 138	soap, 513	spirit, 156
tincture, 138	vinegar, 87, 499	suppositories, 156
water, 138	Arrowroot, 388	syrup, 155
Antacids, 70	beef tea, 388	tincture, 155
Anthelmintic purgative, 335 Anthelmintics, 71	milk, 388	alkaline, 155 and castor, 156
Anthracokali, 205	pudding, 388 vanilla, 580	ethereal, 155
powder, 205	water, 388	and soot, 156
compound, 205	Arseniate of ammonium, 125	water, compound, 155
sulphuretted, 205	iron, 280	Asses' milk, artificial, 611
Antibilious pills, 243	potassium, 454	Atropia, 156
Antidote, general, 687	quinia, 482	ointment, 157
to arsenic, 293	sodium, 540	solution, 157
Anti-dysenteric opiate, 422 Antilithics, 70	solution, 540 Arsenic, 88, 150, 687	of sulphate, 157 syrup, 157
Antimonial ethiops, 326	antidote, 293	tincture, 157
powder, 140	chloride, 150	sulphate, 156
James's, 140	solution, 150	Avens, 311
pills, with calomel, 140	iodide, 150	mixture, 312
wine, 144	ointment, 150	powder, compound, 312
Antimony, 139, 691	pills, 150	water, 311
chloride, 139	solution with bromine, 595	decoction, 311
ointment, 139 solution, 139	with mercury, 151 draught, 151	white, 311 Avoirdupois weight, 17
oxide, 140	tersulphuret, 151	Azedarach, 164
oxysulphuret, 141	white, 88	decoction, 164
sulphurated, 140	Arsenical solution, 88	ointment, 164

# В

Bael, 170	Bateman's drops, 427	Belladonna, oleo-infusion, 172
fluid extract, 170	Bath, aromatic, 499	opiated, 171
W		
Balm, 392	cold, 667	pills, compound, 171
infusion, 392	common salt and gelatin,	and camphor, 171
spirit, compound, 392	546	plaster, 173
tea, 392	cool, 668	powder, 170
water, 392	douche, 670	and rhubarb, 170
antihysteric, 393	foot, 670	saccharated, 506
concentrated, 392	hip, 670	suppositories, 172
Balsam, acoustic, 164, 595	hot, 669	syrup, 171
	hydrosulphuretted, 95	Gillet's, 171
amber, 561		
cloves, aromatic, 209	hyposulphite sodium, 547	tincture, 172
Goulard's, 445	iodide of iron, 291	ethereal, 172
Hoffmann's life, 165	iodine, 352	Blackett's, 595
Locatelli's, 165	ioduretted, 468	Belloste's pills, 329
Metz's, 258	local, 670	Benne, 536
nervine, 370, 404, 499	medicated, 671	infusion, 536
of nutmeg, 404	muriatic acid, 96	oil, 536
of Peru, 164	nitro-muriatic acid, 97	Benzoic acid, 89
collutory, 165	shower, 669	and copaiba mixture, 89
liniment, 164	sulphuret of potassium,	and ipecacuanha powder,
lotion mamillary, 164	476	89
mixture, 165	sodium, 550	mixture, 89
ointment, 165	temperate, 668	Benzoin, 173
compound, 165	tepid, 668	balsam, Turlington's, 174
pills, 164	vapor, 670	emulsion, 174
plaster, 165	warm, 668	lard, benzoinated, 173
syrup, 165	air, 670	lotion, 174
tincture, 165	Baths, 667	milk of roses, 174
of tolu, 165	Baumé's hydrometer, 34	oil, 174
soap, camphorated acetic,	table of agreement	pastilles, fumigating, 173
515	with sp. gr., 38, 39	powder, 173
sulphur, 563	tincture, 350	fumigating, 173
ethereal, 563	Bay myrtle, 404	tincture, 174
terebinthinated, 563	spirit, 404	compound, 174
toothache, 421	Baynton's plaster, 449	wash, 174
Turlington's, 174	Bay tree, 370	Bestucheffe's tincture, 284
Dandalina 125 969 412		
Bandoline, 135, 262, 413	Bearberry, 576	Bibromide of mercury, 332
Banyer's ointment, 449	Bebeerina, 169	Bicarbonate of ammonium, 125
Barberry, 174	pills of sulphate, 169	of potassium, 455
infusion, 175	solution of sulphate, 169	of sodium, 540
lemonade, 174	Beconi's soap, 513	Bichloride of platinum, 443
Bariem 167	Beef essence, 608	Bichromate of potassium, 458
acetate, 167	tea, 608	Bimeconate of morphia, 399
solution, 167	arrowroot, 388	Biniodide of potassium, 468
carbonate, 167	Beef-marrow soap, 513	of quinia, 483
chloride, 168	Beer, ginger, 593, 610	Biscuit jelly, 607
collyrium, 168	molasses, 611	Bismuth, 175
mixture, 168	Peruvian, 232	ammonio-citrate, 175
pills, 168	pipsissewa, 221	subcarbonate, 175
powders, 168	sarsaparilla, 520	pills, 175
solution, 168	spruce, 611	subnitrate, 175
iodide, 168	tar, 442	glycerite, 176
ointment, 169	yeast, 277	lotion, 176
powder, 168	mixture, 277	ointment, 176
sulphuret, 169	poultice, 277	and tannin, 176
Barley, 324	Beer's divine stone, 258	pills, 176
decoction, 324		powder, compound,
	Belladonna, 170	
compound, 324	cerate, 173	175
with nitrate of potass-	clyster, 172	troches, 176
ium, 325	extract, 171	tannate, 176
meal, 324		valerianate, 176
	alcoholic, 171	
sugar, 324	solution, 171	Bistort, 177
mixture, 611	fluid extract, 172	clyster, astringent, 177
Barlow's lotion, 476	fumigation, 171	extract, 177
	infusion, 171	infusion, 177
Baryta, 169, 693		
liniment, 169	liniment, 172	mixture, 177
solution, 169	mixture, 172	Bisulphate of potassium, 455
Basilicon ointment, 489	ointment, 173	sodium, 542
		A STATE OF THE STA

Bisulphate of sodium and magnesium, 542 Bitartrate of magnesium, 384 of potassium, 455 Bitter almonds, 131 polygala, 451 Bittersweet, 268 decoction, 269 compound, 269 extract, 269 fluid, 269 pills, 269 infusion, 269 mixture, 269 and antimonial wine, 145 syrup, 269 Black alder, 478 decoction, 478 drop, 425 Guy's Hospital, 425 Houlton's, 425 Lancaster, 425 Porter's, 425 Rousseau's, 425 draught, 533 hellebore, 321 extract, 321 vino-alcoholic, 322 pills, 322 ointment, 322 pills, compound, 321, 322 tincture, 322 mixture, 322 wine, compound, 322 ink, 603 oak, 481 oxide of iron, 294 manganese, 386 mercury, 341 pepper, 439 cataplasm, 440 confection, 439 electuary, 439 oil, resinous, 439 volatile, 439 ointment, 439 oleoresin, 439 plaster, 440 Ward's paste, 439 pitch, 443 ointment, 443 pills, 443 plaster, 443 purslane, 276 infusion, 276 snakeroot, 225 decoction, 226 extract, 226 fluid, 226 tincture, 226 sulphuret of mercury, 344 wash, 341 Blackberry, 501 decoction, 501 extract, fluid, 501 syrup, 501 Blackett's tincture belladonna, Blacking, 600 for grates, 600 Blancard's pills, 290 Blancmange isinglass, 611 47

Blancmange rice, 611 Blessed thistle, 215 infusion, 215 wine, 215 Blistering cloth, cantharides, court plaster, 201 paper, 201 Blisters, 76 Blood-letting, 681 general, 682 topical, 684 Bloodroot, 510 infusion, 510 pills, 510 syrup, 510 tincture, 510 compound, 510 vinegar, 510 Blue gum tree, 275 flag, 359 ink, 604 pills, 328 and colocynth, 328 and jalap, 328 and quinia, 328 and rhubarb, 328 Boiled flower, 608 Bolus, 641 acetate of morphia, 398 potassium, 453 allspice, 438 alum, 116 ammoniated iron, 280 burnt sponge, 553 castor, 211 catechu, 213 chloride of gold, 160 cinchonia, 233 copaiba, 247 croton oil, 514 foxglove, 264 ipecacuanha, 355 iron, metallic, 278 male fern, 299 chloride ammonium, 127 musk, 402 narcotina, 407 oxide of manganese, 386 Peruvian bark, extract of, pomegranate root, 316 sal ammoniae, 127 soap, 514 sulphate of morphia, 398 sulphuret of potassium, 475 tartar emetic, 143 valerian and iron, 577 sulphate of potassium, 577 Boneset, 275 decoction, 275 infusion, 275 compound, 275 Boot composition, 600 Boracic acid, 89, 688 collutory, 90 mixture, 90 Borate mercury, 331 potassium, 457 sodium, 542

Borax, 542

collutory, 542

Borax, collyrium, 543 gargle, 543 glycerite, 543 honey, 543 liniment, 543 lotion, 543 lozenges, 542 mixture, 543 ointment, 543 pills with aloes, 542 powder, compound, 542 vinegar, 543 wash, cosmetic, 543 Boullay's filter, 650 Bowman's root, 276 Box, 180 oil, 180 Boyle's fuming liquor, 130 Bran tea, 609 Brass, solder for, 605 Brayera, 177 Bread jelly, 607 British oil, 435 Bromide of ammonium, 125 calcium, 183 iron, 280 mercury, 331 potassium, 458 sodium, 543 Bromine, 178, 649 lotion, 178 ointment, 178 solution, 178 alcoholic, 178 Brooklime, 169 decoction, 170 syrup, 170 water, 169 Broom, 528 conserve, 528 decoction, 528 compound, 528 extract, 528 juice, 528 tincture, 528 Broth, mutton, 609 vegetable, 607 Brown mixture, 314 Brucia, 178 acetate, 178 muriate, 178 pills, 178 solution, 178 sulphate, 178 tincture, 178 Bryony, 179 cataplasm, 179 compound, 179 wine, 179 Buchu, 179 extract, 179 fluid, 179 infusion, 179 compound, 179 tincture, 179 Buckbean, 395 elixir, bitter, 395 extract, 395 infusion, 395 mixture, 395 diuretic, 395 pills, compound, 395 Buckler's croup mixture, 357 neuralgia liniment, 581

Buckthorn, 490 extract, 490 syrup, 490 Bug poison, 600 Burdock, 369 decoction, 369 infusion, 369 Burgundy pitch, 441
pills, 441
plaster, 441
Burnt alum, 116
hartshorn, 251
sponge, 553
sugar, 505

Butter of almonds, 131
cacao, 181
mixture, 181
ointment, 181
Butternut, 361
extract, 361
Button snakeroot, 274

# C

Cabbage-tree bark, 311 decoction, 311 extract, 311 mixture, 311 Cacao, 180 butter, 181 mixture, 181 ointment, 181 chocolate, aromatic, 180 cream, 181 salep, 181 simple, 180 vanilla, 180 white, 181 powders, compound, 180 palamoud, 180 racahout, 180 wakaka, 180 Cachou aromatisé, 214 Cadmium, 181 iodide, 181 ointment, 181 sulphate, 181 ointment, 182 solution, 181 Caffeina citrate, 238 pills, 238 syrup, 238 hypodermic injection, 238 Cahinea, 182 decoction, 182 extract, 182 Cajeput oil, 410 liniment, 410 mixture, 410 rectified, 410 spirit, 410 Cakes, soda, 611 Calabar bean, 437 extract, 437 glycerite, 438 hypodermic injection, 438 paper, 438 powder, 438 tincture, 438 Calamine, 182 prepared, 182 cerate, 182 Calamus, 182 extract, 183 fluid, 183 electuary, 182 infusion, 182 compound, 182 tincture, 182 compound, 183 Calcium, 183 bromide, 183

mixture, 183

Calcium, carbonate, 183 dentifrice, 184 electuary, 184 lozenges, 184 mixture, 184 compound, 184 powder, aromatic, 183 compound, 184 with opium, 184 precipitated, 183 prepared chalk, 183 oyster shell, 183 chloride, 184 cataplasm, 184 mixture, 185 pills, 185 solution, 184 hypophosphite, 185 solution, 185 syrup, 185 iodide, 185 pills, 185 lactophosphate, mixture, 183 syrup, 187 phosphate, 187 electuary, dentifrice, 187 hartshorn, burnt, 187 powder, dentifrice, 187 syrup, 187 sulphuret, 187 liniment, 188 pills, compound, 188 Calomel, 334 collyrium, dry, 335 electuary with, 337 pills, 335 and acetate of lead, 335 and antimony, 336 catechu, 336 colocynth, 336 dandelion, 335 guaiacum, 336 iron, 335 jalap, 336 opium, 337 quinia, 335 squill, 335 eathartic, compound, 243 compound, 336 ointment, 337 with acetate of copper, 337 alum, 337 camphor, 337 squill, 337

Calomel powder with antimony, 334 and henbane, 334 anthelmintic, 335 with foxglove, 334 gamboge, 335 jalap, 334 and rhubarb, 334 nitrate of potassium, 335 opium, 335 pink-root, 335 Calves'-feet jelly, 608 Camphor, 191 and chloroform, 194 ether, 194 Hoffmann's anodyne, 192 laudanum, 192 milk, 193 nitrie acid, 192 clyster, 194 collyrium, 195 cough mixture, 195 essence, Ward's, 194 emulsion, 193 infusion, 193 liniment, 194 and turpentine, 195 vinegar, 194 compound, 194 ethereal, 194 lotion, 194 mixture, 193 and chloroform, 194 ether, 194 myrrh, 193 Parrish's, 193 monobromated, 195 nitrate, 195 ointment, 195 compound, 195 pills, 192 and lactucarium, 192 musk, 192 tartar emetic, 143 compound, 192 powder, 191 compound, 192 spirit, 193 tincture, 193 and saffron, 193 ethereal, 193 mixture, 193 water, 192 mixture, 194 wine, 193 Camphorated acetic acid, 87 soap, 513

Camphorated tooth-powder, 194	Carbolic acid ether, 90	Castanello's powder, 607
vinegar, 87	gargle, 91	Castile soap, 512
Canada fleabane, 274	glycerite, 90	Castor oil, 412
extract, 274	impure, 91	bandoline, 413
fluid, 274	inhalations, 90	clyster, 413
infusion, 274	liniment, 91 lotion, 91	emulsion, 413 seeds, 413
oil, 274 mixture, 274	mixture, 91	mixture, 413
pitch, 442	mouthwash, 91	with ether, 413
Canella, 196	ointment, 91	oleaginous, 412
and aloes, powder, 196	powder disinfectant, 90	Castor, 211
Canatla plantar 204	suppositories, 91	bolus, 211
Canet's plaster, 294 Cantharides, 197, 694	vinegar, 90 water, 90	pills, 211 and succinic acid, 211
cerate, 199	Carbon, iodide, 206	plaster, compound, 212
cloth, blistering, 201	ointment, 206	powder, compound, 211
court-plaster, blistering,	bisulphide of, 564	saccharated, 506
201 deposition 100	drops, 565	spirit, compound, 212
decoction, 199 emulsion, 197	liniment, 565 mixture, 565	tincture, 211 ammoniated, 211
extract, 199	Carbonate of ammonium, 126	compound, 212
cerate, 200	barium, 167	ethereal, 211
ethereal, 199	bismuth, 175	Catalpa, 212
hairwash, 202	calcium, 183	decoction, 212
infusion, 197	iron, 281	Cataplasms, 674
acetic, 197 liniment, 199	lead, 447 lithium, 376	acetate of lead, 446 acetate ammonium, 124
aromatic, 201	water, effervescent, 376	acetic acid, 87
and camphor, 199	magnesium, 380	anodyne, 346
soap, 199	manganese, 385	black pepper, 440
stimulating, 201	potassium, 458	bryony, 179
liquid, blistering, 198 oleo-infusion, 199	and ammonium, 463	compound, 179
ointment, 200	godium, 544 zine, 586	carrot-root, 207 cayenne pepper, 203
compound, 200	Carbonic acid, 91, 688	charcoal, 205
of extract, 200	water, 91	chloride of calcium, 184
issue, 201	Carburet of iron, 283	chlorinated soda, 539
paper, 201	sulphur, 564	clove, 209
pills with camphor, 197 capsicum, 197	Cardamom, 206	emollient, 375 flaxseed, 375
iron, 197	confection, 206 extract, ethereal, 206	and bran, 375
plaster, 200	powder, aromatic, 206	garlic, 107
camphorated, 200	tincture, 206	hemlock, 246
compound, 200	compound, 206	hops, 326
odontalgic, 200 perpetual, 200	Carminative, Dalby's, 381	horseradish, 149 iodine, 353
pitch, 200	Dewees's, 156, 381 drops, 379	lead, 446
warming, 200	Carrageen, 224	long pepper, 440
pomatum, 201	decoction, 224	mayweed, 252
powder with camphor, 197	jelly, 225	mercurial, 330
savine, 197	dry, 225	mustard, 537
shampoo liquid, 202 sparadrap, 201	mixture, 225 powder, saccharated, 225	compound, 537 oak bark, 481
tincture, 198	troches, 225	oatmeal, 163
camphorated, 198	Carron oil, 186	Peruvian bark, 231
compound, 198	Carrot, 206	powder for, 163
ethereal, 198	cataplasm, 207	pyroligneous acid, 88
camphorated, 199 with guaiacum, 198	extract, 207	sal ammoniae, 128
vinegar, 198	infusion of fruit, 207 ointment, 207	slippery elm, 576 soap, 515
Cantharidal collodion, 201	Cartier's hydrometer, 35	soot, 302
ether, 198	Cascarilla, 209	subacetate of lead, 446
taffeta, 201	extract, 209	tobacco, 567
Capuchin powder, 503	mixture, 209	vinegar, 86
Caramel, 505 Caraway, 207	infusion, 209 alkaline, 209	yeast, 277 Catechu, 212
embrocation, 208	powder, compound, 209	bolus, 213
essence, 208	tincture, 209	compound, 213
infusion, 207	concentrated, 209	collutory, 214
oil, 208	wine, compound, 210	electuary, 213
spirit, 207	Cassia, purging, 210	infusion, 214 compound, 214
water, 207 Carbolic acid, 90, 695	confection, 210 mixture, 210	injection, 214
clay, 91	pulp, 210	lozenges, 213

Catechu mixture, anti-emetic,	Cerate, savine, 505	Chiretta tincture, 222
214	simple, 216	Chloral hydrate, 222
mixture with logwood, 214	soap, 513	Chlorate of potassium, 461
pale, 212	spermaceti, 217	sodium, 545
pastilles, aromatic, 214	subacetate of lead, 445	Chloride of ammonium, 127
pills with alum, 213	sulphur, 564	antimony, 139
liquorice, 213	Cerium, 216	barium, 168
powder, compound, 213	oxalate, 216	calcium, 184
tincture, 214	pills, 217	copper and ammonium, 259
Cathartics, 71	Ceromel, 391	gold, 160
Catnep, 212	Ceruse, 447	and sodium, 160
infusion, 212	Cetrarin, 219	iron, 283
Caudle, 611	powder, 219	lead, 448
Caustic chloride of gold, 160	Cevadilla, 503	manganese, 385
potassa, 452	capuchin, 503	potassium, 461
Causties, 77	extract, 503	quinia and mercury, 337,
Cayenne pepper, 202	ointment, 503	484
cataplasm, 203	ointment, 503	pills, 337, 484
cerate, 203	powder, compound, 503	silver, 146
extract, 203	Chalk, 183	sodium, 546
gargle, 202 infusion, 202	mixture, 184	tin, 553 zinc, 586
lotion, 203	prepared, 183	Chlorinated lime, 188
lozenges, 202	Chalybeate water, artificial, 282	potassa, 453
oleo-resin, 203	Chamber utensils, 65	soda, 539
pills, 202	Chamomile, 138	Chlorine, 222, 680
syrup, 202	extract, 138	clyster, 222
tincture, 203	pills, compound, 139	collutory, 222
concentrated, 203	infusion, 138	gargle, 222
with cantharides, 203	mixture, 139	injection, 222
vinegar, 203	oleo-infusion, 139	inhalation, 223
Celandine, 219	syrup, 139	liniment, 223
extract, 219	terebinthinated oil, 139	mixture, 223
mixture, 220	German, 390	oil, 223
pills, 220	Chapman's antidyspeptic pills,	ointment, 223
Celsius's thermometer, 46	109	water, 222
Cements, 601	aperient pills, 109	Chlorodyne, 596
diamond, 349, 601	Charcoal, animal, 203	Chloroform, 223
for china, 601	ointment, 204	emulsion, 224
for the laboratory, 601	powder, 204	liniment, 224
shell lac, 367	purified, 203	ointment, 224
Centaury, 215	troches, 204	purified, 223
bitter species, 215	cataplasm, 205	spirit, 224
extract, 215	electuary, 205	tincture compound, 224
mixture, 215	lozenges, 205	water, 224 Chloroplatinate of sodium, 444
pills, 215	mineral, 205	injection of, 444
Portland powder, 215	ointment, 205	Chocolate, 610
wine, compound, 215	powder dentifrice, 204 and quassia, 204	aromatic, 180
American, 503	compound, 204	cream, 181
Centigrade thermometer, 46 Cerate, 677	suppository, 205	Iceland moss, 219
acetate of lead, 445	tooth-paste, 205	milk, 610
arsenical, 88	wood, 205	paullinia, 434
carbonate of zinc, 586	Chelsea pensioner, 563	purgative, 522
cayenne pepper, 203	Cheltenham salts, 383	salep, 181
cherry-laurel, 371	Chemical food, 296	vanilla, 180
eroton oil, 417	Cherry-laurel, 370	white, 181
eggs, 431	cerate, 371	Chrome, 695
Goulard's, 445	infusion, 370	Chromic acid, 92
Kirkland's, 596	ointment, 371	solution, 92
lead, 449	water, 370	Cider mixture, 362
mercurial, 330	lotion, 371	Cinchonia, 233
compound, 330	mixture, 371	bolus, 233
opium, 423	Chestnut leaves, 210	kinate, 233
oxide of zine and lycopo-	decoction, 210	muriate, 233
dium, 590	fluid extract, 210	nitrate, 233
Peruvian bark, 231	Chicken jelly, 610	phosphate, 233
phosphorated, 437	panada, 609	picrate, 233
pitch, 441	water, 608	pills, 233
red cedar, 363	Chinoidin, 482	sulphate, 233
red sulphuret of mercury,	Chinquapin, 211	pills, 233
345	Chiretta, 221	mixture, 233 syrup, 233
resin, 489 compound, 489	fluid extract, 221 infusion, 221	tannate, 233
	Intustoli, 221	

Cinchonia, tartrate, 233	Clysters, cubebs, 256	Colchicum mixture with squill,
tincture, 233	dandelion, 571	241
wine, 233	egg, 430	sulphate magne-
Cinnabar, 345	emollient, oil of almonds,	sium, 240
Cinnamon, 234	133	oxymel, 240
electuary, compound, 234	malt, 385	pills, 239
essence, 235	ergot, 273	compound, 239
gargle, 235	flaxseed oil, 376	Lartigue's, 239
infusion, 234	iodine, 353	syrup, 240 tincture, flowers, 239
lozenges, 234 oil, 235	laudanum, 424 and valerian, 424	root, 239
plaster, spiced, 235, 594	musk, 403	seed, 239
powder, compound, 234	olive oil, 412	ethereal, 239
saccharated, 506	opium, 424	and foxglove, 241
spirit, 235	Peruvian bark, 231	compound, 239
compound, 235	rhatany, 365	mixture, 240
syrup, 235	soap, 515	vinegar, root, 239
tincture, 234	southernwood, 151	seed, 240
compound, 235	stimulating, with nutmeg,	mixture, 241
ethereal, 235	405	wine, compound, 240
gargle, 235	sulphate of magnesium, 383	opium, 240
vinegar, compound, 234	quinia, 488	root, 239
water, 235	sodium, 549	seed, 239
spirituous, 235	tartar emetic, 144	Cold bath, 667
wine, 234	tartarized soda, 465	cream, 133, 217
compound, 234	turpentine, 571	without spermaceti,
Citrate of ammonium, 128	oil, 414	217
solution, 128	wormwood, 83	custard, 610
caffeina, 238	Coating pills, 595, 643	Collodion, 242, 315
iron, 285	Cocculus indicus, 236	carbolic, 242
and magnesium, 286	ointment, 236	flexible, 315
and quinia, 287	picrotoxin, 236	Collutory, balsam of Peru, 165
lithium, 376	Cochineal, 236	boracie acid, 90
magnesium, 382	powder, compound, 596	borax, 552
morphia, 399	tincture, 236	carbonate of potassium, 459
potassium, 462	compound, 597 with carbonate of potas-	catechu, 214
quinia, 483 Citrated effervescing powders,	sium, 236	chlorinated lime, 188
92	common salt, 236	chlorine, 222 creasote, 253
Citric acid, 92, 689	Cocoa. See CACAO.	hemlock, 245
effervescing powder, 92	Codeia, 237	lemon juice, 373
lozenges, 92	and muriate of morphia,	mastich, aromatic, 389
syrup, 92	237	myrrh, 406
Citrine ointment, 340	syrup, 237	nitric acid, 97
Clapp's pills, 336	Cod-liver oil, 410	pyroligneous acid, 88
Cleanliness in sick room, 61	compound, 411	rhatany, 365
Cloth, waxed, 216	and ether, 411	rose-water, 498
Cloves, 208	liniment, 411	sal ammoniae, 128
bag, 209	mixture, 410	soot, 302
balsam, aromatic, 209	ointment, 411	Collyrium, acetate ammonium,
cataplasm, 209	compound, 411	124
infusion, 208	pills, 411	of lead, 445
mixture, odontalgic, 208	soap, 516	of zine, 585
oil, 208	ioduretted, 516	alum, 117
plaster, 208	syrup, 411	anemone, 136
saccharated powder, 506	Coffee, 237	anodyne, 423
spirit, 208 tincture, 208	acorn, 481 decoction, 237	antimonial wine, 144 ioduretted potassium, 469
water, 208	figs, 299	borax, 543
wine, 208	milk, 610	calomel, dry, 335
Clysters, 71	syrup, 237	camphor, 195
	vinegar, 237	earbonate of potassium, 459
accuse of morphie, ore	0 1	
acetate of morphia, 399 acetic acid, 87	Colchicum, 238	caustic potassa, 452
acetic acid, 87	Colchicum, 238 extract bulb, 238	caustic potassa, 452 chloride of ammonium, 128
acetic acid, 87 anthelmintic, of aloes, 112	extract bulb, 238	chloride of ammonium, 128
acetic acid, 87 anthelmintic, of aloes, 112 assafetida, 154	extract bulb, 238 acetic, 238	chloride of ammonium, 128 barium, 168 gold, 160 corrosive sublimate, 334
acetic acid, 87 anthelmintic, of aloes, 112 assafetida, 154 belladonna, 172 bistort, 177 camphor, 194	extract bulb, 238 acetic, 238 alcoholic, 238	chloride of ammonium, 128 barium, 168 gold, 160 corrosive sublimate, 334 iodide of zinc, 588
acetic acid, 87 anthelmintic, of aloes, 112 assafetida, 154 belladonna, 172 bistort, 177 camphor, 194 castor oil, 413	extract bulb, 238 acetic, 238 alcoholic, 238 fluid, 240 juice, flowers, 241 liniment, with camphor,	chloride of ammonium, 128 barium, 168 gold, 160 corrosive sublimate, 334 iodide of zinc, 588 iodine, 352
acetic acid, 87 anthelmintic, of aloes, 112 assafetida, 154 belladonna, 172 bistort, 177 camphor, 194 castor oil, 413 chlorine, 222	extract bulb, 238 acetic, 238 alcoholic, 238 fluid, 240 juice, flowers, 241 liniment, with camphor, 241	chloride of ammonium, 128 barium, 168 gold, 160 corrosive sublimate, 334 iodide of zinc, 588 iodine, 352 nitrate of silver, 147
acetic acid, 87 anthelmintic, of aloes, 112 assafetida, 154 belladonna, 172 bistort, 177 camphor, 194 castor oil, 413 chlorine, 222 colocynth, 243	extract bulb, 238 acetic, 238 alcoholic, 238 fluid, 240 juice, flowers, 241 liniment, with camphor, 241 mixture, 241	chloride of ammonium, 128 barium, 168 gold, 160 corrosive sublimate, 334 iodide of zinc, 588 iodine, 352 nitrate of silver, 147 saffron, 254
acetic acid, 87 anthelmintic, of aloes, 112 assafetida, 154 belladonna, 172 bistort, 177 camphor, 194 castor oil, 413 chlorine, 222 colocynth, 243 common salt, 546	extract bulb, 238 acetic, 238 alcoholic, 238 fluid, 240 juice, flowers, 241 liniment, with camphor, 241 mixture, 241 with ammonia, 241	chloride of ammonium, 128 barium, 168 gold, 160 corrosive sublimate, 334 iodide of zinc, 588 iodine, 352 nitrate of silver, 147 saffron, 254 sal ammoniac, 128
acetic acid, 87 anthelmintic, of aloes, 112 assafetida, 154 belladonna, 172 bistort, 177 camphor, 194 castor oil, 413 chlorine, 222 colocynth, 243	extract bulb, 238 acetic, 238 alcoholic, 238 fluid, 240 juice, flowers, 241 liniment, with camphor, 241 mixture, 241	chloride of ammonium, 128 barium, 168 gold, 160 corrosive sublimate, 334 iodide of zinc, 588 iodine, 352 nitrate of silver, 147 saffron, 254

sium, 453

Collyrium, sulphate of copper, | Conserve of angelica, 137 Copper, sulphate, powder, compound, 260 broom, 528 styptic, 261 Cordial, Godfrey's, 428 violets, 584 zinc, 591 and camphor, 591 Contrayerva, 246 wine of opium, 423 Warner's, 494 decoction, 247 Coriander, 250 Colocynth, 242 extract, 247 clyster, 243 extract, 242 powder, compound, 250 tincture, 250 gargle, 247 mixture, 247 compound, 242 powder, compound, 246 water, compound, 250 Corpse, preservation of, 598 mixture, 243 tincture, 247 pills, and henbane, 243 compound, 247 Corrosive sublimate, 332 collyrium, 334 compound, 243 Cool bath, 668 powder, 242 Copahine-Mège, 249 injection, 334 prepared, 242 tincture, 243 Copaiba, 247 lotion, 333 boluses, 247 Bateman's, 333 clyster, 249 mixture, 244 cosmetie, 333 confection, 248 White's, 333 Cologne water, 374 emulsion, 248 injection, 248 Colombo, 190 with camphor, 333 American, 301 copper, 333 decoction, compound, 191 mixture, 248 mixture, 333 pills, 332 extract, 191 resin, 249 fluid, 191 oil, 249 compound, 332 paste, 250 pills, 247 infusion, 190 powder with copper, and ginger, 190 332 rhubarb, 190 and cubebs, 248 zine, 332 mixture, 190 cubebs and turpentine, solution, 332 alcoholie, 332 and cascarilla, 191 248 tincture, antacrid, 333 salep, 191 tincture, 249 pills, compound, 190 alkaline, 249 wash, cosmetic, 334 powder and iron, 190 yellow, 342 compound, 249 magnesia, 190 Copal varnish, 606 Cosme's arsenical powder, 88 tartrate of iron, 190 Cotton, 314 Copper, 257, 696 tincture, 191 solder for, 605 bark of root, 315 concentrated, 191 fluid extract, 315 acetate, 257 Colored fires, 603 decoction of root, 315 pills, 257 Colors for show-bottles, 601 Coltsfoot, 575 Couchgrass, 575 extract, 575 ammoniated, 259 gargle, 260 decoction, 575 injection, 259 liquid, 575 compound, 575 Court plaster, 348 ointment, 260 pills, 259 syrup, 575 Cowhage, 403 Common salt, 546 compound, 260 electuary, 403 powder, with bella-donna, 259 ointment, 403 bath, with gelatin, 546 Coxe's hive syrup, 524, 530 Cranesbill, 310 clyster, 546 with arnica, 546 solution, 259 fomentation, 546 chloride, 259 decoction, 310 mixture with lemon-juice, and ammonium, 259 extract, 310 cupreous ether, 259 fluid, 311 Koechlin's drops, 259 ointment, 546 syrup, aromatic, 310 compound, 546 Cream, almond, 133 solution, with mereury, 259 subacetate, 258 chocolate, 181 cold, 133, 217 powder, compound, 546 with cochineal, 546 balsam, Metz's, 258 without Condy's disinfecting fluid, 473 spermaceti, Confections, 646 liniment, 259 217 lotion, compound, 258 ointment, 258 of tartar, 455 soluble, 457 Confection acorns, 481 almonds, 132 Egyptian, 258 aromatic, 206 Creasote, 252 with alum, 258 collutory, 253 black pepper, 439 cassia, 216 plaster, 258 inhalation, 253 copaiba, 248 lotion, 253 powder, with savine, dog rose, 497 258 mixture, 252, 253 prepared, 258 ipecacuanha, 356 ointment, 253 opium, 421 wash, ophthalmic, 258 sulphate, 260 compound, 253 orange flowers, 159 pills, 252 peel, 157 aluminated, 260 solution, alcoholic, 252 collyrium, 261 electuary, 261 roses, 498 water, 253 rue, 502 Croton oil, 415 gargle, 261 lotion, 261 scammony, 521 bolus, 415 senna, 531 cerate, 417 injection, 261 embrocation, 417 compound, 532 Conia, embrocation, 246 emulsion, 416 ointment, 261 liniment, 417 hypodermic injection, 246 pills, 260 Conserves, 646 and opium, 260 lozenges, 416 Conserve of acetate of potascompound, 260 mixture, 416

powder, 260

ointment, 417

Croton oil pills, 415 compound, 416 with blue mass, 416 quinia, 416 plaster, 417 soap, 416 solution, saponaceous, 417 tineture, 416 Crowfoot, 489 Cubebs, 254 clyster, 256 electuary, 255 fluid extract, 256 extract, emulsion, 256 alcoholic ethereal, 256 injection, 255 lozenges, 255

Cubebs lozenges, alcoholic ethe- | real extract, 256 mixture, 256 oil and copaiba, 257 oil, 257 oleo-resin, 256 powder, 255 and alum, 255 ergot, 255 hemlock, 255 syrup, alco-ether, extract, 257 tincture, 256 ethereal, 256 Cubic nitre, 547 Cuckoo flower, 206

Cucumber, 257 ointment, 257 Culver's root, 372 Cumin, 262 plaster, 262 Cupping, 684 Curd, alum, 117 Cusso, 177 infusion, 177 Custard, cold, 610 rice, 610 Cyanide of gold, 161 mercury, 337 potassium, 462 silver, 146 zinc, 587

Dalby's carminative, 381 Dandelion, 569 clyster, 571 decoction, 569 extract, 569 fluid, 569 and senna, 570 pills, 570 with blue mass, 570 infusion, 569 compound, 569 juice, 570 mixture, 570 De Lisle's thermometer, 46 Decoctions, 648 aloes, compound, 112 arnica, 150 asparagus roots, 153 azedarach, 164 barley, 324 compound, 324 bittersweet, 269 compound, 269 black alder, 478 snakeroot, 226 blackberry root, 501 boneset, 275 brooklime, 170 broom, 528 compound, 528 burdock, 369; cabbage-tree bark, 311 cahinca, 182 cantharides in turpentine, 199 carrageen, 224 catalpa, 212 chestnut leaves, 210 coffee, raw, 237 coltsfoot, 575 compound, 575 columbo, compound, 191 contrayerva, 247 cotton-root, 315 cranesbill, 310 dandelion, 569 dock root, 502 dogwood, 251

elder bark, 509

Decoction, elecampane, 350 elm bark, 575 compound, 576 figs, 299 compound, 299 galls, 305 geranium, 310 gusiacum wood, compound, 317 hairy horehound, 164 hardhack, 164 horehound, compound, 388 horse balm, 242 horsechestnut bark, 324 compound, 324 Iceland moss, 218 Indian hemp, 145 sarsaparilla, 323 ipecacuanha, 356 Irish moss, 224 logwood, 320 madder, 501 common mallow, 385 marsh rosemary, 554 marshmallow, 114 matico, 390 mezereon, 395 compound, 396 New Jersey tea, 215 oak bark, 481 oatmeal, compound, 163 Pareira brava, 433 yellow Peruvian bark, 228 and cascarilla, 229 rhatany, 229 compound, 229 pipsissewa, 220 compound, 221 pomegranate rind, 316 root, 316 poppy heads, 432 prickly ash, 585 queen's root, 555 quince seed, 262 sarsaparilla, 516 compound, 516

Feltz's, 517 Jauperand's, 517 Decoction, sarsaparilla, nache's, 517 Zittmann's, 517 seneka, 529 soot, 301 stavesacre, 554 tormentil, 573 uva ursi, 576 water avens, 311 white hellebore, 532 wild indigo, 167 willow bark, 508 woods, 317 wormseed, 220 Delcroix's depilatory, 151 Delphinia, 263 ointment, 263 solution, 263 Demulcents, 73 Dentifrice, 602 bitartrate potassium, 455 burnt hartshorn, 251 charcoal, 204 chlorinated lime, 188 electuary, 184, 187 mastich, 389 orris root, 358 Peruvian bark, 227 phosphate of calcium, 187 rhatany, 364 sulphate of quinia, 488 tincture of myrrh and borax, 407 willow bark, 508 with carbonate of calcium, 187 Depilatories, 602 orpiment, 151

Desault's ophthalmic ointment, 343 Deshler's salve, 489 Dewberry, 501 Dewees's carminative, 156, 381 tincture of guaiacum, 319 Dextrin, 263 purified, 265 dry narcotic extracts, 263 Diachylon, 449 Diapalma plaster, 449 Diaphoretics, 73

Di-arsenite of quinia, 482 Dicas's hydrometer, 36 Dietetic preparations, 607 Diet-drink, Lisbon, 517 Diet in convalescence, 81 Digestif animé, 560 Digitalin, 267 injection hypodermic, 267 pills, 267 granules, 268 Digitalis, 264 Dill, 136 water, 136 Diluents, 74 Dinneford's fluid magnesia, 381 Dinner pills, 109 Dippel's animal oil, 409 liniment, 409 mixture, 409 tincture, 409 Disinfecting liquid of Ledoyen, Displacement, 649 Distillation, 656, 660 Distilled oils, 659 waters, 656 Dittany, 257

Dittany, infusion, 257 oil, 257 Diuretics, 74 Divine stone, 258, 260 Dock, 502 decoction, 502 Dog rose, 497 confection, 498 Dogsbane, 145 Dog's grass, 575 Dogwood, 251 decoction, 251 extract, fluid, 251 pills, 251 Jamaica, 440 round-leaved, 251 wine, 252 swamp, 251 Dolichos, 403 Donovan's solution, 151 Dose of medicine, 65 Douche, 670 Dover's powder, 354 eclectic, 429 Draughts, 655 alum, 119

Draughts, anodyne, 428 black, 533 carbonate ammonium, 126 efferveseing, 455, 462 morphia, 398 muriatic acid, 96 sal ammoniae, 128 solution, iodide of arsenic and mercury, 151 sugar of milk, 506 sulphate of potassium, effervescing, 455 Vienna, 533 Drops, 28, 666 Bateman's, 427 Battley's, 427 black, 425 carbonate ammonium, 127 carminative, 379 Koechlin's, 259 odontalgic, 421 sulphuret carbon, 565 table of, 29 toothache, 422 Dry lemonade, 92 Dupuytren's pills, 332

### E

Eau des Carmes, 393 de Dardel, 393 de Javelle, 453 de luce, 122, 561 medicinale de Husson, 239, 241, 317, 582 de Pagliari, 596 Effervescing draught, 455, 462 powders, 92, 102, 455, 540, 541 Egg, 430 cerate, 431 clyster, emollient, 430 restorative, 430 emulsion, 430 glyconin, 431 liniment, 431 mixture, 430 with brandy, 431 wine, 431 oil, 430 Eläometer, 38 Elaterin, 270 tincture, 270 Elaterium, 270 mixture, 270 oil, 270 pills, 270 Elder, 509 decoction of bark, 509 extract of berries, 509 mixture, 509 fomentation, 509 gargle, 509 ointment, 510 leaves, 509! vinegar, 509 water of flowers, 509 Elecampane, 350 decoction, 350

Elecampane, extract, 350 mixture, 350 oxymel, compound, 351 pills, compound, 350 Electuaries, 646 Electuary, alumina, 115 dentifrice, 184-187 laxative, 111 for teeth, 115 of alum, 117 angustura, 137 bitartrate of potassium, 456 black oxide of iron, 294 pepper, 439 burnt sponge, 553 calamus, 182 calomel, 337 catechu, 213 charcoal, 205 cinnamon, compound, 234 cowhage, 403 cubebs, 255 indigo, 350 jalap, 360 juniper, 362 kino, 364 lenitive, 531 logwood, extract of, 320 male fern, 300 orange leaves, 158 peel, 157 Peruvian bark, 230 astringent, 230 with catechu, 230 iron, 230 tin, 230 pomegranate root, 316 rhatany, 365

Electuary, rhubarb, 492 roses, 498 seurvy grass, 236 semen contra, 511 senna and cream of tartar, 532 figs, 532 rhubarb, 532 sulphur, 532 soap, 515 squill, 527 sulphate of copper, 261 sodium, 548 sulphur, 562, 563 compound, 562 sulphuret of potassium, 475 tamarinds, 568 tin, 553 turpentine, 571 valerian, 578 Virginia snakeroot, 535 Elemi, 271 cautery, 271 ointment, 271 plaster, 271 Elixir bismuth, citrate, 597 bitter, 395 Boerhaave's, 113 calisaya bark, 597 iron, 597 cinchona, compound, 597 and iron, 597 Clauder's, 112 French, 561 Garus's, 114, 254 gentian and iron, 309, 598 Haller's, 99 Hoffmann's visceral, 159 hops, 325 ipecacuanha, 358

Elixir, iron, citrate, 597
pyrophosphate, 597 quinia and strychnia,
558, 598
Lettsom's, 428
life, 113 liquorice, 124
Mynsicht's, 99
opium, 418
orange-peel, 158 pectoral, 124
pepsin, 597
proprietatis, 113
red, 597 sacrum, 494
salutis, 532
seammony, 522
simple, 158, 597 Stoughton's, 113
sumbul, 566, 597
valerianate of ammonium, 131, 597
and quinia, 597
vitriol, 99
Wedell's, 525 Elm bark, 575
decoction, 575
compound, 576
infusion, compound, 576 slippery, 576
cataplasm, 576
mucilage, 576
Elutriation, 640 Embrocation, caraway, 208
conia, 246
eroton oil, 417
petroleum, 435 Embrocations, 675
Emetic, tartar, 142
Emetics, 74
Emetina, 271 impure, 271
lozenges, 271
mixture, 271
pure, 271 syrup, 271
Emmenagogues, 75
Emollients, 73, 674
Emulsions, 655 almond, 133
aromatic, 133
anthelmintic, 413, 533
artificial musk, 560 bicarbonate sodium, 540
benzoin, cosmetic, 174
camphor, 193 cantharides, 197
carbonate of potassium,
459
castor-oil seed, 413 chloroform, 224
copaiba, 248
eroton oil, 416
cubebs, ethereal extract,
egg, 430
hemp seed, 196
iodoform, 354 jalap, 360
kermes mineral, 141
lupulin, 378
manna, 387 nitrated, 133, 472
opoponax, 429

```
Emulsions, purgative, 383
    sal ammoniae, 128
    scammony, 522
        compound, 522
    seneka, 530
    squill, 526
    sulphate sodium, 549
    tartar emetic, 143
    tolu, 166
    vermifuge, 414
Enemata, 71
Epispastics, 75
Epsom salts, 383
Ergot, 272
    clyster, 273
    extract, 273
         fluid, 272
         hydro-alcoholic, 273
    infusion, 272
     injection, 273
     mixture, 273
         extract, 273
     oil, 273
    pills, 273
         compound, 273
         extract, 273
     powder, compound, 273
     syrup, 272
     tincture, 272
         ethereal, 272
    wine, 272
Ergotin, 273
     mixture, 273
     pills, 273
Errhine, alum, 116
     euphorbium, 276
Errhines, 77
Escharotics, 77
Essences, 666
Essence of allspice, 439
     angelica, 137
     anise, 138
     beef, 608
     caraway, 208
     cinnamon, 235
     fennel, 301
     ginger, 594
     lavender, compound, 372
     lemon, 372
     nutmeg, 405
     peppermint, 393
     roses, 498
     sarsaparilla, 518
         compound, 518
     soap, 515
         camphorated, 515
     spearmint, 394
     vanilla, 580
     Ward's, for headache, 194
Essential oils, 659
Ether, acetic, 104
         mixture, 105
         spirit, 105
     cantharidal, 198
     chlorated spirit, 105
     chloric, 324
     cupreous, 259
     hydrocyanic, 105
     hyponitrous, 552
     muriatic, 105
         mixture, 105
         spirit, 105
     nitrous, 552
         sweet spirit, 552
```

```
Ether, nitrous, sweet spirit,
       mixture, 552
    phosphorated, 437
    sulphurie, 105
         ethereal oil, 106
         Hoffmann's anodyne,
           106
         lotion, 106
         mixture with camphor,
              turpentine, 106
         spirit, 106
         syrup, 106
     terebinthinated, 106
Ethereal oil, 106
Ethiops mineral, 344
Eucalyptus, 275
     extract, 275
     infusion, 275
     syrup, 275
     tincture, 275
Euphorbium, 276
     oil, 277
     plaster, 277
     sternutatory, 276
     tincture, 277
Evacuations, utensils for, 65
Examination of excretions, 63
Exercise in convalescence, 81
Expectorants, 78
Extracts, 644
Extract of aconite, 102
     aloes, 111
     American centaury, 504
         hellebore, 583
         hemp, 196
     anemone, 136
     arnica, 149
     asparagus roots, 153
         shoots, 153
     belladonna, 171
         alcoholic, 171
     bistort, 177
     bittersweet, 269
     black hellebore, 321
         alcoholic, 322
     black snakeroot, 226
     broom, 528
     buchu, 179
     buckbean, 395
     buckthorn, 490
     butternut, 361
     cabbage-tree bark, 311
     cahinca, 182
     Calabar bean, 537
     calamus, 183
     Canada fleabane, 274
     cantharides, 199
         ethereal, 199
     cardamom, 206
     carrot root, 207
cascarilla, 209
     cayenne pepper, 203
     celandine, 219
     centaury, 215
cevadilla, 503
     chamomile, 138
     colchicum bulb, 238
              acetic, 238
     colocynth, 242
         compound, 242
     columbo, 191
     contrayerva, 247
     cubebs, 256
```

Extract of cubebs, alcoholic- | Extract of lettuce, 368 ethereal, 256 dandelion, 569 elder berries, 509 elecampane, 350 ergot, 273 eucalyptus, 275 fever-root, 575 foxglove, 264 galls, 305 gentian, 308 geranium, 310 Goulard's, 445 guaiacum wood, 317 hardhack, 552 hemlock, 244 alcoholic, 244 hemp, 196 purified, 196 henbane, alcoholic, 346 aqueous, 346 hops, 325 horehound, 388 horse-chestnut, 324 ignatia, 349 Indian hemp, 145 ipecacuanha, 355 jalap, 359 alkaline, 360 juniper, 362

liquorice, 313 lobelia, acetic, 377 logwood, 370 lupulin, 378 malt, 384 marigold, 189 matico, 390 may apple, 451 mezereon, 396 myrrh, 406 nux vomica, 408 aqueous, 408 oak bark, 481 opium, acetous, 418 alcoholic, 418 aqueo-alcoholic, 418 aqueous, 418 by fermentation, 418 denarcotized, 418 roasted, 418 vinous, 418 pareira brava, 433 paullinia, alcoholic, 434 pellitory, 479 Peruvian bark, 228 aqueous, 227 precipitated, 228 vinous, 227

Extract of pinkroot, com-pound, 551 pipsissewa, 221 poison oak, 573 pomegranate-root, 316 poppy heads, 432 quassia, 480 rhatany, 364 rhubarb, 493 rue, 502 sarsaparilla, 518 savine, 504 seneka, 530 senna, alcoholic, 531 squill, 527 acetic, 527 stramonium leaves, 555 seed, 555 succory, 225 tansy, 568 tobacco, 566 tormentil, 573 uva ursi, 576 valerian, 579 willow bark, 508 wood sorrel, 85 wormwood, 83 yellow root, 585 Eyebright, 277

# В

Fahrenheit's hydrometer, 33 thermometer, 46 False sarsaparilla, 145 Fats, 665 Felt splints, 605 Fennel, 300 essence, 301 infusion, 300 oil, 301 ointment, 301 powder, compound, 300 water, 300 Fern, male, 299 bolus, 299 electuary, 300 extract, ethereal, 300 pills, 300 jelly, 300 mixture, 300 oleo-resin, 300 pills, 300 powder, 299 Ferrocyanate of quinia, 483 Ferrocyanide of iron, 288 zine, 587 Ferro-sulphuret of potassium, 475 Fever-root, 574 extract, 575 Fever tree, 275 Figs, 299 coffee, 299 decoction, 299 compound, 299 gargle, 299 paste, 299 Figwort, 528 ointment, 528

Figwort oleo-infusion, 528 Filter, Boullay's, 650 Fires, colored, 603 Fixed oils, 665 Flaxseed, 375 cataplasm, 375 with bran, 375 charcoal, 375 clyster of oil, 376 infusion, compound, 375 meal, cataplasm, 375 compound, 375 mixture, 375 mucilage, 375 Fleabane, 274 Canada, 274 extract, 274 fluid extract, 274 infusion, 274 oil, 274 mixture, 274 Fleming's tincture of aconite, 595 Flies, Spanish, 197 Florentine orris, 358 Flour, boiled, 608 Fluid extract of American hellebore, 583 belladonna, 172 bittersweet, 269 blackberry, 501 black snakeroot, 226 buchu, 179 calamus, 183 Canada erigeron, 274 chestnut leaves, 210 chiretta, 221

colchicum root, 240

Fluid extract of colchicum seed, cotton root, 315 couch grass, 575 crane's bill, 311 cubebs, 256 dandelion, 569 and senna, 570 digitalis, 265 dogwood, 251 ergot, 272 gentian, 308 ginger, 593 henbane, 346 hops, 325 hydrastis, 346 ipecacuanha, 356 ladies' slipper, 262 liquorice root, 314 lobelia, 377 lupulin, 378 matico, 390 mezereon, 395 opium, 418 pareira, 433 Peruvian bark, 229 pinkroot, 551 and senna, 552 compound, 552 rhubarb, 493 and senna, 493 sarsaparilla, 518 compound, 518 savine, 505 senega, 529 senna, 534 squill, 527 stillingia, 555

Fluid extract of sumach, 496 sumbul, 566 uva ursi, 577 valerian, 579 vanilla, 580 Virginia snakeroot, 535 wild cherry, 479 yellow jasmine, 307 Flummery of oatmeal, 163 Fomentations, 673 Fomentation, arnica, 149 with rue, 150 aromatic, 499 carbonate of potassium, 459 common salt, 546 nitrie acid, 97 opium, 424 phosphoric acid, 98 sal ammoniae, 127 sulphate of zine, 591

Fomentation, wine of opium, | Foxglove plaster, 267 Foreign weights, 21 Fowl, with rice, 609 Fowler's solution, 454 mixture, 454 iodine and arsenic, 454, 595 Foxglove, 264 bolus, 264 extract, 264 alcoholie, 264 fluid, 265 infusion, 265 mixture, expectorant, 266 with acetate of lead, 266 with acetate of potassium, 265 with tartarie acid, 266 ointment, 266 pills, 265 and squill, 265

powder, 264 saccharated, 506 syrup, 267 tineture, 266 ethereal, 266 mixture, 266 vinegar, 266 wine, 266 Frankincense, 441 Frictions, 675 Frostweed, 321 Frumenty, 610 Fuligokali, 302 ointment, 302 sulphuretted, 302 pills, 302 Fumigations, 680 Fumigation with belladonna, 171 Furniture of sick room, 63 varnish, 606

Galbanum, 303 mixture, 303 pills, compound, 303 plaster, 303 compound, 304 saffron, 304 purified, 303 tincture, 303 compound, 303 Gall, ox, 277 Gallate of iron, 288 Gallie acid, 92 glycerite, 93 injection, 93 mixture, 93 pills, 93 syrup, aromatic, 93 Galls, 304 decoction, 305 extract, 305 ointment, 305 gargle, 305 infusion, 305 compound, 305 lotion, 305 ointment, 306 compound, 305 powder, compound, 304 syrup, aromatic, 305 tincture, 305 Gambir, 212 Gamboge, 306 mixture, 306 with elaterin, 307 pills, compound, 306 powder, compound, 306 solution, alkaline, 306 tincture, alkaline, 307 ammoniacal, 307 Gannal's injection, 598 Gargle, ammonia, 122 acetate of ammonium, 125 lead, 445 alum, 118 ammoniated copper, 260 borax, 543

Gargle, carbolic acid, 91 cayenne pepper, 202 chlorate of sodium, 546 chlorinated soda, 539 chlorine, 222 cinnamon, tincture, 235 contrayerva, 247 cyanide of mercury, 338 elder flowers, 509 figs, 299 galls, 305 iodine, 353 mercurial, 327 muriatic acid, 96 mustard, 537 myrrh, 406 nitrate of potassium, 472 oak bark, 481 Peruvian bark, 232 pomegranate rind, 316 sage, 509 seurvy grass, 237 subacetate of lead, 445 sulphate of copper, 261 quinia, 488 zinc, 591 tannie acid, 101 tormentil, 573 vinegar, 86 Garlie, 107 cataplasm, 107 liniment, 107 lotion, capillary, 107 syrup, 107 Gaulthier's plaster, 449 Gay Lussac's alcoomètre, 33 Gentian, 308 elixir, ferrated, 309 extract, 308 fluid, 308 syrup, 309 infusion, 308 compound, 308 concentrated, 309 with rhubarb, 309 mixture, 309

Gentian mixture, sulphuric acid, 310 pills, compound, 308 powder, compound, 308 syrup, 309 tincture, 310 acidulated, 310 alkaline, 310 ammoniacal, 310 compound, 310 mixture, 310 with sulphuric acid, 310 wine, 309 compound, 309 German chamomile, 390 infusion, 391 oleo-infusion, 391 syrup, 390 water, 391 German pills, 360 Ginger, 593 beer, 593, 610 powders, 541 essence, 594 extract, fluid, 593 infusion, 593 lozenges, 593 oil, 594 oleo-resin, 594 syrup, 594 spice plaster, 594 syrup, 593 tincture, 594 strong, 593 Ginseng, 431 Glass, soluble, 473 Glauber's salts, 548 Gloucester jelly, 607 Glue, liquid, 603 marine, 603 Glycamyl, 313 Glycerin, 312 lotion, 312 ointment, 312 paste, 312 starch, 312

Glycerite of borax, 543 calabar bean, 438 carbolic acid, 90 gallie acid, 93 hydrocyanic acid, 94 iodide of ammonium, 129 pancreatin, 432 starch, 312 tannin, 100 tar, 442 Goadby's solutions, 599 Godfrey's cordial, 428 Gold, 159 ointment, 160 powder, 159 syrup, 160 solder for, 605 ammoniated, 162 pills, 162 chloride, 160 bolus, 160 caustic, 160 collyrium, 160 ointment, 160 pills, 160 powder, 160 tincture, 160 with sodium, 160 lozenges, 161 ointment, 161 pills, 161 powder, 161 solution, 161 syrup, 161 compound, 161 cyanide, 161 lozenges, 162 pills, 162

Gold cyanide powder, 162 solution, 162 iodide, 162 oxide, 162 pills, 162 powder, 162 purple of Cassius, 163 Golden rod, 550 sulphuret of antimony, 441 Goldthread, 250 infusion, 250 tincture, 250 Gondret's ointment, 122 Goulard's balsam, 445 cerate, 445 extract, 445 Gouttes amères, 350 Grains de santé, 111 Granulation, 640 Granules of digitalin, 268 Granville's lotion, 122 Gravity, specific, 31 Grease balls, 514 Griffith's mixture, 282 pills, 282 Griffitt's pills, 492 Groat gruel, 163 Gruel, oatmeal, 163 rice, 430 Guaiacum, 317 decoction, compound, 317 extract, 317 mixture, 318 with bittersweet, 318 oil, 317 compound, 317 pills with aloes, 318 antimony, 318

318 turpentine, 318 tartar emetic, 143 powder, compound, 317 tincture, 318 ammoniated, 319 Dewees's, 319 and corrosive sublimate, 319 copaiba, 319 paregorie, 319 mixture, odontalgie, 319 with henbane, 319 wood-tea, 317 Guarana, 434 Gum Arabic, 84 linetus, 85 lozenges, 84 mixture, 84 Wendt's, 85 mucilage, 84 paste, 85 pectoral, 84 pate de guimauve, 85 powder, compound, 84 syrup, 85 compound, 85 mucilage, 574 paste, 574 powder, compound, 574 starch, 263 tragacanth, 574 Gun cotton, soluble, 315 Gutta percha, 319 solution, 319

Guaiacum pills with sulphur,

# H

Hair dye, 147 Hairy horehound, 164 decoction, 164 Haller's elixir, 99 Hardhack, 552 decoction, 552 extract, 552 Hartshorn, 251 burnt, 251 dentifrice, 251 jelly, 251 compound, 251 Hebra's lead ointment, 449 Hedge hyssop, 316 extract, 317 powder, compound, 317 wine, 317 Heinecke's solution, 540 Hellebore, American, 583 black, 321 white, 582 Hellmund's nartico-balsamic ointment, 245 Hemlock, 244 cataplasm, 246 collutory, 245 extract, 244 alcoholic, 244

Hemlock, infusion, 245 juice, 245 mixture, with paregoric, 246 oleo-infusion, 245 ointment, 245 compound balsamie, 245 pills with calomel, 244 dandelion, 244 ipecacuanha, 244 pitch, 442 plaster, 245 compound, 246 powder, 244 saccharated, 506 suppository, 246 tincture, 245 ethereal, 245 Hemp, 196 emulsion, 196 extract, 196 purified, 196 resin, 196 tincture, 196 Indian, 196 Henbane, 346 extract, alcoholic, 346 aqueous, 346

Henbane, extract, fluid, 346 infusion, 347 compound, 347 liniment, 348 mixture, 347 with antimony, 347 squill, 348 ointment, 348 compound, 348 oleo infusion, 348 pills, compound, 347 and ipecacuanha, 347 opium, 347 plaster, 348 poultice, anodyne, 348 powder, compound, 347 saccharated, 506 tincture, 347 ethereal, 348 Henry's aromatic spirit of vinegar, 87 Hiera piera, 108, 196 tincture, 196 Hive syrup, Coxe's, 524, 530 Hoffmann's anodyne, 106 balsam of life, 165 visceral elixir, 159 Holly, sea, 274 Honeys, 391, 647

Honeys, borax, 543
clarified, 391
ceromel, 391
hydromel, 391
mixture, expectorant, 391
oxymel, 391
pectoral, 391
prepared, 391
water, 391
roses, 498
violets, 584
Hooper's pills, 109, 298
Hope's mixture, 192
Hops, 325
cataplasm, 326
elixir, 325
extract, 325
fluid, 325
infusion, 325
mixture, 325
ointment, 326
tincture, 325
alkaline, 325
Horehound, 388
eandy, 389
decoction, compound, 388
extract; 388
hairy, 164
mixture, pectoral, 389
syrup, 389
Horse balm, 241
decoction, 242
12 010

oil, 242 tincture, 242

```
Horse chestnut, 323
        decoction, 324
             compound, 324
        extract, 324
        powder,
                    compound,
           323
Horsemint, 396
    liniment, 396
    oil, 396
Horseradish, 148
    cataplasm, compound, 149
    infusion, 148
        compound, 149
    mixture, 149
    syrup, compound, 148
    tincture, compound, 148
    wine, compound, 149
Hot bath, 669
Hundred-leaved rose, 497
Hungary water, 500
Husson's medicinal water, 239,
  241
Huxham's tineture, 230
Hydrargyro-iodide of potass-
 ium, 470
Hydrated oxide of iron, 293
Hydriodate of morphia, 400
    quinia, 483
        ioduretted, 483
Hydriodic acid, 94
Hydrochloric acid, 96, 689
Hydrocyanic acid, 93, 689
        extemporaneous, 93
```

Hydrocyanic acid, glycerite, 94 injection, 94 inhalation, 94 julep, 94 lotion, 94 mixture, 93 syrup, 94 ether, 105 Hydromel, 391 pectoral, 391 Hydrometers, 33 Hydrometrical equivalents, 40 Hydrosulphate of ammonium, 130 sulphuretted, 130 Hydrosulphuric acid. 94 artificial sulphuretted water, 95 bath, hydrosulphuretted, 95 lotion, hydrosulphuretted, 95 Hypodermic injection of caffeina, 238 calabar bean, 438 conia, 246 digitalin, 267 morphia, 400, 402 strychnia, 559 Hypophosphites, 185 Hyposulphited sulphuret of potassium, 474 Hyposulphite of sodium, 547

### Ι

Iceland moss, 218 cetrarin, 219 powder, 219 chocolate, 219 decoction, 218 deprived of bitterness, 218 jelly, bitter, 219 dry, 218 sweet, 219 mixture, 219 troches, 219 Idiosyncrasy, 67 Ignatia, 349 extract, 349 tincture, 349 alkaline, 350 Imperial drink, 457 measure, 27 value in wine measure, Incompatibles, table of, 612 Indelible inks, 604 Indian hemp, 145 decoction, 145 extract, 145 physic, 312 sarsaparilla, 322 decoction, 323 infusion, 323 mixture, 323 syrup, 322 tobacco, 376 turnip, 152

Indigo, 350 electuary, 350 pills, 350 powder, 350 sulphate, 350 wild, 167 decoction, 167 ointment, 167 Infusions, 647 Infusion, American centaury, 504 columbo, 301 senna, 210 angustura, 137 arnica, 149 compound, 149 balm, 392 barberry, 175 belladonna, 171 benne, 536 bistort, 177 bittersweet, 269 black purslane, 276 blessed thistle, 215 bloodroot, 510 boneset, 275 compound, 275 buchu, 179 compound, 179 buckbean, 395 burdock, 369 calamus, 182 camphor, 193 Canada fleabane, 274

Infusion, cantharides, 197 acetic, 197 caraway, 207 carrot fruit, 207 cascarilla, 209 alkaline, 209 catechu, 214 compound, 214 catnep, 212 Cayenne pepper, 202 chamomile, 138 cherry-laurel, 370 chiretta, 221 cinnamon, 334 cloves, 208 columbo, 190 with ginger, 190 rhubarb, 190 cusso, 177 dandelion, 569 dittany, 257 elm bark, 576 ergot, 272 eucalyptus, 275 fennel, 300 flaxseed, 375 fleabane, 274 foxglove, 265 galls, 305 compound, 305 gentian, 308 compound, 308 with rhubarb, 309 German chamomile, 391

Infusion, ginger, 593	Infusion, southernwood, 151	Injection, tannic acid, 101
goldthread, 250	succory, 225	Ink, anilin, 604
hemlock, 245	tamarinds, 568	blue, 604
henbane, 347	tansy, 568	indelible, 604
compound, 347	tobacco, 567	without mordant, 147
hops, 325	tulip-tree bark, 376	red, 604
horseradish, 148	valerian, 578	
compound, 149		writing, 603
Indian sarsaparilla, 323	Virginia analyses 525	Inspissated juices, 644
	Virginia snakeroot, 535	Intervals between doses, 68
iron, bitter, 292	compound, 536	Iodate of potassium, 465
juniper, 362	with ether, 536	strychnia, 558
compound, 362	yellow ladies' bedstraw,	Iodide of arsenic, 150
kino, 364	304	and mercury, 151
linden flowers, 573	yellow root, 585	barium, 168
compound, 573	wild cherry bark, 478	gold, 162
lobelia, 377	ginger, 152	iron, 289
maidenhair, 104	wormwood, 83	lead, 448
malt, 384	Inhalations, 667	manganese, 385
marigold, 189	Inhalation, balsam of tolu, 167	mercury, green, 339
matico, 390	of carbolic acid, 90	red, 338
compound, 390	chlorine, 223	potassium, 466
mayweed, 252	conia, 245	quinia, 483
mint, 394	creasote, 253	silver, 146
compound, 394	hydrocyanic acid, 94	starch, 135
mudar, 189	iodine, 352	sulphur, 565
orange-peel, compound,	tannin, 101	zine, 588
158	Injections, anatomical, 598	Iodine, 351, 696
pareira brava, 433	chloride of zinc, 598	and tannin, syrup, 353
parsley-root, 436	Gannal's, 598	bath, 352
pennyroyal, 321	molasses, 598	The state of the s
persimmon bark, 268	nitrate of lead, 598	cataplasm, 353 clyster, 353
Peruvian bark, 229	Injection, acetate of lead, 446	collyrium, 352
compound, 229	acetate of zinc, 586	gargle, 353
with cantharides,	aloes, 112	
229	alum, 118	inhalation, 352
magnesia, 229	ammonia, 122	liniment, 352, 353 lotion, 352
serpentaria,	ammoniated copper, 259.	1
229		mixture, 352
pinkroot, 551	carbonate of sodium, 545	with iodide of potas-
compound, 551	catechu, 214	sium, 352
pleurisy-root, 152	caustic potassa, 452	ointment, 353
quassia, 480	chloride of zinc, 587 chlorinated lime, com-	compound, 353
compound, 480	pound, 188	with mercury, 353
red poppy, 496	soda, 539	oil of tobacco, 353
compound, 496	chlorine, 222	pills, 351
rhatany, 365	chloroplatinate of sodium,	plaster, 352
rhubarb, 492		solution, 352
	444	compound, 352
alkaline, 492	copaiba, 248	tincture, 351
roses, acid, 498	corrosive sublimate, 334	compound, 351
safflower, 207	cubebs, 255	decolorized, 351
saffron, 254	detersive, 112	ethereal, 351
sage, 508	ergot, 273	saturated, 351
compound, 508	gallic acid, 93	Iodoform, 354
sarsaparilla, 516	hydrocyanic acid, 94	ointment, 354
alkaline, 516	iodide of iron, 291	saponated emulsion, 354
sassafras bark, 520	potassium, 466	suppositories, 354
compound, 520	kino, 364	Ioduretted potassium, 468
pith, 520	kousso, 177	Ipecacuanha, 354
savine, 504	morphia, 398	bolus, 355
seneka, 529	nutritive, 432	confection, 356
compound, 529	opium, 424	decoction, 356
senna, 533	pancreatin, 432	elixir, 358
black draught, 533	pomegranate rind, 316	extract, 355
compound, 533	pyroligneous acid, 88	fluid, 356
with buckthorn, 533	rhatany, 365	lozenges, 356
coffee, 533	sedative, 433	and camphor, 356
lemon juice, 534	soot, 302	mixture, 357
rhubarb, 534	stimulating, 406	pills, with centaury, 356
tamarinds, 533	subacetate of lead, 446	foxglove, 356
tincture of senna,	and lime water, 446	opium, 356
533	sulphate of copper, 261	squill, 356
simaruba, 536	iron, 298	powder, compound, 354
compound, 537	zinc, 592	with antimony, 355
skunk cabbage, 268	sulphuret of potassium, 476	benzoic acid, 89

Ipecacuanha powder, with calo-	Iron, chloride, ethereal tinc-	Iron, oxide, black, electuary,
mel, 355	ture, 284	294
earb. sodium, 355	citrate, 285	pills, 294
chloride ammo-	ammonio-, 285	powder, 294
nium, 355 myrrh, 355	and magnesium, 286 syrup, 286	hydrated, 293 red, 294
nitre, 355	quinia, 287	plaster, 294
opium, 354	wine, 287	soluble saccharated,
rhubarb, 355	strychnia, 288	293
tartar emetic, 355	liquid, 285	syrup, 294
tragacanth, 355	syrup, 285	persulphate, 295
saccharated, 506	tineture, 285	phosphate, 295
syrup, 357	wine, 285	compound syrup, 295
compound, 357 tincture, 358	and beef, 285 aromatic, 285	ointment, 296 pills, 295
wild, 276	sweet, 285	syrup, 296
powder, 276	ferrocyanide, blue ink, 288,	protochloride, 284
wine, 358	604	liquid, 284
alkaline, 358	mixture, 288	tincture, 284
compound, 358	ointment, 288	pyrophosphate, 296
with tartar emetic, 358	pills, 288	and sodium, 296
Iris, Florentine, 358	powder, 288	syrup, 296
Irish moss, 224 Iron, 277, 697	compound, 288 Prussian blue, 288	subcarbonate, 281 lozenges, 282
filings, 277	gallate, 288	mixture, 282
mixture, compound, 282	writing ink, 288	pills, comp., 282
powder, 278	hypophosphite, 185	plaster, 283
preparations of, 605	iodide, 289	powder, 282
solder for, 605	bath, 291	wine, 283
wire, 278	injection, 291	subsulphate, solution, 295
acetate, 279	lozenges, 289	sulphate, 297
and aluminum, 279 solution, 279	mixture, 291 ointment, 291	and ammonium, 286 dried, 297
tincture, alcoholic, 279	pills, 289	injection, 298
ethereal, 279	saccharate, 289	mixtures, 298
ammoniated, 279	solution, 290	pills, 297
bolus, 280	syrup, 290	Blaud's, 297
mixture, 380	and chloride of	compound, 297
pills, 280	iron, 291	with rhubarb, 297
powder, compound, 280	mixture, 291 tincture, 290	powder, 297
arseniate, 280 ointment, 280	wine, 290	solution, 298 syrup, 298
pills, 280	lactate, 291	tersulphate, solution, 295
bromide, 280	lozenges, 291	sulphuret, 298
ointment, 281	pills, 292	tannate, 298
pills, 281	syrup, 292	tartrate and potassium, 286
syrup, 280	malate, 292	powder and colombo,
carbonate, 281 artificial chalybeate	bitter infusion, 292	286
artificial chalybeate water, 282	extract, 292 mixture, 292	effervescent, 287 solution, 287
mixture, comp., 282	solution, 292	syrup, 287
pills, 281	tincture, 292	tincture, compound,
powder, effervescent,	metallic, prepared, 278	287
281	bolus, 278	wine, 287
saccharated, 281	mixture, 279	compound, 287
carburet, 283	pills, 278	ammonium, 286
mixture, 283	powder, 278	solution, 286
ointment, 283 pills, 283	compound, 278 reduced, 278	valerianate, 299 wine, bitter, 598
prepared, 283	lozenges, 279	Irritants, 700
chloride, 283	wine, 279	Isinglass, 348
and acetate of lead, 283	nitrate, 292	blanc mange, 611
mixture, 284	pernitrate, solution, 292	court plaster, 348
solution, 283	protonitrate, syrup, 292	diamond cement, 349
syrup, 284	oxalate, 293	Issues, 676
tincture, 284	oxide, black, 294	ointment, 201

### J

Jackson's pectoral lozenges, 596 syrup, 85, 596 Jalap, 359 electuary, 360 emulsion, 360 extract, 359 alkaline, 360 mixture, 361 pills, 360 compound, 360 with calomel, 360 powder, compound, 359 saccharated, 506 with calomel, 259 cream of tartar, 359 ipecacuanha, 359 scammony, 359 resin, 360 tincture, 361 soap, 360 tincture, 361

Jalap, tincture, compound, 361 mixture, 361 Jamaica dogwood, 440 tincture, 440 pepper, 438 James' powder, 140 Jamestown weed, 555 Japan varnish, 606 Jelly, almond, 608 biscuit, 607 bread, 607 calves' feet, 608 carrageen, 225 chicken, 610 Gloucester, 607 hartshorn, 251 compound, 251 Iceland moss, 219 male fern, 300 orange leaves, 159 pectoral, 530 rice, 430

Jelly, starch, 135 tapioca, 569 Juices, inspissated, 644 Juice of broom, 528 colchicum, 241 dandelion, 570 hemlock, 245 liquorice, purified, 313 Julep, alum, 118 hydrocyanic acid, 94 Juniper, 361 cade, 363 tincture, with soft soap, electuary, 362 extract, 362 infusion, 362 compound, 362 liniment, 363 mixture of oil, 362 spirit, 362 compound, 362

### K

Kaiser pills, 360
Kamala, 500
tincture, 500
Kentish ointment, 415
Kermes mineral, 141
lozenges, 141
Kermesine powder, 141
Keyser's pills, 331

Kinate of cinchonia, 233 quinia, 484 Kino, 363 Botany Bay, 275 electuary, 364 infusion, 364 injection, 364 Kino pills, compound, 364
powder, compound, 363
syrup, 364
tincture, 364
Kirkland's neutral cerate, 596
Kousso, 177
infusion, 177

# L

Labarraque's solution, 539 Lac, 367 bleached, 367 cement, 367 sealing wax, 367 solution, aqueous, 367 varnish, 606 Lactate of iron, 291 quinia, 484 Lactic acid, 95 inhalation, 96 lemonade, 96 lozenges, 95 Lactophosphate of calcium, 183, 187 Lactucarium, 368 lozenges, 369 mixture, 368 pills, 368 syrup, 368 tincture, 369 Ladies' bedstraw, yellow, 304 infusion, 304 wine, 304 slipper, 262 fluid extract, 262

Lady Webster's pills, 109 Lancaster black drop, 425 Lard, benzoinated, 173 Larkspur, 263 tincture, 263 Lartigue's pills, 239 Laudanum, 426 Smith's, 427 Swediaur's, 428 Sydenham's, 426 Laurel, 370 oil, 370 ointment, 370 cherry, 367 Lavender, 371 essence, compound, 372 ointment, 372 powder, compound, 371 spirit, 371 compound, 372 tincture, ethereal, 372 water, 371 Lead, 444, 697 solder for, 605 acetate, 444 cataplasm, 446

Lead, acetate, cerate, 445 gargle, 445 Goulard's balsam, 445 injection, 446 lotion, 446 mixture, 445 ointment, 447 pile, 446 paste, rubefacient, 445 pills, 444 plaster, 447 powder, 444 suppositories, 446 carbonate, 447 ointment, 447 camphorated, 447 plaster, 448 powder, camphorated, 447 chloride, 448 lotion, 448 ointment, 448 iodide, 448 ointment, 448 pills, 448 plaster, 448

Lead, iodide, powder, 448
litharge, 449
eataplasm, 449
cerate, 449
ointment, 449
Banyer's, 449
compound, 449
plaster, 449
Baynton's, 449
diapalma, 449
Gaulthier's, 449
nitrate, 448 glycerite, 448
injection, 598
solution, Ledoyen's,
448
red, 450
plaster, black, 450
Nuremberg, 450
saccharate, 450
nitro-, 450
solution, 450
subacetate, 445
cataplasm, 446
cerate, 445
collyrium, 445
gargle, 445
Goulard's vegeto-min-
eral water, 445
injection, 446
with lime, 446
liniment, 446
ointment, 447
plaster, 447
solution, 445
tannate, 450
liniment, 450
ointment, 450 Leather wood, 268
varnish for, 605
Ledoyen's disinfecting fluid,448
Leeching, 685
Lemon, 372
collutory of juice, 373
Cologne water, 374
essence, 372
juice, artificial, 92
lozenges of juice, 373
oil, 373
spirit, 372
distilled, 373
odoriferous, 374
syrup, 373
peel, 373
vinous, of peel, 374
tincture, 373
water of peel, 373
unparalleled, 375
Lemonade, 373
barberries, 174
compound, 373
dry, 92
lactic acid, 96 phosphoric acid, 99
sulphuric acid, 99
tartaric acid, 101
with sulphate of sodium, 549
Lenitive electuary, 531
Lettsom's elixir, 428
Lettuce, 368
wild, 368
extract, 368
lactucarium, 368
lozenges, 369

```
Lettuce, lactucarium, mixture, | Liniment, cantharides, 199
                368
             pills, 368
             syrup, 368
                 alkaline, 368
                       opium,
                 and
                   369
             tincture, 369
        thridace, 368
             mixture, 369
             powder, 369
syrup, 368
    mixture, with dandelion,
      368
    syrup, 369
    tincture, aromatic, 369
    water, 369
        mixture, 369
Lignum vitæ, 317
Lime, 185
    chlorinated, 188
         collutory, 188
         dentifrice, 188
         injection, compound,
           188
        liniment, 189
         lozenges, 188
        ointment, 188
        preservative liquid, 188
        solution, 188
    ointment, 186
    solution, saccharated, 186
    water, 185
         compound, 186
         and carbonate of po-
               tassium, 186
             milk, 186
        liniment, 186
             with alcohol, 186
                 oil, 186
                 opium, 186
                 sulphur, 186
        mixture, antacid, 186
Linetus, gum Arabic, 85
    green, 133
    opiate, 424, 428
    opium, 424
    sulphur, 563
    white, 133
Linden, 572
    infusion, 573
        compound, 573
    water, 573
Liniments, 675
Liniment, acetate of mercury,
      331
    aconite root, 103
    alum, 118
    amber oil, 561
    ammonia, 121
        camphorated, 127
        compound, 121
        sulphuretted, 123
        terebinthinate, 123
    barytic, 169
    belladonna, 172
    borax, 543
    cajeput oil, 410
    camphor, 194
        compound, 195
         ethereal, 194
         turpentine, 194
         with vinegar, 194
```

camphorated soap, 514

```
aromatic, 201
    soap, 199
    stimulating, 201
    with camphor, 199
carbolic acid, 91
carbonate of potassium,
      376
    ammonium, 127
for chilblains, 164
chlorinated lime, 189
chlorine, 223
chloroform, 224
    and aconite, 224
cod-liver oil, 411
colchicum and camphor,
  241
cosmetic, 134
eroton oil, 417
Dippel's oil, 409
eggs, 431
for milk abscess, 446
   sore breasts, 186
garlie, 107
henbane, 348
horsemint, 396
hydrosulphate ammonia,
iodide of ammonium, 129
    potassium, 467
iodine, 352, 353
juniper, 363
laudanum and lime water,
lime and sulphur, 186
    water and alcohol, 186
               oil, 186
               opium, 186
marigold, 189
mercurial, compound, 330
    opiated, 330
mercury and chalk, 327
muriatic acid, 96
mustard, 538
nitrate of mercury, 340
nitric acid, 97
opiate, 422
opium, 422
    with oil of chamomile,
      423
pellitory, 479
phosphorated, 437
sal ammoniae, 128
soap, 514
spermaceti, 218
strychnia, 558
subacetate of lead, 446
succinate of ammonium,
sulphate of quinia, 487
sulphur and soap, 564
sulphuret of calcium, 188
    carbon, 565
    sodium, 550
sulphuric acid, 100
tannate of lead, 450
tartar emetic, ammoniacal,
  144
turpentine, 571
    acetic, 415
    oil, 415
    opiated, 415
    sulphuric, 413
veratria, 581
```

Liniment, verdigris, 259 Wilkinson's, 130 Lip salve, 216, 218 Liquid glue, 603 Liquorice root, 313 elixir, 124 extract, 313 fluid, 314 refined, 313 lozenges, 313 with opium, 313 mixture, 314 compound, 314 paste, 313 powder, compound, 314 syrup, 314, 598 compound, 314 Lisbon diet drink, 517 List of incompatibles, 612 Litharge, 449 Lithontriptics, 70 Liver of sulphur, 474 Liverwort, 323 Lobelia, 376 extract, acetic, 377 fluid, 377 infusion, 377 mixture, 377 syrup, 377 tincture, 377 ethereal, 377 vinegar, 377 Local baths, 670 Locatelli's balsam, 165 Lockstadt's pills, 134 Logwood, 320 decoction, 320 extract, 320 electuary, 320 mixture, 320 infusion, 320 Long pepper, 440 cataplasm, 440 Lotions, 675 Lotion, alkaline, 459 anti-rheumatic, 556 Barlow's, 476 Bateman's, 333 capillary, 107 for burns, 174 chilblains, 164, 413 hiceough, 124 toothache, 414 Granville's, 122 Goulard's, 132 hydrosulphuretted, 95 mammillary, 164 mercurial, 327 Saviard's, 452 acetate of lead, 446 zine, 586 aconitia, 104 almond, compound, 132 alum, 118

Lotion, ammonia, 123 ammoniated alcohol, 124 borax, 543 bromine, 178 carbonate of potassium, 460 sodium, 545 cayenne pepper, 203 cherry-laurel water, 371 chlorate of sodium, 545 chloride of lead, 448 zinc, 587 corrosive sublimate, 333 and camphor, 333 copper, 333 cosmetic, 333 creasote, 253 cyanide of potassium, 463 galls, 305 glycerin, 312 hydrocyanic acid, 94 ioduretted potassium, 469 iodine, 352 marigold, extract of, 189 muriatic acid, 96 mustard, 538 nitrate of potassium, 472 nitric acid, 97 nux vomica, 409 orpiment, 151 oxide of zine, 590 Peruvian bark, 232 sal ammoniae, 127 sulphate of copper, 261 morphia and borax, 402 sodium, 549 zinc, 592 sulphuret of potassium, 475 compound, 475 sodium, 550 sulphuric ether, 106 tartar emetic, 144 and camphor, 144 corrosive sublimate, 144 tobacco, 567 veratria, 581 verdigris, compound, 258 Lozenges, 666 of anise, 138 balsam of tolu, 166 bicarbonate of sodium, 541 borax, 542 carrageen, 225 catechu, 213 Cayenne pepper, 202 chalk, 184 charcoal, 205 chlorate of potassium, 462 chloride of gold and sodium, 161

Lozenges, 188 chlorinated lime, cinnamon, 234 citric acid, 92 croton oil, 416 cubebs, 255 extract, 256 cyanide of gold, 162 emetina, 271 ginger, 593 gum, 84 iodide of iron, 289 potassium, 465 ipecacuanha, 356 and camphor, 356 Jackson's, 596 kermes mineral, 141 lactate of iron, 291 lactic acid, 95 lactucarium, 369 lemon juice, 373 oil, 373 liquorice, 313 and opium, 313 magnesia, 379, 381 manna, 387 marsh mallow, 115 muriate of morphia, 401 and ipecacuanha, 400 naphthalin, 407 oxalate of potassium, 473 oxalic acid, 98 paullinia, 434 pellitory, 479 peppermint, 393 rhubarb, 492 rose, 497 Spitta's, 255 starch, 135 subcarbonate of iron, 282 tartaric acid, 101 Tronchin's gum, 84, 141 vanilla, 580 Wistar's, 313 Lugol's ioduretted water, 352 468 solution, 352 Lunar caustic, 147 Lupulin, 377 emulsion, 378 extract, 378 fluid, 878 ointment, 378 oleo-resin, 378 pills, 378 powder, 378 syrup, 378 tincture, 378 Luting for bottles, 601 Lycopodium, 378 mixture, 378 powder compound, 378

### M

Macassar oil, 134 Mace, 379 balsam, nervine, 404 drops, carminative, 379 oil, volatile, 379 Mace, saccharated powder, 506 tincture, 379 Maceration, 648 Mackensie's solution, 147 Madder, 500

Madder, decoction, 501 powder, compound, 501 Magendie's solution of morphia, 402 Magnesia, 379

White the same of	And the second s	
Magnesia, aperient effervescing,	Malt, infusion, 384	Meal, flaxseed, compound, 375
384	Management of convalescence,	Measures, 26
Dinneford's fluid, 381	80	approximative, 27, 28
heavy, 379	sick room, 60	drops, 28, 29
mixture, 380	Manganese, 385	foreign, 30
and gentian, 380	carbonate, 385	French, 30
rhubarb, 380	pills, with iron, 385	imperial, 27
powder and orange-peel,	chloride, 385	wine, 26
379	pills, 385	Medicated waters, 595
rhubarb, 379	iodide, 385	baths, 671
sulphur, 379	pills, 385	Melilot, 392
troches, 379	syrup, 386	plaster, 392
Magnesium acetate, 380	and iron, 386	Mellites, 647
bitartrate, 384	oxide, black, 386	Mercury, 326, 698
carbonate, 380	bolus, 386	cataplasm, 330
carminative, Dalby's,	ointment, 386	cerate, 330
381	compound, 386	compound, 330
Dewees's, 381	powder, 386	gargle, 327
heavy, 380	phosphate, 386	liniment, 330
light, 380	sulphate, 387	compound, 330
lozenges, 381	Manna, 387	opiated, 330
mixture, 381	emulsion, 387	lotion, 327
with camphor, 381	lozenges, 387	mixture, 329
colchicum,	mixture, 387	mucilage, 327
381	syrup, 387	ointment, 329
rhubarb, 381	Mannite, 388	camphorated, 329
solution, 380	Marigold, 189	compound, 329
citrate, 382	extract, 189	and belladonna, 330
granular, 382	lotion, 189	turpentine, 330
soluble, 382	pills, 189	pills, 328
solution, 382	infusion, 189	and antimony, 326
water, 382	liniment, 189	colocynth, 328
phosphate, 382	Marine glue, 603	jalap, 328
sulphate, 383	Marjoram, 429	quinia, 328
Cheltenham salts, 383	oil, 429	rhubarb, 328
clyster, 383	Marsh's test, 688	Abernethy's, 329
emulsion, purgative,	Marsh mallow, 114	Belloste's, 329
383	decoction, 114	compound, 328
mixture, with aloes,	lozenges, 115	triplex, 328
383	ointment, 115	plaster, 330
coffee, 383	paste, 114	and belladonna, 330
nitrie acid, 384	pectoral tea, 114	powder, compound, 326
Rochelle salt,	powder, 115	purified, 326
383	syrup, 114	suppositories, 330
Seidlitz water,	rosemary, 554	Mercury, acetate, 331
383	decoction, 554	liniment, 331
sulphuricacid,	Masterwort, 223	pills, 331
383	Mastich, 389	with opium, 331
tartar emetic,	collutory, 389	solution, 331
383	dentifrice, 389	ammoniated, 331
sulphuret, 384	dinner pills, 389	ointment, 331
syrup, 384	paste, anti-odontalgic, 389	and antimony, 326
tartrate, 384	tincture, ethereal, 389	chalk, 326
Magnolia, 384	varnish, crystal, 389	liniment, 327
tincture, 384	picture, 389	with ipecacuanha,
Mahy's plaster, 448	Matico, 390	327
Maidenhair, 104	decoction, 390	gum, 327
syrup, 104	extract, 390	pills, with hem-
Malate of iron, 292	fluid, 390	lock, 327
Male fern, 299	infusion, 390	magnesia, 327
bolus, 299	with senna, 390	borate, 331
electuary, 300	ointment, 390	bromide, 331
jelly, 300	syrup, 390	bibromide, 332
mixture, 300	tincture, 390	protobromide, 332
oleo-resin, 300	May apple, 450	solution, ethereal, 332
pills, 300	extract, 451	calomel, 334
powder, 299	pills and iron, 451	chloride, and quinia, 337
Mallow, common, 385	podophyllin, 451	pills, 337
decoction, 385	podophyllin, 451	mild, 334
species, emollient, 385	pills, compound, 451	corrosive, 332
for gargles, 385	Mayweed, 252	corrosive sublimate, 332
Malt, 384	cataplasm, 252	cyanide, 337
clyster, emollient, 385	infusion, 252	gargle, 338
extract, 384	Meal, barley, 324	ointment, 338

	35	. 10
Mercury, cyanide, pills, com-		Mixture, avens, 312
pound, 338 solution, 338	plaster, cantharides, 396 Milk, 366	balsam of Peru, 165 tolu, 167
tincture, compound,		and almond emul-
338	arrowroot, 388	sion, 167
iodide, green, 339	artificial, 132	belladonna,
ointment, 340	asses', 611	166
pills, 339	goats', 367	eopaiba, 167
compound, 339	cement, china, 367	morphia, 166
powder, 339 red, 338	chocolate, 610 coffee, 610	borles 611
ointment, 339	mixture, with suet, 367	barley, 611 belladonna, 172
pills, 338	soda water, 367	benzoic acid, 89
tincture, 339	powder, 367	and copaiba, 89
ethereal, 339	roses, 132	bicarbonate of potassium,
wash, 339	sago, 507	455
nitrate, 340	sugar of, 506	sodium and copaiba, 542
liniment, 340 ointment, 340	draught, 506 with gum Arabic, 506	bichloride of platinum, 444
with lead, 340	Iceland moss, 506	biniodide of potassium, 469 bistort, 177
pills, 340	syrup, 367	bitartrate of potassium, 456
solution, 340	vanilla, 580	bittersweet, 269
olcate, 341	whey alum, 366	black drop, 421
and morphia, 341	aromatic, 366	hellebore, 322
oxide, black, 341	cream of tartar, 366	boracic acid, 90
wash, 341	mustard, 366	borax, 543
ointment, 341 pills, 341	simple, 366 tamarind, 366	borotartrate of potassium, 457
red, 342	vinegar, 366	and magnesium,
ointment, 342	wine, 366	458
brown, 343	Mindererus, spirit, 124	brown, 314
with cinnabar,	Mineral, ethiops, 344	buckbean, 395
343	Kermes, 141	diuretic, 395
lead, 343	Mint, 394	butter of cacao, 181
sulphur, 343 tin, 343	Mixtures, 654 Mixture, acetate of ammonium,	cabbage-tree bark, 311 camphor, 193
zine, 343	125	and chloroform, 194
pills, 342	lead, 445	ether, 194
powder, 342	morphia, 399	myrrh, 193
yellow, 342	potassium, 454	Parrish's, 193
ointment, 342	acetic ether, 105	water, 194
wash, 342 phosphate, 343	aconite, 104 aloes, alkaline, 112	camphorated cough, 195 carbonate of ammonium,
pills, 344	aloetic, 112	126
protonitrate, solution, 341	American hellebore, 584	and ginger, 126
sulphate, yellow, 344	ammonia, 122	magnesium, 381
ointment, 344	and ether, 122	and camphor, 381
powder, compound,	ammoniae, 120	colchicum, 381
344 persulphate, 344	and nitric acid, 120 compound, 120	potassium, 460 sodium and chamomile,
sulphuret, black, 344	ammoniated alcohol, 124	544
pills, 344	iron, 280	gentian, 544
powder, 344	angustura, 137	ipecacuanha, 544
red, 345	anisated ammoniated alco-	quassia, 544
cerate, 345	hol, 124	carburet of iron, 283
ointment, 345 pills, 345	anise, 138 antacid, 186	carminative, 381, 394 carrageen, 225
powder, 345	anthelmintic, 511, 435	cascarilla, 209
fumigating,	anti-emetic, 214, 541	cassia pulp, 210
345	anti-epileptic, 147	castor oil and ether, 413
tartrate, 345	anti-hectic, Griffith's, 282	catechu and logwood, 214
Matala warnish for acating 606	anti-otitie, 423	caustic potassa, 452
Metals, varnish for coating, 606 Method of displacement, 649	antimonial wine and am- moniac, 145	celandine, 220 centaury, 215
preserving a corpse, 598	bittersweet, 145	chalk, 184
Metrical weights, 21	laudanum, 145	compound, 184
measures, 30	anodyne, Vicat's, 124	chamomile, 139
Metz's balsam, 258	arseniate of potassium, 455	cherry-laurel water, 371
Mezereon, 395	asparagus, diuretic, 153	chloride of ammonium, 128
decoction, 395	assafetida, 154	barium, 168
compound, 396 extract, 396	and oxymel of squill,	calcium, 185 iron, 284
ethereal, 396	tolu, 155	chlorine, 223
fluid, 396	compound, 155	chloroform, 224

Mixture, cider, 362 citrate of potassium and Peruvian bark, 462 cochineal and carbonate of potassium, 236 common salt, 236 cod-liver oil, 410 colchicum, 240 and ammonia, 241 elaterium, 241 magnesia, 240 sulphate of magnesium, 240 tincture, 240 with foxglove, 241 vinegar, 241 with squill, 241 wine, 240 colocynth, 243 tincture, 244 colored fire, 603 colombo, 190 and cascarilla, 191 salep, 191 common salt and lemon juice, 546 contrayerva, 247 copaiba, 248 corrosive sublimate, 333 creasote, 252, 253 croton oil, 416 croup, 357 cubebs, 256 oil and copaiba, 257 cyanide of potassium, 463 dandelion, 570 Dippel's oil, 409 diuretic, 435 eggs, 430 and brandy, 431 wine, 431 elaterium, 270 elder, 509 elecampane, 350 emetina, 271 ergot, 273 ergotin, 273 errhine, 136 ether, 106 and opium, 106 expectorant, 391 extract of lettuce, 368 ferrocyanuret of quinia, 483 zine, 588 flaxseed, 375 Fowler's solution, 454 foxglove and acetate of lead, 266 potassium, 265 tartaric acid, 266 expectorant, 266 tincture, 266 galbanum, 303 gallic acid, compound, 93 and sulphuric acid, 93 gamboge, 306 and elaterin, 307 gentian, 308, 309 and sulphuric acid, 310 tincture, 310 guaiacum, 318 and bittersweet, 318 paregoric, 319

Mixture, guaiacum and copai- | Mixture, oleaginous, 412 ba, 319 henbane, 319 odontalgie, 319 gum Arabic, 84 Wendt's, 85 hemlock and paregoric, 246 henbane, 347 and antimony, 347 squill, 348 Hope's, 192 hops, 325 horseradish, 149 hydrocyanic acid, 93 Iceland moss, 219 Indian sarsaparilla, 323 iodide of iron, 291 and chloride, syrup of, 291 potassium, 466 and sarsaparilla, 466 iodine, 352 and arsenic, 454 iodide of potassium, 352 ipecacuanha, 357 iron, aromatic, 279 compound, 282 jalap, 361 tincture, 361 Kermes mineral, 141 lactate of quinia, 484 lactucarium, 369 tartar laudanum and emetic, 429 lettuce and dandelion, 368 extract, 368 water, 369 liquorice, 314 compound, 314 lobelia, 377 logwood, extract, 320 magnesia, 380 and gentian, 380 rhubarb, 380 malate of iron, 292 male fern, 300 manna, 387 mercurial, 329 milk and suet, 367 monesia, 397 muriate of morphia, 400 quinia, 484 muriatic ether, 96 musk, 403 myrrh, compound, 406 Griffith's, 406 narcotina, 407 neutral, 462 compound, 462 nitrate of ammonium, 129 potassium, 472 nitric acid, 97 nux vomica, 409 odontalgic, 208 oil of almonds, 134 amber, 561 anise, 138 cajeput, 410 euphorbia, 276 juniper, 362 mole plant, 276 valerian, 579

olive oil, 412 opium and cinnamon water, 426 lime water, 424 syrup of poppies, 426 pectoral, 389 Peruvian bark, 227, 229 phosphate of sodium, 548 pomegranate root, extract, 316 Prussian blue, 288 quince seed, 262 rhatany, 365 rhubarb, 495 rue, 503 and squill, 502 santonica, 511 scammony, 522 Scudamore's, 240 sedative, 426, 433 seneka, 530 senna, 533 soot, 301 spermaceti, 217 squill, syrup, 526 extract, and rhubarb, 526 oxymel and ammoniae, 526 ipecacuanha, 526 marsh mallow, 526 valerian, 526 vinegar, 526 and ammonia, 526 starch and suet, 135 stramonium, 556 strychnia, 557 subcarbonate of iron, 282 succinate of ammonium, sugar of milk and gum Arabic, 506 Iceland moss, 506 sulphate of cinchonia, 233 iron, 298 magnesium and coffee, 383 nitric acid, 384 Rochelle salt, 383 sulphuric acid, 383 tartar emetic, 383 morphia, 402 potassium, 474 quinia, 487 and coffee, 487 zinc, 592 sulpho-tartrate of quinia, sulphur, 563 sulphuret of antimony, 142 and lime, 142 carbon, 565 potassium, 476 sodium and sal ammoniac, 550 sulphuric ether and camphor, 106 turpentine, 106 sweet spirit of nitre, 552 tannic acid, 101 tartarized soda, 464 tartrate of potassium, 477 and ammonium, 464

Mixture, tobacco, 567	Mo
turpentine, 572	
oil, 414	
and ether, 414	
uva ursi, 577	
valerianate of zinc, 592	
valerian and ammonia,	
579	
Hoffmann's anodyne,	1
579	
vinegar, 85	
and cardamom, 86	
Virginia snakeroot, ace-	1
tated, 536	
and allspice, 536	
wine of opium, 426	
wormseed oil, 220	
yeast, 277	
Mode of administration of med-	
icine, 63	
Molasses beer, 611	
injection, 598	Me
posset, 610	M
Mole plant, 276	
mixture of oil, 276	
Monesia, 397	
mixture, 397	
ointment, 397	
purified, 397	
syrup, 397	
compound, 397	M
tincture, 397	
Monkshood, 102	
Monsel's solution, 295	
Morphia, 397	M
anodyne solution, 398	M
draught, 398	
injection, 398	
pills, 398	M
acetate, 398	M
bolus, 398	
clyster, 399	
mixture, 399	
ointment, 399	
pills, 398	
powder, compound,	*2
398	
solution, 399	
alcoholic, 399	Mı
with ipecacuanha,	
398	
syrup, 399	
troches, 398	
bimeconate, 399	
solution, 399	
citrate, 399	
hydriodate, 400	
muriate, 400	
chlorodyne, 596	
lozenges, 401	1

Marphia muriata and incasa.
Morphia, muriate, and ipecac-
uanha lozenges, 400
mixture, 400
pills, 401
solution, 400
suppositories, 401
syrup, 400
compound, 400
compound, 400
nitrate, 401
phosphate, 401
sulphate, 401
bolus, 401
lotion, 402
pills, 401
solution, 402
Manandiala 400
Magendie's, 402
suppositories, 402
syrup, 402
troches and ipecac.,
401
tartrate, 402
Mosaic gold, 554
Musile gold, 554
Mucilage, gum Arabic, 84
mercurial, 327
rice, 430
sago, 507
salep, 607
slippery elm, 576
starch, 135
tragacanth, 574
Mudar, 189
infusion, 189
oil, 189
pills, 189
Mugwort, 152
Mulberries, 397
syrup, 397
rob, 397
Mulled wine, 610
Muriate of brucia, 178
cinchonia, 233
morphia, 400
and codeia, 237
and codera, 201
narcotina, 407
opium, 425
quinia, 484
strychnia, 559
veratria, 582
Muriatic acid, 96, 689
bath, 96
diluted, 96
draught, 96
gargle, 96
gaseous, 96
injection, 96
liniment, 96
lotion, 96
mixture, 96
pediluvium, 96

```
Muriatic acid, syrup, 96
    ether, 105
         chlorated, 105
Musk, 402
    artificial, 560
         emulsion, 560
         tincture, 560
    bolus, 402
    clyster, 403
    mixture, 403
    pills, 402
    powder, 402
    root, 565
         compound elixir, 566
         fluid extract, 566
         oleo-resin, 566
         tincture, 565
tincture, 403
Mustard, 537
    cataplasm, 537
         compound, 537
     foot-bath, 537
     gargle, 537
     injection, 537
     liniment, 538
     lotion, 538
     oil, fixed, 538
         volatile, 538
              tincture, 538
     ointment, 538
         compound, 538
     paper, 537
whey, 537
Mutton broth, 609
     tea, 608
Mynsicht's elixir, 99
Myrrh, 405
     collutory, 406
     extract, 406
         compound, 406
     gargle, 406
     injection, 406
     mixture, compound, 406
         Griffith's, 406
     oil, 407
     pills and Canada balsam,
                405
              squill, 405
              sulphate of iron,
                       405
                     zine, 405
     plaster, 407
     powder, emmenagogue, 405
         and ipecacuanha, 405
         saccharated, 506
     solution, alkaline, 406
     tincture, 406
and hellebore, 406
          dentifrice, 407
```

### N

Naphthalin, 407
lozenges, 407
ointment, 407
syrup, 407
Narcotics, 700
Narcotico-irritants, 702
Narcotina, 407
bolus, 407

Narcotina, mixture, 407
muriate, 407
Nervine balsam, 370, 404
Neutral mixture, 462
New Jersey tea, 214
decoction, 215
Nicholson's hydrometer, 33
Nicotina, 567

Nitrate of ammonium, 129 mixture, 129 camphor, 195 iron, 292 mercury, 340 acid, 340 morphia, 401 potassium, 471

Nitrate of quinia, 485 silver, 146 sodium, 547 strychnia, 559 veratria, 582 Nitre, 471 cubic, 547 fused, 471 purified, 471 sweet spirit, 552 Nitric acid, 97 collutory, 97 diluted, 97 fomentation, 97 injection, 97 lemonade, 97 liniment, 97 lotion, 97 mixture, 97

Nitrie acid ointment, 97 Nitro-muriatic acid, 97 diluted, 98 bath, 98 saccharate of lead, 450 Nitrous ether, 552 powders, 471 Norwood's tincture, 583 Nuremberg plaster, 450 Nutmeg, 404 cerate, 404 clyster, 405 essence, 405 nervine balsam, 404 oil, expressed, 404 volatile, 404 plaster, 404 powder, anti-hectic, 405

Nutmeg powder, aromatic, 404 saccharated, 506 spirit, 405 compound, 405 Nux vomica, 408 extract, 408 aqueous, 408 pills, 409 lotion, 409 mixture, 409 pills, 409 and aloes, 409 colocynth, 409 compound, 409 powder, 408 tincture, 408 compound, 408 ethereal, 408

### 0

Oak bark, 481 acorn coffee, 481 cataplasm, 481 confection, 481 decoction, 481 extract, 481 gargle, 481 injection, 481 powder, compound, 481 Oat, 163 cataplasm, 163 decoction, 163 flummery, 163 gruel, groat, 163 powder, for cataplasm, 163 Oatmeal, gruel, 163 Observations on management of the sick room, 60 Officinal preparations and directions, 639 Oil of almond, 133 mixture, 134 bitter, 134 amber, 560 rectified, 560 anise, 137 mixture, 138 benne, 536 benzoin, 174 black pepper, resinous, 439 volatile, 439 box, 180 bromine, 178 cajeput, 410 caraway, 208 carron, 186 castor, 412 chlorine, 223 cinnamon, 235 cloves, 208 cod-liver, 410 copaiba, 249 croton, 415 cubebs, 257 dittany. 257 eggs, 430 elaterium, 270 ergot, 273

Oil of euphorbium, 277 fennel, 301 ginger, 594 guaiacum, 317 compound, 317 horsebalm, 242 horsemint, 396 laurel, 370 macassar, 134 mace, 404 marjoram, 429 mezereon, green, 396 mudar, 189 mustard, fixed, 538 volatile, 538 myrrh, 407 neroli, 159 nutmeg, expressed, 404 volatile, 404 olive, 412 orange flowers, 159 parsley, 436 partridge berry, 307 pennyroyal, 321 peppermint, 393 rose, 498 rosemary, 500 rue, 502 sassafras, 520 savine, 504 scammony, 522 soot, 302 tansy, 568 tobacco, 567 turpentine, 413 and ether, 414 honey, 413 clyster, 414 confection, 413 emulsion, 414 vermifuge, 414 liniment, 415 acetic, 415 opiated, 415 sulphuric, 563 lotion, 413 for toothache, 414 mixture, 414

Oil of turpentine ointment, 414 purified, 413 rectified, 413 soap, Starkey's, 415 solution, odontalgic, 414 wine, 415 valerian, 579 violets, 584 wine, 106 wormseed, 220 wormwood, essential, 84 Oil, British, 435 Dippel's, 409 distilled, 659 essential, 659 table of, 662 fixed, 665 phosphorated, 436 volatile, 659 Ointments, 677 Ointment, ammoniacal, 127 Anglo-Saxon, 119 anodyne, 423 arsenical, 88 atropia, 157 Banyer's, 449 basilicon, 489 citrine, 340 Desault's ophthalmic, 343 Egyptian, 258 for chilblains, 119 issue, 201 itch, 516 Kentish, 415 ophthalmic, 342 pile, 119 poplar, 348 Regent's ophthalmic, 343 Rust's, 119 St. Yves ophthalmic, 343 sultana, 218 Ointment of acetate of lead, 447 morphia, 399 aconite, 103 ammoniated, 104 aconitia, 104 aloes, 114

Ointment of alum, 119 American hellebore, 583 ammoniated copper, 260 animal charcoal, 204 arseniate of iron, 280 azedarach, 164 balsam of Peru, 165 compound, 165 belladonna, 173 bichloride of platinum, 444 biniodide of potassium, 469 and opium, 469 black hellebore, 322 oxide of mercury, 386 pepper, 439 pitch, 443 borax, 543 bromide of iron, 281 potassium, 458 compound, 458 sodium, 544 butter cacao, 181 calomel, 337 and acetate of copper, 337 alum, 337 camphor, 337 squill, 337 camphor, 195 cantharides, 200 carbolic acid, 91 carbonate of ammonium, 127 lead, 447 camphorated, 447 potassium, 461 sodium, 545 carburet of iron, 283 carrot, 207 cevadilla, 503 extract, 503 charcoal, 205 cherry-laurel, 371 chloride of antimony, 139 gold, 160 and sodium, 160 lead, 448 chlorinated lime, 188 chlorine, 223 chloroform, 224 cocculus indicus, 236 cod-liver oil, 411 compound, 411 common salt, 546 compound, 546 cowhage, 403 creasote, 253 compound, 253 croton oil, 417 cucumber, 257 cyanide of silver, 146 cyanide of mercury, 337 potassium, 463 delphinia, 263 elder flowers, 510 leaves, 509 elemi, 271 fennel, 301 figwort, 528 foxglove, 266 fuligokali, 302 galls, 306 compound, 305 extract, 305

Ointment of glycerin, 312 gold, 160 hemlock, 245 balsamic, compound 245 henbane, 348 compound, 348 hops, 326 hydrargyro-iodide of potassium, 470 iodide of ammonium, 129 iodide of arsenic, 150 barium, 168 cadmium, 181 earbon, 206 iron, 291 lead, 448 mercury, 339 potassium, 465 and opium, 467 mercury, 467 morphia, 467 silver, 146 sulphur, 565 zine, 588 iodine, 353 compound, 353 with mercury, 353 oil of tobacco, 353 iodoform, 354 laudanum, 423 laurel, 370 lavender, 372 lead, 449 compound, 449 lime, 186 lupulin, 378 marsh mallow, 115 matico, 390 mercury, 329 camphorated, 329 compound, 329 and belladonna, 330 turpentine, 330 mezereon, 396 monesia, 397 mustard, 538 compound, 538 naphthalin, 407 nitrate of bismuth, 176 mercury, 340 and lead, 340 silver, 147 compound, 148 strychnia, 559 nitric acid, 97 opium and tar, 423 oxide of manganese, 386 and sulphur, 386 silver, 148 zinc, impure, 590 petroleum, 435 phosphorus, 437 pierotoxin, 236 poke, 438 Prussian blue, 288 red iodide of mercury, 339 oxide of mercury, 342 and basilicon, 343 cinnabar, 343 lead, 343 sulphur, 343 tin, 343 zine, 343

Ointment of red sulphuret of mercury, 345 rhatany, compound, 366 rose water, 497 saffron, 254 savine, 505 soot, 302 compound, 302 spermaceti, 217 and rose water, 217 squill, 527 stavesacre, 554 stramonium, 556 strychnia, 558 subacetate of lead, 447 copper, 258 sulphate of cadmium, 182 copper, 261 mercury, 344 quinia, 487 sulphur, 563 and camphor, 564 soap, 564 zinc, 564 compound, 564 sulphuret of antimony, 141 potassium, 477 sodium, 550 sulphuric acid, 100 tannate of lead, 450 tannic acid, 101 tar, 443 compound, 443 tartar emetic, 144 compound, 144 tin, 553 tobacco, 567 turpentine, 572 compound, 572 tutty, 500 veratria, 581 and iodine, 582 morphia, 582 opium, 581 verdigris, 258 and alum, 258 white hellebore, 583 compound, 583 white precipitate, 331 wild indigo, 167 willow leaves, 508 zinc, oxide, 590 and calomel, 590 opium, 590 Oleaginous mixture, 412 Oleate of mercury and morphia, Oleo-infusion of aconite, 103 belladonna, 172 cantharides, 199 chamomile, 139 elaterium, 270 figwort, 528 German chamomile, 391 hemlock, 245 henbane, 348 marjoram, 430 rosemary, 500 rue, 502 stramonium, 557 tobacco, 567 wormwood, 84 Oleoresin of black pepper, 439

		Agreement to the second
	Opium pills with liquorice, 421	
203	musk, 420	emulsion, 429
cubebs, 256	nitrate of silver,	tincture, 429
ginger, 594	420	compound, 429
lupulin, 378	soap, 428	Orange, 157
male fern, 300	tartar emetic, 143	berries, 159
Oleo-saccharated powders, 506	sulphate of zine,	elixir, compound, 159
Olive oil, 412	420	tincture, comp., 158
clyster, 412	sulphuret of an-	flowers, 159
mixture, 412	timony, 419	confection, 159
Onguent de la mère, 449	plaster, 422	oil, 159
Opiate, anti-dysenteric, 422	with camphor, 422	pastilles, 159
Opium, 417, 700	galbanum, 422	syrup, 159
balsam, 421	powder, 419	water, 159
cerate, 423	compound, with chalk,	leaves, 158
clyster, 424	419	electuary, 158
collyrium, 423	Dover's, 354	jelly, 159
confection, 421	eclectic, 429	oil, simple elixir, 597
draught, anodyne, 428	roasted, 419	spirit, 597
drops, 422	with antimony, 419	peel, 157
elixir, 418	camphor, 419	confection, 157
Lettsom's, 428	musk, 419	electuary, 157
extract, acetous, 418	nitre, 419	elixir, 158
alcoholie, 418	sulphur, 419	simple, 158
aqueous, 418	suppository, 424	extract, 158
aqueo-alcoholic, 418	syrup, 423	infusion, 158
denarcotized, 418	succinated, 423	compound, 158
fermented, 418	tincture, 426	powder, with rhubarb,
roasted, 418	acetated, 425	157
vinous, 418	ammoniated, 427	spirit, 158
Godfrey's cordial, 428	and capsicum, 427	syrup, 158
fomentation, 424	saffron, 426	tincture, 157
injection, 424		
	soap, 428	Orgent, syrup of, 132
linetus, 424, 428	tartar emetic, 429	Oriental pills, 420
liniment, 422	Bateman's, 427	water, 459
with oil of chamomile,	Battley's, 427	Orpiment, 151
423	camphorated, 427	depilatory, 151
lozenges, Wistar's, 429	clyster, 424	Delcroix's, 151
mass, anti-odontalgic, 421	and valerian, 424	lotion, 151
mixture, anti-otitic, 423	compound, 427	powder, 151
brown, cough, 314	extract, 427	Orris root, 358
with cinnamon water,	liniment, 422	dentifrice, 358
426	and lime water,	Oxalate of cerium, 216
lime water, 424	422	iron, 293
	ointment, 423	potassium, 472
syrup of poppies,		O-1: 001d 00 600
426	Smith's, 427	Oxalic acid, 98, 690
sedative, 426	succinated, 428	lozenges, 98
muriate, 425	Swediaur's, 428	Ox gall, 277
ointment, 423	Warner's 428	Oxide, antimony, nitro-muria-
and tar, 423	vinegar, or black drop, 425	tic, 139
pills, 419	Guy's hospital, 425	gold, 162
aromatic, 420	Houlton's, 425	iron, hydrated, 293
odontalgie, 421	· Lancaster, 425	lead, 449
with acetate of lead.	mixture, 426	manganese, 386
420	Porter's, 425	mercury, 341
mercury, 420	Rousseau's, 425	silver, 148
butter of cacao,	water, 424	tin, 553
420	wine, 426	zinc, 589
camphor, 420	collyrium, 423	Oxymel, 391
castor, 421	drops, odontalgic, 421	bitartrate of potassium,
foxglove, 420	fomentation, 424	456
hemlock and cal-	mixture, 426	eolehicum, 240
omel, 420	Sydenham's, 426	elecampane, compound, 351
and henbane,	Opodeldoc, 514	squill, 527
419	liquid, 514	Oyster-shell, prepared, 183

# P

D-11 100	I D. 1114	D
Palamoud, 180	Pellitory tincture, 479	Peruvian bark powder with cam
Panada, 607 chicken, 609	compound, 479 Pennyroyal, 321	phor, 227
Pancreatin, 431	infusion, 321	cascarilla, 226
glycerite, 432	oil, 321	isinglass, 227 valerian 227
injection, nutritive, 432	Pepper, black, 439	saccharated, 506
powder, 431	cubebs, 254	syrup, 232
solution, digestive, 431	long, 440	iron, 232
Paper, anti-rheumatic, 490	Jamaica, 438	vinous, 232
blistering, 201	white, 439	tincture, 230
calabar bean, 438	Peppermint, 393	compound, 230
mustard, 537	essence, 393	ammoniated, 231
nitrated, 472	lozenges, 393	with cantharides,
resin, 490	mixture, 394	231
Paracelsus' elixir, 113	oil, 393	gentian, 231
Paraguay-roux, 479	spirit, 393	snakeroot,
Paregoric, elixir, 427	water, 393	231
Scotch, 427	Pepsin, 434	valerian, 231
Pareira brava, 433	saccharated, 434	wine, 232
decoction, 433	wine, 434	and iron, 232
extract, 433 fluid, 433	rennet, 435 Persimmon, 268	Potroloum 425
infusion, 433	infusion of bark, 268	Petroleum, 435
tincture, 433	wine of fruit, 268	British oil, 435
Parrish's camphor mixture, 193	Persulphate of mercury, 344	diuretic mixture, 435
Parsley, 436	Peruvian bark, 226	embrocation, 435
infusion, 436	beer, 232	ointment, 435
oil, 436	cataplasm, 231	plaster, 435
Partridge-berry, 307	cerate, 231	Pewter, solder for, 605
oil, 307	clyster, 231	Pharmaceutical names, table
water, 307	decoction of yellow,	of, 727
Pastes, 666	228	Phloridzin, 436
Paste, almond, 131	compound, 229	powder, 436
chloride of zine, 587	mixture, 228	Phosphate of ammonium, 129
cacao, compound, 180	with cascarilla,	solution, 129
copaiba, 250	229	calcium, 187
de guimauve, 85	rhatany,	iron, 295
fig, 299	229	magnesium, 382
glycerin, 312	electuary, 230	manganese, 386
gum Arabic, 84, 85	astringent, 230 with catechu, 230	mercury, 343
liquorice, 313 marshmallow, 114	iron, 230	morphia, 401 quinia, 485
anti-odontalgie, 389	tin, 230	sodium, 548
pectoral, of gum Arabic,	elixir, 233, 597	Phosphorated ether, 437
84	with iron, 597	liniment, 437
phosphorus, 437	extract, 228	oil, 436
tragacanth, 574	aqueous, 227	emulsion, 436
rubefacient, 445	bolus, 228	turpentine, 437
Ward's, 439	fluid, 229	ointment, 437
Pastilles, catechu, 214	aromatic, 232	Phosphoric acid, 98
de Paris, 596	pale, 227	diluted, 98
de santé, 522	pills, 228	fomentation, 98
fumigating, 173	precipitated, 228	glacial, 98
orange flowers, 159	vinous, 228	lemonade, 99
purgative, 522	gargle, 232	pills, 98
Paullinia, 434 chocolate, 434	infusion of yellow, 229 compound, 229	Phosphorus, 436, 699
extract, alcoholic, 434	with cantharides,	cerate, 437
lozenges, 434	229	paste, 437
pills, 434	magnesia, 229	pills, 436
syrup, 434	rhubarb, 230	tincture, 437
Pearson's solution, 540	snakeroot, 229	Pierotoxin, 236
Pediluvium, mustard, 537	lotion, 232	Pills, 641
muriatic acid, 95	mixture, 227	Abernethy, 329
Pellitory, 479	pomatum, 230	acetate of copper, 257
extract, 479	powder, compound,	lead, 444
liniment, 479	226	mercury, 331
lozenges, 479	dentifrice, 227	and opium, 331
plaster, 479	with arnica, 226	morphia, 398

Pills, black oxide of iron, 294

Pills, acetate of potassium, compound, 453 sodium, compound, 539 aconite, extract, 103 agaric and opium, 177 aloes, 108 and assafetida, 108 blue mass, 111 iron, 109 myrrh, 109 rhubarb, 111 Anderson's, 109 antichlorotic, 110 aperient, 109, 111 Barthez's, 111 Bicker's, 110 Chapman's anti-dyspeptic, 109 aperient, 109 compound, 108 dinner, 109, 389 Duchesne's, 110 Frank's, 111 Fuller's, 110 Hooper's, 109, 298 James's analeptic, 110 Lady Webster's, 109 Mitchell's, 109 Morrison's, 109 Peters's, 110 Pitschaft's eccoprotic, 111 Rufus's, 109 Speediman's, 110 splenitic, 110 Stahl's, 110 Whytt's, 110 alum, 117 and benzoic acid, 117 astringent, 117 American hellebore, 583 ammoniae, 119 and rhubarb, 120 compound, 120 De Haen's, 120 Klein's, 120 ammoniated copper, 259 compound, 260 gold, 162 iron, 280 anemone, 136 antibilious, 243 antimonial powder and calomel, 140 arseniate of iron, 280 arsenic and opium, 89 pepper, 89 arsenical, 89 assafetida, 154 and aloes, 108 iron, 154 lactucarium, 154 musk, 154 opium, 154 compound, 303 Bacher's, 322 balsam of Peru, 164 belladonna, compound, 171 and camphor, 171 bichloride of platinum, 443 bittersweet, extract, 269 black hellebore, 321 extract of, 322 oxide of mercury, 341

pitch, 443 Blancard's, 290 Blaud's antichlorotic, 297 bloodroot, 510 blue, or mercurial, 328 and antimony, 326 colocynth, 328 jalap, 328 quinia, 328 rhubarb, 328 compound, 328 borax and aloes, 542 borotartrate of potassium, compound, 457 bromide of iron, 281 brucia, 178 buckbean, compound, 395 Burgundy pitch, 441 calomel, 335 and acetate of lead, antimony, 336 catechu, 336 colocynth, 336 dandelion, 335 guaiacum, 336 iron, 335 jalap, 336 opium, 337 quinia, 335 squill, 335 compound, 336 cathartic, 243 camphor, 192 compound, 192 and lactucarium, 192 musk, 192 cantharides and camphor, 197 capsicum, 197 iron, 197 carbonate of ammonium, 126 iron, 281 compound, 282 and manganese, 385 sodium, 545 and rhubarb, 544 carburet of iron, 283 castor, 211 and succinic acid, 211 catechu and alum, 213 liquorice, 213 cathartic, compound, 243 Cayenne pepper, 202 celandine, 220 centaury, extract, 215 chamomile, compound, 139 chloride of barium, 168 calcium, 185 gold, 160 and sodium, 161 manganese, 385 mercury and quinia, 338 silver and ammonia, 146 citrate of caffeina, 238 colchicum, 239 compound, 239 colocynth, compound, 243 and henbane, 243

Pills, columbo, compound, 190 copaiba, 247 and cubebs, 248 and turpentine, 248 corrosive sublimate, 332 compound, 332 creasote, 252 croton oil, 415 compound, 416 and blue mass, 416 quinia, 416 cyanide of gold, 162 zinc, 588 mercury, compound, 338 potassium, 463 dandelion, 570 and blue mass, 570 digitalin, 267 dinner, 109, 389 dogwood, round-leaved, 251 elaterium, 270 elecampane, compound, 350 ergot, extract of, 273 compound, 273 ferrocyanate of quinia, 483 ferrocyanide of zinc, compound, 588 foxglove, 265 and squill, 265 fuligokali, sulphuretted, 302 galbanum, compound, 303 gallie acid, 93 gamboge, compound, 306 gentian, compound, 308 Griffith's, 282 Griffitt's, 492 guaiacum and aloes, 318 antimony, 318 sulphur, 318 turpentine, 318 hemlock and calomel, 242 dandelion, 244 ipecacuanha, 244 henbane, compound, 347 and ipecacuanha, 347 opium, 347 hydrargyro-iodide of potassium, 470 iodide of arsenic, 150 calcium, 185 iron, 289 lead, 448 manganese, 385 mercury, 339 compound, 339 potassium, 465 iodine, 351 indigo, 350 ipecacuanha and centaury, 356 foxglove, 356 opium, 356 squill, 356 compound, 354 iron, prepared, 278 jalap and calomel. 360 compound, 360 Keyser's, 331 kinate of quinia, 484 kino, compound, 364

Pills, lactate of iron, 292 quinin, 484 lactucarium, 368 Lartigue's, 239 Lockstadt's, 134 lupulin, 378 male fern, extract, 299, 300 marigold, extract, 1899 mercury and antimony, morphia, 398 mudar, 189 musk, 402 myrh and Canada sam, 405 squill, 406 compound, 521 senck, 529 senck, 529 senck, 529 senck, 529 squill, 515 squill and ammoniae, 521 squill and ammoniae, 523 compound, 515 squill and ammoniae, 523 compound, 524 squill and ammoniae, 523 compound, 555 rhubarb, 544 ssot, 301 squill and ammoniae, 523 compound, 555 rhubarb, 544 ssot, 301 squill and ammoniae, 523 compound, 555 rhubarb, 544 ssot, 301 squill and ammoniae, 523 compound, 555 rhubarb, 544 ssot, 301 squill and ammoniae, 523 compound, 555 rhubarb, 544 ssot, 301 squill and ammoniae, 523 compound, 555 strubharb, 547 squill and ammoniae, 523 compound, 557 stimulant, 557 squilphate of iron, 405 compound, 555 strubharb, 547 squill, 406 squill and ammoniae, 523 compound, 555 strubharb, 547 squill, 406 squill, 406 squill, 406 squill, 406 squill, 406 squill, 406 squill, 516 compound, 521 squill, 406 squill, 516 compound, 521 squill, 546 squill, 547 squill, 547 squill, 548 squill, 548 squill, 549 squ			
lactucarium, 368 Lartique's, 239 Lockstadt's, 134 lupulin, 378 male fern, extract, 299, 300 marigold, extract, 199 mercury and antimony, 328 morphin, 398 morphin, 492 myrrh and Canada balassim, 492 sulphate of iron, 405 sinc, 405 sulphate of iron, 405 sinc, 405 nitrate of bismuth, 176 potassium, 471 and camphor, 471 silver, 147 nux vomes, 400 lees, 400 opium, 419 and acetate of lend, 420 morphin, 420 camphor, 420 camphor, 420 cator, 421 forglove, 420 mirate of silver, 420 sulphate of rinc, 294 silver, 148 zinc, 590 silver, 148 zinc, 590 paullinia, 434 phosphoric acid, 98 piperina, 440 and mercury, 440 pipisseeva, 221 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipisseeva, 221 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipisseeva, 221 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipisseeva, 221 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipisseeva, 221 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipisseeva, 221 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipisseeva, 221 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipisseeva, 221 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipisseeva, 221 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipisseeva, 221 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipisseeva, 221 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and on, 451 may deptade or organia, 492 saffron, 254 saffon, 251 sand ox-gall, 521 sand ox-gall, 521 sand ox-gall, 521 san	Pills, lactate of iron, 292	Pills, rhatany, 365	Pills, turpentine, 571
Lackstadt's, 134 lupulin, 378 male ferr, extract, 299, 300 marigold, extract, 189 morphia, 398 modar, 40 morphia, 398 modar, 189 morphia, 492 morphia, 492 morphia, 499 morphia, 490 morphia, 49	quinia, 484	rhubarb, 491	and guaiacum, 571
Lockstadt's, 134 Iupulin, 378 male fern, extract, 299, 300 marigold, extract, 189 mercury and antimony, 326 morphia, 398 mudar, 189 musk, 402 supplin, 405 supplin, 406 supplin, 417 nux vonica, 409 and aloes, 409 compound, 409 extract, 409 opium, 419 and acetate of lead, 420 mercury, 420 butter of cacao, 420 camphor, 420 camphor, 420 supplin, 419 liquid, 420 mitrate of silver, 420 sulphate of sinc, 409 sulphate of sinc, 409 sulphate of sinc, 409 sulphate of silver, 420 sul			
lupulin, 378 male fern, extract, 299, 300 marigold, extract, 189 morphia, 398 modar, 189 musk, 402 myrh and Canada balsam, 465 sulphate of iron, 405 zinc, 405 nitrate of bismuth, 176 potassium, 471 and camphor, 471 silver, 147 nux vomes, 400 and aloes, 409 compound, 521 and acetate of lead, 420 mercury, 420 butter of cacao, 420 camphor, 420 mirate of silver, 420 mirate of cacao, 420 camphor, 420 camphor, 420 cate, 420 mirate of silver, 420 mirate of cacao, 420 camphor, 420 camphor, 420 camphor, 420 cate, 420 mirate of cacao, 420 camphor, 420 camphor, 420 camphor, 420 cate, 420 mirate of cacao, 420 moreury, 420 henbane, 419 liquorice, 421 musk, 420 mirate of silver, 420 mirate of cacao, 420 mirate of cacao, 420 camphor, 420 camphor, 420 candon, 555 compound, 555 compound, 555 compound, 555 compound, 555 compound, 260 iron, 297 sulphate of iron, 294 gold, 162 red, of iron, 294 gold, 162			
male fern, extract, 299, 300 marigold, extract, 189 mercury and antimony, 326 morphia, 398 mudar, 189 musk, 402 myrh and Canada balsan, 405 sulphate of iron, 405 silver, 147 nux vonica, 409 extract, 409 opium, 419 and acetate of lead, 409 camphor, 420 and acetate of lead, 420 mercury, 420 butter of cacao, 420 camphor, 421 forglow, 420 henbane, 419 liquorice, 421 forglow, 420 henbane, 419 liquorice, 421 musk, 420 misk, 421 forglow, 420 henbane, 419 liquorice, 421 forglow, 420 misk,			
marigold, extract, 189 morphia, 398 mudar, 189 morphia, 398 mudar, 189 musk, 402 myrh and Canada balsan, 405 sulphate of iron, 405 zinc, 405 nitrate of bismuth, 176 potassium, 471 and camphor, 471 silver, 147 nux vonica, 400 opium, 419 and acetate of lead, 420 mercury, 420 merc			
mereury and antimony, 328 morphia, 398 mudar, 189 musk, 402 myrh and Canada balsam, 405 squill, 405 sulphate of iron, 405 zine, 405 nitrate of bismuth, 176 potassium, 471 and camphor, 471 silver, 147 nux vomica, 409 opium, 419 opium, 419 and acetate of lead, 420 mercury, 420 butter of cacao, 420 mercury, 420 castor, 421 forgelove, 420 hemlock and calo mel, 420 hemboak and calo mel, 420 hemboak and calo mitrate of silver, 421 musk, 420 nitrate of silver, 420 sulphare antimon, 419 aromatic, 420 oxide, black, of iron, 294 soll, 162 red, of iron, 405 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 and ron, 451 and ammonia, 452 henbane, 523 compound, 524 sommony, 521 sompound, 525 soppound, 523 red oxigall, 521 compound, 523 red oxigall, 521 red oxigall, 5			
morphia, 398 mudar, 189 musk, 402 myrh and Canada bal- sagnaffron, 254 squill, 405 sulphate of iron, 405 zine, 405 nitrate of bismuth, 176 potassium, 471 and camphor, 471 silver, 147 nux vonica, 409 opium, 419 and acetate of lead, 409 opium, 419 and acetate of lead, 420 mercury, 420 butter of cacao, 420 camphor, 420 hemboak, 420 mel, 420 hemboak, 420 mel, 420 hemboak, 420 nitrate of silver, 420 sulphate of iron, 294 silver, 148 zine, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 349 phosphorio acid, 98 piperina, 440 pipeissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 and ron, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 preside of mercury, 340 pressian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 preside of mercury, 340 pressian blue, 288 purgative mercurial, 329 red iodide of mercury, 348 pressian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  Griffitt's, 492 sagapenum, compound, 507 compound, 507 scammony, 521 and ox gall, 521 scamsony, 521 and ox gall, 515 compound, 521 scamboux, 521 and ox gall, 515 soda and ipecacuanha, 523 copton oil, 523 ipecacuanha, 523 henbane, 524 compound, 525 strychnia, 557 sulphate of bebeerina, 169 cinchonia, 233 copper, 260 compound, 260 compound, 486 with gentian, 486 sodium, compound, 485 size, 590 compound, 490 with myrrh, 591 turpentine, 91 with myrrh, 591 turpentine, 92 with myrrh, 591 turpentine, 92 sulphate of bebeerina, 169 cinchonia, 233 copper, 260 compound, 486 with gentian, 486 sodium, compound, 486 sodium, compound, 486 with gentian, 486 sodium, compound, 486 sodium, compound, 486 sodium, compo		1 100	
morphia, 398 mudar, 189 mudar, 189 musk, 402 myrrh and Canada balsam, 405 squill, 405 sulphate of fron, 405 zine, 405 nitrate of bismuth, 176 potassium, 471 and camphor, 471 silver, 147 nux vomica, 409 compound, 409 extract, 409 opium, 419 and acetate of lead, 409 opium, 419 and acetate of lead, 420 mercury, 420 butter of cacao, 420 camphor, 421 forglove, 420 hemboak and calomel, 420 nelbak, of iron, 294 silver, 148 zine, 590 compound, 590 and albes, 409 nitrate of silver, 420 nelbak, of iron, 294 silver, 148 zine, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 440 pipeissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 and ron, 451 poison oak, 574 prossian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  saffron, 254 scompound, 507 salicin, 507 compound, 507 salutis, 112 compound, 504 scammony, 521 and ox.gall, 515 compound, 515 soa and ipecacuanha, 525 aclomel, 523 calomel, 523 sempound, 544 sott 301 and ammoniae, 523 calomel, 523 calomel, 523 calomel, 523 calomel, 523 calomel, 523 calomel, 523 sempound, 525 strychnia, 527 sulphate of bebeerina, 169 cinchonia, 233 copper, 260 and hobane, 581 Virginia snakeroot, compound, 555 infusion, 551 compound, 551 sardonel, 523 calomel, 523 compound, 516 compound, 516 compound, 516 compound,			
mudar, 189 musk, 402 myrrh and Canada bal- sagnaenum, compound, 507 squill, 405 sulphate of fron, 405 zine, 405 nitrate of bismuth, 176 potassium, 471 and camphor, 471 silver, 147 nux vonica, 409 compound, 409 extract, 409 opium, 419 and acetate of lead, 420 mercury, 420 butter of cacao, 420 camphor, 420 camphor, 420 hemboak, 419 liquorice, 421 foxglove, 420 nitrate of silver, 420 sulphate of zine, 420 nitrate of silver, 420 sulphate of zine, 420 nitrate of silver, 420 sulphate of zine, 420 sulphate of zine, 420 nitrate of silver, 420 sulphate of zine, 420 sulphate, 420 sulphate, 420 sulphate, 420 sulphate, 420 sulphate, 420 sulph			
musk, 402 myrrh and Canada balsam, 405 squill, 405 sulphate of iron, 405 zine, 405 nitrate of bismuth, 176 potassium, 471 and camphor, 471 silver, 147 nux vomica, 409 and aloes, 409 compound, 409 extract, 409 opium, 419 and acetate of lead, 420 mercury, 420 butter of cacao, 420 castor, 421 foxglove, 420 hemlock and calo-mel, 420 mulk, 420 mitrate of silver, 421 muk, 420 mitrate of silver, 421 muk, 420 mitrate of silver, 421 muk, 420 mitrate of silver, 429 hembane, 419 liquorice, 421 muk, 420 mitrate of silver, 420 at oride, black, of iron, 294 silver, 148 zine, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 and ron, 451 and ron, 451 and ron, 451 poison oak, 574 proto-nitrate of mercury, 340 pressian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 propound, 507 salutis, 111 savine, 502 semmond, 521 compound, 521 soan and oxegall, 521 compound, 525 red, 531 sconpound, 523 colomel, 523 compound, 523 compound, 524 storax, 559 stramonium, 555 compound, 555 strychnia, 557 stimulant, 557 stimulant, 557 stimulant, 557 sulphate of bisner, 420 and hubarb, 297 compound, 488 with gentian, 488 sine, 203 syrup, clove, 264 Pinkroot, 551 extract, 101, 551 compound, 523 colomel, 523 compound, 523 compound, 524 storax, 559 stramonium, 555 compound, 525 strychnia, 557 stimulant, 557 stimulant, 557 stimulant, 557 sulphate of bisner, 420 and opium, 260 cinchonia, 233 copper, 260 compound, 297 compound, 488 with gentian, 488 with gentian, 488 with gentian, 488 sine, 203 syrup, clove, 264 Pinkroot, 551 extract, 101, 51 infusion, 551 poina, 523 colomel, 523 compound, 524 storax, 557 stimulant, 557 storamonium, 290 co			The second secon
myrrh and Canada bals squill, 405 squill, 405 squill, 405 sulphate of iron, 405 zinc, 405 nitrate of bismuth, 176 potassium, 471 and camphor, 471 silver, 147 nux vomica, 409 opium, 419 opium, 419 opium, 419 opium, 420 and acetate of lead, 420 mercury, 420 butter of caco, 420 camphor, 420 camphor, 420 canbor, 420 hemboak and calomel, 523 compound, 524 stramonium, 555 compound, 524 storax, 559 strimulant, 557 stimulant, 557 stimulant, 557 stimulant, 557 stimulant, 557 stimulant, 557 sulphate of beheerina, 406 pills, 443 pilsi, 211 potassium, 474 quinia, 486 sodium, compound, 598 piperina, 440 pipsissewa, 221 plummers, 336 podophyllin, compound, 451 and iron, 451 and ron, 451 and ox-gall, 521 compound, 515 sona and ipecacuanha, 545 rhubarb, 544 soot, 301 squil and ammoniac, 523 compound, 523 henbane, 523 compound, 524 storax, 559 stramonium, 555 compound, 557 stimulant, 557 sulphate of beheerina, 400 and or-gall, 521 compound, 515 and calomel, 521 savine, 522 compound, 523 compound, 521 and calomel, 523 compound, 525 compound, 523 decotron 0il, 523 decotron 20 akalaine, 220 extract, 221 fluid, 521 extract, 221 flu			
sam, 405 squill, 405 sulphate of iron, 405 nitrate of bismuth, 176 potassium, 471 and camphor, 471 sliver, 147 nux vomica, 409 compound, 409 compound, 409 opium, 419 and acetate of lead, 420 castor, 421 foxglove, 420 hemboane, 420 camphor, 420 castor, 421 foxglove, 420 hemboane, 419 liquorice, 421 musk, 420 mitrate of silver, 422 sulphate of zine, 420 sulphuret antimony, 419 sulphuret of silver, 420 sulphuret antimony, 420 sulphuret, 420 sulphuret antimony, 420 sulphuret antimony, 420 sulphuret antimony, 420 sulphuret antimony, 420 sulphuret, 420 sulphuret antimony, 420 sulphuret, 420 sulphuret antimony, 420 sulphuret, 420 su	myrrh and Canada bal-		
sulphate of iron, 405 nitrate of bismuth, 176 postassium, 471 and camphor, 471 silver, 147 nux vomica, 409 and aloes, 409 opium, 419 opium, 419 opium, 420 opium, 420 dearthor, 420 camphor, 420 camphor, 420 camphor, 420 camphor, 420 camphor, 420 camphor, 421 foxglove, 420 nitrate of silver, 420 mirate of silver, 420 sulphate of zinc, 420 sulphate of zinc, 420 sulphuret antimony, 419 sulphuret antimony, 420 sulphate of piers, 420 oxide, black, of iron, 294 silver, 148 zinc, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphoric acid, 98 piperina, 440 proto-initrate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 and opium, 525 compound, 515 soda and ipeaceauanha, 545 roda and ipeaceaunha, 545 remta, 521 semmo, 521 seamony, 521 soda and ipeaceaunha, 545 roda and ipeaceaunha, 545 roda and ipeaceaunha, 545 remta, 523 croton oil, 523 recton oil, 523 rec	sam, 405	salutis, 111	
zinc, 405 nitrate of bismuth, 176 potassium, 471 and camphor, 471 silver, 147 nux vomica, 409 compound, 409 extract, 409 opium, 419 and acetate of lead, 420 mercury, 420 butter of caco, 420 camphor, 420 cantopor, 420 cantopor, 420 hembock and calomed, 420 nitrate of silver, 420 nitrate of silver, 420 nitrate of silver, 420 sulphate of zinc, 520 sulphuret antimon, 14, 409 and mercury, 440 potassium, 470 quinia, 486 with gentian, 486 with gentian, 486 with gentian, 486 sodium, compound, 548 sinc, 550 compound, 523 copon onl, 523 decortion il, 523 decortion, 220 alkaline, 220 siphate, 421 pills, 443 pills, 44		savine, 504	
nitrate of bismuth, 176 potassium, 471 and camphor, 471 silver, 147 nux vomica, 409 and aloes, 409 compound, 409 extract, 409 opium, 419 opium, 420 opium, 420 and acetate of lead, 420 mercury, 420 butter of cacao, 420 camphor, 421 foxglove, 420 hemboane, 419 liquorice, 421 musk, 420 nitrate of silver, 420 sulphate of zinc, 420 sulphate of zinc, 420 exide, black, of iron, 294 gold, 162 red, of iron, 294 silver, 148 zinc, 590 compound, 502 sulphate of mercury, 340 phosphoric acid, 98 piperina, 440 pinissewa, 221 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipeissewa, 221 plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-intrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 prodophyllin, compound, 451 proto-intrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 podophyllin, compound, 451 poison oak, 574 proto-intrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 podophyllin, compound, 568 compound, 521 scan and ox-gall, 515 compound, 525 scal and ipecacuanha, 545 rhubarb, 544 soot, 301 suphard ox-gall, 515 compound, 523 pipecacuanha, 523 hechas, 529 emona, 521 sean and ox-gall, 515 compound, 523 pipecacuanha, 523 hechas, 623 recton oil, 523 pipecacuanha, 523 hechas, 623 recton oil, 523 pipecacuanha, 523 henbane, 524 storax, 590 stramonium, 555 strychnia, 557 sulphate of bebeerina, 169 cinchonia, 233 copper, 260 and optum, 297 morphia, 401 pills, 440 pills, 440 pills, 440 pills, 440 pills, 441 pills, 441 compound, 551 Piperina, 440 pills, 440 pills, 440 pills, 441 pills, 441 pills, 441 compound, 551 piperina, 440 pills, 440 pills, 441 pills, 441 pills, 441 compound, 542 stract, 221 piperina, 440 pills, 440 pills, 440 pills, 440 pills, 441 pills, 441 compound, 551 pinenal, 545 piperina, 440 pills, 440 p			
seneka, 529 and camphor, 471 silver, 147 nux vomica, 409 and aloes, 409 compound, 409 opium, 419 and acetate of lead, 420 mercury, 420 butter of cacao, 420 castor, 421 foxglove, 420 hemlock and calomel, 420 mel, 420 nitrate of silver, 420 mitrate of silver, 420 sulphate of zinc, 590 paullinia, 434 peruvian bark, extract, 228 phosphoric acid, 98 piperina, 440 and mercury, 440 silver, 142 sinc, 590 paullinia, 434 phosphoric acid, 98 piperina, 440 and mercury, 440 silver, 142 sinc, 590 paullinia, 434 phosphoric acid, 98 piperina, 440 sodia and ipecacuanha, 545 rhubarb, 544 scomound, 515 soda and ipecacuanha, 545 rhubarb, 544 spicacuanha, 523 compound, 551 stramonium, 553 stramonium, 555 compound, 555 stromina, 523 compound, 550 strimulant, 557 sulphate of bebeerina, 169 cinchonia, 233 copper, 260 and opium, 260 compound, 297 morphia, 401 potassium, 474 quinia, 486 compound, 541 and ipecacuanha, 543 pipeacaunha, 523 rectoon oil, 523 pipeacaunha, 523 rectoon oil, 523 compound, 551 stramonium, 555 stramonium, 555 stromonia, 523 compound, 515 squill and ammoniac, 523 sellomel, 523 compound, 515 squill and ammonia, 523 spipeacaunha, 523 spipeacaunha, 523 spipeacaunha, 523 rectoon oil, 523 spipeacaunha, 523 sp			
silver, 147 nux vomica, 409 and aloes, 409 compound, 409 extract, 409 opium, 419 and acetate of lead, 420 mercury, 420 butter of cacao, 420 camphor, 420 camphor, 420 camphor, 420 camphor, 420 hemlock and calomel, 420 hemlock and calomel, 420 hemboane, 419 liquorice, 421 musk, 420 nitrate of silver, 420 sulphare of zinc, 420 exilphate of zinc, 420 exilphate of zinc, 420 sulphare of zinc, 420 su			savine, 551
silver, 147 nux vomica, 409 compound, 409 compound, 409 opium, 419 and acetate of lead, 420 mercury, 420 butter of cacao, 420 camphor, 420 camphor, 420 henbane, 419 liquorice, 421 musk, 420 nitrate of silver, 420 sulphare tantimony, 420 sulphare tantimony, 420 sulphare tantimony, 420 sulphare for icn, 420 sulphare for icn, 294 silver, 148 zinc, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipeissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 practive mercurial, 329 red iodide of mercury, 338 practice, 440 soot, 301 squill and ammoniac, 523 compound, 552 scalomel, 523 corton oil, 523 compound, 552 strychnia, 557 sulphate, 557 sulphate of bebeerina, 169 cinchonia, 233 copper, 260 and opium, 260 compound, 260 compound, 260 compound, 260 compound, 260 compound, 486 with gentian, 486 compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 554 strychnia, 557 sulphate of bebeerina, 169 cinchonia, 233 copper, 260 and opium, 260 compound, 260 compound, 260 compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 480 with gentian, 486 compound, 481 plaster, 440 cand mercury, 40 pipissewa, 221 pills, 221 pills, 221 p			
ominum vomica, 409 and aloes, 409 compound, 409 extract, 409 opium, 419 and acetate of lead, 420 mercury, 420 butter of cacao, 420 camphor, 420 camphor, 420 hemboane, 419 liquorice, 421 musk, 420 mitrate of silver, 420 sulphare of zinc, 420 sulphare, 420 sulphare of zinc, 420 sulphare			
soda and ipecacuanha, 545 rhubarb, 544 soot, 301 squill and ammoniac, 523 calomel, 523 croton oil, 523 ipecacuanha, 523 herbane, 523 croton oil, 523 ipecacuanha, 523 herbane, 524 compound, 525 herbane, 524 storax, 559 stramonium, 525 compound, 555 strychnia, 557 stimulant, 557 stimulant, 557 stimulant, 557 stimulant, 557 stimulant, 557 stimulant, 557 sulphate of bebeerina, 169 iron, 297 sulphate of zinc, 420 and rhubarb, 297 compound, 280 iron, 297 sulphate of silver, 420 sulphate of zinc, 420 sulphate of zinc, 420 sulphate of zinc, 420 sulphate of zinc, 420 silver, 148 zinc, 590 compound, 590 paullinia, 434 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipeissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 rooton oil, 523 calomel, 523 croton oil, 523 pipeacauanha, 523 herbane, 524 compound, 525 strychnia, 527 stimulant, 557 sulphate of bebeerina, 169 cinchonia, 233 copper, 260 and orium, 260 compound, 260 iron, 297 compound, 297 compound, 297 compound, 297 compound, 297 compound, 420 vith myrrh, 591 turpertine, 591 sulphuret of antimony, 140 and ime, 142 calcium, compound, 441 red, 345 potassium, 475 potassium, 475 potassium, 475 potassium, 475 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 rooton oil, 523 pipeacauanha, 523 herbane, 524 compound, 525 stramonium, 525 compound, 525 strychnia, 527 stimulant, 557 sulphate of bebeerina, 169 cinchoia, 233 copper, 260 and orium, 260 compound, 260 iron, 297 compound, 297 morphia, 401 pipeissewa, 221 pills, 443 pills, 443 pills, 441 pills, 441 coreate, 441 pills, 441 aromatic, 442 red, 345 potassium, 476			
compound, 409 extract, 409 opium, 419 and acetate of lead, 420 mercury, 420 butter of cacao, 420 camphor, 420 castor, 421 foxglove, 420 hemlock and calomel, 420 hemboane, 419 liquorice, 421 musk, 420 nitrate of silver, 420 sulphate of zinc, 4			
opium, 419 and acetate of lead, 420 mercury, 420 butter of cacao, 420 camphor, 420 camphor, 420 hemlock and calomel, 523 henbane, 524 compound, 525 hembane, 419 liquorice, 421 musk, 420 sulphate of silver, 420 soroax, 559 stramonium, 555 compound, 555 strychnia, 557 sulphate of bebeerina, 169 compound, 260 iron, 297 and rinubarb, 297 compound, 297 morphia, 401 potassium, 474 quinia, 486 sodium, compound, 548 solium, compound, 54			Piperina, 440
squill and ammoniac, 523 calomel, 523 recton oil, 523 ipecacuanha, 523 henbane, 524 compound, 524 stramonium, 555 compound, 555 strychnia, 557 sulphate of beheerina, 169 liquorice, 421 musk, 420 nitrate of silver, 420 sulphate of zinc, 420 su			
A cotate of lead, 420	extract, 409		
mercury, 420 butter of cacao, 420 camphor, 420 camphor, 420 camphor, 421 foxglove, 420 hemback and calomel, 420 hembane, 419 liquorice, 421 musk, 420 nitrate of silver, 420 sulphate of zinc, 420 oxide, black, of iron, 294 gold, 162 red, of iron, 294 silver, 148 zinc, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 piperina, 440 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 and iron, 451 and iron, 451 pioson oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 production of accao, 420 storax, 559 compound, 555 strychnia, 557 sulphate of bebeerina, 169 cinchonia, 233 copper, 260 and opium, 260 compound, 260 iron, 297 and rhubarb, 297 compound, 297 morphia, 401 potassium, 474 quinia, 486 compound, 486 with gentian, 486 sodium, compound, 591 with myrrh, 591 turpentine, 591 sulphuret afantimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 475 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 tobacco, 566	opium, 419	calomel, 523	tincture, 440
mercury, 420 butter of cacao, 420 camphor, 420 camphor, 420 castor, 421 foxglove, 420 hembane, 419 liquorice, 421 musk, 420 nitrate of silver, 420 sulphate of zinc, 420 sulphate of zinc, 420 sulphate of zinc, 420 aromatic, 420 oxide, black, of iron, 294 silver, 148 zinc, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 piperina, 440 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 production of cacao, 420 storax, 559 stramonium, 555 compound, 555 strychnia, 557 sulphate of beheerina, 169 cinchonia, 233 copper, 260 and opium, 260 compound, 260 compound, 260 compound, 297 and rhubarb, 297 compound, 297 morphia, 401 potassium, 474 quinia, 486 compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 591 with myrrh, 591 turpentine, 591 sulphate of cinchonia, 233 copper, 260 and opium, 220 compound, 221 extract, 221 pills, 221 syrup, 221 Pitch, black, 443 pills, 443 Burgundy, 441 compound, 441 irritating, 441 canda, 442 la plaster, 443 pointment, 443 pills, 443 plaster, 441 canda, 442 canda, 442 plaster, 441 plaster, 4		eroton oil, 523	
butter of cacao, 420 camphor, 420 castor, 421 foxglove, 420 hemlock and calomel, 420 henbane, 419 liquorice, 421 musk, 420 nitrate of silver, 420 sulphate of zine, 294 silver, 148 zine, 590 compound, 524 stramonium, 555 compound, 555 strychnia, 557 stimulant, 560 compound, 260 compound, 260 compound, 260 compound, 486 with gentian, 486 sodium, compound, 548 tive tantie, 441 comatic, 420 sadesive, 439 Buaylory, 421 spills, 442 compo			
storax, 559 castor, 420 castor, 421 foxglove, 420 hemlock and calomel, 420 henbane, 419 liquorice, 421 musk, 420 nitrate of silver, 420 sulphate of zine, 420 sulphate of zine, 420 sulphate of zine, 420 soide, black, of iron, 294 gold, 162 red, of iron, 294 silver, 148 zinc, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 purgative mercurial, 329 red iodide of mercury, 338			
camphor, 420 castor, 421 foxglove, 420 hemlock and calomel, 420 henbane, 419 liquorice, 421 musk, 420 nitrate of silver, 420 sulphate of zine, 420 oxide, black, of iron, 294 silver, 148 zine, 590 compound, 580 yallinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipeissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  stramonium, 555 compound, 555 strychnia, 557 sulphate of bebeerina, 169 cinchonia, 233 copper, 260 and opium, 260 compound, 260 iron, 297 and rhubarb, 297 compound, 486 with gentian, 486 sodium, compound, 548 zine, 590 compound, 591 with myrrh, 591 sulphuret of antimony, 140 and line, 142 calcium, compound, 548 zine, 590 sodium, compound, 548 sodium, compound, 548 zine, 590 sodium, compound, 548 sodium, compound, 548 zine, 590 sodium, compound, 548 zine, 591 sulphuret of antimony, 140 and line, 142 calcium, compound, 475 tannic acid, 100 and opium, 260 compound, 486 with peitser, 441 pilster, 441 cerate, 441 pils			
compound, 555 foxglove, 420 hemlock and calomel, 420 hembane, 419 liquorice, 421 musk, 420 nitrate of silver, 420 sulphate of zinc, 420 sulphuret antimony, 419 aromatic, 420 oxide, black, of iron, 294 gold, 162 red, of iron, 294 silver, 148 zinc, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  eompound, 555 strychnia, 557 stimulant, 557 sulphate of bebeerina, 169 cinchonia, 233 copper, 260 and opium, 260 compound, 260 iron, 297 and rhubarb, 297 compound, 486 compound, 486 with gentian, 486 compound, 486 with gentian, 486 compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 475 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartaremetic and camphor, 143 guaiacum, 143 guaiacum, 143 prischedard, 443 pills, 221 syrup, 221 Pitch, black, 443 ointment, 443 plaster, 443 Burgundy, 441 cerate, 441 pills, 441 cerate, 441 pills, 441 cerate, 441 pills, 441 cerate, 441 pills, 441 cerate, 441 compound, 456 with gentian, 486 sodium, compound, 590 pound, 297 morphia, 401 potassium, 478 compound, 486 with gentian, 486 sodium, compound, 590 laterial and iron, 451 syrup, 221 Pitch, black, 443 plaster, 443 plaster, 443 Plasters, 678 Plasters, 678 Plasters, 678 Plaster, 678 Plasters, 648 Canada, 442 candium, 123 ammonia, 123 ammonia, 123 ammonia, 121 with hemlock, 121 with hemlock, 121 with field of hemcury, 140 potassium, 143 compound, 446 carda, 442 calcium, oampound			
foxglove, 420 hemlock and calomel, 420 henbane, 419 liquorice, 421 musk, 420 nitrate of silver, 420 sulphate of zinc, 420 sulphuret antimony, 419 aromatic, 420 oxide, black, of iron, 294 gold, 162 red, of iron, 294 silver, 148 zinc, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 red iodide of mercury, 338 rimulant, 557 sulphate of bebeerina, 169 cinchonia, 233 copper, 260 and opium, 260 compound, 260 iron, 297 morphia, 401 potassium, 474 quinia, 486 compound, 486 with gentian, 486 sodium, compound, 486 with gentian, 486 sodium, compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 475 tannic acid, 100 and opium, 260 compound, 297 morphia, 401 potassium, 474 quinia, 486 sodium, compound, 548 zinc, 590 compound, 486 with gentian, 486 sodium, compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 474 potassium, 474 quinia, 486 sodium, compound, 548 zinc, 590 compound, 486 with gentian, 486 sodium, compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 486 with gentian, 486 sodium, compound, 486 with gentian, 486 sodium, compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 475 tanic ide of each, 447 and lime, 142 calcium, compound, 188 black eyen, 441 cearate, 441 comotate, 4			
hemlock and calomel, 420 henbane, 419 liquorice, 421 musk, 420 nitrate of silver, 420 sulphate of zinc, 420 sulphate of zinc, 420 sulphate of zinc, 420 oxide, black, of iron, 294 gold, 162 red, of iron, 294 silver, 148 zinc, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 piperina, 440 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 338 purgative mercurial, 329 red iodide of mercury, 338 pragative mercurial, 329 red iodide of mercury, 338 pragative mercurial, 329 red iodide of mercury, 338 simulant, 557 sulphate of bebeerina, 169 cinchonia, 233 copper, 260 and opium, 260 compound, 260 iron, 297 and rhubarb, 297 compound, 297 morphia, 401 potassium, 474 quinia, 486 compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 3 pills, 443 pills, 443 lorente, 441 cerate, 441 pills, 441 compound, 441 compound, 441 compound, 441 aromatic, 441 compound, 441 compound, 441 aromatic, 441 compound, 441 compound, 441 aromatic, 441 pills, 441 compound, 441 compound, 441 aromatic, 441 pompound, 590 compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 441 pills, 441 cerate, 441 pills, 441 compound, 441 compound, 450 and biru, 486 sodium, compound, 548 zinc, 590 compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 486 balaster, 443 aromatic, 441 compound, 486 sodium, compound, 548 zinc, 590 compound, 590 adhesive, 489 Baynton's, 449 aconite, 163 adhesive, 489 Baynton's, 49 aconite, 163 adhesive, 489 Baynton's, 449 aconite, 163 adhesive, 489 Baynton's, 449 aconite, 163 adhesive, 489 Baynton's, 441 compound, 486 compound, 548 zinc, 590 compound, 591 with myrrh, 591 action, compound, 486 barel, 441 compound action, 441 compoun			
mel, 420 henbane, 419 liquorice, 421 musk, 420 nitrate of silver, 420 sulphate of zinc, 420 sulpharet antimony, 419 aromatic, 420 oxide, black, of iron, 294 gold, 162 red, of iron, 294 silver, 148 zinc, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 pipisissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 purgative mercurial, 329 red iodide of mercury, 338 sulphate of bebeerina, 169 cinchonia, 233 copper, 260 and opium, 260 compound, 260 compound, 260 red opium, 260 compound, 260 red opium, 260 compound, 260 red opium, 441 red valiaser, 441 plaster, 441 red canada, 442 plaster, 443 plaster, 443 red point opium, 466 red opium, 486 sodium, compound, 486 sodium, compound, 486 sodium, compound, 486 red opium, 486 red opium			
henbane, 419 liquorice, 421 musk, 420 nitrate of silver, 420 sulphate of zinc, 420 sulphate of zinc, 420 sulphate of zinc, 420 oxide, black, of iron, 294 gold, 162 red, of iron, 294 silver, 148 zinc, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 340 pripsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 and iron, 451 and iron, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 prigative mercurial, 329 red iodide of mercury, 338 poinm, 143 copper, 260 compound, 260 iron, 297 compound, 260 iron, 297 compound, 297 morphia, 401 potassium, 474 quinia, 486 compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 475 tannic acid, 100 and opium, 260 compound, 441 cerate, 441 pllaster, 441 irritating, 441 compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 476 black perper, 441 plaster, 441 plaster, 441 irritating, 441 compound, 486 with gentian, 486 sodium, compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 476 black perper, 441 plaster, 441 plaster, 441 plaster, 441 plaster, 441 plaster, 441 plaster, 441 potamia, 486 sodium, compound, 548 zinc, 590 compound, 591 with myrrh, 591 turpentine, 591 salmonia, 123 ammonia, 123 ammonia, 123 ammonia, 123 ammonia, 123 ammonia, 123 verial plaster, 441 plaster, 442 plaster, 678 plaster, acetate of lead, 447 aconite, 163 adhesive, 489 ammonia, 123 ammonia, 123 ammonia, 123 ammonia,			
liquorice, 421 musk, 420 nitrate of silver, 420 sulphate of zine, 420 sulphuret antimony, 419 aromatic, 420 oxide, black, of iron, 294 gold, 162 red, of iron, 294 silver, 148 zine, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 piperina, 440 and mercury, 440 pipisissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 rocoppound, 260 iron, 297 and rhubarb, 297 compound, 260 compound, 260 iron, 297 and rhubarb, 297 compound, 260 compound, 260 iron, 297 and rhubarb, 297 compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 591 with myrth, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 476 compound, 260 compound, 486 with gentian, 486 sodium, compound, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 120 and lime, 142 calcium, compound, 120 and lime, 142 calcium, compound, 120 and lime, 142 calcium, compound, 123 ammonia, 123 ammonia, 123 ammonia, 121 with hemlock, 121 mercury, 121 arnica, 156 balsam of Peru, 165 belladonna, 173 biniodide of potassium, 470 black pepper, 440 pith, 443 Burgandy, 441 cerate, 441 plaster, 441 compound, 441 irritating, 441 Canada, 442 Plasters, 678 Plasters, 678 Plasters, 678 Plaster, 294 adhesive, 489 amonia, 121 with hemlock, 121 arnica, 156 balsam of Peru, 165 belladonna, 173 biniodide of potassium, 470 black pepper, 440 pith, 441 compound, 441 irritating, 441 canada, 442 Plasters, 678 Plasters, 678 Plasters, 678 Plasters, 678 Plasters, 678 Plasters, 678 Plaster, 443 burgative in compound, 548 adhesive, 489 ammonia, 123 ammonia, 123 ammonia, 123 ammonia, 123 ammonia, 124 calcium, compound, 475 tannic acid, 100 potassium, 475 compound, 486 compound, 486 compound, 496 compound, 591 compound, 441 cantal, 466 compound, 496 compound, 591 compound, 447 calcium, com			
nitrate of silver, 420 sulphate of zinc, 420 sulphuret antimony, 419 aromatic, 420 oxide, black, of iron, 294 gold, 162 red, of iron, 294 silver, 148 zinc, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 purgative mercurial, 329 red iodide of mercury, 338  nitrate of zinc, 297 compound, 297 morphia, 401 potassium, 474 quinia, 486 with gentian, 486 with gentian, 486 with gentian, 486 sodium, compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 475 compound, 475 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 guaiacum, 143 poison dak, 574 tartar emetic and camphor, 143 guaiacum, 143 poison dak, 574 cerate, 441 pills, 441 compound, 441 irritating, 441 Canada, 442 Plaster, acetate of lead, 447 aconite, 103 adhesive, 489 mercury, black, 344 red, 345 potassium, 475 compound, 275 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 opium, 143 guaiacum, 143 guaiacum, 143 opium, 143 turpentine, 591 mercury, black, 344 red, 345 potassium, 476 compound, 486 with gentian, 486 with gentian, 486 adhesive, 489 Plaster, acetate of lead, 447 aconite, 103 adhesive, 489 hamoniac, 121 with hemlock, 121 mercury, 121 arnica, 150 assafetida, 156 balsam of Peru, 165 belladonna, 173 biniodide of potassium, 470 black pepper, 440 cantharides, 200 campound, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium, 140 calcium, compound, 141 and iron, 442 calcium, compound, 143 balsa	liquorice, 421	copper, 260	pills, 443
sulphate of zinc, 420 sulphare antimony, 419 aromatic, 420 oxide, black, of iron, 294 gold, 162 red, of iron, 294 silver, 148 zinc, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338 pred iodide of mercury, 338 ricon, 297 and rhubarb, 297 compound, 297 morphia, 401 potassium, 474 quinia, 486 sodium, compound, 548 zinc, 590 compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 475 compound, 475 tannic acid, 100 and opium, 100 tarsy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 guaiacum, 143 proto-nitrate of mercury, 338 robacco, 566			
sulphate of zinc, 420 sulphuret antimony, 419 aromatic, 420 oxide, black, of iron, 294 gold, 162 red, of iron, 294 silver, 148 zinc, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  sulphuret antimon, 297 morphia, 401 potassium, 474 quinia, 486 compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 475 compound, 297 morphia, 401 potassium, 474 quinia, 486 compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 475 compound, 486 compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 590 paullinia, 434 zinc, 590 compound, 591 with myrrh, 591 turpentine, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 475 compound, 486 compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 475 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 Burgundy pitch, 441 comopound, 441 comopound, 441 comopound, 486 with gentian, 486 sodium, compound, 590 plaster, acetate of lead, 447 aconite, 102 adhesive, 489 Baynton's, 449 baynton's, 440 calcium, compound, 183 biniodide of potassium, 470 black pepper, 440 cantharides, 200 campound, 200 compound, 200 compound, 411 calcium, compound, 475 tannic acid, 100 cando quital device of a samoniae, 121 calcium, compound, 475 tannica, 150 assafetida, 156 balsam of	CONTRACTOR OF THE PROPERTY OF		
sulphuret antimony, 419 aromatic, 420 oxide, black, of iron, 294 gold, 162 red, of iron, 294 silver, 148 zinc, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipeissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 and iron, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  compound, 297 morphia, 401 potassium, 474 quinia, 486 compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and line, 142 calcium, compound, 123 adhesive, 489 Baynton's, 449 ammonia, 123 ammoniae, 121 with hemlock, 121 mercury, 121 arnica, 150 assafetida, 156 balsam of Peru, 165 belladonna, 173 biniodide of potassium, 470 black pepper, 440 pitch, 443 Burgundy pitch, 441 Canet's, 294 cantharides, 200 campound, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium,			
morphia, 401 potassium, 474 quinia, 486 compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  morphia, 401 potassium, 474 quinia, 486 compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 591 with myrrh, 591 turpentine, 391 with myrrh, 591 turpentine, 391 mercury, black, 344 red, 345 potassium, 475 compound, 474 compound, 441 irritating, 441 Canada, 442 Plaster, accetate of lead, 447 adhesive, 489 Baynton's, 449 ammonia, 123 ammonia, 121 with hemlock, 121 mercury, 121 arnica, 150 assafetida, 156 balsam of Peru, 165 belladonna, 173 biniodide of potassium, 470 black pepper, 440 pitch, 443 Burgundy pitch, 441 Caneta, 442 canda, 442 Plaster, accetate of lead, 447 aconite, 103 adhesive, 489 Baynton's, 449 ammonia, 123 ammonia, 123 suphuret of antimony, 140 and lime, 142 calcium, compound, 548 red, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 548 red, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 475 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 opium, 143 poison oak, 574 proto-nitrate of mercury, 338 tobacco, 568 tar, 442 cantharides, 200 compound, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium,			
ny, 419 aromatic, 420 oxide, black, of iron, 294 gold, 162 red, of iron, 294 silver, 148 zinc, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  red, of iron, 294 solium, compound, 486 sodium, compound, 598 sodium, compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 474 guinia, 486 compound, 486 with gentian, 486 sodium, compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 474 guinia, 486 Canada, 442 Plaster, acetate of lead, 447 aconite, 103 adhesive, 489 Baynton's, 449 ammonia, 123 amical, 150 assafetida, 156 balsam of Peru, 165 belladonna, 173 biniodide of potassium, 470 black pepper, 440 pitch, 443 Burgundy pitch, 441 Canet's, 294 cantharides, 200 compound, 200 odontalgic, 200 perpetual, 200 compound, 2591 compound, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 red, office of lead, 447 aconite, 103 adhesive, 489 Baynton's, 449 ammonia, 123 ammonia, 123 ammonia, 123 ammonia, 124 calcium, compound, 188 mercury, black, 344 red, 345 red,		morphia 401	aromatic 441
oxide, black, of iron, 294 gold, 162 red, of iron, 294 silver, 148 zinc, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphoric acid, 98 piperina, 440 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  and opium, 143 pred iodide of mercury, 338  quinia, 486 compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 591 with myrrh, 591 turpentine, 486 sodium, compound, 548 zinc, 590 adhesive, 489 Baynton's, 449 ammonia, 123 ammonia, 121 with hemlock, 121 mercury, 121 and opium, 100 assafetida, 156 balsam of Peru, 165 belladonna, 173 biniodide of potassium, 470 black pepper, 440 pitch, 443 Burgundy pitch, 441 Canada, 442 Plasters, 678 Plaster, acetate of lead, 447 aconite, 163 adhesive, 489 Baynton's, 449 ammonia, 123 ammoniac, 121 with hemlock, 121 mercury, 121 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 opium, 143 opium, 143 tompound, 590 compound, 590 baynton's, 449 amd line, 142 calcium, compound, 188 mercury, black, 344 red, 345 red, 345 belladonna, 173 biniodide of potassium, 470 black pepper, 440 cantharides, 200 compound, 200 compound, 200 compound, 200 compound, 591 compound, 591 turpentine, 591 adhesive, 489 baynton's, 449 amd line, 142 calcium, compound, 188 mercury, black, 344 red, 345 tarnica, 166 balsam of Peru, 165 belladonna, 173 biniodide of potassium, 470 black pepper, 440 pitch, 443 Burgundy pitch, 441 Canada, 442 cancium, 200 compound, 591 ammonia, 123 ammonia, 123 ammonia, 123 ammonia, 123 ammonia, 123 ammonia, 123 ammonia, 124 calcium, compound, 188 assafetida, 156 balsam of Peru, 165 belladonna, 173 biniodide of potassium, 470 black pepper, 440 compound, 475 balsamoni			
oxide, black, of iron, 294 gold, 162 red, of iron, 294 silver, 148 zinc, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  compound, 486 with gentian, 486 sodium, compound, 548 zinc, 590 compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and line, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 475 compound, 475 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 opium, 143 red iodide of mercury, 338 tobacco, 566  Canada, 442 Plaster, acetate of lead, 447 aconite, 163 adhesive, 489 Baynton's, 449 ammonia, 123 ammonia, 121 with hemlock, 121 mercury, 121 arnica, 150 assafetida, 156 balsam of Peru, 165 belladonna, 173 biniodide of potassium, 470 black pepper, 440 pitch, 443 Burgundy pitch, 441 Canet's, 294 cantharides, 200 campound, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium,			
gold, 162 red, of iron, 294 silver, 148 zinc, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 riperina, 440 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  with gentian, 486 sodium, compound, 548 zinc, 590 compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 475 compound, 475 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 purgative mercurial, 329 red iodide of mercury, 338  with gentian, 486 sodium, compound, 548 zinc, 590 compound, 591 with myrrh, 591 turpentine, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 142 red, 345 potassium, 475 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 opium, 143 tobacco, 566  Plasters, 678 Plaster, 163 adhesive, 489 ammonia, 123 ammoniac, 121 with hemlock, 121 arnica, 150 assafetida, 156 belladonna, 173 biniodide of potassium, 470 black pepper, 440 pitch, 443 Burgundy pitch, 441 Canet's, 294 cantharides, 200 compound, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium,			
silver, 148 zinc, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  zinc, 590 compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 475 compound, 475 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 purgative mercurial, 329 red iodide of mercury, 338  zinc, 590 compound, 591 with myrrh, 591 with myrrh, 591 ammonia, 123 ammonia, 121 with hemlock, 121 mercury, 121 arnica, 150 assafetida, 156 balsam of Peru, 165 belladonna, 173 biniodide of potassium, 470 black pepper, 440 pitch, 443 Burgundy pitch, 441 Canet's, 294 cantharides, 200 campound, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium,	gold, 162		
compound, 590 compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  compound, 591 with myrrh, 591 turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 475 compound, 475 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 purgative mercurial, 329 red iodide of mercury, 338  compound, 591 with myrrh, 591 ammonia, 123 ammoniac, 121 with hemlock, 121 mercury, 121 arnica, 150 assafetida, 156 balsam of Peru, 165 belladonna, 173 biniodide of potassium, 470 pitch, 443 Burgundy pitch, 441 Canet's, 294 cantharides, 200 compound, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium,		sodium, compound, 548	
compound, 590 paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  mercury, black, 344 red, 345 potassium, 475 compound, 475 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 340  Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  mercury, black, 344 red, 345 potassium, 475 compound, 475 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 opium, 143 tobacco, 566  mercury, 591 memcury, 121 and lime, 142 and lime, 142 and lime, 142 bassafetida, 156 balsam of Peru, 165 belladonna, 173 biniodide of potassium, 470 black pepper, 440 pitch, 443 Burgundy pitch, 441 Canet's, 294 cantharides, 200 camphorated, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium,			
paullinia, 434 Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  turpentine, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 475 compound, 475 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 opium, 143 tobacco, 566  ammonia, 123 ammonia, 123 ammoniac, 121 with hemlock, 121 mercury, 121 arnica, 150 assafetida, 156 balsam of Peru, 165 belladonna, 173 biniodide of potassium, 470 black pepper, 440 pitch, 443 Burgundy pitch, 441 Canet's, 294 cantharides, 200 compound, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium,			
Peruvian bark, extract, 228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  Peruvian bark, extract, 591 sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 475 compound, 475 tannic acid, 100 and opium, 100 assafetida, 156 balsam of Peru, 165 belladonna, 173 biniodide of potassium, 470 black pepper, 440 pitch, 443 Burgundy pitch, 441 Canet's, 294 cantharides, 200 compound, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium,			
228 phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 349 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  sulphuret of antimony, 140 and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 475 compound, 475 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 opium, 143 opium, 143 opium, 143  tobacco, 566  with hemlock, 121 mercury, 121 arnica, 150 assafetida, 156 balsam of Peru, 165 belladonna, 173 black pepper, 440 pitch, 443 Burgundy pitch, 441 Canet's, 294 cantharides, 200 compound, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium,			
phosphate of mercury, 344 phosphoric acid, 98 piperina, 440 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  and lime, 142 calcium, compound, 188 mercury, black, 344 red, 345 potassium, 475 compound, 475 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 opium, 143 calcium, compound, assafetida, 156 balsam of Peru, 165 belladonna, 173 black pepper, 440 pitch, 443 Burgundy pitch, 441 Canet's, 294 cantharides, 200 camphorated, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium,			
phosphoric acid, 98 piperina, 440 and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  phosphoric acid, 98 arnica, 150 assafetida, 156 balsam of Peru, 165 belladonna, 173 biniodide of potassium, 470 black pepper, 440 pitch, 443 Burgundy pitch, 441 Canet's, 294 cantharides, 200 camphorated, 200 compound, 200 perpetual, 200 perpetual, 200 carbonate of ammonium,			
and mercury, 440 pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  mercury, black, 344 red, 345 potassium, 475 compound, 475 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 opium, 143 opium, 143 purgative mercurial, 329 red iodide of mercury, 338  mercury, black, 344 balsam of Peru, 165 belladonna, 173 biniodide of potassium, 470 pitch, 443 Burgundy pitch, 441 Canet's, 294 cantharides, 200 camphorated, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium,			
pipsissewa, 221 Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  red, 345 potassium, 475 compound, 475 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 opium, 143 opium, 143 perpetual, 200 carbonate of ammonium,	piperina, 440	188	assafetida, 156
Plummer's, 336 podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  potassium, 475 compound, 475 tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 opium, 143 purgative mercurial, 329 red iodide of mercury, 338  potassium, 475 black pepper, 440 pitch, 443 Burgundy pitch, 441 Canet's, 294 cantharides, 200 camphorated, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium,		mercury, black, 344	
podophyllin, compound, 451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 opium, 143 opium, 143 tansic acid, 100 pitch, 443 Burgundy pitch, 441 Canet's, 294 cantharides, 200 camphorated, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium,			
451 and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  tannic acid, 100 and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 opium, 143 opium, 143 pitch, 443 Burgundy pitch, 441 Canet's, 294 cantharides, 200 camphorated, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium,			
and iron, 451 may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  and opium, 100 tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 opium, 143 opium, 143 cantharides, 200 camphorated, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium,			
may apple, 451 poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  tansy, 568 tar, 442 tartar emetic and camphor, 143 guaiacum, 143 opium, 143 opium, 143 tansy, 568 tar, 442 cantharides, 200 camphorated, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium,			
poison oak, 574 proto-nitrate of mercury, 340 Prussian blue, 288 purgative mercurial, 329 red iodide of mercury, 338  tar, 442 tartar emetic and camphor, 143 guaiacum, 143 opium, 143 opium, 143 tobacco, 566  cantharides, 200 camphorated, 200 odontalgic, 200 perpetual, 200 carbonate of ammonium,			
proto-nitrate of mercury, 340 tartar emetic and camphor, 143 compound, 200 compound, 200 purgative mercurial, 329 red iodide of mercury, 338 tobacco, 566 carbonate of ammonium,			
Prussian blue, 288 guaiacum, 143 compound, 200 odontalgic, 200 purgative mercurial, 329 red iodide of mercury, 338 tobacco, 566 carbonate of ammonium,		tartar emetic and camphor.	
Prussian blue, 288 guaiacum, 143 odontalgic, 200 purgative mercurial, 329 opium, 143 perpetual, 200 perpetual, 200 carbonate of ammonium,			
purgative mercurial, 329 opium, 143 perpetual, 200 carbonate of ammonium,	Prussian blue, 288		
		opium, 143	
oxide of mercury, 342   triplex, 328   127			
	oxide of mercury, 342	triplex, 328	121

Plaster, carbonate of lead, 448	Poiso
zine, 586 eastor, compound, 212	Poke,
chalybeate, 294	t
cinnamon, spice, 235 clove, 208	Polyg
court, 348	Poma
blistering, 201 eroton oil, 417	e H
eumin, 262	Pome
diapalma, 449 diachylon, compound, 304	b
elemi, cautery, 271	
euphorbium, 277	e
foxglove, 267 galbanum, 303	
compound, 304	g
Gaulthier's, 449 gum, 121, 304	Pomp
hemlock, 245	rou
compound, 245 iodide potassium, 468	Popp
iodine, 352	
ioduretted potassium, 470 iron, 283	
lead, 449	
Mahy's, 448	
mercurial, 330 and belladonna, 330	r
myrrh, 407	Portla
Nuremberg, 450 odontalgic, 200	Posol Posse
opium, 422	8
and camphor, 422 oxycroceum, 304	Potas
pellitory, 479	
petroleum, 435 pitch, 441	
aromatic, 441	
compound, 441 with cantharides, 200	
red oxide of iron, 294	c
resin, 489 soap, 515	v
spice, 235, 594	Potas
St. Andrew's, 489 subacetate of lead, 447	a
sulphate of quinia, 488	
sulphuret of antimony and	
lime, 142 potassium, comp., 477	
tartar emetic, 144	
turpentine, 572 compound, 572	
verdigris, 258	8
vigo with mercury, 490 warming, 200, 441	
wax, 216	1
Platina, 443 bichloride, 443	
mixture, 443	1
ointment, 444 pills, 443	1
Pleurisy root, 152	ì
infusion, 152 Plummer's alterative, 334	1
pills, 336	
Podophyllin, 451	
Poids de Marc, 21 Poison oak, 573	1
extract, 573	
pills, 574 tincture, 574	1
Poison for rats, etc., 600	1

```
ns, 687
438
intment, 438
incture, 438
   berries, 438
galic acid, 530
tum, 604
antharides, 201
Peruvian bark, 231
granate, 316
polus of root, 316
decoction of rind, 316
   root, 316
xtract of root, 316
        electuary, 316
        mixture, 316
gargle of rind, 316
njection of rind, 316
nade epispastique au ga-
1, 396
y heads, 432
   decoction, 432
   extract, 432
   injection, sedative, 433
   mixture, sedative, 433
   syrup, 432
        substitute for, 432
        pectoral, 432
ed, 496
and powder, 215
ogical table, 617
t, molasses, 610
ago, 507
sa, 452, 692
austic, 452
   collyrium, 452
   injection, 452
   lotion, stimulant, 452
   mixture, 452
   solution, 452
        lithontriptic, 452
hlorinated, 453
   solution, 453
with lime, 452
sium, 451
scillitie, 453
   bolus, 453
    conserve, 453
    liquid, 453
        mixture, 453
    mixture, 454
    pills, compound, 453
    tincture, 454
arseniate, 454
   mixture, 455
arsenite, solution, 454
bicarbonate, 455
    effervescing powders,
          455
        solution, 455
    mixture, 455
bichromate, 458
bisulphate, 455
    effervescing draught,
    disinfecting powder,
      455
bitartrate, 455
    dentifrice, 456
    electuary, 456
    imperial drink, 457
    mixture, 456
    oxymel, 456
```

```
Potassium, bitartrate, powder,
           456
         solution, 456
             compound, 456
    borate, 457
    borotartrate, 457
         and magnesium, 458
             mixture, 458
         mixture, 457
             and magnesium,
458
         pills, compound, 457
         powder, 457
         solution, 457
    bromide, 458
         ointment, 458
             compound, 458
    solution, 458
carbonate, 458
         and ammonium, 463
         collutory, 459
         collyrium, 459
         emulsion, 459
         fomentation, 459
         liniment, 459
         lotion, 460
         mixture, 460
         ointment, 461
         powder, 459
         pure, 459
         solution, 459
         tincture, 459
             compound, 460
    chlorate, 461
         gargle, 462
         injection, 462
         lozenges, 462
         powder, 461
             Stephen's, 461
         solution, 461
     chloride, 461
     citrate, 462
         effervescing draught,
           462
         mixture, 462
         solution, 462
             compound, 462
     cyanide, 462
         lotion, 463
         mixture, 463
         ointment, 463
         pills, 463
         solution, 463
         syrup, 463
     hydrargyro-iodide, 470
              ointment, 470
              pills, 470
              solution, 470
              syrup, 470
              tincture, 470
     hypophosphite, 185
     iodate, 465
         syrup, 465
     iodide, 465, 697
         and sarsaparilla, 466
         injection, 466
         liniment, 467
         lozenges, 465
         mixture, 466
         ointment, 467
             and mercury, 467
              morphia, 467
              opium, 467
         pills, 465
```

Potassium, iodide, plaster, 468 | Potassium, sulphuret, syrup, | soap, 468 475 solution, 466 compound, 475 syrup, 466 tincture, 475 and iron, 466 water, 475 ioduretted, 468 tartrate, 477 bath, 468 and ammonium, 464 collyrium, 469 mixture, 464 injection, 469 solution, 464 lotion, compound, 469 mixture, 477 mixture, 469 powder, and rhubarb, ointment, 469 477 and opium, 469 Potato, wild, 247 plaster, 470 Potion of carbonate of ammosolution, compound, nium, 126 352, 469 Riverus, 547 caustic, 469 Poudre subtile, 151 syrup, 469 temperante, 471 tincture, compound, Poultices, 674 351 Powders, 639 water, 468 compound, 639 Lugol's, 468 effervescing, 22, 102, 455, nitrate, 471 540 emulsion, 472 nitrous, 471 fused, 471 oleo-saccharated, 506 gargle, 472 saccharated, 506 lotion, 472 simple, 639 mixture, 472 Powder, acetate of lead, 444 pills, 471 morphia, comp., 398 with camphor, 471 aconite, compound, 102 paper, 472 agarie, 177 powder, 471 and opium, 177 with camphor, 471 algaroth, 139 orris root, 471 almond, 131 aloes, 108 squill, 471 purified, 471 and canella, 108 oxalate, 472 compound, 108 lozenges, 473 emmenagogue, 108 powder, 473 alum, 116 permanganate, 473 escharotic, 116 powder, disinfecting, ammoniated copper and 473 belladonna, 259 solution, 473 iron, 280 silicate, 473 animal charcoal, 204 soluble glass, 473 anthracokali, 205 solution, 473 compound, 205 sulphate, 473 antimonial, 140 and ammonium, 463 arnica, compound, 149 magnesium, 464 aromatic, 206 mixture, 474 arsenical, 88 pills, 474 arsenic, compound, 88 powder, 474 compound, Cosme's, 88 246 asarabacca, 152 and rhubarb, 474 avens, compound, 312 sulpho-cyanide, 474 belladonna, 170 sulphuret, 474 and rhubarb, 170 and cream of tartar, benzoic acid and ipecac-475 uanha, 89 bath, 476 benzoin, 173 bolus, 475 bicarbonate of potassium, electuary, 475 455 ferro-sulphuret, 475 sodium and magnesia, hyposulphited, 474 541 syrup, 475 injection, 476 bismuth, compound, 175 bitartrate of potassium, 456 lotion, 475 black oxide of iron, 294 sulphuret of mercury, compound, 476 mixture, 476 344 ointment, 477 borax, compound, 542 pills, 475 borotartrate of potassium, compound, 475 plaster, compound,477 bronze, 554 soap, 477 burnt sponge, 553 solution, 475 compound, 553

Powder, cacao, compound, 180 Calabar bean, 438 calomel and antimony, 334 jalap, 335 foxglove, 334 nitrate of potassium, 334 opium, 335 gamboge, 335 pinkroot, 335 antimony, and hen-bane, 334 jalap and rhubarb, 334 camphor, 191 compound, 192 cantharides and camphor, savine, 197 capuchin, 503 carbonate of lead, camphorated, 447 potassium, 459 sodium, effervescing, 541 and mercury, 545 rhubarb, 545 carburet of iron, 283 carrageen, compound, 225 cascarilla, compound, 209 castor, compound, 211 catechu, compound, 213 cevadilla, compound, 503 chalk, aromatic, 183 compound, 183 with opium, 184 charcoal and quassia, 204 chlorate of potassium, 461 chloride of barium, 168 gold, 160 and sodium, 160 silver, 146 cinnamon, compound, 234 cochineal, compound, 596 colocynth, compound, 242 columbo and iron, 190 magnesia, 190 tartrate of iron, 190 common salt and cochineal, 546 compound, 546 contrayerva, compound, coriander, compound, 250 corrosive sublimate and copper, 332 zinc, 332 cubebs, 255 and alum, 255 ergot, 255 hemlock, 255 cyanide of gold, 162 disinfecting, 455 Dover's, 354 eclectic, 429 emmenagogue, 405 ergot, compound, 273 extract of lettuce, 369 fennel, compound, 300 foxglove, 264 fumigating, 173, 345, 560 galls, compound, 304 gamboge compound, 306 gentian, compound, 308 ginger beer, 541

Powder, gold, 159 golden sulphuret of antimony, 142 guaiacum, compound, 317 hæmostatic, 489 hedge hyssop, 317 hemlock, 244 henbane, compound, 347 horse-chestnut, comp., 323 indigo, 350 iodide of barium, 168 lead, 448 mercury, 339 sulphur, 565 ipecae. and antimony, 355 calomel, 355 carbonate of sodium, 355 chloride of ammonium, 355 myrrh, 355 nitre, 355 opium, 354 rhubarb, 355 tartar emetic, 355 tragacanth, 355 jalap and calomel, 359 cream of tartar, 359 ipecacuanha, 359 scammony, 359 compound, 359 James's, 140 kermesine, 141 compound, 141 kino, compound, 363 lavender, compound, 371 lupulin, 378 madder, compound, 501 magnesia and orange-peel, 379 rhubarb, 379 sulphur, 379 male fern, 299 marsh mallow, 115 mercurial, compound, 326 metallic iron, 278 compound, 278 milk, 367 musk, 402 myrrh and ipecacuanha, 405 nitrate of potassium and camphor, 471 orris root, 471 squill, 471 compound, 471 nux vomica, 408 oak bark, compound, 481 opium and antimony, 419 camphor, 419 chalk, comp., 419 musk, 419 nitre, 419 sulphur, 419 roasted, 419 orange-peel and rhubarb, 157 orpiment, 151 oxalate of potassium, 473 oxide of gold, 162 manganese, 386 pancreatin, 431 Peruvian bark and arnica, camphor, 227

Powder, Peruvian bark and cas-Powder, sulphur and antimony, carilla, 226 isinglass, 227 valerian, 227 camphor, 562 cream of tartar, compound, 226 phloridzin, 436 liquorice, 562 phosphate of sodium, commagnesia, 562 pound, 548 orris root, 562 pinkroot and calomel, 551 compound, 562 savine, 504, 551 sulphuret of tin, 554 Portland, 215 tartar emetic, 142 Prussian blue, 288 and ipecacuanha, compound, 288 143 phosphate calred oxide of mercury, 342 sulphuret of mercury, eium, 143 quinia, 143 compound, 142 345 rhatany, compound, 364 rhubarb and chalk, 490 tartarized soda and rhumagnesia, 490 barb, 464 sulphate of potastartrate of iron and columsium, 491 bo, 286 compound, 491 effervescent, 287 potassium and rhusal ammoniae, 127 salep, compound, 607 barb, 477 salicin, compound, 507 tin, 553 saline, compound, 383 tobacco, 566 Stevens's, 461 tormentil, 573 santonin, 512 tragacanth, compound, 574 sarsaparilla and Peruvian uva ursi, compound, 576 bark, 516 valerian, compound, 577 savine and ginger, 504 verdigris and savine, 258 pinkroot, 504 wild ipecacuanha, 276 willow bark, comp., 508 Spanish flies, 504 verdigris, 504 white hellebore, 582 scammony and cream of zinc, oxide, 589 tartar, 521 soot, 521 and columbo, 589 compound, 589 cyanide, 587 compound, 521 Seidlitz, 464 ferrocyanide, 588 semen contra, 511 Precipitation, 640 seneka, compound, 529 Preservative liquid, 188 senna, and guaiacum, 531 Pressavin's vegeto-mercurial liquor, 346 compound, 531 soap, cosmetic, 513 Prickly ash, 585 decoction, 585 spermaceti, compound, 217 squill and calomel, 523 Pride of China, 164 Process for coating pills, 595 cream of tartar, 523 Proof spirit, 37 ipecacuanha, 523 Prophylactic vinegar, 87 nitre, 523 Prunes, 478 sulphur, 523 pulp, 478 compound, 523 Prussian blue, 288 ink, 288 starch, compound, 135 strychnia, compound, 557 mixture, 288 subcarbonate of iron, 282 ointment, 288 subnitrate of bismuth, 175 pills, 288 sulphate of copper, 260 powder, 288 compound, 260 compound, 288 iron, 297 Prussic acid, 93, 689 Pudding, arrowroot, 388 mercury, comp., 344 tapioca, 569 potassium and rhubarb, 474 Pulp of purging cassia, 210 compound, 474 tamarinds, 568 quinia, 485 Pulps, 646 and morphia, 485 Pulvis temperans, 471, 474 soda, 485 Pumpkin seed, 434 Purging cassia, 210 tartar emetic, 485 Purified animal charcoal, 203 Purple of Cassius, 163 tartaric acid, 485 Putty, 604 compound, 485 Pyroligneous acid, 88 sodium and opium, 548 nitre, 548 cataplasm, 88 tartar emetic, injection, 88

mouth wash, 88

548

# Q

Quassia, 480
extract, 480
infusion, 480
compound, 480
tincture, 480
einchona, 480
compound, 480
wine, 480
Queen's root, 554
decoction, 555
fluid extract, 555
Quiet in sick room, 62
Quince seed, 262
bandoline, 262
mixture, 262
mucilage, 262
Quinia, 481
amorphous, 482
impure, 482
tincture, 482
tincture, 481
acetate, 482
and chloride mercury, 484
pills, 484
arseniate, 482
arsenite, 482
di-arsenite, 482
citrate, 483

Quinia, citrate, and iron, 483
syrup, 483
ferrocyanide, 483
mixture, 483
pills, 483
hydriodate, 483
iodide, 483
with iron, 483
biniodide, 483
ioduretted hydriodate, 483
kinate, 484
pills, 484
lactate, 484
mixture, 484
pills, 484
syrup, 484
muriate, 484
mixture, 484
nitrate, 485
phosphate, 485
sulphate, 485
acid, 483
dentifrice, 488
enema, 488
gargle, 488
liniment, 487
mixture, 487
with coffee, 487

Quinia,	sulphate,	ointment,
	pills, 486	
		ubarb, 486
		ntian, 486
	compor	and, 486
	plaster, 488	
	powder, 48	
		orphia, 485
		da, 485
		rtar emetic,
		485
		rtaric acid, 485
		and, 486
	syrup, 487	inu, 400
		ffee, 487
	tincture, 48	
		and, 487
	wine, 487	
	aromat	ie, 487
sul	pho-tartrate,	488
	mixtur	e, 488
tan	nate, 488	
	impure, 488	3
	trate, 488	
val	erianate, 488	
	pills, 489	

### R

Racahout, 180
Raspail's sedative water, 194
Raspberry, 502
syrup, 502
vinegar, 502
water, 502
Rat poison, 437, 600
Ratafia of wormwood, 84
Passana of wormwood, 84
Reaumur's thermometer, 46
Red cedar, 363
cerate, 363
ink, 604
iodide of mercury, 338
lead, 450
oxide of iron, 294
mercury, 342
рорру, 496
infusion, 496
compound, 496
syrup, 496
precipitate, 342
roses, 498
saunders, 510
sulphuret of mercury, 345
Refrigerants, 79
Regent's ophthalmic ointment,
343
Reinsch's test, 688
Resin, 489
cerate, 489 .
compound, 489
copaiba, 250
hemp, 196
jalap, 360

```
Resin paper, 490
plaster, 489
          St. Andrew's, 489
           vigo with mercury, 490
     podophyllum, 451
pills, compound, 451
     powder, hæmostatic, 489
     scammony, 522
Rhatany, 364
clyster, 365
     collutory, 365
     dentifrice, 364
electuary, 365
extract, 364
fluid, 365
     infusion, 365
     injection, 365
     mixture, 365
     ointment, compound, 366
     pills, 365
     powder, compound, 364
syrup, 365
     tincture, 366
Rhubarb, 490
     confection, 493
      electuary, 492
extract, 493
           compound, 493
           fluid, 493
     with senna, 493 infusion, 492
           alkaline, 492
           compound, 492
      lozenges, 492
```

```
Rhubarb mixture, 495
    pills, 491
         compound, 491
         and aloes, 111
              caraway, 491
chamomile, 491
              Griffith's, 492
              ipecacuanha, 491
              iron, 492
              oxgall, 492
              soda, 492
    powder and chalk, 490
              magnesia. 490
              sulphate of potas-
                sium, 491
         compound, 491
         saccharated, 506
     roasted, 491
     suppository, 492
syrup, 493
         aromatic, 493
         and senna, 494
     tincture, 494
         alkaline, 495
          sweet, 495
          and aloes, 494
anise, 494
              gentian, 494
              orange-peel, 494
senna, 494
          Warner's cordial, 494
     wine, 495
          and gentian, 495
          compound, 495
```

Rice, 430 blancmange, 611 custard, 610 gruel, 430 jelly, 430 mucilage, 430 water, 430 Ricord's pills, 340 Rob of mulberries, 397 Rochelle salt, 464 Rose, dog, 497 confection, 497 hundred-leaved, 497 collutory, 498 essence, 498 lozenges, 497 oil, 498 ointment, 495 Rose, hundred-leaved, water, | Rosemary, marsh, 554 ointment, 497 red, 498 confection, 498 electuary, 498 honey, 498 infusion, acid, 498 syrup, 499 tincture, 499 vinegar, 499 compound, 499 wine, 499 Rosemary, 499 aromatic bath, 499 fomentation, 499 vinegar, 499 Hungary water, 500

oil, 500 ointment, 499 spirit, 500 tineture, 500 Rosin, 489 Round-leaved dogwood, 251 Rue, 502 confection, 502 extract, 502 mixture, 503 and squill, 502 oil, 502 syrup, 502 tincture, 502 Rules for the administration of medicine, 69 Rust's astringent, 115

### S

Saccharate of lead, 450 Saccharated powders, 506 Saccharine alum, 116 carbonate of iron, 281 Saccharometer, 34, 38 Safflower, 207 infusion, 207 Saffron, 254 collyrium, 254 elixir, 254 infusion, 254 ointment, 254 pills, 254 powder, saccharated, 506 syrup, 254 tincture, 254 compound, 254 Sagapenum, 506 prepared, 507 pills, compound, 507 Sage, 508 gargle, 509 infusion, 508 compound, 508 vinegar, 509 distilled, 509 water, 508 aromatic, 508 concentrated, 508 Sago, 507 milk, 507 mucilage, 507 posset, 507 Sal-ammoniae, 127 bolus, 127 cataplasm, 128 collutorium, 128 collyrium, 128 draught, 128 emulsion, 128 fomentations, 127 liniment, 128 lotions, 127 mixture, 128 powder, 127 wash, 128 Sal prunelle, 471 Salep, mucilage, 607 powder, compound, 607

49

Salicin, 507 pills, 507 compound, 507 powder, compound, 507 Salt, common, 546 of sorrel, 472 Saltpetre, 471 Sandalwood, 511 oil, 511 Zoll's pink paste, 511 Santonate of sodium, 512 syrup, 512 Santonica, 511 Santonin, 512 lozenges, 512 powder, 512 Saponin, 514 Sarsaparilla, 516 beer, 520 decoction, 516 compound, 516 Feltz's, 517 Jauperand's, 517 Vinache's, 517 Zittman's, 517 essence, 518 compound, 518 extract, 518 fluid, 518 compound, 518 infusion, 516 alkaline, 516 Lisbon diet drink, 517 powder, with Peruvian bark, 516 syrup, 518 compound, 519 for mineral water, 519 Gesnouin's, 520 Laffecteur's, 519 Indian, 322 decoction, 323 infusion, 323 mixture, 323 syrup, 322 Sassafras, 520 bark, 520 infusion, 520

compound, 520

Sassafras bark oil, 520 tincture, 520 compound, 520 pith, 520 infusion, 520 Saviard's lotion, 452 Savine, 504 cerate, 505 extract, 504 fluid, 505 infusion, 504 oil, 504 emulsion, 504 ointment, 505 pills, 504 powder, with cantharides, ginger, 504 pinkroot, 504 verdigris, 504 saccharated, 506 tincture, 505 compound, 505 Scammony, 521 chocolate, 522 confection, 521 elixir, 522 emulsion, 522 compound, 522 mixture, 522 oil, 522 pastilles, 522 de santé, 522 pills, 521 compound, 521 with ox-gall, 521 powder, with cream tartar, 521 soot, 521 compound, 521 resin, 522 soap, 522 Scarifications, 686 Schneeberger, 582 Scudamore's mixture, 240 Scullcap, 528 Scurvy grass, 236 conserve, 236 electuary, 236

Scurvy grass gargle, 237	Show bottles, colors for, 601	Soap, castile, 512
spirit, 237	Shower-bath, 669	cataplasm, 515
compound, 237	Sialagogues, 79	cerate, 513
Sea holly, 274	Sick room, management of, 59	plaster, 513
Sealing wax, 604	Sikes's hydrometer, 35	clyster, 515
black, 605	Silicate of potassium, 463	cod-liver oil, 516
red, 604	Silk weed, 153	ioduretted, 516
Sedatives, 79	Silver, 146	common, 512
Seidlitz powders, 464	solder for, 605	croton oil, 416 ·
water, 383	chloride, 146	electuary, 515
Semen contra, 511	and ammonium, 146	essence, 515
electuary, 511	pills, 146	camphorated, 515
extract, oleo-resinous.	powder, 146	grease balls, 514
511	cyanide, 146	hard, 512
enema, 511	ointment, 146	iodide of potassium, 468
infusion, 511	iodide, 146	itch ointment, 516
mixture, 511	ointment, 146	jalap, 360
powder, 511	nitrate, 146	liniment, 514
	collyrium, 147	ammoniacal, 514
of santonin, 512		
Syrup, 511	fused, 147	pills and ox-gall, 515
Seneka, 529	hair dye, 147	compound, 515
decoction, 529	indelible ink, 147	nitrated, 514
emulsion, 530	without mor-	plaster, 515
extract, 530	dant, 147	powder, cosmetic, 513
fluid, 529	mixture, 147	saponin, 514
infusion, 529	ointment, 147	scammony, 522
compound, 529	compound, 148	soft, 512
jelly, 530	pills, 147	solution, ethereal, 515
mixture, 530	solution, Mackensie's,	Spanish, 512
pills, 529	147	Starkey's, 415
polygalic acid, 530	oxide, 148	sulphur, 516
syrup, 531	ointment, 148	sulphuret of potassium,
powder, compound, 529	pills, 148	477
syrup, 529	Simaruba, 536	suppository, 515
tincture, 529	infusion, 536	tincture, 514
Senna, 531	compound, 537	alkaline, 514
American, 210	Sinapisms, 674	camphorated, 513
infusion, 210	Sinapism of ammonia, 122	turpentine, 513
black draught, 533	Skunk cabbage, 268	with sulphur, 516
confection, 531	infusion, 268	Soda, caustic, 538, 693
compound, 532	tincture, 268	cakes, 611
electuary with cream of	Slippery elm, 576	chlorinated, 539
	cataplasm, 576	cataplasm, 539
tartar, 532		2
figs, 532	mucilage, 576 Snakeroot, black, 225	gargle, 539
rhubarb, 532		injection, 539 mouth wash, 539
sulphur, 532	decoction, 226	
emulsion, 533	extract, fluid, 226	solution, 539.
extract, alcoholic, 531	tincture, 226	diluted, 539
fluid, 534	Virginia, 535	mint, 542
infusion, 533	electuary, 535	powders, 541
compound, 533	extract, fluid, 535	solution, 538
with buckthorn, 533	infusion, 535	effervescing, 541
coffee, 533	compound, 535	tartarized, 464
	manufacture which allowing	
lemon juice, 534	mixture, with allspice,	clyster, 465
rhubarb, 534	536	mixture, 464
rhubarb, 534	536	mixture, 464 powder, with rhubarb, 464
rhubarb, 534 tamarinds, 533	536 acetated,	mixture, 464 powder, with rhubarb,
rhubarb, 534 tamarinds, 533 tincture, 533	536 acetated, 536 ether, 536	mixture, 464 powder, with rhubarb, 464
rhubarb, 534 tamarinds, 533 tincture, 533 injection, 535	536 acetated, 536	mixture, 464 powder, with rhubarb, 464 Seidlitz, 464
rhubarb, 534 tamarinds, 533 tincture, 533 injection, 535 mixture, 533 pills, 531	536 acetated, 536 ether, 536 pills, compound, 535	mixture, 464 powder, with rhubarb, 464 Seidlitz, 464 whey, 464
rhubarb, 534 tamarinds, 533 tineture, 533 injection, 535 mixture, 533	536 acetated, 536 ether, 536 pills, compound, 535 tincture, 535	mixture, 464 powder, with rhubarb, 464 Seidlitz, 464 whey, 464 Sodium, 538
rhubarb, 534 tamarinds, 533 tincture, 533 injection, 535 mixture, 533 pills, 531 powder, compound, 531 and guaiacum, 531	536 acetated, 536 ether, 536 pills, compound, 535 tincture, 535 with balsam Peru,	mixture, 464 powder, with rhubarb, 464 Seidlitz, 464 whey, 464 Sodium, 538 acetate, 539
rhubarb, 534 tamarinds, 533 tincture, 533 injection, 535 mixture, 533 pills, 531 powder, compound, 531 and guaiacum, 531 syrup, 534	536 acetated, 536 ether, 536 pills, compound, 535 tincture, 535 with balsam Peru, 536 wine, with vanilla, 536	mixture, 464 powder, with rhubarb, 464 Seidlitz, 464 whey, 464 Sodium, 538 acetate, 539 pills, compound, 539
rhubarb, 534 tamarinds, 533 tincture, 533 injection, 535 mixture, 533 pills, 531 powder, compound, 531 and guaiacum, 531 syrup, 534 and cider, 535	536 acetated, 536 ether, 536 pills, compound, 535 tincture, 535 with balsam Peru, 536 wine, with vanilla, 536 Sneezewort, 321	mixture, 464 powder, with rhubarb, 464 Seidlitz, 464 whey, 464 Sodium, 538 acetate, 539 pills, compound, 539 arseniate, 540
rhubarb, 534 tamarinds, 533 tincture, 533 injection, 535 mixture, 533 pills, 531 powder, compound, 531 and guaiacum, 531 syrup, 534	536 acetated, 536 ether, 536 pills, compound, 535 tincture, 535 with balsam Peru, 536 wine, with vanilla, 536 Sneezewort, 321 Soap, 512	mixture, 464 powder, with rhubarb, 464 Seidlitz, 464 whey, 464 Sodium, 538 acetate, 539 pills, compound, 539 arseniate, 540 solution, 540 Heinecke's, 540
rhubarb, 534 tamarinds, 533 tincture, 533 injection, 535 mixture, 533 pills, 531 powder, compound, 531 and guaiacum, 531 syrup, 534 and cider, 535 compound aromatic, 534	536 acetated, 536 ether, 536 pills, compound, 535 tincture, 535 with balsam Peru, 536 wine, with vanilla, 536 Sneezewort, 321 Soap, 512 almond, 513	mixture, 464 powder, with rhubarb, 464 Seidlitz, 464 whey, 464 Sodium, 538 acetate, 539 pills, compound, 539 arseniate, 540 solution, 540 Heinecke's, 540 bicarbonate, 540
rhubarb, 534 tamarinds, 533 tincture, 533 injection, 535 mixture, 533 pills, 531 powder, compound, 531 and guaiacum, 531 syrup, 534 and cider, 535 compound aromatic, 534 manna, 534	536 acetated, 536 ether, 536 pills, compound, 535 tincture, 535 with balsam Peru, 536 wine, with vanilla, 536 Sneezewort, 321 Soap, 512 almond, 513 aromatic, 513	mixture, 464 powder, with rhubarb, 464 Seidlitz, 464 whey, 464 Sodium, 538 acetate, 539 pills, compound, 539 arseniate, 540 solution, 540 Heinecke's, 540 bicarbonate, 540 emulsion, 540
rhubarb, 534 tamarinds, 533 tincture, 533 injection, 535 mixture, 533 pills, 531 powder, compound, 531 and guaiacum, 531 syrup, 534 and cider, 535 compound aromatic, 534 manna, 534 rhubarb, 535	536 acetated, 536 ether, 536 pills, compound, 535 tincture, 535 with balsam Peru, 536 wine, with vanilla, 536 Sneezewort, 321 Soap, 512 almond, 513 aromatic, 513 arsenical, 513	mixture, 464 powder, with rhubarb, 464 Seidlitz, 464 whey, 464 Sodium, 538 acetate, 539 pills, compound, 539 arseniate, 540 solution, 540 Heinecke's, 540 bicarbonate, 540 emulsion, 540 lotion, 541
rhubarb, 534 tamarinds, 533 tincture, 533 injection, 535 mixture, 533 pills, 531 powder, compound, 531 and guaiacum, 531 syrup, 534 and cider, 535 compound aromatic, 534 manna, 534 rhubarb, 535 tincture, compound, 532	536 acetated, 536 ether, 536 pills, compound, 535 tincture, 535 with balsam Peru, 536 wine, with vanilla, 536 Sneezewort, 321 Soap, 512 almond, 513 aromatic, 513 arsenical, 513 balsam, camphorated ace-	mixture, 464 powder, with rhubarb, 464 Seidlitz, 464 whey, 464 Sodium, 538 acetate, 539 pills, compound, 539 arseniate, 540 solution, 540 Heinecke's, 540 bicarbonate, 540 emulsion, 540 lotion, 541 lozenges, 541
rhubarb, 534 tamarinds, 533 tincture, 533 injection, 535 mixture, 533 pills, 531 powder, compound, 531 and guaiacum, 531 syrup, 534 and cider, 535 compound aromatic, 534 manna, 534 rhubarb, 535 tincture, compound, 532 with gentian, 532	536 acetated, 536 ether, 536 pills, compound, 535 tincture, 535 with balsam Peru, 536 wine, with vanilla, 536 Sneezewort, 321 Soap, 512 almond, 513 aromatic, 513 arsenical, 513 balsam, camphorated acetic, 515	mixture, 464 powder, with rhubarb, 464 Seidlitz, 464 whey, 464 Sodium, 538 acetate, 539 pills, compound, 539 arseniate, 540 solution, 540 Heinecke's, 540 bicarbonate, 540 emulsion, 540 lotion, 541 lozenges, 541 mineral waters, artifi-
rhubarb, 534 tamarinds, 533 tincture, 533 injection, 535 mixture, 533 pills, 531 powder, compound, 531 and guaiacum, 531 syrup, 534 and cider, 535 compound aromatic, 534 manna, 534 rhubarb, 535 tincture, compound, 532 with gentian, 532 jalap, 532	536 acetated, 536 ether, 536 pills, compound, 535 tincture, 535 with balsam Peru, 536 wine, with vanilla, 536 Sneezewort, 321 Soap, 512 almond, 513 aromatic, 513 arsenical, 513 balsam, camphorated acetic, 515 beef marrow, 513	mixture, 464 powder, with rhubarb, 464 Seidlitz, 464 whey, 464 Sodium, 538 acetate, 539 pills, compound, 539 arseniate, 540 solution, 540 Heinecke's, 540 bicarbonate, 540 emulsion, 540 lotion, 541 lozenges, 541 mineral waters, artificial, 541
rhubarb, 534 tamarinds, 533 tincture, 533 injection, 535 mixture, 533 pills, 531 powder, compound, 531 and guaiacum, 531 syrup, 534 and cider, 535 compound aromatic, 534 manna, 534 rhubarb, 535 tincture, compound, 532 with gentian, 532 jalap, 532 wine, compound, 532	536 acetated, 536 ether, 536 pills, compound, 535 tincture, 535 with balsam Peru, 536 wine, with vanilla, 536 Sneezewort, 321 Soap, 512 almond, 513 aromatic, 513 arsenical, 513 balsam, camphorated acetic, 515 beef marrow, 513 bolus, 514	mixture, 464 powder, with rhubarb, 464 Seidlitz, 464 whey, 464 Sodium, 538 acetate, 539 pills, compound, 539 arseniate, 540 solution, 540 Heinecke's, 540 bicarbonate, 540 emulsion, 540 lotion, 541 lozenges, 541 mineral waters, artificial, 541 mixture, 541
rhubarb, 534 tamarinds, 533 tincture, 533 injection, 535 mixture, 533 pills, 531 powder, compound, 531 and guaiacum, 531 syrup, 534 and cider, 535 compound aromatic, 534 manna, 534 rhubarb, 535 tincture, compound, 532 with gentian, 532 jalap, 532	536 acetated, 536 ether, 536 pills, compound, 535 tincture, 535 with balsam Peru, 536 wine, with vanilla, 536 Sneezewort, 321 Soap, 512 almond, 513 aromatic, 513 arsenical, 513 balsam, camphorated acetic, 515 beef marrow, 513	mixture, 464 powder, with rhubarb, 464 Seidlitz, 464 whey, 464 Sodium, 538 acetate, 539 pills, compound, 539 arseniate, 540 solution, 540 Heinecke's, 540 bicarbonate, 540 emulsion, 540 lotion, 541 lozenges, 541 mineral waters, artificial, 541

Sodium, bicarbonate, powder, | Sodium, sulphate, powder, with | Solution, bitartrate of potaseffervescent, 541 and magnesia, 541 bisulphate, 542 and magnesia, 542 solution, effervescent, 542 borate, 542 bromide, 543 ointment, 544 carbolate, 544 solution, 544 carbonate, 544 dried, 544 injection, 545 lotion, 545 mixture with chamomile, 544 gentian, 544 ipecacuanha, 544 quassia, 544 ointment, 545 pills, 545 and ipecacuanha, 545 rhubarb, 544 powder, with mercury, 545 rhubarb, 545 solution, 544 diuretic, 544 effervescing, 544 chlorate, 545 collutory, 546 gargle, 546 lotion, 545 chloride, 546 bath, with gelatin, 546 clyster, 546 and arnica, 546 fomentation, 546 mixture with lemon juice, 546 ointment, 546 compound, 546 powder, compound, 546 and cochineal, 546 chloroplatinate, 444 injection, 444 citrate, solution, 547 citro-tartrate, effervescent, 540 hypophosphite, 185 hyposulphite, 547 bath, 547 collutory, 547 fomentation, 547 syrup, 547 iodide, 547 nitrate, 547 fomentation, 547 mixture, 547 phosphate, 548 mixture, 548 powder, compound, 548 sulphate, 548 clyster, 549 electuary, 548 emulsion, 549 lemonade, 549 lotion, 549 pills, compound, 548

nitre, 548 opium, 548 tartar emetic, 548 solution, compound, 548 suppository, 549 sulphide, 549 sulphuretted water, 549 sulphite, lotion, 549 solution, 549 sulphocarbolate, 549 sulphuret, 549 bath, 550 liniment, 550 lotion, 550 mixture with sal ammoniac, 550 ointment, 550 tartrate, 550 effervescing solution, 550 valerianate, 550 Solders, 605 Solder for brass, copper, and iron, 605 gold, 605 lead, 605 pewter, 605 silver, 605 tin, 605 zine, 605 Soluble glass, 473 tartar, 457, 477 Solution, arsenical, 88 Clemens's, 595 digestive, 431 Donovan's, 151 Fowler's, 454 Goadby's, 599 Heinecke's, 540 Labarraque's, 539 Mackensie's, 147 Magendie's, 402 Pearson's, 540 Reboulet's, 599 of acetate ammonium, 124 barium, 167 mercury, 331 morphia, 399 alcoholic, 399 strychnia, 558 alum, 117 odontalgic, 117 ammonia, 123 arseniate of ammonium, 125 sodium, 540 arsenic, 88 and bromine, 595 arsenite of potassium, 454 ammoniated copper, 259 chloride of copper and mercury, 259 ammonio-tartrate of iron, atropia, 157 baryta, 169 belladonna extract, 171 bicarbonate of potassium, effervescing, 455 bimeconate of morphia, 399 bitartrate of potassium,

456

sium, compound, 456 borotartrate of potassium, 457 bromide of mercury, ethereal, 332 potassium, 458 bromine, 178 alcoholic, 178 brucia, 178 carbonate of potassium, 459 sodium, 544 diuretic, 544 effervescing, 544 caustic potassa, 452 chlorate of potassium, 461 chloride of arsenic, 150 barium, 168 calcium, 184 gold and sodium, 160 iron, 283 chlorinated soda, 539 diluted, 539 potassa, 453 citrate of ammonium, 128 iron, 285 magnesium, 382 potassium, 462 conia, 246 corrosive sublimate, 332 alcoholie, 332 creasote, alcoholic, 252 croton oil, saponaceous, cyanide of gold, 162 of mercury, 338 potassium, 463 delphinia, 263 ferroeyanide of zinc, 588 gamboge, alkaline, 306 hydrargyro-iodide of potassium, 470 iodide of iron, 290 potassium, 466 caustic, 469 compound, 469 zine, 588 iodine, 352 lac, 367 lime, saccharated, 186 magnesia, 380 malate of iron, 292 morphia and ipecacuanha, muriate of morphia, 400 myrrh, alkaline, 406 nitrate of silver, 147 nitro-saccharate of lead, 450 pancreatin, 431 perchloride of iron, 284 persesquinitrate of iron, persulphate of iron, 295 phosphate of ammonium, potassa, 453 lithontriptic, 453 protochloride of iron, 284 protonitrate of mercury, silicate of potassium, 473 soap, ethereal, 515 soda, 538

Solution, subacetate of lead,	Spirit of assafetida, 156	Squill, powder with sulphur, 523
445	balm, compound, 392	compound, 523
subsulphate of iron, 295	caraway, 207	saccharated, 506
sulphate of bebeerina, 169	castor, compound, 212	syrup, 527
eadmium, 181	chlorated, 105	aromatic, 527
iron, 298	chloroform, 224	compound, 524
morphia, 402	cinnamon, 235	mixture, 526
sodium, compound,	compound, 235	tincture, 525
548	cloves, 208	alkaline, 525
veratria, 582	ether, 106	and elaterium, 525
zine, 591	horseradish, compound, 148	benzoin, com-
sulphuret of potassium, 477	juniper, compound, 362	pound, 525
tartar emetic, 143	lavender, 371	ethereal, 525
and squill, 143	compound, 372	vinegar, 527
tartrate of iron and potas-	lemon, 372	mixture, 526
sium, 287	odoriferous, 374	and ammonia, 526
potassium and ammo-	Mindererus, 124	wine, 525
nium, 464	muriatic ether, 105	compound, 525
terchloride of antimony,	nutmeg, 405	bitter, 525
139	compound, 405	Stahl's aperient pills, 110
tersulphate of iron, 295	orange, 597	Star grass, 107
Soot, 301 eataplasm, 302	peel, 158 peppermint, 393	tincture, 107 Starch, 135
collutory, 302	rosemary, 500	clyster, 135
decoction, 301	spearmint, 394	
injection, 302	succinated ammonia, 130	glycerate, 313 iodide, 135
mixture, 301	sulphuric ether, 106	jelly, 135
mouth wash, 302	sweet, of nitre, 552	lozenges, 135
oil, 302	mixture, 552	mixture, with suet, 135
ointment, 302	turpentine, 413	mucilage, 135
compound, 302	vanilla, 580	powder, compound, 135
pills, 301	vinegar, aromatic, 87	Starkey's soap, 415
tincture, 301	wormwood, compound, 84	Stavesacre, 554
Southernwood, 151	Spitta's lozenges, 255	decoction, 554
clyster, 151	Splints, felt, 605	ointment, 554
infusion, 151	Sponge, 552	compound, 554
Spanish flies. (See CANTHA-	burnt, 553	vinegar, 554
RIDES.)	bolus, 553	Sternutatory, of euphorbium,
Spearmint, 394	electuary, 553	276
arquebusade water, 394	powder, 553	of hellebore, 582
essence, 394 infusion, 394	Sponging, 672	Stevens's saline powder, 461 Stimulants, 80
compound, 394	Spongio-piline, 674	Storax, 559
compound, our	Spruce beer, 611	ointment, 560
spirit, 394		0.1111111111111111111111111111111111111
spirit, 394 svrup, 394		turpentine, 560
syrup, 394	Spurge, 276	turpentine, 560 pills, compound, 559
		turpentine, 560 pills, compound, 559 purified, 559
syrup, 394 water, 394	Spurge, 276 Squill, 522	pills, compound, 559
syrup, 394 water, 394 Species, aromatic, 393	Spurge, 276 Squill, 522 electuary, 527	pills, compound, 559 purified, 559
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526	pills, compound, 559 purified, 559 syrup, 560
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31* beads, 35 table, 44	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31* beads, 35 table, 44 Spermaceti, 217	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31* beads, 35 table, 44 Spermaceti, 217 cerate, 217	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31* beads, 35 table, 44 Spermaceti, 217 cerate, 217 cold cream, 217	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527 oxymel, 527	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557 ointment, 556
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31* beads, 35 table, 44 Spermaceti, 217 cerate, 217 cold cream, 217 liniment, 218	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527 oxymel, 527 mixture, with ammo-	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557 ointment, 556 compound, 556
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31* beads, 35 table, 44 Spermaceti, 217 cerate, 217 cold cream, 217 liniment, 218 lip salve, 218	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527 oxymel, 527 mixture, with ammoniac, 526	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557 ointment, 556 compound, 556 pills, seed, 555
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31* beads, 35 table, 44 Spermaceti, 217 cerate, 217 cold cream, 217 liniment, 218 lip salve, 218 mixture, 217	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527 oxymel, 527 mixture, with ammoniac, 526 ipecacuanha,	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557 ointment, 556 compound, 556 pills, seed, 555 compound, 555
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31* beads, 35 table, 44 Spermaceti, 217 cerate, 217 cold cream, 217 liniment, 218 lip salve, 218 mixture, 217 ointment, 217	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527 oxymel, 527 mixture, with ammoniac, 526 ipecacuanha, 526	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557 ointment, 556 compound, 556 pills, seed, 555 compound, 555 powder, saccharated, 506
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31* beads, 35 table, 44 Spermaceti, 217 cerate, 217 cold cream, 217 liniment, 218 lip salve, 218 mixture, 217 ointment, 217 and rosewater, 217	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527 oxymel, 527 mixture, with ammoniac, 526 ipecacuanha, 526 marsh mal-	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557 ointment, 556 compound, 556 pills, seed, 555 compound, 555 powder, saccharated, 506 syrup, 556
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31* beads, 35 table, 44 Spermaceti, 217 cerate, 217 cold cream, 217 liniment, 218 lip salve, 218 mixture, 217 ointment, 217 and rosewater, 217 sultana, 218	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527 oxymel, 527 mixture, with ammoniac, 526 ipecacuanha, 526 imarsh mallow, 526	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557 ointment, 556 compound, 556 pills, seed, 555 compound, 555 powder, saccharated, 506 syrup, 556 tincture of leaves, 556
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31 beads, 35 table, 44 Spermaceti, 217 cerate, 217 cold cream, 217 liniment, 218 lip salve, 218 mixture, 217 ointment, 217 and rosewater, 217 sultana, 218 powder, compound, 217	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527 oxymel, 527 mixture, with ammoniac, 526 ipecacuanha, 526 marsh mallow, 526 valerian, 526	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557 ointment, 556 compound, 556 pills, seed, 555 compound, 555 powder, saccharated, 506 syrup, 556 tincture of leaves, 556 seed, 556
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31* beads, 35 table, 44 Spermaceti, 217 cerate, 217 cold cream, 217 liniment, 218 lip salve, 218 mixture, 217 ointment, 217 and rosewater, 217 sultana, 218	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527 oxymel, 527 mixture, with ammoniac, 526 ipecacuanha, 526 imarsh mallow, 526	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557 ointment, 556 compound, 556 pills, seed, 555 compound, 555 powder, saccharated, 506 syrup, 556 tincture of leaves, 556
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31 beads, 35 table, 44 Spermaceti, 217 cerate, 217 cold cream, 217 liniment, 218 lip salve, 218 mixture, 217 ointment, 217 and rosewater, 217 sultana, 218 powder, compound, 217 saccharated, 217	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527 oxymel, 527 mixture, with ammoniac, 526 ipecacuanha, 526 marsh mallow, 526 valerian, 526 pills and ammoniac, 523	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557 ointment, 556 compound, 556 pills, seed, 555 compound, 555 powder, saccharated, 506 syrup, 556 tincture of leaves, 556 seed, 556 ethereal, 556
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31 beads, 35 table, 44 Spermaceti, 217 cerate, 217 cold cream, 217 liniment, 218 lip salve, 218 mixture, 217 ointment, 217 and rosewater, 217 sultana, 218 powder, compound, 217 saccharated, 217 Spice plaster, 594	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527 oxymel, 527 mixture, with ammoniac, 526 ipecacuanha, 526 marsh mallow, 526 valerian, 526 pills and ammoniac, 523 calomel, 523	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557 ointment, 556 compound, 556 pills, seed, 555 compound, 555 powder, saccharated, 506 syrup, 556 tincture of leaves, 556 seed, 556 ethereal, 556 Strychnia, 557 acetate, 558
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31' beads, 35 table, 44 Spermaceti, 217 cerate, 217 cold cream, 217 liniment, 218 lip salve, 218 mixture, 217 ointment, 217 and rosewater, 217 sultana, 218 powder, compound, 217 saccharated, 217 Spice plaster, 594 Spirits, 666 Spirit of acetic ether, 105	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527 oxymel, 527 mixture, with ammoniac, 526 ipecacuanha, 526 ipecacuanha, 526 valerian, 526 valerian, 526 pills and ammoniac, 523 calomel, 523 calomel, 523 digitalis, 524 henbane, 524	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557 ointment, 556 compound, 556 pills, seed, 555 compound, 555 powder, saccharated, 506 syrup, 556 tincture of leaves, 556 seed, 556 ethereal, 556 wine, 556 Strychnia, 557 acetate, 558 solution, 558
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31 beads, 35 table, 44 Spermaceti, 217 cerate, 217 cold cream, 217 liniment, 218 lip salve, 218 mixture, 217 ointment, 217 and rosewater, 217 sultana, 218 powder, compound, 217 saccharated, 217 Spice plaster, 594 Spindle tree, 275 Spirits, 666 Spirit of acetic ether, 105 allspice, 439	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527 oxymel, 527 mixture, with ammoniac, 526 ipecacuanha, 526 marsh mallow, 526 valerian, 526 pills and ammoniac, 523 calomel, 523 calomel, 523 digitalis, 524 henbane, 524 ipecacuanha, 523	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557 ointment, 556 compound, 556 pills, seed, 555 compound, 555 powder, saccharated, 506 syrup, 556 tincture of leaves, 556 seed, 556 ethereal, 556 wine, 556 Strychnia, 557 acetate, 558 solution, 558 tincture, 558
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31' beads, 35 table, 44 Spermaceti, 217 cerate, 217 cold cream, 217 liniment, 218 lip salve, 218 mixture, 217 ointment, 217 and rosewater, 217 sultana, 218 powder, compound, 217 saccharated, 217 Spice plaster, 594 Spindle tree, 275 Spirits, 666 Spirit of acetic ether, 105 allspice, 439 ammonia, 123	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527 oxymel, 527 mixture, with ammoniac, 526 ipecacuanha, 526 marsh mallow, 526 valerian, 526 pills and ammoniac, 523 calomel, 523 calomel, 523 digitalis, 524 henbane, 524 ipecacuanha, 523 compound, 524	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557 ointment, 556 compound, 556 pills, seed, 555 compound, 555 powder, saccharated, 506 syrup, 556 tincture of leaves, 556 seed, 556 ethereal, 556 wine, 556 Strychnia, 557 acetate, 558 solution, 558 tincture, 558 collyrium, 558
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31' beads, 35 table, 44 Spermaceti, 217 cerate, 217 cold cream, 217 liniment, 218 lip salve, 218 mixture, 217 ointment, 217 and rosewater, 217 sultana, 218 powder, compound, 217 saccharated, 217 Spice plaster, 594 Spindle tree, 275 Spirits, 666 Spirit of acetic ether, 105 allspice, 439 ammonia, 123 aromatic, 123	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527 oxymel, 527 mixture, with ammoniac, 526 ipecacuanha, 526 marsh mallow, 526 valerian, 526 pills and ammoniac, 523 calomel, 523 calomel, 523 digitalis, 524 henbane, 524 ipecacuanha, 523 compound, 524 powder with calomel, 523	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557 ointment, 556 compound, 556 pills, seed, 555 compound, 555 powder, saccharated, 506 syrup, 556 tincture of leaves, 556 seed, 556 ethereal, 556 wine, 556 Strychnia, 557 acetate, 558 solution, 558 tincture, 558 collyrium, 558 elixir of iron and, 558
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31' beads, 35 table, 44 Spermaceti, 217 cerate, 217 cold cream, 217 liniment, 218 lip salve, 218 mixture, 217 ointment, 217 and rosewater, 217 sultana, 218 powder, compound, 217 saccharated, 217 Spice plaster, 594 Spindle tree, 275 Spirits, 666 Spirit of acetic ether, 105 allspice, 439 ammonia, 123 aromatic, 123 and succinic acid, 130	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527 oxymel, 527 mixture, with ammoniac, 526 ipecacuanha, 526 marsh mallow, 526 valerian, 526 pills and ammoniac, 523 calomel, 523 calomel, 523 digitalis, 524 henbane, 524 ipecacuanha, 523 compound, 524 powder with calomel, 523 cream of tartar,	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557 ointment, 556 compound, 556 pills, seed, 555 compound, 555 powder, saccharated, 506 syrup, 556 tincture of leaves, 556 seed, 556 ethereal, 556 wine, 556 Strychnia, 557 acetate, 558 solution, 558 tincture, 558 collyrium, 558 elixir of iron and, 558 pepsin, bismuth,
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31' beads, 35 table, 44 Spermaceti, 217 cerate, 217 cold cream, 217 liniment, 218 lip salve, 218 mixture, 217 ointment, 217 and rosewater, 217 sultana, 218 powder, compound, 217 saccharated, 217 Spice plaster, 594 Spindle tree, 275 Spirits, 666 Spirit of acetic ether, 105 allspice, 439 ammonia, 123 aromatic, 123 and succinic acid, 130 fetid, 123	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527 oxymel, 527 mixture, with ammoniac, 526 ipecacuanha, 526 marsh mallow, 526 valerian, 526 pills and ammoniac, 523 calomel, 523 calomel, 523 digitalis, 524 henbane, 524 ipecacuanha, 523 compound, 524 powder with calomel, 523 cream of tartar, 523	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557 ointment, 556 compound, 556 pills, seed, 555 compound, 555 powder, saccharated, 506 syrup, 556 tincture of leaves, 556 seed, 556 ethereal, 556 wine, 556 Strychnia, 557 acetate, 558 solution, 558 tincture, 558 collyrium, 558 elixir of iron and, 558 pepsin, bismuth, 558
syrup, 394 water, 394 Species, aromatic, 393 pectoral, 114 with fruit, 114 Specific gravity, 31' beads, 35 table, 44 Spermaceti, 217 cerate, 217 cold cream, 217 liniment, 218 lip salve, 218 mixture, 217 ointment, 217 and rosewater, 217 sultana, 218 powder, compound, 217 saccharated, 217 Spice plaster, 594 Spindle tree, 275 Spirits, 666 Spirit of acetic ether, 105 allspice, 439 ammonia, 123 aromatic, 123 and succinic acid, 130	Spurge, 276 Squill, 522 electuary, 527 emulsion, 526 extract, 527 acetic, 527 fluid, 527 and rhubarb, 526 honey, 527 ointment, 527 oxymel, 527 mixture, with ammoniac, 526 ipecacuanha, 526 marsh mallow, 526 valerian, 526 pills and ammoniac, 523 calomel, 523 calomel, 523 digitalis, 524 henbane, 524 ipecacuanha, 523 compound, 524 powder with calomel, 523 cream of tartar,	pills, compound, 559 purified, 559 syrup, 560 Stramonium, 555 extract of leaves, 555 seeds, 555 lotion, 556 mixture, 556 oleo-infusion, 557 ointment, 556 compound, 556 pills, seed, 555 compound, 555 powder, saccharated, 506 syrup, 556 tincture of leaves, 556 seed, 556 ethereal, 556 wine, 556 Strychnia, 557 acetate, 558 solution, 558 tincture, 558 collyrium, 558 elixir of iron and, 558 pepsin, bismuth,

mixture, 563

Strychnia liniment, 558	Sulphur
mixture, 557	oint
muriate, 559	
solution, 559	
nitrate, 559	
ointment, 559	now
ointment, 558 pills, 557	pow
stimulant, 557	
phosphate, solution, 559	
powder, compound, 557	
sulphate, 559	
hypodermic injection,	
559	
syrup, 559 tincture, 557	pred
Stuping, 673	wasi
Styptic of sulphate of copper,	wate
261	Sulphur
Subacetate of copper, 258	anti
lead, 445	arse
Subcarbonate of bismuth, 175	bari
iron, 281	calc
Subnitrate of bismuth, 175 Succinate of ammonium, 129	earb
Succory, 225	mag
extract, 225	mer
infusion, 225	
syrup, compound, 225	pota
Sugar, 505	sodi
barley, 324	tin,
burnt, 505	Sulphur
milk, 506 syrup, 505	wate
vanilla, 580	hyd
vermifuge, 505	13
Sulphate of aluminium, 115	syrt
ammonium, 130	Sulphur
antimony, 142	100
atropia, 156	
brucia, 178 eadmium, 181	HI CANE
einehonia, 233	100
copper, 260	
indigo, 350	
iron, 297	ethe
magnesium, 383	
manganese, 387 morphia, 401	
potassium, 473	1. 1. 1. 1. 1.
and ammonium, 463	
magnesium, 463	
quinia, 485	
sodium, 548	
strychnia, 559	
veratria, 582	Sulphur
zinc, 590 Sulpho-cyanide of potassium,	Sumach,
474	extr
tartrate of quinia, 488	Sumbul,
Sulphur, 561	tine
balsam, 563	Supposit
ethereal, 563	Supposit
terebinthinated, 563	aloe
cerate, 564	anth
electuary, 562, 563 compound, 562	assa bell:
iodide, 565	carb
ointment, 565	char
powder, 565	chlo
linetus, 563	hem
liniment, with soap, 564	iodo
linseed oil, 563 liver, 474	mer
ARTURI ZIZ	mor

```
ment, 563
    compound, 564
    with camphor, 564
         soap, 564
         zine, 564
    der, compound, 562
    with antimony, 562
          camphor, 562
cream of tartar,
            562
          liquorice, 562
          magnesia, 562
          orris root 562
    eipitated, 561
    imed, 561
    hed, 561
er, 563
    et of ammonium, 130
    mony, 140
    nic, 151
um, 169
    ium, 187
    on, 564
    , 289
    nesium, 384
    cury, black, 344
red, 345
    ssium, 474
    um, 549
    554
    etted anthracokali, 205
    rogen, 94
    er, artificial, 95
    rosulphate of ammonia,
    ip, 131
    e acid, 99, 691
    aromatic, 99
    and alcohol, 99
         nitric ether, 99
    diluted, 99
    lemonade, 99
    liniment, 100
    ointment, 100
    r, 105
    ethereal oil, 106
    Hoffmann's anodyne,
    lotion, 106
    mixture, with cam-
           phor, 106
         turpentine, 106
    spirit, 106
    syrup, 106
    ous acid, 100
    mixture, 100
     496
    act, fluid, 496
     565
    ture, 565, 598
    ories, 73, 679
    ory, acetate of lead, 446
    s, 111, 114
    nelmintic, 111, 114
fetida, 156
    adonna, 172
    olic acid, 91
    coal, 205
    ride of zinc, 587
    lock, 246
    form, 354
    curial, 330
morphia, 401, 402
```

```
Suppository, opium, 424
and lead, 424
    rhubarb, 492
    soap, 515
    sulphate of sodium, 549
    tannin, 101
Swamp dogwood, 251
    silkweed, 153
Swediaur's tineture, 428
Sweet almonds, 131
    clover, 392
        plaster, 392
     fern, 244
    gum, 376
         bark, syrup, 376
     spirit of nitre, 552
         salt, 105
     violet, 584
Sydenham's laudanum, 426
Sylvius, salt of, 461
Syrups, 646
Syrup, 505
     acetate of morphia, 399
     antimonial wine, 145
     asparagus shoots, 153
     assafetida, 158
     atropia, 157
     balsam of Peru, 165
         tolu, 166
     belladonna, 171
         Gillet's, 171
     biniodide of potassium, 469
     bittersweet, 298
     blackberry, 501
     bloodroot, 510
     brooklime, 170
     bromide of iron, 280
     buckthorn, 490
     capillaire, 104
     cayenne pepper, 202
    chamomile, 139
chloride of gold and so-
                    dium, 160
                 compound, 161
         iron, 284
     cinchonia, 233
     cinnamon, 235
     citrate of caffeina, 238
         iron, 285
              and magnesium,
                286
         quinia, 483
    citric acid, 92
clove pink, 264
     cod-liver oil, 237
     codeia, 237
     coffee, 237
     colchicum, 240
     coltsfoot, 575
     cranesbill, aromatic, 310
     cubebs, alcoholic ethereal
       extract, 257
     cyanide of potassium, 463
     emetina, 271
     ergot, 272
     eucalyptus, 275
     foxglove, 267
    gallic acid, 93
    galls, 305
    garlie, 107
    gentian, 309
         extract, 309
     German chamomile, 390
    ginger, 593
```

Syrup, ginger, oleoresin, 594 gold, 160 gum, 85 compound, 85 hive, 524 horehound, 389 horseradish, 148 hydrocyanic acid, 94 hydrosulphate of ammonia, 131 hyposulphite of sodium, 547 hyposulphited sulphuret of potassium, 474 Indian sarsaparilla, 322 iodate of potassium, 465 iodide and chloride of iron, 291 of iron, 290 manganese, 386 and iron, 386 potassium, 466 and iron, 466 zine, 589 iodo-tannin, 353 ipecacuanha, 357 compound, 357 Jackson's pectoral, 85. 596 kino, 364 lactate of iron, 292 quinia, 484 lactucarium, 368, 369 lemon, 374 peel, 373 vinous, 373 lettuce, 368 liquorice root, 314, 598 lobelia, 377 lupulin, 378 maidenhair, 104 manna, 387

Syrup, marsh mallow, 114 matico, 390 milk, 367 monesia, 397 compound, 397 mulberries, 397 muriate of morphia, 400 compound, 400 muriatic acid, 96 naphthalin, 407 opium, 423 succinated, 423 orange flowers, 159 peel, 158 orgeat, 132 oxide of iron, 294 paullinia, 434 pectoral, 432 Peruvian bark, 232 vinous, 232 with iron, 232 phosphate of iron, 296 calcium, 187 phosphates, 296 pipsissewa, 221 polygalie acid, 531 poppy heads, 432 substitute for, 432 proto-iodide of iron, 290 proto-nitrate of iron, 292 pyrophosphate of iron, 296 red roses, 499 рорру, 496 rhatany, 365 rhubarb, 493 and senna, 493 aromatic, 494 rue, 502 saffron, 254 sarsaparilla, 518 for mineral water, 519 compound, 519

Syrup, sarsaparilla, Gesnouin's, Laffecteur's, 519 seneka, 529 senna, 534 and cider, 535 manna, 534 rhubarb, 535 compound aromatic, 534 squill, 527 aromatic, 527 compound, 527 storax, 560 stramonium, 556 succory, compound, 225 sulphate of iron, 298 morphia, 402 quinia, 487 and coffee, 487 strychnia, 559 sulphuret of magnesium, 384 potassium, 475 compound, 475 sulphuretted, 131 sulphuric ether, 106 sweet gum bark, 376 tannin, 101 aromatic, 101 tar, 442 tartaric acid, 101 tartrate of iron, 287 terebinthinate, 572 thridace, 368 uva ursi, 577 valerian, 578 vinegar, 86 violets, 584 wild-cherry bark, 473 Willis's, 475 wormwood, 83

### T

Table of avoirdupois and troy | weights, 17, 18 distilled oils, 662 drops and minims, 29 foreign weights, 23 hydrometrical equivalents, incompatibles, 612 liquid measure, 26, 27 metrical and troy weights, pharmaceutical names, 625 poisons and antidotes, 703 posological, 617 of sp. grs. and Baumé's hydrometer, 38, 39 of preparations, 44 troy and metrical weights, 25 Taffeta cantharidalis, 201 Tamarinds, 567 electuary, 568 infusion, 568 pulp, 568 whey, 568

Tannate of bismuth, 176 iron, 298 lead, 450 quinia, 488 Tannic acid, 100 gargle, 101 glycerite, 100 inhalation, 101 injection, 101 mixture, 101 ointment, 101 pills, 100 and opium, 100 suppositories, 101 syrup, 101 aromatic, 101 troches, 100 Tansy, 568 extract, 568 infusion, 568 oil, 568 pills, 568 powder, compound, 568 tincture, compound, 568 Tapioca, 568

Tapioca jelly, 569 pudding, 569 Tar, 442 beer, 442 glycerite, 442 ointment, 443 compound, 443 pills, 442 syrup, 442 water, 442 wine, 442 Tartaric acid, 101, 691 effervescing powders, 102 lemonade, 101 lozenges, 101 syrup, 101 Tartar emetic, 142 bolus, 143 clyster, 144 emulsion, 143 liniment with ammonia, 144 lotion, 144 and camphor, 144

Tartar emetic lotion and corro-
sive sublimate, 144
ointment, 144
compound, 144
pills and camphor, 143
guaiacum, 143
opium, 143 plaster, 144
powder, 142
and ipecacuanha,
143
phosphate of
calcium,431
quinia, 143
compound, 142
solution, 143
and squill, 143
wine, 144
collyrium, 144 mixture, with am-
moniae, 145
bittersweet,
145
laudanum, 145
syrup, 145
Tartarized soda, 464
Tartrate of antimony and po-
tassium, 142
iron and potassium, 286
magnesium, 384 mercury and potassium,
346
morphia, 402
potassium, 477
and ammonium, 464
quinia, 488
sodium and potassium, 464
Tea, balm, 392
beef, 608
bran, 609
mutton, 608
veal, 608 worm, 504, 551
Température of sick room, 60
Temperatures in pharmaceuti-
cal operations, 39
Tepid and temperate baths, 668
Terebinthinated ether, 106
Theden's vulnerary, 99
Thermometrical scales, 46
Thieves' vinegar, 87
Thorn apple, 555
Thridace, 368 Thus, 441
Tin, 553, 699
solder for, 605
chloride, 553
lotion, 553
electuary, 553
ointment, 553
oxide, 553
powder, 553
sulphuret, 554
powder, compound, 554
Tinctures, 648 Tincture, acetate of iron, 279
alcoholic, 279
ethereal, 279
potassium, 454
strychnia, 558
zine, 586
aconite leaves, 103
root, 103

Fleming's, 595

```
Tincture, aloes, 113
        ethereal, 113
        and myrrh, 113
   allspice, 439
   amber, 561
alkaline, 561
        ethereal, 561
    American centaury, 504
        columbo, 301
        hellebore, 583
    ammonia, compound, 122
   angelica, 136
        compound, 136
    angustura, 137
    anise, 138
    anticrid, 319, 333 -
    arnica, 150
    aromatic, 235
    assafetida, 155
        alkaline, 155
        and castor, 156
soot, 156
        ethereal, 155
    atropia, 157
    balsam of Peru, 165
        tolu, 165
            compound, 166
                with foxglove,
    belladonna, 172
        Blackett's, 595
        ethereal, 172
    benzoin, 174
        compound, 174
    Bestucheffe's, 284
    black hellebore, 322
        snakeroot, 226
    bloodroot, 510
        compound, 510
    broom, 528
    brucia, 178
    buchu, 179
    Calabar bean, 438
    calamus, 182
        compound, 183
    camphor, compound, 427
        ethereal, 193
        with saffron, 193
    cantharides, 198
        and guaiacum, 198
        camphorated, 198
            ethereal, 199
        compound, 198
        ethereal, 198
    carbonate of potassium, 459
             compound, 460
    cardamom, 206
        compound, 206
    cascarilla, 209
        concentrated, 209
    eastor, 211
        ammoniated, 211
        compound, 212
        ethereal, 211
    catechu, 214
    Cayenne pepper, 203
            and cantharides,
               203
            concentrated, 203
    cevadilla, 503
    chinoidin, 482
    chiretta, 221
    chloride of gold, 160
```

iron, 284

```
Tincture, chloride of iron, ethe-
           real, 284
         zinc, ethereal, 587
    chloroform, compound, 224
    cinchenia, 233
    cinnamon, 234
         compound, 235
         ethereal, 235
    citrate of iron, 285
    cloves, 208
    cochineal, 236
         compound, 597
    colchicum flowers, 239
         seed, 239
             compound, 239
         ethereal, 239
    and digitalis, 241
colocynth, 243
    columbo, 191
         concentrated, 191
    contrayerva, 247
         compound, 247
    copaiba, 249
        alkaline, 249
         compound, 249
    coriander, 250
    croton oil, 416
    cubebs, 256
         ethereal, 256
    cyanide mercury,
                          com-
      pound, 338
    Dippel's oil, 409
    elaterin, 270
    ergot, 272
        ethereal, 272
    eucalyptus, 275
    euphorbium, 277
    foxglove, 266
         ethereal, 266
    galbanum, 303
        compound, 303
    galls, 305
    gamboge, alkaline, 307
         ammoniacal, 307
    gentian, 310
         acidulated, 310
         alkaline, 310
         ammoniacal, 310
         compound, 310
    ginger, 594
        strong, 593
    goldthread, 250
    guaiacum, 318
         ammoniated, 319
         Dewees's, 319
    hemlock, 245
        ethereal, 245
    hemp, 196
    henbane, 348
         ethereal, 348
    hiera picra, 196
    hops, 325
        alkaline, 325
    horse balm, 242
    horseradish, compound, 148
Huxham's, 230
    hydrargyro-iodide of po-
      tassium, 470
    ignatia, 349
        alkaline, 350
    iodide of iron, 290
    iodine, 351
         compound, 351
         decolorized, 351
```

Tincture, iodine, ethereal, 351	Tincture, quinia, impure, 482	Tobacco, cataplasm, 567
saturated, 351	red iodide mercury, 339 ethereal, 339	extract, 566 infusion, 567
ipecacuanha, 358		
jalap, 361	rhatany, 366 rhubarb, 494	lotion, 567 mixture, 567
compound, 361	and aloes, 494	nicotina, 567
Jamaica dogwood, 440	anise, 494	oil, 567
kino, 364	gentian, 494	ointment, 567
lactucarium, 369	orange-peel, 494	oleo-infusion, 567
larkspur seeds, 263 lavender, compound, 372	senna, 494	pills, 566
ethereal, 372	alkaline, 495	powder, compound, 566
lemon-peel, 373	sweet, 495	tincture, 566
lettuce, aromatic, 369	rosemary, 500	wine, 566
lobelia, 377	roses, 499	Tolu, balsam of, 165
ethereal, 377	rue, 502	emulsion, 166
lupulin, 378	saffron, 254	inhalation, 167
mace, 379	compound, 254	lozenges, 166
magnolia, 384	sassafras, 520	mixture, 167
malate of iron, 292	compound, 520	and belladonna, 166
mastich, ethereal, 389	savine, 505	almond emulsion,
matico, 390	compound, 505	167
monesia, 397	seneka, 529	copaiba, 167
musk, 403	senna and jalap, 532	morphia, 166
artificial, 560	gentian, 532	opium, 167
mustard oil, 538	compound, 532	powder, saccharated,
myrrh, 406	skunk cabbage root, 268	506
and hellebore, 406	seed, 268	syrup, 166
Norwood's, 583	snakeroot, black, 226	tincture, 166
nux vomica, 408	Virginia, 535	compound, 166
compound, 408	and balsam Peru,	and foxglove, 166
ethereal, 408	536	Tonies, 80
opium, 426	soap, alkaline, 514	Tonquin powder, 402
acetated, 425	camphorated, 513	Tormentil, 573
ammoniated, 427	soot, 301	decoction, 573
and capsicum, 427	squill, 525	extract, 573
saffron, 426	alkaline, 525	gargle, 573
soap, 428	and benzoin, 525	powder, compound, 573
Bateman's, 427	elaterium, 525	Tous les mois, 607
benzoated, 427	ethereal, 525	Tracing paper, 605
camphorated, 427	stargrass, 107	Tragacanth, 574
compound, 427	stramonium, ethereal, 556	mucilage, 574
extract, 427	leaves, 556	paste, 574
Smith's, 427	seed, 556	powder, compound, 574
succinated, 428	strychnia, 557	Troches, 666. (See Lozenges.)
Swediaur's, 428	sulphate of quinia, 487	Tronchin's lozenges, 84, 141
Warner's, 428	compound, 487	Troy weight, 17
opoponax, 429	sulphuret of potassium, 475	Tulip-tree bark, 376
compound, 429	sumbul, 565	infusion, 376
orange berries, compound,	tansy, compound, 568	Turlington's helper 174
158	tartrate of iron, compound,	Turlington's balsam, 174 Turmeric, 262
orange-peel, 157	287 tohagas 566	Turner's cerate, 182
pareira brava, 433 pellitory, 479	tobacco, 566 tolu, 116	Turpentine, 571
compound, 479	tulip-tree bark, 376	clyster, 571
Peruvian bark, 230	valerian, 578	electuary, 571
ammoniated, 231	ammoniated, 578	liniment, 571
and cantharides,	compound, 578	mixture, 572
231	with castor, 578	oil, 413
gentian, 231	compound, 579	ointment, 572
quassia, 480	ethereal, 578	compound, 572
valerian, 231	and Hoffmann's ano-	pills, 571
compound, 230	dyne, 579	with guaiacum, 571
phosphoric, of myrrh, 99	vanilla, 580	jalap, 571
phosphorus, 437	veratria, 581	magnesia, 571
piperina, 440	white hellebore, 582	myrrh, 571
poison oak, 574	Winter's bark, 584	rhubarb, 571
poke, 438	wormwood, 83	plaster, 572
protochloride of iron, 284	alkaline, 83	compound, 572
quassia, 480	yellow jasmine, 307	syrup, terebinthinate, 572
and cinchona, 480	Toast water, 609	Tutty ointment, 590
compound, 480	Tobacco, 566	Twaddle's hydrometer, 35
quinia, 481		The state of the s

### U

Unguentum populeum, 348 Unparalleled water, 375 Urinometer, 38 Uva ursi, 576 Uva ursi, decoction, 576 extract, 576 fluid, 577 mixture, 577 Uva ursi, powder, compound, 576 syrup, 577

### V

Valerian, 577 bolus, with iron, 577 sulphate of potassium, electuary, 578 extract, 579 fluid, 579 infusion, 578 compound, 578 mixture, with ammonia, 579 Hoffmann's anodyne, 579 oil, 579 with ammonia, 579 pills, compound, 578 powder, compound, 577 syrup, 578 tincture, 578 ammoniated, 578 castor, 578 compound, 578 compound, 579 ethereal, 578 with Hoffmann's anodyne, 579 water, distilled, 578 wine, 579 Valerianate of ammonium, 131 bismuth, 176 iron, 299 quinia, 488 sodium, 550 zine, 592 Valerianie acid, 102 artificial, 102 Vallet's mass, 281 Vanilla, 580 arrowroot, 580 essence, 580 extract, fluid, 580

Vanilla, milk, 580 powder, saccharated, 506 spirit, 580 sugar, 580 tincture, 580 Vapor bath, 670 Varnishes, 605 Varnish, amber, 606 copal, 606 crystal, 389 furniture, 606 Japan, 606 lac, 606 aqueous, 606 leather, 605 metal, 605 picture, 389 Veal tea, 608 Vegetable broth, 607 Velpeau's collyrium, 335 Venesection, 682 Ventilation of sick room, 60 Veratria, 580 glycerite, 581 liniment, 581 compound, 581 lotion, 581 muriate, 582 nitrate, 582 ointment, 581 with iodine, 582 morphia, 582 opium, 581 pills, 581 with henbane, 581 sulphate, 582 solution, 582 tincture, 581 Verdigris, 258 Vermifuge sugar, 505 Vesicatories, 676 Vinegar, 85

Vinegar, cataplasm, 86 distilled, 86 gargle, 86 mixture, 85 and cardamom, 86 syrup, 86 wash, 86 whey, 366 aromatic, 87 spirit, 87 bloodroot, 510 borax, 543 camphorated, 87 cantharides, 198 carbolic acid, 91 Cayenne pepper, 203 cinnamon, compound, 234 coffee, 237 colchicum root, 239 seed, 240 elder flowers, 509 four thieves, 87 foxglove, 266 lobelia, 377 opium, 425 prophylactic, 87 rosemary, aromatic, 499 roses, compound, 499 sage, 509 squill, 527 stavesacre, 554 Vinegars, 654 Violet, 584 conserve, 584 honey, 584 oil, 584 syrup, 584 Virginia snakeroot, 535 Vocabulary of words used in prescriptions, 48 Volatile oil, 659 Vulnerary, Theden's, 99

## W

Wakaka, 180
Walnut, white, 361
Ward's essence, 194
paste, 439
Warm bath, 668
Warner's cordial, 494
tincture, 428
Wash, black, 341
cosmetic, 174, 543

lozenges, 580

Wash, detergent, 116
ophthalmic, 258
red iodide of mercury, 339
sal ammoniac, 128
vinegar, 86
yellow, 342
Water, allspice, 439
ammonia, 121
anemone, 136

Water, angelica, 136
anise, 138
anti-hysteric, 393
apple, 609
aromatic, 508
arquebusade, 394
arrowroot, 388
assafetida, compound, 155
avens, 311

W	ater, balm, 392	Water, unparalleled, 375	Wine of beef and iron, 285
	Barèges, artificial, 549	Vichy, artificial, 541	black hellebore, 322
	barley, with nitrate po-		blessed thistle, 215
	tassium, 325	bottle, 605	bryony, 179
	bitter almonds, 133, 134	cerate, 216	eamphor, 193
	brooklime, 169	cloth, 216	eascarilla, compound, 21
	camphor, 192	Galen's, 216	centaury, compound, 215
	and laudanum, 192	eintment, 216	cinchonia, 233
	nitrie acid, 192	plaster, 216	einnamon, 234
	Hoffmann's ano-	rose lip-salve, 216	compound, 234
	dyne, 192	sealing, 604	citrate of iron, 285
	caraway, 207	Wedell's elixir, 525	aromatic, 285
	carbolic acid, 91	Weights and measures, 17	cloves, 208
	cephalic, 508	apothecaries', 20	colchicum root, 239
	chalybeate, artificial, 282	avoirdupois, 17	seed, 239
	cherry, 134	Dublin, 20	compound, 240
	cherry-laurel, 370	foreign, 21	diuretic, 415
	chicken, 608	French, 21	dogwood, round-leaved,
	chlorine, 222	metrical, 21	252
	chloroform, 224	relation to troy	ergot, 272
	cinnamon, 235 vinous, 235	weights, 26	foxglove, 266
		troy, 17	gentian, 309
	citrate of magnesium, 382 clove, 208	relation to metrical	compound, 309
	Cologne, 374	weights, 25	hedge hyssop, 317
	coriander, compound, 250	Wandt's minture 25	horseradish, 149
	creasote, 253	Wendt's mixture, 85 Whey, 366	iodide of iron, 290
	distilled, 656	alum, 366	ipecacuanha, 358
	diuretic, 134	aromatic, 366	alkaline, 358
	elder flower, 509	cream of tartar, 366	and tartar emetic, 35
	fennel, 300	mustard, 366	compound, 358
	German chamomile, 391	tamarind, 366	iron, 279, 283
	Goulard's vegeto-mineral,	tartarized soda, 464	aromatic, 285
	445	vinegar, 366	bitter, 287, 598
	honey, 391	wine, 366	sweet, 285
	Hungary, 500	White avens, 311	oil of turpentine, 415
	Husson's, 239, 241	hellebore, 582	opium, 426
	ioduretted, 468	cephalic snuff, 582	Sydenham's, 426 pepsin, 434
	lavender, 371	decoction, 582	Peruvian bark, 232
	lead, 445	ointment, 583	and iron, 232
	lemon-peel, 373, 609	compound, 583	persimmons, 268
	lettuce, 369	powder, 582	quassia, 480
	lime, 185	tincture, 582	quinia, 487
	and carbonate of po-	wine, 582	aromatic, 487
	tassium, 186	lead, 447	rennet, 435
	milk, 186	precipitate, 331	rhubarb, 495
	compound, 186	ointment, 331	and gentian, 495
	linden, 573	walnut, 361	compound, 495
	medicated, 595, 656	White's pills, 336	roses, 499
	extemporaneous pre-	Whytt's pills, 110	senna, compound, 532
	parations, 595	Wild cherry bark, 478	squill, 525
	opium, 424	fluid extract, 479	bitter, 525
	orange-flower, 159	infusion, 478	compound, 525
	oriental, 459	syrup, 478	stramonium, 556
	partridge-berry, 307	ginger, 152	sulphate of quinia, 487
	peppermint, 393	infusion, 152	aromatic, 487
	rice, 430	indigo, 167	tar, 442
	rose, 497	ipecacuanha, 276	tartrate of iron, 287
	sage, 508	powder, compound, 276	compound, 287
	concentrated, 508	lettuce, 368	tobacco, 566
	Saint-Sauveur artificial, 549	potato, 247	valerian, 579
	sedative, Raspail's, 194	Wilkinson's liniment, 130	Virginia snakeroot, 536
		Willis's syrup, 475	white hellebore, 582
	Seidlitz, artificial, 541 Selter's (Seltzer) artificial,	Willow bark, 507	wormwood, 84
	541	decoction, 508	yellow ladies' bedstraw,
	souchy, 609	dentifrice, 508	304
	spearmint, 394	extract, 508	Wine, antimonial, 144
	sulphur, 563	ointment, 508	diuretic, 415
	sulphuret of potassium, 475	Wine of accepte company d 102	measure, 26
	sulphuretted, artificial, 95,	Wine of aconite, compound, 103	mulled, 610
	549	aloes, 112 alkaline, 112	Whey, 363
	tar, 442	balsamic, 112	Winter's bark 584
	toast, 609	American hellebore, 583	Winter's bark, 584
		Zimerican nenebote, 500	tincture, 584

Wistar's cough lozenges, 313 Witch hazel, 321 Wolfsbane, 149 Wood sorrel, 85 extract, 85 Wormseed, 220 decoction, 220 oil, 220

Wormseed oil, mixture, 220 Worm tea, 504, 551 Wormwood, 83 clyster, 83 essential oil, 84 extract, 83 infusion, 83 oil, 84

Wormwood, ratafia, 84 spirit, compound, 84 syrup, 83 tincture, 83 alkaline, 83 wine, 84 Wright's pills, 328

Yarrow, 86 extract, 86 mixture, 86 Yeast, beer, 277 Yellow jasmine, 307 extract, fluid, 307 Yellow jasmine tincture, 307 ladies' bedstraw, 304 infusion, 304 wine, 304 root, 346, 585 extract, 585

Yellow root, extract, fluid, 346 infusion, 585 oxide of mercury, 342 sulphate of mercury, 344 wash, 342 Yves ophthalmic ointment, 343

### Z

Zanetti's hydrometer, 35 Zinc, 703 solder for, 605 acetate, 585 collyrium, 585 injection, 586 lead, 586 lotion, 586 tincture, 586 carbonate, 586 cerate, 586 plaster, 586 precipitated, 586 chloride, 586 disinfectant, 587 injection, 587, 598 lotion, 587 paste, Canquoin's, 587 solution, 586 suppository, 587 tincture, ethereal, 587 cyanide, 587 pills, 588 powder, 587 ferrocyanide, 588 mixture, 588

Zinc, ferrocyanide, pills, compound, 588 Zinc, oxide, powder, with columbo, 589 powder, 588 solution, 588 iodide, 588 eollyrium, 588 ointment, 588 solution, 588 concentrated, 588 syrup, 589 lactate, 589 nitrate, 589 paste, 589 oxide, 589 cerate, with lycopodium, 590 lotion, 590 ointment, 590 with calomel, 590 opium, 590 tutty, 590 pills, 590 compound, 590 powder, 589 compound, 589 dusting, 590

sulphate, 590 collyrium, 591 with camphor, 591 fomentation, 591 gargle, 591 injection, 592 lotion, 592 white caustic, 591 mixture, 592 pills, 590 compound, 591 with turpentine, 591 myrrh, 591 plaster, 591 solution, 591 alkaline, 591 sulpho-carbolate, 592 solution, 592 collodion, 592 valerianate, 592 mixture, 592 pills, 592 Zittmann's decoction, 517

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#### CONDENSED SUMMARY OF CONTENTS.

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#### INDEX TO CATALOGUE.

		-		
American Journal of the Medical Sciences	PAG	1		PAGE
American Chemist (The)		ii	Lea's Superstition and Force	. 31
Abstract, Half-Yearly, of the Med. Sciences		3	Lea's Studies in Church History	31
Anatomical Atlas, by Smith and Horner .	0	6	Leishman's Midwifery	25
		-	La Roche on Yellow Fever	14
Anderson on Diseases of the Skin		20	La Roche on Pneumonia, &c.	. 17
Ashton on the Rectum and Anus		28	Laurence and Moon's Ophthalmic Survey	. 29
Attfield's Chemistry		10	Lawson on the Eye	28
Ashwell on Diseases of Females		23	Laycock on Medical Observation	14
Ashhurst's Surgery Barnes on Diseases of Women		27	Lehmann's Physiological Chemistry, 2 vols.	. 9
Barnes on Diseases of Women		23	Lehmann's Chemical Physiology	. 8
Bellamy's Surgical Anatomy Bryant's Practical Surgery		7	Lehmann's Physiological Chemistry, 2 vols.  Lehmann's Chemical Physiology  Ludiow's Manual of Examinations	6
Bryant's Practical Surgery	. :	29	Lyons on Fever	18
Blandford on Insanity	. 1	10	Maclise's Surgical Anatomy . Marshall's Physiology .	7
Blandford on Insanity	. 3	31	Marshall's Physiology	8
Basham on Renal Diseases	. 1	18	Medical News and Library Meigs's Obstetrics, the Science and the Art	2
Brinton on the Stomach	. 1	16	Meigs's Obstetrics, the Science and the Art	25
Bigelow on the Hip Barlow's Practice of Medicine Bowman's (John E.) Practical Chemistry	1 5	28	Meigs's Lectures on Diseases of Women	23
Barlow's Practice of Medicine		15	Meigs on Puerperal Fever Miller's Practice of Surgery Miller's Principles of Surgery	23
Bowman's (John E.) Practical Chemistry .		11	Miller's Practice of Surgery	26
Bowman's (John E.) Medical Chemistry .		1	Miller's Principles of Surgery	26
Buckler on Bronchitis	1		Montgomery on Pregnancy	25
Bumstead on Venereal		19	Morland on Urinary Organs	27
Bumstead and Cullerier's Atlas of Venereal		19	Morland on Urmmin	
Carpenter's Human Physiology		8	Morland on Uramia Neill and Smith's Compendium of Med. Science.	5
Carpenter's Comparative Physiology			Noligan's Atlanta Dissessed of the Chia	20
Carpenter on the Use and Abuse of Alcohol		8	Neligan's Atlas of Diseases of the Skin Neligan on Diseases of the Skin	
		13	Mengan on Diseases of the Skin	20
Carson's Synopsis of Materia Medica		13	Obstetrical Journal	22
Chambers on the Indigestions	. 1	10	Odling's Practical Chemistry	10
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Knapp's Chemical Technology	. 11	1	Winckel on Childbed	19
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