

## **Silverlock's medical and surgical emergency reference book.**

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SILVERLOCK'S  
MEDICAL AND SURGICAL  
EMERGENCY  
REFERENCE BOOK.

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ENTERED AT STATIONERS' HALL.

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London :  
H. SILVERLOCK, BLACKFRIARS ROAD. S.E.  
1891.

[1885?]



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Extract from "THE LANCET."

*Silverlock's Medical and Surgical Emergency Reference Book.*  
London: H. Silverlock. 1885.—This little book of reference contains, in a handy and portable form, a large amount of information upon subjects so varied that the busy practitioner can hardly be expected to have their details ever present to his memory. As a means of saving time this *vade mecum* will be found most useful.

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## PREFACE.

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THIS book is intended as a regular *Vade Mecum*, and its object is to save time in cases of emergency.

The list of Consulting Physicians and Surgeons given at the end is introduced solely for this object. It is necessarily somewhat incomplete, but no doubt it will be made more perfect as time goes on. At home Churchill's Medical Directory is always at command, but it is impossible to carry such a book about on one's daily rounds.

The Publishers will be glad to receive suggestions for rendering the book more complete.



## CONTENTS.

	<b>Page</b>
<b>AGENTS, MEDICAL—LONDON AND PROVINCIAL .. .. .</b>	<b>123</b>
<b>ALCOHOL TABLE .. .. .</b>	<b>42</b>
<b>AMBULANCES, PRIVATE, FOR INFECTIOUS CASES .. .. .</b>	<b>64</b>
<b>ARTIFICIAL LIMBS, CRUTCHES, &amp;c.—MAKERS OF .. .. .</b>	<b>122</b>
<b>ASSES' MILK—DAIRIES FOR THE SUPPLY OF .. .. .</b>	<b>47</b>
<b>ASYLUMS, LUNATIC, PRIVATE—METROPOLITAN &amp; PROVINCIAL .. .. .</b>	<b>105</b>
" <b>PRIVATE—IRELAND .. .. .</b>	<b>109</b>
" <b>" SCOTLAND .. .. .</b>	<b>109</b>
" <b>UNITED COUNTIES AND BOROUGH .. .. .</b>	<b>107</b>
<b>AVERAGE HEIGHTS AND WEIGHTS OF MAN .. .. .</b>	<b>41</b>
" <b>NORMAL WEIGHT AND SIZE OF THE PRINCIPAL ORGANS IN THE ADULT .. .. .</b>	<b>42</b>
<b>BATHS, MEDICAL AND ELECTRIC—LONDON AND PROVINCIAL .. .. .</b>	<b>111</b>
" <b>TEMPERATURE OF .. .. .</b>	<b>33</b>
" <b>TURKISH .. .. .</b>	<b>111</b>
<b>BENEVOLENT SOCIETIES, MEDICAL—LONDON &amp; PROVINCIAL .. .. .</b>	<b>124</b>
<b>BLIND—COLLEGE FOR TEACHING THE BLIND MUSIC .. .. .</b>	<b>110</b>
" <b>GENERAL EDUCATIONAL COLLEGE FOR .. .. .</b>	<b>110</b>
" <b>INSTITUTIONS FOR THE BLIND POOR—LONDON AND PROVINCIAL .. .. .</b>	<b>111</b>
<b>BRITISH PHARMACOPEIA ADDITIONS, 1890 .. .. .</b>	<b>29</b>
" <b>PHARMACEUTICAL CONFERENCE UNOFFICIAL FORMULARY, 1888 AND 1889 .. .. .</b>	<b>30</b>
<b>CARRIAGES FOR THE REMOVAL OF INVALIDS .. .. .</b>	<b>122</b>
<b>CHLOROFORMISTS AND ETHERISTS—LONDON &amp; PROVINCIAL .. .. .</b>	<b>98</b>
<b>COMMISSIONERS IN LUNACY .. .. .</b>	<b>105</b>
" <b>" IRELAND .. .. .</b>	<b>109</b>
" <b>" SCOTLAND .. .. .</b>	<b>108</b>
<b>CONSULTING PHYSICIANS AND SURGEONS .. .. .</b>	<b>90</b>
<b>DEAF AND DUMB—ASYLUM FOR .. .. .</b>	<b>110</b>
" <b>" INSTITUTES FOR TEACHING DEAF MUTES TO SPEAK AND UNDERSTAND SPEECH .. .. .</b>	<b>110</b>
" <b>" PRIVATE HOMES FOR .. .. .</b>	<b>110</b>
<b>DENTITION—TABLE SHOWING ORDER OF, AND AVERAGE AGE AT ERUPTION .. .. .</b>	<b>34</b>
<b>DIABETIC PATIENTS—MAKERS OF BREAD, BISCUITS, &amp;c. FOR DIGESTION OF VARIOUS ARTICLES OF FOOD—TIME REQUIRED FOR .. .. .</b>	<b>47</b>
<b>DIPSOMANIACS—ESTABLISHMENTS FOR .. .. .</b>	<b>45</b>
<b>DIPLOMATS—ESTABLISHMENTS FOR .. .. .</b>	<b>117</b>
<b>DISINFECTORS AND CHEMICAL PURIFIERS .. .. .</b>	<b>64</b>
<b>DOSES, PROPORTIONATE, ACCORDING TO AGE .. .. .</b>	<b>34</b>
" <b>TABLE OF .. .. .</b>	<b>16</b>
<b>DROWNING—DR. SYLVESTER'S METHOD OF PRODUCING ARTIFICIAL RESPIRATION .. .. .</b>	<b>60</b>
" <b>THE READY METHOD IN SUSPENDED RESPIRATION FROM .. .. .</b>	<b>60</b>
" <b>TREATMENT OF APPARENTLY DROWNED PERSONS .. .. .</b>	<b>59</b>
<b>DRUGS—ANTAGONISM OF .. .. .</b>	<b>58</b>
<b>EPIDEMIC DISEASE—INQUIRIES NECESSARY FOR FINDING OUT ORIGIN OF .. .. .</b>	<b>64</b>
<b>EPILEPTIC CHILDREN—EDUCATIONAL INSTITUTE FOR .. .. .</b>	<b>110</b>
<b>ETIQUETTE—PROFESSIONAL .. .. .</b>	<b>8</b>
<b>EXPECTATION OF LIFE FOR HEALTHY MALES—TABLE OF .. .. .</b>	<b>40</b>
<b>FEE CLAIMABLE BY MEDICAL MEN .. .. .</b>	<b>11</b>
" <b>PROFESSIONAL .. .. .</b>	<b>9</b>
<b>FOOD, ARTICLES OF, PLACED ACCORDING TO THE VALUE OF CARBON NITROGEN .. .. .</b>	<b>48</b>
" <b>" " PREPARED FOR INVALIDS .. .. .</b>	<b>46</b>
" <b>SUITABLE FOR INFANTS .. .. .</b>	<b>47</b>
" <b>THE NUTRITIVE VALUE OF .. .. .</b>	<b>46</b>
<b>HABITUALLY DRUNKARDS—GOVERNMENT INSPECTOR.. .. .</b>	<b>117</b>
<b>HOSPITALS FOR THE INSANE—ENGLAND .. .. .</b>	<b>108</b>
" <b>" IRELAND .. .. .</b>	<b>109</b>
" <b>" SCOTLAND .. .. .</b>	<b>108</b>
" <b>HOME—LONDON, PROVINCIAL, AND CONTINENTAL .. .. .</b>	<b>115</b>
" <b>INLAND CONVALESCENT—ENGLAND AND SCOTLAND .. .. .</b>	<b>114</b>
" <b>" FOR CONVALESCENTS FROM SCARLET FEVER .. .. .</b>	<b>112</b>

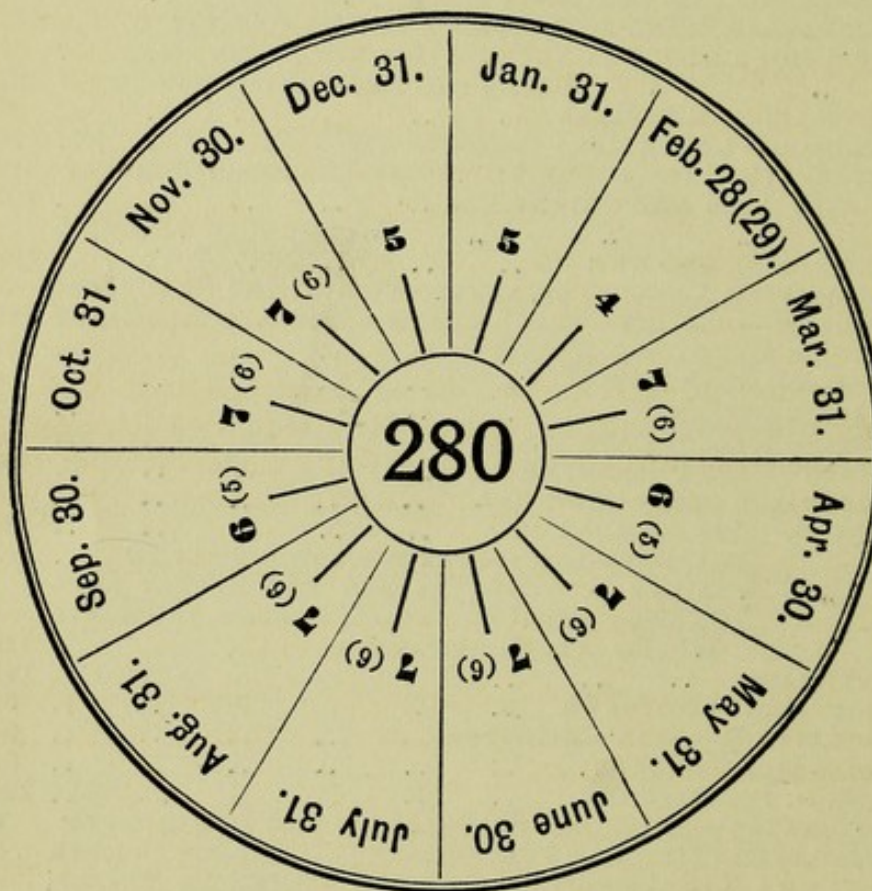


	Page
HOSPITALS, LONDON GENERAL—PHYSICIANS AND SURGEONS ATTACHED TO THE CHIEF	65
"    "    "    TIMES OF ATTENDANCE FOR OUT-PATIENTS .. ..	76
"    "    SPECIAL—TIMES OF ATTENDANCE FOR OUT-PATIENTS .. ..	79
"    PROVINCIAL GENERAL—PHYSICIANS AND SURGEONS ATTACHED TO THE CHIEF	81
"    "    SPECIAL .. ..	87
"    IRISH SPECIAL .. ..	89
"    SCOTCH SPECIAL .. ..	89
"    SEA-SIDE CONVALESCENT—ENGLAND, IRELAND, SCOTLAND, AND WALES .. ..	112
"    "    FOR CASES RECOVERING FROM INFECTIOUS DISEASES .. ..	112
"    "    FOR DISEASES OF THE CHEST .. ..	114
"    "    PRIVATE, FOR NON-INFECTIOUS CASES	112
HYDROPATHIC ESTABLISHMENTS—A FEW OF THE CHIEF ..	116
HYPODERMIC REMEDIES .. ..	32
IMBECILE CHILDREN, TRAINING INSTITUTIONS FOR—ENGLAND AND SCOTLAND .. ..	110
INCURABLES, HOME FOR—LONDON AND PROVINCIAL ..	116
INFECTIOUS DISEASES NOTIFICATION ACT (1889) ..	64
"    "    RULES FOR THE PREVENTION OF ..	61
INHALATION REMEDIES .. ..	32
INSURANCE COMPANIES—SICKNESS AND ACCIDENT ..	123
INVALID CHAIRS, TABLES, & COUCHES—MANUFACTURERS OF	122
LUNACY ACTS AMENDMENT ACT .. ..	102
"    "    "    "    WORKHOUSE MEDICAL OFFICERS AND THE .. ..	102
LUNGS, VITAL CAPACITY OF, AS INDICATED BY THE SPIROMETER	41
MEDICAL JOURNALS—PUBLISHERS & OFFICES OF THE CHIEF	125
MEDICO-GYMNASTIC INSTITUTE .. ..	111
MEDICO-LEGAL NOTES .. ..	14
METRIC SYSTEM .. ..	37
METRIC WEIGHTS AND MEASURES—TABLE OF .. ..	39
MILKS—BEST PRESERVED .. ..	47
MINERAL WATERS—NATURAL .. ..	48
NURSES—MANAGEMENT OF .. ..	63
"    MONTHLY—INSTITUTES FOR THE SUPPLY OF ..	121
"    TRAINED—INSTITUTES FOR THE SUPPLY OF—LONDON AND PROVINCIAL, SCOTCH, IRISH AND WELSH, AND CONTINENTAL .. ..	118
OPTICIANS .. ..	121
POISONINGS—NOTES ON .. ..	51
POISONS AND THEIR ANTIDOTES .. ..	54
POISONOUS FUNGI .. ..	58
POSTAL INFORMATION .. ..	126
PREGNANCY—TABLE FOR CALCULATING THE DURATION OF	6
REGISTERED MEDICAL PRACTITIONERS RESIDENT IN SOME OF THE MOST IMPORTANT FOREIGN WATERING PLACES, CITIES, AND TOWNS .. ..	99
REGISTRATION OF BIRTHS AND DEATHS .. ..	13
ROYAL SEA-BATHING INFIRMARY .. ..	112
RUBBERS—ESTABLISHMENTS FOR THE SUPPLY OF ..	121
SANITARY ASSOCIATIONS .. ..	63
SANITARY DEPARTMENT, LOCAL GOVERNMENT BOARD ..	61
SATURATION TABLE .. ..	33
SPECTACLES TO THE POOR—SOCIETY FOR THE SUPPLY OF	123
SURGICAL INSTRUMENTS, &c.—SOCIETIES FOR SUPPLYING	123
SURGICAL INSTRUMENT MAKERS—LONDON AND PROVINCIAL	122
TESTS, CHEMICAL, FOR MORBID STATES OF THE URINE ..	36
"    FOR ALBUMEN .. ..	36
"    FOR POISONS—EASY AND RAPID .. ..	56
"    POCKET .. ..	36
THERMOMETRIC SCALES—COMPARISON OF CENTIGRADE AND FAHRENHEIT .. ..	35
TRUSS SOCIETIES .. ..	123
VACCINE ESTABLISHMENT, NATIONAL .. ..	7
ZYMOTIC DISEASE—THE MEANS NECESSARY TO BE TAKEN FOR PREVENTING THE SPREAD OF .. ..	61



# TABLE FOR CALCULATING THE DURATION OF PREGNANCY.

(AFTER SCHULTZE.)



Reckon three months back from the last day of menstruation, and add to this date the number standing below the name of that month.

Thus:—Last Menstruation .. .. . Feb. 10th.  
 Same day three months back .. .. Nov. 10th.  
 Nov. 10th + 7 .. .. . Nov. 17th.  
 Or in Leap Year, Nov. 10 + 6 .. .. Nov. 16th.

# NATIONAL VACCINE ESTABLISHMENT

## FOR THE

### GRATUITOUS DISTRIBUTION OF VACCINE LYMPH.

---

Lymph may be obtained, *on personal application*, at the Medical Department of the Local Government Board, New Government Offices, S.W., between the hours of 12 and 2.

*Letters of Application* for Lymph should be addressed as follows:—

To the Secretary,  
 The Local Government Board,  
 New Government Offices,  
 Charles Street, London. S.W.  
*National Vaccine  
 Establishment.*

Lymph is only distributed to *legally-qualified Medical Practitioners*; and it is particularly requested that, upon written applications for Lymph being made, the *name and address of the applicant* should be legibly written.

---

## CALF VACCINE.

A limited supply of Calf Lymph, *for primary cases*, can now be obtained from the Government Institution gratis. It may also be had from—

W. FAULKNER, 16, Endell Street, Bloomsbury.  
 The ASSOCIATION FOR THE SUPPLY OF PURE VACCINE,  
 12, Pall Mall East, S.W.  
 Dr. RENNER, 186, Marylebone Road. W.  
 Messrs. ALLEN & HANBURY, Plough Court, 37, Lombard  
 Street. E.C.  
 W. MARTINDALE, 10, New Cavendish Street. W.  
 Dr. GREISBACH, 179, Belle Vue Road, Leeds.  
 Messrs. FERRIS & Co., Bristol.  
 Dr. HIME, 54, Horton Road, Bradford, Yorks.

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*The Tubes are from 2s. to 2s. 6d. each.*

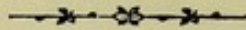
*Points from 6d. to 1s. each.*

*Glass Plates, 2s. 6d. each.*



# PROFESSIONAL ETIQUETTE.

ETC.



I.—Medical men should always avoid making disparaging remarks of members of the profession, more especially those in the same district, and they should discountenance, as far as possible, remarks of this character by persons outside of the profession.

II.—No one should solicit practice or offer gratuitous advice to the poor, by advertisement, circular, card, or placard, and no one should publish, allow, or cause to be published, cases and operations in non-medical papers.

III.—Medical men, their wives, children, and servants, should be attended gratuitously; but where an honorarium is offered by one in good circumstances, it should not be refused.

Curates as a rule should come under this head.

IV.—Medical men should be willing to assist their professional brethren in all emergencies. They should also do all in their power for those in ill health, and be particularly careful not to take advantage of any enforced absence.

V.—It would be as well if the families of medical men, as a rule, were to abstain from being on regular visiting terms with the patients of other practitioners in the neighbourhood.

VI.—A medical man when requested to see a case for another practitioner, should after the visit has been made carefully abstain from seeing the patient again, or calling to enquire how he is getting on. If subsequently requested to take sole charge he should courteously but firmly decline.

VII.—When two medical men are called upon to attend a case of accident or sudden emergency, and the patient has no regular attendant, the one who arrives first should have charge of the case.

VIII.—When a medical man attends a case of Midwifery for another, he is entitled to half the fee.

IX.—Medical men, (out of consideration for the Public Vaccinator,) should abstain from vaccinating gratuitously the children of the poorer classes.

X.—Public Vaccinators should not canvass for cases among the private patients of a fellow practitioner, nor should they, as a rule, vaccinate in their public capacity out of the district.

XI.—When a consultation takes place between two medical men, there should be nothing in the tone or manner of the consultant which should tend to lessen the patient's confidence in his regular medical attendant. No observations as to the nature of the case, its probable issue, or the treatment to be pursued, should be made, till matters have been privately discussed in a separate apartment, and only those opinions or prognostications should be communicated by the consultant to the patient or his friends that have been mutually agreed upon.

XII.—When a medical man is called in by his partner to act as consultant, he is not entitled to charge an extra fee.

XIII.—A medical man should not decline to meet another merely because he is his junior, but he may without any impropriety represent the advantage of consulting with one who has an acknowledged position in the profession.

XIV.—A Consulting Physician should never under ordinary circumstances see a patient, except in the presence of, or by a written request of, the usual attendant.

XV.—Medical men should, as far as possible, act towards qualified assistants in the same manner as to their ordinary fellow practitioners.

XVI.—A *Locum Tenens* is bound by every principle of honour, to protect his friend's interest, and he should refuse all inducements held out by the patients to practice among them, after his term of office has expired.



XVII.—Partners should act towards each other upon the same rules as have been already laid down.

XVIII.—A medical man, when requested by his partner to take charge of any particular case, should have everything in his own hands, and the partner who has resigned the case should have nothing further to do with it again, till requested by the one in charge.

XIX.—When two partners are living in the same house, and a new patient sends for some one to attend, without naming either partner, the wishes of the senior should be consulted, the one who first sees the patient should have charge of the case.

XX.—When one succeeds another after partnership, it is usual for him to retain appointments which belonged to the firm, and it is not considered right, for any professional brother to oppose his election.

If a medical man is engaged to attend a woman during confinement and another is subsequently engaged, the contract with the first holds good, unless reasonable notice has been given of the change.

A master is not responsible for the payment of debts incurred by his servants for medical attendance unless he has himself sent for the doctor, or has made an agreement with him beforehand.

Certificates of death in the case of persons insured should be paid for by those interested in the policy.

Infants are liable to be sued for medical attendance, whether living in their father's house or not.

Medical and Surgical Practitioners are not necessarily liable for errors in judgment, and no action can be maintained unless it can be proved that there has been a want of ordinary skill.

## PROFESSIONAL FEES.

According to the Tariff of various branches of the British Medical Association, the division of Patients into classes is based upon their presumed income, the rental being taken as an average test of the income. No charge is made for medicines unless extra medicine be supplied, or continued to be supplied, independently of visits. Medical men base their title to remuneration upon the value of their time and skill.

The following table is chiefly taken from the Shropshire tariff.

GENERAL PRACTITIONERS.	CLASS I. Rental, 10 <i>l.</i> —25 <i>l.</i>	CLASS II. Rental, 25 <i>l.</i> —50 <i>l.</i>	CLASS III. Rental, 50 <i>l.</i> —100 <i>l.</i>
1. Ordinary Visit .....	2 <i>s.</i> 6 <i>d.</i> to 5 <i>s.</i>	3 <i>s.</i> 6 <i>d.</i> to 7 <i>s.</i>	5 <i>s.</i> to 10 <i>s.</i> 6 <i>d.</i>
2. { Special Visit .....	A visit and	a Half.	42 <i>s.</i>
{ Evening Visit (7 to 11) .... }			
3. Night Visit, 11 p.m. 6 a.m. ....	10 <i>s.</i> 6 <i>d.</i>	21 <i>s.</i>	
4. Mileage beyond one mile from home .....	1 <i>s.</i> to 1 <i>s.</i> 6 <i>d.</i>	1 <i>s.</i> 6 <i>d.</i> to 2 <i>s.</i>	2 <i>s.</i> to 2 <i>s.</i> 6 <i>d.</i>
5. Detention per half hour .....	2 <i>s.</i> 6 <i>d.</i> to 5 <i>s.</i>	3 <i>s.</i> 6 <i>d.</i> to 7 <i>s.</i>	5 <i>s.</i> to 10 <i>s.</i> 6 <i>d.</i>
6. Advice at Practitioner's House	Same Charge as for Ordinary Visit.		
7. Letters of Advice or Prescription .....	5 <i>s.</i> to 7 <i>s.</i>	7 <i>s.</i> to 10 <i>s.</i> 6 <i>d.</i>	10 <i>s.</i> 6 <i>d.</i> to 21 <i>s.</i>
8. Attendance on Servants .....	2 <i>s.</i> 6 <i>d.</i>	3 <i>s.</i> 6 <i>d.</i>	3 <i>s.</i> 6 <i>d.</i> to 5 <i>s.</i>
9. Consultations .....			
10. Two or more Patients in one House .....	See Explanatory Tariff		
11. Abortions .....			
12. Certificates of Health, &c. .... }	5 <i>s.</i> to 7 <i>s.</i>	5 <i>s.</i> to 10 <i>s.</i> 6 <i>d.</i>	7 <i>s.</i> to 21 <i>s.</i>
13. Vaccination .....			
14. Midwifery—			
Ordinary Case .....	21 <i>s.</i> to 42 <i>s.</i>	21 <i>s.</i> to 63 <i>s.</i>	{ 63 <i>s.</i> to 105 <i>s.</i> and upwards.
Difficult Case .....	A Fee and a Double Fee	Half.	
Operative Case .....			
Administration of Chloroform	10 <i>s.</i> 6 <i>d.</i> to 21 <i>s.</i>	21 <i>s.</i> to 31 <i>s.</i> 6 <i>d.</i>	21 <i>s.</i> to 42 <i>s.</i>



PROFESSIONAL FEES—*Continued.*

## EXPLANATORY NOTES.

## GENERAL PRACTITIONERS.

2.—A visit of which notice is not given before 10 a.m., when the Practitioner has commenced his daily round; also whenever immediate attendance is requested; or a particular hour specified. Either incident is embarrassing to the Practitioner, and entitles him to an increased fee.

5.—When at the desire of patient, or from urgency of the case, the Practitioner is detained more than half an hour, he is entitled to additional remuneration, at the rate per half hour of an ordinary visit. This does not apply to attendance in midwifery.

8.—When paid for by their employer, charge as per Tariff. When paying for themselves, charge as if belonging to Class I or II. If the employer sends for the Practitioner himself, or distinctly avails himself of his advice or opinion, he is to be considered as the responsible person.

9.—When ordinary attendant has to meet another medical man in consultation, he is fully entitled, from loss and disarrangement of time, to the minimum fee of 21s. If such consultations are very frequent, this may be occasionally remitted at his discretion. When a general Practitioner is himself called in consultation, he is also entitled to the Consultant's *minimum* fee of 21s.; but this may be relaxed at the desire of the Practitioner previously in attendance. Midwifery consultations among Class I of Patients, should be charged according to arrangement between the Patient and Practitioners. Among the other Classes, the second Practitioner is entitled to same fee as the first, independently of length of time he is detained.

10.—When these are members of one family and paid for by one person, half a visit is chargeable for each beyond the first. When this is not the case, the full charge should be made for each.

11.—In ordinary premature labour the same charge is allowable as in Midwifery. In attendance on abortions, the visits required should be charged as such, *plus* an additional charge for detention, according to No. 5.

12.—Simple Certificates may be charged as ordinary visits or letters of advice. When special investigation or responsibility is involved, as in Life Assurance or Lunacy Certificate, 21s. to 42s. should be charged, according to circumstances.

14.—From use and wont, the fee for Class I is generally understood to cover the after visits, when these are few and all goes well. In the other classes the after visits are not included, unless previously arranged otherwise.

## CONSULTANT'S

1. Advice or Visit .....	21s.	21s.	21s.
2. Advice or Visit with another Practitioner .....	21s.	21s. to 42s.	21s. to 42s.
3. Mileage beyond two miles from Home .....	10s. 6d.	10s. 6d.	10s. 6d.



## FEES CLAIMABLE BY MEDICAL MEN AT COURTS OF LAW.

(A)—For Attendance upon Accidents on the Public Way.

(B)—In Police Courts.

(C)—In the Coroner's Court.

(D)—At Sessions, Assizes, and in Criminal Courts.

(E)—For Services under the Factory Act.

(A)—**Accidents on the Public Way.**—A medical practitioner called upon by a Police Officer to attend a stranger in a state of insensibility may claim from the Police Authorities a fee of 3s. 6d. if the visit be paid between 8 a.m. and 10 p.m., and 7s. 6d. if between 10 p.m. and 8 a.m. Unqualified Assistants' services are not paid for. Police Constables taken suddenly ill, not being already under treatment, between 10 p.m. and 8 a.m., are paid for by a Night Certificate. It is necessary to take the name of the Inspector on duty, and obtain from him a *certificate of attendance*; the fees are then paid (on application) twice a year.

(B)—**In Police Courts.**—If prisoner is committed for trial, the Magistrate certifies to the Clerk of Arraignment that a fee is due for each day—10s. 6d. if witness lives within two miles of Police Court, 21s. if beyond two miles—and these fees are paid after the trial, at the Sessions or Old Bailey. When the prisoner is *not* committed for trial, the Surgeon should ask the Magistrate for a certificate of attendance (at the same rate), and these are payable daily (except Saturday) between 11 and 3, at Whitehall Place, on production of the certificate.

(C)—**In the Coroner's Court.**—If summoned under the Medical Witnesses Act, *Sch. A. 6 & 7 Will. IV., Cap. 89*, and in the form and manner following, the witness is entitled to a fee of One Guinea for his attendance to give evidence—and a further sum of One Guinea for performing a post-mortem examination, provided such examination be ordered by the Coroner.

### FORM OF SUMMONS.

"Coroner's inquest at the.....in the parish of.....  
in the county of.....upon the body of....."

"By virtue of this my order, as coroner of....., you are required to appear before me and the jury at the place aforesaid, on the.....day of.....one thousand eight hundred and.....at.....of the clock in the .....noon, to give evidence touching the cause of the death of the aforesaid person; and make, or assist in making, a post-mortem examination of the body (with an analysis of the contents of the stomach, if such be necessary), and report thereon at the said inquest.

"To Mr....."

A. B.,  
Coroner."

*Note.*—Unless the summons be worded as above, it is not considered a *medical* summons. Differently framed it is an *ordinary* summons, and carries no fee with it, but the witness is nevertheless bound, under penalty of £5, to obey both forms of summons. The chemical analysis, and subsequent attendance at the inquest to report thereon, is considered a part of the autopsy and included in the fee, nor is a chemist, applied to by the medical witness for assistance, allowed to appear in evidence at the inquest, the latter being held responsible for the joint conclusions of the two.



(D)—At Sessions, Assizes, and in Criminal Courts—In the High Court of Parliament—In Ecclesiastical Courts—And in the Court of Chancery.—If at a Police Court, or the Coroner's Court, the witness should be bound over to attend any subsequent Sessions or Assizes, or to give professional evidence in any of the above Courts, he is paid for such attendances, exclusively of all other fees, a sum per diem varying in different counties, but generally about One Guinea.

The following are the fees for extra Medical Services allowed by the Poor Law Board:—

	£	s.	d.
Compound fracture of Thigh.....	5	0	0
"                    "            Leg.....			
Amputation of Leg, Arm, Foot, or Hand			
Strangulated Hernia .....	3	0	0
Simple Fracture of Thigh or Leg .....			
"    Dislocation of " .....	2	0	0
Amputation of Finger or Toe .....			
Dislocation of Arm.....	1	0	0
Fractures of Arm .....			

The above rates include payment for the supply of all kinds of Apparatus. Fractures of the Patella, Tarsus, Metatarsus, or Toes, of the Ribs, Clavicle, Scapula, Olecranon, Carpus, Metacarpus, Fingers, or Thumbs, are *not* allowed for; neither is any payment made for any other operation whatever, except in the case of Instrumental Midwifery, when a fee of £2 is allowed.

#### (E)—For Services under the Factory Act.

*Scale of Fees to Certifying Surgeons for Investigating and Reporting Accidents, sanctioned by the Secretary of State for the Home Department.*

- 1.—For the examinations and report on any Accident which do not require the Surgeon to travel a greater distance than one mile—a Fee of Three Shillings.
- 2.—For the examinations and report on any Accident which may require the Surgeon to travel a greater distance than one mile, and not more than two miles—Four Shillings.
- 3.—For the examinations and report on any Accident which may require the Surgeon to travel a greater distance than two, and not more than three miles—Five Shillings.
- 4.—If any examination or report shall require a Surgeon to travel a greater distance than three miles, he shall be allowed a further sum of Sixpence for each half mile that such distance shall exceed three miles.
- 5.—In any intricate case, or when any peculiar circumstances shall arise, either in making the enquiry, or framing the report, the Inspectors may recommend a higher Fee than those stated above, so that no Fee exceeding Ten Shillings be assigned for one Accident, and provided the reason for recommending such higher Fee be stated by the Inspector.

#### *Regulations under which Distances are to be Calculated.*

In the Letter to the Secretary of State, approving of the above Scale of Fees, it is stated,—“That the scale of remuneration, which is calculated on distance from residence, should be held to apply to that distance which a Surgeon is compelled to travel to make the examinations, taking the shortest way in his power.”

The distances mentioned in the above Scale refer only to that which a Surgeon has to pass over in proceeding to the Works, together with any additional distance which he may



have to travel to examine the person injured. The distance which he has travelled in *returning* either from the investigation at the Works, or from the examination of the person injured, is not to be added to the mileage; nor must the distance travelled to the place where the injured person is examined be added, unless he has had to travel a greater distance than he would have done in returning from the investigation at the Works, direct to his residence.

#### POOR LAW BOARD EXTRA FEES

For Surgical Operations and Midwifery are allowed to District Officers only—not to the Workhouse Officers—nor are Vaccination Fees allowed to Indoor Officers unless specially mentioned in contract.

#### REGISTRATION OF BIRTHS.

Births in England and Wales must be registered within forty-two days by either of the parents, under a penalty of 40/. In default of the parents, one of the following parties must do so:—(1) The occupier of the house in which the birth took place; (2) Each person present at the birth; (3) The person who has charge of the child. No fee can be charged by the Registrar for registering a birth within three months, unless he is requested to attend at the house, when he is allowed to charge a fee of one shilling.

#### REGISTRATION OF DEATHS.

Deaths must be registered within five days, at the Office of the Registrar for the Sub-district in which the death occurred. No charge for registering a death within twelve months, unless the Registrar attends at a house to register a death, (which he will do on receipt of a written request,) when he is entitled to charge a fee of one shilling.

The following persons are qualified to be informants for the registration of deaths:—(1) The nearest relatives of the deceased present at the death or in attendance during the last illness; and in their default, any other relative residing in the same Sub-district as the deceased; in default of all such relatives, (2) each person present at the death, and the occupier of the house in which the death occurred; in default of all the persons above mentioned, (3) an inmate of the house in which the death occurred or the person causing the body to be buried.

By Section 20 of the Births and Deaths Registration Act, 1874, it is enacted that:—"In case of the death of any person who has been attended during his last illness by a registered medical practitioner, that practitioner shall sign and give to some person required by this Act to give information concerning the death, a certificate stating to the best of his knowledge and belief, the cause of death, and such person shall, upon giving information concerning the death or giving notice of the death, deliver that certificate to the Registrar, and the cause of death as stated in that certificate shall be entered in the register together with the name of the certifying medical practitioner."



## MEDICO-LEGAL NOTES

ARRANGED BY

M. BAINES, M.D. LOND.

Never give a certificate of death unless you saw the patient *before* death, or unless you knew well the nature of the illness from which he died. In all cases of sudden death, poisonings, suicides, suspicious or accidental death from violence of *any kind* whatsoever, give notice to the coroner, his summoning officer, or the police.

In all cases of suspected death from poisoning, retain any vomited or voided matter, if possible, and also the stomach with its contents, in case of either being required for analysis.

In all cases of death from violence or suspected murder, before you move the body note its position, as also all marks, scratches, contusions, &c. on it, and commit such notes to paper *at the time* of observation.

All notes should be taken on the spot or directly afterwards, otherwise they are *not* available to refresh your memory.

Confessions of a dying man to be of value must be *purely voluntary*, and care should be taken to note the state of mind of the man confessing.

Deathbed declarations are only of use when the patient is aware that *all hope of recovery* is over. Such declarations should be noted, read over to the patient and assented to by him and, if possible, signed in presence of a witness.

Never meddle with wills if possible, but circumstances may necessitate your committing to paper the wishes of a dying man. In such a case use the *simplest* and *plainest* words and never forget to appoint an executor and residuary legatee, who may be the same person. Such a will should be signed by the *testator* and *two* witnesses at the same time and in *presence of the testator and of each other*. The following short attesting clause may be added in all cases:—

“Testator signed in our presence, we in *his* „  
*her*”

Such a clause or any to that effect might save after trouble and expense. It is also well to bear in mind that no one nor anyone whose husband or wife takes any benefit under any will should be a witness, as such an act would absolutely invalidate the bequest.

In all such cases the medical attendant should note the mental state of the testator and be prepared with notes, taken at the time, of the circumstances under which the will was made, in case of after litigation.



Never examine a female patient simply on the request of the master or mistress, nor under the order of a magistrate or coroner *without* obtaining the consent of the patient. The consent should be given in the presence of a third party who should also be present at the examination, and in all important cases the presence of a second medical man is desirable. *Without the consent* so given the medical attendant is liable to an action being commenced against him even though he acted under any of the above-named orders. The same remarks apply to male cases where examination of the person is necessary. In all cases, male or female, the patients should be warned that the result of the examination may be used as evidence against them.

In signing certificates for the restraint of the insane too much care cannot be exercised in attending to the marginal directions on the form, as certificates, though passed by the Commissioners, may afterwards in consequence of some trivial omission prove illegal when challenged in a court of law.

General expressions, as incoherence, restlessness, obstinacy, refusal to take food, and delusions are not good facts alone on which to sign a certificate. Delusions should be proved to exist and their nature consequently substantiated.

Though the Act of 1889 protects a medical man if he signs a certificate in good faith and with reasonable care, and enacts that he shall not be liable to any criminal or civil proceedings in consequence of such an act, yet Sec. 12 Sub-Sec. 2 states that *if any proceedings are taken* "Such proceedings may, upon application to the High Court of Justice or a Judge thereof, be stayed upon such terms as to costs, &c. as the Court or Judge *may think fit*, if the Court or Judge is satisfied that there is no reasonable grounds for alleging want of good faith or reasonable care."

Hence it is to be borne in mind that the medical man signing a certificate for restraint may even now be put to expense and anxiety, though any proceedings against him *may* finally be stayed upon application to the Court or Judge according to its or his judgment.

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# TABLE OF DOSES OF THE MORE IMPORTANT DRUGS

(OFFICINAL AND NON-OFFICINAL).

NOTE.—The non-official remedies are in Egyptian type, thus—**Adonidin**.

It is assumed that the action and uses of the various remedies are known to the practitioner.

Unless otherwise stated, the adult dose only of each drug is mentioned.

## INTERNAL REMEDIES.

Acetanilidum, or Antifebrine (anti-pyretic) .....	3	to	10	gr.
Acetphenetidine (antipyretic) ....	3	„	8	gr.
Acetum.....	1	dr. to	1	oz.
„ <b>Colchici</b> .....	$\frac{1}{2}$	to	2	dr.
„ <b>Ipecac.</b> .....	5	„	40	min.
„ <b>Opii</b> .....	5	„	30	min.
„ <b>Scillæ</b> .....	15	„	40	min.
Acid. Acet. Dil. ....	1	dr. to	1	oz.
„ <b>Arsenios.</b> .....	$\frac{1}{60}$	to	$\frac{1}{12}$	gr.
„ <b>Benzoic.</b> .....	5	„	15	gr.
„ <b>Boricum</b> .....	5	„	10	gr.
„ <b>Carbolic.</b> (in pill) .....	1	„	3	gr.
„ „ <b>Liquefactum</b> .....	1	„	4	min.
„ <b>Chrysophanic.</b> (used in psoriasis) .....	$\frac{1}{5}$	to	$\frac{1}{2}$	gr. or more
„ <b>Citric.</b> .....	10	to	30	gr.
„ <b>Gallic.</b> .. 2 to 10 gr. (10 to 60 in albuminuria)				
„ <b>Gynocardic.</b> (in leprosy, psoriasis, lupus, eczema, &c.)	$\frac{1}{2}$	to	3	gr.
„ <b>Hydrobromic.</b> Dil.....	10	„	50	min.
„ <b>Hydrochlor.</b> Dil. ....	10	„	30	min.
„ <b>Hydrofluoric.</b> (1 of Gaseous Acid in 6000)—(in goitre) 15 min. gradually increased to 60 or 70 min.				
„ <b>Hydrocyanic.</b> Dil. ....	2	to	8	min.
„ <b>Hydrocyanic.</b> ( <b>Scheele's</b> )	1	„	2	min.
„ <b>Lactic.</b> Dil. (used as a spray in diphtheria, 1 part to 16 of water) .....	$\frac{1}{2}$	„	2	dr.
„ <b>Nitric.</b> Dil. ....	10	„	30	min.
„ <b>Nitro-Hydrochlor.</b> Dil. ....	5	„	20	min.
„ <b>Phosph.</b> Concent. ....	2	„	5	min.
„ „ Dil. ....	10	„	30	min.
„ <b>Salicylic.</b> .....	5	„	30	gr.
„ <b>Sulph.</b> Arom. ....	5	„	30	min.
„ „ Dil. ....	5	„	30	min.
„ <b>Sulphuros.</b> .....	$\frac{1}{2}$	„	1	dr.
„ <b>Tannic.</b> .....	2	„	10	gr.
„ <b>Tartaric.</b> .....	10	„	30	gr.
„ <b>Valerianic.</b> .....	10	„	15	min.



## INTERNAL REMEDIES—continued.

Aconitina, Extract .....	1	to	2	gr.
Aconiti, Tinct. ....	5	„	15	min.
<b>Adonidin</b> (resembles Digitalis) ..	$\frac{1}{100}$	„	$\frac{1}{50}$	gr.
Æther .....	20	„	60	min.
„ Acetic. ....	20	„	60	min.
„ Chloric. ( <i>vide</i> Sp. Chloroformi).				
<b>Agaricin</b> .....	$\frac{1}{12}$	„	$\frac{1}{6}$	gr.
(In small doses astringent; stops night-sweats of phthisis.)				
Aloes, Barbadoes.....	2	to	4	gr.
„ Socotrine .....	2	„	6	gr.
Aloin .....	1	„	2	gr.
Alumen .....	10	„	20	gr.
„ Exsiccatum .....	5	„	10	gr.
Ammoniacum .....	10	„	20	gr.
<b>Ammon. Arsenias</b> .....	$\frac{1}{16}$	„	$\frac{1}{8}$	gr.
Ammon. Benzoas .....	10	„	20	gr.
„ Bromid. ....	2	„	20	gr.
„ <b>Carbazotas</b> .....	$\frac{1}{8}$	„	$\frac{3}{8}$	gr.
„ Carb. (stim. and diaph.) ..	3	„	10	gr.
„ „ (emetic) .....	20	„	30	gr.
„ Chlorid. ....	10	„	15	gr.
„ <b>Hydrosulphuret</b> .....	3	„	6	gr.
„ <b>Hypophosphis</b> .....	5	„	10	gr.
„ <b>Iodid.</b> .....	2	„	10	gr.
„ Phosphas .....	5	„	20	gr.
„ <b>Sulpho-Carbolas</b> .....	10	„	20	gr.
Amyl Nitris .....	2	to	5	min. by inhal.
(In mixtures $\frac{1}{2}$ to 1 min. used cautiously.)				
<b>Anilin. Sulphas</b> .....	$\frac{1}{2}$	to	4	gr.
<b>Antifebrin</b> , 3 to 6 gr., or 15 gr., for two or three consecutive mornings; after this, 2 or 3 gr. daily.				
Antim. Oxid. ....	1	to	4	gr.
„ Sulphurat. ....	1	„	5	gr.
„ Tart. (diaph. and expect.) ..	$\frac{1}{16}$	„	$\frac{1}{8}$	gr.
„ „ (emetic) .....	1	„	2	gr.
<b>Apiol</b> (intermittent fever and amenorrhœa) .....	3	to	6	min. in perles
Apomorphinæ Hydrochloras (emetic) ..	$\frac{1}{15}$	to	$\frac{1}{5}$	gr.
Aq. Camph. ....	1	„	2	oz.
„ Chlorof. ....	$\frac{1}{2}$	„	2	oz.
„ Laurocerasi .....	10	„	30	min.
<b>Areca</b> (in powder) .....	$\frac{1}{2}$	„	$\frac{3}{4}$	oz.
<b>Argenti Bromidum</b> .....	$\frac{1}{4}$	„	$\frac{1}{2}$	gr.
„ <b>Chloridum</b> .....	$\frac{1}{2}$	„	3	gr.
„ <b>Iodidum</b> .....	$\frac{1}{4}$	„	$\frac{1}{2}$	gr.
„ Nitr. (in pill) .....	$\frac{1}{4}$	„	$\frac{1}{3}$	gr.
„ Oxid. „ .....	$\frac{1}{2}$	„	2	gr.
<b>Arsenii Bromid.</b> (in pill) .....	$\frac{1}{12}$	„	$\frac{1}{4}$	gr.
„ <b>Iodid.</b> „ .....	$\frac{1}{30}$	„		gr.
Asafœtida .....	5	to	20	gr.
<b>Asclepidin</b> .....	1	„	5	gr.



INTERNAL REMEDIES—*continued.*

<b>Asparagin</b> (diuretic) .....	1	to	2	gr.
<b>Aspidospermine</b> (asthma) .....	1	„	3	gr.
<b>Atropinæ Salicylas</b> .....	120	„	60	gr.
„ Sulphas .....				
<b>Auri Chlor.</b> (in syph. & cutan. dis.)	20	„	12	gr.
<b>Auri et Sod. Chlor.</b> (in hysteria) ..	12	„	8	gr.
Bals. Copaibæ .....	12	„	1	dr.
„ Peruv. ....	10	„	15	min.
„ Tolutanum .....	10	„	20	gr.
<b>Baptisin</b> (purgative and emetic) ..	1	„	5 gr.	in pill
Bael Indian (astringent) .....	1	„	2	dr.
Berberinæ Sulph. (tonic and febrifuge)	1	„	10	gr.
Bismuthi Carb. ....	5	„	20	gr.
„ Citras .....	2	„	5	gr.
„ et Ammon. Citr. ....	2	„	5	gr.
„ Oxid. ....	5	„	15	gr.
„ Subnitr. ....	5	„	20	gr.
Borax .....	5	„	40	gr.
<b>Brucin</b> .....	12	„	4	gr.
Butyl-Chloral Hydras (in spasmodic asthma, phthisis), 1 to 2 gr., cautiously increased to 5 or 10 gr.				
<b>Caffein</b> (stimulates the heart, and increases arterial tension)	1	to	5	gr.
Caffeinæ Citras .....	2	„	10	gr.
Calc. Carb. Præcip. ....	10	„	60	gr.
„ Chlor. (rarely given) .....	3	„	10	gr.
„ Hypophos. ....	5	„	10	gr.
„ <b>Lactophosphas</b> .....	2	„	4	gr.
„ Phosph. ....	10	„	20	gr.
„ <b>Sulpho-Carbol.</b> .....	5	„	15	gr.
Calumb. Rad. (in powder) .....	5	„	20	gr.
Calx Sulphurata .....	10	„	1	gr.
Cambogia .....	1	„	4	gr.
Camphor .....	1	„	10	gr.
<b>Camphora Monobromata</b> (in chorea, hysteria, &c.)	5	„	8 gr.	in pill
Carbo Animalis Purif. ....	20	„	60	gr.
„ Ligni .....	20	„	60	gr.
<b>Carbonis Bisulphid.</b> .....	12	„	1	min.
Catechu .....	10	„	30	gr.
Cerevisiæ Fermentum .....	12	„	1	oz.
Cerii Oxalas .....	1	„	2	gr.
<b>Chinoline Salicylas</b> { antipyretic }	3	„	10	gr.
„ <b>Tartras</b> { antiseptic }	5	„	15	gr.
Chloral Hyd. ....	5	„	30	gr.
Chloralamid (hypnotic) .....	20	„	50	gr.
Chloroform .....	3	„	10	min.
<b>Chlorodyne</b> (Collis Browne's, Flinders', &c.) .....	10	„	20	min.
Chrysarobinum .....	16	„	12	gr.
<b>Cinchon. Mur.</b> .....	2	„	10	gr.
Cinchonidinæ Sulph. ....	1	„	10	gr.
Cinchoninæ Sulph. ....	1	„	10	gr.



## INTERNAL REMEDIES—continued.

Coca (nerve sedative and stimulant)	$\frac{1}{2}$	to	2	dr.
Cocainæ Hydrochlor. ....	$\frac{1}{5}$	"	1	gr.
Codeina .....	$\frac{1}{4}$	"	2	gr.
Colchici Cormus (in powder) ....	2	"	8	gr.
<b>Colchicin</b> .....	$\frac{1}{32}$	gr.		
Colocynth Pulpa (in powder).....	2	to	8	gr.
Confect. Opii .....	5	"	20	gr.
" Piperis .....	1	"	2	dr.
" Scammonia .....	10	"	30	gr.
(for a child, 3 to 10 gr.)				
" Sennæ .....	1	"	2	dr.
" Sulphur. ....	1	"	2	dr.
" Terebinth.				
(diuretic and hæmostatic)	1	"	2	dr.
<b>Conia</b> .....	$\frac{1}{50}$	"	$\frac{1}{12}$	gr.
Conii Folia (in powder) .....	2	"	8	gr.
<b>Convallamarin</b> (quickens and stimulates the heart).....	$\frac{1}{2}$	"	1	gr.
Copaiba .....	$\frac{1}{2}$	"	1	dr.
<b>Cotoin</b> (diarrhœa, gout, and rheumatism) .....	$\frac{1}{2}$	"	1	gr.
Creasotum .....	1	"	3	drops
Creta Præparata .....	10	"	60	gr.
Cubeba (in powder) .....	$\frac{1}{2}$	"	2	dr.
Cupri Sulph. (astringent and tonic)	$\frac{1}{4}$	"	2	gr.
" " (emetic).....	5 to 10	gr. in solution		
<b>Curara</b> (chorea, hydrophobia, tetanus)			$\frac{1}{10}$	gr.
Cusso .....	$\frac{1}{4}$	to	$\frac{1}{2}$	oz.
Decoc. Aloes Co.....	$\frac{1}{2}$	"	2	oz.
" Cetrariæ .....	1	"	4	oz.
" Cinch. ....	1	"	2	oz.
" Granati Radicis .....	2	"	4	oz.
" Hæmatox. ....	1	"	2	oz.
" Hordei .....	1	"	4	oz.
" Pareiræ .....	1	"	2	oz.
" Quercus (used chiefly as a lotion or injection) .....	1	"	4	oz.
" Sarsæ .....	2	"	10	oz.
" " Comp. ....	2	"	10	oz.
" Scoparii .....	2	"	4	oz.
" Taraxaci .....	2	"	4	oz.
" <b>Tritici Repen.</b> .....	2	"	4	oz.
" <b>Ulm</b> i .....	2	"	4	oz.
Digitalis Folia (in powder) .....	$\frac{1}{2}$	"	$1\frac{1}{2}$	gr.
<b>Digitalinum</b> .....	$\frac{1}{50}$	"	$\frac{1}{20}$	gr.
<b>Duboisia Sulphas</b> (substitute for Atropina) .....	$\frac{1}{120}$	"	$\frac{1}{60}$	gr.
Elaterinum .....	$\frac{1}{40}$	"	$\frac{1}{10}$	gr.
Elaterium .....	$\frac{1}{16}$	"	$\frac{1}{2}$	gr.
<b>Emetine</b> (emetic) .....	$\frac{1}{16}$	gr.		
Ergota .....	20	to	30	gr.
Ergotinum .....	2	"	5	gr.



INTERNAL REMEDIES—*continued.*

<b>Eserine</b> (tetanus, neuralgia, and rheumatism) .....	} $\frac{1}{60}$ to $\frac{1}{20}$ gr.	
„ <b>Salicylas</b> .....		
„ <b>Sulphas</b> .....		
Ess. Anisi .....	10	„ 20 min.
„ Menth. Pip.....	10	„ 20 min.
Eucalypti Gummi .....	2	„ 10 gr.
<b>Euonymin</b> (aper. and hepatic stimulant) .....	$\frac{1}{2}$ to 2 or 3	gr.
Exalgin (for relief of pain).....	2	gr.
Ext. Aconiti .....	$\frac{1}{4}$ to	1 gr.
„ Aloes Barb. ....	2	„ 6 gr.
„ „ Socot. ....	2	„ 6 gr.
„ Anthemid. ....	2	„ 10 gr.
„ Belæ Liquid. ....	1	„ 2 dr.
„ Bellad. ....	$\frac{1}{4}$ „	$\frac{1}{2}$ gr.
„ „ Alcoholic. ....	$\frac{1}{16}$ „	$\frac{1}{4}$ gr.
„ Calumbæ .....	2	„ 10 gr.
„ Cannabis Indicæ .....	$\frac{1}{4}$ „	1 gr.
„ Cascaræ Sagrad. ....	2	„ 8 gr.
„ „ „ Liquid (Parkes and Davis' best) .....	$\frac{1}{2}$ „	2 dr.
„ Cimicifugæ Liquid. ....	3	„ 30 min.
„ Cinchon. Liquid.....	5	„ 10 min.
„ Cocæ Liquid. ....	$\frac{1}{2}$ „	2 dr.
„ Colchici .....	$\frac{1}{2}$ „	2 gr.
„ „ Acet. ....	$\frac{1}{2}$ „	2 gr.
„ Colocynth. Co.....	3	„ 8 gr.
„ Conii .....	2	„ 6 gr.
„ <b>Cotyledon. Umbilic.</b> (in epilepsy) ..	5 to 10	gr.
„ Ergotæ Liquid. ....	10 to	60 min.
„ Eucalypti.....	2	„ 10 gr.
„ Euonymi Siccum .....	1	„ 4 gr.
„ Filicis Liquid.....	30	„ 60 min.
„ <b>Fuci Vesiculosi</b> (in obesity) ..	2	„ 10 gr.
„ Gelsem. Alcohol. ....	$\frac{1}{2}$ „	2 gr.
„ Gentianæ .....	2	„ 10 gr.
„ Glycyrrhizæ .....	5 gr. to	1 dr.
„ „ Liquid.....	$\frac{1}{2}$ to	2 dr.
„ <b>Grindelia Robusta</b> (in asthma) ..	2	„ 3 gr.
„ Hamamelidis Liquidum ....	2	„ 5 min.
„ Hæmatoxyli.....	10	„ 30 gr.
„ Hydrastis Liq. ....	5	„ 30 min.
„ Hyoscy. ....	5	„ 10 gr.
„ Jaborandi .....	2	„ 10 gr.
„ Jalapæ .....	5	„ 15 gr.
„ Krameriæ .....	5	„ 20 gr.
„ Lactucæ .....	5	„ 20 gr.
„ Lupuli .....	5	„ 10 gr.
„ Nucis Vom. ....	$\frac{1}{3}$ „	1 gr.
„ Opii .....	$\frac{1}{2}$ „	1 gr.
„ „ Liquid. ....	10	„ 40 min.



INTERNAL REMEDIES—*continued.*

Ext. Papaver. ....	2	to	5	gr.
„ Pareiræ ....	10	„	30	gr.
„ „ Liquid. ....	$\frac{1}{2}$	„	2	dr.
„ Physostigmatis ....	$\frac{1}{16}$	„	$\frac{1}{4}$	gr.
„ Quassiæ ....	3	„	5	gr.
„ Rhamni Frang. ....	15	„	60	gr.
„ „ „ Liquid. ....	1	„	4	dr.
„ Rhei ....	3	„	6	gr.
„ Sarsæ Liquid. ....	1	„	4	dr.
„ Stramonii ....	$\frac{1}{4}$ gr. cautiously increased to $\frac{1}{2}$ gr.			
„ Tarax. ....	5	to	15	gr.
„ „ Liquid. ....	$\frac{1}{4}$	„	2	dr.
Fel Bovinum Purif. ....	5	„	10	gr.
Ferri Arsen. ....	$\frac{1}{16}$	„	$\frac{1}{2}$	gr.
„ <b>Bromid.</b> ....	2	„	6	gr.
„ Carb. Sacc. ....	5	„	20	gr.
„ et Ammon. Citr. ....	5	„	10	gr.
„ et Quininæ Citr. ....	5	„	10	gr.
„ et Strych. Citr. ....	2	„	5	gr.
„ et Zinci Citr. ....	2	„	5	gr.
„ <b>Hypophos.</b> ....	2	„	10	gr.
„ <b>Iodid.</b> ....	2	„	5	gr.
„ <b>Lactas</b> (in anæmic amenorrhœa) 5	„	„	10	gr.
„ <b>Peptonas</b> (Denaeyer's)* ....	30	„	60	min.
„ Peroxid. Hydrat. ....	5	„	30	gr.
„ Phosph. ....	3	„	10	gr.
„ <b>Pyrophos.</b> ....	5	„	10	gr.
„ <b>Succinas</b> (solvent of gall-stones) 1	dr.			
„ Sulph. ....	1	to	5	gr.
„ „ Exsiccata ....	$\frac{1}{2}$	„	3	gr.
„ <b>Sulphocarbolas</b> ....	5	„	20	gr.
„ <b>Tannas</b> ....	5	„	10	gr.
„ <b>Valer.</b> (in hysteria with chlorosis) ....	$\frac{1}{2}$	„	2	gr.
Ferrum Redactum ....	1	„	5	gr.
„ Tartaratum ....	5	„	10	gr.
<b>Fuschine</b> (albuminuria) ....	$\frac{1}{2}$	„	4	gr.
Gelsemium ....	5	„	30	gr.
<b>Geranin</b> (astringent) ....	3	„	8	gr.
Glusidum (Saccharin) ....				
Glycerinum ....	1	„	2	dr.
„ Acid. Carbol. ....	5	„	10	min.
„ „ Gallici ....	10	„	40	min.
„ „ Tannici ....	10	„	40	min.
Guaiaci Resina ....	10	„	30	gr.
<b>Guarana</b> (in powder, for sick headache) ....	30	gr.		
<b>Homatropin</b> (sweats of phthisis) ..	$\frac{1}{20}$	to	$\frac{1}{30}$	gr.
Homatropinæ Hydrobromas ....	$\frac{1}{80}$	„	$\frac{1}{20}$	gr.
„ <b>Sulphas</b> (sweats of phthisis) ..	$\frac{1}{20}$	„	$\frac{1}{30}$	gr.
<b>Hydrargyri Cyanid.</b> ....	$\frac{1}{16}$	„	$\frac{1}{8}$	gr.



INTERNAL REMEDIES—*continued.*

Hydrargyri Iodid. Rub. ....	$\frac{1}{32}$	to	$\frac{1}{8}$	gr.
„ Iodid. Vir. ....	1	„	3	gr.
„ Perchlor. ....	$\frac{1}{16}$	„	$\frac{1}{8}$	gr.
„ Subchlor. (alterative) ..	$\frac{1}{2}$	„	2	gr.
„ „ (purgative) ..	3	„	8	gr.
Hydrargyrum c. Cretâ ....	3	„	8	gr.
<b>Hydrastin</b> (liver stimulant) ....	1	„	5	gr.
<b>Hydrogen Peroxide</b> (Æther)				
(whooping cough, diabetes)	30	„	60	min.
Hyoscine Hydrobromas (1 in 200)				
(powerful cerebral sedative) ....	$\frac{1}{300}$	„	$\frac{1}{100}$	gr.
<b>Hyoscyamine Sulphate</b> ....	$\frac{1}{60}$	„	$\frac{1}{8}$	gr.
Infus. Anthemidis ....	1	„	4	oz.
„ Buchu ....	1	„	4	oz.
„ Caryophylli ....	1	„	4	oz.
„ Cusso ....	4	„	8	oz.
„ Digital. ....	2	„	4	dr.
„ Lini ....	2 to 4	oz. or <i>ad lib.</i>		
„ Maticæ ....	1 to 4	oz.		
With the exception of the above, the dose of all the officinal infusions is from 1 to 2 oz.				
Injec. Apomorphinæ Hypoderm. 2 to 8 min.)				
„ Ergotini Hypodermica ..3,, 10 min.)				
„ Morphinæ Hypodermica..1,, 5 min.)				
} subcutaneously				
<b>Ingluvin</b> (vomiting in pregnancy)	5	to	10	gr.
Iodoform. (alterative) ....	$\frac{1}{2}$	„	3	gr.
Ipecacuanha (expectorant) ....	$\frac{1}{2}$	„	2	gr.
„ (emetic).....	15	„	30	gr.
<b>Iridin</b> (alt. in scrof. and syph.) ..	$\frac{1}{2}$	„	3	gr.
Iso Butyl Nitris, 3 to 5 min. by inhalation.				
Jaborandi (diaphoretic & sialogogue)	5	to	60	gr.
Jalapa (in powder) ....	10	„	30	gr.
<b>Jalapine</b> ....	2	„	5	gr.
Jalapæ Resina ....	2	„	5	gr.
Kairine (antipyretic) ....	5	„	15	gr.
Kamala ....	$\frac{1}{2}$	„	2	dr.
Kino (in Powder) ....	10	„	30	gr.
<b>Lactucarium</b> (anodyne) ....	3	to	8	gr. or more
<b>Leptandrin</b> (hepat. stim. and tonic in dysent., &c.) ....	2	to	4	gr.
Liq. Ammoniaë ....	10	„	20	min.
„ Ammon. Acet. ....	2	„	6	dr.
„ „ „ Fortior.....	20	„	60	min.
„ „ Citr. ....	2	„	6	dr.
„ „ „ Fortior.....	1	„	1 $\frac{1}{2}$	dr.
„ Arsenicalis ....	2	„	8	min.
„ Arsenici Hydrochlor. ....	2	„	8	min.
„ Arsenii et Hydrarg. Iodid.....	10	„	30	min.
„ Atropinæ Sulph. ....	1	„	4	min.
„ Belæ (astringent) ....	1	„	2	dr.
„ Bismuthi et Ammon. Citr.....	$\frac{1}{2}$	„	1	dr.
„ Calcii Chloridi ....	15	„	50	min.



## INTERNAL REMEDIES—continued.

Liq. Calcis.....	1 to 4 oz. (infants 1 to 4 dr.)	in milk
„ „ Chlorinatae .....	20 to 40	min.
„ „ Iodinatae .....	5 „ 20	min.
„ „ Sacchar. ....	15 „ 60	min.
„ Chlorig .....	10 „ 20	min.
„ Cocainæ Hydrochloratis.....	2 „ 10	min.
„ Ferri Acet. ....	5 „ 30	min.
„ „ „ Fort. ....	1 „ 8	min.
„ „ Dialysat. ....	10 „ 30	min.
„ „ Perchlor. ....	10 „ 30	min.
„ „ Pernitr. ....	10 „ 40	min.
„ Hydr. Perchlor. ....	$\frac{1}{2}$ „ 2	dr.
„ Lithiæ Efferves. ....	5 „ 10	oz.
„ Magnes. Carb.....	1 „ 2	oz.
„ Morphinæ Acet. ....	10 „ 60	min.
„ „ Bimecon. ....	5 „ 40	min.
„ „ Hydrochlor. ....	10 „ 60	min.
„ „ Sulphatis .....	10 „ 60	min.
„ <b>Opii Sed.</b> .....	10 „ 20	min.
„ Potassæ .....	15 „ 60	min.
„ „ Permang. ....	2 „ 4	dr.
„ Sodæ .....	15 „ 60	min.
„ „ Chlorinatae .....	10 „ 20	min.
„ Sodii Arseniatis .....	5 „ 10	min.
„ Strychninæ Hydrochlor.		
5 min. cautiously increased to	8 or 10	min.
„ Trinitrinæ (Nitro-Glycerine) ..	$\frac{1}{2}$ to 2	min.
Lithii Benzoat. ....	10 „ 30	gr.
„ Carb.....	3 „ 6	gr.
„ Citras .....	5 „ 10	gr.
„ Guaicas.....	5 gr.	
„ <b>Iodid.</b> .....	2 to 5	gr.
Lupulinum ... ..	2 „ 5	gr.
Magnes. Levis and Magnes. Pond.	10 „ 60	gr.
„ Carb. Levis .....	10 „ 60	gr.
„ „ Ponderosa .....	10 „ 60	gr.
„ „ Sulph. ....	60 gr. to $\frac{1}{2}$ oz.	
„ „ Sulph. Efferves. ....	2 to 4	dr.
Manna .....	60 gr. to 1	oz.
Menthol .....	$\frac{1}{2}$ to 2	gr.
Metaldehyde (hypnotic) .....	2 „ 8	gr.
Misturæ. The medium dose of all the officinal mixtures is 1 oz.		
Morphinæ Acet. ....	$\frac{1}{8}$ to $\frac{1}{2}$	gr.
„ <b>Bimeconas</b> .....	$\frac{1}{8}$ „ $\frac{1}{2}$	gr.
„ Hydrochlor. ....	$\frac{1}{8}$ „ $\frac{1}{2}$	gr.
„ Sulphas .....	$\frac{1}{8}$ „ $\frac{1}{2}$	gr.
<b>Muscarine Nitras</b> .....	$\frac{1}{3}$ gr.	
Moschus .....	5 to 10	gr.
<b>Naphthaline</b> .....	1 „ 5	gr.
<b>Narcotine</b> (tonic) .....	1 „ 3	gr.
„ (febrifuge and diaphoretic)	5 „ 20	gr.
Nitro-Glycerini Tabellæ.....	1 „ 2	tablets



## INTERNAL REMEDIES—continued.

Oleo-Resina Cubebæ .....	5	to	30	min.
Ol. Copaibæ .....	5	„	20	min.
„ Crotonis .....	$\frac{1}{3}$	„	1	min.
„ Cubebæ .....	5	„	20	min.
„ Gynocardia (skin affections, phthisis)	3 to 10 min. in milk			
„ Menth. Pip. and the other aromatic essential oils.....	1	to	4	min.
„ Morrhua .....	1	„	8	dr.
„ Phosphoratum .....	5	„	10	min.
„ Ricini .....	1	„	8	dr.
„ Santali .....	10	„	30	min.
„ Terebinth. (diur. and hæmos.) ..	10	„	20	min.
„ „ (anthelmintic) ....	2	„	4	dr.
Orexine (stomachic) .....	3	„	8	gr.
<b>Oxymel</b> .....	1	„	2	dr.
„ Scilla .....	$\frac{1}{2}$	„	1	dr.
Papain—(for dyspepsia) .....	$1\frac{1}{2}$	„	5	gr.
Para-Acetphenetidine, or Phenacetine (antipyretic).....	8	„	12	gr.
<b>Paraldehyde</b> (slows but strengthens the heart's action) .....	$\frac{1}{2}$	„	$1\frac{1}{2}$	dr.
Pepsine .....	3	„	5	gr.
Phenacetine (antipyretic) .....	5	„	10	gr.
Phenazonum (Antipyrin) .....	3	„	20	gr.
Physostigmatis Semen (in powder)	1	„	4	gr.
Phosphorus .....	$\frac{1}{40}$	„	$\frac{1}{2}$	gr.
<b>Phytolaccin</b> (alterative) .....	1	„	5	gr.
<b>Picrotoxin</b> (chorea, epilepsy, night sweats of phthisis) .....	$\frac{1}{100}$	„	$\frac{1}{30}$	gr.
Pilocarpin. Nitras .....	$\frac{1}{20}$	„	$\frac{1}{2}$	gr.
Pil. Ferri (Blaud) .....	1	„	4	gr.
„ „ Carb. ....	5	„	20	gr.
„ „ Iod. ....	4	„	8	gr.
„ Hydrarg. (alterative) .....	3	„	8	gr.
„ Phosphori .....	2	„	4	gr.
„ Plumbi c. Opio .....	3	„	5	gr.
„ Saponis Co. ....	3	„	5	gr.
The dose of the remaining officinal pills is from 5 to 10 or 15 gr.				
<b>Platini Perchlor.</b> (alterat. in syph.) ..	$\frac{1}{10}$	to	$\frac{1}{4}$	gr.
Plumbi Acet. ....	1	„	4	gr.
„ Iodid. ....	$\frac{1}{2}$	„	2	gr.
Podophylli Res. (alterat. cholagogue)	$\frac{1}{6}$	„	$\frac{1}{2}$	gr.
„ „ (purgative).....	$\frac{1}{2}$	„	1	gr.
Potassii Acet. ....	10	„	60	gr.
„ Bicarb. ....	10	„	40	gr.
„ Bromid. ....	5	„	30	gr.
„ Carb. ....	10	„	30	gr.
„ Chlor. ....	10	„	30	gr.
„ Citr. ....	20	„	60	gr.
„ Iodid. ....	2	„	20	gr.



INTERNAL REMEDIES—*continued.*

Potassii Nitr. ....	10	to	30	gr.
„ Permangan. ....	1	„	5	gr.
„ Sulphas ....	15	„	60	gr.
„ <b>Sulpho-Carbolas</b> ....	5	„	15	gr.
„ Tart. (diuretic) ....	20	„	60	gr.
„ „ (purgative) ....	1	„	4	dr.
„ „ Acida ....	20	„	60	gr.
<b>Propylamine</b> (see Trimethylamine).				
Pulv. Antimonialis ....	2	„	6	gr.
„ Catechu Co. ....	20	„	40	gr.
„ Cinnam. Co. ....	3	„	10	gr.
„ Cretæ Arom. ....	10	„	60	gr.
„ „ „ c. Opio ....	10	„	40	gr.
„ Elaterini Co. ....	$\frac{1}{2}$	„	5	gr.
„ Glycyrrhizæ Co. ....	30	„	60	gr.
„ Ipecac. Co. ....	5	„	10	gr.
„ Jalapæ Co. ....	20	„	60	gr.
„ Kino Co. ....	5	„	20	gr.
„ Opii ....	$\frac{1}{2}$	„	2	gr.
„ „ Co. ....	2	„	5	gr.
„ Rhei Co. ....	20	„	60	gr.
„ Scammon. Co. ....	2 to 5	gr. for child		
„ „ „ ....	10 to 20	gr. (adult)		
„ Tragac. Co. ....	30	to	60	min.
Quininæ Hydrochlor. ....	1	„	10	gr.
„ Iodid. ....	1	„	2	gr.
„ Phosph. ....	1	„	5	gr.
„ Sulph. ....	1	„	10	gr.
<b>Quinquinine</b> (tonic) ....	2	„	4	gr.
„ (antiperiodic) ....	5	„	20	gr.
Resorcin (antipyretic) ....	5	„	15	gr.
Rhei Rad. (in powder) ....	5	„	20	gr.
<b>Rhus Toxicodendron</b>				
(in paralysis and chr. rheum.)	$\frac{1}{2}$	gr.		
<b>Rumicin</b> (astringent, tonic, and anti-scorbutic) ....	1	to	4	gr.
Sabinæ Cacumina (in powder) ....	4	„	10	gr.
<b>Saccharine</b> (used for sweetening food in diabetes).				
Salicinum (tonic) ....	2	„	5	gr.
„ (febrifuge) ....	5	„	20	gr.
<b>Salol</b> (antipyretic, antiseptic, and antirheumatic) ....				
	30	gr.		
Santonica ....	10	to	60	gr.
Santoninum ....	2	„	6	gr.
Scammoniæ Resina ....	3	„	8	gr.
Scammonium ....	5	„	10	gr.
Scilla (in powder) ....	1	„	3	gr.
Soda Tartarata ....	$\frac{1}{4}$	„	$\frac{1}{2}$	oz.
Sodii Arsenias ....	$\frac{1}{16}$	„	$\frac{1}{8}$	gr.
„ Benzoas ....	10	„	30	gr.
„ Bicarb. ....	10	„	60	gr.



## INTERNAL REMEDIES--continued.

Sodii Bromid. ....	10	to	30	gr.
" Carb. ....	5	"	30	gr.
" " Exsiccata.....	3	"	10	gr.
" Citro-Tart. Efferves.....	60	gr. to	$\frac{1}{4}$	oz.
" Hypophos. ....	3	to	8	gr.
" <b>Hyposulph.</b> ....	10	"	60	gr.
" Iodid. ....	5	"	10	gr.
" Phosphas ....	$\frac{1}{2}$	"	1	oz.
" " Efferves. ....	2	"	4	dr.
" Nitris ....	2	"	5	gr.
" Salicylas ....	10	"	30	gr.
" Sulphas ....	$\frac{1}{4}$	"	1	oz.
" " Efferves. ....	2	"	4	dr.
" Sulphis ....	5	"	20	gr.
" Sulpho-Carbol. ....	5	"	15	gr.
" Valer. ....	1	"	5	gr.
Solutio Æthyl Nitritis, 20 to 80 min. added to water immediately before administration.				
Solutio Quininæ Salicylat. ....	$1\frac{1}{2}$	to	3	dr.
Somnal (hypnotic) ....	30	"	45	min.
Sparteïn Sulphas (cardiac stimulant and diuretic) ....	1	"	2	gr.
Sp. Ætheris ....	30	"	90	dr.
" " Co. ....	$\frac{1}{2}$	"	2	dr.
" " Nitrosi ....	$\frac{1}{2}$	"	2	dr.
" Ammon. Arom. ....	30	"	60	min.
" " Fœtid. ....	30	"	60	min.
" Armoraciæ Co. ....	1	"	2	dr.
" Cajuputi ....	$\frac{1}{2}$	"	1	dr.
" Camphoræ ....	10	"	30	min.
" Chloroformi ....	20	"	60	min.
" Cinnamomi ....	$\frac{1}{2}$	"	1	dr.
" Juniper. ....				
" Lavand. ....				
" Menth. Pip. ....				
" Myristicæ ....				
" Rosmarini ....				
<b>Stanni Chlorid.</b>				
(in epilepsy and chorea)	$\frac{1}{10}$	"	$\frac{1}{2}$	gr.
Strychnina ....	$\frac{1}{30}$	"	$\frac{1}{12}$	gr.
Succus Bellad. ....	5	"	15	min.
" Conii ....	$\frac{1}{2}$	"	1	dr.
" Hyoscyami ....	$\frac{1}{2}$	"	1	dr.
" <b>Rhamni</b> ....	2	"	4	dr.
" Scoparii ....	1	"	2	dr.
" Taraxaci ....	$\frac{1}{2}$	"	2	dr.
Sulphonal (hypnotic) ....	15	"	40	gr.
Sulphur. Præcip. ....	20	"	60	gr.
" Sublimatum ....	20	"	60	gr.
Syr. Aurantii ....	1	dr.		
" " Flores ....	1	dr.		
" <b>Calcis Lactophosphas</b> ....	1	to	2	dr.



INTERNAL REMEDIES—*continued.*

Syr. Chloral	.....	$\frac{1}{2}$	to	2	dr.
„ Ferri Iod.	.....	$\frac{1}{2}$	„	1	dr.
„ „ Lactophosph.	.....	$\frac{1}{2}$	„	1	dr.
„ „ Phos.	.....	1			dr.
„ „ <b>Phos. Co.</b>	.....	$\frac{1}{2}$	to	1	dr. for children
„ „ Subchlor.	.....	$\frac{1}{2}$	to	1	dr.
„ „ et Quin. Hydrob. (Fletcher's)	.....	$\frac{1}{2}$	„	1	dr.
„ Hemidesmi	.....	1			dr.
„ Limonis	.....	1			dr.
„ Mori	.....	1			dr.
„ Papav.	.....	5	to	20	min. (child)
„ „	.....	1			dr. (adult)
„ Rhei	.....	1	to	4	dr.
„ Rhœados	.....	1			dr.
„ Rosæ Gallicæ	.....	1			dr.
„ Scillæ	.....	$\frac{1}{2}$	to	1	dr.
„ Sennæ	.....	1	„	4	dr.
„ Tolu	.....	1			dr.
„ Zingib.	.....	1			dr.
Terebinth. Canaden.	.....	20	to	30	gr.
Tretonal (hypnotic)	.....	10	„	20	gr.
<b>Thallin</b> (antipyretic)	.....	1	„	3	gr.
Thymol	.....	$\frac{1}{2}$	„	2	gr.
Tinct. Aconiti	.....	5	„	15	min.
„ Aloes	.....	1	„	2	dr.
„ Asafoetidæ	.....	$\frac{1}{2}$	„	1	dr.
„ Arnicæ	.....	30	„	60	min.
„ Aurantii	.....	1	„	2	dr.
„ „ Recentis	.....	1	„	2	dr.
„ Bellad.	.....	5	„	20	min.
„ Benzoini Co.	.....	$\frac{1}{2}$	„	1	dr.
„ Buchu	.....	1	„	2	dr.
„ Calumbæ	.....	$\frac{1}{2}$	„	2	dr.
„ Camph. Co.	.....	15	min. to	1	dr.
„ Cannabis Ind.	.....	5	to	20	min.
„ Canthar d.	.....	5	„	20	min.
„ Capsici	.....	10	„	20	min.
„ Cardam. Co.	.....	$\frac{1}{2}$	„	2	dr.
„ Cascarill.	.....	$\frac{1}{2}$	„	2	dr.
„ Catechu	.....	$\frac{1}{2}$	„	2	dr.
„ Chirataë	.....	$\frac{1}{2}$	„	2	dr.
„ Chlorof. Co.	.....	20	„	60	min.
„ „ et Morph.	.....	5	„	10	min.
(Substitute for Chlorodyne.)					
„ Cimicifugæ	.....	15	„	60	min.
„ Cinchon.	.....	$\frac{1}{2}$	„	2	dr.
„ „ Co.	.....	$\frac{1}{2}$	„	2	dr.
„ Cinnamomi	.....	$\frac{1}{2}$	„	2	dr.
„ Colch. Sem.	.....	10	„	30	min.
„ Conii	.....	20	„	60	min.
„ Convallariæ (cardiac. stim.)	.....	20	„	30	min.
„ Cubebæ	.....	$\frac{1}{2}$	„	2	dr.



INTERNAL REMEDIES—*continued.*

Tinct.	Digital.	10	to	30	min.
"	Ergotæ	5	"	30	min.
"	<b>Eucalypt. Globul.</b>	1	"	2	dr.
"	Ferri Acet.	5	"	30	min.
"	" <b>Ammon. Chlor.</b>	10	"	30	min.
"	" Perchlor.	10	"	30	min.
"	Gallæ	$\frac{1}{2}$	"	2	dr.
"	Gelsem.	5	"	20	min.
"	Gent. Co.	$\frac{1}{2}$	"	2	dr.
"	Guaiaci Ammon.	$\frac{1}{2}$	"	1	dr.
"	<b>Guaranæ</b> (nerv. stim.)	$\frac{1}{2}$	"	1	dr.
"	Hamamelidis (astrin. & diur.)	5	"	60	min.
"	Hydrastis	20	"	60	min.
"	Hyoscy.	30	"	60	min.
"	Iodi	5	"	20	min.
"	Jaborandi	$\frac{1}{2}$	"	1	dr.
"	Jalapæ	$\frac{1}{2}$	"	2	dr.
"	Kino	$\frac{1}{2}$	"	2	dr.
"	Krameriaë	$\frac{1}{2}$	"	2	dr.
"	<b>Lactucarii</b> (anodyne)	30	"	60	min.
"	Laricis	20	"	30	min.
"	Lavand. Co.	$\frac{1}{2}$	"	2	dr.
"	Limonis	$\frac{1}{2}$	"	2	dr.
"	Lobeliaë	10	"	30	min.
"	" <b>Æther.</b>	10	"	30	min.
"	Lupuli	$\frac{1}{2}$	"	2	dr.
"	Myrrhæ	$\frac{1}{2}$	"	1	dr.
"	Nucis Vom.	10	"	20	min.
"	Opii	5	"	40	min.
"	" Ammon.	$\frac{1}{2}$	"	1	dr.
"	Podophylli	15 min.	to	1	dr.
"	<b>Pruni Virgini.</b> (in atonic dyspep.)	$\frac{1}{2}$	to	1	dr.
"	Quassiaë	$\frac{1}{2}$	to	2	dr.
"	Quininæ	$\frac{1}{2}$	"	2	dr.
"	" Ammoniata	$\frac{1}{2}$	"	2	dr.
"	Rhei (stomachic)	1	"	2	dr.
"	" (purgative)	$\frac{1}{2}$	"	1	oz.
"	Sabinaë	20	"	60	min.
"	Scillaë	10	"	30	min.
"	Senegæ	$\frac{1}{2}$	"	2	dr.
"	Sennæ	1	"	4	dr.
"	Serpentariaë	$\frac{1}{2}$	"	2	dr.
"	Stramonii	10	"	30	min.
"	Strophanthi (1 in 20)	2 to 10 min.	cardiac tonic		
"	Sumbul	10	to	30	min.
"	Tolu	20	"	40	min.
"	Valer.	1	"	2	dr.
"	" Ammon.	$\frac{1}{2}$	"	1	dr.
"	Verat. Virid.	5	"	20	min.
"	Zingiberis	15 min.	to	1	dr.
"	Zingib. Fort.	5	to	20	min.
	<b>Trimethylamine</b> (in rheumatism)	20	"	60	min.



INTERNAL REMEDIES—*continued.*

Troch. Acid. Benzoic .....	1	to	5	lozgs.
„ „ Tannici .....	1	„	6	lozgs.
„ Bismuthi .....	1	„	6	lozgs.
„ Catechu .....	1	„	6	lozgs.
„ Ferri Redacti .....	1	„	6	lozgs.
„ Ipecac .....	1	„	3	lozgs.
„ Morph. ....	1	„	6	lozgs.
„ „ et Ipecac. ....	1	„	6	lozgs.
„ Opii .....	1	„	6	lozgs.
„ Potass. Chlor. ....	1	„	6	lozgs.
„ Santonini.....	1	„	6	lozgs.
„ Sodii Bicarb. ....	1	„	6	lozgs.
„ Sulphuris .....	1	„	6	lozgs.
Ural (hypnotic) .....	15	„	45	gr.
Urethane(cerebral sedative, hypnotic)	15	„	60	gr.
Valer. Rhizoma (in powder) .....	10	„	30	gr.
Veratrina .....	$\frac{1}{80}$ to $\frac{1}{16}$	gr. (rarely given internally)		
Vin. Aloes .....	1	to	2	dr.
„ Antimoniale.....	5	„	60	min.
„ Colchici .....	10	„	30	min.
„ Ferri .....	1	„	4	dr.
„ „ Citr. ....	1	„	4	dr.
„ Ipecac. (diaphor. and expect.)	5	„	40	min.
„ „ (emetic for children)	$\frac{1}{2}$	„	2	dr.
„ „ ( „ „ adults)	$\frac{3}{4}$	„	6	dr.
„ Opii .....	10	„	40	min.
„ <b>Pepsinæ</b> .....	1	„	2	dr.
„ Quininæ .....	$\frac{1}{2}$	„	1	oz.
„ Rhei .....	1	„	2	dr.
Zinci Acetas (tonic) .....	1	„	2	gr.
„ „ (emetic) .....	10	„	20	gr.
„ <b>Lactas</b> (in epilepsy).....	2	„	10	gr.
„ Oxidum .....	2	„	10	gr.
„ Sulph. (tonic) .....	1	„	3	gr.
„ „ (emetic) .....	10	„	30	gr.
„ Valer. ....	1	„	3	gr.

### ADDITIONS TO THE BRITISH PHARMACOPŒIA 1890.

Acetanilidum (Antefebrein) .....	3	to	10	gr.
Acetum Ipecacuanhæ .....	5	„	40	min.
Eucalypti Gummi .....	2	„	10	gr.
Extractum Euonymi Siccum ....	1	„	4	gr.
„ Hamamelidis Liquidum	2	„	5	min.
„ Hydrastis Liquidum ..	5	„	30	min.
Glusidum (Saccharin).....				
Homatropinæ Hydrobromas .....	$\frac{1}{80}$	„	$\frac{1}{20}$	gr.
Liquor Cocainæ Hydrochloratis ..	2	„	10	min.
„ Morphinæ Sulphatis .....	10	„	60	min.
„ Trinitrinæ (Nitro-Glycerine)	$\frac{1}{2}$	„	2	min.



Magnesii Sulphas Effervescens . . . .	2	dr. to $\frac{1}{2}$	oz.
Mistura Olei Ricini . . . . .	$\frac{1}{2}$	to 2	oz.
Paraldehydum . . . . .	$\frac{1}{2}$	„ 1 $\frac{1}{2}$	dr.
Phenacetinum . . . . .	5	„ 10	gr.
Phenazonum (Antipyrin) . . . . .	3	„ 20	gr.
Picrotoxinum . . . . .	$\frac{1}{100}$	„ $\frac{3}{8}$	gr.
Pilula Ferri (Blaud's) . . . . .	1	„ 4	pills
Pulvis Sodæ Tartaratæ Effervescens			
Sodii Benzoas . . . . .	10	„ 30	gr.
Sodii Nitris . . . . .	2	„ 5	gr.
„ Phosphas Effervescens . . . .	2	„ 4	dr.
„ Sulphas Effervescens . . . . .	2	„ 4	dr.
Sulphonal . . . . .	15	„ 40	gr.
Syrupus Ferri Subchloridi . . . . .	$\frac{1}{2}$	„ 1	dr.
Tinctura Hamamelidis . . . . .	5	„ 60	min.
„ Hydrastis . . . . .	20	„ 60	min.
„ Strophanthi . . . . .	2	„ 10	min.
Trochisci Sulphuris . . . . .	1	„ 6	lozgs.
Adeps Lanæ Hydrosus (Lanoline).			
Oleum Cadinum (Juniper Tar Oil).			
Suppositoria Glycerini . . . . .			
Unguentum Conii . . . . .			
„ Hamamelidis . . . . .			

BRITISH PHARMACEUTICAL CONFERENCE  
UNOFFICIAL FORMULARY.

1888.

Elixir Guaranæ B.P.C. . . . .	$\frac{1}{2}$	to 2	dr.
Ext. Grindeliæ Liquid. B.P.C. . . . .	10	„ 30	min.
Tinct. Bryoniæ B.P.C. . . . .	1	„ 10	min.
„ Convallariæ B.P.C. . . . .	5	„ 20	min.
„ Coto B.P.C. . . . .	10	„ 30	min.
„ Erythrophlœi B.P.C. . . . .	5	„ 10	min.
„ Euphorbiæ Piluliferæ B.P.C. . . . .	10	„ 30	min.
„ Pruni Virginianæ B.P.C. . . . .	20	min. to 1	dr.
„ Quillaia B.P.C. . . . .			

Other preparations for which formulæ are given are:—

Chloral c. Camphorâ B.P.C. . . . .	equal parts
Elixir Cascaræ Sagradæ B.P.C. . . . .	15 min. to 2 dr.
„ Simplex B.P.C. . . . .	20 min. to 1 dr.
Emulsio Olei Morrhuæ B.P.C. . . . .	2 dr. to 1 oz.
Injectio Curare Hypodermica B.P.C. . . . .	1 to 6 min.
(strength 5 gr. in 1 dr.)	
Linimentum Opii Ammoniatum	
B.P.C. (Lin. Saponis, Lin. Camphoræ Co., Tinct. Opii, āā 6 ozs.;	
Lin. Belladonnæ, Sol. Ammonia	
Fort. āā 1 oz.)	



Liq. Ferri Hypophosphitis Comp.			
B.P.C. ....	$\frac{1}{2}$	to	2 dr.
Liq. Picis Carbonis B.P.C. (Prepared Coal Tar 4 ozs., digested with Tinc- ture of Quillaia 1 pint).			
Pix Carbonis Liquida Præparata B.P.C.			
Syrupus Apomorphinæ Hydrochloratis			
B.P.C. (strength, $\frac{1}{32}$ of a gr. in 1 dr.)	$\frac{1}{2}$	to	1 dr.
Syrupus Butyl Chloral B.P.C. ....	1	„	4 dr.
(strength, 2 gr. in 1 dr.)			
Syrupus Calcii, Manganis et Potassii			
Hypophosphitum B.P.C. ....	$\frac{1}{2}$	„	1 dr.
Syrupus Cascaræ Sagradæ B.P.C.	1	„	4 dr.
„ Ferri Hypophosphitis B.P.C.	$\frac{1}{2}$	„	2 dr.
„ „ Phosphatis Comp. B.P.C.	$\frac{1}{2}$	„	2 dr.
„ „ Quininæ, et Strychninæ			
Phosphatum B.P.C. ....	$\frac{1}{2}$	„	1 dr.
Syrupus Hypophosphitus Compositus			
B.P.C. ....	$\frac{1}{2}$	„	2 dr.
Tinctura Benzoini Simplex B.P.C.			
„ Carminativa B.P.C. ....			
„ Ergotæ Ammoniata B.P.C.	10 min.	to	1 dr.
„ Eucalypti B.P.C. ....	15 min.	to	2 dr.
„ Iodi Decolorata B.P.C. ..			

It is suggested by the Committee that in prescribing any of these preparations the letters "B.P.C." should be added.

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## BRITISH PHARMACEUTICAL CONFERENCE UNOFFICIAL FORMULARY.

1889.

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Acidum Hydrocyanicum (Scheele's)	1	to	4 min.
„ Hypophosphorosum .....	2	„	5 min.
Elixir Sennæ .....	1	„	3 dr.
Extractum Hæmatoxyli Liquidum..	$\frac{1}{2}$	„	2 dr.
Syrupus Calcis Hypophosphitis....	1	„	4 dr.
„ Sodii „ ....	1	„	4 dr.
Chloroformum Aconiti .....			
„ Belladonnæ .....			
„ Camphoratum ....			

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## HYPODERMIC REMEDIES.

**Aconitia** (in neuralgia),  $\frac{1}{400}$  to  $\frac{1}{200}$  of a grain. The solution to be made so that 10 min. = the 200th part of a grain of aconitia.

**Atropia**,  $\frac{1}{100}$  to  $\frac{1}{30}$  of a grain. The solution of the sulphate (P.B.) is generally used, of which 2 min. =  $\frac{1}{60}$  of a grain of the alkaloid.

**Apomorphina**,  $\frac{1}{24}$  to  $\frac{1}{8}$  gr. as a prompt emetic in cases of poisoning. The dose of the officinal solution is 2 to 8 min.

**Caffeina**, in solution,  $\frac{1}{4}$  to 1 gr.

**Cocain** (10 % solution), 1 to 2 min.

**Curara** (in tetanus and hydrophobia),  $\frac{1}{20}$  to  $\frac{1}{10}$  gr.

**Ergotine** (in menorrhagia and hæmoptysis), 1 to 3 grains. The dose of the officinal solution is 3 to 10 min. Should be injected into the substance of a muscle such as the deltoid. The liquid extract of ergot may be used subcutaneously in 5 to 10 minim doses.

**Ergotinine** (anti-hæmorrhagic),  $\frac{1}{200}$  to  $\frac{1}{40}$  gr. hypodermically.

**Ergotin Citras** (anti-hæmorrhagic),  $\frac{1}{150}$  to  $\frac{1}{30}$  gr. hypodermically.

**Hydrastrinin Hydrochloras** (anti-hæmorrhagic)  $\frac{1}{2}$  to  $1\frac{1}{2}$  gr.

**Hyoscine Hydrobromas** (1 in 20), powerful cerebral sedative,  $\frac{1}{200}$  to  $\frac{1}{150}$  gr.

**Morphine**,  $\frac{1}{10}$  to  $\frac{1}{2}$  gr. Ten minims of the officinal *Injectio Morphine Hypodermica* contain one grain of the alkaloid.

**Physostigma** (in tetanus and as antidote to strychnia),  $\frac{1}{4}$  to  $\frac{1}{2}$  gr. of the extract dissolved in water.

**Physostigmina** (Eserine),  $\frac{1}{40}$  to  $\frac{1}{30}$  gr.

**Pilocarpina** (Jaborandi),  $\frac{1}{20}$  to  $\frac{1}{2}$  gr. in aqueous solution.

**Strychnine** (in gastralgia and cardialgia),  $\frac{1}{120}$  gr.; (in paralysis),  $\frac{1}{60}$  to  $\frac{1}{30}$  gr. cautiously increased in certain cases to  $\frac{1}{20}$  gr. The officinal solution may be used in 1 to  $2\frac{1}{2}$  min. doses.

## INHALATION REMEDIES.

**Acid. Carbolic.** 2 to 10 gr. In phthisis.

„ **Hydrocyanic.** 10 to 15 min. In spasmodic asthma, spasm of glottis, and irritability of laryngeal passages.

„ **Lactic.** 10 to 30 min. Used in croup and diphtheria. Said to dissolve the false membrane.

„ **Tannic.** 2 to 10 gr. In œdema of glottis, ulcer of larynx, and chronic catarrhal affections.



- Aluminis Sulph. 5 to 30 gr. or more. In hæmoptysis and profuse bronchial secretion.
- Ammon. Chlorid. 2 to 10 gr. To promote expectoration in chronic catarrh and capillary bronchitis.
- Cannabis Indica. 10 to 15 min. of the tincture in spasmodic cough, phthisis, and sore throat.
- Chlorine (*see* Vapor Chlori B.P.) Useful in chronic bronchitis and ozæna.
- Conium (*see* Vapor Coniæ B.P.) To allay irritability of larynx, spasmodic asthma, &c.
- Creasotum (*see* Vapor Creasoti B.P.) In phthisis to destroy tubercle bacillus, and in chronic bronchitis.
- Oleum Pini Sylvestris. 5 min. Use, same as Creasote.
- Potas. Permanganas. 2 to 5 gr. As a deodoriser in ozæna, ulcer of larynx, &c.
- Tinct. Ferri Per. 10 to 30 min. In early phthisis.
- „ Iodi (*see* Vapor Iodi B.P.) In chronic bronchitis with offensive sputa.

### SATURATION TABLE.

Equivalent weights of Citr. Acid, Tart. Acid, Carb. Potas., Bicarb. Potas., Carb. Sod., Bicarb. Sod., Carb. Ammon., and Carb. Mag.; repeated (in black) for 20 parts of each, and incidentally (in roman) for other proportions.

Citric Acid .....	20	19	17	14	10	17	24	30
Tartaric Acid .....	22	20	18	15	11	18	26	32
Carbonate of Potassium ....	24	22	20	16	12	20	28	35
Bicarbonate of Potassium ..	29	27	24	20	14	24	34	42
Carbonate of Sodium (cryst.)	40	38	34	28	20	34	49	60
Bicarbonate of Sodium .....	24	22	20	17	12	20	29	36
Carbonate of Ammonium....	17	16	14	12	8	14	20	25
Carbonate of Magnesium....	13	13	11	9	7	11	16	20

The Table is read thus: 20 grains of Citric Acid will saturate 29 grains of Bicarbonate of Potassium; 20 grains of Bicarbonate of Sodium will saturate, or be saturated by, 18 grains of Tartaric Acid; 11 grains of Tartaric Acid=8 grains of Carbonate of Ammonium; 20 grains of Bicarbonate of Sodium are equivalent to, or will do as much work as, 34 grains of Carbonate of Sodium; 14 grains of Citric Acid are as strong as 15 of Tartaric Acid.

Lemon Juice contains, on an average, 32½ grains of Citric Acid in 1 fluid ounce, or 4 grains per fluid drachm.

*Professor Atfield.*

### TEMPERATURE OF BATHS.

Bath.	Water.	Vapour.	Air.
The Cold ..	33° to 65° F.		
„ Cool ..	65° to 75°		
„ Temp. ..	75° to 85°		
„ Tepid..	85° to 92° ..	90° to 100° ..	96° to 106°
„ Warm ..	92° to 98° ..	100° to 115° ..	106° to 120°
„ Hot ..	98° to 112° ..	115° to 140° ..	123° to 170°



## PROPORTIONATE DOSES ACCORDING TO AGE.

*The following table may be taken as a guide for prescribing for young persons and children, but no fixed rule can be laid down to determine the dose in all cases. Thus a weakly person would require a less dose, as a rule, than one of robust constitution. Again, children will take comparatively larger doses of calomel than an adult, whilst of opiates they require less in proportion.*

If the adult dose of any given drug be one drachm,	
A person aged	18 to 20 years would take 50 grs. or min. = $\frac{5}{6}$
	16 " 18 " " 40 " " = $\frac{2}{3}$
	13 " 16 " " 30 " " = $\frac{1}{2}$
	10 " 13 " " 25 " " = $\frac{5}{12}$
	6 " 10 " " 20 " " = $\frac{1}{3}$
	4 " 6 " " 15 " " = $\frac{1}{4}$
	3 " 4 " " 10 " " = $\frac{1}{6}$
	2 " 3 " " $7\frac{1}{2}$ " " = $\frac{1}{8}$
	1 " 2 " " 5 " " = $\frac{1}{12}$
	$\frac{1}{2}$ " 1 year " 4 " " = $\frac{1}{15}$
	Under 6 months " 3 " " = $\frac{1}{20}$

### TABLE SHOWING THE ORDER OF DENTITION AND AVERAGE AGE AT ERUPTION.

#### I.—TEMPORARY OR MILK TEETH.

No. of Teeth in each jaw.	Description of Teeth.	Average age at Eruption.
2	Central Incisors .. ..	6 to 7 months
2	Lateral Incisors .. ..	8 to 9 months
2	Anterior Molars .. ..	12 months
2	Canines .. ..	18 months
2	Posterior Molars .. ..	24 months

As a rule, the eruption of any given tooth of the lower jaw precedes that of the corresponding tooth of the upper jaw by some two or three weeks.

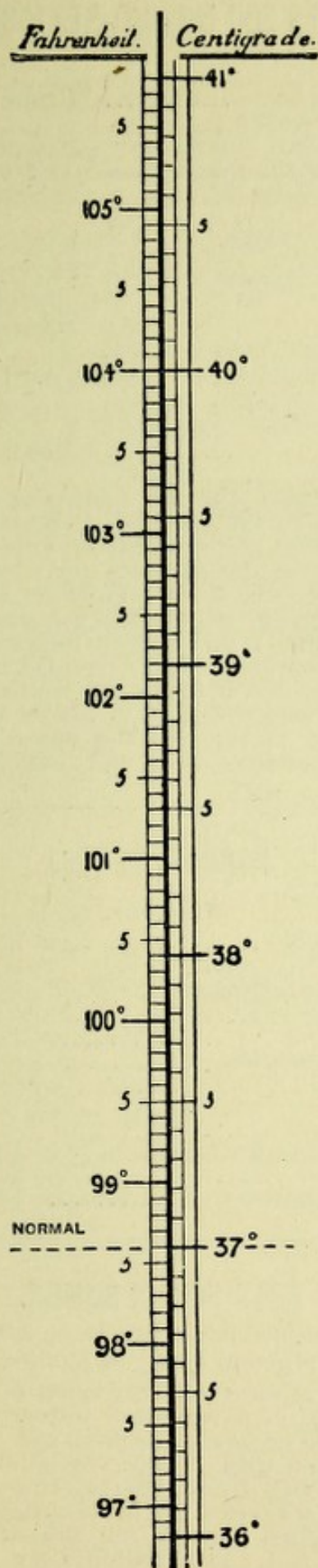
#### II.—PERMANENT TEETH.

No. of Teeth in each jaw.	Description of Teeth.	Average age at Dentition.
2	First Molars .. ..	6 years
2	Central Incisors .. ..	7 years
2	Lateral Incisors .. ..	8 years
4	Bicuspid .. ..	9 to 10 years
2	Canines .. ..	11 to 12 years
2	Second Molars .. ..	12 to 13 years
2	Third Molars or "Wisdom" Teeth.	18 to 25 years

The eruption of the "wisdom" teeth is sometimes delayed until after 30 years of age.



COMPARISON OF  
CENTIGRADE AND FAHRENHEIT THERMOMETRIC SCALES.



To convert degrees F. into degrees C. deduct 32, multiply by 5, and divide by 9.

To convert degrees C. into degrees F. multiply by 9, divide by 5, and add 32 to the result.



## CHEMICAL TESTS FOR MORBID STATES OF THE URINE

## A. Deposits.

- |                            |             |
|----------------------------|-------------|
| 1. Soluble by heat .....   | Urates.     |
| 2. Insoluble by heat :     |             |
| Soluble in Acetic Acid.... | Phosphatis. |
| " Hydrochloric Acid        | Oxylates.   |
| 3. Insoluble in Acids..... | Uric Acid.  |

- B. Precipitate by heat which is insoluble in Nitric Acid .. Albumen.

- C. Effervescence with heat and Acid Urea (which is converted into Carbonate of Ammonia.)

- D. Reddish precipitate by heat, Liq. Potassæ, and Sulphate of Copper Sugar.

- E. Blue ring, by gently adding mixture of Ozonic Æther and Guaiacum ..... Blood.

The simplest Apparatus for estimating the quantity of Urea are Southall's and Gerrard's Ureameters; the simplest for estimating the quantity of Sugar are Gerrard's and Dr. Johnson's; the simplest for Albumen, Esbach's Graduated Tubes, Cetti, 36, Brooke Street, Holborn.

The two best Pocket Urine Test Cases are made by Ernst Jahneke, Canonbury Works, Dorset Street, Essex Road, N. Wilson & Son, Pharmaceutical Chemists, Harrogate. The former is intended mostly for Dr. Johnson's Picric Acid and Caustic Potash Tests, and also Dr. Pavy's Ammonio Cupric and Ferrocyanic Tests; and the latter for Dr. Oliver's Mercuric Iodide Ferrocyanic and Indigo-Carmine Test Papers.

## POCKET TESTS.

## ALBUMEN.

Trichloroacetic Acid .....	Mons. Boymond's.
Picric Acid .....	Dr. Johnson's.
Potassio Mercuric Iodide c. Acid. Citric.	Dr. Oliver's Test Papers.
Potassii Ferrocyanid.....	
Ferrocyanic Pellets .....	Dr. Pavy's.
Rhodanide of Potassium .....	Equal parts.
Succinic Acid .....	

## SUGAR.

Picric Acid and Caustic Potash.....	Dr. Johnson's.
Cupric Pellets .....	Dr. Pavy's.
Indigo Carmine Papers .....	Dr. Oliver's.

## TEST FOR ALBUMEN.

*Salicyl-Sulphonic Acid.*—Drs. ROCH & McWILLIAM.

## METHOD OF EXAMINATION.

Take about 20 minims in a very small test-tube and add one or two drops of a saturated watery solution. If no reaction, add one or two more drops till the urine shows a distinct reaction with litmus. On adding the reagent shake the tube, and if opalescence occurs in *two or three seconds, proteids are present*; if opalescence occurs in from *half to two minutes, proteids are present in very minute quantity*. Next boil, and if peptones are present the precipitate or opalescence which first arises clears up just before boiling point is reached and reappears on cooling; if albumen is present, the opalescence or precipitate does not disappear, but becomes markedly flocculent.



## THE METRIC SYSTEM.

The highest authorities, among them Deschanel (*Natural Philosophy*), and the admirable tables quoted in *Whittaker's Almanack*, *The Statesman's Year Book*, &c., give 15.432349 grains as equivalent to 1 gramme. In the following tables, I take 15.5 grains as nearest, and as a number singularly easy for calculating equivalents on the metric system for medical science.

TABLE I.—Grammes.

1 gramme	=	15.5 grains
2 grammes	=	31.0 "
3 "	=	46.5 "
4 "	=	62.0 "
5 "	=	77.5 "
6 "	=	93.0 "
7 "	=	108.5 "
8 "	=	124.0 "
9 "	=	139.5 "
10 "	=	155.0 grains (exactly 154.3235)

Grammes are half more tens in grains, and the half repeated. Hence the rule: Quote as many tens, half as many tens, and half as many units.

*Questions.*—How many grains in 4 grammes, 6 grammes, and 8 grammes?

*Answers.*—4 tens + 2 tens + 2 = 62 grains.

6 " + 3 " + 3 = 93 "

8 " + 4 " + 4 = 124 "

TABLE II.—Decigrammes.

1 decigramme	=	1.55 grains
2 decigrammes	=	3.1 "
3 "	=	4.65 "
4 "	=	6.2 "
5 "	=	7.75 "
6 "	=	9.3 "
7 "	=	10.85 "
8 "	=	12.4 "
9 "	=	13.95 "
10 "	=	15.5 (1 gramme) "

Decigrammes are half more units in grains, and the half repeated. Hence the rule: Quote as many units, half as many units, and half as many decimals.

*Questions.*—How many grains in 4 decigrammes, 6 decigrammes, and 8 decigrammes?

*Answers.*—4 + 2 units + 2 decimals = 6.2 grains.

6 + 3 " + 3 " = 9.3 "

8 + 4 " + 4 " = 12.4 "

TABLE III.—Centigrammes.

1 centigramme	=	.155 grains
2 centigrammes	=	.31 "
3 "	=	.465 "
4 "	=	.62 "
5 "	=	.775 "
6 "	=	.93 "
7 "	=	1.085 "
8 "	=	1.24 "
9 "	=	1.395 "
10 "	=	1.55 (1 decigramme) "

Centigrammes are half more decimals in grains, and the half repeated. Hence the rule: Quote as many decimals, half as many decimals, and half as many hundredths.

*Questions.*—How many grains in 4, 6, and 8 centigrammes?

*Answers.*—4 decimals + 2 decimals + 2 = .62 grain.

6 " + 3 " + 3 = .93 "

8 " + 4 " + 4 = .124 "



TABLE IV.—*Milligrammes.*

1 milligramme	= .0155 grain
2 milligrammes	= .031 "
3 "	= .0465 "
4 "	= .062 "
5 "	= .0775 "
6 "	= .093 "
7 "	= .1085 "
8 "	= .124 "
9 "	= .1395 "
10 " (1 centigramme)	= .155 "

Milligrammes are half more hundredths of grain, and the half repeated. Hence the rule: Quote as many hundredths, half as many hundredths, and half as many thousandths.

*Questions.*—How many grains are 4, 6, and 8 milligrammes?

*Answers.*—4 hundredths + 2 hundredths + 2 = .062 grain.

6	"	+ 3	"	+ 3 = .093	"
8	"	+ 4	"	+ 4 = .124	"

TABLE V.—*Minims.*

The *British Pharmacopœia* gives 0.91 grain as equivalent to the minim. As 15.43235 grains = 1 gramme, we have .1543235 grain = 1 centigramme, and 6 centigrammes = .925941 grain, which is less than 16 thousandths of a grain *plus* the *British Pharmacopœia* minim. Taking the latter equivalent number for a minim, we have the following easy rule: To reduce minims to centigrammes, multiply the minims by 6.

1 minim	= 6 centigrammes (or .925941 grain).
2 minims	= 12 "
3 "	= 18 "
4 "	= 24 "
5 "	= 30 "
6 "	= 36 "
7 "	= 42 "
8 "	= 48 "
9 "	= 54 "
10 "	= 60 "

From the first four tables we make the following *résumé*, as applicable to all numbers.

How many grains are equivalent to 4, 6, 8, and 10 grammes, decigrammes, centigrammes, and milligrammes?

4 grammes	= 40	+ 20	+ 2	= 62	grains.
6 "	= 60	+ 30	+ 3	= 93	"
8 "	= 80	+ 40	+ 4	= 124	"
10 "	= 100	+ 50	+ 5	= 155	"
4 decigrammes	= 4	+ 2	+ .2	= 6.2	"
6 "	= 6	+ 3	+ .3	= 9.3	"
8 "	= 8	+ 4	+ .4	= 12.4	"
10 "	= 10	+ 5	+ .5	= 15.5	"
4 centigrammes	= .4	+ .2	+ .02	= .62	"
6 "	= .6	+ .3	+ .03	= .93	"
8 "	= .8	+ .4	+ .04	= 1.24	"
10 "	= 1.0	+ .5	+ .05	= 1.55	"
4 milligrammes	= .04	+ .02	+ .002	= .062	"
6 "	= .06	+ .03	+ .003	= .093	"
8 "	= .08	+ .04	+ .004	= .124	"
10 "	= .1	+ .05	+ .005	= .155	"

The rule is the same for all, and the figures for the equivalents are the same. The decimal point only is moved one place more to the left as we move lower in the metric table from grammes; because 10 decigrammes make 1 gramme, 10 centigrammes make 1 decigramme, 10 milligrammes make 1 centigramme.

ISAAC GREGORY, F.R.G.S.

Author of *The British Metric System, &c.*

MERCHANTS' COLLEGE, BLACKPOOL.



# TABLE OF METRIC WEIGHTS AND MEASURES

Taken, with slight alterations and additions, from *The London Medical Record*, March, 1887, and *Messrs. Ferris & Co.'s Therapeutic Notes*.

## LENGTH.

Unit of Measurement.	Approximate Equivalent.	Accurate Equivalent.
1 inch .....	2½ cubic centimetres ..	2.539
1 centimetre ( $\frac{1}{100}$ metre) ....	0.4 inch .....	0.393
1 yard .....	1 metre .....	0.914
1 metre (39.37 inches).....	1 yard .....	1.093
1 foot .....	30 centimetres .....	30.479
1 kilometre (1,000 metres)....	$\frac{5}{8}$ mile .....	0.621
1 mile .....	1½ kilometre .....	1.609

## WEIGHT.

1 gramme .....	15½ grains .....	15.432
1 centigramme .....	between $\frac{1}{8}$ and $\frac{1}{7}$ grain	0.154
1 milligramme .....	$\frac{1}{625}$ grain .....	0.015
1 grain .....	0.064 gramme .....	0.064
1 kilogramme (1,000 grammes)	2½ pounds, avoirdupois	2.204
1 pound, avoirdupois .....	$\frac{1}{2}$ kilogramme .....	0.453
1 ounce, avoirdupois (437½ grains) .....	28½ grammes .....	28.348
1 ounce, troy or apothecary (480 grains).....	31 grammes .....	31.103

## BULK.

1 cubic centimetre .....	0.06 cubic inch .....	0.061
1 cubic centimetre (1 c.c.)....	17 minims .....	16.932
1 cubic inch .....	16½ cubic centimetres	16.386
1 litre (1,000 cubic centimetres) .....	35 fluid ounces .....	35.275
1 gallon .....	4½ litres .....	4.535
1 fluid ounce .....	28½ cubic centimetres	28.348

## SURFACE.

1 hectare (10,000 square metres) .....	2½ acres .....	2.471
1 acre .....	$\frac{2}{5}$ hectare.....	0.404

The following rules, though the results are necessarily not quite accurate, give a "rough and ready" method for converting one system of weights into the other:

- To convert *grains* into *centigrammes* ..... multiply by 6.
- To convert *centigrammes* into *grains* ..... divide by 6.
- To convert *grains* into *milligrammes* ..... multiply by 60.
- To convert *milligrammes* into *grains* ..... divide by 60.
- To convert *grains* into *grammes*, or *minims* into *fluid grammes* ..... divide by 15.
- To convert *grammes* into *grains*, or *fluid grammes* into *minims* ..... multiply by 15.
- To convert *drachms* into *grammes*, or *fluid drachms* into *fluid grammes* ..... multiply by 4.
- To convert *grammes* into *drachms*, or *fluid grammes* into *fluid drachms* ..... divide by 4.
- To convert *ounces* into *grammes*, or *fluid ounces* into *fluid grammes* ..... multiply by 30.
- To convert *grammes* into *ounces*, or *fluid grammes* into *fluid ounces* ..... divide by 30.

In Continental prescribing and dispensing the metric system is now generally adopted—the quantities of the ingredients are written in decimal proportions of a gramme (the word "gramme" being usually omitted), and all liquids are weighed.



TABLE OF THE EXPECTATION OF LIFE FOR HEALTHY MALES,  
According to the experience of Life Insurance Offices, as collected by the Institute of Actuaries.

Age.	Expectation.	Age.	Expectation.	Age.	Expectation.	Age.	Expectation.	Age.	Expectation.	Age.	Expectation.
20	42	29	35½	38	29	47	22½	56	16½	65	11
21	41½	30	34½	39	28	48	21½	57	15½	66	10½
22	40½	31	34	40	27½	49	21	58	15	67	10
23	40	32	33	41	26½	50	20½	59	14½	68	9½
24	39	33	32½	42	26	51	19½	60	14	69	9
25	38½	34	31½	43	25	52	19	61	13	70	8½
26	37½	35	31	44	24½	53	18½	62	12½		
27	37	36	30½	45	24	54	17½	63	12		
28	36	37	29½	46	23	55	17	64	11½		



# AVERAGE HEIGHTS AND WEIGHTS OF MAN

IN

*Infancy, Adolescence, and Adult Life.*

CONDENSED, BY PERMISSION OF THE EDITOR, FROM  
*The Students' Journal.*

Age in years.	MALES.		FEMALES.	
	Height in inches.	Weight in pounds.	Height in inches.	Weight in pounds.
At birth	19.7	6.8	19.3	6.6
1	27.5	19.8	27.0	18.9
2	31.0	24.2	30.7	24.2
3	34.2	27.5	33.6	27.2
4	36.6	30.8	35.9	30.5
5	38.8	34.9	38.5	33.6
6	41.2	39.1	40.7	36.7
8	45.7	47.5	45.5	41.8
10	50.4	55.4	49.2	50.8
12	54.5	63.8	52.7	63.8
14	58.6	81.6	58.1	79.8
16	63.0	99.8	59.8	95.7
18	65.2	118.5	61.6	109.5
20	65.8	130.9	62.0	117.0
22	66.2	138.3	62.1	120.0
25	66.3	145.6	62.1	120.5
30	66.3	145.4	62.1	121.6

[NOTE.—According to Dr. Hutchinson the mean weight of healthy men at the middle period of life varies according to the height as follows:—5 ft. 1 in., 120 lbs.; 5 ft. 2 in., 126 lbs.; 5 ft. 3 in., 133 lbs.; 5 ft. 4 in., 139 lbs.; 5 ft. 5 in., 142 lbs.; 5 ft. 6 in., 145 lbs.; 5 ft. 7 in., 148 lbs.; 5 ft. 8 in., 155 lbs.; 5 ft. 10 in., 169 lbs.; 6 ft., 178 lbs.]

## VITAL CAPACITY OF THE LUNGS AS INDICATED BY THE SPIROMETER.

The experiments of Dr. Hutchinson show that the vital capacity of the lungs (*i.e.* the volume of air expired from the lungs after the most complete inspiration) in health varies according to the height as follows:—From 5 ft. to 5 ft. 1 in., 174 cubic inches; from 5 ft. 2 in. to 5 ft. 3 in., 190 cub. in.; 5 ft. 4 in. to 5 ft. 5 in., 206 cub. in.; 5 ft. 6 in. to 5 ft. 7 in., 222 cub. in.; 5 ft. 8 in. to 5 ft. 9 in., 238 cub. in.; 5 ft. 11 in. to 6 ft., 262 cub. in.

In the first stage of phthisis the "vital capacity" decreases about one-third; in the second stage about two-fifths; and in the third stage to less than one-half of the normal.



# AVERAGE NORMAL WEIGHT AND SIZE OF THE PRINCIPAL ORGANS IN THE ADULT

(After Wilson).

**BRAIN** (including cerebrum, cerebellum, meso-cephalon, and medulla oblongata).—*Male*, 50 ounces; *Female*, 44 ounces.

**HEART**.—Length, about 5 inches; greatest breadth,  $3\frac{1}{2}$  inches; thickness,  $2\frac{1}{2}$  inches; weight in the *Male*, 11 ounces; in the *Female*, 9 ounces.

**KIDNEYS**.—Weight, between 3 and 5 ounces; length, between 4 and 5 inches; breadth,  $2\frac{1}{2}$  inches; thickness, about 1 inch.

**LIVER**.—Weight, 4 pounds; longest diameter, 12 inches.

**LUNGS**.—*Right*, 21 ounces; *Left*, 19 ounces.

**PANCREAS**.—Weight, between 3 and 4 ounces; length, 6 inches.

**SPLEEN**.—Weight, 6 ounces; length, 5 inches.

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## ALCOHOL TABLE.

Per-centage of Alcohol contained in the  
following Liquids:

RUM .....	60 to 75
WHISKY .....	54 „ 60
BRANDY (British) .....	50 „ 60
„ (French) .....	50 „ 55
GIN .....	48 „ 58
SHERRY .....	14 „ 27
PORT .....	14 „ 24
ROUSSILLON .....	11 „ 16
HUNGARIAN WINES .....	9 „ 15
CLARET .....	9 „ 14
MOSELLE .....	8 „ 13
CHABLIS .....	8 „ 12
SAUTERNE.....	8 „ 12
BURGUNDY .....	8 „ 12
RHINE WINES .....	7 „ 15
CHAMPAGNE.....	7 „ 13
ALE.....	6 „ 9
CIDER .....	5 „ 9
PORTER.....	4 „ 7
BEER .....	2 „ 4



## ARTICLES OF FOOD

PLACED ACCORDING TO  
THE VALUE OF CARBON.

(After LETHEBY).

	<i>Grains per pound.</i>	
	CARBON	NITROGEN
FRESH BUTTER .....	6456	—
DRY BACON .....	5987	95
DRIPPING .....	5456	—
GREEN BACON .....	5426	76
LARD .....	4819	—
SUET ... ..	4710	—
SALT BUTTER .....	4585	—
FAT PORK .....	4113	106
COCOA .....	3934	140
CHEDDAR CHEESE .....	3344	306
INDIAN MEAL .....	3016	120
SUGAR .....	2955	—
OATMEAL .....	2831	136
RICE .....	2732	68
SECONDS FLOUR .....	2700	116
SPLIT PEAS .....	2699	248
RYE MEAL.....	2693	86
PEARL BARLEY .....	2660	91
BARLEY MEAL.....	2563	68
TREACLE.....	2395	—
BAKER'S BREAD .....	1975	88
SKIM CHEESE .....	1947	483
MUTTON .....	1900	189
BEEF .....	1854	181
RED HERRINGS .....	1435	217
BULLOCK'S LIVER .....	934	204
WHITE FISH.....	871	195
POTATOES .....	769	22
NEW MILK.....	599	44
PARSNIPS .....	554	12
CARROTS.....	508	14
SKIMMED MILK .....	438	43
GREEN VEGETABLES.....	420	14
BUTTERMILK .....	387	44
BEER AND PORTER .....	274	1
TURNIPS.....	263	13
WHEY .....	154	13



## ARTICLES OF FOOD

PLACED ACCORDING TO

## THE VALUE OF NITROGEN.

(After LETHEBY.)

	<i>Grains per pound.</i>	
	NITROGEN	CARBON
SKIM CHEESE . . . . .	483	1947
CHEDDAR CHEESE . . . . .	306	3344
SPLIT PEAS . . . . .	248	2699
RED HERRINGS . . . . .	217	1435
BULLOCK'S LIVER . . . . .	204	935
WHITE FISH . . . . .	195	871
MUTTON . . . . .	189	1900
BEEF . . . . .	184	1854
COCOA . . . . .	140	3934
OATMEAL . . . . .	136	2831
INDIAN MEAL . . . . .	120	3016
SECONDS FLOUR . . . . .	116	2700
FAT PORK . . . . .	106	4113
DRY BACON . . . . .	95	5987
PEARL BARLEY . . . . .	91	2660
BAKER'S BREAD . . . . .	88	1975
RYE MEAL . . . . .	86	2693
GREEN BACON . . . . .	76	5426
BARLEY MEAL . . . . .	68	2563
RICE . . . . .	68	2732
BUTTERMILK . . . . .	44	387
NEW MILK . . . . .	44	599
SKIMMED MILK . . . . .	43	438
POTATOES . . . . .	22	769
GREEN VEGETABLES . . . . .	14	420
CARROTS . . . . .	14	508
TURNIPS . . . . .	13	263
WHEY . . . . .	13	154
PARSNIPS . . . . .	12	554
BEER AND PORTER . . . . .	1	274
SUGAR . . . . .	—	2955
TREACLE . . . . .	—	2395
DRIPPING . . . . .	—	5456
SUET . . . . .	—	4710
LARD . . . . .	—	4819
SALT BUTTER . . . . .	—	4585
FRESH BUTTER . . . . .	—	6456



# TIME REQUIRED FOR THE DIGESTION OF VARIOUS ARTICLES OF FOOD.

Pigs' Feet	}	BOILED.....	1 hour.
RICE .....			
TRIPE .....			
BARLEY SOUP.....			1½ hours.
BOILED SAGO .....			1¾ hours.
BOILED BARLEY .....	}		2 hours.
RAW EGGS .....			
BOILED MILK .....			
RAW MILK .....			2¼ hours.
BOILED BROAD BEANS .....	}		2½ hours.
HASHED MEAT AND VEGETABLES.....			
BROILED LAMB.....			
BAKED POTATOES .....			
ROAST TURKEY.....			
BOILED SALT BEEF.....	}		2¾ hours.
BAKED CUSTARD .....			
ROAST BEEF .....	}		3 hours.
SOFT BOILED EGGS .....			
BOILED MUTTON .....			
BOILED SALT PORK .....			
ROAST MUTTON.....	}	SOUP.....	3¼ hours.
CHICKEN			
OYSTER			
BREAD .....	}		3½ hours.
BUTTER .....			
CHEESE .....			
HARD BOILED EGGS .....			
FRIED EGGS .....			
STEWED OYSTERS.....			
ROAST DUCK .....	}		4 hours.
ROAST FOWL .....			
BOILED VEAL .....			
ROAST VEAL .....			4½ hours.



# THE NUTRITIVE VALUE OF FOOD,

BY PROFESSOR ATWATER, CONNECTICUT, U.S.A.

*Beef is taken at a basis of 100.*

## MEAT, GAME, AND FOWL.

1. SMOKED HAM .....	157.0	7. FOWL .....	93.9
2. SMOKED BEEF ..	146.0	8. VEAL (FAT) .....	92.4
3. PORK (FAT) .....	116.0	9. BEEF (LEAN) ....	91.3
4. BEEF (FAT) .....	112.0	10. VENISON .....	88.8
5. DUCK .....	104.0	11. MUTTON (MEDIUM)	86.6
6. BEEF (MEDIUM) ..	100.0		

## ANIMAL PRODUCE.

1. CHEESE (FROM SKIMMED MILK) .....	159.0
2. CHEESE (FROM WHOLE MILK) .....	151.0
3. BUTTER .....	124.1
4. CHEESE (FROM MILK WITH CREAM ADDED) .....	103.0
5. HEN'S EGGS .....	72.2
6. CREAM (FROM COW'S MILK) .....	56.0
7. COW'S MILK (NORMAL) .....	23.8
8. COW'S MILK (SKIMMED) .....	18.5

## FRESH FISH.

	Per Cent. of Edible Solids <i>i.e.</i> after removal of bones and non-edible parts.		Nutritive Value of Edible Solids.
1. SALMON .....	32.99	1. SALMON .....	107.9
2. EELS .....	22.50	2. WHITE FISH.....	104.5
3. TURBOT .....	15.61	3. HERRING .....	100.4
4. MACKEREL .....	15.48	4. SALMON TROUT ..	95.7
5. SALMON TROUT..	14.38	5. EELS .....	95.6
6. WHITE FISH ....	13.69	6. MACKEREL.....	90.9
7. SMELT .....	12.51	7. TURBOT .....	84.4
8. HERRING .....	11.52	8. BROOK TROUT ....	84.2
9. COD .....	11.45	9. FLOUNDER.....	82.4
10. BROOK TROUT ..	10.77	10. HADDOCK .....	74.9
11. HADDOCK.....	8.88	11. SMELT.....	73.8
12. FLOUNDER .....	5.97	12. COD .....	68.2

## PREPARED FISH AND INVERTEBRATES.

1. CANNED SALMON	29.95	1. SMOKED HERRING	163.2
2. SMOKED HERRING	28.66	2. CANNED SALMON..	107.2
3. SALTED COD ....	20.45	3. SALTED COD .....	102.5
4. SCALLOPS.....	17.47	4. SCALLOPS .....	68.8
5. LOBSTERS.....	7.98	5. LOBSTERS .....	50.3
6. OYSTERS.		6. OYSTERS.....	21.8

## PREPARED FOODS FOR INVALIDS.

1. Valentine's Meat Juice.
2. Caffyn's Liquor Carnis.
3. Denaeyer's Liquid Peptone of Meat.  
(Agents—118, Bishopsgate Street Within.)
4. Brand's Essence of Beef.
5. Viking Essence of Beef.
6. Edge's Lion Essence of Beef, 9, Farringdon Road.
7. Peptonized Meat Suppositories.
8. Koumiss.

Champagne in Syphons, for Invalids, Carswell & Co.,  
32a, Piccadilly.



## MAKERS OF BREAD AND BISCUITS, &c. FOR DIABETIC PATIENTS.

Van Abbott, 5, Prince's Street, Cavendish Square.  
J. Bothron, 106, Regent Street.  
E. Blatchley, 167, Oxford Street.  
Jas. McDougall, 322, New City Road, Glasgow.  
Clarke, 1, Bruntsfield Place North, Edinburgh.  
Herr Pittroff, Carlsbad (almond biscuits).

Diabetic Champagne (absolutely free from sugar),  
Seckbach & Co., 32, Hamsell Street, E.C.  
G. B. Diabetic Whisky, G. Back & Co., 14, Devonshire  
Square, Bishopsgate, E.C.

## FOODS SUITABLE FOR INFANTS.

1. Aylesbury Dairy Co.'s Artificial Human Milk.
2. Mellin's Food, with Milk.
3. Savory & Moore's Food, with Milk.
4. Benger's Food, with Milk.
5. Peptonised Milk.
6. Voltmer's Prepared Milk.  
(Agents—Hardman, 103, Great Hampton Street,  
Birmingham.)

Professor Frankland recommends Artificial Human Milk to be prepared as follows:—"Let one-third of a pint of new cow's milk stand twelve hours, then remove the cream and add to it two-thirds of a pint of new milk as fresh from the cow as possible. To the one-third of a pint of skim-milk left after taking away the cream add a piece of rennet, about an inch square in size, and let the vessel holding the skim-milk be placed in warm water, and there remain for from five to fifteen minutes till curdling is effected. Break up the curd repeatedly, and carefully separate the whole of the whey, which should then be rapidly heated to boiling point in a small tin pan placed over a spirit or gas lamp. During this heating a further quantity of casein separates, and so after this careful straining through fine muslin is required. Now dissolve 110 grains of powdered sugar of milk in the hot water, and mix it with the two-thirds of a pint of new milk as before prepared with extra cream. This gives one pint of 'artificial human milk,' which should be used within twelve hours of its preparation."

A good Artificial Human Milk can be made by mixing Walden's Extract of Rennet with pure milk, then adding to the whey a certain proportion of fresh milk and sugar of milk.—WALDEN, 65, Elizabeth Street, Eaton Square.

MAWSON & SWAN'S (Newcastle) Compound Sugar of Milk is useful for mixing with milk and water.

## BEST PRESERVED MILKS.

Dahl's (Not Condensed), 11, John Street, Minorities.  
Fresh Swiss Alpine Milk Exports Co., 17 & 18, St. Dunstan's  
Hill, E.C.  
Loefflund's (Condensed and Unsweetened), 148½, Fenchurch  
Street.

## DAIRIES FOR THE SUPPLY OF ASSES' MILK.

London Dairy Co., 54, Edgware Road.  
DAWKINS & Co., 66, Bulsover Street, near Portland Road  
Station.



## NATURAL MINERAL WATERS.

## TABLE WATERS.

Useful in Dyspepsia, Hepatic Derangement, Gout and Rheumatism.

<b>Apollinaris</b>	.....	<i>Rhenish Prussia.</i>
<b>Bellthal</b>	.....	<i>Nassau, Germany.</i>
<b>Bilin</b>	.....	<i>Austria.</i>
<b>Birresborne</b>	.....	<i>Nassau, Germany.</i>
<b>Couzan</b>	.....	<i>France.</i>
<b>Giesshubler</b>	.....	<i>Bohemia, Austria.</i>
<b>Roisdorf</b> (slightly aperient)	.....	<i>Germany.</i>
<b>Rosbach</b>	.....	<i>Nassau, Germany.</i>
<b>St. Galmier</b>	.....	<i>France.</i>
<b>Schwalheim</b>	.....	<i>Hesse-Cassel, Germany.</i>
<b>Seltzer</b> (slightly aperient)	.....	<i>Nassau, Germany.</i>
<b>Soultzmatt</b>	.....	<i>Alsace, Germany.</i>
<b>Taunus</b>	.....	<i>Nassau, Germany.</i>
<b>Teplitz</b>	.....	<i>Austria.</i>
<b>Victoria</b>	.....	<i>Oberlahnstein, Nassau, Germany.</i>
<b>Wildungen</b> (slightly chalybeate)	.....	<i>Germany.</i>
<b>Wilhelmsquelle</b>	.....	<i>Germany.</i>

## CHALYBEATE WATERS.

Useful in Anæmia, and Functional Disorders of the Digestive Organs.

<b>Altwasser</b> (alkaline)	.....	<i>Silesia, Prussia.</i>
<b>Bussang</b> (gaseous)	.....	<i>Vosges, France.</i>
<b>Contrexeville</b> (slightly chalybeate and alkaline)	.....	<i>Vosges, France.</i>
<b>Marcols</b> (alkaline)	.....	<i>France.</i>
<b>Orezza</b> (strong)	.....	<i>Corsica.</i>
<b>Pyrmont</b>	.....	<i>Prussia.</i>
<b>St. Moritz</b> (gaseous)	.....	<i>Switzerland.</i>
<b>Schwalbach</b> (alkaline)	.....	<i>Nassau, Germany.</i>
<b>Spa</b> (alkaline)	.....	<i>Belgium.</i>
<b>Vichy</b> (slightly chalybeate and alkaline)	....	<i>France.</i>

## ENGLISH.

**Shelfanger** (near Diss, Norfolk), **Flitwick** (Amphill, Beds,) **Tunbridge Wells**, **Cheltenham**, **Harrogate**, and **Melksham**.

N.B.—The Flitwick Mineral Spring is one of the strongest chalybeates known.



**BROMO-IODURETTED WATERS.**

Useful in Scrofula, Rheumatism, Uterine Tumours,  
Constitutional Syphilis. The chief are:—

**Adelheidsquelle** ..... *Bavaria.*  
**Kreuznach** ..... *Prussia.*

**ENGLISH.**

**Woodhall** (*Lincolnshire*); **Purton** (*Wiltshire*).

**SULPHUROUS WATERS.**

Useful in Cutaneous, Hepatic, Uterine, Rheumatic,  
Gouty, Neuralgic, and old constitutional Syphilitic  
Diseases.

The excretion of Carbonic Acid by the Lungs and  
Skin, as well as of Urea and Uric Acid by the Kidneys,  
is probably, says Dr. Tanner, increased by these waters.  
The higher the temperature the more stimulating the  
effect of the water on the nervous, vascular, and  
cutaneous systems.

**Bagnères-de-Luchon** (Thermal, 133°) .... *France.*  
**Bareges** (Thermal, 87° to 113°), *Haut Pyrenees, France.*  
**Bonnes** (calcareous) ..... *Basses Pyrenees, France.*  
**Challes** (the strongest known) ..... *Savoy, France.*  
**Enghien** ..... *France.*  
**Weilbach** ..... *Nassau, Germany.*

The Harrogate, Dinsdale-on-Tees (Durham), and  
some of the Cheltenham Springs contain sulphurous  
chalybeates.

**SALINE WATERS.**

Those which are APERIENT and contain sulphate of  
soda or sulphate of magnesia as their chief ingredients,  
are useful in habitual constipation, torpidity of the  
liver, inactivity of the abdominal viscera generally,  
chronic rheumatism and sciatica. The following are  
the chief:—

**Birmenstorf** (mild) ..... *Switzerland.*  
**Carlsbad** (slightly sparkling, 105° to 162°), *Austria.*  
**Friedrichshall** ..... *Prussia.*  
**Hunyadi Janos** (slightly chalybeate) .... *Hungary.*  
**Marienbad** (like Carlsbad, but stronger) .... *Austria.*



**Pullna**..... *Austria.*

**Rakoczi** (less irritating than Hunyadi) .. *Hungary.*

**Tarasp** ..... *Switzerland.*

The chief ENGLISH APERIENT SALINE WATERS are those of

**Epsom.**

**Filey.**

**Cheltenham.**

**Purton, near Swindon.**

**Leamington.**

**Airthrey (Bridge of Allan).**

Those SALINE WATERS which have chloride of sodium as their characteristic ingredient are useful in scrofula, rheumatism, dyspepsia from overwork, and irregularity of the bowels. The chief of these are:—

**Baden-Baden** (weak, Thermal, 155°) .... *Germany*

**Homburg** (strong and effervescing)..... *Germany.*

**Kissingen** (weaker than Homburg) ..... *Germany.*

**Mondorf**..... *Luxembourg.*

**Wiesbaden** (Thermal, 156°) ..... *Germany.*

The chief ENGLISH SALINE WATERS are

**Ashby-de-la-Zouch and Droitwich.**

The chief ALKALINE SALINE WATERS, containing chiefly carbonate or bicarbonate of soda, are:—

**Bilin** (Thermal, 53·6°) ..... *Austria.*

**Ems** (Thermal, 85° to 117°)..... *Germany.*

**Vichy** (Thermal, 50° to 110·2°) ..... *France.*

**Neuenahr** (Thermal, 93·2° to 104°) .... *Germany.*

**Mont Dore** (Thermal, 106° to 108°) ..... *France.*

**Fachingen** (Thermal, 50°) ..... *Germany.*

The sulphate or carbonate of lime, or both, predominate in the Thermal waters of Bath (gaseous, Thermal, 98° to 118°), and Buxton (gaseous, Thermal, 82°).

#### SALINE AND SULPHUROUS WATERS.

Useful in rheumatism, gout, liver, and skin diseases.

**Aix-les-Bains** (Thermal, 108° to 116°).... *France.*

**Aix-la-Chapelle** (Thermal, 116° to 131°).. *Prussia.*

**Baden** (Thermal, 89° to 95°) .... *Vienna, Austria.*

**Baden** (Thermal, 117° to 122°) ..... *Switzerland.*

#### ENGLISH.

**Dinsdale-on-Tees, Darlington**..... *Durham.*

#### MURIATED LITHIA WATER.

Useful for gout and the uric acid diathesis.

The chief is that of

**Baden-Baden** ..... *Germany.*

**Kronenquelle** ..... *Germany.*



## NOTES ON POISONINGS.

*Immediate Treatment alone is indicated.*

**ACIDS.**—Exhibit freely alkalies, as magnesia or its carbonate, in milk or water, lime water, chalk, or in their absence, whitening. Oil or soap and water are useful.

**ACONITE.**—See TOBACCO.

**ALCOHOL.**—Use the stomach pump and emetics; afterwards apply cold affusion to the face and neck, with warmth to the extremities. The internal use of ammonia, as also artificial respiration or galvanism, may afterwards be required.

**ALKALIES.**—Use diluted acids as vinegar or lemon juice. Give oil.

**AMMONIA.**—See ALKALIES.

**AMYL, Vapour of Nitrite of.**—Give plenty of fresh air at once, loosen the clothes at the neck, maintain the recumbent position and give tea or coffee. In extreme cases use artificial respiration.

**ANTIMONY and its Salts.**—In poisoning by Tartar Emetic, promote vomiting at once by demulcents and frequent draughts of warm water. Afterwards give infusion of tea, nut-galls, cinchona or tannin. Opium is required to check diarrhoea. If poisoning occurs from Sesquichloride of Antimony, at first proceed as in cases of poisoning by the mineral acids and afterwards give tannin as above.

**ARSENIC and its Compounds.**—Use the stomach pump at once, and excite vomiting by the usual means. Exhibit magnesia, charcoal, in half-ounce doses, or the hydrated sesquioxide of iron.

**ATROPIA.**—See BELLADONNA.

**BARIUM and its Salts.**—Use the stomach pump and give the sulphate of magnesia or soda.

**BELLADONNA.**—Use emetics and the stomach pump. Exhibit alkalies, as magnesia or lime water, or charcoal. Stimulants and cold affusion may be required. Ammonia may be breathed by the lungs. In very extreme cases the extract of Physostigma (Calabar bean) may be subcutaneously injected in doses of  $\frac{1}{4}$  grain, but this remedy should be used *with caution*. Pilocarpine has been successfully used, given hypodermically.

**BISMUTH and its Salts.**—Use the stomach pump, and exhibit emollient drinks.

**BROMINE.**—See IODINE.

**CANNABIS INDICA.**—See MORPHIA.

**CANTHARIDES.**—Excite vomiting at once; give freely linseed tea, albumen of egg and demulcents generally. The use of oil is doubtful.

**CARBONIC ACID, and Noxious Gases generally.** Remove the patient quickly into pure air; place him on his back with his head slightly raised; dash cold water on the face and neck, and, if necessary, use artificial respiration. As the patient recovers, use mild stimulants in small quantities by the mouth.

**CARBOLIC ACID.**—Exhibit freely olive oil, saccharated lime water or plain lime water, and, in absence of these, magnesia or its carbonate.



**CHLORAL.**—Empty the stomach by the use of emetics or the stomach pump and proceed as in poisoning by opium. Strychnia (1 or 2 minims of the officinal solution), and physostigma ( $\frac{1}{4}$  grain of the extract dissolved in a little water), are recommended to be subcutaneously injected in severe cases as antidotes.

**CHLOROFORM.**—Use the stomach pump. Apply cold affusion, artificial respiration, and galvanism to the spine. Let the patient inhale 2 or 3 drops of nitrite of amyl. In case of poisoning by vapour expose the patient freely to a current of fresh air. Flip the cheeks, chest, abdomen and limbs with a wet towel and use vigorously artificial respiration. If collapse does not yield, an ounce of brandy may be injected into the rectum. Apply ammonia to the nostrils if there be the slightest sign of inspiration. In case of collapse continuous air may be introduced *directly* into the lungs by the use of a large catheter passed into the larynx.

NOTE.—Artificial respiration should be continued for at least an hour.

**CHLORINE, Vapour of, and Chlorides.**—Exhibit albumen of eggs, flour and water or oil. Use the stomach pump and in case of vapour remove into fresh air.

**CHLORODYNE.**—See MORPHIA.

**COCAINE.**—If taken recently by mouth, exhibit stimulant emetics, as mustard and water. Mustard and hot applications to the cardiac and hypogastrie regions are required. Amyl nitrite relieves the difficulty of breathing and the collapse. Stimulants by mouth and æther subcutaneously injected should be used from the first.

**COLCHICUM.**—See VERATRUM.

**CONIUM.**—Excite vomiting. Exhibit infusion of galls, tea, &c. Strychnia may be an antidote.

**COPPER and its Salts.**—Give freely albumen of eggs, milk, wheaten flour mixed with water, as also magnesia or iron filings. Ferrocyanide of potassium in one-drachm doses and turpentine have been recommended.

**CORROSIVE SUBLIMATE.**—Exhibit freely and quickly albumen of eggs, milk, alkalies and charcoal; also use gluten or flour of wheat mixed with water.

**CREASOTE.**—Use ammonia and other stimulants, and give oleaginous and mucilaginous fluids. If necessary use artificial respiration.

**CROTON OIL.**—Evacuate the stomach. Use demulcent drinks. Give opium to control the purging and ammonia to support the circulation. Use also in extreme cases warm baths.

**CYANIDE OF POTASSIUM.**—See HYDROCYANIC ACID.

**DIGITALIS.**—Use the stomach pump and emetics; also stimulants and vegetable astringent infusions, as tea, &c. Be careful to keep the patient strictly in the recumbent position.

**ELATERIUM.**—See CROTON OIL.

**FUNGI, Poisonous.**—Give emetics and aperients. Subsequent treatment to be determined by symptoms.

**HELLEBORE.**—See CROTON OIL.

**HYDROCYANIC ACID.**—Cold affusion over the face and chest should be used *at once*, and artificial respiration commenced. Give ammonia if the patient can swallow, or apply ammonia to the nostrils. Chlorine water, or, in its absence, weak solution of chloride of sodium or lime, are recommended, and, in absence of either, diluted hydrochloric acid. Inject ammonia or æther subcutaneously, or brandy by the rectum.



**HYOSCYAMUS.**—Use emetics and follow with brisk administration of stimulants and purgatives.

**IODINE.**—Use the stomach pump, and promote vomiting by use of demulcents containing starchy matter, as arrowroot. If not at hand, substitute albumen of egg or magnesia, lime water or milk. Sulphate of soda has been recommended.

**LEAD and its Salts.**—Use the sulphates of soda, magnesia, potassa, or alum in solution. Excite vomiting by tickling the fauces or by the use of the sulphate of zinc.

**LOBELIA.**—See TOBACCO.

**MERCURY and its Salts.**—Proceed as under head of corrosive sublimate; but in cases of poisoning by bichloride of mercury, the use of albumen is valueless. Irritation and pain may require opium.

**MORPHIA and Opium.**—Use the stomach pump, excite vomiting by tickling the fauces or use of emetics. Exhibit ammonia, magnesia, or charcoal. Dr. Ringer recommends bromide of potassium. Use atropine hypodermically in small and repeated doses. Apply the cold douche over the face and chest, and galvanism from the spine through the chest. Rouse the patient by tickling him, flapping the soles and hands with a wet towel, and by walking him about. Exhibit strong tea or coffee, and, in an extreme case, the injection of ten drops of liquor ammoniac into the veins has been attended with success. Artificial respiration may be necessary.

**NUX VOMICA.**—See STRYCHNIA.

**OXALIC ACID.**—Exhibit by mouth salts of lime or lime water, magnesia, and, in their absence, albumen of egg, milk, and demulcents of all kinds.

**PHOSPHORUS and its Compounds.**—Use *freely* demulcent fluids, magnesia, and emetics, and give turpentine. Oil must be avoided.

**PHYSOSTIGMA (Calabar Bean).**—The antidotes to this poison are chloral and atropia subcutaneously injected.

**PICROTOXINE (Cocculus Indicus).**—Chloral is recommended as the antidote, in full dose of twenty grains.

**SAVIN.**—Use emetics and demulcent drinks, as milk, linseed tea, &c. Opium and warm bath may be required.

**SECALE.**—Empty the stomach by the stomach pump and emetics. Use purgatives. Chlorine gas (and in its absence diluted hydrochloric acid) is stated to decompose ergotine.

**SILVER and its Compounds.**—Exhibit chloride of sodium (common salt) or alkalies and use the stomach pump.

**STRAMONIUM.**—See BELLADONNA.

**STRYCHNIA.**—Evacuate quickly the contents of the stomach. Benefit might be obtained from the use of astringents as tea, coffee or infusion of galls. Alkaline bicarbonates, conia, ether, and turpentine may be used. Inhalation of the nitrite of amyl or its subcutaneous injection are useful. Narcotics and chloral are required to check the spasms. Calabar bean in state of extract ( $\frac{1}{4}$  grain dissolved in small quantity of water) may be subcutaneously injected. Potassium bromide in full and repeated doses and Paraldehyde are also recommended.

**TOBACCO.**—Use the stomach pump. Exhibit vegetable astringents, vegetable acids and stimulants. Apply artificial respiration if necessary.

**VERATRUM.**—Use the stomach pump, and exhibit freely tannin and astringent drinks with demulcents.

**ZINC, Chloride of.**—In case of poisoning by the chloride (Burnett's solution) use demulcents, as linseed tea, milk, &c. Give also emetics. Vegetable astringents are recommended, and opium may be required to allay pain.



## POISONS AND THEIR ANTIDOTES.

Messrs. BURROUGHS, WELLCOME & Co. issue the following useful directions :—

POISONS.	ANTIDOTES.
1. ACIDS— (1) Sulphuric. Hydrochloric Nitric.	1. Soda or Potash Bicarb., magnesia, chalk, or whiting, or whitewash scraped off wall, in water. Soap, milk, eggs, olive or almond oil.
(2) Oxalic. Tartaric. Acetic.	1. Give freely charcoal, whiting, or whitewash scraped off ceiling or wall, in water.
2. ACONITE— Aconitine. "Neuraline."	1. Stomach tube, or 3 or more tabloids of Zinc Sulphate in water, by mouth. 2. Sal Volatile or brandy. Strychnine. 3. Atropine, 1 tabloid hypodermically; if no improvement, Digitalin tabloid. 4. Nitrite of Amyl, to be inhaled freely.
3. ALKALIES— Caustic Potash. Lime or Ammon.	1. Vinegar, lemon juice, or other dilute acids, milk, and oil.
4. ANTIMONY— Tartar Emetic	1. Stomach tube, to wash out stomach. 2. Tannin, 5 or 6 tabloids in warm water. 3. Sal Volatile, frequently if collapse; also Strychnine and Digitalin tabloids. 4. Morph. tabloid after acute symptoms. 5. Demulcents, as milk and white of egg.
5. ARSENIC— Fowler's Solution.	1. Stomach tube, to wash out stomach. 2. Dialysed Iron, 2 oz., repeated often. 3. Sal Volatile, repeated. Demulcents. 4. Morph. tabloid, after acute symptoms. Enemeta peptonised with Zymine.
6. BELLADONNA— Atropine.	1. Zinc tabloids or stomach tube. 2. Pilocarpine hypodermic tabloids. 3. Caffein, 1 tabloid hypodermically. 4. Physostigmine (cautiously).
7. BELLADON. AND ACONITE.	As above, with Amyl Nitrite inhalations.
8. CANTHARIDES.	1. Apomorph., 1 tabloid hypodermically. 2. Demulcents. <i>Avoid fats and oils.</i> 3. Morphine, 1 tabloid hypodermically.
9. CARBOLIC ACID, Blistering Fluid.	1. Zinc Sulphate, 3 tabloids in water. 2. Stomach tube, use cautiously; introduce Epsom Salts or any Sulphates. 3. Saccharated lime, eggs, and milk. 4. Caffein. Amyl Nitrite inhalations.
10. CHLORAL— Syrup of Chloral.	1. Zinc tabloids, or stomach tube. 2. Strychnine tabloid hypodermically; repeat if necessary. Rouse patient. 3. Amyl Nitrite inhalations frequently. 4. Caffein tabloid. <i>Keep patient warm.</i>



POISONS.	ANTIDOTES.
11. DIGITALIS.	1. Apomorph., 1 tabloid hypodermically. 2. Tannin, 3 or more tabloids in water. 3. Aconitin, 1 tabloid hypodermically. 4. Sal Volatile frequently. Maintain decubitus.
12. HYDRARG. PERCHLOR— Corro. Sublimate.	1. White of egg freely; then wash out stomach. Demulcents. Morphine tabloids if needed.
13. HYDROCYANIC ACID— Prussic Acid. Potass. Cyanide.	1. Sal Volatile (and Atropine tabloids). 2. Artificial respiration, alternate cold and warm affusions to spine. Ether subcutaneously.
14. NUX VOMICA— Strychnine.	1. Apomorph., 1 tabloid hypodermically. 2. Tannin, 5 or 6 tabloids in hot water. 3. Chloral, 3 tabloids, and Bromide of Potassium, 6 tablets dissolved together in hot water repeatedly. 4. Nitrite of Amyl inhalations frequently. 5. Curare tabloid, $\frac{1}{2}$ gr. hypodermically.
15. MUSHROOMS— (Poisonous.)	1. Three Zinc tabloids or more in water. 2. Atropine tabloid hypodermically. 3. Stimulants and Castor Oil.
16. OPIUM— Laudanum. Morphine.	1. Apomorphine tabloid hypodermically. 2. Atropine, 2 tabloids hypodermically. 3. Caffein tabloids hypodermically. 4. Amyl Nitrite inhalations. <i>Artificial respiration. Galvanism.</i>
17. OPIUM AND BELLADON.	1. Apomorphine, 1 hypodermic tabloid. 2. Caffein tabloid hypodermically. 3. Nitrite of Amyl inhalations.
18. OPIUM AND CHLORAL.	1. Apomorphine, 1 hypodermic tabloid. 2. Sal Volatile, a tea-spoonful in water. 3. Atropine, 2 tabloids hypodermically. 4. Strychnine, 1 tabloid hypodermically, repeated. 5. Caffein tabloid hypodermically.
19. PHOSPHORUS— Rat Paste.	1. Copper. Zinc, 3 or 4 tabloids in water by mouth. <i>Avoid fats and oils.</i> 2. <i>French Oil of Turpentine</i> , half a drachm by mouth every half-hour. 3. Morphine tabloid afterwards.
20. PHYSOSTIGMA. Calabar Bean.	1. Apomorphine, 1 hypodermic tabloid. 2. Atropine, 1 tabloid hypodermically every quarter of an hour. 3. Chloral, 1 tabloid in water every quarter of an hour. 4. Strychnine, 1 hypodermic tabloid.



The Firm just mentioned also issue the following

## EASY AND RAPID TESTS FOR POISONS.

POISONS.	CHEMICAL TEST.
1. ARSENIC  AND	Pour a little of the liquid into test-tube, and one-third fill with Hydroch. Acid; add copper-foil and gently boil for say, fifteen seconds. These metals if present will coat the metal grey or black.
2. HYDRARG. PERCHLOR.	Remove the copper-foil, wash with water, and dry with filter paper and gentle heat; then cut off small strips, put in reduction tube and heat. Vapours will rise and condense on the cooler portion of tube. Examine microscopically: Octohedral crystals, arsenious acids; globules, mercury. (To detect Hg. in pill rub on penny.)
3. ANTIMONY—  Tartar Emetic.	Pour fluid into test-tube, with one-fifth as much Hydroch. Acid, and add copper strip. A little antimony will turn it red, more grey, or black. When the strips are heated in reduction tube they do not give octohedral crystals like arsenic, or globules like mercury, but an amorphous powder.  SPECIAL NOTE.—A little tartar emetic heated on slip of platinum-foil perforates it at once. Identify the <i>metal</i> as above.
4. COPPER.	Slightly acidify solution with sulphuric acid, and introduce a polished needle. Copper, if present, will coat needle at once.
5. PHOSPHORUS— Rat Paste.	Fill a flask about one-third full with the liquid, slightly acidified with sulphuric acid. Introduce the short arm (with cork on) of double bent tube, and let long arm dip into a vessel of water. Heat the flask in dark room. Phosphorus would be rendered visible as a bright flash on dropping water on to tube from sponge.
6. HYDROCYANIC ACID— Potass. Cyanide.	Turn into Prussian blue by adding caustic potash, iron sulphite and nitric acid.



POISONS.	CHEMICAL TEST.
7. CARBOLIC ACID.	Carbolic acid gives purple with iron perchloride.
8. CHLORAL— Syrup of Chloral.	Convert into chloroform by heating with potash (KHO).
9. NUX VOMICA. Strychnine.	Strychnine gives purple with sulphuric acid and bichromate of potassium.  The brucine in nux vomica strikes a permanent blood-red with strong nitric acid, which distinguishes it from morphine.
10. MINERAL ACIDS.	Sulphuric gives a red colour with veratrine or salycin; hydrochloric, a white precipitate with silver nitrate; and nitric acid, an orange colour with morphine.
11. OXALIC ACID.	Disappears on heating.
12. OPIUM— Laudanum. Morphine.	<i>Opium.</i> —Meconic Acid gives a blood-red colour with ferric chloride not bleached by corrosive sublimate; it is thereby distinguished from sulphocyanide.  <i>Morphine.</i> —Ferric chloride gives a blue colour, which fades; nitric acid gives an orange, also fading.

**APPARATUS REQUIRED.**—Spirit lamp, shallow platinum dish test tubes, reduction tubes, flasks (2 6-oz.), glass tubes like an inverted U, with one arm short and fitted in perforated cork for flask.

**CHEMICALS REQUIRED FOR TESTING METALS ABOVE.**—Hydroch. and Sulphuric Acids, Ammon. Sol., strips copper. tinfoil, and zinc, polished needle.



## ANTAGONISM OF DRUGS.

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Aconitine...	...	...	Atropin, Digitalin, or Strychnine.
Alcohol	...	...	Strychnine.
Ammonium Chloride	...	...	Chloral.
Atropin	...	...	Aconitin, Chloral-hydrate, Prussic Acid, Pilocarpine, Morphine, Physostigmine, Pilocarpine, and Quinine.
Chloral	...	...	Ammonia Chloride, Atropine, Colaborine, Carbolic Acid, Codeine, Physostigma, Picrotoxine, and Strychnine.
Chloroform	...	...	Amyl Nitrite.
Cocaine	...	...	Morphine.
Codeine	...	...	Chloral.
Digitalin	...	...	Aconitin.
Gelsemium	...	...	Opium, Atropine.
Morphine	...	...	Atropine, Caffein, Chloroform, Cocaine, Hyoscyamine, Nicotine, Physostigmine.
Opium	...	...	Atropine, Gelsemium, and Veratrum Viride.
Physostigmine	...	...	Atropin, Chloral, Morphine.
Strychnine	...	...	Alcohol, Chloral, Hydrocyanic Acid, Nicotine, and Amyl Nitrite.

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## POISONOUS FUNGI.

To distinguish between edible and poisonous fungi the following table has been drawn up by Bentley in his "Outlines of Botany"—

EDIBLE.	POISONOUS.
1. Grow solitary, in dry, airy places.	1. Grow in clusters in woods, and dark damp places.
2. Generally white on top, and brownish underneath.	2. Usually with bright colours.
3. Have a compact, brittle flesh.	3. Flesh tough, soft and watery.
4. Do not change colour when cut, by the action of the air.	4. Acquire a brown, green or blue tint when cut and exposed to the air.
5. Juice watery.	5. Juice often milky.
6. Odour agreeable.	6. Odour commonly powerful and disagreeable.
7. Taste not bitter, acrid salt or astringent.	7. Have an acid astringent, acrid salt or bitter taste.
8. Outside skin easily peeled off.	8. Outside skin cannot be easily peeled off.



# METHOD OF ARTIFICIAL RESPIRATION,

RECOMMENDED FOR RESTORING

## APPARENTLY DROWNED PERSONS,

BY

### DR. BENJAMIN HOWARD.

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1.—*Instantly* turn patient downwards, with a large firm roll of clothing under stomach and chest. Place one of his arms under his forehead, so as to keep his mouth off the ground. Press with all your weight two or three times, for four or five seconds each time, upon patient's back, so that the water is pressed out of lungs and stomach, and drains freely out of mouth. Then :

2.—*Quickly* turn patient, face upwards, with roll of clothing under back, just below shoulder blades, and make the head hang back as low as possible. Place patient's hand above his head. Kneel with patient's hips between your knees, and fix your elbows firmly against your hips. Now—grasping lower part of patient's naked chest—squeeze his two sides together, pressing *gradually* forward with all your weight, for about three seconds, until your mouth is nearly over mouth of patient ; then, with a push, *suddenly* jerk yourself back. Rest about three seconds ;—then, begin again, repeating these bellows-blowing movements with perfect regularity so that foul air may be pressed out, and pure air be drawn into lungs, about eight or ten times a minute, for, at least, one hour, or until patient breathes naturally.

*Note.*—The above directions must be used on the spot, the first instant the patient is taken from the water. A moment's delay—and success may be hopeless. Prevent crowding around patient ; plenty of fresh air is important. Be careful not to interrupt the first short natural breaths. If they be long apart, carefully continue between them the bellows-blowing movements as before. After breathing is regular, let patient be rubbed dry :—wrapt in warm blankets—take hot spirits and water in small occasional doses, and then be left to rest and sleep.



# THE READY METHOD IN SUSPENDED RESPIRATION FROM DROWNING, &c.

BY THE LATE

DR. MARSHALL HALL.

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Treat the patient instantly, on the spot, in the open air, exposing the face and chest to the breeze (except in severe weather).

1.—To CLEAR THE THROAT—Place the patient gently on the face, with one wrist under the forehead. If there be breathing—wait and watch; if not, or if it fail—

2.—To EXCITE RESPIRATION—Turn the patient well and instantly on his side, and excite the nostrils, the throat, &c. and dash cold water on the face previously rubbed warm. If there be no success, lose not a moment, but instantly—

3.—To IMITATE RESPIRATION—Replace the patient on his face, raising and supporting the chest well on a folded coat or other article of dress; turn the body very gently on the side and a little beyond, and then briskly on the face, alternately—repeating these measures deliberately, efficiently, and perseveringly fifteen times in the minute, occasionally varying the side. When the prone position is resumed make equable but efficient pressure, with brisk movement, along the back of the chest, removing it immediately before rotation on the side.

4.—To INDUCE CIRCULATION AND WARMTH—Meantime rub the limbs upwards, with firm grasping pressure, and with energy, using handkerchiefs, &c. Let the limbs be thus warmed and dried, and then clothed, each bystander supplying a coat, a waistcoat, &c. Avoid the continuous warm bath, and the position on or inclined to the back.

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## DR. SYLVESTER'S METHOD OF PRODUCING ARTIFICIAL RESPIRATION.

Place the patient on his back, raise both his arms above his head, hold them there for a second or two, and then bring them down to the sides of the chest again with some degree of pressure; after the lapse of two or three seconds repeat the process.



## SANITARY DEPARTMENT, LOCAL GOVERNMENT BOARD

Medical Officer—Dr. BUCHANAN, *Whitehall*.RULES FOR THE PREVENTION OF  
INFECTIOUS DISEASES.*Extracted from the Code of Rules drawn up by the  
Medical Officers of Schools for the Prevention of  
Infectious and Contagious Diseases.*

## AFTER EXPOSURE TO THE INFECTION OF

1.—DIPHTHERIA,	a person should undergo 12 days quarantine.
2.—SCARLET FEVER	" " 14 "
3.—MEASLES	" " 16 "
4.—GERMAN MEASLES, } OR ROSEOLA	" " 16 "
5.—CHICKEN-POX	" " 18 "
6.—SMALL-POX	" " 18 "
7.—MUMPS	" " 24 "
8.—WHOOPIING COUGH	" " 21 "

A person who has had an Infectious Disease, and whose clothes and body have been thoroughly disinfected, may return home or to school after the following intervals:—

SCARLET FEVER	... 6 weeks from the date of the rash, if all peeling has ceased and there is no sore throat.
MEASLES	... 3 weeks from the date of the rash, if peeling and cough have ceased.
GERMAN MEASLES, OR ROSEOLA	... } 2 or 3 weeks.
SMALL-POX	... } When every scab has fallen off.
CHICKEN-POX	... }
WHOOPIING COUGH	... 6 weeks from beginning of the whoop—provided the spasmodic cough and whoop have ceased.
DIPHTHERIA	... 3 weeks after convalescence—provided there is no discharge from throat, nose, eyes, ears, &c., and no albuminuria.
MUMPS...	... 4 weeks from the commencement, if all swelling has subsided.

## THE MEANS NECESSARY TO BE TAKEN

## FOR PREVENTING THE SPREAD OF ZYMOTIC DISEASE.

Whenever infectious disease of any kind makes its appearance, a careful survey should be made of the premises where it exists; enquiry should be made as to the ventilation, drainage, milk, and water supply, and care should be taken to ascertain that the last mentioned is not contaminated by infiltrations from water-closets, dust-bins, manure-heaps, &c. Information should also be obtained as to the number of persons occupying each room, and the means taken for separating



the healthy from the sick. If there is insufficient accommodation for the sick, they should be removed to a hospital in one of the public conveyances which are kept especially for the purpose, and the house and all things in it should undergo a thorough cleansing and disinfecting. The Sanitary Act of 1866 provides, amongst other things, for the prosecution of those who—

- I.—Use public conveyances while suffering under contagious or infectious disorders.
- II.—Knowingly convey such people in any public conveyance.
- III.—Wilfully expose themselves in any street, &c.
- IV.—Knowingly let a house or part in which any person has been suffering from any contagious or infectious disorder, without having had it and all the articles in it thoroughly disinfected.
- V.—Knowingly and without notice send out of the house articles of clothing to be washed.
- VI.—Knowingly mix or wash infected articles of clothing with those belonging to healthy persons.

In order to prevent the spread of zymotic disease from house to house, it is necessary in all cases to provide for—

- I.—Complete separation of the sick and those in attendance from those who are in health.
- II.—Disinfection of the sick-room and all articles in it, both during its occupation and after the removal of the patient.
- III.—Disinfection of the secretions.
- IV.—Thorough ventilation.

In the first place, then, the patient should be moved into a separate apartment near the top of the house, with the nurse who is to be in attendance. All curtains, bed furniture, carpets, &c. should be removed prior to its occupation, and no person should be allowed to enter the room except the medical attendant. Outside the door a sheet should be hung, thoroughly soaked with a solution of carbolic acid, and the nurse should never pass this under any circumstances whatever. All articles of food should be placed under the sheet, and not taken in by the nurse till the servant has gone away. Inside the apartment, disinfection should be carried out by means of sprinkling sulphur on a live coal two or three times a day, and wafting the fumes all around, till sneezing and a feeling of suffocation are produced. By the bedside a basin should be placed for the patient to spit into, containing a solution of carbolic acid. Rags should be used for wiping the nose, &c., and should be burnt immediately afterwards. All soiled bed-linen should be placed in a solution of the acid as it is removed. Discharges from the bowels and kidneys should be disinfected by the same means; and all plates, dishes, glasses, &c. should be washed in boiling water, and thoroughly cleansed with Condy's fluid or chloralum before leaving the room. As soon as the patient is perfectly recovered, he should wash the body thoroughly over with carbolic acid soap. He should then pass out of the door quite naked, and wrap himself in a fresh blanket, which has been left on the outside. In this way he may pass into another room and dress, and then he may safely mix with the other members of the household. The nurse should act in the same way; but before leaving the room she should see that all the linen articles are placed in a solution of carbolic acid, and that the other things are hung upon lines, in order that they may undergo a thorough fumigation. She should next place an old saucepan, containing some hot coals and sulphur, in the middle of the room, and then make her exit, taking care



to close the door after her. At the expiration of twenty-four or forty-eight hours the windows should be thrown open, and disinfection may be said then to be complete.

These rules should be carried out in the case of all infectious diseases; but certain other precautions are necessary to be adopted peculiar to the particular disease we are called upon to treat. For instance, in the case of *scarlatina*, the floor should be scrubbed daily with carbolised water, and as soon as there is the slightest appearance of peeling, the patient should be thoroughly oiled all over night and morning with carbolised oil, till all peeling has ceased. If well and strong enough, he should have a warm bath every third night. When the skin is perfectly clear, he may, after taking a bath, pass, in the manner directed, into another room and dress, and then mix with the other members of the household.

The chief thing to fear in these cases is the thin skin which peels off from the various parts of the body, and floats about imperceptibly in the air. The oiling process and disinfection, if strictly attended to, entirely prevent the spread of the disease.

In order to prevent the spread of *small-pox*, it is necessary on its very first appearance, to vaccinate all in the same house, and, if other cases occur, all in the neighbourhood. The patient should not be allowed to leave his room till all appearance of suppuration has passed away. All articles of bed furniture and clothes that have been worn should be burnt as soon as the case is well. Keeping the apartment dark is of great use in lessening the formation of matter, and so the spread of the disease. Ventilate freely.

In *enteric fever*, the chief thing one has to do is to see that the secretions are thoroughly disinfected, for it is by this means chiefly that the disease propagates itself. Care must be also taken whenever there is the slightest tendency to a relapse.

To prevent the spread of *typhus fever* and *diphtheria*, it is absolutely essential there should be strict isolation and thorough fumigation, as the power of infection in these cases is exceedingly great.

In *cholera*, it is the breath, vomit, and stools that are so particularly infectious; but the disease spreads mostly by the drinking of contaminated water. The stools, therefore, should be thoroughly disinfected, and care should be taken that they are not thrown into any place where they are likely to come in contact with the drinking water.

## MANAGEMENT OF NURSES.

Every nurse should be provided with two tin boxes, and each box should contain a complete change of clothing. One of these, with a permanent distinctive mark upon it, should be placed in a spare room quite unconnected with the infected ones directly it enters the house; the other should, of course, go to the room which the nurse is to occupy during the continuance of the illness. In this way the nurse, after leaving all her infected clothing behind in a solution of phenyl, creolin, or carbolic acid, can, after bath and wrapping herself in a clean blanket, which has been placed down outside the sheet, go into the uninfected room and dress in perfectly fresh clothing. Going back to the infected rooms after they have been once left should be strictly forbidden, or at any rate till they have been properly dealt with.

## SANITARY ASSOCIATIONS.

SANITARY ASSURANCE ASSOCIATION, 5, Argyle Place, Regent Street, W.

SANITARY PROTECTION ASSOCIATION, 1, Adam Street, Adelphi.

HEALTH CORPORATION, 37, Great George Street, Westminster  
(to assist the poor in obtaining healthier homes).



## THE INFECTIOUS DISEASES NOTIFICATION ACT (1889).

Where this Act is in force, every medical man called to visit a person suffering from smallpox, scarlatina, typhus, enteric, relapsing, continued or puerperal fever, cholera, diphtheria, membranous croup, or erysipelas, (other infectious diseases may be included by order of the local authority,) must at once send a certificate to the Medical Officer of Health, giving the name and address of the person and also the nature of the disease. For this he will be entitled to a fee of 2s. 6d. A medical officer of health attending upon a private patient will be entitled to the same fee. A fine of 40s. may be imposed for neglect.

Forms are provided by the local authority.

The Act applies to vessels, tents, and sheds.

### INQUIRIES NECESSARY FOR FINDING OUT THE ORIGIN OF EPIDEMIC DISEASE.

1. Contact with infected person.

2. State of house—

*Proper disconnection from the house-drain of the following waste-pipes:—*

(A) Bath.

(B) Cistern supplying drinking water.

(C) Lavatory.

(D) Rain-water Pipe.

(E) Sink on landing.

(F) Scullery.

*Water-closet.*—See that the now obsolete retainer or D trap does not exist below the pan.

*Soil-pipe.*—Should run down outside the house; if inside, see that it is perfect, and ventilated.

*House-drain.*—Should be trapped and ventilated. See that it does not run under the house; but if it does, see that it is laid in concrete. See also that the top of the ventilating shaft is not close to either a window or chimney.

3. *Water Supply.*—See that there is no leakage either of sewage or gas into the cistern, and that no dead animal has fallen into it. *If there is a well,* see there is no leakage from manure heaps, cesspools or drains.

4. *Milk.*—See whether it has been standing near a dust-bin, drain, or some decomposing animal matter. See that there is no infection in dairy premises or among the work-people. See that the water used for washing the cans is uncontaminated. See also that the air where the milk is stored is perfectly pure and fresh. Enquire as to state of health of the cows.

### DISINFECTORS AND CHEMICAL PURIFIERS.

W. G. LACY, Kingford Road, Wandsworth. S.W.

ARMFIELD & SONS, 15, Lower Belgrave Street. S.W.

S. WHITFIELD, Senr., Viaduct Works, Oxford Street, Birmingham.

### PRIVATE AMBULANCES, FOR INFECTIOUS CASES.

BOWDEN, 9 and 10, Silver Street, close to Notting Hill Gate Station.

### CONVALESCENT HOSPITALS FOR INFECTIOUS DISEASE

*Vide page 112.*



LIST OF  
PHYSICIANS AND SURGEONS  
ATTACHED TO THE CHIEF  
LONDON GENERAL HOSPITALS.

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ST. BARTHOLOMEW'S HOSPITAL.

41-54, *West Smithfield, E.C.*

CONSULTING PHYSICIANS.

Dr. R. Martin, 51, Queen Anne Street, Cavendish Square.  
Dr. Andrew, 22, Harley Street.

CONSULTING SURGEON.

Sir James Paget, Bart., Harewood Place, Hanover Square.

PHYSICIANS.

Dr. Church, 130, Harley Street.  
Dr. Gee, 31, Upper Brook Street, Grosvenor Square.  
Sir Dyce Duckworth, 11, Grafton Street, Piccadilly.  
Dr. Hensley, 4, Henrietta Street, Cavendish Square.

OBSTETRIC PHYSICIAN.

Dr. Champneys, 60, Great Cumberland Place, Hyde Park.

ASSISTANT OBSTETRIC PHYSICIAN.

Dr. Godson, 9, Grosvenor Street.

ASSISTANT PHYSICIANS.

Dr. Brunton, 10, Stratford Place.  
Dr. Moore, St. Bartholomew's Hospital.  
Dr. S. West, 15, Wimpole Street, Cavendish Square.

SURGEONS.

William S. Savory, 66, Brook Street.  
Thomas Smith, 5, Stratford Place.  
Alfred Willett, 36, Wimpole Street.  
John Langton, 2, Harley Street.  
W. Marrant Baker, 26, Wimpole Street.

ASSISTANT SURGEONS.

Howard Marsh, 30, Bruton Street, Berkeley Square.  
H. Trentham Butlin, 82, Harley Street.  
William J. Walsham, 27, Weymouth Street, Portland Place.  
W. H. Cripps, 2, Stratford Place, Oxford Street.  
W. B. Clarke, 46, Harley Street.

OPHTHALMIC SURGEONS.

Henry Power, 37a, Great Cumberland Place.  
B. J. Vernon, 14, Clarges Street, Piccadilly.

AURAL SURGEON.

A. E. Cumberbatch, 17, Queen Anne Street.

CASUALTY PHYSICIANS.

Dr. Habershon, 2, Upper Wimpole Street.  
Dr. Tylden, 38, Harewood Square.  
Dr. Calvert, 36, Queen Anne Street.

DENTAL SURGEONS.

F. Ewbank, 24, Queen Anne Street, Cavendish Square.  
W. B. Paterson, 64, Brook Street, Grosvenor Square.



**CHARING CROSS HOSPITAL.**

*Agar Street, West Strand, W.C.*

**CONSULTING PHYSICIANS.**

Sir J. Fayrer, 53, Wimpole Street, Cavendish Square.  
Sir Guyer Hunter, 21, Norfolk Crescent, Hyde Park.

**CONSULTING SURGEON.**

Mr. Richard Barwell, 55, Wimpole Street, Cavendish Square  
**PHYSICIANS.**

Dr. Green, 74, Wimpole Street.  
Dr. Bruce, 70, Harley Street, Cavendish Square.  
Dr. Abercrombie, 23, Upper Wimpole Street.

**ASSISTANT PHYSICIANS.**

Dr. Lubbock, 19, Grosvenor Street.  
Dr. H. M. Murray, 27, Savile Row.  
Dr. Willcocks, 14, Mandeville Place, Manchester Square.  
Dr. Mott, 62, Chandos Street, Charing Cross.

**OBSTETRIC PHYSICIAN.**

Dr. J. Watt Black, 15, Clarges Street, Piccadilly.

**ASSISTANT OBSTETRIC PHYSICIAN.**

Dr. Amand Routh, 6, Upper Montagu St., Montagu Square.

**PHYSICIAN FOR SKIN DISEASES.**

Dr. Sangster, 6, Savile Row.

**PHYSICIAN FOR DISEASES OF THE THROAT.**

Dr. Willcocks, 14, Mandeville Place, Manchester Square.

**ELECTRICAL PHYSICIAN.**

Dr. H. M. Murray, 27, Savile Row.

**SURGEONS.**

J. A. Bloxam, 8, George Street, Hanover Square.  
S. Boyd, 27, Gower Street, Bedford Square.  
J. H. Morgan, 68, Grosvenor Street.

**ASSISTANT SURGEONS.**

A. M. Shield, 20, Stratford Place, Oxford Street.  
B. Wainewright, 4, Harley Street.  
Dr. Waterhouse.

**DENTAL SURGEON.**

J. Fairbank, 18, George Street, Hanover Square.

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**GREAT NORTHERN CENTRAL HOSPITAL.**

*Holloway Road, N.*

**PHYSICIANS.**

Dr. Cholmeley, 63, Grosvenor Street.  
Dr. Syers, 3, Devonshire Street, Portland Place.  
Dr. Galloway.  
Dr. Burnet, 6, Upper Wimpole Street.  
Dr. Beale, 22, Upper Berkeley Street.  
Dr. Beevor, 33, Harley Street.

**OBSTETRIC PHYSICIAN.**

Dr. Griffith, 114, Harley Street.

**PHYSICIAN FOR SKIN DISEASES.**

Dr. Cook, Nottingham Terrace, York Gate, Regent's Park.



**SURGEONS.**

W. Adams, 5, Henrietta Street, Cavendish Square.  
J. Macready, 51, Queen Anne Street.  
C. B. Lockwood, 19, Upper Berkeley Street.  
H. W. Allingham, 25, Grosvenor Street.

**OPHTHALMIC SURGEON.**

A. S. Morton, 26, Weymouth Street, Portland Place.

**AURAL SURGEON.**

W. R. H. Stewart, 41, Devonshire Street, Portland Place.

**SURGEON FOR THROAT DISEASES.**

W. S. Watson, 7, Henrietta Street, Cavendish Square.

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**GUY'S HOSPITAL.**

*St. Thomas' Street, Borough, S.E.*

**CONSULTING PHYSICIANS.**

Dr. Pavy, 35, Grosvenor Street.  
Dr. Wilks, 72, Grosvenor Square.

**CONSULTING OBSTETRIC PHYSICIANS.**

Dr. Oldham, 4, Cavendish Place.  
Dr. Hicks, 24, George Street, Hanover Square.

**CONSULTING SURGEONS.**

E. Cock, Dean Street, and St. Thomas' Street.  
J. Birkett, 62, Green Street, Grosvenor Square.  
T. Bryant, 65, Grosvenor Street.

**PHYSICIANS.**

Dr. Pye-Smith, 54, Harley Street.  
Dr. Taylor, 11, St. Thomas' Street.  
Dr. Goodhart, 25, Weymouth Street, Portland Place.  
Dr. Hale White, 65, Harley Street.

**ASSISTANT PHYSICIANS.**

Dr. Pitt, 10, St. Thomas' Street.  
Dr. Perry.  
Dr. Shaw, 15, St. Thomas' Street.  
Dr. Washbourn, 14, St. Thomas' Street.

**OBSTETRIC PHYSICIAN.**

Dr. Galabin, 49, Wimpole Street, Cavendish Square.

**ASSISTANT OBSTETRIC PHYSICIAN.**

Dr. Horrocks, 9, St. Thomas' Street.

**PHYSICIAN FOR SKIN DISEASES.**

Dr. Perry.

**SURGEONS.**

Arthur E. Durham, 82, Brook Street.  
H. G. Howse, 59, Brook Street, Grosvenor Square.  
J. N. C. Davies-Colley, 36, Harley Street.  
R. C. Lucas, 18, Finsbury Square.

**ASSISTANT SURGEONS.**

W. A. Lane, 14, St. Thomas' Street.  
C. H. Golding-Bird, 13, St. Thomas' Street.  
W. H. A. Jacobson, 41, Finsbury Square.  
C. J. Symonds, 26, Weymouth Street, Portland Place.

**AURAL SURGEON.**

Dr. Purves, 20, Stratford Place, Oxford Street.



**CONSULTING OPHTHALMIC SURGEON.**

Charles Bader, 10, Finsbury Circus.

**OPHTHALMIC SURGEON.**

Charles Higgins, 38, Brook Street, Grosvenor Square.

**ASSISTANT OPHTHALMIC SURGEON.**

Dr. Brailey, 11, Old Burlington Street, Old Bond Street.

**DENTAL SURGEON.**

F. Newland Pedley, 32, Devonshire Place.

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**KING'S COLLEGE HOSPITAL.**

*Portugal St., W.C., and 23-32, Carey St., Lincoln's Inn, W.C.*

**CONSULTING PHYSICIANS.**

Dr. Priestley, 17, Hertford Street, Mayfair.

Sir A. B. Garrod, 10, Harley Street.

Dr. Johnson, 11, Savile Row.

**PHYSICIANS.**

Dr. Beale, 61, Lower Grosvenor Street.

Dr. Duffin, 18, Devonshire Street, Portland Place.

Dr. Yeo, 44, Hertford Street, Mayfair.

Dr. Curnow, 3, George Street, Hanover Square.

Dr. Ferrier, 34, Cavendish Square.

**OBSTETRIC PHYSICIANS.**

Dr. Playfair, 31, George Street, Hanover Square.

Dr. Hayes, 17, Clarges Street, Mayfair.

**PHYSICIANS FOR OUT-PATIENTS.**

Dr. Ferrier, 34, Cavendish Square.

Dr. Curnow, 3, George Street, Hanover Square.

**ASSISTANT PHYSICIANS FOR OUT-PATIENTS.**

Dr. Tirard, 28, Weymouth Street, Portland Place.

Dr. Dalton, 18, Clement's Inn, Strand.

**SURGEONS.**

Sir J. Lister, Bart., 12, Park Crescent, Portland Place.

W. Rose, 50, Harley Street.

Wm. W. Cheyne, 59, Welbeck Street, Cavendish Square.

**ASSISTANT SURGEONS FOR OUT-PATIENTS.**

A. B. Barrow, 17, Welbeck Street, Cavendish Square.

A. Carless, 15, Stratford Place.

Dr. Burghard, 46, Weymouth Street.

**OPHTHALMIC SURGEON.**

Professor McHardy, 5, Savile Row.

**AURAL SURGEON.**

Dr. Pritchard, 3, George Street, Hanover Square.

**SURGEON-DENTIST.**

A. S. Underwood, 11, Bedford Square.



**LONDON HOSPITAL.**

*Whitechapel Road, E.*

**CONSULTING PHYSICIANS.**

Sir A. Clark, Bart., 16, Cavendish Square.  
Dr. Ramskill, 5, St. Helen's Place.  
Dr. Down, 81, Harley Street.

**CONSULTING SURGEONS.**

J. Hutchinson, 15, Cavendish Square.  
J. Couper, 80, Grosvenor Street.

**PHYSICIANS.**

Dr. Hughlings-Jackson, 3, Manchester Square.  
Dr. Sutton, 9, Finsbury Square.  
Dr. Fenwick, 29, Harley Street.  
Dr. Mackenzie, 26, Finsbury Square.  
Dr. Sansom, 84, Harley Street, Cavendish Square.  
Dr. Turner, 15, Finsbury Square.  
Dr. Gilbert-Smith, 68, Harley Street.  
Dr. Warner, 24, Harley Street.  
Dr. Ralfe, 26, Queen Anne Street, Cavendish Square.

**ASSISTANT PHYSICIANS.**

Dr. Anderson, 84, Wimpole Street, Cavendish Square.  
Dr. Kidd, 60, Brook Street, Grosvenor Square.

**SURGEONS.**

Warren Tay, 4, Finsbury Square.  
J. McCarthy, 15, Finsbury Square.  
F. Treves, 6, Wimpole Street, Cavendish Square.  
W. M. Moullen, 69, Wimpole Street.  
E. H. Fenwick, 5, Old Burlington Street.

**ASSISTANT SURGEONS.**

H. A. Reeves, 7, Grosvenor Street.  
F. S. Eve, 15, Finsbury Circus.  
J. Hutchinson, jun., 16, Finsbury Circus.  
T. H. Openshaw, 21, Gower Street.

**OBSTETRIC PHYSICIAN.**

Dr. Herman, 20, Harley Street, Cavendish Square.

**ASSISTANT OBSTETRIC PHYSICIAN.**

Dr. Lewers, 60, Wimpole Street, Cavendish Square.

**AURAL SURGEONS.**

E. Woakes, 78, Harley Street, Cavendish Square.  
T. M. Hovell, 3, Mansfield Street, Cavendish Square.

**OPHTHALMIC SURGEONS.**

W. Tay, 4, Finsbury Square.  
F. S. Eve, 15, Finsbury Circus.

**PHYSICIAN FOR SKIN DISEASES.**

Dr. S. Mackenzie, 26, Finsbury Square.

**SURGEON-DENTIST.**

A. W. Barrett, 42, Finsbury Square.

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**METROPOLITAN HOSPITAL.**

*Kingsland Road, E.C.*

**PHYSICIANS.**

Dr. Drysdale, 23, Sackville Street.  
Dr. Tooth, 34, Harley Street.  
Dr. Haig, 30, Welbeck Street.



ASSISTANT PHYSICIANS.

Dr. Browne, 6a, Bedford Square.  
Dr. Rolleston, 13, Upper Wimpole Street.  
Dr. Davies, 23, Finsbury Square.

SURGEONS.

E. J. Chance, 14, Russell Square.  
D. H. Goodsall, 17, Devonshire Place, Upper Wimpole Street.  
W. J. Walsham, 27, Weymouth Street, Portland Place.

ASSISTANT SURGEONS.

A. A. Bowlby, 43, Queen Anne Street.  
S. Paget, 57, Wimpole Street.

OBSTETRIC PHYSICIAN.

Dr. Gow, 49, Weymouth Street, Portland Place.

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MIDDLESEX HOSPITAL.

*Mortimer Street, W.*

CONSULTING PHYSICIAN.

Dr. Thompson, 53, Queen Anne Street.

CONSULTING SURGEONS.

A. Shaw, 136, Abbey Road.  
T. W. Nunn, 8, Stratford Place.

CONSULTING PHYSICIAN FOR SKIN DISEASES.

Dr. Liveing, 11, Manchester Square.

PHYSICIANS.

Dr. Cayley, 27, Wimpole Street, Cavendish Square.  
Dr. Coupland, 14, Weymouth Street, Portland Place.  
Dr. Powell, 62, Wimpole Street, Cavendish Square.  
Dr. Finlay, 9, Lower Berkeley Street.

PHYSICIAN FOR SKIN DISEASES.

Dr. Pringle, 35, Bruton Street, Berkeley Square.

ASSISTANT PHYSICIANS.

Dr. Fowler, 35, Clarges Street, Mayfair.  
Dr. Biss, 135, Harley Street, Cavendish Square.  
Dr. Pringle, 35, Bruton Street, Berkeley Square.  
Dr. Pasteur, 19, Queen Street, Mayfair.

PHYSICIAN-ACCOUCHEUR.

Dr. W. A. Duncan, 6, Harley Street.

ASSISTANT OBSTETRIC PHYSICIAN.

Dr. Boxall, 6, Chandos Street, Cavendish Square.

SURGEONS.

J. W. Hulke, 10, Old Burlington Street.  
G. Lawson, 12, Harley Street, Cavendish Square.  
H. Morris, 2, Mansfield Street, Portland Place.  
Andrew Clark, 19, Cavendish Place.

ASSISTANT SURGEONS.

A. Pearce Gould, 16, Queen Anne Street, Cavendish Square.  
J. B. Sutton, 22, Gordon Street, Gordon Square.

OPHTHALMIC SURGEON.

W. Lang, 26, Upper Wimpole Street.

AURAL SURGEON.

A. Hensman, 31, Harley Street, Cavendish Square.

DENTAL SURGEON.

W. C. S. Bennett, 17, George Street, Hanover Square.

ASSISTANT DENTAL SURGEON.

W. Hern, 18, Stratford Place.



**ROYAL FREE HOSPITAL.**

*Gray's Inn Road.*

**PHYSICIANS.**

Dr. Sainsbury, 63, Welbeck Street.  
Dr. West, 15, Wimpole Street.

**CONSULTING SURGEON.**

W. Rose, 50, Harley Street.

**ASSISTANT PHYSICIANS.**

Dr. Andrewes.  
H. W. G. Mackenzie, M.B.  
Dr. Calvert, 86, Queen Anne Street.

**SURGEONS.**

F. J. Gant, 16, Connaught Square.  
A. B. Barrow, 17, Welbeck Street.

**ASSISTANT SURGEONS.**

Jas. Berry, 60, Welbeck Street.  
W. H. Battle, 6, Harley Street.  
H. W. Dodd, 47, Kensington Park Gardens.

**PHYSICIAN FOR DISEASES OF WOMEN.**

Dr. Hayes, 17, Clarges Street, Mayfair.

**OPHTHALMIC SURGEON.**

J. G. Mackinlay, 15, Stratford Place.

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**ST. GEORGE'S HOSPITAL.**

*Hyde Park Corner, S.W.*

**CONSULTING PHYSICIANS.**

Sir H. Pitman, 28, Gordon Square.  
Dr. Ogle, 30, Cavendish Square.  
Dr. Wadham, 14, Park Lane, Hyde Park.

**CONSULTING SURGEONS.**

H. Lee, 9, Savile Row.  
G. D. Pollock, 86, Grosvenor Street.  
T. Holmes, 18, Great Cumberland Place, Hyde Park.

**PHYSICIANS.**

Dr. Dickinson, 9, Chesterfield Street, Mayfair.  
Dr. Whipham, 11, Grosvenor Street, Grosvenor Square.  
Dr. Cavafy, 2, Upper Berkeley Street, Portman Square.  
Dr. Ewart, 33, Curzon Street, Mayfair.

**PHYSICIAN-ACCOUCHEUR.**

Dr. Dakin, 57, Welbeck Street.

**ASSISTANT PHYSICIANS.**

Dr. Owen, 5, Hertford Street, Mayfair.  
Dr. Penrose, 24, Clarges Street.

**SURGEONS.**

J. Rouse, 2, Wilton Street, Grosvenor Place.  
T. P. Pick, 18, Portman Street, Portman Square.  
J. W. Haward, 16, Savile Row.  
W. H. Bennett, 1, Chesterfield Street, Mayfair.

**ASSISTANT SURGEONS.**

G. R. Turner, 49, Green Street, Park Lane.  
C. T. Dent, 61, Brook Street.



OPHTHALMIC SURGEON.

R. Brudenell Carter, 27, Queen Anne Street.

ASSISTANT OPHTHALMIC SURGEON.

W. A. Frost, 17, Queen Anne Street.

AURAL SURGEON.

Sir W. B. Dalby, 18, Savile Row.

DENTAL SURGEON.

H. L. Albert, 49, Sloane Street.

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ST. MARY'S HOSPITAL.

*Cambridge Place, Paddington, W.*

CONSULTING PHYSICIANS.

C. R. Handfield-Jones, 24, Montagu Square.

Sir Edw. H. Sieveking, 17, Manchester Square.

CONSULTING SURGEONS.

H. Spencer Smith, 92, Oxford Terrace, Hyde Park.

J. R. Lane, 9, Matheson Road, West Kensington.

H. Walton, 1, Brook Street, Hanover Square.

PHYSICIANS.

Dr. Broadbent, 34, Seymour Street, Portman Square.

Dr. Cheadle, 19, Portman Street, Portman Square.

Dr. Lees, 22, Weymouth Street, Portland Place.

ASSISTANT PHYSICIANS.

Dr. Phillips, 21, Upper Berkeley Street, Portman Square.

Dr. Maguire, 4, Seymour Street, Portman Square.

Dr. Luff, 33, Westbourne Terrace, Hyde Park.

SURGEONS.

A. T. Norton, 101, Harley Street, Cavendish Square.

E. Owen, 49, Seymour Street, Portman Square.

H. Page, 146, Harley Street.

ASSISTANT SURGEONS.

W. Pye, 4, Sackville Street, Piccadilly.

A. J. Pepper, 13, Wimpole Street.

A. Q. Silcock, 101, Harley Street.

PHYSICIAN-ACCOUCHEUR.

Dr. Braxton Hicks, 24, George Street, Hanover Square.

ASSISTANT SURGEON-ACCOUCHEUR.

C. M. Handfield-Jones, 24, Montagu Square.

OPHTHALMIC SURGEONS.

G. A. Critchett, 21, Harley Street.

H. Juler, 77, Wimpole Street, Cavendish Square.

SURGEON FOR SKIN DISEASES.

Malcolm Morris, 8, Harley Street, Cavendish Square.

PHYSICIAN FOR DISEASES OF THE THROAT.

Dr. Scanes Spicer, Margravine Road, West Kensington.

AURAL SURGEON.

G. P. Field, 34, Wimpole Street, Cavendish Square.

DENTAL SURGEON.

Howard Hayward, 38, Harley Street.



**ST. THOMAS'S HOSPITAL.**

*Westminster Bridge Road, S.E., and Lambeth Palace Road, S.E.*

**CONSULTING PHYSICIANS.**

Dr. Barker, 109, Gloucester Place, Portman Square.  
Sir Risdon Bennett, 22, Cavendish Square.

**PHYSICIANS.**

Dr. Bristowe, 13, Old Burlington Street.  
Dr. Ord, 37, Upper Brook Street, Grosvenor Square.  
Dr. Harley, 9, Stratford Place.  
Dr. Payne, 78, Wimpole Street, Cavendish Square.  
Dr. Sharkey, 2, Portland Place.

**CONSULTING OBSTETRIC PHYSICIAN.**

Dr. Gervis, 40, Harley Street.

**OBSTETRIC PHYSICIAN.**

Dr. Cullingworth, 46, Brook Street.

**ASSISTANT OBSTETRIC PHYSICIAN.**

Dr. Cory, 73, Lambeth Palace Road.

**ASSISTANT PHYSICIANS.**

G. Gulliver, 16, Welbeck Street, Cavendish Square.  
Dr. Hadden, 21, Welbeck Street.  
Dr. Acland, 7, Brook Street.  
Dr. Hawkins.

**ASSISTANT PHYSICIAN FOR DISEASES OF THROAT.**

Dr. Semon, 39, Wimpole Street.

**SURGEONS.**

John Croft, 48, Brook Street, Grosvenor Square.  
Sir William MacCormack, 13, Harley Street.  
A. O. MacKellar, 22, George Street, Hanover Square.  
H. H. Clutton, 2, Portland Place.

**OPHTHALMIC SURGEON.**

Edward Nettleship, 5, Wimpole Street.

**ASSISTANT OPHTHALMIC SURGEON.**

J. B. Lawford, 6, Upper Wimpole Street.

**ASSISTANT SURGEONS.**

W. Anderson, 25, Grosvenor Road, Westminster.  
B. Pitts, 31, Harley Street, Cavendish Square.  
G. H. Makins, 2, Queen Street, Mayfair.

**ASSISTANT SURGEON FOR DISEASES OF THE EAR.**

C. A. Ballance, 56, Harley Street.

**DENTAL SURGEON.**

C. E. Truman, 23, Old Burlington Street.

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**UNIVERSITY COLLEGE HOSPITAL.**

*Gower Street, W.C.*

**CONSULTING PHYSICIANS.**

Dr. Walshe, 41, Hyde Park Square.  
Dr. G. C. J. Hare, 15, Manchester Square.  
Dr. J. Russell Reynolds, 38, Grosvenor Street.  
Sir Wm. Jenner, Bart., 63, Brook Street, Grosvenor Square.  
Dr. Graily Hewitt, 36, Berkeley Square.  
Dr. Gowers, 50, Queen Anne Street.



CONSULTING SURGEONS.

J. E. Erichsen, 6, Cavendish Place.  
Sir Henry Thompson, 35, Wimpole Street.  
G. A. Ibbetson, 34, Addison Gardens.

PHYSICIANS.

Dr. Ringer, 15, Cavendish Place.  
Dr. Bastian, 20, Queen Anne Street.  
Dr. Roberts, 102, Harley Street, Cavendish Square.  
Dr. Poore, 30, Wimpole Street.  
Dr. Barlow, 10, Wimpole Street.

ASSISTANT PHYSICIANS.

Dr. Money, 24, Harley Street.  
Dr. Bradford, 30, Blomfield Street, Upper Westbourne Terrace.

OBSTETRIC PHYSICIAN.

Dr. Williams, 11, Queen Anne Street, Cavendish Square.

ASSISTANT OBSTETRIC PHYSICIAN.

Dr. Spencer, 60, Gower Street.

PHYSICIAN FOR SKIN DISEASES.

Dr. Crocker, 28, Welbeck Street, Cavendish Square.

SURGEONS.

Berkeley Hill, 66, Wimpole Street.  
Christopher Heath, 36, Cavendish Square.  
Marcus Beck, 30, Wimpole Street.  
A. E. Barker, 87, Harley Street.  
R. J. Godlee, 81, Wimpole Street, Cavendish Square.

ASSISTANT SURGEONS.

V. A. H. Horsley, 80, Park Street, Grosvenor Square.  
B. Pollard, 24, Harley Street.

OPHTHALMIC SURGEON.

J. Tweedy, 100, Harley Street.

DENTAL SURGEON.

S. J. Hutchinson, 64, Brook Street.

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WEST LONDON HOSPITAL.

*Hammersmith Road.*

PHYSICIANS.

Dr. Herringham, 22, Bedford Square.  
Dr. Hood, 43, Green Street, Park Lane.  
Dr. Drewitt, 52, Brook Street.

ASSISTANT PHYSICIANS.

Dr. Garrod, 9, Chandos Street, Cavendish Square.  
Dr. Ball, 29, Belgrave Road.  
Dr. Taylor, 16, Seymour Street.

PHYSICIAN FOR DISEASES OF THROAT & NOSE.

Dr. Ball, 54, Wimpole Street.

PHYSICIAN FOR DISEASES OF SKIN.

Dr. Drewitt, 52, Brook Street.

SURGEONS.

C. B. Keetley, 10, George Street, Hanover Square.  
F. S. Edwards, 93, Wimpole Street.  
W. B. Clarke, 46, Harley Street.

ORTHOPÆDIC SURGEON.

C. B. Keetley, 10, George Street, Hanover Square.

AURAL SURGEON.

S. Paget, 37, Wimpole Street.



ASSISTANT SURGEONS.

C. A. Ballance, 56, Harley Street.  
H. F. Weiss, 11, Hanover Square.  
Stephen Paget, 57, Wimpole Street.

PHYSICIAN FOR DISEASES OF WOMEN.

Dr. Venn, 27, George Street, Hanover Square.

ASSISTANT PHYSICIAN FOR DISEASES OF WOMEN.

Dr. Moullin, 69, Wimpole Street.

SURGEON FOR DISEASES OF THE EYE.

B. J. Vernon, 14, Clarges Street.

ASSISTANT SURGEON FOR DISEASES OF THE EYE.

H. P. Dunn, 11, Nottingham Place.

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WESTMINSTER HOSPITAL.

*Broad Sanctuary, S.W.*

CONSULTING SURGEON.

Barnard Holt, 14, Savile Row.

PHYSICIANS.

Dr. Sturges, 85, Wimpole Street.  
Dr. Allchin, 5, Chandos Street, Cavendish Square.  
Dr. H. Donkin, 108, Harley Street.

OBSTETRIC PHYSICIAN.

Dr. Potter, 20, George Street, Hanover Square.

ASSISTANT OBSTETRIC PHYSICIAN.

Dr. Grigg, 27, Curzon Street, Mayfair.

ASSISTANT PHYSICIANS.

Dr. Hall, 47, Wimpole Street.  
Dr. A. Hughes Bennett, 76, Wimpole Street.  
Dr. Murrell, 38, Weymouth Street, Portland Place.  
Dr. Hebb, 9, Suffolk Street, Pall Mall.

SURGEONS.

George Cowell, 3, Cavendish Place, Cavendish Square.  
R. Davy, 33, Welbeck Street.  
C. Macnamara, 13, Grosvenor Street.

ASSISTANT SURGEONS.

Thomas Cooke, 40, Brunswick Square.  
Thomas Bond, 7, The Sanctuary, Westminster.  
C. Stonham, 62, Welbeck Street.  
W. G. Spencer, 94, Wimpole Street.

AURAL SURGEON.

J. Black, 16, Wimpole Street, Cavendish Square.

OPHTHALMIC SURGEON.

George Cowell, 3, Cavendish Place, Cavendish Square.

ORTHOPÆDIC SURGEON.

R. Davy, 33, Welbeck Street.

SURGEON FOR SKIN DISEASES.

Dr. Colcott Fox, 14, Harley Street.

PHYSICIAN FOR THROAT DISEASES.

Dr. Hall, 47, Wimpole Street.

SURGEON-DENTISTS.

Dr. Walker, 22, Grosvenor Street.  
M. A. Smale, 80, Seymour Street, Hyde Park.



# TIMES OF ATTENDANCE FOR OUT-PATIENTS

## AT THE

## LONDON GENERAL HOSPITALS.

### ST. BARTHOLOMEW'S HOSPITAL.

*Medical Cases*—Daily, at 11 a.m.  
*Surgical Cases*—Daily, at 12.30 p.m.  
*Operation Days*—Monday, Tuesday, Wednesday, & Saturday,  
 at 1.30 p.m.  
 " " *Ophthalmic*—Tuesday & Thursday, at 2 p.m.  
 DISEASES OF WOMEN—Wednesday and Saturday, at 9 a.m.  
 " THE SKIN—Friday, at 1.30 p.m.  
 " " EYE—Wednesday, Thursday, and Saturday,  
 at 2.30 p.m.  
 " " EAR—Tuesday and Friday, at 2 p.m.  
 " " THROAT—Friday, at 2.30 p.m.  
 ORTHOPÆDIC CASES—Monday, at 2.30 p.m.  
 DENTAL CASES—Tuesday and Friday, at 9 a.m.  
 Out-patients applying for the first time are seen at  
 9 a.m. daily.

### CHARING CROSS HOSPITAL.

*Medical and Surgical Cases*—Daily, at 1 p.m.  
*Operation Days*—Wednesday, Thursday, and Friday, at 3 p.m.  
 DISEASES OF WOMEN—Tuesday and Friday, at 1.30 p.m.  
 " THE SKIN—Monday, at 1.30 p.m.  
 " " EYE—Daily, at 1 p.m.  
 " " THROAT AND EAR—Friday, at 9.30 a.m.  
 " " TEETH—Monday, Wednesday, and Friday,  
 at 9 a.m.

### ST. GEORGE'S HOSPITAL.

*Medical and Surgical Cases*—WOMEN—Monday and Tuesday,  
 at 11 a.m.  
 " " MEN—Friday and Saturday,  
 at 11 a.m.  
*Operation Day*—Thursday, 1 p.m.  
 " " *Ophthalmic*—Friday, 1.15 p.m.  
 DISEASES OF WOMEN—Thursday, at 1.30 p.m.  
 " THE SKIN—Wednesday, at 1.30 p.m.  
 " " EYE—Wednesday and Saturday, at 1.30 p.m.  
 " " EAR—Tuesday, at 1.30 p.m.  
 " " THROAT—Thursday, at 1.30 p.m.  
 ORTHOPÆDIC CASES—Wednesday, at 1.30 p.m.  
 DENTAL CASES—Tuesday and Saturday, at 9 a.m.

### GREAT NORTHERN CENTRAL HOSPITAL.

*Holloway Road.*

*Medical and Surgical Cases*—Monday, Tuesday, Thursday,  
 and Friday, at 2.30 p.m.  
*Operation Day*—Wednesday, at 2 p.m.  
 DISEASES OF THE SKIN—Wednesday, at 2.30 p.m.  
 " " EYE—Tuesday and Thursday, at 2.30 p.m.  
 " " EAR—Monday and Friday, at 2.30 p.m.  
 " " THROAT—Thursday, at 2.30 p.m.  
 " " TEETH—Wednesday, at 2 p.m.  
 " WOMEN AND CHILDREN.—Wednesday, at 2 p.m.



## GUY'S HOSPITAL.

*Medical Cases*—Monday, Wednesday, and Friday, at 12 noon.

*Surgical Cases*—Monday, Wednesday, Thursday, and Saturday, at 12.30 p.m.

*Operation Days*—Tuesday and Friday, at 1.30 p.m.

" " *Ophthalmic*—Monday and Thursday, at 1.30

DISEASES OF WOMEN—Thursday and Saturday, at 12 noon.

" THE SKIN—Tuesday, at 12 noon.

" " EYE—Tuesday and Friday, at 12 noon.

" " EAR—Tuesday, at 12 noon.

" " THROAT—Friday, at 12 noon.

" " TEETH—Daily, at 12 noon.

## KING'S COLLEGE HOSPITAL.

*Medical and Surgical Cases*—Daily, at 1.30 p.m.

*Operation Days*—Tuesday, Friday, and Saturday, at 2 p.m.

DISEASES OF WOMEN—Monday, Wednesday, and Friday, at 12.30 p.m.

" THE SKIN—Thursday, at 2 p.m.

" " EYE—Monday, Wednesday, and Thursday, at 1 p.m.

" " EAR—Thursday, at 2 p.m.

" " THROAT—Thursday, at 3 p.m.

" " Tuesday and Friday, at 10 a.m.

## LONDON HOSPITAL.

*Medical and Surgical Cases*—Daily, at 1.30 p.m.

*Operation Days*—Monday, Tuesday, Wednesday, Thursday, and Saturday, at 2 p.m.

DISEASES OF WOMEN—Wednesday and Saturday, at 1.30 p.m.

" THE SKIN—Thursday, at 9 a.m.

" " EYE—Tuesday and Saturday, at 9 a.m.

" " EAR—Saturday, at 9 a.m.

" " TEETH—Tuesday, at 9 a.m.

## MIDDLESEX HOSPITAL.

*Medical Cases*—Daily, at 11 a.m.

*Surgical Cases*—Wednesday and Saturday, at 9 a.m.; Monday, Tuesday, Thursday, and Friday, at 1.15 p.m.

*Operation Days*—Wednesday, at 1 p.m.; Tuesday, at 2 p.m.

" " *Obstetrical*—Wednesday, at 2 p.m.

DISEASES OF WOMEN—Wednesday and Saturday, at 1.30 p.m.

" THE SKIN—Friday, at 4 p.m.

" " EYE—Tuesday and Friday, at 9 a.m.

" " EAR AND THROAT—Tuesday, at 9 a.m.

" " TEETH—Monday, at 9.30 a.m.; Wednesday, at 9 a.m.; Friday, at 9.30 a.m.

## METROPOLITAN FREE HOSPITAL.

*Medical and Surgical Cases*—Daily, from 9 a.m. to 1 p.m.

*Operation Day*—Friday, at 9 a.m.



**ST. MARY'S HOSPITAL.***Medical and Surgical Cases*—Daily, at 1.30 p.m.*Operation Day*—Tuesday, at 1.30 p.m." " *Ophthalmic*—Friday, at 9 a.m." " *Orthopædic*—Wednesday, at 11 a.m.**DISEASES OF WOMEN**—Monday and Thursday, at 1.30 p.m." **THE SKIN**—Monday and Thursday, at 9.30 a.m." " **EYE**—Tuesday and Saturday, at 9.30 a.m." " **EAR**—Monday and Thursday, at 3 p.m." " **THROAT**—Tuesday and Friday, at 1 p.m." " **TEETH**—Wednesday and Saturday, at 9.30 a.m.**ST. THOMAS'S HOSPITAL.***Medical and Surgical Cases*—Daily, at 1.30 p.m.*Operation Days*—Wednesday and Saturday, at 1.30 p.m." " *Ophthalmic*—Tuesday, at 4 p.m.; Friday, at 2 p.m." " *Gynæcological*—Thursday, at 2 p.m.**DISEASES OF WOMEN**—Wednesday and Saturday, at 1.30 p.m." **THE SKIN**—Friday, at 1.30 p.m." " **EYE**—Daily (Sunday excepted), at 1.30 p.m." " **EAR**—Monday, at 1.30 p.m." " **THROAT**—Tuesday and Friday, at 1.30 p.m.**UNIVERSITY COLLEGE HOSPITAL.***Medical Cases*—Daily, at 1.30 p.m.*Surgical Cases*—Tuesday, Wednesday, Thursday, Friday, and Saturday, at 1.30 p.m.*Operation Days*—Wednesday and Thursday, at 1.30 p.m. Saturday, at 2 p.m.**DISEASES OF WOMEN**—Tuesday, Wednesday, and Friday, at 2 p.m." **THE SKIN**—Wednesday, at 1.45 p.m.; Saturday, at 9.15 a.m." " **EYE**—Monday, Tuesday, Thursday, and Friday, at 2 p.m." " **EAR**—Monday and Thursday, at 9 a.m." " **THROAT**—Thursday, at 1.30 p.m." " **TEETH**—Wednesday, at 10.30 a.m.**WEST LONDON HOSPITAL.***Medical and Surgical Cases*—Daily, at 1.30 p.m.*Operation Days*—Tuesday and Friday, at 2.30 p.m.**WESTMINSTER HOSPITAL.***Medical and Surgical Cases*—Daily, at 1 p.m.*Operation Days*—Tuesday and Wednesday, at 2 p.m.**DISEASES OF WOMEN**—Tuesday and Friday, at 1 p.m." **THE SKIN**—Wednesday, at 1 p.m." " **EYE**—Monday and Thursday, at 2.30 p.m." " **EAR**—Monday, at 9 a.m." " **THROAT**—Wednesday, at 9 a.m.**ORTHOPÆDIC CASES**—Friday, at 2.30 p.m.**DENTAL CASES**—Wednesday and Saturday, at 9.15 a.m.



# TIMES OF ATTENDANCE FOR OUT-PATIENTS

## AT THE

# LONDON SPECIAL HOSPITALS.

### CANCER.

CANCER HOSPITAL, Brompton—Monday, Wednesday, and Friday, 2 p.m.

ST. SAVIOUR'S CANCER HOSPITAL, Osnaburgh Street, Regent's Park—Monday and Wednesday, 10 to 12 a.m.; Tuesday and Friday, 7 to 8 p.m.; Thursday, 11 to 1 p.m.; Tuesday and Saturday, 12 to 1 p.m.

### CHILDREN.

BELGRAVE HOSPITAL, 77 and 79, Gloucester Street, Pimlico—Monday, Tuesday, Thursday, and Friday, 9 a.m.

CHEYNE HOSPITAL, Cheyne Walk, Chelsea.

EAST LONDON HOSPITAL, Shadwell—1 to 1.30 p.m.

EVELINA HOSPITAL, Southwark Bridge Road—9 a.m. daily.

HOME AND INFIRMARY FOR SICK CHILDREN, Sydenham Park Road.

HOSPITAL FOR SICK CHILDREN, 49, Great Ormond Street, W.C. 9 a.m. daily.

NORTH EASTERN HOSPITAL, Hackney Road—Medical: Monday, Wednesday, Thursday, and Saturday, 1.30 p.m.; Surgical: Tuesday, 1.30 p.m.; Friday, 9 a.m.

NORTH WEST LONDON HOSPITAL, 12, Bell Street, Edgware Road.

VICTORIA HOSPITAL, Queen's Road, Chelsea—9 to 4 daily.

### CONSUMPTION.

BROMPTON HOSPITAL, Brompton.

CITY OF LONDON HOSPITAL, Victoria Park—2 p.m. daily.

NORTH LONDON HOSPITAL, Mount Vernon, Hampstead—1 p.m. daily, 216, Tottenham Court Road; Monday, Tuesday, Wednesday, and Friday, 10 a.m. at the Hospital.

ROYAL HOSPITAL, City Road—Monday to Friday, 2 p.m.; Saturday, 8.30 p.m.

### EAR.

ROYAL EAR HOSPITAL, Frith Street, Soho—Tuesday, Thursday, and Friday, 9 to 12 a.m.; Monday and Saturday, 3 to 5 p.m.

### EPILEPSY.

HOSPITAL FOR DISEASES OF NERVOUS SYSTEM, Portland Terrace, Regent's Park—2 p.m.

NATIONAL HOSPITAL, Queen's Square—Monday, Tuesday, Wednesday, and Friday, 2 p.m.

WEST END HOSPITAL FOR DISEASES OF NERVOUS SYSTEM, 73, Welbeck Street—Monday, Tuesday, Wednesday, and Thursday, 1.30 p.m.; Friday, 6 p.m.

### FEVER.

HAMPSTEAD HOSPITAL.

HOMERTON HOSPITAL.

LONDON FEVER HOSPITAL, Liverpool Road. N.

STOCKWELL HOSPITAL.

### LYING-IN.

BRITISH HOSPITAL, Endell Street, Long Acre.

CITY OF LONDON HOSPITAL, City Road—12 p.m.

GENERAL HOSPITAL, York Road, Lambeth.

QUEEN CHARLOTTE'S HOSPITAL, Marylebone Road.



**HIP.**

**ALEXANDRA HOSPITAL**, 18, Queen Square, Bloomsbury—No Out-patients.

**OPHTHALMIC.**

**CENTRAL LONDON HOSPITAL**, Gray's Inn Road—1 p.m. daily.

**ROYAL LONDON HOSPITAL**, Blomfield Street, Moorfields—8 to 10 a.m. daily.

**ROYAL SOUTH LONDON HOSPITAL**, 6, St. George's Circus, Southwark—2 p.m. daily.

**ROYAL WESTMINSTER HOSPITAL**, King William Street, Strand.

**WESTERN HOSPITAL**, 153, 155, 218, Marylebone Road.

**ORTHOPÆDIC.**

**CITY HOSPITAL**, Hatton Garden—Tuesday and Friday, 2 p.m.

**NATIONAL HOSPITAL**, 234, Great Portland Street, and 56, Bolsover Street—Wednesday, 1 p.m.; Monday, Tuesday, Thursday, and Friday, 2 p.m.

**ROYAL HOSPITAL**, 297, Oxford Street—1 p.m.

**RECTUM.**

**ST. MARK'S HOSPITAL**, City Road—Males: Wednesday, 8.45 a.m.; Females: Thursday, 8.45 a.m.

**GORDON HOSPITAL**, 278, Vauxhall Bridge Road.

**SKIN.**

**ST. JOHN'S HOSPITAL**, Leicester Square—2 p.m. daily; Monday, Wednesday, and Friday, 7 p.m.

**BRITISH HOSPITAL**, 61, Great Marlborough Street, W.—Monday and Friday, 2 p.m.; Wednesday, 7 p.m.; *Branches*:—12a, Finsbury Square—Tuesday and Saturday, 2 p.m.; Thursday, 7 p.m.—5, Newington Butts—Wednesday and Thursday, 2 p.m.; Monday, 7 p.m.

**SKIN HOSPITAL**, 52, Stamford Street, Blackfriars—Monday and Wednesday, 2 p.m.; Tuesday, Thursday, and Friday, 1 p.m.

**THE LONDON SKIN HOSPITAL**, 47, Cranbourne Street, Leicester Square—Daily (Saturday excepted) 2 p.m.; Tuesday, Wednesday, Thursday, and Friday, 7 p.m.

**STONE.**

**ST. PETER'S HOSPITAL**, Henrietta Street, Covent Garden—Monday, Tuesday, Wednesday, and Thursday, 2 p.m.; Wednesday, Friday, and Saturday, 5 p.m.; Females, 2 p.m.

**SYPHILIS AND GONORRHOEA.**

**LOCK HOSPITAL FOR MEN**, 91, Dean Street, Soho.

**LOCK HOSPITAL FOR WOMEN**, Westbourne Grove, Paddington.

**THROAT.**

**THROAT HOSPITAL**, Golden Square—1.30 p.m. daily.

**CENTRAL THROAT HOSPITAL**, Gray's Inn Road—Monday, Wednesday, Thursday, and Saturday, 2 p.m.; Tuesday and Friday, 6 p.m.

**WOMEN.**

**CHELSEA HOSPITAL**, Fulham Road, Chelsea—Tuesday and Friday, 1.30 p.m.

**HOSPITAL FOR WOMEN**, Soho Square—10 a.m. daily.

**NEW HOSPITAL FOR WOMEN**, 222, Marylebone Road—Monday, Tuesday, Wednesday, Thursday, and Friday, 1 to 3 p.m.; Saturday, 9 to 10 a.m.

**WOMEN AND CHILDREN.**

**HOSPITAL FOR WOMEN AND CHILDREN**, Vincent Square, Westminster—Tuesday, Thursday, and Saturday, 2 to 3 p.m.

**ROYAL HOSPITAL FOR WOMEN AND CHILDREN**, Waterloo Road—12 to 2 p.m.

**SAMARITAN FREE HOSPITAL**, Lower Seymour Street, 12 to 2 p.m.



LIST OF  
PHYSICIANS AND SURGEONS  
ATTACHED TO THE CHIEF  
PROVINCIAL GENERAL HOSPITALS.

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BIRMINGHAM.

THE QUEEN'S HOSPITAL.

PHYSICIANS.

Dr. Foxwell, 17, Temple Row.  
Dr. Carter, 21, Temple Row.  
Dr. Suckling, 108, Newhall Street.

ASSISTANT PHYSICIAN.

Dr. Crooke, 2, Edmund Street.

SURGEONS.

J. St. S. Wilders, 9, Great Charles Street.  
Bennett May, 81, Edmund Street.  
Jordan Lloyd, 22, Broad Street.  
F. Marsh, 34, Paradise Street.

ASSISTANT SURGEONS.

A. F. Clay, Allan House, Steelhouse Lane.  
J. T. J. Morrison, 116, Edmund Street.

CONSULTING ACCOUCHEUR.

J. Clay, 138, Steelhouse Lane.

OBSTETRIC SURGEON.

Dr. Purslow, 192, Broad Street.

OPHTHALMIC SURGEON.

Priestley Smith, 34, Paradise Street.

DENTAL SURGEON.

Charles Sims, 51, Union Passage.

THE GENERAL HOSPITAL.

PHYSICIANS.

Dr. Wade, 24, Temple Row.  
Sir B. Foster, 14, Temple Row, and Grosvenor House.  
Dr. Saundby, 83a, Edmund Street.  
Dr. Simon, 27, Newhall Street.  
Dr. Rickards, 64, Newhall Street.

SURGEONS.

O. Pemberton, 11, Temple Row, and Edgbaston House.  
G. Barling, 85, Edmund Street.  
Robert Jolly, 47, Newhall Street.  
Dr. Chavasse, 24, Temple Row.

OBSTETRIC PHYSICIAN.

Dr. Malins, 12, Old Square.

ASSISTANT PHYSICIANS.

Dr. Short.  
Dr. Wilson, 65, Temple Row.

ASSISTANT SURGEONS.

W. F. Haslam, 33, Paradise Street.  
G. Heaton, Church Hill, Handsworth.



BRISTOL.

ROYAL INFIRMARY.

CONSULTING PHYSICIANS.

Dr. Spencer, 5, Lansdown Place.  
Dr. Fox, Church House, Clifton.

CONSULTING SURGEON.

J. Harrison, 13, Berkeley Square.

PHYSICIANS.

Dr. Smith, 9, Richmond Hill, Clifton.  
Dr. Waldo, 19, Pembroke Road, Clifton.  
Dr. Shaw, 11, Lansdown Place, Clifton.  
Dr. Prowse, 4, Rodney Cottage, Clifton.

ASSISTANT PHYSICIAN.

Dr. Williams, 44, Pembroke Road, Clifton.

OBSTETRIC PHYSICIAN.

Dr. Wedmore, Stoke Bishop, Druid's Stoke, Bristol.

SURGEONS.

E. C. Board, 7, Caledonia Place, Clifton.  
J. Greig Smith, 16, Victoria Square, Clifton.  
W. H. Harsant, 16, Pembroke Road, Clifton.  
A. W. Prichard, Gordon Road, Clifton.  
J. P. Bush, 13, Lansdown Place.

ASSISTANT SURGEON.

G. M. Smith, 70, Pembroke Road, Clifton.

OPHTHALMIC SURGEON.

F. Richardson Cross, Clifton.

DENTAL SURGEON.

W. R. Ackland, 5, Rodney Place, Clifton.

GENERAL HOSPITAL.

CONSULTING PHYSICIAN.

Dr. Burder, 7, South Parade, Clifton.

CONSULTING SURGEONS.

Dr. Marshall, 28, Caledonia Place, Clifton.  
R. W. Coe, 14, Berkeley Square, Clifton.  
Dr. Atchley, Tyndall's Park, Bristol.

PHYSICIANS.

Barclay J. Baron, 16, White Ladies Road, Clifton.  
Dr. Skerritt, Thornton House, Richmond Hill, Clifton.  
Dr. Harrison, Failland Lodge, Clifton.

ASSISTANT PHYSICIAN.

Dr. J. Michell Clarke, 2, York Buildings, Clifton.

PHYSICIAN-ACCOUCHEUR.

Dr. Lawrence, 19, Richmond Hill, Clifton.

ASSISTANT OBSTETRIC PHYSICIAN.

Dr. Newnham, 15, Richmond Hill, Clifton.

SURGEONS.

F. P. Lansdown, 19, White Ladies Road, Clifton.  
N. C. Dobson, 27, Victoria Square, Clifton.  
W. J. Penny, 6, Westbourne Place, Clifton.  
C. F. Pickering, 12, Berkeley Square, Bristol.

ASSISTANT SURGEON.

Wm. Barclay, Queen's Road, Clifton.

OPHTHALMIC SURGEON.

C. H. Walker, St. Paul's Road, Clifton.

DENTAL SURGEON.

T. C. Parson, 21, White Ladies Road, Clifton.



CAMBRIDGE.

ADDENBROKE'S HOSPITAL

PHYSICIANS.

Dr. Latham, 17, Trumpington Street.  
Dr. Bradbury, 7, St. Peter's Terrace.  
Dr. MacAlister, St. John's College.

ASSISTANT PHYSICIAN.

Dr. Lawrence Humphry, 3, Trinity Street.

SURGEONS.

G. Murray Humphry.  
E. Carver, 58, Corpus Buildings.  
G. E. Wherry, Corpus Buildings.  
G. Wallis, Corpus Buildings.

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LEEDS.

GENERAL INFIRMARY.

CONSULTING PHYSICIAN.

Dr. Allbutt, 6, Park Square.

CONSULTING SURGEONS.

C. G. Wheelhouse, Hillary Place.  
T. P. Teale, 38, Cookridge Street.  
T. R. Jessop, 32, Park Square.

PHYSICIANS.

Dr. Eddison, 29, Park Square.  
Dr. Churton, 35, Park Square.

ASSISTANT PHYSICIANS.

Dr. Barrs, 22, Park Place.  
Dr. Jacob, 12, Park Street.

OBSTETRIC PHYSICIAN.

Dr. Braithwaite, Little Woodhouse.

SURGEONS.

E. Atkinson, 36, Albion Street, and 16, Blenheim Terrace.  
A. Fergusson McGill, 23, Park Square.  
A. W. M. Robson, Hillary Place, Woodhouse Lane.  
E. Ward, 22, Park Place.

ASSISTANT SURGEONS.

W. H. Brown, 19, Queen Street.  
R. N. Hartley, 29, Blenheim Terrace.

OPHTHALMIC SURGEONS.

J. A. Nunneley, 22, Park Place.  
H. B. Hewetson, 11, Hanover Square.

DENTAL SURGEON.

T. S. Carter, 26, Park Square.



LIVERPOOL.

ROYAL INFIRMARY.

CONSULTING PHYSICIANS.

Dr. Turnbull, 86, Rodney Street.

Dr. Waters, 69, Bedford Street.

CONSULTING SURGEONS.

James Hakes, Latrigg, Aigburth Road.

E. R. Bickersteth, 2, Rodney Street.

PHYSICIANS.

Dr. Caton, 18a, Abercromby Square.

Dr. Glynn, 36, Rodney Street.

Dr. Davidson, 2, Gambier Terrace.

OBSTETRIC PHYSICIAN.

Dr. Wallace, 1, Gambier Terrace, Canning Street.

SURGEONS.

Dr. Abram, 74, Rodney Street.

R. Parker, 59, Rodney Street.

Dr. Banks, 28, Rodney Street.

F. T. Paul, 38, Rodney Street.

PHYSICIAN LUNATIC ASYLUM.

Dr. Glynn, 36, Rodney Street.

CONSULTING SURGEON LOCK DEPARTMENT.

W. McCheane, 47, Shaw Street, Everton.

SURGEONS.

F. W. Lowndes, 40, Knight Street, Rodney Street.

A. Bernard, 63, Bedford Street.

OPHTHALMIC SURGEON.

J. H. Bickerton, 88, Rodney Street.

DENTAL SURGEON.

E. J. M. Philips, 33, Rodney Street.

NORTHERN HOSPITAL.

PHYSICIANS.

Dr. Dickinson, 162, Bedford Street.

Dr. Barr, 1, St. Domingo Grove, Everton.

CONSULTING SURGEONS.

W. Hargraves Manifold, 45, Rodney Street.

Dr. Campbell, 1, Prince's Gate East.

SURGEONS.

C. Puzey, 71, Rodney Street.

D. Harrison, 23, Gambier Terrace, Hope Street.

G. G. Hamilton, 69, Rodney Street.

DENTAL SURGEON.

W. Matthews, 60, Rodney Street.

ROYAL SOUTHERN HOSPITAL.

PHYSICIANS.

Dr. Cameron, 4, Rodney Street.

Dr. Carter, 78, Rodney Street.

Dr. Williams, 58, Rodney Street.

SURGEONS.

Dr. Alexander, 100, Bedford Street South.

R. Jones, 22, Great George Square.

Dr. Rawdon, 42, Rodney Street.

DENTAL SURGEON

J. Royston, 60, Rodney Street.



MANCHESTER.

ROYAL INFIRMARY.

CONSULTING PHYSICIANS.

Dr. Ainsworth, Cliff Point, Lower Broughton.  
Dr. Renaud, Barton Arcade.  
Dr. Browne, Heaton Mersey.  
Sir W. Roberts, 89, Mosley Street.

CONSULTING SURGEONS.

G. Bowring, 324, Oxford Road.  
E. Lund, 22, St. John Street.

PHYSICIANS.

Dr. Steel, 6a, St. John Street.  
Dr. Ross, 14, St. John Street, and 3, Stanley Grove, Oxford Street.  
Dr. Leech, 96, Mosley Street.  
Dr. Dreschfield, 325, Oxford Road.

OBSTETRIC PHYSICIAN.

Dr. Lloyd Roberts, 11, St. John Street.

ASSISTANT PHYSICIANS.

Dr. Harris, 98, Mosley Street, and 335, Oxford Road.  
Dr. Bury, 20, St. John Street.

SURGEONS.

F. A. Southam, 96, Mosley Street.  
W. Whitehead, 499, Oxford Street, and 24, St. Ann's Square.  
T. Jones, 96, Mosley Street, and 248, Oxford Street.  
Dr. Hardie, 15, St. John Street.

OPHTHALMIC SURGEON.

Dr. Little, 21, St. John Street.

ASSISTANT SURGEONS.

G. A. Wright, St. John Street, and 339, Oxford Road.  
Dr. W. Thorburn, 96, Mosley Street.

DENTAL SURGEON.

G. W. Smith, 6, Aytoun Street.

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NEWCASTLE-ON-TYNE.

ROYAL INFIRMARY

PHYSICIANS.

Dr. Philipson, 7, Eldon Square.  
Dr. Drummond, 7, Saville Place.  
Dr. Oliver, 12, Eldon Square.  
Dr. Limont, 3, Eldon Square.

CONSULTING SURGEONS.

Dr. Gibb, Westgate Road House.  
Dr. Heath, 61, Westgate Road.

SURGEONS.

Dr. Arnison, 11, Eldon Square.  
G. E. Williamson, 22, Eldon Square.  
Dr. Hume, 4, Ellison Place.  
Dr. Page, 1, Saville Place.

ASSISTANT SURGEONS.

T. Anthony Dodd, 57, Westgate Road.  
Dr. J. K. Morison, 14, Savile Row.



OXFORD.

RADCLIFFE INFIRMARY.

PHYSICIANS.

Dr. Brooks, 36, Beaumont Street.  
Dr. Collier, 62, High Street.  
Dr. Darbshire, 97, Holywell Street.

SURGEONS.

A. Wiskfield, 26, Beaumont Street.  
H. P. Symonds, 35, Beaumont Street.  
W. L. Morgan, 42, Broad Street.

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SHEFFIELD.

GENERAL INFIRMARY.

PHYSICIANS.

Dr. Dyson, Gell Street.  
Dr. Porter, 269, Glossop Road.

ASSISTANT PHYSICIAN.

Dr. Cocking, 277, Glossop Road.

SURGEONS.

G. Huntsham Shaw, Attercliffe.  
W. F. Favell, Brunswick House, Glossop Road.  
A. Jackson, 17, Wilkinson Street.

ASSISTANT SURGEONS.

A. Hallam, 153, Norfolk Street.  
C. Atkin, 287, Glossop Road.

OPHTHALMIC SURGEON.

S. Snell, 17, Eyre Street.

PUBLIC HOSPITAL AND DISPENSARY.

CONSULTING PHYSICIANS.

Dr. Bransom, 61, Upper Hanover Street.  
Dr. Law, 169, Devonshire Street.

PHYSICIANS.

Dr. Burgess, 375, Glossop Road.  
Dr. Roberts, 356, Glossop Road.

SURGEONS.

Dr. Keeling, 267, Glossop Road.  
G. E. K. Thorpe, 77, Gell Street.  
B. J. Pye-Smith, 350, Glossop Road.

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## PROVINCIAL SPECIAL HOSPITALS.

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- Cheshire, Birkenhead,* Eye and Ear Hospital.  
 " " Fever Hospital.  
 " " Wirral Hospital for Sick Children.
- Derbyshire, Derby,* Hospital for Sick Children.
- Devonshire, Exeter,* West of England Eye Infirmary.  
 " *Plymouth,* Royal Eye Infirmary.  
 " *Torquay,* Western Hospital for Incipient Consumption.
- Dorsetshire, Weymouth,* Sanatorium for Diseases of Women and Children.
- Durham, Sunderland,* Hospital for Sick Children.  
 " " Hospital for Infectious Diseases.  
 " " North Durham Eye Infirmary.
- Gloucestershire, Bristol,* Eye Hospital, Lower Maudlin Street.  
 " " Hospital for Sick Children.  
 " " Lock Hospital for Women.  
 " *Cheltenham,* Ophthalmic Infirmary.  
 " *Gloucester,* Hospital for Sick Children.  
 " *Leckhampton,* Delaney Fever Hospital.
- Hampshire, Bournemouth,* Hospital for Hip Disease.  
 " " National Sanatorium for Consumption.  
 " *Southsea,* Home for Sick Children.
- Kent, Maidstone,* County Ophthalmic Hospital.  
 " *Margate,* Royal National Hospital for Scrofula.
- Lancashire, Dingle,* Epileptic Hospital.  
 " *Liverpool,* Clinical Hospital for Children.  
 " " Eye and Ear Infirmary, Myrtle Street.  
 " " Eye and Ear Hospital, 6, St. Paul's Square.  
 " " Hospital for Consumption.  
 " " Hospital for Cancer and Skin Diseases.  
 " " Hospital for Fistula, 28, Daulby Street.  
 " " Hospital for Heart Diseases, 421, Scotland Road.  
 " " Infirmary for Children, Myrtle Street.  
 " " Lying-in Hospital.  
 " " Nettlefield Fever Hospital.  
 " " Surgical Home for Women.  
 " *Manchester,* Hospital for Consumption and Throat Diseases.  
 " " Hospital for the Skin, Cancer, and Scrofula.  
 " " Manchester and Salford Lying-in Hospital.  
 " " Royal Eye Hospital.  
 " " Royal Hospital for Sick Children, Pendlebury and Quartside.  
 " " Southern Hospital for Diseases of Women and Children.
- Norfolk, Norwich,* Eye Infirmary.  
 " " Jenny Lind Infirmary for Sick Children.



- Northumberland, Newcastle*, Hospital for Diseases of the Chest.
- "              "      Hospital for Diseases of Children.
- "              "      Hospital for Diseases of the Throat and Ear.
- "              "      Infirmary for Diseases of the Eye.
- "              "      Lying-in Hospital.
- Nottinghamshire, Nottingham*, Hospital for Sick Children.
- "              "      Hospital for Women.
- "              "      Midland Eye Infirmary.
- Shropshire, Shrewsbury*, Eye, Ear, and Throat Hospital.
- Somersetshire, Bath*, Eye Infirmary, 2, Belvedere.
- "              *Taunton*, Eye Infirmary.
- Staffordshire, Wolverhampton*, Eye Infirmary.
- Sussex, Brighton*, Infirmary for Diseases of the Eye.
- "              "      Lying-in Hospital.
- "              "      Royal Alexandra Hospital for Sick Children.
- "              *St. Leonard's*, Buchanan Ophthalmic Hospital.
- Warwickshire, Birmingham*, Ear and Throat Infirmary, Newhall Street.
- "              "      Eye Hospital.
- "              "      Hospital for Women.
- "              "      Orthopædic and Spinal Hospital, Newhall Street.
- "              "      Skin and Lock Hospital.
- "              *Leamington*, Hospital for Chronic and Incurable Diseases.
- Worcestershire, Worcester*, Ophthalmic Hospital.
- Yorkshire, Bradford*, Eye and Ear Hospital.
- "              "      Fever Hospital.
- "              *Leeds*, Fever Hospital.
- "              "      Hospital for Women and Children.
- "              *Sheffield*, Ear and Throat Hospital.
- "              "      Fever Hospital.
- "              "      Hospital for Children.
- "              "      Hospital for Women.
- "              *York*, Eye Institution.



## SCOTCH SPECIAL HOSPITALS.

<i>Aberdeenshire, Aberdeen,</i>	Hospital for Sick Children.
<i>Edinburgh,</i>	Edinburgh Eye, Ear, and Throat Hospital, 6, Cambridge Street.
"	Edinburgh Hospital for Women and Children, 6, Grove Street, Fountainbridge.
"	Edinburgh Royal Hospital for Sick Children.
"	Edinburgh Royal Maternity and Simpson Memorial Hospital.
<i>Lanarkshire, Glasgow,</i>	Cancer Hospital, Hill St., Garnethill.
"	" Cancer and Skin Institution, 409, St. Vincent Street.
"	" Hospital for Skin Diseases, 8, Elmbank Street.
"	" Lock Hospital.
"	" Hospital for Diseases of the Ear, 28, Elmbank Crescent.
"	" Eye Infirmary, 170, Berkeley Street, and 78, Charlotte Street.
"	" Ophthalmic Institution, 126, West Regent Street.
"	" Hospital for Diseases of Women.
"	" Samaritan Hospital for Women.
"	" Maternity Hospital, 37, North Port- land Street.
"	" Hospital for Sick Children, Scott St.

## IRISH SPECIAL HOSPITALS.

<i>Antrim, Belfast,</i>	Hospital for Consumption, Fisherwick Place.
"	" Hospital for Diseases of the Skin, Glen- ravel Street.
"	" Hospital for Sick Children, Queen Street.
"	" Ulster Hospital for Sick Children.
"	" Eye and Ear Hospital, Great Victoria St.
"	" Ulster Eye, Ear, and Throat Hospital.
"	" Samaritan Hospital for Women, Lisburn Road.
"	" Ulster Hospital for Women and Children.
"	" Lying-in Hospital.
<i>Cork, Cork,</i>	County and City of Cork Hospital for Women and Children.
"	" St. Vincent Hospital for Women and Children.
"	" County and City of Cork Lying-in Hospital.
"	" Eye, Ear, and Throat Hospital.
"	" Lock Hospital.
"	" Fever Hospital.
<i>Dublin, Dublin,</i>	St. Joseph's Children's Hospital, Upper Temple Street.
"	" The National Children's Hospital, 87 & 88, Harcourt Street.
"	" National Eye and Ear Infirmary, Moles- worth Street.
"	" St. Mark's Ophthalmic and Aural Hospital.
"	" Orthopædic Hospital, 24 & 25, Great Brunswick Street.
"	" Coombe Lying-in Hospital.
"	" Rotunda Lying-in Hospital.
"	" Fever Hospital, Cork Street.
<i>Limerick, Limerick,</i>	St. John's Fever Hospital.
<i>Monaghan, Clones,</i>	County Fever Hospital.
"	Monaghan, Monaghan County Fever Hospital.
<i>Waterford, Waterford,</i>	Leper Hospital.
"	" Lying-in Hospital.
<i>Wicklow, Arklow,</i>	Fever Hospital.



## Consulting Physicians and Surgeons.

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Below are given the names, &c. of those only who have written works on special subjects. The list is simply intended to serve as a reference in cases of emergency.

Suggestions will be gladly received for rendering it more complete.

### ANEURISM.

#### LONDON.

R. Barwell, 55, Wimpole Street, Cavendish Square.  
A. P. Gould, 10, Queen Anne Street, Cavendish Square.  
C. Heath, 36, Cavendish Square.  
H. G. Howse, 59, Brook Street, Grosvenor Square.

#### PROVINCIAL.

H. G. Croly, 7, Merrion Square North, Dublin.  
Dr. Murray, 34, Clayton Street West, Newcastle-on-Tyne.  
Oliver Pemberton, 65, Temple Row, Birmingham.

### SURGICAL DISEASES OF THE BLADDER & URETHRA.

*(Including Stone.)*

#### LONDON.

T. Bryant, 65, Grosvenor Street, Grosvenor Square.  
A. E. Durham, 82, Brook Street.  
E. H. Fenwick, 5, Old Burlington Street.  
F. J. Gant, 16, Connaught Square.  
R. Harrison, 6, Lower Berkeley Street, Portman Square.  
Berkeley Hill, 66, Wimpole Street.  
Clement Lucas, 18, Finsbury Square.  
T. D. Maddick, 2, Chandos Street, Cavendish Square.  
H. Morris, 2, Mansfield Street, Portland Place.  
Dr. Moullin, 69, Wimpole Street.  
Henry Smith, 7, Wimpole Street.  
Sir Henry Thompson, 35, Wimpole Street.  
J. Wood, 61, Wimpole Street.

#### PROVINCIAL.

Dr. G. Buchanan, Athol Place, 193, Bath Street, Glasgow.  
W. Cadge, 49, St. Giles' Street, Norwich.  
H. G. Croly, 7, Merrion Square North, Dublin.  
Dr. G. Murray Humphry, Cambridge.  
Dr. Hussey, 24, Winchester Road, Oxford.  
W. Whitehead, 17, Market Street, Manchester.



**C A N C E R.**

**LONDON.**

Wm. Morratt Baker, 26, Wimpole Street.  
Sir Jas. Risdon Bennett, 22, Cavendish Square.  
H. Trentham Butlin, 82, Harley Street.  
W. H. Cripps, 2, Stratford Place, Oxford Street.  
F. B. Jessett, 16, Upper Wimpole Street.  
Sir Jas. Paget, 1, Harewood Place, Hanover Square.  
Dr. Marsden, 45, Seymour Street, Portman Square.  
T. W. Nunn, 8, Stratford Place.  
Dr. Snow, 6, Gloucester Place, Portman Square.  
Dr. Thin, 22, Queen Anne Street, Cavendish Square.  
W. R. Williams, 34, Welbeck Street.

**PROVINCIAL.**

Oliver Pemberton, 65, Temple Row, Birmingham.

**DISEASES OF CHILDREN.**

**LONDON.**

Dr. Cheadle, 19, Portman Street.  
Dr. Day, 10, Manchester Square.  
Dr. Goodhart, 25, Weymouth Street, Portland Place.  
Dr. Robert J. Lee, 6, Savile Row.  
Dr. Money, 24, Harley Street.  
Dr. Eustace Smith, 15, Queen Anne Street, Cavendish Square.  
Dr. Squire, 53, Harley Street, Cavendish Square.  
Dr. Warner, 5, Prince of Wales' Terrace, Kensington Palace.  
Dr. West, 55, Harley Street, Cavendish Square.

**SURGICAL.**

Edmund Owen, 64, Great Cumberland Place, W.  
W. Pye, 4, Sackville Street, Piccadilly.

**PROVINCIAL.**

Dr. Ashby, 13, St. John Street, Manchester.  
G. A. Wright, 8a, St. John Street, Manchester.

**DIABETES.**

Dr. Abbotts, 49, Weymouth Street, Portland Place.  
Dr. Brunton, 10, Stratford Place.  
Dr. Dickinson, 9, Chesterfield Street, Mayfair.  
Dr. Pavy, 35, Grosvenor Street.

**PROVINCIAL.**

Dr. Saundby, 83a, Edmund Street, Birmingham.  
Sir B. Walter Foster, 55, Temple Row, Birmingham.

**DISEASES OF THE EAR.**

**LONDON.**

Sir Wm. Dalby, 18, Savile Row.  
G. P. Field, 34, Wimpole Street.  
Dr. MacNaughton Jones, 141, Harley Street.  
Dr. Pritchard, 3, George Street, Hanover Square.  
Dr. Purves, 20, Stratford Place, Oxford Street.  
W. R. H. Stewart, 41, Devonshire Street, Portland Place.  
Dr. Woakes, 78, Harley Street.

**PROVINCIAL.**

Dr. Barr, Sauchiehall Street, Glasgow.  
Dr. McBride, 16, Chester Street, Edinburgh.



## DISEASES OF THE EYE.

## LONDON.

R. Brudenell Carter, 27, Queen Anne Street.  
 G. Cowell, 3, Cavendish Place, Cavendish Square.  
 W. A. Frost, 17, Queen Anne Street.  
 R. M. Gunn, 54, Queen Anne Street, Cavendish Square.  
 G. Hartridge, 65, Green Street, Grosvenor Square.  
 G. Higgins, 38, Brook Street, Grosvenor Square.  
 Jabez Hogg, 1, Bedford Square.  
 J. W. Hulke, 10, Old Burlington Street.  
 J. Hutchinson, 15, Cavendish Square.  
 G. Lindsay Johnson, 14, Stratford Place, Oxford Street.  
 H. Juler, 77, Wimpole Street.  
 G. Lawson, 12, Harley Street, Cavendish Square.  
 Charles Macnamara, 13, Grosvenor Street.  
 A. Stanford Morton, 26, Weymouth Street, Portland Place.  
 E. Nettleship, 5, Wimpole Street.  
 H. Power, 37a, Great Cumberland Place.  
 Charles Roberts, 63, Curzon Street, Mayfair.  
 John Tweedy, 100, Harley Street.  
 Spencer Watson, 7, Henrietta Street, Cavendish Square.

## PROVINCIAL.

G. A. Berry, 31, Drumsheugh Gardens, Edinburgh.  
 E. Browne, 39, Rodney Street, Liverpool.  
 Dr. Helm, 12, River Street, Truro.  
 Dr. Little, 21, St. John Street, Manchester.  
 Dr. Maddox, 7, Manor Place, Edinburgh.  
 J. A. Nunneley, 22, Park Place, Leeds.  
 C. F. Pollock, 1, Buckingham Terrace, Hillhead, Glasgow.  
 Dr. Ramsay, 9, Elmbank Street, Glasgow.  
 Priestley Smith, 34, Paradise Street, Birmingham.  
 Jas. Vose Solomon, 22, Newhall Street, Birmingham.  
 Dr. Swanzy, 23, Merrion Square, Dublin.  
 Dr. Taylor, 9, Park Row, Nottingham.  
 L. H. Tosswill, 28, West Southernhay, Exeter.  
 G. E. Walker, 45, Rodney Street, Liverpool.

## FEVERS.

## LONDON.

Dr. Cayley, 27, Wimpole Street.  
 Dr. Collie, Fever Hospital, Homerton.  
 Dr. Harley, 9, Stratford Place.

## PROVINCIAL.

Dr. Moore, 67, Fitzwilliam Square North, Dublin.

## GOUT AND RHEUMATISM.

## LONDON.

Sir Dyce Duckworth, 11, Grafton Street.  
 Sir A. Garrod, 10, Harley Street, Cavendish Square.  
 Dr. Archibald Garrod, 9, Chandos Street, Cavendish Square.  
 Dr. Granville, 14, Hanover Square.  
 Dr. Haig, 7, Brook Street.  
 Dr. Hood, 11, Seymour Street, Portman Square.  
 Dr. Maclagan, 9, Cadogan Place, Belgrave Square.  
 Dr. Roose, 45, Hill Street, Berkeley Square.

## PROVINCIAL.

Dr. Latham, 17, Trumpington Street, Cambridge.  
 Dr. Meldon, 15, Merrion Square North, Dublin.  
 Dr. Spender, 17, Circus, Bath.  
 H. Lane, 11, Circus, Bath.



**HEART DISEASE.****LONDON.**

Dr. Cockle, 8, Suffolk Street, Pall Mall.  
 Dr. Sansom, 84, Harley Street.  
 Dr. Semple, 8, Torrington Square.  
 Dr. Walshe, 41, Hyde Park Square.

**PROVINCIAL.**

Dr. G. W. Balfour, 17, Walker Street, Edinburgh.  
 Dr. Bramwell, 23, Drumsheugh Gardens, Edinburgh.  
 Dr. Dobell, Strete Place, Bournemouth.  
 Sir B. Walter Foster, 55, Temple Row, Birmingham.  
 Dr. Russell, 46, Albany Street, Edinburgh.  
 Sir James Sawyer, 31, Temple Row, Birmingham.

**HERNIA.****LONDON.**

T. Bryant, 65, Grosvenor Street, Grosvenor Square.  
 John Croft, 48, Brook Street, Grosvenor Square.  
 Sir W. MacCormac, 13, Harley Street.  
 F. Treves, 6, Wimpole Street, Cavendish Square.  
 John Wood, 61, Wimpole Street, Cavendish Square.

**PROVINCIAL.**

Dr. G. Buchanan, Athol Place, 193, Bath Street, Glasgow.  
 H. G. Croly, 7, Merrion Square North, Dublin.  
 W. D. Spanton, Chatterly House, Hanley, Staffordshire.

**INSANITY.****LONDON.**

Dr. Blandford, 48, Wimpole Street.  
 Dr. Down, 81, Harley Street, Cavendish Square.  
 Dr. E. East, 16, Upper Berkeley Street, Portman Square.  
 Dr. Granville, 14, Hanover Square.  
 Dr. Maudsley, 9, Hanover Square.  
 Dr. Mercier, Flower House, Southend Road, Catford.  
 Dr. Mickle, 549, Commercial Road, E.  
 Dr. Savage, 3, Henrietta Street.  
 Dr. Sheppard, 42, Gloucester Square, Hyde Park.  
 Dr. Tuke, 63, Welbeck Street, Cavendish Square.  
 Dr. Lyttleton Winslow, 70, Wimpole St., Cavendish Square.

**PROVINCIAL.**

Dr. Clouston, Royal Asylum, Morningside, Edinburgh.  
 Dr. Lewis, West Riding Asylum, Wakefield.  
 Dr. Sankey, Boreatton Park, Baschurch, near Shrewsbury.

**DISEASES OF JOINTS.**

(INCLUDING SPINAL DISEASE.)

**LONDON.**

W. Adams, 5, Henrietta Street, Cavendish Square.  
 H. W. Allingham, 25, Grosvenor Street.  
 H. F. Baker, 2, Mandeville Place, Manchester Square.  
 R. Barwell, 55, Wimpole Street.  
 Heather Bigg, 56, Wimpole Street.  
 B. E. Brodhurst, 20, Grosvenor Street.  
 T. Bryant, 65, Grosvenor Street, Grosvenor Square.



F. Churchill, 4, Cranley Gardens, Queen's Gate.  
 John Croft, 48, Brook Street, Grosvenor Square.  
 R. Davy, 33, Welbeck Street.  
 F. R. Fisher, 58, Harley Street.  
 J. Warrington Haward, 16, Savile Row.  
 Sydney Jones, 16, George Street, Hanover Square.  
 Sir William MacCormac, 13, Harley Street.  
 Chas. Macnamara, 13, Grosvenor Street.  
 Howard Marsh, 30, Bruton Street, Berkeley Square.  
 R. W. Parker, 8, Old Cavendish Street.  
 T. P. Pick, 18, Portman Street, Portman Square.  
 W. Pye, 4, Sackville Street, Piccadilly.  
 H. A. Reeves, 7, Grosvenor Street.  
 Bernard Roth, 29, Queen Anne Street, Cavendish Square.  
 Noble Smith, 24, Queen Anne Street, Cavendish Square.  
 F. Treves, 6, Wimpole Street, Cavendish Square.  
 W. J. Walsham, 27, Weymouth Street, Portland Place.

#### PROVINCIAL.

Dr. G. Buchanan, Athol Place, 193, Bath Street, Glasgow.  
 H. G. Croly, 7, Merrion Square North, Dublin.  
 T. Jones, 89, Mosley Street, Manchester.  
 L. H. Ormsby, 92, Merrion Square West, Dublin.  
 O. Pemberton, 65, Temple Row, Birmingham.  
 W. P. Swain, 17, The Crescent, Plymouth.  
 Dr. Thorburn, 96, Mosley Street, Manchester.  
 Dr. Tivy, 8, Lansdown Place, Clifton.  
 G. A. Wright, 8a, St. John Street, Manchester.

#### KIDNEY DISEASES.

##### LONDON.

Dr. Andrew, 22, Harley Street.  
 Dr. Beale, 61, Lower Grosvenor Street.  
 M. Beck, (Surgical,) 30, Wimpole Street.  
 Dr. Brunton, 10, Stratford Place, Cavendish Square.  
 W. Bruce Clarke, (Surgical,) 46, Harley Street.  
 Dr. Dickinson, 9, Chesterfield Street, Mayfair.  
 R. J. Godlee, (Surgical,) 19, Wimpole Street.  
 Dr. Harley, 25, Harley Street.  
 Dr. Johnson, 11, Savile Row.  
 H. Morris, (Surgical,) 2, Mansfield Street, Portland Place.  
 Dr. Ralfe, 25, Queen Anne Street, Cavendish Square.  
 Sir William Roberts, 8, Manchester Square.  
 Dr. Sutton, 9, Finsbury Square.  
 J. K. Thornton, (Surgical,) 22, Portman Street.

##### PROVINCIAL.

Dr. Black, 121, Douglas Street, Blytheswood Square, Glasgow.  
 Dr. Carter, 78, Rodney Street, Liverpool.  
 Dr. Newman, (Surgical,) 18, Woodside Place, Glasgow.  
 Dr. Saundby, 83a, Edmund Street, Birmingham.  
 Dr. Stewart, 19, Charlotte Square, Edinburgh.

#### LIVER DISEASES.

##### LONDON.

Dr. Church, 130, Harley Street.  
 Dr. Harley, 25, Harley Street.  
 Dr. Pavy, 35, Grosvenor Street.



**DISEASES OF THE LUNGS.****LONDON.**

Dr. Berkhart, 71, Wimpole Street.  
 Sir Andrew Clark, Bart., 16, Cavendish Square.  
 Dr. Coupland, 16, Queen Anne Street.  
 Dr. Fowler, 35, Clarges Street, Mayfair.  
 Dr. Green, 74, Wimpole Street.  
 Dr. Harris, 31, Wimpole Street.  
 Dr. Heron, 57, Harley Street.  
 Dr. Murrell, 38, Weymouth Street, Portland Place.  
 Dr. Pollock, 52, Upper Brook Street.  
 Dr. Powell, 62, Wimpole Street, Cavendish Square.  
 Dr. Quain, 67, Harley Street.  
 Dr. Sturges, 85, Wimpole Street.  
 Dr. Thompson, 47, Park Street, Grosvenor Square.  
 Dr. Thorowgood, 61, Welbeck Street.  
 Dr. Walshe, 41, Hyde Park Square.  
 Dr. Weber, 10, Grosvenor Street.  
 Dr. West, 15, Wimpole Street.  
 Dr. Williams, 2, Upper Brook Street, Grosvenor Square.  
 Dr. Yeo, 44, Hertford Street, Mayfair.

**PROVINCIAL.**

Dr. Dobell, Strete Place, Bournemouth.  
 Dr. James, 44, Melville Street, Edinburgh.  
 Dr. Latham, 17, Trumpington Street, Cambridge.  
 Dr. Lindsay, 37, Victoria Place, Belfast.  
 Dr. Mackenzie, 1, Northumberland Street, Edinburgh.  
 N. Porritt, (Surgical,) 14, New North Road, Huddersfield.  
 Sir James Sawyer, 31, Temple Road, Birmingham.  
 Dr. Steell, 8a, St. John's Street, Manchester.  
 Dr. Waters, 69, Bedford Street, Liverpool.

**NERVOUS DISEASES.****LONDON.**

Dr. Althaus, 48, Harley Street.  
 Dr. Bastian, 8a, Manchester Square.  
 Dr. Bennett, 76, Wimpole Street, Cavendish Square.  
 Dr. Bristowe, 13, Old Burlington Street.  
 Dr. Broadbent, 34, Seymour Street, Portman Square.  
 Dr. Buzzard, 74, Grosvenor Street.  
 A. Bowlby, (Surgical,) 43, Queen Anne Street.  
 Dr. Dowse, 14, Welbeck Street, Cavendish Square.  
 Dr. Ferrier, 34, Cavendish Square.  
 Dr. Gowers, 50, Queen Anne Street.  
 V. Horsley, 80, Park Street.  
 Dr. Hughlings Jackson, 3, Manchester Square.  
 Dr. Ogle, 30, Cavendish Square.  
 Dr. Ramskill, 5, St. Helen's Place.  
 Dr. Russell Reynolds, 38, Grosvenor Street.  
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 Dr. Sturges, 85, Wimpole Street.  
 Dr. Tooth, 34, Harley Street.  
 Dr. De Watteville, 30, Welbeck Street.  
 Dr. Wilks, 72, Grosvenor Street.

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 Dr. Davidson, 2, Gambier Terrace, Liverpool.  
 Dr. Drummond, 6, Saville Place, Newcastle-on-Tyne.  
 Dr. Fox, Church House, Clifton, Gloucestershire.  
 Dr. Ross, 14, St. John Street, Manchester.  
 Dr. Stewart, 19, Charlotte Square, Edinburgh.  
 Dr. Suckling, 103, Newhall Street, Birmingham.  
 Dr. Thorburn, (Surgical,) 96, Mosley Street, Manchester.



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 A. Cooper, 9, Henrietta Street, Cavendish Square.  
 W. H. Cripps, 2, Stratford Place, Oxford Street.  
 J. R. Lane, 9, Matheson Road, West Kensington.  
 H. Lee, 9, Savile Row.  
 J. McCarthy, 15, Finsbury Square.  
 Henry Smith, 7, Wimpole Street.

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 L. H. Ormsby, 92, Merrion Square West, Dublin.  
 W. Whitehead, 17, Market Street, Manchester.

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 Dr. Cottle, 3, Savile Row.  
 Dr. Crocker, 121, Harley Street.  
 Dr. Harries, 14, Suffolk Street, Pall Mall.  
 Jonathan Hutchinson, 15, Cavendish Square.  
 Dr. Liveing, 11, Manchester Square.  
 Dr. Mapother, 32, Cavendish Square.  
 J. L. Milton, 12, Suffolk Street, Pall Mall.  
 M. A. Morris, 8, Harley Street, Cavendish Square.  
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 Dr. Altschul, 9, Old Bond Street.  
 N. H. Mason, 18, Stavordale Road, Highbury Hill.  
 W. Van Praagh, 11, Fitzroy Square.  
 E. J. Seltman, 21, Westbourne Park.

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 Dr. Fenwick, 29, Harley Street.  
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 Arthur Cooper, 20, Old Burlington Street.  
 Dr. Drysdale, 23, Sackville Street, Piccadilly.  
 Dr. Hargreaves, 12, Chandos Street, Cavendish Square.  
 R. Harrison, 6, Lower Berkeley Street, Portman Square.  
 Berkeley Hill, 66, Wimpole Street.  
 J. Hutchinson, 15, Cavendish Square.  
 J. R. Lane, 9, Matheson Road, West Kensington.  
 H. Lee, 9, Savile Row.  
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 Lennox Browne, 36, Weymouth Street, Portland Place.  
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## THE LUNACY ACTS AMENDMENT ACT.

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Private patients can only be received after this date under an order made by a county court judge, magistrate, or justice, specially appointed; and this order will be granted if a private application is made, giving particulars, two medical certificates granted upon examination made within seven days of the application by two medical men, independent of one another, and a promise to visit the patient every six months; one of the certificates should, unless impracticable, be from the usual medical attendant. The medical men signing these certificates must be present at the time of the hearing, and bound to secrecy. In case of urgency the petition must be made by the husband or wife, or some relative fortified by a certificate granted by a medical man, upon an examination made not more than two days previously. If the order is granted it will hold good for seven days, or in case a petition is pending, till this is settled. Persons presenting petitions, or medical men signing certificates, are not rendered liable to any proceedings if they have acted in good faith and with reasonable care; and if commenced they may be stopped upon application to the High Court or a judge, upon such terms as to costs &c. as the court or judge may think fit. The medical certificates must not be signed by the person petitioning, or by a near relative, partner, or assistant of the same, nor by the proprietor of or persons interested in the asylum, nor by the medical attendant thereof, nor by a near relative or assistant of the other, or a member of the asylum managing committee. The medical certificate may be amended within fourteen days after the patient's reception, under sanction of the judge, magistrate, or justice. A justice who orders an alleged lunatic, whether pauper or not, to be medically examined, may order the guardians to pay all reasonable remuneration and expenses. Any person may apply to the commissioners to have a person detained as a lunatic who has been examined by two medical men. The examinations must be made separately, two days at least intervening between them, and the certificates must state whether or not the patient can be discharged without risk. Upon these commissioners have power to act. Mechanical means of restraint must not be applied without a medical certificate. The medical attendant of a lunatic found so by inquisition must send reports periodically to the Masters in Lunacy.

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## WORKHOUSE MEDICAL OFFICERS AND THE LUNACY ACTS AMENDMENT ACT.

1. Except in the cases mentioned in the Lunacy Act, 1885, and this Act, no person shall be allowed to remain in a workhouse as a lunatic unless the medical officer of the workhouse certifies in writing—*a*, that such person is a lunatic, with the grounds for the opinion; *b*, that he is a



proper person to be allowed to remain in a workhouse as a lunatic; c, that the accommodation in the workhouse is sufficient for his proper care and treatment, separate from the inmates of the workhouse not lunatics, unless the medical officer certifies that the lunatic's condition is such that it is not necessary for the convenience of the lunatic or of the other inmates that he should be kept separate.

2. A certificate under this section shall be sufficient authority for detaining the lunatic therein named against his will in the workhouse for fourteen days from its date.

3. No lunatic shall be detained against his will or allowed to remain in a workhouse for more than fourteen days from the date of a certificate under this section without an order under the hand of a justice of the peace having jurisdiction in the place where the workhouse is situate.

4. The order in the last preceding sub-section mentioned may be made upon the application of a relieving officer of the union to which the workhouse belongs, supported by a medical certificate under the hand of a medical practitioner, not being an officer of the workhouse, and by the certificate under the hand of the medical officer of the workhouse hereinbefore mentioned.

5. The guardians of the union to which the workhouse belongs shall pay such reasonable remuneration as they think fit to the medical practitioner who, not being an officer of the workhouse, examines a person for the purpose of a certificate under this section.

6. If, in the case of a lunatic being in a workhouse, the medical officer thereof shall not sign such certificate as in this section mentioned, or if at or before the expiration of fourteen days from the date of the certificate an order is not made under the hand of a justice for the detention of the lunatic in the workhouse; or, if after such an order has been made, the lunatic shall cease to be a proper person to be detained in a workhouse, the medical officer of the workhouse shall forthwith give notice in writing to a relieving officer of the union to which the workhouse belongs that a pauper in the workhouse is a lunatic and a proper person to be sent to an asylum, and thereupon the like proceedings shall be taken by the relieving officer and all other persons for the purpose of removing the lunatic to an asylum, and within the same time, as by the Lunatic Asylums Act, 1853, provided in the case of a pauper deemed to be a lunatic and a proper person to be sent to an asylum, and, pending such proceedings, the lunatic may be detained in the workhouse.

7. If the medical officer of a workhouse omits to give such notice to a relieving officer as by the last preceding sub-section provided, he shall for each day or part of a day after the first day, and before the notice is given during which the alleged lunatic remains in the workhouse, be liable to a penalty not exceeding ten pounds.

8. Every relieving officer who fails to perform the duty by this section imposed upon him shall for each offence be liable to a penalty not exceeding ten pounds.

9. The guardians of the union, to which a workhouse belongs, may direct that any lunatic detained therein be discharged or removed therefrom.



10. For the purposes of this section, an asylum provided for reception and relief of the insane under the Metropolitan Poor Act, 1867, shall be deemed to be a workhouse, and the managers of such asylum shall exercise the powers and perform the duties by this section conferred and imposed upon the guardians of the union to which a workhouse belongs, and notices to be given to and proceedings to be taken by a relieving officer shall, in the case of a lunatic in any such asylum, be given to and taken by one of the officers of the asylum to be nominated for the purpose by the managers of the asylum.

11. An order under Section 3 of the Lunacy Act, 1885, shall not authorise the detention of a lunatic after the expiration of fourteen days from its date, except under the conditions mentioned in this section.

12. As regards every pauper in a workhouse at the date of the commencement of this Act (May 1st, 1890) as to whom a certificate has been signed under Section 20 of the Lunacy Acts Amendment Act, 1862, no certificate or order of a justice under this section shall be required.

Where a pauper lunatic is discharged from an asylum, hospital, or licensed house, and the medical officer of the asylum, or the medical attendant of the hospital or house, is of opinion that the lunatic has not recovered, and is a proper person to be kept in a workhouse as a lunatic, the medical officer or medical attendant shall certify such opinion, and his certificate shall accompany the notice of discharge, and the lunatic may thereupon be received and detained against his will in a workhouse without further order if the medical officer of the workhouse certifies in writing that the accommodation in the workhouse is sufficient for the lunatic's proper care and treatment, separate from the inmates of the workhouse not lunatics, or that the lunatic's condition is such that it is not necessary for the convenience of the lunatic, or of the other inmates, that he should be kept separate.

has been made, the medical officer of the workhouse shall forthwith give notice in writing to a relieving officer of the union to which the workhouse belongs that a pauper in the workhouse is a lunatic, and that a proper person to be sent to an asylum, and that the medical officer shall be taken by the relieving officer and all other persons for the purpose of removing the lunatic to an asylum, and within the same time as by the Lunacy Acts Amendment Act, 1862, provided in the case of a pauper lunatic to be a inmate and a proper person to be sent to an asylum, and pending such proceedings, the lunatic may be detained in the workhouse.

7. If the medical officer of a workhouse omits to give such notice to a relieving officer as by the last preceding subsection provided, he shall for each day or part of a day after the first day on which the notice ought to have been given be liable to a penalty not exceeding ten pounds.

8. Every relieving officer who fails to perform the duty by this section imposed upon him shall for each day or part of a day after the first day on which the notice ought to have been given be liable to a penalty not exceeding ten pounds.

9. The guardians of a union to which a workhouse belongs may direct that a lunatic detained in the workhouse as a lunatic be discharged or removed therefrom.



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HOME FOR INCURABLE CHILDREN, 2, Maida Vale.

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*Buteshire*, Glenburn Hydropathic Establishment, Rothesay.

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*Carnarvonshire*, Hydropathic Establishment, Llandudno, Dr. Thomas.

*Cheshire*, Moston House, The Parade, Banke Road, West Kirby.

*Cork*, St. Ann's Hill Hydropathic Establishment, Dr. Altdorfer.

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 " Royal Brine Hotel, Droitwich.  
 " Wyche-side, Malvern Wells Road, Dr. Grindrod.  
*Yorkshire*, Connaught Hydropathic Establishment, Harrogate  
 " Craiglands Hydropathic Establishment, Ilkley,  
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 " Harrogate Hydropathic Establishment, Dr. Veale.  
 " Ilkley Wells. Manager, C. Dilly; physician, Dr.  
 Scott.  
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*(Any Change of Address should be notified to the Editor.)*

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ROYAL FREE HOSPITAL, Gray's Inn Road.	
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## PUBLISHED WEEKLY.

- The Lancet* ..... J. Croft, 423, Strand.  
*British Medical Journal* ..... British Medical Association,  
 429, Strand.  
*Medical Press and Circular* .. Balliere & Co., 20, King William  
 Street.  
*Hospital Gazette* ..... Balliere & Co., 23, King William  
 Street.
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## PUBLISHED MONTHLY.

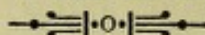
- Medical Recorder* ..... Allen & Co., Waterloo Place.  
*Medical Chronicle* ..... Cornish, 33, Piccadilly, Man-  
 chester.  
*Provincial Medical Journal* .. 10, Friar Lane, Leicester.  
*Practitioner* ..... Macmillan & Co., Bedford St.,  
 Covent Garden.  
*Edinburgh Medical Journal* .. Oliver & Boyd, Tweeddale  
 Court, Edinburgh.  
*Glasgow Medical Journal* .... A. Macdougall, 66, Mitchell  
 Street, Glasgow.  
*Sanitary Record* ..... Allen & Co., Waterloo Place.  
*Hygiene* ..... Beaumont & Co., 61, Charing  
 Cross Road.  
*Sanitary Journal for Scotland*, R. Miller, 186, Trongate, Glas-  
 gow.
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## PUBLISHED QUARTERLY.

- |   |   |  |
|---|---|--|
| <i>Journal of Mental Science</i> ..   | } | Messrs. Churchill, 11, New<br>Burlington Street. |
| " <i>Microscopical<br/>Science</i>  |   |  |
| " <i>Anatomy and<br/>Physiology</i> ....                                      | } | Macmillan & Co., Bedford St.,<br>Covent Garden.  |
| " <i>Physiology</i> .....   |   |  |
| <i>Brain</i> .....  |   |  |
| <i>Æsclepiad</i> ..... Longmans, Paternoster Row.                             |   |  |
| <i>Journal of Psychological<br/>Medicine and Mental Pa-<br/>thology</i> ..... | } | Balliere & Co., 20, King William<br>Street.      |
| <i>Bristol Medico-Chirurgical<br/>Journal</i> .....                           |   |  |
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"      2 oz.      "      "      4 oz. ....	2d.

And so on at the rate of ½d. for every additional 2 oz.

A letter posted unpaid is chargeable on delivery with double postage; and a letter posted insufficiently prepaid is chargeable with double the deficiency.

No letter may be above 18 inches in length, 9 inches in width, or 6 inches in depth.

**RAILWAY LETTERS (INLAND).**—Single letters not exceeding one ounce in weight can now be sent by Railway to be forwarded by next available passenger train or steamship. They must be delivered at the Railway Station, and not at the Post Office. The total charge for transmission of each letter is 2d. in addition to the ordinary penny stamp, which must be affixed by the sender, and the 2d. paid on delivery to the Railway Company. Letters for delivery to private address will be transferred on arrival at the station of address to the nearest Post Office or letter box, and delivered as an ordinary post letter; and letters addressed "till called for" will be retained at the station for a period not exceeding seven days.

## REGISTRATION OF LETTERS, &c.

(INLAND.)

The fee for registering a letter, newspaper, or book packet passing between any two places in the United Kingdom is 2d.

Every letter or packet presented for registration must be enclosed in a strong envelope, securely fastened. If the letter or packet contains money it must, in order to gain the benefit of the guarantee, be enclosed in a registered letter envelope sold by the Post Office; and if coins are sent they must on no account be put in loose, but must be packed and enclosed in such a way as to move about as little as possible.

Every letter, &c. to be registered must be given to an agent of the Post Office, and a receipt obtained for it; and it should on no account be dropped into a letter box. If, contrary to this rule, a letter marked "Registered" be dropped into a letter box, it will, *if directed to any place in the United Kingdom or the British Colonies*, be liable to a registration fee of 8d. instead of the ordinary fee of 2d.

## INLAND REGISTERED NEWSPAPERS.

**Prepaid Rate.**—On each registered newspaper, whether posted singly or in a packet, the postage when prepaid is one halfpenny; but a packet containing two or more registered newspapers is not chargeable with a higher rate of postage than would be chargeable on a book packet of the same weight, viz., one halfpenny for every 2 oz. or fraction of 2 oz.

**Unpaid Rate.**—A newspaper posted unpaid and a packet of newspapers posted either unpaid or not sufficiently paid, will be treated as an unpaid or insufficiently paid book packet of the same weight, and charged 1d. for every 2 oz. or fraction of 2 oz., deducting the amount of any stamp or stamps affixed.

## INLAND BOOK POST.

Book packets are charged ½d. for every 2 oz. or fraction of 2 oz. No book packet may exceed 5 lb. in weight, or 18 inches in length, 9 inches in width, and 6 inches in depth. A book packet must be open at both ends.



**POST OFFICE TELEGRAMS.**

The charge for twelve words or less is 6d., and  $\frac{1}{2}$ d. per word afterwards. Every word, including the addresses, is charged for. Names of towns and villages are counted as one word; thus Malvern Wells, which, under the former rules, counted as two words, are now only one; and figures are counted at the rate of five figures to a word: thus 344, Oxford Street, which formerly counted as five words, are now only three. Initial letters are still charged for as one word, London district initials excepted.

**LONDON—PARIS TELEPHONE.** Open to the public day and night.

**MONEY ORDERS FOR THE UNITED KINGDOM.**

For sums not exceeding £1 .. .. .	2d.
" exceeding £1 and not exceeding £2 .. ..	3d.
" " £2 " £4 .. ..	4d.
" " £4 " £7 .. ..	5d.
" " £7 " £10 .. ..	6d.

**TELEGRAPH MONEY ORDERS.**

Money may be transmitted by Telegraph Money Order between all Head and Branch Offices in the United Kingdom authorised to transact Telegraph and Money Order business. The Commission is—

For sums not exceeding £1 .. .. .	4d.
" above £1 and not exceeding £2 .. ..	6d.
" " £2 " £4 .. ..	8d.
" " £4 " £7 .. ..	10d.
" " £7 " £10 .. ..	1s. 0d.

**MONEY ORDERS PAYABLE ABROAD.**

Money Orders payable abroad are issued in the United Kingdom at the following rates:

If payable in France, Switzerland, Belgium, Denmark, Germany, Italy, the Netherlands, Malta, Gibraltar, Constantinople, Norway, Heligoland, or Smyrna—

On sums not exceeding £2 .. .. .	6d.
" exceeding £2 and not exceeding £5 .. ..	1s. 0d.
" " £5 " £7 .. ..	1s. 6d.
" " £7 " £10 .. ..	2s. 0d.

**POSTAL ORDERS**

For certain fixed sums, from 1s. up to £1, are now issued and paid at all Money Order Offices in the United Kingdom, and at Malta, Gibraltar, and Constantinople.

The following are the amounts for which Postal Orders are issued, together with the Poundage payable in respect of each Order:—

Amount of Order.	Poundage.	Amount of Order.	Poundage.
1s. .. .. .	$\frac{1}{2}$ d.	4s. 6d. .. ..	1d.
1s. 6d. .. ..	$\frac{1}{2}$ d.	5s. .. ..	1d.
2s. .. .. .	1d.	7s. 6d. .. ..	1d.
2s. 6d. .. ..	1d.	10s. .. ..	1d.
3s. .. .. .	1d.	10s. 6d. .. ..	1d.
3s. 6d. .. ..	1d.	15s. .. ..	1 $\frac{1}{2}$ d.
4s. .. .. .	1d.	20s. .. ..	1 $\frac{1}{2}$ d.

Broken amounts may be made up by the use of postage stamps not exceeding fivepence in value affixed to the front of any one Postal Order.

**STAMPS.**

Postage stamps, which may be used for Telegrams and certain purposes of Inland Revenue, are of the respective values of  $\frac{1}{2}$ d., 1d., 1 $\frac{1}{2}$ d., 2d., 2 $\frac{1}{2}$ d., 3d., 4d., 5d., 6d., 9d., 10d., 1s., 2s. 6d., 5s., 10s., and 20s. Halfpenny and Penny Stamps are used for Receipts.



## POST CARDS.

Post Cards bearing a halfpenny impressed stamp are available for transmission between places in the United Kingdom only. They are to be obtained at all Post Offices, at the following rates:—

Stout Cards.				Thin Cards.			
1 ..	$\frac{3}{4}d.$	6 ..	$3\frac{3}{4}d.$	1 ..	$\frac{3}{4}d.$	6 ..	$3\frac{1}{2}d.$
2 ..	$1\frac{1}{4}d.$	7 ..	$4\frac{1}{4}d.$	2 ..	$1\frac{1}{4}d.$	7 ..	$4d.$
3 ..	$2d.$	8 ..	$5d.$	3 ..	$1\frac{3}{4}d.$	8 ..	$4\frac{1}{2}d.$
4 ..	$2\frac{1}{2}d.$	9 ..	$5\frac{1}{2}d.$	4 ..	$2\frac{1}{4}d.$	9 ..	$5d.$
5 ..	$3d.$	10 ..	$6d.$	5 ..	$2\frac{3}{4}d.$	10 ..	$5\frac{1}{2}d.$

Foreign Postal Cards, 1d.,  $1\frac{1}{2}d.$ , and 2d. each.

## INLAND PARCEL POST.

The maximum weight of a Parcel which can be sent by Parcel Post is 11 lb., and the charge, after 3d. for the first Pound, will be *Three Halfpence per Pound*, viz:—

						s.	d.
Not exceeding 1 lb.	..	..	..	..	..	0	3
Exceeding 1 lb. and not exceeding 2 lb.	..	..	..	..	..	0	$4\frac{1}{2}$
" 2 "	"	"	"	3 "	..	0	6
" 3 "	"	"	"	4 "	..	0	$7\frac{1}{2}$
" 4 "	"	"	"	5 "	..	0	9
" 5 "	"	"	"	6 "	..	0	$10\frac{1}{2}$
" 6 "	"	"	"	7 "	..	1	0
" 7 "	"	"	"	8 "	..	1	$1\frac{1}{2}$
" 8 "	"	"	"	9 "	..	1	3
" 9 "	"	"	"	10 "	..	1	$4\frac{1}{2}$
" 10 "	"	"	"	11 "	..	1	6

These charges cover the entire service, and leave nothing to be paid by the addressee on delivery.

Parcels can be Registered, and in the event of loss or damage, compensation is given according to fee paid. The limit of compensation for a fee of 2d. is £5; 3d. £10; 4d. £15; 5d. £20; 6d. £25.

The dimensions allowed for an Inland Postal Parcel are:—

Maximum length .. .. . 3 ft. 6 in.

Maximum length and girth combined 6 ft. 0 in.

## COLONIAL PARCEL POST.

Generally speaking, the rules and regulations are similar to those relating to Inland parcels, with the addition that every parcel must have a customs declaration respecting the contents. This must be on a form obtainable at any Post Office; no duties are to be paid; they will be collected on delivery. The Parcel must contain no letter, nor may another parcel addressed to a second person be enclosed. To Gibraltar neither arms nor ammunition may be sent; nor may opium be sent to India (including Burmah) or Aden.

Parcels to certain British Colonies and Possessions can be Insured.

The charges are to:—

	Not exceed- ing	s.	d.		s.	d.
India and Burmah ..	1 lb.	1	0	each additional lb.	0	8
Hongkong .. .. .	"	0	10	"	0	6
Cape Town .. .. .	"	0	9	"	0	9
Other places at Cape	"	1	0	"	1	0
Straits Settlements	"	0	9	"	0	6
Ceylon .. .. .	"	0	9	"	0	6
Labuan .. .. .	"	0	11	"	0	8
Malta .. .. .	"	0	8	"	0	4
Egypt .. .. .	2 lb.	1	3	"	0	5
Gibraltar .. .. .	1 lb.	0	8	"	0	4
West Indies .. .. .	" 7d. to 9d.	"	"	"	"	" at same rate



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