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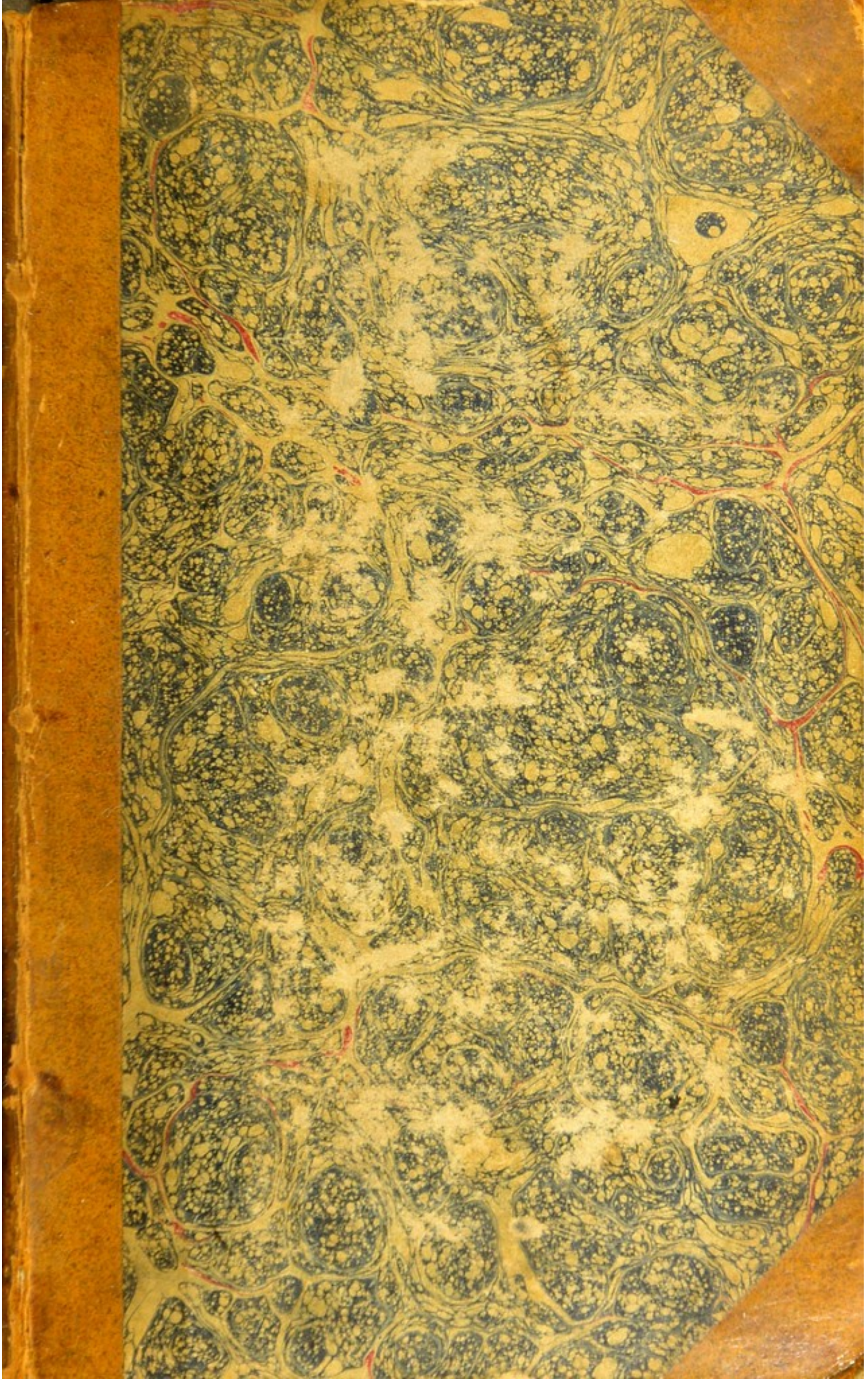
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AN INTRODUCTION

TO

MEDICAL LITERATURE,

INCLUDING

A SYSTEM

OF

PRACTICAL NOSOLOGY.

INTENDED AS A GUIDE TO STUDENTS, AND AN ASSISTANT TO PRACTITIONERS.

TOGETHER WITH DETACHED ESSAYS,
ON THE STUDY OF PHYSIC, ON ANIMAL CHEMISTRY,
ON CLASSIFICATION, ON THE BLOOD, AND
ON CHEMICAL AFFINITIES, ON THE MEDICAL EFFECTS OF CLIMATES.

BY THOMAS YOUNG, M.D. F.R. & L.S.

FELLOW OF THE ROYAL COLLEGE OF PHYSICIANS,
AND PHYSICIAN TO ST. GEORGE'S HOSPITAL.

LONDON:

Printed by B. R. Howlett, 49, Brewer Street,

FOR UNDERWOOD AND BLACKS, 32, FLEET STREET, AND 40, WEST SMITHFIELD; CALLOW, CROWN COURT; AND JOHNSON AND CO. ST. PAUL'S CHURCHYARD.

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1813.

TO THE

GOVERNORS

OF ST. GEORGE'S HOSPITAL

THIS WORK IS DEDICATED

BY THEIR MUCH OBLIGED

AND VERY OBEDIENT SERVANT

THE AUTHOR.

PREFACE.

In a science so complicated and obscure as that of Physic, the want of some direction for the assistance of a student has been the more felt, as the difficulty of the execution of such a work has been greater. Some of the most respectable names have indeed appeared on the title pages of books, which profess to afford such assistance: but the state of medical knowledge is so much altered since the days of Boerhaave and Haller, that the courses of study, recommended by them, can certainly not be pursued at present without great loss of time. In no department of human knowledge is the work of literary discrimination more necessary than in physic; in none is it more difficult, and in none has it been more neglected, at least in this country. Perfection indeed, in a work of this kind, is absolutely unattainable; we can only attempt to point out a sufficient number of good books;

but where so many thousands have been written, even on single diseases, we can never be positively certain that, among the still greater number which must necessarily be left unnoticed, there may not be many equal, or even superior, to those which have been recommended.

The nonexistence of any work in the English language, resembling that which is now offered to the public, while the subject is of the most undeniable importance, must be admitted as an apology for its appearing with many imperfections, which, although they might have been, and may yet be diminished, by a greater portion of labour and attention, are still in some degree obviously inseparable from the nature of the undertaking.

About twelve years ago, I had conceived, and was preparing to pursue, the design of executing a detailed and general work on the actual state of the practice of physic: my plan was interrupted by the delivery and subsequent publication of a course of lectures on natural philosophy; after this, however, it was so far resumed, as became necessary for the preparation of a short course of

lectures on the elements of the medical sciences, which was read, for two successive years, at the Middlesex Hospital. The classifications, which are here attempted, were the result of the consideration necessarily required, in such a general discussion of the different departments of the subject. When I commenced the undertaking, I was disposed to acquiesce in the nosological arrangement of Dr. Cullen, as being the most generally approved and employed in this country: but upon proceeding further in the task, I found it replete with such irregularities and inconsistencies, as appeared to me to afford insuperable objections to its adoption, and I could not help being persuaded, that nothing short of the eminent talents of the author, as a teacher and a writer, could have induced the medical public to tolerate the substitution of such a classification, for the less objectionable ones which had preceded it. I will not say with Ploucquet, that Cullen "has done little or nothing for the improvement of nosology:" but in my opinion, his merit in this department of science is confined to the curtailment of some of the redundancies of Sauvages, and to the correct description and distinction of a certain number of

species of diseases: his genera, his orders, and his classes, are lamentably deficient in the essential qualities of a logical and systematical method. Of this nothing can be a stronger proof than the numerous list of diseases, which, from the defective constitution of his classes, he has been obliged to insert in an appendix, having no place in the system to which they could with propriety be referred: an imperfection which not only implies a want of a clear view of the relations of the diseases immediately concerned, but a radical error in the fundamental divisions of the whole subject, which cannot have been established on natural grounds, while any part of it is thrown out of the general order, as if it had no connexion with the remainder. The inconsistencies of the specific with the generic, and of the generic with the classical, characters of Dr. Cullen's Nosology, are so obvious and so numerous, as easily to be observed even by a superficial reader.

It is true that we must not expect the same rigid accuracy in medicine, that may be obtained in some of the departments of natural history, since in fact many of the distinctions which are requir-

ed in a nosological system, are rather established for the sake of practical convenience, than strongly and immutably characterized by nature: but the more nearly we approach to this accuracy, the more shall we be likely to diminish the number of imperfections, and to leave at last such only, as unavoidably arise out of the nature of the subject.

As an illustration of the path which ought to be followed in such cases, I have thought it right to make some extracts from a work, which contains the most correct and elegant principles of systematical arrangement, the Philosophia botanica of Linné: and I have been the more disposed to bring forwards the Linnaean precepts on this occaions, as they have been too little observed by many later labourers in those departments of science, which had been so much improved by their influence, in the hands and under the auspices of their illustrious author. Notwithstanding the irregularities which embarrass the classification of diseases, I have, in general, been able to accommodate the nosological arrangement, which I have ventured to propose, to the

strictest rules of the Linnaean philosophy. It happens very frequently, even in botany, that one species requires to be pointed out, in the synoptic view, as often or always entitled to be arranged in a different class or order from that, under which it is most naturally placed with others of the same genus: a similar reference is very often required in nosology; nor can the most judicious arrangement ever be complete without it. There are indeed many cases in which it appears to be simply a matter of discretion to determine, which of a connected train of symptoms should be considered as characterizing the disease: in such cases the insertion of references of this kind, under the respective heads, affords the only possible solution of the difficulty.

In denominating this arrangement a system of practical nosology, the term practical has not been employed as an idle epithet, or as a lure to attract the attention of those who are averse to mere speculation, but as implying that all the definitions of diseases, which are introduced, are supposed to be applicable, and to be capable of being ascertained, during the life of the patient, and during

the continuance of the disease: in contradistinction to anatomical nosology, on the one side, and on the other to mere metaphysical or theoretical distinctions, and to enumerations of symptoms accidentally connected, or of causes, capable of endless variation and combination.

Of Dr. Cullen's classes, I have been able to retain only two without much deviation from their general character, the Neuroses, to which I have given the more appropriate denomination Paraneurismi, or Nervous diseases, and the Pyrexiae, which nearly correspond to my Parhaemasiae, or Sanguine diseases, an appellation under which I have included an order of inflammations and haemorrhages without fever. The Cachexiae of Cullen appear to me to be incapable of a correct definition, and the Locales to be wholly undistinguishable, by any sufficient criterion, from general diseases. Most of the genera contained in these classes, I have distributed among the Secretory and Structural diseases, which I have entitled Pareccrises and Paramorphiae; a few others, together with the greater number of surgical, and all obstetrical diseases, constitute my

fifth class, Ectopiae, comprehending Mechanical or other affections independent of any morbid derangement of the vital powers; a class separated by a very natural distinction from all the rest. In the arrangement of the Materia medica, I have endeavoured to avoid the use of terms destitute of distinct and definable meaning; but I am by no means confident, that further investigations of the properties of medicines may not hereafter lead to a simpler and better classification.

The collection of literary information, and of references to various authors, is a step which ought always to be preliminary to the execution of a detailed treatise on any department of science; it was therefore a necessary part of the design which I have already mentioned. Having completed this collection, as far as I have thought it necessary, I have been principally induced to lay it separately before the public, by the approbation which has been bestowed on the second volume of my Lectures on Natural Philosophy, consisting principally of a similar methodical catalogue of the literature of all the subjects, which had been explained, in an elementary manner, in

the first volume. How far I may hereafter prosecute the original design of publishing an extensive work on the practice of physic in general, must be determined by many circumstances which I cannot at present foresee.

It is true, that the industry of Ploucquet has furnished the medical practitioner with a most extensive and inestimable index of the contents of almost every medical work of importance that has ever been published. But, in the first place, the work is scarcely to be had in this country, and not without a considerable expense in any other: in the second place, it is alphabetical, leaving him who consults it always in uncertainty whether he may not have failed of obtaining a considerable part of the information which it contains, for want of knowing under what appellation he ought to look for it: and thirdly, from the mere multiplicity of matter, it is wholly useless as a guide to a student, or to any one who wishes to extend his researches beyond a particular disease. That the selection which I have made has always been the best possible, I have not the presumption to imagine: on the contrary, I have laid down certain rules with

respect to the works most particularly quoted, which, though they appear on the whole to be advantageous, have occasioned the apparently unnecessary introduction of several insignificant articles; and without doubt many others of greater importance have been omitted; but these may probably be supplied without difficulty, by pursuing the subject in the authors to whom references have actually been made. I have not wished in general to go much further back than half a century for authorities respecting detached subjects: for example, I have only made a point of quoting the Philosophical transactions since the year 1750, when they were first published by the authority of the Royal Society: but the Edinburgh Medical essays, and other similar collections, I have uniformly employed from the commencement of their publication. The Edinburgh Medical commentaries and Journal, I have preferred to other works of a similar nature, as forming a longer and more complete series, and as being in general somewhat more select. It may perhaps be thought that an undue preference has sometimes been given to periodical works of this kind, which too often consist of the undigested observations of in-

experienced practitioners; but they are on the other hand more generally exempt from the effects of the merciless accumulation of irrelevant matter, which professed authors of books are not uncommonly tempted to introduce; and it would have been as invidious as difficult to assign to each individual contributor to these works his precise share of merit.

I have inserted no books but such as I conceive to be necessary to a complete medical library: those which are of the most established importance are distinguished by an asterisc: and those which every student ought to think himself obliged to peruse, in the course of his regular studies, by capital letters. Perhaps both of these distinctions ought to have been somewhat more liberally bestowed; but it is extremely difficult to lay down exact rules for a course of study, which may require to be materially varied, according to the opportunities and abilities of the individual. I have also distinguished another class of books and papers, by printing the names of their authors in Italics; these I consider as extremely deserving of attention, although not

absolutely indispensable to every medical student: it must however be observed, that this distinction has often been conferred rather with regard to the general character of the work containing the passage or essay quoted, or to the care which has been taken in ascertaining the identity of the disease, than to the individual merit of the matter contained in the papers quoted. The principal contractions employed in the references, as well as the synonyms of Cullen, Sauvages, and some others, will be found in their respective places in the index.

The subjects of the detached essays, which have been inserted, are so necessarily connected with the pursuits of every medical man, that they cannot be considered as misplaced, in a work introductory to medical studies. Their narrow limits, though they wholly exclude the idea of a complete exhaustion of their respective subjects, afford however a pledge, that they are not encumbered with superfluous matter: and perhaps the advantage of the reader has been more consulted in them, than the literary reputation of the author. The insertion of the doses of medicines, and of

the elective attractions of chemical substances, may be of no inconsiderable utility to young practitioners; and the less learned among the profession will not be wholly ungrateful for the care that has been taken, to assist their pronunciation, by a correct accentuation of all the technical terms, which occur in any department of the medical sciences.

Welbeck Street,
1 Feb. 1813.

T. Y.

CORRECTIONS.

Page 60, N. 43, *for* Gery, *read* Grey.
N. 44, *after* Fluátium, *insert*, or Fluórium.
after 5.7 ?, *add* (12.3 Berz.)
61, N. 1, *after* 48, *add* (32 Berz.)
N. 5, *for* (305?), *read* (30.5? 27 Strom.)
73, L. 15, *for* Hélicis, *read* Hel'icis.
89, L. 9, *for* Crytallinus, *read* Crystallinus.
114, L. 3, *after* 233, *insert*, produced 76 pigs, another sow 162.
129, L. 3, *for* médicine, *read* médecine.
138, L. 8 *from the bottom, for* vertetzungen, *read* verletzungen.
143, N. 24, *for* Amercorrhoea, *read* Amenorrhoea.
439, N. xii, 2, F, G, *insert*, When the larger doses of these ammoniacal medicines are given, they must be greatly diluted.
456, N. 22, *after* Dioscor., *insert* Scammonea. Cic.
483, L. 8, *for* 160, *read* 860.

CONTENTS.

I. *Preliminary Essay on the Study of Physic* Page 1
II. *Aphorisms relating to classification* 27
III. *Introduction to medical literature* 41
Medical literature in general 41
Critical journals 43
Historical works 44
Medical biography 44
Study of Physic 45
Profession of Physic 45
Generally and philosophically considered 45
In relation to conduct 46
With regard to public institutions 46
Collections relating to medical subjects 47
Collections of works and essays of single authors 50
General and miscellaneous works 54
Chemistry 56
Theoretical chemistry in general 56
Fundamental doctrines 57
Electrochemical science 57
Particular substances. Classification 58
Elements 58
Alkalis 60
Oxyds 61
Compositions 64
Acids 64
Semiacids 66
Salts 66
Semisalts 67
Elective attractions 67
Practical chemistry and Pharmacy 67
Apparatus 68
Preparations 68
Anatomy 69
Descriptive anatomy 69
Os-

Osteology Page 70
Structure of bone and cartilage 71
Forms of bones 71
Appendages of bones 71
Joints 71
Ligaments 71
Particular bones 71
Of the head 71
Of the trunk 72
Of the upper extremity 72
Of the lower extremity 72
Myology 72
Structure of muscles 73
Forms of muscles 73
Appendages of muscles 73
Particular muscles 73
Of the head 73
Of the trunk 74
Of the upper extremity 75
Of the lower extremity 76
Splanchnology 76
Glands about the head and neck 77
Viscera of the thorax 77
Viscera of the abdomen 77
Viscera of the pelvis 78
Dermatology 78
Angiology 79
Heart 79
Arteries. Tabular enumeration 79
Veins. Tabular enumeration 83
Absorbents 85
Neurology 86
Brain 87
Cerebral nerves. Organs 88
Nose 88
Eye 88
Ear 90
Spinal nerves. Table 91
Practical Anatomy 93
Physiology 93
Of health. General works 93
Miscellaneous works 94
Comparative physiology and anatomy 94
Sensation and nervous energy 96
Vital powers in general 96
Animal electricity 96
Nervous system in general 97
Brain

Brain Page 97
Nerves 97
Organs of sense 98
Sensations 99
Faculties of the mind. Psychology 100
Memory 101
Association 101
Thought 101
Sympathy 101
Pathematology 101
Sleep. Torpidity 101
Expression. Physiognomy 102
Motion 102
Muscles 102
Bones 103
Particular associations 103
Walking 103
Swimming 103
Voice. Speech 103
Circulation 104
Blood 106
Respiration 106
Animal heat 108
Secretion 108
Fluids 109
Organs 109
Process 110
Digestion 111
Absorption 112
Nutrition 113
Generation 113
Growth 115
Of disease 116
Pathogony. General pathology 116
Native varieties of mankind 117
Temperament 117
Symptomatology 118
Aetiology of disease 118
Diseased action 119
Spontaneous cure 119
General therapeutics 120
Nosology and Practice 122
General and miscellaneous works 122
Surgery 129
Morbid appearances 131
Local affections, or diseases of certain parts 133
Relating to particular ages and sexes 134
Re-

Relating to employments Page 135
Relating to climates 136
Exotic medicine 137
Popular medicine 137
Veterinary medicine 137
Forensic medicine 138
Classes and Orders of diseases 140
Synopsis of genera 141
Particular genera and species 148
1. *Paraneurismi. Nervous diseases* 148
For the genera see the synopsis, p. 141.
2. *Parhaemasiae. Sanguine diseases* 197
Phlogismi. Flushes 197
Pyrexiae. Fevers 209
3. *Pareccrises. Secretory diseases* 262
Epischeses. Retentions 262
Apocenoses. Effusions 272
Cachochymiae. Cachexies 280
4. *Paramorphidc. Structural diseases* 295
Paraphymata. Local changes 295
Epiphymata. Eruptions 346
5. *Ectopiae. Mechanical diseases* 372
Acology 417
Sensible agents 417
Mechanical agents 417
1. *Climates* 417
2. *Habits* 420
3. *Clothing* 422
4. *Instruments and operations* 422
Chemical and vital agents. Pharmacology 425
Chemical agents 429
5. *Caustics* 429
6. *Antiseptics* 430
7. *Antidotes* 431
8. *Demulcents* 432
9. *Diluents* 434
Vital agents 436
Supporting strength 436
10. *Nutrients* 436
Causing action 437
Partially and temporarily 438
11. *Expergefacients* 438
12. *Excitants* 439
13. *Calefacients* 444
14. *Sudorifics* 445
15. *Errhines* 447
16. *Sialagogues* 447
17. *Ex-*

17. *Expectorants* Page 449
18. *Stomachics* 450
19. *Emetics* 452
20. *Cathartics* 453
21. *Carminatives* 458
22. *Diuretics* 459
23. *Emmenagogues* 461
24. *Epispastics* 462
25. *Suppuratories* 462
26. *Sorbefacients* 464
27. *Astringents* 466
Permanently increasing action and power 470
28. *Tonics* 470
Diminishing power of action or of sensation 474
Primarily 474
29. *Narcotics* 474
(30.) *Sedatives* 476
(31.) *Nauseants* 477
(32.) *Diaphoretics* 478
Secondarily 478
(33.) *Exhaurients* 478
Insensible agents 479
(34.) *Specifics* 479
IV. *Chemical Tables.* 481
Tables of simple affinity and solubility 481
Miscellaneous attractions 493
Table of double decompositions 494
V. *A Sketch of Animal chemistry* 497
1. *Nervous system* 497
2. *Blood* 498
3. *Respiration* 505
4. *Absorption* 507
5. *Secretion* 507
6. *Cellular membrane* 508
7. *Pus* 509
8. *Digestion* 511
9. *Bones* 517
10. *Muscles* 519
11. *Eye* 521
12. *Ear* 523
13. *Skin* 523
14. *Pelvic fluids* 525
15. *Milk* 531
Remarks on the laws of Combinations 533
Miscellaneous remarks from Berzelius 542
Analysis of cinchona 543
VI. *Remarks on the measurement of minute particles* 545

On

1. *On the particles of the blood and of pus* Page 545
2. *Description of the eriometer* 548
3. *Scale of the eriometer* 551
4. *Substances measured* 552
5. *Microscopical fallacies* 554
6. *Changeable colours* 556
7. *Glories* 559

VII. *An essay on the medical effects of climates* 561

I.

PRELIMINARY ESSAY

ON

THE STUDY OF PHYSIC.

WHATEVER may be the accidental irregularities inseparable from the operation of moral causes, it must necessarily be assumed as a general truth, without which all earthly motives for exertion would be annihilated, that every man's chance of success in his profession will be in some measure proportionate to his merits and his talents. In what degree fortuitous circumstances may be capable of influencing the regularity of the connexion, or the accuracy of the proportion, it is unnecessary and impossible to determine with certainty; but we may safely venture to assume, as an axiom, which it would be a mischievous folly to deny, that in the lottery of physic, as in all other lotteries, the chance of a man who holds ten tickets must be decidedly better than that of one who is possessed but of five; nor would the truth of this axiom be invalidated by a thousand instances of a supe-

riority of success accidentally united with inferiority of pretensions. However inadequate the possession of superior talents alone may be to insure the confidence of the public, it must be a mistaken opinion, although it has been asserted by persons of no ordinary observation, that a man of great abilities is morally incapable of being a good physician; and that even the most acute powers of mind would, in the practice of physic, become so effectually blunted by constant intercourse with nurses and invalids, as to lose all their original advantages. Dr. Radcliffe, who might have been esteemed a competent judge, told Dr. Mead, as a great secret, that the true way to succeed in physic was to use every body ill: but Dr. Mead used nobody ill, and succeeded better than Dr. Radcliffe. It is well to be familiarised to such paradoxes as these, in order to be prepared for the lesser contradictions and mortifications which will sometimes occur to the most fortunate practitioners. In fact there is no study more difficult than that of physic: it exceeds, as a science, the comprehension of the human mind: and those who blunder onwards, without attempting to understand what they see, are often very nearly on a level with those, who depend too much on imperfect generalisations, applied to facts, which can scarcely be subjected to any well marked analogy. Hence it may happen, that talents and labour may become useless for want of a proper direction: although, if they had been confined to the simple track of patient and detached observation, which alone is within the scope of the more humble

practitioner, they must at least have ascertained each fact with more care and greater precision than the mere empiric, and in all probability must have made some combinations of experience, which would have been beneficial to mankind and honourable to themselves. To assist in furnishing the student with a sufficient direction, for cultivating any particular department of his profession, in the most advantageous manner, is the principal object of this work.

Although it has been very justly observed, that no man has ever been truly great, without possessing a certain degree of enthusiasm, which has carried him beyond the direct and immediate pursuit of the ultimate object of his labours; it is still necessary to avoid with caution the common error of mistaking the means for the end, and directing too great a portion of the attention to the introductory departments of literature or of science. A person determined to obtain every accomplishment, which can be pointed out as subservient to the medical profession, and resolving to study every book which has been recommended with this view, might take up the select catalogue of medical works, published by Dr. Rothe, who professes to mention no book which he does not consider as good and useful; and, beginning with languages, might spend the first ten years of his studies without getting much further than the "Chinese," and twenty more before he came to those of the "Bohemians," and "gipsies"; to say nothing of the "logical, metaphysical, moral, political,

statistical, technological, agricultural, mathematical, geographical, chronological, genealogical, heraldic, diplomatic, numismatic, and historical" works which are to follow, before he enters on chemistry and anatomy.

There is indeed a perpetual and interminable contention between the advocates of the grand principle of the division of labour, which facilitates every operation by allowing its continual repetition, and the admirers of the more comprehensive grasp of a powerful mind, which can embrace the relations of all the various parts of the whole subject, and can illustrate and improve the science, by a comparison of its different departments, and by the new lights which they throw on each other: and the question extends to all other professions, and to the general education which is necessary to those who engage in them. Its solution must however depend, in great measure, on the nature of the acquirement which is proposed to be obtained. A mathematician may arrive at the highest possible degree of eminence in the different modes of calculation. without requiring any assistance from an accurate knowledge of different languages; a linguist may be completely master of all subjects of grammar and criticism, without the slightest acquaintance with geometry: and there are other branches of study, so confined within themselves, and so capable of accurate deduction and precise definition, as to be completely independent of all others, and to require the exercise of clear apprehension and

correct memory only for their pursuit. Other departments however defy all attempts to subject them to any didactic method, and require the exercise of a peculiar address, a judgment, or a taste, which can only be formed by indirect means: a composer of music, for example, would make himself ridiculous, if he attempted to put in practice the visionary proposition of Kircher, who states it as a problem, to be solved like those of the elements of Euclid, "the nature of an affection or passion of the mind being given, it is required to delineate it correctly in a musical composition." And it appears that physic is one of those departments, in which there is frequent necessity for the exercise of an incommunicable faculty of judgment, and a sagacity, which may be called transcendental, as extending beyond the simple combination of all that can be taught by precept. Nor is there any other mode of cultivating these powers, than by pursuing a much more extensive range of elementary study, than appears, to a common and superficial observer, to be in any way connected with the immediate objects of the profession. As a further illustration of these observations, I shall here translate the first chapter of the elegant little essay of Professor Vogel on the study of physic, which contains some remarks that claim the most serious attention from every judicious student.

"1. Perhaps there is no science, which requires so penetrating an intellect, so much talent and genius, so much force

of mind, so much acuteness and memory, as the science of medicine. For the full attainment of its proper and ultimate object, it requires also indispensably the possession of stability of judgment, rapidity of decision, and immoveable firmness and presence of mind; readiness of recollection, coolness, flexibility of temper, elegance and obsequiousness of manners, and a profound knowledge of mankind, and of the secret recesses of the human heart.

" 2. Learning alone, and knowledge, however extensively accumulated, of medicine and of other subjects connected with it, are not sufficient for forming a great physician: the high character of a perfect master of the art must be the result of a combination of a multiplicity of qualifications, which must partly be natural, and partly acquired and improved by laborious cultivation. However rare such a perfect union may be, no person should dare to enter the temple of Hygiea, who is not distinguished by very evident marks of a capability of acquiring it, and who is not possessed of that genius, without which all possible knowledge is insufficient to make a genuine and complete physician. " A man can " be neither a philosopher nor a physician," says Herz, " by " imitation or by rules, but by native genius alone." The inestimable advantage of a naturally acute judgment and delicate discrimination is no where more striking, as Freind has remarked, than in the profession of physic.

"3. Of all this the most convincing proofs will immediately occur to us. Medicine not only comprehends so very extensive a range of knowledge, but its truths are often so profound and so much concealed from a cursory inspection, so intricate, so much disguised, distorted and obscured by a multitude of delicate and invisible causes, that nothing less than the all commanding eye of the most enlightened understanding, than the all penetrating and all searching power of genius, can possibly recognise that which is hidden in darkness, can follow that which is remote into the last traces that it imprints, can distinguish certainty from opinion and probability, can separate the essential from the accidental, and finally can analyse and develope every subject of investigation so completely, as to leave no further doubt respecting any of its properties, which are cognisable by human means.

"4. Nor does any art, except that of war, require so much intrepidity, courage, and promptness in judging and in acting, as the art of physic. How often does the life of a patient depend on the decision of a moment! This precious moment, the timid physician, who is discomposed, and stupefied, and confused, by the unexpected appearance of danger, by unforeseen circumstances of doubtful import, and accidental occurrences of various kinds, or by the behaviour and personal character of the patient, suffers to pass away wholly or partially unemployed; since in this frame of mind,

he is incapable of seeing, judging, and acting correctly; and his impaired powers of reason can find no fixed point, on which they may rest, so as to act with their due effect.

"5. It becomes also on many accounts absolutely necessary, that he should lay a restraint on his passions, his inclinations and his feelings, which are so often and so variously excited; and that he should support with patience the most disagreeable sensations, whenever the good of the patient requires it; that he should completely forget himself, when the situation and circumstances of the patient call for sacrifices, which are of importance for his tranquillity and his recovery; and that even the most untoward and disgusting conduct of the patient, whatever difficulties, and contradictions, and impediments may occur, should not prevent his applying the whole force of his intellect, and the entire powers of his invention, to the investigation and consideration of all the symptoms of the disease, and to the conducting and combining the means of recovery, in the best possible manner, with the cool wisdom of a mind perfectly at its ease.

"6. There is scarcely any literary profession which requires the manners and behaviour to be so decorous, so polished, so obsequious, so courteous, so gentle, so obliging, so cautious, and yet so manly and in every respect dignified, as must be expected of a physician. His mind must therefore be highly cultivated by a good education, and by knowledge

of mankind and of the world. Without this knowledge, he will be subject to err at every step that he takes, and will be in perpetual danger of injuring and disgracing the profession which he follows. Without this, he will every where find impediments insuperable to all his learning: all his information will be useless, obscured, disputed, or misunderstood, if he raises prejudices and excites disgust, by an unfriendly, obstinate, inflexible, ungraceful, inconsiderate, stiff, coarse, or bashful behaviour: and his embarassment will perpetually disturb the free operation of his faculties, and impede the application of his knowledge. It is the physician's duty, to take every man, who entrusts himself to his care, as he is, with all his failings, and to treat him in such a manner, as to obtain his confidence, and to fulfil his wishes. Men of all classes and ranks in life, of all dispositions, capacities, characters, and opinions; in every imaginable situation, of every age, constitution, and temper, have equal claims to his assistance and his attention. He must know how to give every one his due; and wherever his profession calls him, how to adapt his conduct to the circumstances in which he finds himself. The wisdom, the selfdenial, the grace, the dignity, the decency, the noble frankness and openness of heart, the accommodating disposition and agreeable manners, which are required of him, can only be obtained by means of a good education, united with opportunities of becoming acquainted with the world, and habits of intercourse with society. It is extremely to be lamented, that

young men of the best families, who must be supposed to have the advantage of the most refined education, seldom devote themselves to the study of physic. To this remark, Great Britain affords some exceptions; but, as far as I know, they are scarcely to be found in any other country.

" 7. Those persons therefore must never expect to acquire what is absolutely necessary for the practice of physic, much less to distinguish themselves by superior excellence, who are as deficient in the qualities of the mind which have been mentioned, as in moral cultivation and polished education, and who consequently have not learned, and have not been accustomed, to accommodate themselves to the world and to individuals, to subdue their passions when it is required of them, to bear the burdens of their employment without repining, and to think and to act uninfluenced by conceit, by caprice, and by senseless prejudices. Such persons as these, if, in spite of their deficiencies, they will still persist in the pursuit of physic, can only become, for want of talent, shortsighted, stupid, spiritless, superficial, useless and dangerous practitioners; and for want of good sense, and cultivation, affected, stiff, rough, quarrelsome, vainglorious, empty, presumptuous, proud and mean members of society; who can at best succeed with the lowest ranks of the populace only; who will necessarily expose to ridicule themselves and their profession, and who must perpetually shock the feelings of every refined and well educated man. It cannot

be expected that all the most desirable qualities should be found at once in perfection in the character of every young physician. By habit, and by daily occurrences, which call forth its powers, the mind must gradually assume the wished for stamp. But without all previous disposition, and without all preparation, such an object is absolutely unattainable.

" 8. Since the practice of physic is unavoidably connected with so many circumstances which must greatly agitate a weak, delicate, and sensitive frame of body, and make the individual incapable of properly fulfilling all his duties, it becomes also highly desirable that those, who devote themselves to this profession, should possess a strong constitution, and an uninterrupted state of good health; and that those, who are obliged to make great sacrifices for the preservation of their own health, should choose for themselves some other employment, rather than the care of the health of others. It is especially necessary that the organs of sense and respiration should be in their utmost perfection; and every physician should take the greatest possible care to preserve and to strengthen them: the nerves should be firm and strong; not insensible, but not capable of being thrown into tumultuous agitation upon every slight irritation, and thus so liable to interrupt perpetually the cheerfulness of mind which is so highly desirable and so absolutely necessary to the physician. Disturbances by night, fatiguing journeys,

infectious diseases, numerous anxieties, and exhausting exertions, together with the sudden alterations of temperature which are frequently unavoidable, certainly require the possession of a strong constitution, and a state of health capable of opposing a firm resistance to all causes of disease.

" 9. Finally, the study of physic requires also a certain degree of affluence, since on account of the high price of books, apparatus and instruments, of the fees of various kinds required in the pursuit of instruction, and the expense of travelling in foreign countries, which is so necessary to a physician, it cannot be undertaken without the possession of ample funds. Nor can a young practitioner, who has just finished his studies, expect, for a considerable time, to derive so much emolument from his profession, as to enable him to live without assistance from his private fortune. It is therefore idle to attempt to facilitate the study of medicine to those who are in extremely narrow circumstances. In France the most indigent often devote themselves to physic: hence arises in that country the abundance of medical men, void of all education, who do so little honour to their profession. For a similar reason it is rather to be deprecated than desired, that the expense of living at a university should be extremely lowered, especially if it is at the same time the native place of the student; and I fully agree with Tissot, that if it were practicable to prevent it, no person ought to be

allowed to study physic in his native city. At the same time it cannot be denied that these general remarks may require particular exceptions, where distinguished genius, or other favourable circumstances, entitle an individual to be exempted from their operation."

Such being the general outline of the character which the medical student must hold up to himself as the object of his pursuit, it remains to suggest some hints respecting the steps, by which he is the most likely to succeed in its attainment. The appropriation of the earliest period of life belongs rather to the subject of general than professional education: but it is not so much a matter of indifference as is sometimes supposed, at what age the work of literary instruction is to commence. In my opinion, the earlier the rudiments of learning are acquired the better: there is no danger that a child's health should suffer from moderate application at any age. The study of languages, or rather of the authors who are universally read in the usual modes of learning languages, appears to be, for many reasons, the best employment for the years of childhood, together with the exercise of the memory in learning by heart and rehearsing, especially poetry: and such pursuits may be continued with advantage, whether at home, or at a private or public school, with the addition of arithmetical and mathematical learning, until the time of going to a university, which, if a boy has been diligent, need not be later than sixteen. At nineteen or twenty then, we may sup-

pose the study of physic to commence, and that five or six years are to be allotted to its completion; the previous time having been spent in acquiring a sufficient proficiency in the Latin, Greek, French, Italian, and German languages, in mathematics and natural philosophy, and perhaps the elements of botany and chemistry, besides drawing and some other similar accomplishments. There will be time enough after this for physic; and if the student has been placed at a university where no physic at all is to be learned, he will have no occasion to complain that his time has been mispent. Indeed a metropolis must possess advantages for the study of physic, and disadvantages for many other studies: hence it seems a natural consequence that a university ought not to be the principal school of physic in any country. The example of Edinburgh must be allowed to prove that such a combination is not altogether impracticable: but it will not readily be granted by the inhabitants of South Britain, that we do not possess in our universities a greater fund of abstract science, and in our metropolis more favourable opportunities for the acquisition of medical knowledge, than is any where to be found in Scotland, or perhaps in the rest of Europe.

Probably however the first year of medical study cannot be better spent than in an attendance of the lectures which are delivered in Edinburgh: they are in general more elementary there than elsewhere; and a person, wholly unacquainted with

the subject, will find no difficulty in readily comprehending them. It is true that, on account of the excellence of the clinical and practical lectures, it has been more usual to visit Edinburgh at a period later than even the second year; but to me the acknowledged superiority of these lectures did not appear a compensation for the loss of time in attending others, which could only be repetitions of what had before occurred in the two first years spent in London. The choice of lectures must naturally depend on the previous acquirements and abilities of the student: but there is no danger of his attending too many in the beginning: since he will at first have little occasion to read, or to employ any more of his time with reference to his pursuits; and he need not be afraid of filling up as many of his hours with lectures, as his powers of attention enable him to undertake.

The practice of taking notes from lectures is of clear and decided utility: and every student ought to make it a point to keep correct and complete notes of one course of lectures, on each department of medical science. But it will seldom be advisable to take notes of a first course, where two of the same kind are to be attended; in order that the mind may, in the first instance, be wholly devoted to following and comprehending the lecturer. The use of short hand I consider as every way to be reprobated: it converts the writer into a mere machine: it employs him in copying words, instead of digesting and compressing thoughts; and unless he has two

or three more hours to bestow on the same subject after the lecture, which very few lectures are worth, his manuscript remains in a form almost as inconvenient for reference, as if it were written in an unknown language. I have never yet heard a lecture, which I found it difficult to follow, as minutely as I desired, by notes written in a common legible hand, moderately abbreviated: and having so written them, I have generally thought them more useful to myself, than a perfect transcript of the words of the professor. In a foreign country, the habit of taking notes becomes an excellent study, for the attainment of a facility of writing the language: at first one feels the necessity of taking notes in one's own language, for want of a readiness in the foreign idiom; but by degrees one acquires a facility of writing in that of the lecturer. Not that I should much recommend the attendance of medical lectures in any other country, in preference to the variety which may be found in our own. The modest Dr. Rothe indeed asserts, that "the Germans have left all other nations far behind them in almost every department of physic:" but Professor Vogel thinks otherwise, and I cannot forbear to introduce here a second extract from the work which I have already quoted.

"The concise, energetic, and philosophical language of the English becomes every day more and more indispensable to the physician: he must not therefore omit to study it with particular attention. The greatest masters of the art have

lived and still live in England, and have usually written, and continue to write, in their own language.—There are also among the English as well as the French authors not immediately medical, a great number that may be read, with equal pleasure and advantage, by a physician who is desirous of forming and refining his taste, of elevating his mind above what is common place and insipid, and of enriching and embellishing it with food of the noblest nature. The works of British genius especially are so full of great and lofty, and heart elevating, and acute and subtile thoughts and representations, founded on the most profound knowledge of man and of the world, that scarcely any other language is capable of affording the student so rich a harvest of valuable productions, and of bestowing on the mind so much force, life, and penetration." P. 25.

But whatever may be the merit of the German physic, it exists as a written system, and may be learned from books exactly as it is delivered from the professorial chairs. In practical anatomy the great cities of the continent have some advantages even over London: but these advantages are of such a nature, as to affect the purse of the student more materially than the progress of his studies. At the same time it cannot be questioned that the hospitals of Paris, and especially of Vienna, may afford, at a proper period, much that is highly worthy of a young physician's observation.

After a first winter spent in Edinburgh, and a summer employed in botany, chemistry, and other preliminary studies, with the interposition of such occasional relaxation as the necessary travelling may easily be made to afford, the next winter ought to be devoted to practical anatomy in London: and this study, together with that of physiology, will occupy very properly the student's whole time. As the spring advances, he must become a pupil of an hospital, which must continue to be his principal and daily object at every subsequent period, while practical lectures on physic, surgery, midwifery, and the materia medica, should be attended with diligence, whatever branch of the profession he has chosen for his particular occupation: for however necessary it may be to separate the different departments of practice, no part of the elementary or preliminary studies should be wholly neglected by a student of any description. A physician ought not to hold himself excused from patient and minute dissection, nor should a surgeon be satisfied without a competent knowledge of the learned languages. Mr. Parkinson would have even apothecaries educated at a university: but it is too probable that they might, under such circumstances, form habits and connexions less calculated to make them pursue their appropriate employments with diligence, than if they adhered more closely to the established modes of education.

If it were necessary to assign the age at which each of the studies which have been mentioned ought in general to com-

mence, we might prescribe for the preliminary education a form somewhat resembling this.

At 2, 3, or 4,	Reading and reciting English.
6	Latin. Writing.
8	Arithmetic.
10	Greek.
12	French.
14	Italian. Geometry.
16	German. Mathematics.
17	Natural Philosophy. Drawing.
18	Chemistry. Botany.

The studies more strictly medical will be distributed nearly in this manner.

First year	Anatomy. Theory of Medicine. (Clinical Lectures.) Continuation of Chemistry and Botany. Mineralogy.
Second	Practical Anatomy. Physiology. Hospital. Practice of Physic.
Third	Comparative Anatomy. Surgery. Midwifery. Materia Medica. Clinical Lectures.

If lectures were perfectly composed and delivered, and perfectly remembered, they would supersede the necessity of books of any kind: and on the other hand, a well selected course of reading would be very little inferior to oral instruction, except with regard to the inspection of preparations, and the practice of dissection and operations. But in

a pursuit so extensive as that of medicine, it is necessary to employ each of these modes of study with almost as much diligence as if we depended entirely on it for information; and it becomes desirable, that a course of reading should be pointed out, which may either be adopted collaterally with the attendance of lectures, or subsequently to it, or in both ways. Thus it will be highly proper to read some elementary chemical work, before any chemical lectures are attended; and during dissection, some of the best books of anatomy should be employed, for comparing the descriptions with the actual appearances: and a similar mode should be adopted with respect to other departments.

The principal course of practical reading will however more properly follow the completion of the established plan of elementary study; beginning with any department which may be chosen for an academical discussion or dissertation: and after graduation, in the many years which must elapse without much active employment, continuing the pursuit, by comparing the notes of lectures with the best authors in each department, and reducing the memorandums which have been made in reading, into a uniform system with those notes.

Nor will there, in all probability, be any want of time for so extensive an undertaking: a sensible writer on medical education asserts, that he has literally "known a physician above

fifty years of age objected to for his youth." In provincial situations, the want of competition will frequently lead to a much earlier practice; but in a metropolis, it is indispensably necessary, that a physician should be prepared, whatever his abilities may be, to pass at least ten years after his first establishment without the slightest emolument from his profession; and he may think himself singularly fortunate if, at the expiration of this period, he is enabled to derive a competent subsistence from it. In the mean time he must have sufficient resolution to resist the many allurements which will present themselves, to divert him from the exclusive pursuit of the profession which he has chosen, unless he should find them so powerful, as to induce him in any degree to sacrifice his views in physic to other considerations. The public is inclined to think, and not without something like reason, that the abilities of different individuals are pretty nearly equal; and that if any one has acquired distinguished excellence in a particular department of study, he must have bestowed so much the less time and attention on other departments: of course if he excelled in more than one line out of his profession, the natural inference would be so much the stronger: and whether this may be fair or not, it is at least fair that direct evidence should be produced or imagined, of a devotion to medical pursuits, before medical confidence can reasonably be expected.

Hence it becomes obviously desirable to a young physician

to obtain some public appointment, which may ensure him a certain degree of practice, and which may proclaim to the world that he cannot be wholly inexperienced. An army physician has often a considerable advantage, in acquiring both experience and emolument, at a time when he might otherwise be unemployed: but his experience is sometimes less appreciated in civil life, and in a different climate, than he has naturally been induced to expect it should be. The appointment of a physician to an hospital has so generally been considered as a very eligible introduction to practice, that it is scarcely necessary to mention it, except with a view to express a caution against overrating its advantages. A physician of the highest eminence has been heard to declare, that he could never trace a single patient to his immediate connexion with a well known hospital, which subsisted for many years; and to give it as his opinion, that little less was to be learned by a diligent attendance of an hospital as a pupil, than by being employed as physician to it. It appears to me that the most material benefit to be derived from such an appointment, with regard to the extension of private practice, depends on the notoriety, that the physician must be unavoidably in the habit of prescribing continually, for a multiplicity of patients, in all manner of diseases: but it is certain that many have possessed this advantage for a number of years, without obtaining that benefit in any material degree. At the same time few, if any, have ever risen to eminence without it, unless they had some other very ostensible

means of forming and supporting a general connexion in a medical capacity.

Mr. Edgeworth, in his Essays on professional education, is very much disposed to deny the precarious tenure of medical fame, and, in opposition to the opinion of one of the best judges of life and of morals that the last century produced, very strenuously asserts, that "all the world is competent to decide on this one simple, essential point, whether a physician's patients die or recover under his care." But in the first place, it is obviously impossible, that the public should obtain any extensive or accurate knowledge whatever of the history or event of any great variety of cases, that occur even to a physician already eminent: and in the second place, if such a detail were before the public, it would often surpass the utmost sagacity of the best informed medical men themselves to determine, how far the event of each case was unavoidable, and how far it depended on the treatment.

This uncertainty may be illustrated by the example of the very candid Dr. Brown, who has lately examined, with great apparent accuracy, the records of a public institution, conducted by men of the highest celebrity in their profession, and has thought himself under the disagreeable necessity of inferring from them, that the course of fever is nearly, if not fully, as tedious and as severe, when treated by the best esta-

blished remedies, as when wholly left to nature. Happily however for the credit of physic, this conclusion appears, upon proper consideration and calculation, to be completely unwarranted by the registers from which he has deduced it. In fact the results of about 300 cases of fever, admitted into the infirmary in question, may be very simply stated in this manner. The mean duration of the whole disease was 12 days: the mean time of admission was between the 6th and 7th day; but the mean duration of those cases, which were admitted at the commencement of the disease, was somewhat less than 9 days. Hence it may be inferred, not only that the duration was shortened at least 3 days by the early employment of medical agents; but also that this difference was the effect of a difference of only $3\frac{1}{2}$ days in the time of the whole treatment: since the remedies were employed for 9 days in the one instance, and for $5\frac{1}{2}$ in the other: consequently, that if these $5\frac{1}{2}$ days had been suffered to elapse without medical treatment, the whole period of the disease would have been lengthened 4 or 5 days by the omission, at least if we adopt the simplest supposition respecting the proportion of the cause and effect; and that the natural duration of the disease, thus determined, would have been about 16 days, instead of 12: so that the means employed must be allowed to have a claim to the merit of reducing the duration of the fever from about 16 days to 9; without taking into account the different proportion of fatal cases, which is not the immediate object of our author's investigation.

I have thought it necessary to enter into this examination of the facts advanced by Dr. Brown, which have hitherto been generally considered as authorising the inferences that he has drawn from them, because the discussion appeared tc be essential to the conclusion of an essay like the present: since if it were true that the medical science of the most celebrated professors could effect so little, under circumstances so favourable, as he has supposed, the public would have scarcely any motive left for encouraging a pursuit so fruitless, nor an individual for devoting himself with zeal and enthusiasm to the attainment of knowledge, where nothing further than doubt and difficulty could reasonably be anticipated. It is our duty not to depreciate the advantages of which we are actually in possession; and while we use our utmost exertions for the improvement of our profession, and for the interests of humanity, we must not omit to assign their proper value to the few steps, which the labours of ages have in reality enabled us to advance, with security and with confidence. At the same time it is obvious that the necessity of such a discussion is sufficient to prove the fallacy of the argument, deduced by Mr. Edgeworth from the supposed facility of judging by the event, and to show how incumbent it is on every medical man, to be able to console himself, in the consciousness of his own rectitude, under the misconstructions and disappointments, to which he will unavoidably be liable, even without any very obvious want of candour on the part of his patients or of the public.

II.

APHORISMS

RELATING TO

CLASSIFICATION,

EXTRACTED PRINCIPALLY FROM

THE PHILOSOPHIA BOTANICA OF LINNE'.

CHAPTER VI. *Of generic characters.*

§. 151. The foundation of methodical science consists of two parts, arrangement and nomenclature.

152. Arrangement is either theoretical, relating to classes, orders, and genera, or practical, relating to species and varieties.

153. Arrangement or method is either synoptical or systematic.

154. A synopsis depends on arbitrary divisions, proceeding in pairs at each step, and is not admissible in botany, except as a key or index.

155. A system proceeds in its arrangement by five steps; classes, orders, genera, species, and varieties.

A synopsis in 5 steps extends only to 32 varieties; a system may comprehend 100 000, if each division contains 10 members.

156. System is the Ariadnean thread, without which all is confusion.

157. Species in natural history are supposed to have been originally created distinct.

158. Varieties may be as numerous as the individuals which have been produced.

[It is however only such varieties, as are in some measure hereditary, that require to be particularly noticed.]

159. Genera are determined in botany from the agreement of the parts of fructification.

160. Classes are deduced from the regular agreement of many genera, in the parts which characterize them.

161. An order is a subdivision of a class, intended for convenience.

162. Species and genera depend on nature: varieties often on cultivation: classes and orders on a combination of nature and art.

[In Dr. Cullen's opinion, species alone are established by nature; the constitution of genera is an invention of the human mind, which must necessarily be imperfect until all existing species are known. Synops. proleg. p. xi. Indeed in nosology, the constitution of genera must generally be in some measure arbitrary. I have endeavoured to arrange them upon the principle of the greatest utility, uniting such species of diseases, as are most conveniently considered together, with respect to their nature and to their cure.]

163. Habit is a general agreement in growth and appearance.

168. Habit is to be silently consulted in forming genera, but must not and cannot be described.

To prefer habit to the more regular characters is folly. 209.

169. No positive rules can be laid down respecting identity of genus.

Thus some species may be monopetalous, or monospermous, others of the same genus polypetalous or polyspermous.

170. Few genera are without some cases of accidental deviation.

171. Each genus is commonly characterized by some decided singularity of form.

172-3. Genera thus marked must be kept distinct or united accordingly.

174. The more constant the mark in different species, the better distinction it affords.

175. Different parts are the most constant in different genera; but scarcely any part is ever wholly invariable.

186. A generic character is the definition of a genus, and may be of three kinds, factitious, essential, or natural.

187. An essential character affords a singular and appropriate criterion of the genus.

Its excellence depends on its brevity.

188. A factitious character distinguishes the genus only from others of the same artificial order.

189. A natural character contains every thing remarkable that is found in all the species of the genus.

It may often require alteration when new species are discovered.

190. A factitious character is a substitute for an essential one, which is always the best when it can be obtained. A natural character is a work of great labour, but, when completed, it is the basis of all systems, the guardian of genera, and is applicable to every correct and practicable mode of arrangement.

193. No character can be infallible unless it has been compared with all the species of the genus.

198. A generic character must not contain comparisons, except with things perfectly well known.

199..201. The character must be expressed in select, accurate, distinct, and compendious terms, sufficient in number, but not superfluous.

A proper and correct use of terms has preserved anatomy, mathematics, and chemistry from barbarism: the want of it has been highly pernicious to medicine.

202. The character must remain invariable in every possible system that can be adopted.

With this precaution, the introduction of a new system is no misfortune.

203. A genus may consist of a single species, although it more usually contains several species.

204. What is established respecting the characters of genera must be understood, with some latitude, of those of classes.

205. Classes are more arbitrary than genera, orders than either.

206. The more naturally classes are established the better.

207. Great difficulty arises from the excessive length or number of classes and orders.

Boerhaave's 33 classes are too numerous; Knaut's 8 too few.

208. Genera which are allied to each other ought to stand together.

[It is a problem, partly depending on mathematical considerations, to determine how a given number of things may be divided and described in the most compendious manner possible. We may estimate the degree of conciseness by the number of words required, whether substantives or adjectives, supposing the characters such as to allow the distribution to be varied at pleasure, and to admit of the shortest possible description. Thus the subdivision of 100 species by bisection only, in the manner here termed synoptic, would require in the whole 7 substantives and twice as many adjectives, for the distinction of the whole, that is, 21 words; thus, *A a b*, (50); *B c d*, (25); *C e f*, (13); *D g h*, (7); *E i k*, (4): *F l m*, (2); *G n o*, (1); at least in the common course of technical language, although some of the substantives might often be spared. A subdivision by trisection would require 18 words; thus, *A a b c*, (34); *B d e f*, (12); *C g h i*, (4); *D k l*, (2); *E m n*, (1); by quadrisection also 18; by quinquesection 17; and any greater number of divisions than this at each step would require a greater number of words to be employed; thus 6 would require 18, and 7, 20 words. So that the greatest conciseness is here obtained by three steps, 5 × 5 × 4. The calculation might easily be generalised if it were necessary, but it will be sufficient to extend it to the supposition of 1000 species, which might be the most compendiously expressed by five repeated quadrisections; if however the arrangement were restricted to 4 steps instead of 5, the number of divisions in each must become about 6; and the restriction would only require the introduction of two additional terms or characters, making 27 instead of 25. Such a limitation to four degrees of regular subdivision has been found the most convenient for practical purposes, even when the number of things to be arranged is much greater; for in-

stance in the 20 000 species belonging to the vegetable kingdom. In this case the most compendious arrangement would be to have about 12 divisions at each step. But it must be remembered that we have been proceeding on the supposition of characters variable at pleasure, so as to be accommodated to the convenience of classification: while in reality such an accommodation is only practicable in a very moderate degree; since we are often bound to follow a method much less regular, wherever there are any traces of a natural arrangement, capable of affording facility and stability to our system.]

CHAPTER VII. *Of names.*

§. 218. He who establishes a new genus is bound also to give it a name.

[This must be my apology, for the introduction of a greater number of new words, than I should have wished to employ without such a necessity.]

219. A generic name must be decided on before a specific one is formed.

220. No man in his senses would employ a generic name destitute of etymological meaning.

Barbarous words are considered as destitute of meaning.

[This canon, though perfectly consistent with classical elegance, and though of great utility for the assistance of the memory, is disapproved by some good judges, as leading to imaginary hypotheses respecting the nature of the thing named: for myself, I see no great danger from such misconceptions, and I am therefore disposed to adhere to the Linnean rule.

Thus the term myringa, arbitrarily given by Sennert to the membrane of the tympanum, is deservedly forgotten.]

221. Generic names, consisting of two entire and separate words, are prohibited.

222. Generic names, consisting of two Latin words united together, are scarcely to be tolerated.

Such compounds of Greek origin, on the contrary, are elegant.

[Et nova factaque nuper habebunt verba fidem si Graeco fonte cadent, parce detorta.]

223. Generic names of hybrid origin, for instance partly Greek and partly Latin, are to be rejected.

224, 225. Generic names including other generic names are unworthy of a scientific nomenclature.

226. Generic names ending in oides are prohibited.

227. Generic names, derived from others by the addition of a syllable, are disapproved.

228. Generic names very nearly resembling each other are likely to cause confusion.

[For instance, Synochus and Synocha. In fact words formed for one language should be capable of being translated into another, so as to retain their sense, independently of any termination, which must be peculiar to a single language, or to others most nearly related to it.]

229. Generic names not derived from Greek or Latin are forbidden [220].

Some barbarous words, approaching in their forms to classical ones, are however allowed.

230. Generic names, which have been common to the different kingdoms of nature, are to be confined to one sense.

231. Generic names common to natural history and anatomy, pathology, therapeutics, or the arts, are to be avoided.

[Thus lichen must not be a genus of diseases: and I have been obliged to change the name spiloma into spilosis, having found that the botanists had taken possession of this also.]

232. Generic names contradicting the properties of some of the species are bad.

233. Generic names must not be identical with those of natural classes or orders.

234. Diminutives and derivatives of a similar nature are allowable as generic names.

[The diminutives of other generic names are however scarcely admissible.]

235. Adjectives are inferior to substantives as generic names.

239. Generic names, which have been already employed, are to be preferred, where it can be done without inconvenience.

[Sometimes however it is better to employ a new term than to alter materially the application of an old one.]

240. Such generic names, as express an essential character or habit, are the best.

242. An ancient name should be employed for a genus long established.

243..245. A good name once established ought not to be changed, even for a better or a more ancient one.

246. If a genus is to be divided, the old name must remain attached to the most common species.

247. Generic names are to be written in Latin letters, the Greek letters being expressed according to the established custom.

Αι, ae; ει, i, or e; η, e, or a, when final; ο, o, or u, in terminations; ου, u; οι, oe; ω, o; θ, th; φ, ph; χ, ch; κ, c; γχ, nch; γγ, ng; ', h.

[A, a; β, b; γ, g; γκ, nc; δ, d; ε, e; ζ, z; ι, i; λ, l; μ, m; ν, n; ξ, x; π, p; ρ, r; σ, s; τ, t; υ, y; ψ, ps. Thus, Os hyoides, not uoides, as in Baillie's engr. 26. Sauvages has been extremely irregular in this respect.]

248. The sounds of generic names are to be softened as much as possible.

249. Long and harsh names are to be avoided.

Names should scarcely exceed 12 letters.

250. Terms of art ought not to be employed for generic names.

251. Names of classes and orders are to be governed by the same rules as those of genera.

The name is to be single, not unmeaning, hybrid, barbarous, equivocal, inapposite, personal, too long, nor harsh.

253. Names of classes and orders should include their characteristic marks.

[Dr. Cullen professes to have followed the precepts of

Linné respecting denominations, as far as he has found it practicable.]

CHAPTER VIII. *Of specific differences.*

§. 256. A perfect name includes a generic and a specific name.

All solid learning in natural history, agriculture, and medicine, depends on the knowledge of species.

257. A legitimate specific name or character distinguishes the species from all others of the same genus. Trivial names, often called specific names, are subjected to no very accurate rules.

All specific characters, which distinguish the species from others, not of the same genus, are superfluous and bad.

Trivial names are only limited to a single word.

[Substantives have an advantage over adjectives, as being more convenient, when brevity is required; for instance, aphis *acetosae*, sphinx *filipendulae*. Dr. Bostock is mistaken in thinking that the principles of nomenclature, adopted by naturalists, entirely prohibit the use of single names on all occasions; and with this opinion most of his objections to the London pharmacopoeia fall to the ground. It would be convenient if every disease, which requires to be distinguished in a popular work, or an official report, could be designated by a single appellation either generic or specific: but this cannot always be effected; nor is it always done in natural history.]

259. Specific characters must be taken from circumstances not subject to vary.

260. Magnitude affords no specific distinction.

[Thus the degree of putrescency scarcely affords a sufficient distinction between nervous and putrid fever.]

261. Comparisons with other genera are to be excluded from specific characters.

262. Comparisons with other species of the same genus are bad.

283. Care must be taken to exclude varieties from the rank of species.

284. Each species must bear the name of the genus.

285. The specific name must always follow the generic.

The idea of the genus must occur first to the mind.

[But this observation can only apply to the Latin language: and in chemical names, it appears to be of little consequence how the component parts of a salt are presented to the mind: nor is it easy to say whether the term potassae sulfas implies that the sulfates, or the salts of potass, are to be considered as forming one genus.]

286. A specific name without the generic is like a bell without a clapper.

287. The specific name must not be united to the generic as a termination.

288. A genuine specific character is either synoptic or essential.

289. A synoptic specific character distinguishes the species of the genus by successive subdivisions into two portions.

In large genera such subdivisions are often indispensable.

290. An essential specific character exhibits a single distinction, appropriate to one species only.

291. The shorter a specific character can be made, the better, provided that it be sufficient.

The number of words admitted in a specific character ought never to exceed twelve: some limit must be laid down, and this number appears to be sufficient. Supposing a substantive and an adjective to be required for each subdivision of the genus into two collateral parts only, as in a synoptic character, which is the most unfavourable supposition, we may distinguish 100 species of the same genus by "12" words, thus, *A a*, 50; *B b*, 25; *C c*, 13; *D d*, 7; *E e*, 4; *F f*, 2; *G g*, 1.

[In fact, however, 14 words are here supposed; but it can seldom happen either that the species of a genus are so numerous, or the subdivision so little diversified. Thus we might easily find cases in which two substantives, with ten different adjectives applied to each, might abundantly distinguish 100 species,

employing only four words at a time ; and experience shows that twelve words are almost universally sufficient.]

For want of this conciseness, all the old specific characters, which exhibit descriptions instead of distinctions, are to be held in abhorrence.

[Thus " Podagra *atonica*, cum ventriculi vel alius partis internae atonia, et vel sine expectata aut solita artuum inflammatione, vel cum doloribus artuum lenibus tantum et fugacibus, et cum dyspepsia vel aliis atoniae symptomatis, subito saepe alternantibus." Dr. Cullen professes to have less apprehension of too many words than of too few : a principle which is highly proper as applied to a detailed description, but not to a specific character. If 12 words were thought too few for the specific characters of diseases, we might allow of 15 or even 20 ; but for 30 there can be no possible occasion. Dr. Willan's valuable work on cutaneous diseases loses much of its utility from the total omission of regular specific characters.]

292. Specific characters must contain only such words as are necessary for distinguishing the species from others of the same genus.

293. When a genus contains only one species, a specific character is superfluous.

[There may however be cases in which a character, pointed out as likely to be essential, by a person well acquainted with the species, may be useful in distinguishing it from others subsequently discovered.]

294. When a new species of a genus is discovered, the characters of all the other species must be accommodated to it, if they become inadequate.

295. The words forming a specific character are not to be compounds resembling generic names, nor purely Greek, but Latin ; and the more simple they are, the better.

Belleval gives, as specific characters, Chondrilla *μικρομηλινοπολύκαυλος*, Glycyrrhiza *μακροῤῥιζοπολυσχιδὴς*, Hieracium *μακροστενόφυλλον*.

[The trivial names of Ploucquet's Nosology are somewhat

similar, "hydrocatarrhophicus," "meranaestheticus," "spondylexarthreticus;" such words as these are inconvenient from their mere length.]

296. The specific character ought not to be embellished with the flowers of rhetoric, but natural and faithful.

297. The specific character admits neither comparatives nor superlatives.

298. The specific character must be expressed in positive terms, not in negative.

Privatives are often unavoidable, although in some measure objectionable. Indivisum, inerme, enerve, avenium, acaulis are allowable; non papposum, non asperum, non bifidum, bad.

[Cullen observes that distinctions deduced from the absence of symptoms are not good, but sometimes unavoidable. Synops. proleg. p. xxxvi.]

299. Resemblances, if ever employed for specific characters, must be striking and well known.

As the ear, the finger, or the eye.

301. Adjectives must immediately follow their substantives.

303. Conjunctive particles are to be excluded from specific characters, except where they are necessary to the sense.

304. Successive adjectives are not to be separated by commas.

We use a comma for separating the parts which are mentioned, a colon for a subdivision of any part: thus, Bauhinia inermis, *foliis* cordatis semibifidis: *laciniis* acuminatoovatis erectodehiscentibus.

305. A specific character must never contain a parenthesis, whether distinguished or not by the appropriate mark.

A parenthesis is bad, as implying a defect of order.

CHAPTER IX. *Of varieties.*

§. 306. To the generic name and specific character the distinction of a variety may be added, where it exists.

The knowledge of the varieties of plants is more important

for domestic and culinary purposes, than for the advancement of natural history.

307. The generic name, the specific character, and the marks of varieties, are to be printed in different types.

As CONVALLARIA scapo nudo: *corolla plena.*

310. Very slight variations are to be disregarded.

315. The specific character must agree with all the varieties, as far as is practicable.

317. It is often as difficult and as important to reduce varieties to their proper species, as species to their proper genus.

[The same disease, existing in a different part, may sometimes constitute a different species; but when the part differs neither in its structure nor its functions, it can only afford the distinction of a variety. Cull. syn. proleg. p. xxvi. For example, inflammatory fevers, with different local affections, require to be considered as separate species; but simple inflammations of different parts merely as varieties. Dr. Willan appears to have arranged a great number of mere varieties as distinct species. In Ploucquet's Nosology, the species and subspecies, varieties and subvarieties, depending on places, causes, or combinations, are multiplied without mercy: even Cusson, so much praised by Sauvages and Cullen, seems not wholly to have avoided a similar error, which is very likely to happen to those who confine themselves to a small part only of the whole system.]

CHAPTER X. *Of synonyms.*

§. 319. Among the synonyms enumerated, the most approved name is to be set down first.

320. Authors who have employed the same synonyms are to be quoted together.

They may be arranged either in the direct or the inverse order of time. Linné generally adopts the inverse order.

321. Each synonym is to begin a new line.

[The Linnean synonyms, including the specific characters, require a larger space than the usual citations of medical or other authors.]

322. Synonyms must be accompanied by the names of the authors, and the pages of the works in which they are to be found.

The author's own name may be omitted, in references to former works; those of other authors are to begin with capitals, but the works quoted are to be indicated by single words, beginning with small letters, as Tournef. paris. 381.

323. The name of the first discoverer should be noted, in order to assist in the history of the science.

[The references to ancient authors have generally been omitted by Cullen, on account of the inutility as well as of the difficulty of ascertaining the identity of the diseases. Ploucquet has in some measure supplied the deficiency, if such it can be called. It appears to me, says Cullen, that either a weak and superstitious veneration of antiquity, or a certain ostentation of learning, has much overrated the writings of the ancients relating to the history of diseases. It cannot be denied that we sometimes find in their works the characters of diseases correctly delineated, but every thing of this kind which really occurs, however highly valued by the moderns, would have given us no substantial information, and would probably have escaped wholly unobserved, if it had not been confirmed by later observation. Synops. proleg. p. xii.

With respect to the peculiar precautions to be observed in the distinction of diseases, Dr. Cullen lays down three general rules. Synops. proleg. p. xxxii.

1. He has always chosen external and sensible marks, neglecting, or rather rejecting, all conjectures respecting the internal state of the body: and of the sensible characters, he has preferred those which may be observed by the physician, to those which the patient alone can determine.

2. He has endeavoured to fix on such symptoms as are present throughout the disease, although this is not always strictly practicable: even the cause must sometimes be considered: and the succession of symptoms, as in intermittent fevers: but the duration must not be admitted as a distinction.

[A botanist learns to distinguish plants by their flowers,

which are not always present: but when he is become a master of the science, he can ascertain the most important species from any one of their parts, and at any period of their growth. In the classification of diseases, we are at liberty to choose any of the train of causes and effects for determining the character, as may be most convenient for the general purposes of the system, provided that they be sufficiently constant: having made this election, we have no further concern with the causes passed by, unless they happen to be of importance to the treatment; except in a detailed description of the disease, from which nothing must be excluded.]

3. He has endeavoured to employ, in the characters of diseases, as many of the symptoms as are absolutely necessary for determining them, and no more; thinking it however a greater fault to be deficient than redundant.

Symptoms of other diseases, such as Carphologia, Pandiculatio, Rigor, Sternutatio, Oscedo, Singultus, Stertor, Anxietas, Lassitudo, Stupor, Pruritus, Algor and Ardor, considered as genera by Sauvages and others, are omitted by Cullen, as never existing independently. Many of the Vitia he has thought too trifling for insertion; others of no importance in practice, as being incurable: and some diseases he has found it impossible to introduce into his classification; a confession which is amply sufficient to shew its inadequacy to the purposes of science.]

III.

AN INTRODUCTION TO MEDICAL LITERATURE, INCLUDING A SYSTEM OF PRACTICAL NOSOLOGY.

MEDICAL LITERATURE *IN GENERAL.*

Linden de scriptis medicis. 8. Amst. 1662. Mercklini Lindenius renovatus. 4. Nur. 1686. An alphabetical enumeration, with biographical notes.

Conringii introductio, cum pr. Fr. Hofmanni. 4. Halle, 1726.

Douglas Bibliographiae anatomicae specimen. Ed. 2. 8. Leyd. 1734. From Hippocrates to Harvey, with biography.

* *Boerhaave* Methodus studii medici, ab Haller. 2 v. 4. Amst. 1751.

Haller Bibliotheca anatomica. 2 v. 4. Zurich, 1774. To 1700.

Haller Bibliotheca chirurgica. 2 v. 4. Berne, 1774-5. Not complete. Creutzenstein Bibliotheca chirurgica. 2 v. 4. Vienn. 1781. Haller's work transposed into the order of the subjects.

Haller Bibliotheca medicinae practicae. 4 v. 4. Basle, 1776-88. To 1707.

Weigels grundriss der chemie. 2 v. 8. Greifsw. 1777. A classical work with respect to the literature of many of the physical sciences.

Webers entwurf einer medicinisch practischen bibliothek. 8. Dess. 1784. "Praises too much, especially new things." Rothe.

Daniel Bibliothek für staatsarzneykunde. 8. Erl. 1788. "A good beginning." R.

Blumenbachii introductio in historiam medicinae literariam. 8.

Gott. 1788. "In chronological order, containing all the ancients, and the best of the moderns, with biographical notes, and occasional criticisms." R.

Usteri Repertorium der medicinischen literatur. 8. Zurich and Leipz. 1790. "Enumerates all the works which have appeared in the respective years, with abstracts from the Journals, and often original remarks: a most important and valuable treasure of literature." R.

Allgemeines repertorium der literatur. 4. Weimar and Jen. 1793... The medical part separate. "No person, who wishes to deserve the character of a truly learned man, ought to be without this work." R.

Murray Enumeratio librorum praecipuorum medici argumenti; ab Halem. 8. Amst. 1792. "Too much of anatomy and botany: the books ill chosen." R.

Mezgers skizze einer literärgeschichte der medicin. 8. Königsb. 1792-6. "Follows Blumenbach, but is more full, and better calculated for reading." R.

Kühnii bibliotheca medica, vol. 1. 8. Leipz. 1794. A copious catalogue.

Schweikhard Catalogus dissertationum ad artem obstetriciam spectantium. 8. Frankf. 1795. "From 1515 to 1792, enumerating 1198 dissertations." R.

Schweikhard Catalogus dissertationum ad medicinam forensem spectantium. 8. Frankf. 1796. "Accurate and complete." R.

Rothe Kunst sich eine bibliothek zu sammeln. 8. Leipz. 1798.

Rothe Noth und Hülfstafel.

Rothe Handbuch für die medicinische literatur. 8. Leipz. 1799. A work which has been of considerable utility in the compilation of this catalogue: but encumbered with much superfluous matter, and inconveniently arranged; sometimes also highly capricious in its criticisms.

Dörings repertorium der disputationes seit 1781 bis 1800.

* Ploucquet Literatura medica digesta. Ed. 2. 4 v. 4. Tub. 1810. "Old and new, good and bad, so mixed as to be of very little use." Rothe. "A work equalled by none which any

other science can boast." Hufeland. And yet unfortunately a work which is of less value than a similar work would be to any other science, since there is no science in which selection is so important and so difficult as in medicine. It is, for instance, of much more utility to have ten of the best remedies pointed out for a given disease, than a hundred of the best, without further discrimination.

Royston's intended Bibliotheca medicinae Britanniae.

† Haller El. Phys. Sauvages Nosol. meth. Burserii Inst. Vogel Handb. Selle pyret.

CRITICAL JOURNALS.

* Monthly review. 8. Lond. 1749...

Commentarii de rebus in scientia naturali et medicina gestis. 8. Leipz. 1750...

Richter Chirurgische bibliothek. 8. Gott. 1771... "Rich in important articles." Rothe.

Blumenbach Medicinische bibliothek. 8. Gott. 1783-95. "The reviews often more valuable than the works reviewed: contains also original essays." R.

Hartenkeil und Mezler Medicinisch chirurgische zeitung. 8. Salzb. 1790..." An excellent medical newspaper and journal." R.

Medical and chirurgical review. 12 v. 8. Lond. 1794..1806. A useful work, but latterly too theoretical.

Kausch Geist und kritik der medicinischen zeitschriften Deutschlands. 8. Leipz. 1798.

London medical review. 8. Lond. 1808... Respectable, but occasionally too severe.

Annual medical review. 8. Lond. 1809...

(Vogel, Murray, Tode, Schlegel, Sprengel, Kortum und Schäffer, Hunczovsky und Schmid, Hopf, Rahn.)

† Many periodical collections of original essays.

HISTORICAL WORKS.

Leclerc Histoire de la médecine. 8. Genev. 1696. 4. Amst. 1723. " Full and candid." Haller. To Galen's time.

Freind's history of physic. 2 v. 8. Lond. 1725-6. From Galen to 1600.

Portal Histoire de l'anatomie et de la chirurgie. 6 v. 8. Par. 1770-3.

Dujardin et Peyrilhe Histoire de la chirurgie. 2 v. 4. Par. 1774-80.

Black's history of medicine and surgery. 8. Lond. 1782. German, by Scherf, 8. Lemg. 1789. " Prolix in ancient history, meagre in the middle ages, superficial in later times, and in the most modern completely uninformed." Rothe.

W. Hunter's introductory lectures. 4. Lond. 1784.

Ackermanni institutiones historiae medicinae. 8. Nur. 1792. " The best abridgement." R.

* *Sprengels* versuch einer pragmatischen geschichte der arzneykunde. 8. Halle, 1792... " Infinitely important and valuable." R.

Stucker et Weber sanitatis humanae ex facie medicinae practicae commutatae schematismus. 8. Rostock, 1793.

Hecker Allgemeine geschichte der natur und arzneykunde. 8. Leipz. 1793... Enumerates 352 works on the history of medicine.

Beyträge zur geschichte der medicin. 8. Halle. 1794...

Ackermanni opuscula. 8. Nur. 1797.

Heberden on the increase and decrease of diseases. 4. Lond. 1804.

Woolcombe on the frequency of diseases. 8. Plym. 1808.

Remarks on medical science in Germany. Ed. med. jour. IV. 69.

MEDICAL BIOGRAPHY.

Character of Aesculapius. M. Med. Soc. Lond. I. 1.

Lettsom's memoirs of Dubourg. M. Med. Soc. Lond. I. 476.

Hutchinson's biographia medica. 2 v. 8. Lond. 1799. Amusing, but deficient in literary information.

(Kestner, Borner und Baldinger, Möhsen.)

STUDY OF PHYSIC.

* Gregory on the duties and qualifications of a physician. 12. Edinb. 1805.

Tissot Essai sur les études de medicine. 12. German, by Huber. 8. Bale. 1785.

* Vogels kurze anleitung zum gründlichen studium der arzneiwissenschaft. 8. Stend. 1791.

Ploucquet Der arzt. 8. Tüb. 1797.

Parkinson's hospital pupil. 12. Lond. 1800.

On a minute knowledge of anatomy. Ed. med. journ. V. 66.

Edgeworth on professional education. 4. Lond. 1809. 8. 1812. Somewhat chimerical. See some excellent observations on this work in the Quarterly Review, n. 11. The reviewer, however, seems to rate mathematical learning too low.

Strang's letters to a student of medicine. 8. Lond. 1812. Sensible advice, well written; particularly addressed to surgeons in the navy.

(Wachtel, Heister, Gorter, Gruner, Kemme, Selle, Herz, Delius, Uden, Stark, Senft, Wedekind, Hildebrandt, Kletten, Osterhausen, Voitus, Mursinna.)

† See Profession of physic.

PROFESSION OF PHYSIC, *GENERALLY & PHILOSOPHICALLY* CONSIDERED.

Feyjoo on the uncertainties in physic. 8. Lond. 1751.

Gruner Gedanken von der arzneywissenschaft. 8. Bresl. 1772.

Weikard Der philosophische arzt. 8. Frankf. 1775. 2 v. 1798.

Zimmermann über die erfahrung. 8. Zur. 1794. Zimmermann on experience, by Hopson. 8. Lond. 1782; Lond. med. journ. IV. 9.

Fordyce on improving the evidence of medicine. Trans. soc. med. ch. kn. I. 243.

Mezler über den einfluss der heilkunst auf die theologie. 2 v. 8. Ulm, 1794.

Garn über vorurtheile. 8. Wittenb. 1795.

Cabanis sur les révolutions de la médecine. 8. Par. 1804; Ed. med. journ. II. 206. C. on the revolutions of medical science, by Henderson. 8. Lond. 1806; Ed. med. journ. III. 241. Seems to be very declamatory.

Remarks on certainty in medical science. Ed. med. journ. I. 425.

(Nose's essays.)

IN RELATION TO CONDUCT.

A discourse on the interest of the patient. 12 Lond. 1669.

Finke exercitationes; de medicina populari. Rinteln, 1785.

Wedekind über das betragen des arztes. 8. Maynz, 1789.

Henning von den pflichten der kranken gegen die ärzte. 8 Leipz. 1791.

Stieglitz über das zusammenseyn der ärzte am krankenbette. 8. Hanov. 1798.

Percival's medical ethics. 8. Lond. 1800. Rather sensible than striking or profound.

Hints to young practitioners. Ed. med. journ. V. 335.

WITH REGARD TO PUBLIC INSTITUTIONS.

Gideon Harvey's conclave of physicians. 12. Lond. 1686.

Apothecaries vindicated. 8. Lond. 1724.

Berends über den unterricht vor dem krankenbette. 8. Berl. 1789.

Plan of a constitution for the medical system in France, by Vicq d'Azyr. Soc. R. Med. 1777-8. Dunc. med. comm. XVII. 175.

Good's history of medicine, relating to apothecaries and druggists. Ed. 2. 12. Lond. 1796.

Jugler über die vereinigung der medicin und der chirurgie. 8. Erf. 1799. Ed. med. journ. III. 106.

Reils pepinieren. 8. Hall. 1804. Ed. med. journ. II. 472.

Senex on medical reform. Ed. med. journ. II. 437.

Beddoes's letter to Banks on the state of medicine. 8. Lond. 1808. Ed. med. journ. IV. 378.

Harrison on the improvement of medical science. 8. Lond. 1810. Ed. med. journ. VI. 487.

(Wedekind, Mederer, Muthwehr und Kausch.)

COLLECTIONS RELATING TO MEDICAL SUBJECTS.

* Philosophical transactions. 4. Lond. 1665...Abridged by Hutton, Shaw, and Pearson. 4. Lond. 1803...Mihles's medical essays from the Phil. tr. 2 v. 8, Lond. 1745. An interesting selection, in order of time.

Histoire et mémoires de l'Académie Royale des sciences, depuis 1666. 4. Par. Rozier Table des articles jusqu'en 1770. 4 v. 4. Par. 1775. Southwell's medical essays from the Ac. Par. 4 v. 8. Lond. 1764. From 1699 to 1750; a work now too obsolete to be studied, and too incomplete to be quoted. Wood's cases from the Ac. Par. Vol. I. 8. Lond. 1776. Without order or arrangement.

Ephemerides Naturae curiosorum. 4. Frankf. 1684...Acta Academiae Caesareae. 4. Nuremb.

Acta medicorum Berolinensium. 8. Berl. 1722-31.

* Medical essays and observations by a society in Edinburgh. 5 v. in 6. 8. Ed. 1733-44. * Essays and observations physical and literary. 3 v. 8. Ed. 1754-71. Transactions of the Royal Society of Edinburgh. 4. Ed. 1786...Contains but few medical articles. Lewis's abridgement of the Ed. med. essays. 2 v. 8. Lond. 1746.

* Mémoires de l'Académie Royale de chirurgie. 4. Par. 1742... Recueil de pièces qui ont concouru pour le prix de l'Acad. R. de chir. 5 v. 4. Par. 1770.

Mémoires de l'Academie Royale de Berlin. 4. Berl. 1746...

Haller Disputationes selectae anatomicae. 7 v. 4. Gott. 1746-52.

Chirurgicae. 5 v. 4. Laus. 1755-6. Ad morborum historiam et curam pertinentes. 7 v. 4. Laus. 1757; Abridged in German by Crell. 9 v. 8. Helmstadt and Berl. 1779-85.

* Recueil périodique d'observations de médecine, de chirurgie, et de pharmacie, par Vandermonde. 8. Par. 1754... Journal de médecine. 8. Par. 1759-95. Recueil périodique de la société de santé de Paris. 1796...

* Medical observations and inquiries. 6 v. 8. Lond. 1757-84.

* Medical transactions, by the Royal College of Physicians. 3 v. 8. Lond. 1768-85.

Sandifort Thesaurus dissertationum. 3 v. Rotterd. 1768-78.

* Medical commentaries, by Duncan and others. 20 v. 8. Ed. 1773-95. Duncan's annals of medicine. 8 v. 8. Ed. 1797.. 1805. Edinburgh medical and surgical journal. 8. Ed. 1805...

Journal de physique. 4. Par. 1773...

Societatis medicae Havniensis collectanea. 2 v. 8. Copenh. 1774-5; Med. comm. Ed. IV. 413, VI. 247. Acta. 2 v. 8. Cop. 1777-9; Lond. med. journ. I. 377. Acta regiae societatis Havniensis. 8. Copenh. 1783...

Baldingers magazin, neues magazin, medicinisches journal. 8. Leipz. 1775... "Inestimable, and indispensably necessary to every physician." Vogel.

* Histoire et mémoires de la société royale de médecine. 6 v. 4. Par. 1776-85. I, II; Lond. med. journ. III. 149, IV. 38... Gruners sammlung. 8. Halle, 1784. An abstract.

Smellie thesaurus medicus. 4 v. 8. Ed. 1778-85. Novus thesaurus medicus. Ed.

Sammlung auserlesener abhandlungen für arzte. 8. Leipz. 1778... Für wundärzte. 8. Leipz. 1778...

Crells chemisches journal.

* Simmons's London medical journal. 11 v. 8. 1781-90. Medical facts and observations, 8 v. 8. 1791..1800.

Encyclopédie méthodique. 4. Par. 1782...

Gehlens chemische annalen. Vienn.

* Medical communications. 2 v. 8. Lond. 1784-90.

Memoirs of the society of Manchester. 8. 1785...

Weitz Bibliothek der wichtigsten practischen ärzte des 17 jahrhunderts, grösstentheils in kernhaften auszügen. 8. Leipz. 1785.

Frank Delectus. 12 v. 8. Pav. 1785-92.

* Memoirs of the Medical Society of London. 6 v. 8. Lond. 1787..1805. Transactions. 8. Lond. 1811.

Transactions of the Royal Irish Academy. 4. Dubl. 1787...

* Annales de chimie. 8. Par. 1789...

Desault Journal de chirurgie. 8. Par. 1791...

Kochs auszug aus den Auserlesenen abhandlungen. 5 v. 8. Leipz. 1791-5.

Journal der erfindungen in der natur und arzneywissenschaft. 8. Goth. 1792... "Contains many valuable remarks on fashionable absurdities." Rothe.

Museum der heilkunde. 8. Zur. 1792...

Mémoires de l'Institut de France. 4. Par. 1798...

* Bulletin de la Société Philomathique. 4. Par.

* Transactions of a society for the improvement of medical and chirurgical knowledge. 3 v. 8. Lond. 1793..1812.

Transactions of the college of physicians at Philadelphia. 8. Phil. 1793. Dunc. med. comm. XIX. 134.

* Hufelands journal der practischen arzneykunde und wundarzneykunst. 4 v. 8. Jen. 1795-8. Journal der practischen heilkunde. 8. Jen. 1799..Dunc. ann. 1799. 274. Loders chirurgisches journal. 8. Jen. 1799...

* Medical records and researches. 8. Lond. 1798.

Mémoires de la société medicale d'émulation. 8. Par. 1798, Dunc. ann. 1799. 96.

Medical and physical journal. Lond. 1799...

Memorie della società medica di emulazione di Genova. I. 8. Gen. 1801. Ed. med. journ. I. 106.

Bulletin de l'école de médecine. I. 8. Par. 1805. Ed. med. journ. I. 376.

* Medicochirurgical transactions. 8. Lond. 1809..Ed. med. journ. VI. 492.

(Commentarii Lipsienses, Michaelis, Thom, Müller und Hoffmann, Jansen und Jonas, Arneman.)

COLLECTIONS OF THE WORKS OF SINGLE AUTHORS.

Including miscellaneous essays.

* Hippocrates Gr. L. Foesii. f. Genev. 1657. Hippocratis Coacae praenotiones Dureti. f. Genev. 1665. Hippocratis de morbis popularibus liber 1 et 3, a Freind. 4. Lond. 1717. Clifton's Hippocrates on air, epidemics and prognostics. 8. Lond. 1734. Hippocrates contractus, a Burnet. 12. Lond. 1743. Riollay's doctrines of Hippocrates. 8. Lond. 1783; Lond. med. journ. VI. 86. Sprengel Apologie des Hippocrates. 2 v. 8. Leipz. 1789. The study of Hippocrates seems to have superseded the observation of nature in physic, even more than that of Aristotle did in philosophy. His aphorisms, his books on diseases, and on internal affections, besides the endemics, are the most esteemed. There is an elegiac and a lyric translation of the aphorisms into Latin verse.

* Aretaeus Gr. L. a Wigan. f. Oxf. 1723.

Galeni opera, 5 v. f. Bale, 1538. * Hippocrates et Galenus, Gr. L. Charterii. 13 v. f. Par. 1679. Galeni epitome a Lacuna. f. Bale. 1551. Galeni epitome. 12. Leyd. 1553. Galen's most esteemed works are those on the parts of the human body, on the method of healing, on local affections, and on the composition of medicines, besides the commentaries on Hippocrates.

Oribasii compendium, Lat. 12. Ven. 1554.

Aëtius Lat. f. Bale, 1535.

* Celsus a Krause. 8. Leipz. 1766. Preferred by Rothe to Targa's edition. Greive's Celsus. 8. Lond. 1756.

* Caelius Aurelianus ab Almeloveen. Amst. 4. 1722.

Rhazes Lat. f. Bale, 1544. The Arabian Galen. Rhazes de variolis Ar. L. a Channing. 8. Lond. 1766.

(A complete medical library ought to contain all the Greek, Latin, and Arabian Physicians. Theophrastus, Dioscorides, Nicander, Rufus, Alexander Aphrodisiensis, Palladius, Al. Trallian, Theophilus, Paulus Aegineta, Nonnus, Synesius, Actuarius, Xenocrates, Erotianus, Anonymus et Hypatus, Cassius, Moschion, Sethus, Demetrius, Chirurgici veteres; Scribonius, Plinius, Serenus, Priscianus, Rhemnius; Jo. Serapionis, Haly Abbatis, Avicenna, Avenzoar, Averrhoes, Mesue, Albucasis, Moyses: but their works are individually so little interesting to a student, that it is unnecessary to enumerate the editions.)

Mediolani Schola Salernitana, ab Ackermann. 8. Stend. 1790.

Paracelsi opera. 11 v. 4. Frankf. 1603.

Eustachii opuscula. 8. Leyd. 1707.

Horstii opera. 2 v. 4. Goud. 1661.

Foresti opera. 6 v. f. Rouen.

N. Pisonis opera, Boerhaavii. 8. Leipz. 1766.

Mercurialis opuscula aurea. f. Ven. 1644.

Ballonii opera. 4 v. 4. Par. 1643. Ven. 1734.

Prosper Alpinus, Boerhaavii et Gaubii. 4. Leyd. 1733. "The father of symptomatology." Weber.

Riolani opera. f. Par. 1610.

Fabricii Hildani opera. f. Frankf. 1646.

Sennerti opera. 6 v. f. Lyons. 1676. His Practice was long considered as the best general treatise.

* Harveii opera. 4. Lond. 1766.

Sanctorii Sanctorii opera. 4. Ven. 1660.

Poterii opera, Fr. Hofmanni 4. Frankf. 1698.

Riverii opera, f. Genev. 1728. Said to have stolen too much from Sennert.

Bartholini acta Hafniensia. 5 v. 4. Copenh. 1673.

Willis opera. 2 v. f. Ven. 1720.

* Mortoni opera. 4. Genev. 1696. "Still decidedly valuable." R.

* Sydenhami opera. 8. Leyd. 1726. 2v. 4. Gen. 1757. Cullen says, that Sydenham is almost the first who has given ac-

curate descriptions of diseases. Currie observes, that though he affected not to theorize, he was a theorist in every page of his works. "Si morbi cujuslibet historiam diligenter perspectam haberem, par malo remedium nunquam non scirem adferre." A favourite passage with nosologists: vanity of vanities!

Malpighii opera. 2 v. Leyd. 1687. Opera posthuma. 4. Amst. 1698.

Ramazzini opera. 4. Genev. 1717. Appears on the whole to be solid and useful.

Graaf opera. 8. Lyons. 1678.

Bellini opera. 4. Pis. 1759.

Ettmulleri opera. f. Frankf. 1708.

Lancisii opera. 2 v. 4. Genev. 1718. 4 v. 4. Rom. 1745.

* Fr. Hofmanni opera. 11 v. f. Genev. 1740-53. Büchneri fundamenta. 8. Hall. 1746. An abstract of Hofmann, especially of his medicina rationalis et systematica.

* Baglivii opera. 4. Lyons. 1733.

Boerhaavii opera. 4. Ven. 1757. "Incomplete." R. Opuscula. 4. Hag. 1738.

Mead's medical works. 8. Lond. 1762. "His monita very valuable." R.

Freind opera omnia. f. Lond. 1733.

* Morgagni opera. 4 v. 4. Pad. 1719. Opuscula. f. Ven. 1763.

Albini academicae annotationes. 8 v. 4. Leyd. 1758...

* Huxhami opera, a Reichel. 3 v. 8. Leipz. 1764. "The observations on epidemics the best." R. Huxham's tracts, from the Phil. trans. 8. Plym. 1789.

Whytt's works. 4. Ed. 1768.

Tissoti opuscula. 8. Zell. 1769.

Werlhofi opera a Wichmann. 3 v. 4. Hanov. 1775-6. "Extremely acute." Rothe. Extolled by Beddoes.

Sauvages Chefs d'oeuvres. 2 v. 12. 1770.

* W. Hunter's medical commentaries. 4. Lond. 1777.

Haen operum epitome. 8. Vienn. 1778. Opuscula. 2 v. 8. Vienn. 1795.

Sandifort observationes. 4. Leyd. 1777. Fasc. 3. Dunc. med. comm. VII. 135.

Gredings vermischte schriften. 8. Altenb. 1781. Especially on mania.

Else's works, by Vaux. 8. Lond. 1782. Lond. med. journ. III. 380.

Selle Beyträge. 3 v. 8. Berl. 1782. Neue beyträge. 3 v. 8.

Fothergill's works, by Lettsom. 3 v. 8. Lond. 1783. 4. Lond. 1784.

Oeuvres de Pouteau. 8. Par. 1783. Lond. med. journ. IV. 349. Principally surgical.

Moore's medical sketches. 8. Lond. 1786.

Keck Abhandlungen. 2 v. 8. Berl. 1787-9. "Principally extracts." R.

Linnaei amoenitates academicae, Schreberi. 10 v. 8. Erlang. 1787.

Stark's works by Smyth. 4. Lond. 1788. Dunc. med. comm. XIII. 144.

Percival's essays. 2 v. 8. Lond. 1790. Med. comm. Ed. I. 264. Percival's works. 4 v. 8. Lond. "1807." Ed. med. journ. IV. 85.

Pott's works, by Earle. 3 v. 8. Lond. 1790.

Beddoes's medical works. Germ. 2 v. 8. Leipz. 1794-6. "A blind adherent of the new chemists, and of Brown." Rothe. Contributions. 8. 1799.

Hufelands gemeinnützige aufsätze. 8. Leipz. 1794. "Models of popular essays." R.

Rush's medical inquiries. 5 v. 8. Philad. 1794...

Oeuvres chirurgicales de Desault, par Bichat. 8. Par. 1798.

Davy's researches. 8. Lond. 1800. Dunc. ann. 1800. 227.

Brown's works. 3 v. 8. Lond. 1804. Ed. med. journ. I. 357.

Oeuvres de Vicq d'azyr. 6 v. 8. 1 v. 4. Par. 1806. Ed. med. journ. IV. 437.

GENERAL WORKS,

And single works of a miscellaneous nature.

Gorraei definitiones medicae. f. Par. 1578.

Hofmanni fundamenta medicinae. 8. Hall. 1703.

Boerhaave institutio medica. 8. Vienn. 1775.

Haen praelectiones. 8. Vienn. 1780.

Herz Grundriss aller medicinischen wissenschaften. 8. Berl. 1782.

Platneri institutio chirurgiae rationalis, a Krause. 8. Leipz. 1783. Germ. 2 v. 8. Leipz. 1786.

Selle studium physicomedicum. 8. Berl. 1787.

Brunonis elementa medicinae. 8. Ed. By Beddoes. 2 v. 8. Lond. 1795. Girtanner Darstellung des Brownschen systems. 2 v. 8. Gott. 1797-8. "How will our successors be amazed at the noise which Brown has made! See a valuable critique, Journ. der erfind. V. .VII." Rothe.

Carminati hygieine, therapeutice, et materia medica. 3 v. 8. Pav. 1791-3. Leipz. 1792.

Darwin's zoonomia. 2 v. 4. Lond. 1794-6. 4 v. 8. Lond. 1801. Brown on Darwin's zoonomia. 8. Edinb. Dunc. ann. 1798. 229. "The author has been long known as an original thinker and a poet; but he has not fulfilled the expectations which were formed of this work: it contains many important practical observations, and many new and valuable ideas: but the whole is very deficient in method and order." Rothe. "Could the cases in which others failed and Darwin invented adequate resourses, be collected, I have reason to believe that they would make as valuable a volume as any one which we possess." Beddoes on fever; giving for instances digitalis in consumption, splints for weak hands, bandages for old sores, and the circular swing: all of which will however not easily be admitted as "adequate" resources.

In proof of the truth of Rothe's remark on the great deficiency of Darwin's arrangement, it is sufficient to observe his mode of dispersing fevers and their symptoms throughout the whole of his classes. In CLASS 1, *Order* 1, Genus 1, stands Febris irritativa; in Genus 2, Calor Febrilis; *Order* 2, Febris inirritativa; CLASS 2, *Order* 1, Genus 2, Febris sensitiva irritata; Genus 3, Febris sensitiva inirritata; Genus 6, Febris sensitiva; Genus 7, Delirium febrile; CLASS 3, Tremor febrilis; CLASS 4, Febris irritativa and inirritativa again. This seems to be employing a language which no art can translate into any other that has been adopted by mankind.

Larrey Expédition en Egypte. 8. Par. 1804. Ed. Med. journ. II. 213.

Franks reise. 2 v. 8. Vienn. 1804-5. Ed. med. journ. III. 326.

Birholz Cicero medicus. 8. Leipz. 1806. Ed. med journ. III. 354.

Edinburgh medical dictionary. 2 v. 4. Ed. 1807.

Young's syllabus of a course of lectures on the elements of the medical sciences. 8. Lond. 1809.

* Parr's London medical dictionary. 4. Lond. 1810. Probably the best general work; although the alphabetical arrangement much diminishes its value to a student.

(Rübel, Sue, Lavoisien, Burdin, Louis, Blancard, Reuss, Rahn, Reyher, Schraud, Hooper's dict. and dial. Turton, Roberton.)

CHEMISTRY.

THEORETICAL CHEMISTRY IN GENERAL.

Literature.) Weigels grundriss. * Scherers grundzüge der neuern chemischen theoric. 8. Jen. 1795.

* Cavendish. Ph. tr. 1766. 141.

* Priestley on air. 3 v. 8. Lond. 1790.

* Watson's chemical essays. 5 v. 12. Lond. 1800.

* LAVOISIER Elémens de chimie. 8. Par. 1793.

* *Grens* grundriss der chemie. 2 v. 8. Halle, 1796-7. "Indispensable." Rothe.

Henry's epitome of chemistry. 8. Lond. 1806.

* THOMSON'S system of chemistry. 5 v. 8. Ed. 1810. A compilation so copious and accurate as to supersede the necessity of a very large collection of works on this department of medical science; although an arrangement founded on fallacious suppositions has been introduced into the latter editions; and some want of uniformity has arisen from the repeated additions which have been incorporated with the work.

Thomson's elements of chemistry. 8. Ed. 1810.

* *Murray's* chemistry. 4 v. 8. Ed. 1806.

* Aikin's dictionary of chemistry. 2 v. 4. Lond. 1808.

(Mayow, Scheele, Crell, Hermbstadt, Girtanner, Schurer, Jacquin, Hildebrandt, Kirwan, Richter, Morveau, Laplace, Monge, Berthollet, Fourcroy, Hassenfratz, Adet, Remmler, Crawford, Pictet, Mayer, Hindenburg, Eimbke, Van Mons, Sage, Pearson, Giobert, Deimann, Troostwyk, Trommsdorff, Milner, Achard, Ilsemann, Luyart, Westrumb, Wurzer, Vauquelin, Seguin, Lefevre, Hauch, Hebenstreit, Nahuys, Fordyce, Cornette, Hasse, Arezula, Proust, Austin, Thouret, Gibbes, Sennébier and Humboldt, are also mentioned by Scherer as the authors of important essays).

(Valentinus, Boyle, Hooke, Stahl, Pott, Boerhaave, Macquer, Rouelle, Erxleben, Bergmann, Black, Irvine, Wiegleb, Göttling, Brugnatelli, Hagen, Gmelin, Tennant, Wollaston, Hatchett, Chenevix, Howard, Marcet.)

* † Annales de Chimie.

FUNDAMENTAL DOCTRINES.

Cleghorn de igne. 8. Ed. 1779; Smellie thes. IV. 108.

Paterson de evaporatione. 8. Ed. 1783; Smellie thes. IV. 404.

Richters stoechiometrie. 8. Bresl. 1792-4.

Chenevix on chemical nomenclature. 12. Lond. 1802.

Young's course of lectures on natural philosophy. 2 v. 4. Lond. 1807. Probably contains as much of natural philosophy as is absolutely necessary for a medical student: and with respect to the fundamental doctrines of chemistry, enters into an examination of the constitution of matter, of the phenomena of heat, and of electrochemical science.

Fourcroy's chemical philosophy. 1807.

Berthollet's chemical statics, by Lambert. 2 v. 8. Lond.

Dalton's chemical philosophy. 8. Manch. 1808.

* Sir. H. DAVY's elements of chemical philosophy. Vol. 1. 8. Lond. 1812.

ELECTROCHEMICAL SCIENCE.

See Nat. Phil. II. 426. . .435.

Wilkinson's elements of galvanism. 2 v. 8. 1803.

Ritters electrische system der körper. Leipz. 1805.

Walther vom galvanischen technizismus.

DAVY's Bakerian lectures. Ph. tr. 1801. . .

PROPERTIES OF PARTICULAR SUBSTANCES.

Classification.

CLASS I. ELEMENTS.

Simple substances.

ORDER I. EMPYREAL.

Negatively electrical, and supporting combustion with substances positively electrical.

	Specific gravity.	Weight combining.	
1. Ox'ygen	.00133 W, 15 Hydr. When fixed, about 2 W.	15	Colourless.
?. "Chlorine" Davy.	.0030 W, 33. 5 H.	67	Green.

ORDER II. METALLIC.

Positively electrical; having, when coherent, a high degree of lustre and opacity.

(With their oxyds, or combinations with oxygen.)

2. Hydrogen	Sp. gr. .00009 W, Water.	Wt. comb. 1 Hydrets, as sulfurets, not "hydrates."	Unknown in a state of cohesion
3. Nítrogen, or Azote	.00115 W, 13 H	26	Unknown in a state of cohesion
4. Potas'sium	.85 W	75	
5. Sódium	.94	88	
6. Barit'ium or Bárium, about	4.?	130	
7. Chrómium	5.9		
8. Tellúrium	6.1	60? ("74." D.)	
9. Uránium	6.5	77?	

10. An'timony,	Sp. gr. 6.7		Wt. comb. 165	(330 ?)
11. Man'ganese	6.9		103	
12. Zinc	7.1		66	
13. Tin	7.4		110	
14. Molybdaénum	7.5		88	
15. Iron	7.6		103	
16. Cóbalt	7.8—		166	(106 ?)
17. Copper	7.8	Reddish	120	(128 ?)
18. Ar'senic	8.3		90	
19. Nickel	8.9		55	(110 ?)
20. Bismuth	9.8		134	
21. Silver	10.8		205	
22. Lead	11.3		398	
23. Rhódium	11.4 ?			
24. Palládium	11.8		134 ?	D. 106, From
25. Mercury	13.6		380	[Berzelius.
26. Tungsten	17.4		94 ?	
27. Gold	19.3		373	B.
28. Platína (In Latin, Plat'inum)	21.5		180	B.
29. Irid'ium.				
30. Os'mium.				
(31). Titánium.				
(32). Colum'bium.				
(33). Cérium			36	(172 ?) B.
(34). Strontíum			90	
(35). Cal'cium			40	
(36). Magnésium			38 ?	
(37). Glycin'ium			39 ?	
(38). It'rium			111 ?	
(39). Alumin'ium			33 ?	
(40). Zircónium			70 ?	
(41). Silićium			31 ?	

ORDER III. PYROPHORIC.

Positively electrical; combustible with oxygen: void of metallic lustre.

42. Carbon. Wt. comb. 11.4 Black. "Carbureted hydrogen," or stagnal gas, sp. gr. 8 H, contains I Carbon, 11.4, and IV hydrogen, 4, making 15.4; it affords its volume of carbonic acid. "Supercarbureted hydrogen," or olefient gas, sp. gr. 13 H, contains I carbon, II hydrogen, making 13.4, or 26.8, and affords twice its volume of carbonic acid.

43. Borácium, or Boron Wt. comb. 55?? Gery.

44. Fluátium? 5.7?

45. Phos'phorus 20 Combustible at common temperatures.

46. Sulfur 30 Yellow, incombustible at common temperatures.

ORDER IV. INDETERMINATE.

47? Muriátium? The supposed basis imagined to unite with oxygen, and form muriatic acid. Wt. comb. 37?

CLASS II. ALKALIS.

Positively electrical: capable of making vegetable blues green, reds blue, and yellows brown.

They may be distinguished by their elective attractions.

ORDER I. SIMPLE.

1. Pot'ass Wt. comb. 90

2. Sóda 118 (59?)

3. Barita. Must be written with an *i* if accented barita, which is the most correct, the stone being called barites: the termination *a* distinguishing the pure earth. Wt. comb. 145
4. Strontia 105
5. Lime 55
6. Magnesia. Black, Ed. ess. phys. and lit. II. 157. Separate. 8. Ed. 1782. Henry, Lond. med. tr. II. 226. 53 D. (38B.)

ORDER II. COMPOUND.

7. Ammonia, Sp. gr. 8 H 32

CLASS III. OXYDS.

Combinations of simple bodies with oxygen, incapable of immediately changing vegetable colours; not strongly electrical.

ORDER I. SIMPLE.

When the bases are little known, called earths: to be distinguished by their elective attractions.

1. Alumina Wt. comb. 48
2. Glyc'ina. See aphorisms on classification. §. 247. 54
3. It'ria. No Latin word begins with *y*. 126
4. Zircónia 85
5. Sil'ica 61 (305?)

ORDER II. BINARY.

Oxyds of hydrogen and carbon.

	Form	Perfect solvent	Imperfect solvent	Precipitant
6. E'ther	Boils at 100°	Alcohol	Water	
7. Al'cohol	Boils at 175°	Water		Subc. pot.

	Form	Perfect solvent	Imperfect solvent	Precipitant
8. Cam'phor Camphor with an acid. Retz. Act. med. Havn. Dunc. med. comm. XIV. 68. With resins, Percival M. Med. soc. Lond. II. 54; Chamberlayne, 316.	Crystalline, volatile	Alc.	Water, dissolves one 1000th	
9. Spiritóleum, Essence	Liquid, volatile	Alc.		Water
10. Res'in ? Guaiacum. Brande. Phil. tran. 1806. 89.	Solid, fixed	Alc.		Water
11. Wax	Granular	Eth. Oil	Alc.	Water
12. Adipocère	Lamellar	Ether	Hot Alc.	Water
13. Oil Oil with mucilage. French and Fothergill. Med. obs. and inq. I. 4. 12.		Alkalis with A. or W.		
14 ? Mucóleum ? Davy's El. 308.	Semifluid		Water	
15. Aspar'agin ?	Crystalline, taste cooling	Water		
16. Sugar	Crystalline, sweet	Wat. Alc.		
17. Mellas'sa	Deliquescent, sw.	Wat. Alc.		
18. Sar'cocoll ?	Gummy, sweetish	Wat. Alc.		
19. Glaciáta. Jelly	Gelatinous	Hot Wat.		
20. Starch	Shining powder	Hot Wat.		Galls
21. In'ulin ?	Powder	Hot Wat.		Cold

ORDER III. TERNARY.

Oxyds of hydrogen, carbon, and nitrogen.

A. OF VEGETABLE ORIGIN.

	Form	Perfect solvent	Imperfect solvent	Precipitant
22. Gum	Horny	Water	Alcohol.	
23. Tragacan'thin	Horny	Water		Acids
24. Extrac'tin	Amorphous	Wat. Alc.		Mur. tin not gelatin.
25. Pícrin	Crystalline? Bitter	Wat. Alc.		Nitr. silv.
26. Cinchónin	Subastringent	Wat. Alc.		Galls; prec. sol. in alc.
27. Nar'cotin	Crystalline		Wat. Alc.	
28. A'cor or A'co-rin	Acrid; volatile with Wat. or Alc.	Wat. Alc.		
29. Indigo	Blue powder	Sulf. ac.		
30. Pyrocol'la. Gluten	Ductile		Water	Galls
31. Caoutchoúc	Elastic	Ether		
32. Birdlime	Viscous		Alc.	
33. Cork	Sp. gr. $\frac{1}{5}$: giving suberic acid		Wat. Alc.	
34. Wood	Fibrous		Weak alk.	

B. OF ANIMAL ORIGIN.

35. Gelat'ina. Gelatin	Horny or gelatinous	Wat.		Galls
36. Albúmen	Coagulable at 160°.	Wat.		Oxymur. of mercury
37. Fíbrin	Fibrous or coagulating	Weak alk.		Nitric acid

	Form	Perfect solvent	Imperfect solvent	Precipitant
38. Múcus	Diffusible in water		Wat.	Acetate of lead; not galls
39. Uréa	Crystalline	Hot Wat.		Metallic nitrates
40. Enchólia	Resinous, bitter	Alkalis	Water	

CLASS IV. COMPOSITIONS.

Combinations of alkalis or simple oxyds with compound oxyds.

1. Soap — Soluble in water.
2. Plaster. May be called Amur'ca, to avoid ambiguity. — Insoluble in water, solid.
3. Elaeox'yd. — Insoluble in water, fluid.

CLASS V. ACIDS.

Negatively electrical; capable of changing vegetable greens to blues, and blues to reds, or of counteracting the powers of alkalis to produce opposite changes; taste more or less acid.

To be distinguished by their elective attractions, (With their combinations).

ORDER I. SIMPLE ACIDS.

	Wt. comb.	
1. Sulfúric	75	if dry.
	92	Sp. gr. 1.85
	109	Sp. gr. 1.78.
2. Sul'furous, Sp. gr. 30 H	60	
3. Phosphor'ic	50	(55 B.)
4. Phos'phorous	35	(105 ?)
5. Carbon'ic	41.4	In subcarbonated alkalis B. But in neutralised ammonia 82.8, and with soda 207, if Berzelius is correct.

Emmet de acido aereo. 8. Ed. 1784; Smellie Thes. IV. 464.

6. Nítric	Wt. comb. 101 if dry.
	118 Sp. gr. 1.55
	135 Sp. gr. 1.42
7. Nítrous	86 D, 71 B.
8. Muriat'ic	69 D ; 52 B, supposed dry.
9. Oxymuriat'ic. See Empyreal substances.	
10. Hyperoxymuriat'ic	
11. Fluor'ic	20.7 ?
12. Borac'ic	160 (320 ?)
13. Chrómic	
14. Molyb'dic	133
(Molyb'dous)	118
15. Arsen'ic	135
16. Arsénious	120
17. Tun'gstic	124 ?
18. Colum'bic	

ORDER II. BINARY ACIDS.

19. Acet'ic	Wt. comb. 96. Berzelius.
20. For'mic	64. Richter.
21. Oxal'ic	71 B. 49. R.
22. Mellit'ic.	
23. Tartar'ic	124 B. 111. R.
24. Cítric	105 B. 103. R.
25. Málic	
26. Múcic	
27. Sebac'ic ?	
28. Benzóic	
29. Succin'ic	79. R.
30 ? Moroxyl'ic ?	
31. Camphor'ic	64 ?
32. Suber'ic.	
33 ? Lac'cic ?	

ORDER III. TERNARY ACIDS.

34. U'ric.
35? Rosac'ic?
36. Am'nic.

CLASS VI. SEMIACIDS.

Substances which take the place of some acids in combining with oxyds and alkalis, but either do not form permanent compounds with them, or are incapable of altering vegetable blues.

1. Prússic	Making a bright blue with iron.
2. Gal'lic	Making a dark grey with iron.
3. Tan'nic	Making a leathery compound with gelatin.
4. Hydrothéic, or sulfurated hydrogen, *ὑδροθειϊκόν*.	Blackening the compound of lead. Weight comb. 32.

CLASS VII. SALTS.

Combinations of acids with alkalis or oxyds.

ORDER I. OF SIMPLE ACIDS.

Sul'fates with Subsul'fates and supersul'fates, as varieties, Sul'fites, Phos'phates, Phos'phites, Car'bonates, Nítrates, Nitrites, Múriates, Oxymúriates? Hyperoxymúriates, Flúates, Bórates, Chrómates, Molyb'dates, Arséniates, Ar'senites, Tun'gstates, Colum'bates.

ORDER II. OF BINARY ACIDS.

Acétates, For'mates, Ox'alates, Méllates? Tártrates, Cítrates, Málates, Múcates, Benzóates, Suc'cinates, Morox'ylates? Cam'phorates, Súberates, Lac'cates?

ORDER III. OF TERNARY ACIDS.

U'rates, Rósates? Am'nates.

CLASS VIII. SEMISALTS.

Combinations of semiacids with alkalis or oxyds.

Prússiates, Gal'lates, Tan'nates with Gallotan'nates, Hydrothéates.

ELECTIVE ATTRACTION.

Kier de attractione chemica. 8. Ed. 1778; Smellie Thes. IV. 27.

Kirwan Phil. Trans. 1781. 7. 1782. 179. 1783. 15. Ir. trans. IV. 3. VII. 163.

In alcohol. Elliot. Ph. tr. 1786. 155.

Young. Phil. trans. 1809. 148.

Tables of affinity. See Chemical tables.

PRACTICAL CHEMISTRY AND PHARMACY.

Pharmacopoeia Bateana. 12. Lond. 1691.

Quincy's dispensatory, by Hooper. 8. London.

Baumé Elémens de pharmacie. 8. Par. 1773.

Gruneri via formulas conscribendi. 8. Halle. 1778.

Nicolai Recepte und curarten. 3 v. 8. Augsb. 1782. 1788-94.

Gaubius de methodo concinnandi formulas. 8. Bale, 1782.

Dossie Laboratorium, von Wiegleb. 8. Alt. 1783.

D. Monro's medical and pharmaceutical chemistry, 4 v. 8. Lond. 1788-90.

Grens grundriss der pharmacie und arzneymittellehre. 2 v. Halle, 1790.

Tode Das receptschreiben. 8. Leipz. 1792.

Gmelins grundriss der pharmacie. 8. Gott. 1792.

Trommsdorffs journal der pharmacie. 8. Leipz. 1793...

Pharmacopoea Austriacocastrensis. 8. Vienn. 1795. Digested by a committee from 41 essays, 6 of which had been rewarded by prizes.

Hagen Lehrbuch der apothekerkunst. 2 v. 8. Ed. 5. Königsb. 1797. "Every physician should have this work." Rothe.

Kirwan on the analysis of mineral waters, 8. Lond. 1799.

Trommsdorffs chemische probierkunst. 8. Erf. 1801.

Bouillon Lagrange Manuel du pharmacien. 8. Par. 1803. Cours d'étude pharmaceutique, 4 v. 8. "Comprehensive, but complicated."

Swediaur pharmaeopoeia universalis. 2 v. 18. Par. 1803.

Pharmacopoeia Edinburgensis. 12. Ed. 1805. Ed. med. journ. I. 486.

Bostock on pharmaceutical nomenclature. 8. Liv. 1807. Ed. med. journ. IV. 372.

Chaptal Chimie appliquée aux arts. 4 v. 8. Par. 1807.

* PHARMACOPOEIA Londinensis. 4. 18. Lond. 1809. Ed. med. journ. VI. 216. *Powell's* translation, with notes. 8. Ed. 2. Lond. 1809. Young in British Review, n. 4. Phillips, 8. Lond. 1811. Has pointed out some inaccuracies, but is in general much too severe.

Duncan's Edinburgh dispensatory. 8. Ed. 1810.

*Klaproth et Woulff Dictionnaire de chimie, par Lagrange et Vogel. 4 v. 8. Par. 1811. Contains an immense store of chemical facts.

(Pfingsten, Hermbstädt, Göttling, Piderit, Piepenbring, Fiedler, Plenck, Wallbaum, Mellin, Schlereth, Reuss, Triller, Dollfuss.)

APPARATUS.

Weights. Measures. Vessels. Furnaces. Fuel. Baths. Lutes. Trituration; On bellmetal mortars. Dunc. med. comm. VII. 303. Levigation. Elutriation. Exsiccation. Filtration. Evaporation. Crystallization. Distillation. Sublimation.

PREPARATIONS.

Acids. Metals and their salts; On James's powder. Chenevix, Phil. trans. 1801. 375. Alkalis and their salts; Nooth's appa-

ratus. Ph. tr. 1775. 59. Earths and their salts. Sulfurs and sulfurets. Vegetable substances: Oils; Essences or distilled oils; Distilled waters; Infusions; Decoctions; Mucilages; Extracts; Mixtures; Spirits; Tinctures; Ethereal liquids; Wines; Vinegars; Honeys; Syrups; Confections; Powders; Pills; Cataplasms. Animal substances: Plasters; Cerates; Ointments; Liniments.

ANATOMY.

Literature.) Portal hist. de l'anat. Haller bibl. anat. Sömmering de corp. hum. fabr.

DESCRIPTIVE ANATOMY.

Vesalii epitome f. Bale, 1542. Vesalius de corporis humani fabrica. f. Bas. 1555. With wooden cuts. "* *" Haller. Levelings erklärung von Vesal. f. Ingolst. 1786.

Faloppii observationes anatomicae. 8. Ven. 1561. "* *" Haller.

* Eustachii opuscula. 4. Ven. 1564. 8. Leyd. 1707. "* *" Hall. Eustachii tabulae anatomicae posth. f. Rom. 1711. Cum Albini commentario. f. Leyd. 1761. "* *" Haller. "The best plates extant, except of the absorbents." Rothe.

Columbus de re anatomica. 8. Frankf. 1590.

Varolii anatomia. 8. Frankf. 1591.

Bidloo Anatomia. f. Amst. 1685. Cowper. f. Oxf. 1697.

* Morgagni adversaria anatomica. 3 v. 4. Bologn. 1706-17.

Heisteri compendium. 8. Vienn. 1770.

Cheselden's anatomy. 8. Lond. 1713. Germ. by Wolff. 8. Gott. 1790.

* Winslow Exposition anatomique du corps humain. 4. 12. Par. 1732. "* *" Hall.

Lieutaud Anatomie historique et pratique, par Portal. 2 v. 12. Par. 1776.

* Haller de partium corporis humani fabrica et functionibus. 8 v. 8. Bern. 1777, or Elementa physiologiae. 8 v. 4. Laus. 1777-8. Auctarium. 4. Leipz. 1780. Laus. 1782. "A man who stands next to Leibnitz." Blumenbach.

Walteri observationes anatomicae. f. Berl. 1775.
Sabatier Traité complet d'anatomie. 3 v. 8. Par. 1781.
Mayers anatomische kupfertafeln. 6 v. 4. Berl. 1783-94.
Loders anatomisches handbuch. Vol. 1. 8. Jen. 1788.
Hildebrandts lehrbuch der anatomie. 4 v. 8. Brunsw. 1789-92.
Loder Tabulae anatomicae. f. Weim. 1794. . .
* Sömmering vom baue des menschlichen körpers. 5 v. 8. Frankf. 1791. . .SOEMMERING de corporis humani fabrica, a Clossio. 8. Frankf. 1794. . . "A most excellent and philosophical work, indispensably necessary to every medical man." Rothe.
Wiedemanns handbuch der anatomie. 8. Brunsw. 1796.
J. and C. Bell's anatomy. 4 v. 8. Ed. 1797. .1804.
Hooper's anatomist's vade mecum. 8. Lond.
* Bichat Anatomie générale. 4 v. 8. Par.
* *Bichat* Anatomie descriptive. 5 v. 8. Par. 1801.
Hooper's anatomical plates, 2 parts. 12. Lond. 1803. Considering the diminutive size, very well executed.
Barclay's anatomical nomenclature. 8. Ed. 1803. Dunc. ann. 1803. 83.
Fyfe's anatomy. 3 v. 4. Ed. 1806.
Anatomical examinations. 2 v. 8. Lond. 1807.

† Comparative anatomy. See Physiology.

(Riolanus, Malpighi, Ruysch, Prochaska, Leber, Sandifort, Neubauer, Wrisberg, J. Hunter, Metzger, Schreger, Isenflamm, Vicq d'Azyr, Ludwig, Kulmus, Kühn.)

OSTEOLOGY

Including Chondrology. The history of bones and cartilages. Bones are inflexible substances: cartilages differ from bones in the absence of the earthy part.

* Albinus de ossibus. 8. Leyd. 1726. "Admirably written." Rothe. Albini icones ossium foetus. 4. Leyd. 1737. "Still unequalled." R. Tabulae sceleti et musculorum. f. Leyd. 1747. Ossium. Leyd. 1753. " * *" Haller. "Perfect." Sömmering.

Albinus de sceleto. 4. Leyd. 1761. "The most complete and accurate description existing." Rothe. Albini annot. academ.

* Cheselden Osteographia. f. Lond. 1733. Unjustly depreciated in Douglas's remarks. 8. Lond. 1735. Reduced. 12. Lond. 1811.

Monro on the bones and nerves. 12. Ed. 1741. Traité d'ostéologie, par Sue. f. Par. 1795.

Blumenbach Geschichte der knochen. 8. Gott. 1786. Illustrated by comparative anatomy.

Walter von trocknen knochen. 8. Berl. 1789.

* *Boyer* on the bones.

(Loschge.)

STRUCTURE OF BONE AND CARTILAGE.

FORMS OF BONES.

Stiffness of hollow bones. Young's Nat. Phil.

APPENDAGES OF BONES.

JOINTS.

LIGAMENTS.

Weitbrecht Syndesmologia. 4. Petersb. 1742.

Caldani Icones anatomicae. 2 v. f. Ven. 1801.

PARTICULAR BONES.

OF THE HEAD.

Cránium.) General form. Blumenbach Collectio craniorum. 4. Gott. 1790. . . Fron'tal bone. Parietal bones. Occip'ital bone. Ossa triquétra. Monro Ed. med. ess. V. 220. Tem'poral bones: Auric'ular bones: Hammer, Anvil, Lenticular bone, Stirrup, Sphénoid bone. Ethmoid bone.

Face.) Násal bones. Upper max'illary bones. Lac'rymal bones. Málar bones. Pal'ate bones. Lower tur'binated bones. Vómer. Lower jaw. Teeth. J. Hunter on the teeth. 4. Lond. 1771. 1803. Med. comm. Ed. VI. 180. Hirsch Practische bemerkungen. 8. Jen. 1796.

Lingual bone. Larynx.

OF THE TRUNK.

Spine. Os sácrum. Os coccy'gis. Thorax: Ribs; Sternum. Gemmil on supernumerary ribs and vertebrae. Ed. med. ess. V. 336. Pelvis: Ossa ilii; Ossa ischii; Ossa pubis; Acetabulum; Ligaments.

OF THE UPPER EXTREMITY.

Clavicle. Scap'ula, Húmerus. Ulna, Rádius. Wrist: Scáphoid bone; Lunar bone; Cúneiform bone, Pis'iform bone; Os trapézium; Os trapezoídes seu pyramidále; Os magnum; Os un'ciforme. Hand: Metacar'pal bones; Thumb; Fingers.

OF THE LOWER EXTREMITY.

Fémur. Tib'ia. Fib'ula. Patel'la. Knee. Társus: Astragalus; Os cálcis; Os scaphoídes; Os cúneiforme internum; medium; externum; Os cuboídes. Foot: Metatar'sal bones; Toes; Ossa sesamoidéa.

MYOLOGY.

The history of Muscles. Muscles are manifestly fibrous organs, capable of active contraction.

* Albini historia musculorum. 4. Leyd. 1734 " ** " Hall. Ab Hartenkeil, 4. Frankf. 1784. " The best and completest description." Rothe. Albini tabulae musculorum. f. Leyd. 1740. " ** " Hall.

Walther Myologisches handbuch. 8. Berl. 1777.

Barth Anfangsgründe der muskellehre. f. Vienn. 1786.

STRUCTURE OF MUSCLES.

See Physiology.

FORMS OF MUSCLES.

See Physiology.

APPENDAGES OF MUSCLES.

Monro on the bursae mucosae. f. Lond. 1788.
Koch de bursis mucosis. 4. Leipz. 1789.
Gerlach de bursis mucosis in capite et collo. 4. Wittenb. 1793.

PARTICULAR MUSCLES.

OF THE HEAD.

External and anterior.) Occip'ital. Frontal. Corrugátor supercil'ii. Orbiculáris palpebrárum. Levátor pal'pebrae. Rectus supérior oc'uli. Rectus intérior. Rectus extérior. Rectus inférior. Oblíquus supérior. Oblíquus inférior. Levátor auric'ulae. Retrahen'tes. Antérior. Hélicis major. Hélicis minor. Trag'icus. Antitrag'icus. Transver'sus auric'ulae. Compres'sor nárium; This muscle sometimes turns out the ala. Depres'sor álae nási. Levátor labionasális; The name Levátor labii superioris alaeque nasi is too long. Nasális lábii superióris. Orbiculáris oris. Zygomat'icus minor. Zygomat'icus major. Levátor an'guli oris. Buccinátor. Depres'sor an'guli oris; or Trianguláris. Quadrátus menti; or Depres'sor lábii inferióris. Levátor menti; or Levátor lábii inferióris próprius. Sublinguális; arising below the eye-tooth. Latis'simus colli; or Platys'ma myoides.

Internal.) Of the ear: Exter'nus mal'lei; or Laxátor tym'pani major; Inter'nus mal'lei, or Ten'sor tym'pani; Supérior mal'lei, or Laxátor tym'pani minor; Stapédius; The actions of these muscles have not been sufficiently investigated. Of the lower jaw: Temporális; Masséter; Pterygoidéus externus; Pterygoidéus inter'-

nus; Digas'tricus; Stylohyoidéus; Geníohyoidéus; Mylohyoidéus. Of the tongue: Linguae fibrae longitudináles, transver'sae, verticáles; Linguális; Styloglos'sus; Hyoglos'sus; Myloglos'sus. Home on the tongue. Phil. trans. 1803. 205. Of the fauces: Levátor paláti; Circumflex'us palati; Palátopharyngaéus, or Constric'tor faúcium postérior, major, more properly U'ranopharyngaéus (Aph. 223); Constric'tor faúcium antérior, minor, Constric'tor isthmi faúcium, rather U'ranoglos'sus; Az'ygus úvulae; Sty'lopharyngaéus; Salpin'gopharyngaéus; Constric'tor pharyn'gis supérior; médius; inférior: Céphalopharyngaéus? See also muscles of the trunk.

Inferior, chiefly in the neck.) Of the head and chest; Sternoclídomastoidéus. Of the larynx: Thyr'eohyoidéus; Thyr'eoepiglot'ticus major; minor; Thyr'eoarytaen'oidéus major; minor; Arytaen'oidéus obliquus; Arytaen'oidéus transver'sus, az'ygus; Crícoarytaen'oidéus postícus; laterális; Crícothyr'eoidéus; Ster'nohy'oidéus; O'mohy'oidéus; Ster'nothyr'eoidéus.

Posterior.) See the muscles of the back.

OF THE TRUNK.

In the order of dissection.

Of the back.) Trapézius. Latis'simus dórsi. Rhomboídes. Levátor scap'ulae. Serrátus magnus. Serrátus supérior postícus. Serrátus inférior postícus. Splénius cápitis. Splénius colli. Sácrolumbáris. Longis'simus dor'si. Cervicális descen'dens. Spinális dor'si. Semispinális dor'si, or Transver'sospinális dor'si. Transversális cervícis. Trachélomastoidéus. Complex'us. Semispinális cervícis. Oblíquus inférior cap'itis. Oblíquus supérior cap'itis. Rectus cap'itis postícus major; minor. Multif'idus spínae. Interspináles. Intertransversáles. Levatóres costárum. Quadrátus lumbórum. Longus colli. Rectus major cap'itis antícus. Rectus minor cap'itis antícus. Rectus cap'itis laterális. Scalénus postérior; médius; antérior.

Of the chest.) Pectorális major; minor. Intercostáles externi;

interni. Infracostáles. Sternocostáles. Monro. Ed. ess. phys. and lit. I. 447. Subclávius.

Of the abdomen.) Oblíquus externus ; internus. Transversus. Rectus. Pyramidális. Diaphragm. Psoas magnus ; minor. Ilíacus internus.

Of the pelvis.) See Splanchnology. (Cremas'ter. Accelerátor urínae. Sphin'cter vagínae ; Erec'tor pénis. Erec'tor clitor'idis f. Ascen'dens perinaéi, or Transver'sus perinaéi alter. Transver'sus perinaéi. Depres'sor uréthrae femin'eae. Wilson on two muscles surrounding the membranous part of the urethra, Medicoch. tr. I. 175. Sphin'cter áni exter'nus ; inter'nus. Is'chiococcygaéus. Sácrococcygaéus postícus, or Híerococcygaéus ? Curvátor coccy'gis próprius. Vesicális púbis.)

OF THE UPPER EXTREMITY.

Scapular.) Del'toid. Supraspinátus. Infraspinátus. Téres minor. Téres major. Subscapuláris. Cor'acobrachiaéus. Bíceps flex'or cúbiti. Tríceps bráchii.

Brachial and cubital.) Brachiaéus inter'nus. Anconaéus. Pronátor rádii téres. Radiális inter'nus, or Flex'or car'pi radiális. Palmáris longus. Ulnáris inter'nus. Flex'or digitórum sublímis. Flex'or digitórum profun'dus : lumbricáles. Flex'or longus pol'licis. Pronátor rádii quadrátus. Supinátor rádii lon'gus. Radiális exter'nus lon'gior ; brévior. Exten'sor digitórum commúnis. Ulnaris exter'nus. Supinátor rádii brévis. Exten'sor prími internódii pol'licis ; Exten'sor médii internódii ; Exten'sor ul'timi internódii. Exten'sor in'dicis.

Of the hand.) Abduc'tor pol'licis ; Oppónens ; Flex'or brévis ; Adduc'tor. Palmáris brévis. Abduc'tor min'imi dig'iti ; Flex'or brévis ; Flex'or metacar'pius. Interos'sei inter'ni 4 ; externi 3. Abduc'tor in'dicis.

OF THE LOWER EXTREMITY.

Arising from the pelvis.) (Psóas, Ilíacus). Glutaéus max'imus; médius; min'imus. Pyrifor'mis. Obturátor inter'nus. Gemel'lus supérior; inférior. Obturátor exter'nus. Quadratus fem'oris. Ten'sor vagínae fem'oris. Sartórius. Rec'tus crúris. Vastus exter'nus. Crurális. Vas'tus inter'nus. Pectinális. Adduc'tor lon'gus fem'oris; Adduc'tor brévis; Adduc'tor magnus. Grac'ilis. Bíceps crúris. Semitendinósus. Semimembranósus.

Of the leg.) Posterior: Gastrocnémius; Plantáris; Soleáris; Poplitális; Flex'or lon'gus digitórum pédis: Massa car'nea Sylvii, or Accessórius flexóris longi, Lumbricáles; Tibiális postícus; Flex'or lon'gus pol'licis pédis. Antérior: Tibiális antícus; Exten'sor pol'licis pédis; Exten'sor longus digitórum pédis; Peronaéus ter'tius; brévis; longus.

Of the foot.) Exten'sor brévis digitórum pédis; Flex'or brévis digitórum; Abduc'tor pol'licis, Flex'or brévis, Adduc'tor. Transver'sus pédis. Abduc'tor min'imi dig'iti pédis; Flex'or. Interos'sei inferióres 2 or 3; exter'ni 4.

SPLANCHNOLOGY.

The history of the viscera. Viscera are circumscribed bodies, principally vascular.

Malpighi viscerum anatomia. 12. Lond. 1669.
Warton glandularum descriptio. 12. Amst. 1669.
Garengeot Splanchnologie. 2 v. 12. Par. 1742.
Baillie on a transposition of the viscera. Phil. trans. 1788. 350.
Ludwig icones cavitatum thoracis et abdominis. f. Leipz. 1789.
Sandifort tabulae viscerum. f. Leyd. 1801. Ed. med. journ. III. 469.

GLANDS ABOUT THE HEAD AND NECK.

Warton glandularum descriptio.
Nuck adenographia. 8. Leyd. 1691.

Pitúitary gland? Lac'rymal; Parótid; Submaxillary, Sublin'gual; Thyr'eoid gland. Female breast. Kölpin de structura mammarum. 4. Berl. 1765.

VISCERA OF THE THORAX.

Thorax in general. Lungs. Monro on the contiguity of the lungs and pleura. Ed. ess. phys. and lit. II. 276. Thymus.

VISCERA OF THE ABDOMEN.

Abdómen in general. Alimentary canal. Fauces. Watt's anatomicochirurgical views. f. Lond. 1809. Stomach. Glissonius de ventriculo et intestinis. 1677. Home Phil. trans. 1807. Cardia. Great extremity. Greater curvature. Lesser curvature. Pylórus; Valve. Coats: Peritoneal; Muscular; Internal. Intestines. Lieberkühn de tunica villosa intestinorum. 4. Leyd. 1745. 1765. "* * *" Haller. A Sheldon. 4. Lond. 1782. Monro. Ed. med. ess. IV. 65, 76. Duodénum. Jejúnum. An unusual stricture. Baillie's engr. 81. Valvulae conniventes. Il'eum. Caécum: Valve; Appendix vermiformis. Colon: Head; Transverse arch; Sig'moid flexure; Bands. Rectum. Mesogas'trium, Omentum, Mes'entery, Mesocólon, Appendic'ulae epiplóicae. Liver. Glissonii anatomia hepatis. 12. Lond. 1654: somewhat tedious. Lobes. Lóbulus, ἀκρόπατος λοβὸς of Nicander. Great fissure. Transverse fissure, or Portae. Fossa cys'tica. Ligaments: Broad or suspensory; Round, ductus venósus; Transverse. Structure: Pori biliarii. Gall bladder. Ductus communis cholédochus. Pancreas. Brunner de pancreate. 8. Amst. 1682. "* * *" Haller. Spleen: Capsule; Structure. Malpighi. Home. Phil. trans. 1808. Kidney. Schumlanzky de structura renum. 4.

Strasb. 1782. Dr. J. Hunter on a double kidney on one side. Lond. Med. tr. III. 250. Proper capsule; Cortical substance; Tubular substance; Pelvis; Uréter. Renal capsule: Cavity.

VISCERA OF THE PELVIS.

Graaf opera. 8. Lyons. 1678.

Bladder.) Peritonaeal covering; Muscular fibres; Internal membrane.

Male organs.) Martin on the seminal vessels. Ed. med. ess. V. 227. Monro on the spermatic vessels and scrotum. Ed. med. ess. V. 249. Ed. ess. phys. and lit. I. 396. Scrotum. Testis. A. Monro de testibus. 8. Ed. 1755. Smellie Thes. II. 317. Tubuli. Rete. Tunica albugin'ea. Tunica vaginális. Epidid'ymis. Vas def'erens. Vesic'ulae semin'ales. Prostate gland. Home on a small lobe of the prostate. Phil. trans. 1806. 195. "Known to Lieutaud and Morgagni." Ed. med. journ. III. 96. Cowper's glands. Uréthra. Corpus spongiósum. Cor'pora cavernósa.

Female organs.) Walter über die geburtstheile des weiblichen geschlechts. 4. Berl. 1776. Lábia. Clit'oris. Nymphae. Hy'men. Tolberg de varietate hymenum. 4. Hall. 1791. Carun'culae myrtifor'mes. Vagína. U'terus: Os; Cervix; Fundus; Tubae; Cor'pora fimbráita. Ovária. Baillie on a change in the ovarium. Phil. trans. 1789. 71. Hair and teeth.

† See Myology.

DERMATOLOGY.

The history of membranes. Substances laminated, soft, and generally transparent.

Bichat Traité des membranes. 8. Par. 1800. Chiefly included in his Anatomie générale.

Cellular Membrane. Serous membrane. Mucous membrane: Synovial membrane, See Osteology. Skin. Albinus de colore Aethiopum. 4. Amst. 1738. Cutis; Rete mucosum; Cuticle.

ANGIOLOGY.

The history of vessels, containing fluids.

* Albinus de colore Aethiopum et de vasis intestinorum.
* Halleri icones anatomicae. 8 v. f. Gott. 1747-56.
Mayer Beschreibung der blutgefässe. 8. Berl. 1777.
Walters angiologisches handbuch. 8. Berl. 1789. " Differs from Haller in the hand." Rothe.
Kirtland's coloured plates of the bloodvessels. Lond. 1804.

HEART.

Lower de corde. 8. Lond. 1669.
Back de corde. 12. Rotterd. 1671.
* Senac du coeur, par Portal. 2 v. 4. Par. 1778.
Percival de corde. 8. Edinb. 1780.
Wolff Nov. Act. Acad. Petr. pass.
Pericardium. Baillie on the want of a pericardium. Tr. soc. med. chir. kn. I. 91. Form. Wilson on an unusual formation of the heart. Phil. trans. 1798. 346; A single auricle and ventricle, without observable disease. A. Burns on diseases of the heart. 8. Ed. 1809. Ed. med. journ. V. 340. Right auricle; Tubercle of Lower; Valve of Eustachius; Appendix; Fossa ovalis; Tricuspidate valve. Right ventricle; Car'neae colum'nae; Foram'ina Thebésii; Sig'moid valves; Corpus sesamoidéum Aran'tii. Left Auricle: Mitral valve. Left ventricle.

ARTERIES.

A. Murray descriptio arteriarum in tabulas redacta. 8. Leipz. 1794. " Differs from Haller in the foot." Rothe. Eng. by Lawrence. 8. Lond. 1801.
C. Bell's engravings of the arteries. 4. Lond. 1801.

TABULAR ENUMERATION OF THE ARTERIES.

Pul'monary artery.
Aor'ta.
Cor'onary arteries.
Clidocarot'id, " Innominata."
Right carot'id.
External carot'id.
Superior thyreoidéal.
Lingual, or Ranine.
External max'illary.
Submen'tal.
Coronary of the lips.
Ascending pharyngeal.
Occip'ital.
Posterior of the ear.
Trans'verse facial.
Tem'poral.
(Trans'verse facial, sometimes).
Frontal.
Parietal.
Occip'ital branch.
Internal max'illary.
Medial of the dura mater.
Inferior max'illary.
Deep seated tem'poral branches.
Alveolar.
In'fraor'bital.
Upper palatine.
Upper pharyngéal.
Sphenopal'atine, or Nasal.
Internal carot'id.
Ophthal'mic.
Three branches.
Right subclavian, ax'illary, brachial.
[Ver-

Ver'tebral, bas'ilary.
Inter'nal mam'mary.
Cervical, (or cer'vical).
  Anterior branch.
  Posterior.
Superior intercos'tal trunk.
Inferior thyr'eoid.
Suprascap'ular.
External mam'mary, sup. and inf.
Infrascap'ular.
Posterior cir'cumflex.
Anterior cir'cumflex.
Deep seated of the shoulder,
  superior and inferior.
Anastom'ic.
Ulnar.
  Ulnar recurrent.
  Anterior interosseous.
  Posterior.
  Superficial palmar arch.
  Deep seated ulnar.
Radial.
  Radial recurrent.
  Superficial of the palm.
  Deep seated palmar arch.

Left carot'id.
Left subclávian.
Intercostals.
Bronchial pair.
Inferior bronchial.
Oesophagéal, from 3 to 6.
Phren'ic pair.
Coéliac.

Cor'onary of the stomach.
Hepat'ic.
  Py-

- Pylor'ic.
- Right gas'troepiplóic.
  - Duodénal.
- Cystic.
- Two hepat'ic branches.

Splen'ic.
- Pancreat'ic.
- Left gas'troepiplóic.
- Vása brévia.
- Splen'ic branches.

Superior mesenter'ic.
- Mesenter'ic branches.
- Right col'ic.
- Ileocol'ic.

Cap'sular pair.

Emul'gent pair.
- (Right capsular, often).

Spermat'ic pair.

Inferior mesenter'ic.
- Left col'ic.
- Intestínal branches, (or intes'tinal).
- Internal haemorrhóidal.

Lumbar pairs.

Sácral.

Il'iac trunks.

Internal il'iac.
- Lesser iliac, or iliolum'bar.
- (Obturatorial, sometimes.)
- Glutéal.
- Sciat'ic.
- Pudical.
  - External haemorrhóidal.
  - (Middle haemorrhóidal, sometimes.)
  - Perinaéal.
  - Verétral, or virgal.

Ur-

Uréthral.
Dorsal.
Cav'ernous.
Obturatórial.
Hypogas'tric, or umbilical.
Vesical.
(U'terine.)
Middle haemorrhóidal.
External iliac, femoral, poplitéal.
Epigas'tric.
(Obturatorial, sometimes.)
Cir'cumflex of the ilium.
External pudical branches.
Deep seated of the thigh.
Circumflex, intern. and ext.
Artic'ular branches.
Anterior tibial.
(Fibular, sometimes ?)
Recur'rent.
Malléolar branches.
Tar'sal and metatar'sal br.
Posterior tib'ial.
Fib'ular.
Anterior fibular.
Nutrient of the tib'ia.
External plantar.
Plantar arch.
Internal plantar.

VEINS.

Superior cava.
Az'ygus.
Right intercos'tal branches.
Left lower intercos'tals.
Right internal mam'mary.
Sub-

Subclávians, Ax'illaries.
Exter'nal júgular.
Frontal.
An'gular of the eye.
Tem'poral.
Auric'ular.
Lin'gual.
Occip'ital.
Suprahúmeral.
Internal júgular.
Lat'eral sinuses.
Supérior longitúdinal sinus.
Tor'cular.
Occip'ital sinus.
Petrósal sínuses.
Cav'ernous sinus.
Cir'cular sinus.
Ver'tebral.
Cephal'ic, Rádial.
Cephal'ic median.
Cephalic of the thumb.
Basil'ic, Ulnar.
Basil'ic médian.
Common médian.
Deep seated of the arm.
Left subclávian, also
L. internal mam'mary.
L. superior intercostals.
Inferior cava.
Phrenic pair.
Hepatic branches.
Ramifications in the liver, forming again the vena portarum.
Cystic.
Pylor'ic.
Duodénal.
Right

Right gastric.
Superior mesenter'ic.
Splenic.
Coronary of the stomach.
Pancreatic branches.
Left gas'troepiplóic.
Inferior mesenter'ic, or mesaráic.
Emulgents.
Iliac trunks.
Internal iliac.
External iliac, Femoral, Poplitéal.
Greater saphéna.
Lesser saphéna.

ABSORBENTS.

Bartholinus de lacteis thoracis. 12. Lond. 1652.
Ruysch de valvulis lymphaticorum vasorum et observationes anatomicae. 8. Amst. 1665. "**" Haller.
Mekel de vasis lymphaticis glandulisque conglobatis. 4. Berl. 1757. "**" Haller.
Hewson on the blood, and on the lymphatic system. 3 v. 8. Lond. 1777.
Winterbottom de vasis absorbentibus. 8. Ed. 1781; Smellie Thes. IV. 262.
Sheldon's description of the lacteals. 4. Lond. 1784. Lond. med. journ. V. 157.
Haas de cutis et intestinorum absorbentibus. f. Leipz. 1786.
Cruikshank's anatomy of the absorbents. 4. Lond. 1787.
Mascagni. f. Sienn. 1787. * Cruikshank und Mascagni von Ludwig. 3 v. 4. Leipz. 1789-94. With literary additions and other improvements.
(Hahn.)
Thoracic duct.
Absorbents of the head.
From glands of the neck.

From glands behind the mastoid process.
From glands near the zygoma.
Absorbents of the upper extremity, Axillary trunk.
Basilic vessels, from the internal condyl.
Receptaculum chyli, or lacteal sac.
Lumbar plexus.
Inguinal plexus.
Absorbents of the pelvis. Watson. Ph. tr. 1769. 392.
Absorbents of the lower extremity.
From glands in the ham.
More deep seated.
Right trunk of the absorbents.
Abs. of the right arm.
Abs. of the right side of the head.
(Abs. of the lungs, sometimes).

NEUROLOGY.

The history of nerves, or chords connected with the brain.

Vieussens neurographia. f. Leyd. 1685.
Monro on the bones.
Monro on the nervous system. f. Ed. 1783. Lond. med. journ. IV. 113.
* Walter tabulae nervorum thoracis et abdominis, f. Berl. 1783. "A perfect masterpiece." Rothe. Reduced. 4. Lond. 1804.
Scarpa de nervorum gangliis. 2 v. 8. Pav. 1785.
Fischeri descriptio nervorum inferiorum. f. Leipz. 1791.
Behrends. . cor nervis carere. 4. Mayence, 1792.
A. Murray tabulae nervorum. 4. Ups. 1793.
Schmidt de nervis lumbalibus et plexu brachiali. 4. Vienn. 1794.
Ludwig scriptores neurologici minores selecti. 4 v. 8. Leipz. 1794-5.
Scarpa tabulae neurologicae. f. Pav. 1794.
Andersch de nervis aliquibus. 8. Königsb. 1797.

C. Bell's engravings of the nerves. 4. Lond. 1803.
(Günther, Roland, Martin.)

BRAIN.

Steno de cerebri anatome. 12. Leyd. 1671.
Mayer vom gehirn. 4. Berl. 1779.
Nihell de cerebro. 8. Ed. 1780. Smellie Thes. IV. 199.
Vicq d'Azyr's plates of the brain.
Monro on the brain. 4. Ed. Dunc. ann. 1797. 63.
C. Bell's engravings of the brain. 4. Lond. 1802.
Bischoff, Hufeland, und Walter über die Gallsche lehre. Berl. 1805. Ed. med. journ. II. 354.
Rosenmuller on Gall's discoveries. Ed. med. journ. II. 320.
Report to the Institute on Gall's discoveries. Ed. med. journ. V. 36.
Pettigrew's engravings of the brain and of the cavity containing it. Lond. 1809.

SITUATION AND SUPPORT.

Dura mater.) Paisley on a dura mater ossified. Ed. med. ess. II. 310. No morbid symptoms. Sinuses. Falx. Carlisle on the want of a falx. Tr. soc. med. ch. kn. I. 212. Tentorium: Torcular. Folds between the lobes.

Pia mater.

Arachnoid coat.

PARTS.

Cerebrum.) Substance. Convolutions and furrows. Hemispheres. Corpus callósum. Sectio ovális. Septum lucidum. Lateral ventricles: Dig'ital cavities. Fornix. Hippocampus major, minor; Corpus fimbriátum; Lyra. Corpora striata. Taénia semicirculáris. Thal'ami op'tici. Anterior com'missure. Third ventricle. Infundib'ulum. Pitúitary gland. Plexus choroidéus and vena magna.

Pin'eal gland: crura. Posterior com'missure. Passage to the fourth ventricle. Tuber'cula quadrigem'ina, or nates and testes.

Cerebellum.) Substance: Arbor vitae. Fourth ventricle: Cal'amus scriptórius; Valve of Vieussens; Vermiform appendages.

Base of the brain.) Soemmering de basi encephali. 4. Gott. 1778. Lobes of the cerebrum. Crura cerebri. Crura cerebelli. Pons Varólii. Mam'illary processes, or Corpora albiçan'tia. Medulla oblongáta. Corpora py'ramidália. Corpora ovália. Spinal marrow: Cavity, Morgagni adv. vi. n. 14. iv. n. 1; de sed. caus. ep. 5. n. 19.

CEREBRAL NERVES, AND THEIR ORGANS.

1. *OLFACTORY NERVES.*

NOSE.

Scarpa de organo olfactus. 4. Pav. 1789.

Scarpa de auditu et olfactu.

Nostrils.) Bones, See Osteology. Schneiderian membrane.

2. *OPTIC NERVES.*

Sömmering on the decussation of the optic nerves. Lond. med. journ. V. 289.

EYE.

Camper de quibusdam oculi partibus. 4. Leyd. 1746.

Walter über die blutadern des auges. 4. Berl. 1778.

* Zinn de oculo, a Wrisberg. 4. Gott. 1780.

Rosenmüller partium externarum oculi descriptio. 4. Leipz. 1797.

* Sömmering Abbildungen des menschlichen auges. f. Frankf. 1801. Ed. med. journ. I. 222.

(Plempius, Briggs, Sawry.)

Opaque parts.) Sclerot'ica. Choroidéa: Proces'sus ciliáres; U'vea; Pupil. Ret'ina? Reil Archiv, II. 468. Dunc. Ann. 1797. 19. Home on Sömmering's orifice. Phil. trans. 1798. 332.

Transparent parts.) Conjunctíva. Cor'nea. Aqueous humour. Crystalline lens. Vitreous humour. (Retina?)

The crystalline lens, κρυσταλλοειδὲς or φακοειδὲς ὑγρὸν, was sometimes called χάλαζα κρυσταλλοειδὴς, as appears from the testimony of a spurious work found in the Arabic translations of Galen, on the anatomy of living animals. Crytallinus humor, qui grando glacialis ab Aristotele appellatur. Sp. 48. Ed. Ven. 1565. This observation confirms the reading and construction of Sophocles's Oedipus tyrannus, v. 1278, which I suggested in Dalzel's analecta; ἀλλ' ὁμοῦ μέλας Ὄμβρος χαλάζης αἵματός τ' ἐτέγγετο: the dark drops of blood flowed, mixed with the humours of the eye.

Appendages.) See Physiology. Eyebrows. Eyelids: Tarsi; Glands; Eyelashes. Pal'pebra tertia. Caruncle. (Lacrymal gland.) Lacrymal pores; ducts; and sac.

3. *MOTO'RES OC'ULI.*

Branch to the lenticular ganglion.

4. *TROCHLEA'RII.*

5. *TRIGEM'INI.*

Meckel de nervo quinti paris. 4. Gott. 1748. " * *" Haller. Wrisberg de quinto pare nervorum. 4. Gott. 1777.

Ophthal'mic.
  Frontal.
  Nasal.
    Branch to the sac.
  Lacrymal.
  Lentic'ular ganglion.
Superior maxillary.
  Sphe-

Sphenomax'illary branch.
Sphenopal'atine ganglion.
Nasal branch.
Vidian nerve, to the 7th and 6th.
Pal'atine branch.
Trunk.
Posterior branch.
Exterior branch.
Dental trunk.
Infraor'bital trunk.
Inferior max'illary.
Gus'tatory.
Chorda tympani.
Mandib'ular.
Mental.

6. *ABDUCTORII.*

Descending branch.

7. *AUDITORY.*

Hard portion. Soft portion.

EAR.

Valsalva de aure. 4. Utr. 1707.
Duverney de l'ouie. 12. Leyd. 1731.
Cassebohm de aure interna. 4. Hall. 1730-5. " * * " Haller.
Cotunni de aquaeductibus auris. 4. Napl. 1760.
* Scarpa de auditu et olfactu. f. Pav. 1789.
Saunders on the ear. f. Lond. 1806.
* Sömmering Abbildungen des hörorganes. f. Frankf. 1806.
External ear. Meatus. Membrana tympani, " Myringa" Sennert.
See Aph. 220. Ossicles. Vestibule, Cochlea, See osteology.

8. *PAR VAGUM.*

Glossopharyngéal.
Principal trunk.
Branch-

Branches to the cervical ganglion.
Branch to the glos'sopharyngéal.
Phar'yngéal.
Lar'yngéal.
Branches to the car'diac plexus.
Recurrent.
Pulmonary plexus.
Oesophagéal plexus.
Cor'onary plexus of the stomach.
Accessórius.

9. *MOTORES LINGUAE.*

Descending of the ninth.

10. *SUBOCCIPITAL.*

SPINAL NERVES.

Ganglions
First cervical nerves
Second
Third
  Phren'ic
    Hepatic branch
Ax'illary plexus
  Scap'ular nerve
  Three thorac'ic branches
  Proper ax'illary
  Mus'culocutáneous
  Médian
  Ulnar
  Internal cutáneous
  Radial
Twelve dorsal pairs
  Intercostal branches
  Great sympathet'ic, or intercostal
    Su-

- Superior cervical ganglion
  - Branches to the pharynx
  - Superficial cardiac
- Branches to the cardiac plexus
- Inferior cervical ganglion
- Dorsal ganglion
  - Splan'chnic pair
    - Semilúnar ganglion
      - Sólar plexus
        - Coéliac plexus
        - Hepatic plexus
        - Splenic plexus
        - Renal plexus
        - Superior mesenteric plexus
        - Inferior mesenteric plexus
        - Hypogastric plexus
        - Spermatic plexus
- Branches to the viscera
- Terminal arch

Five lumbar pairs

- Crural nerve
  - Femoral branch
  - Saphénal branch
- Obturatórial nerve
- Sciat'ic, see sacral nerves

Five or six sacral pairs

- Superior seminal
- Pudical
- Branch to the pelvis
- Glutéal branch
- Sciatic
  - Tibial
    - Internal plantar
    - External plantar
  - Fibular

PRACTICAL ANATOMY.

Dissection and Preparation.

Monro on anatomical preparations. Ed. med. ess. I. 94. III. 107.

Sue Art d'injecter, de disséquer, et d'embaumer. 12. Par. 1765.

Pole's anatomical instructor. 8. Lond. 1790.

* Fischer anweisung zur practischen zergliederungskunst. 2 v. 8. Leipz. 1791. From Pole, Leyser, Cassebohm, Lieutaud, and Fabricius.

London dissector. 12. Lond.

Osiander über das aufbewahren in weingeist, von Sömmering. 4. Gott. 1797.

Wichelhausen über die wachsbildnerey, nebst nachrichten von der sammlung in Florenz. 8. Frankf. 1798.

C. Bell's system of dissections. 2 v. f. Lond. 1800...

Prost ouverture des corps. 2 v. 8. Par. 1804. Ed. med. journ. I. 453.

PHYSIOLOGY.

OF HEALTH.

GENERAL WORKS.

Galen on the parts of the human body.

Descartes de homine. 4. Amst. 1677.

Boerhaave institutiones, ab Haller. 6 v. 8. Amst. 1742-4.

HALLERI primae lineae physiologiae. 8. Gott. 1747. Ed. 1767. A Wrisberg. 8. Gott. 1780. Germ. Hall. 1788. By A. Duncan. 8. Ed. 1801.

* Halleri elementa physiologiae. A useful work for reference, but which appeared to me to repay very inadequately the labour of four months spent in reading it through.

Bonnet sur les corps organisés. 2 v. 8. Amst. 1768.

Fordyce's elements of the practice of physic. 8. Lond. 1771.

* *Cullen's* institutions of medicine. 12. Ed. 1777.

Caldani institutiones physiologicae. 8. Leyd. 1784.

Moore's medical sketches. 8. Lond. 1786.

* Blumenbachii institutiones physiologicae. 8. Gott. 1787, 1797.

* GREGORY conspectus medicinae theoreticae. 2 v. 8. Ed. 1790.

Metzger von der natur des menschen, in aphorismen. 8. Königsb. 1795. "Short, clear, and complete, with literature." Rothe.

Darwin's zoonomia. See General works.

Dumas Principes de physiologie. 4 v. 8. Par. 1800-3. A work of little importance. Imper. Rev. March. 1804.

Cuvier's introduction to the study of the animal economy. 8. Ed. 1801.

Richerand Elémens de physiologie. 8. Par. 1801. By Kerrison. 8. Lond. 1803. Imper. Rev. Sept. 1805.

Garnett's zoonomia. 4. Lond. 1804.

Darwin's temple of nature. 4. Lond. 1805. Fanciful. Imp. Rev.

(Hildebrandt, Kreyssig, Jadelot, Gönner, Hunter).

MISCELLANEOUS WORKS.

Keill tentamina medicophysica. 8. Lond. 1718.

Fontana on poisons, by Skinner. 2 v. 8. Lond. 1787. "Should be read by every physician." Rothe.

Spallanzani's essays. 2 v. 8. Lond. 1784. Dunc. med. comm. XX. 1. With Stevens on digestion.

Roose über die gesundheit. 8. Gott. 1793.

* Reils archiv für die physiologie. 8. Halle. 1795...

Roose Physiologische untersuchungen. 8. Brunsw. 1796.

COMPARATIVE PHYSIOLOGY & ANATOMY.

Swammerdam historia insectorum. 4. Leyd. 1683. "* *" Hall.

Swammerdam biblia naturae. f. Amst. 1738. "* *" Hall.

Trembley sur le polype d'eau douce. 4. Leyd. 1744. "* * *" Hall.

Lyonnet Anatomie de la chenille du saule, 4. Hag. 1760. "* * *" Hall.

J. Hunter on an amphibious biped. Phil. trans. 1766. 307.

Dicquemare on sea anemonies. Phil. trans. 1773. 361. 1775. 207. 1777. 56.

Monro's comparative anatomy. 8. Ed. 1775.

Fontana on the animal body. Ital. 4. Flor. 1775.

G. Bell de physiologia plantarum. 8. Ed. 1779.

Bruce on the averrhoa carambola. Phil. trans. 1785. 356.

Monro on fishes. f. Ed. 1785.

Vicq d'Azyr Traité d'anatomie et de physiologie. f. Par. 1786-90.

J. Hunter on whales. Phil. Trans. 1787. 371.

Ludwig anatomiae et physiologiae comparativae brevis expositio. 4. Leipz. 1787...

Monro on the nervous system.

Blumenbach on comparative physiology. Comm. Gott. IX. Dunc. med. comm. XIV. 156.

Von Uslar on plants. 1795.

Abernethy on the whale. Phil. Trans. 1796. 27.

Home and Menzies on the otter. Phil. trans. 1796. 385.

Darwin's phytologia. 4. Lond. 1800.

* *Cuvier* Leçons d'anatomie comparée. 5 v. 8. Par. 1800. Dunc. ann. 1801. 223. Engl. 2 v. 8. Lond. 1800.

Thomas on the rhinoceros. Phil. trans. 1801. 145.

Home on the ornithorhynchus paradoxus. Phil. trans. 1802. 67. 348.

* BLUMENBACH'S comparative anatomy, by Lawrence. 8. Lond. 1807. Includes a concise account of the latest observations.

Smith's introduction to botany. 8. Lond. 1807.

Ellis on the effects of germination, vegetation, and respiration on air. 8. Lond. 1807.

Home on the wombat. Phil. trans. 1808. 304. On the squalus maximus. 1809. 212. On the ovivivíparous shark. 1810. 205.

(Ebel, Josephi.)

SENSATION AND NERVOUS ENERGY.

VITAL POWERS IN GENERAL.

Literature.) Kühn bibl. med. I. 254-9.
Kaau Boerhaave impetum faciens. 12. Leyd. 1745.
Haller. See motion.
Brocklesby. Phil. trans. 1755. 240.
Nose uber die erfordernisse zu theorieen. 8. Hall. 1795.
Brandis über die lebenskraft. 8. Hanov. 1795.
Roose von der lebenskraft. 8. Brunsw. 1797.
Humboldt über die gereizte faser. 8. Posen. 1797. Dunc. ann. 1798. 103. 1799. 211.
Woodham on Wilson's opinions. Ed. med. journ. V. 286.
Wilson on opinions of Bichat. Ed. med. journ. V. 301.

ANIMAL ELECTRICITY.

J. Hunter on the torpedo. Phil. trans. 1773. 481. On the gymnotus. 1775. 395.
Galvani's experiments. Med. facts. III. 180.
* Volta on Galvani's discoveries. Phil. tr. 1793. 10.
Valli on animal electricity. 8. Lond. 1793. Dunc. med. comm. XVIII. 1. Med. facts. III. 190, 212.
Fowler on animal electricity. 8. Lond. 1793. Dunc. med. comm. XVIII. 17.
Monro on animal electricity. Ed. trans. III. 231. 4. Ed. Dunc. med. comm. XIX. 38.
Wells on Galvani's experiments. Ph. tr. 1795. 246.
Ritter on galvanism. 8. Weim. 1798. Dunc. ann. 1800. 278. 285.
Nicholson on galvanism. Nich. Journ. Dunc. ann. 1800. 291.
Aldini on galvanism. 4. Lond. 1803.
Kellie on the electricity of Animals. Dunc. ann. 1803. 305.

Wilkinson on galvanism. 2 v. 8. Lond. 1804. Ed. med. journ. I. 468.

† See Chemistry.

NERVOUS SYSTEM IN GENERAL.

Hartley on man. 8. Lond. 1801.

Stuart de systematis nervosi officiis. 8. Ed. 1781. Smellie Thes. IV. 227.

BRAIN.

Structure. Decussation of the fibres. See anatomy. Supposed pulsation. The pulsation of the brain is of two kinds; one occasioned by that of its arteries, the other by the resistance produced by respiration; and the latter seems not to be observable unless the animal is crying, or otherwise compressing the air contained within the thorax, so that contradictory conclusions have been formed respecting it. Y.

NERVES.

Martin on cutting the recurrent nerves. Ed. med. ess. II. 114.

Johnstone on ganglions. Phil trans. 1764. 177. 1767. 118. 1770. 30. On the nervous system. 8. Lond. 1795.

Teckel and Hunter on the insensibility of tendons. Med. obs. inq. IV. 343.

Vicq d'Azyr on sensibility. Soc. R. méd. I. 340.

Prochaska de structura nervorum. 8. Vienn. 1779.

Monro on the nervous system. Monro, Med. comm. Ed. VI. 111.

Fontana sur les poisons.

Reil de structura nervorum. f. Hall. 1796.

Home on the structure of nerves. Phil. trans. 1799. 1.

Home on the irritability of nerves. Phil. trans. 1801. 1.

Sewel on a canal in the spinal marrow of quadrupeds. Phil. trans. 1809. 146. See anatomy.

ORGANS OF SENSE.

Common feeling.) Bichat Anat. génér. Pleasure. Pain. Sense of heat and cold. Hunger. Thirst. Anxiety.

Touch.) (Skin and its appendages.)

Taste.) (Tongue.)

Smell.) (Nostrils.)

Hearing.) (Ear.) See Nat. Phil. I. 386. II. 271. Fen Sleigh de auditu. 8. Ed. 1753; Smellie Thes. II. 37. Odier de musicae sensationibus. 8. Ed. 1770; Smellie Thes. III. 181. J. Hunter on the organ of hearing in fish. Phil. trans. 1782. 379. Comparetti de aure interna comparata. 4. Pav. 1789. Home on the membrana tympani. Phil. trans. 1800. 1. Carlisle on the stapes. Phil. trans. 1805. 198. The use of the semicircular canals has never been satisfactorily explained: they seem, however, to be very capable of assisting in the estimation of the acuteness or pitch of a sound, by receiving its impression at their opposite ends, and occasioning a recurrence of similar effects at different points of their length, according to the different character of the sound; while the greater or less pressure of the stapes must serve to moderate the tension of the fluid within the vestibule, which serves to convey the impression. The cochlea seems to be pretty evidently a micrometer of sound. Y.

Vision.) (Eye.) See Nat. Phil. I. 447. II. 310. Newton's opticks. "* * *" Haller. * PORTERFIELD on the motions of the eyes, Ed. med. ess. III. 160. IV. 124. Porterfield on the eye. 2 v. 8. 1759. Camper de visu. 4. Leyd. 1746. Wilson de luce. 8. Ed. 1749; Smellie Thes. I. 409. On the seat of vision, Darwin. Phil. trans. 1778. 86. André on the eyes of the monoculus. Phil. trans. 1782. 440. R. W. Darwin on ocular spectra. Phil. trans. 1786. 313. Maskelyne on the dispersion of light as affecting vision. Phil. trans. 1789. 256. Young on vision. Phil. trans. 1793. 169. Home's facts relative to Hunter's intended Croonian lecture. Phil. trans. 1794. 21. Hosack on vision. Phil. trans. 1794. 196. Home's Croonian

lectures. Phil. trans. 1795. 1. 1796. 1. 1797. 1. 1802. 1. P. Smith on the eyes of birds. Phil. trans. 1795. 263. Herschel on the illuminating power of light. Phil. trans. 1800. 255. Young on the mechanism of the eye. Phil. trans. 1801. 23. Ware on a recovery of sight. Phil. trans. 1801. 382. Chenevix on the humours of the eye. Phil. trans. 1803. 195. Wells on vision. Phil. trans. 1811. 378; found that the iris and the power of accommodation were equally affected by the belladonna; while the actions of the external muscles remained unimpaired. Mr. Home, in his last Croonian lecture on vision, laments that Benjamin Clerk could not then be found: he has however since returned to this country, and experiments have been made on his sight in the presence of the late Mr. Cavendish, Mr. Home, Mr. Brodie, and Dr. Young; after the most patient examination, it appeared that the imperfect eye, from which the crystalline lens had been extracted, possessed no power whatever of altering its focus, while the same tests exhibited a very considerable change in the focal distance of the perfect eye. Y.

SENSATIONS.

Transmission.) The "nature of sensations," as transmitted by the nerves, may be "illustrated by the example of sound, the essence of which is undeniably motion: the sensation of light" also manifestly originates in motion, and, according to the opinion of Newton, as well as upon the principles of those who adopt the theory of Huygens, this motion, as it affects the retina, is decidedly vibratory. Hence we may deduce a "probable inference with respect to other sensations: touch" being "a simple impression of motion or pressure," of a certain intensity, extent, and duration; and "smell and taste" which seem to differ only in the nerves which they affect, being both dependent on certain "minute vibrations, which must demonstrably exist in the particles of bodies, considered as infinitely elastic:" there being many reasons to believe that the constituent particles of solid bodies are held in equilibrium by certain forces, without actually

touching each other, and all independent elastic bodies being as necessarily thrown into vibration, by any force which acts on them, as a bell is made to sound when it is struck. Newton has supposed the vibrations, which he attributes to the retina, to be transmitted by the nerves in a manner resembling the passage of light through a transparent body, which may be illustrated by the transmission of sound through a long pipe containing air or water; and there is no mechanical objection whatever to such an explanation, which exhibits an "analogy with the transmission of electricity," if not an "identity." Syllabus of a course of medical lectures. But even granting the truth of this theory, it brings us very little nearer to a clear idea of the nature of sensations, as affecting the mind; for there seems, both in the eye and in the ear, to be an arrangement to supersede the necessity of the performance of the numerical operation of counting vibrations within the brain; each sentient point of the retina appearing to be capable of receiving only three distinct and primitive impressions of colour, variously combined; and the semicircular canals, with the cochlea, probably serving to substitute the impression of certain parts of the nerve being peculiarly affected, for that of the frequency of the recurrence of the pulsation. The other organs of sense, which are destitute of this intermediate arrangement, seem to be capable of much less precision in appreciating the relations of the subjects of their respective functions. And with respect to the soul itself, it appears to be decidedly of a nature superior to all mechanical and even vital powers. Y.

FACULTIES OF THE MIND.

IN GENERAL. PSYCHOLOGY.

Ploucquet über die erbfähigkeit der kinder. 8. Tub. 1779. Platner Neue anthropologie. 8. Leipz. 1790. Metzger Anthropologie. 8. Weissenf. 1790. Usteri Anthropologie, nebst literatur. 8. Zur. 1791. Grosse Magazin für die naturgeschichte des menschen. 8. Zittau, 1789-91. Loder. Wagner.

MEMORY.

ASSOCIATION?

H. Cullen de consuetudine. 8. Ed. 1780. Smellie Thes. IV. 151.

THOUGHT.

Locke on the human understanding. 2 v. 8.
Reid, Stewart, Kant??

SYMPATHY.

Opuscula de mirabili sympathia, edente Schlegel. 8. Leipz. 1787. Veit de organis. 8. Hall. 1797. The muscles which move the eye are subjected to insuperable associations of sympathy, although their motions are in one sense strictly voluntary. For instance, when one eye is diseased, it is by no means sufficient to cover this eye only, "in order to give rest to its muscles," as has been advised by a modern author, (Phil. trans. 1797,) since these muscles unavoidably follow the motions of the sound eye, as we may easily feel through the eyelid. Nor can we disturb the parallelism of the vertical diameters of the irides by any effort that we can make.

PATHEMATOLOGY.

Gesenius pathematologie. 8. Erf. 1786. Falconer on the influence of the passions. 8. Lond. 1788. Dufours.

SLEEP. TORPIDITY.

Simon on the reviviscence of snails. Phil. trans. 1774. 432. Cleghorn de somno. 8. Ed. 1783; Smellie Thes. IV. 380. Nudov; theorie des schlafs. 8. Königsb. 1791. Reeve on torpidity. 8. Lond. 1809; Ed. med. journ. VI. 106. A theory of sleep, Quarterly Rev. 1809. II. 157. † See Respiration.

PHYSIOGNOMY.

Lavater physiognomische fragmente. 4 v. f. Leipz. 1775-8. Abridged by Armbruster. 8. Leipz. 1783. Engl. by Hunter. Camper Traité des visages. 2 v. 4. Utr. 1791-2. Gall's physiognomy, with strictures by Hufeland. 8. 1807. See anatomy, associated motions, and pathogony.

MOTION.

Borellus de motu animalium. 4. Leyd. 1685.
Morton on muscular motion. Phil. trans. 1751. 305.
Smith de actione musculari. 8. Ed. 1767. Smellie Thes. III. 78.
Fordyce on muscular motion. Phil. trans. 1788. 23.
Home on muscular motion. Phil. trans. 1795. 202.
Carlisle on muscular motion. Phil. trans. 1805. 1.
Barclay on muscular motion. 8. Ed. med. journ. VI. 86.
Wollaston's Croonian lecture. Phil. trans. 1810. 1.

† See vital power.

MUSCLES.

Intimate structure.) Muys musculorum artificiosa fabrica. 4. Leyd. 1754. Prochaska de carne musculari. 8. Vienn. 1778. They are minutely fibrous when examined under the microscope. Y.

Chemical analysis.) Fourcroy. Mem. S. R. méd. V. 502. There seems to be some variety in their chemical constitution, fibrin not being essentially necessary to muscular action. Y.

Arrangement and connexion by cellular membrane.) Monro on the effect of oblique fibres. Ed. trans. III. 250.

Contraction.) Roget de perpetua fibrarum muscularium palpitatione. 12. Gott. 1760. Carlisle on the action of the muscles of fishes. Phil. trans. 1806. 1. Its force has not been proved to be greater than the cohesive force of all the fibres properly cooperat-

ing after death; and this inanimate force may perhaps be safely assumed as its maximum. Its immediate nature is probably "neither mechanical nor chemical, but of the same order as the expansion of bodies by heat." Syllab. med. lect.

Irritability.) Haller sur les parties irritables, par Tissot. 8. Laus. 1755. Haen difficultates. 8. Vienn. 1761. Haller ad difficultates apologia. 8. Laus. 1762. Haen vindiciae contra Hallerum. 8. Vienn. 1762. On the opposite excitability of flexors and extensors, Ritters beyträge. Jen. 1805; Ed. med. journ. III. 228. Seems to be wholly incredible. The term irritability seems to be "merely an expression of the proximity of the governing power," or of the nervous channel which is the medium between the cause and effect, to the muscular fibres. Syllabus. med. lect.

† See animal electricity.

Volition.) Ganglions. Johnstone on the nerves.

BONES.

Porterfield on the strength of bones. Ed. med. ess. I. 112. Monro on the intervertebral cartilages. Ed. med. ess. V. 224; liquid at the centre in whales. Home. Phil. trans. 1809. 177. Liquid in the squalus maximus.

PARTICULAR ASSOCIATIONS OF MOTION.

Pugh on muscular motion. 4. Lond. 1794.

C. Bell on the anatomy of expression in painting. 4. Lond. 1806.

† Borellus.

Walking.) Nat. Phil. I. Pl. 9. II. 164.

Swimming.) Robertson on the specific gravity of men. Phil. trans. 1757. 30. Wilkinson. Phil. trans. 1765. 95; a man weighed 4 pounds in river water: hence probably 1 in sea water: but in the author's calculation there is an error.

Voice.) Nat. Phil. I. 400. II. 275. Wallis de sonorum forma-

tione. 12. 1740. Amman de loquela. 8. Amst. 1700. "* *" Haller. Parsons on the windpipes of birds. Phil. trans. 1766. 204. Camper on the organs of speech of the oran outang. Phil. trans. 1779. 139. Louis on the physiology and pathology of the tongue. M. Ac. chir. V. 486. Haighton's experiments on the eighth pair of nerves. M. Med. soc. Lond. III. 422.

CIRCULATION.

HARVEIUS de motu cordis et sanguinis. 4. Frankf. 1628. "* *" Haller.

HARVEIUS de circulatione sanguinis. 4. Leyd. 1639. "* *" Hall.

Walaei epistolae de chylo et sanguinis motu. 8. Leyd. 1641. "* *" Hall.

Entius de circuitione sanguinis. 8. Lond. 1685.

Hales's vegetable statics and haemastatics. 3 v. 8. Lond. 1738.

Whytt's physiological essays. 8. Ed. 1755.

Haller sur le mouvement du sang. 12. Laus. 1756. Engl. 8. Lond. 1757.

Prochaska de viribus cordis et motu sanguinis. 8. Vienn. 1778.

Spallanzani on the circulation, by Hall. 8. Lond. 1801.

Young on the motion of the blood. Phil. trans. 1808. 164. 1809. 1. See also Ed. med. journ. VI. 386. It is not improbable that the viscidity of the blood may be a little greater than is here supposed, and the increase of resistance in the smallest vessels somewhat less considerable, so as to give a tension in the arteries of a middle size not quite so great as is calculated. Mr. Cooper has however seen aneurysms of the radial and anterior tibial arteries continued by anastomosis, after the arteries had been tied above the swellings. Medicoch. tr. I, 233.

† Thebesius.

HEART AND BLOOD VESSELS.

Thebesius de circulo sanguinis in corde. 8. Leyd. 1716.
Abernethy on the foramina Thebesii. Phil. trans. 1798. 103.

ACTION OF THE HEART.

Jurin. Phil. trans. Jurin Lettre à Buffon. " Par." 1749.
Spallanzani. Med. com. Ed. I. 287.
Brodie. Phil. trans. 1811. 36.

RESISTANCES.

Wintringham on the exility of the vessels. 8. Lond. 1743.

ELASTICITY OF THE VESSELS.

MUSCULAR POWERS OF THE VESSELS.

Verschuir de arteriarum et venarum vi irritabili. 4. Leyd. 1766.
Dennison de vasorum irritabilitate. Ed. 1775. Smell. Thes. III. 394.
(Whytt, Berzelius.)

PECULIARITIES OF CIRCULATION.

Monro on a monster. Ed. trans. III. 215. No heart.
Clarke on a mola. Phil. trans. 1793. 154. Carlisle on the arteries of slow moving animals. Phil. trans. 1800. 98. 1804. 17. Brodie on a foetus without a heart. Phil. trans. 1809. 161. G. W. Young on a foetus in the abdomen of a boy.

Medicoch. trans. I. 234. The monster had no heart: the branches of its great vessel " met with numerous arterial branches of the containing child;" but their communication was not demonstrated.

BLOOD.

Martine on the analysis of the blood. Ed. med. ess. II. 67. Unimportant.

Schwenke haematologia. 8. Hag. 1743.

Fontana sopra i globetti rossi. 8.

Hewson on the red particles. Phil. trans. 1773. 308. Med. comm. Ed. III. 87. Allows that a dog lives perfectly well without a spleen. Falconar on the red particles. 8. Lond. 1777.

Stevens, Med. comm. Ed. VI. 231; deduces the colour of the blood from the principle of inflammability, not from iron.

Hey on the blood. 8. Lond. Med. comm. Ed. VI. 376. Objects to Hewson, but reasons too loosely.

* *J. Hunter* on the blood, inflammation, and gunshot wounds. 4. Lond. 1794.

Harles de physiologia sanguinis. 8. Erlang. 1794.

Blumenbach de vi vitali sanguini neganda. 4. Gott. 1795.

Wells on the colour of blood. Phil. trans. 1797. 416.

Birkbeck de sanguine. 8. Ed. 1797.

Brande on albumen. Phil. trans. 1809. 373.

Bostock on the gelatine of the blood. Medicoch. trans. I. 47; on the serum. II. 161.

Brande on the blood. Phil. trans. 1812. Finds little or no iron in the blood.

(Berzelius.)

RESPIRATION.

Galen on respiration. Compares the lungs to the wick of a lamp.

Martine on the motion of the thorax. Ed. med. ess. I. 156. Unimportant.

Whytt on respiration in sleeping and waking. Ed. ess. phys. and lit. I. 436.

J. Hunter on receptacles of air in birds. Phil. trans. 1774. 205.

Darwin. Phil. trans. 1774. 344. Found that venous blood, when exposed, swells in an exhausted receiver to 10 times its bulk, but not when tied in its vein. Probably a slight pressure is sufficient to confine the rarefied air extracted from it.

Priestley. Phil. trans. 1776. 226.

Vicq d'Azyr. Soc. R. med. I. 340.

Lavoisier. Acad. Par. 1777. Dunc. med. com. X. 97.

Goodwyn on the connexion of life with respiration. 8. Lond. 1788. Dunc. med. comm. XIV. 83.

Priestley. Phil. trans. 1790. 106.

Menzies on respiration. 8. 1796.

Davy's researches.

Coleman on natural and suspended respiration. 8. 1802.

Spallanzani sur la respiration, par Sénébier. 8. Gen. 1803. Dunc. ann. 1803. 99. 3 v. Gen. 1807. Ed. med. journ. V. 102.

Bostock on respiration. 8. Liverp. 1804. Ed. med. journ. I.

Ellis on germination. Bostock on Ellis's theory. Ed. med. journ. IV. 159. Ellis's reply. 320.

* Allen and Pepys on the changes produced by respiration. Phil. trans. 1808. 249. 1809. 404.

MOTIONS OF THE CHEST.

Pulsation of the brain. Sighing. Coughing. Sneezing. In sneezing the soft palate seems to be the valve, which, like the glottis in coughing, is suddenly opened, and allows the air to rush on with a greater velocity than it could have acquired without such an obstruction. Laughing. Crying. Hiccup. Drawing air into the oesophagus. Snuffing. Sucking.

CHANGES OF THE BLOOD.

Venous blood. (Chyle.) Arterial blood.

ANIMAL HEAT.

Depends jointly on circulation and nervous energy, but probably little on respiration.

Lindesay de calore. 8. Ed. 1732. Smellie Thes. I. 83.

Martinius de similibus animalibus. 8. Lond. 1740. *Abstract*, Ed. med. ess. III. 133. From friction.

Stevens on animal heat. Ed. med. ess. V. ii. 806. Good.

Braun on the heat of animals. N. Comm. Petr. XIII. Med. comm. Ed. I. 59.

* *Blagden's* experiments in a heated room. Phil. trans. 1775. 111. 484.

* *J. Hunter*. Phil. trans. 1775. 446. 1778. 7.

Dobson's experiments in a heated room. Phil. trans. 1775. 463.

Duncan. Med. comm. Ed. VI. 98.

Crawford on the power of producing cold. Phil. trans. 1781. 479.

Rigby on animal heat. 8. Lond. 1785.

Crawford on animal heat. 8. Lond. 1788.

J. Pearson. Lond. med. journ. VII. 169.

Seguin. Fourcroy méd. éclairc. I. Dunc. med. comm. XVIII. 148.

* BRODIE. Phil. trans. 1811. 36.

SECRETION.

Gordon on the opuntia and indigo colouring the juices. Phil. trans. 1757. 296.

Hendy de secretione glandulari. 8. Ed. Med. comm. Ed. III. 63.

Kreyssig de secretionibus. 4. Leipz. 1794-5.
Plenck's hygrology, by Hooper. 8. Lond. 1797.
Johnson's animal chemistry. 3 v. 8. Lond. 1803.
Bostock on animal fluids. Ed. med. journ. I. 257. II. 37.
Home's hints. Phil. trans. 1809. 385.
* Berzelius on animal chemistry. Swed. Professor Berzelius has found the lactic acid in urine, sweat, and other animal fluids.

SECRETED FLUIDS.

Aqueous.) Perspiration. Sanctorii medicina statica. 12. Ven. 1614. "***" Haller. Cum Dodartio et Keilio, a Noguez. 2 v. 12. 1723. A Lorry. 12. Par. 1770. Gorter de perspiratione. 4. Leyd. 1736. Hamilton de perspiratione. 8. Ed. 1771; Smellie Thes. III. 231. Cruikshank. 8. 1795. Sweat. Pulmonary exhalation. Currie's Reports.

Urinary.) Hallé. M. Soc. R. méd. III. 469.

Milky.) Ferris on milk. 8. 1782. Young. Gesner. Volenius. Werner. Bergius.

Albuminous.) Aqueous humours. Saliva. Pancreatic fluid. Liquor of the pericardium, and of the abdomen. Liquor of the amnion. Sinovia.

Mucous.) Tears. Fourcroy and Vauquelin, Dunc. med. comm. XVII. 138. Follicular fluids. Seminal fluids. (Animal poisons).

Unctuous.) Bile. Grieve de bile. 8. Ed. 1731; Smellie Thes. I. 43. Ramsay. 8. Ed. 1757; Smellie Thes. II. 453. Cadet on bile. Ac. Par. 1767-9; Med. comm. Ed. I. 63. 403. Maclurg on the bile. 8. Lond. 1772; Med. comm. Ed. I. 150. Cerumen. Haygarth, Med. obs. inq. IV. 198.

Sebaceous.) Fat. Lorry. M. Soc. R. méd. III. 97.

SECRETORY ORGANS.

Exhalant vessels.) Kaau perspiratio illustrata. 8. Leyd. 1738. Pratolongi halituum theoria. Römer Diss. med. Ital. 8. Nur. 1797.

Tubular glands.) Kidney. There is some reason to think that the blood flows more rapidly through the capillary vessels of the kidney, than through those of any other part of the body.

Y. Testis.

Conglomerated glands ; Evidently composed of acini.)

Follicles.) Simple cavities, opening internally.

Pores.) Opening externally ; sebaceous or ceruminous.

Parenchymatous glands. Dense and without obvious distinction of minute parts. Abernethy on an uncommon formation of the liver. Phil. trans. 1793. 59.

INTIMATE NATURE OF THE PROCESS OF SECRETION.

Braconnot on vegetable substances. Ann. Chim.

Syll. med. lect. "As far as chemical effects are produced, secretion probably regulated by electrical influences."

Home. Phil. trans. 1809. Refers to the syllabus and to a paper of Dr. Wollaston.

Brande on albumen. Phil. trans. 1809.

"We may imagine that at the subdivision of a minute artery, a nervous filament pierces it on one side, and affords a pole positively electrical, and another opposite filament a negative pole: then the particles of oxygen and nitrogen contained in the blood, being most attracted by the positive point, tend towards the branch which is nearest to it, while those of the hydrogen and carbon take the opposite channel: and that both these portions may again be subdivided, if it be required, and the fluid thus analysed may be recombined into new forms, by the reunion of a certain number of each of the kinds of minute ramifications. In some cases the apparatus may be somewhat more simple than this, in others perhaps much more complicated: but we cannot expect to trace the processes of nature through every particular step: we only inquire into the general

direction of the path that she follows, as much in order to avoid being led away by false opinions, as for the sake of any direct advantage that can be gained from our partial views of the true state of the operations." Medical lectures. MS.

DIGESTION.

* Stevens de alimentorum concoctione. 8. Ed. 1777. Smell. Thes. III. 471. Med com. Ed. V. 146. See Misc. works.

Spallanzani sur la digestion. 8. Gen. 1783. See. Misc. works.

Fordyce on digestion. 8. Lond. 1791. Dunc. med. comm. XVII. 107. " Paradoxical, but improving." Rothe.

Smith on the digestive power of the body. Dunc. med. comm. XX. 354.

Deglutition.) Hunger. Thirst. Great thirst without disease, Med. facts. II. 73; two pailfuls daily. Bonet. sep. III. iii. Obs. 5..7. Mastication. Fox on the teeth. 4. Lond. 1803. Ed. med. journ. III. 193. See anatomy.

Stomach.) Home. Phil. trans. 1807.

Progress of digestion.) * Réaumur Ac. Par. J. Hunter on the digestion of the dead stomach. Phil. trans. 1772. 447. Baillie engr. 63. A. Burns. Ed. med. journ. VI. 129. Rutty on the dispensatories. 8. Lond. 1776; gives a list of articles absorbed without digestion. Stevens. Gosse. Spallanzani.

Comparative digestion.) Peyeri merycologia. 4. Bale, 1685. Barrington, Watson, and Hunter on the Gillaroo trout. Phil. trans. 1774. 116, 121, 210. André on the teeth of cartilaginous fishes. Phil. trans. 1784. 274. Home on the teeth of graminivorous quadrupeds. Phil. trans. 1799. 237; of the wild boar, 1801. 319; on the camel's stomach, 1806. 357; on the whale's, 1807. 93; on stomachs, 1807. 139; on gizzards, 1810. 184. The stomachs, described by Mr. Home, may be referred to about 12 kinds, 6 wholly without cuticle, for example those of the Human subject, the Hare, the Beaver, the Elephant, the Hawk, and the Cod; 6 partially covered with cuticle, as that

of the Horse, the Hog, the Kangaroo, the Whale, the Bullock, and the Turkey.

Food.) See Pharmacology.

Chemical analogy, more or less remote.) Solution, Precipitation, Crystallization, Coagulation, Fermentations: Panary, Vinous, Acetous, Putrefactive.

Intimate nature of digestion.) Saliva. Gastric fluid. Dunc. med. comm. X. 305.

ABSORPTION.

Akenside, Phil. trans. 1757. 322.

Hewson on the lymphatics in animals. Phil. trans. 1768. 192. 217. 1769. 204. 295.

Intestines.) See Splanchnology, Absorbents. Meckel de finibus venarum ac vasorum lymphaticorum. 8. Berl. 1771. Macartney on the small intestines of birds. Phil. trans. 1811. 257. Lieberkühn. Haas. Hedwig jun.

Bile and pancreatic fluid.) See Secretions.

Chyme.)

Actions of the absorbents.) See Progress of digestion. Wright on the nonabsorption of steel. Phil. trans. 1758. 594. Cooper on tying the thoracic duct. Med. records. 86. There is some doubt whether the absorbents possess a peristaltic motion: the lacrymal duct, which has sometimes been considered as analogous to them, seems to remain nearly passive, while the tears are attracted by its capillary powers, and carried over by the preponderance of the longer column, or forced through it by the eyelids.

Intimate nature of absorption.) "No power so capable of performing this selection as electricity." Syllab. med. lect.

Spleen.) Home. Phil. trans. 1808. 45. 133. 1811. 163.

Omentum.)

Venous absorption?) Home. Phil. trans. 1811. 163.

Cutaneous absorption.) Haas, See anatomy. Currie's reports. Kellie, Ed. med. journ. I. 170. Stock on Rousseau's experiments, Ed. med. journ. II. 10.

NUTRITION.

In general.) Wade de nutritione. 8. Ed. 1778. Smellie Thes. IV. 63. Blumenbach und Born über die nutritionskraft, von Wolf. 4. Petersb. 1789.

Supply of new particles.) Bone; Combe on a spear head in an elephant's tooth. Phil. trans. 1801. 165. Muscle. Membrane or integument.

Removal of the old.) J. Hunter.

Regulation of growth.)

GENERATION

Literature.) See Kühn, p. 296.

Harveius de generatione animalium. 4. Lond. 1651. "* * *" Haller.

Aldes (Slade) contra Harveium. 12. Amst. 1667. A single correction.

Harmer on the fecundity of fishes. Phil. trans. 1767. 280.

Haller sur la génération. 2 v. 8. Par. 1774.

Debraw on the sex of bees. Phil. trans. 1777. 15.

J. Hunter on the free martin. Phil. trans. 1779. 279.

Spallanzani's Essays. Patrin's doubts. Germ. 8. Gott. 1788.

Blumenbach über den bildungstrieb. 8. Gott. 1791. Engl. by Crichton. 8. Lond. 1792.

Luce über die degeneration. 8. Gott. 1794.

Home on the generation of the kangaroo. Phil. trans. 1795. 221.

Home on a hermaphrodite dog. Phil. trans. 1799. 157.

Knight on the influence of males and females. Phil. trans. 1809. 392.

Functions of the male.)

Female.) Freind Emmenologia. 8. Lond. 1720. J. Hunter on an extraordinary pheasant. Phil. trans. 1780. 527; on the extirpation of an ovarium. Phil. trans. 1787. 233. S. Walker on the constitution of women. 8. Lond. 1803. Moreau Histoire naturelle de la femme. 2 v. 8. Par. 1803; Ed. med. journ. IV. 470. Pears on a defect of the ovaria. Phil. trans. 1805. 225.

Conception.) Simson on the placenta and the uterus. Ed. med. ess. IV. 93. Merriman de conceptu. 8. Ed. 1753; Smellie Thes. II. 51. Wrisberg de structura ovi humani. 4. Gott. 1783. Garthshore on numerous births. Phil. trans. 1787. 344. Five females, weighing $2\frac{1}{4}$ pounds, 2 alive, at 5 months; Appendix. 4. Lond. Cleghorn on an ovarium with teeth. Ir. trans. I. 1787. 73. A birth of 4. Dunc. med. comm. XIV. 408. Monro on a monster. Ed. trans. III. 215. Clarke on a mola. Phil. trans. 1793. 154. Haighton and Cruikshank on impregnation. Phil. trans. 1797. 159. 197. Clarke on a tumour found in the placenta. Phil. trans. 1798. 361. Burns on the ovum. Ed. med. journ. II. 1. Brodie on a monster. Phil. trans. 1809. 161. G. W. Young on a foetus in a boy. Medicoch. tr. I. 234.

Gestation.) Albini icones ossium foetus. 4. Leyd. 1737. "**" Haller. Albini tabulae uteri gravidi. f. Leyd. 1749. "**" Haller. D. and A. Monro. Ed. ess. phys. and lit. I. 403. 426. Alanson on fractures in pregnancy. Med. obs. inq. 410. *Hunter's anatomy of the gravid uterus. Lond. Schenk vis animi mulieris. 4. Leipz. 1786. Sömmering tabulae embryonum. f. Frankf. 1798. Burns on the gravid uterus. 8. Glasg. 1799.

Foetal nutrition.) Nichols Compendium anatomicum. 4. Lond. 1733. Gibson. Ed. med. ess. I. 171. *MONRO on foetal nutrition, and on the egg. Ed. med. ess. II. 121, 203, 232. III. 261. Fleming. Phil. trans. 1755. 254. Vogel de foetus nutritione. 4. Gott. 1761. Evans de foetus nutrimento. 8. Ed. 1778; Smellie Thes. IV. 1. Carlisle on a monstrous lamb. Phil. trans. 1801.

139. Home on the aeration of the foetal blood. Phil. trans. 1810. 205.

Parturition.) Threipland de partu. 8. Ed. 1742; Smellie Thes. I. 255. Arnoldi de partu 324 dierum. 8. Leipz. 1775. Bland on parturition and probability of life. Phil. trans. 1781. 355. Thouret on the compression of the foetal head, as saving pain to the child. M. Soc. R. med. III. 416. V. 514. On the enlargement of the pelvis. M. Ac. chir. IV. H. 63.

Changes at birth.) Portal on the earlier effect of respiration on the right lung. Ac. Par. 1769; Med. comm. Ed. I. 409. Wrisberg de testiculorum descensu. 4. Gott. 1779. Danz zergliederungskunde des neugebohrnen kindes. 8. Frankf. 1792-3. Haxby on retention of the testicles till the fourth year. Dunc. ann. 1799. 434.

Incubation and germination.)

GROWTH.

Monro's osteology. Accurate account.
Duhamel on tinging bones in strata. Ed. med. ess. V. ii. 931.
Haller sur la formation des os. 12. Laus. 1758.
Home on the growth of bones, from Hunter. Tr. Soc. med. chir. kn. II. 277.

Infancy.)

Dentition.) See osteology. Corse on the dentition of elephants. Phil. trans. 1799. 205. On dentition. Ed. med. journ. III. 62.

Childhood.)

Puberty.) White and Wall on premature puberty. Medicoch. tr. I. 276. II. 115.

Manhood.)

Old age.) Rush Med. inq. II. Dunc. med. comm. XX. 61.

Death.) Winslow et Bruhier sur l'incertitude des signes de la mort. 2 v. 12. Par. 1742. Birch's bills of mortality. 1657. . 1758. Lond. 1759. Remarks on the bills of mortality. Med. obs. inq. IV. 214. Wigglesworth on longevity. Am. Ac. Lond. med. journ. VII. 316. Fischer vom hohen alter, von Weinhard. 8. Leipz. 1777. Clarke on the mortality of males. Phil. trans. 1786. 349. Black on the mortality of different ages. 8. Lond. 1788. Schmelzer de probabilitate vitae. 8. Gott. 1788. Hufeland über die ungewissheit des todes. 8. Weim. 1791. Titius. Mezger. * Himly mortis historia. 4. Gott. 1794. Anschel Thanatologie. 8. Gott. 1795; on the different modes of death. Atzel. Creve von metallreize. 8. Leipz. 1796. Kausch Erfahrungen. Easton on longevity. 8. Salisb. 1799. Bichat. * Brodie on death by poisons. Phil. trans. 1811. 178.

Decay.) Huxham and Tripe on a body preserved. Phil. trans. 1751. 253; Collignon. 1772. 465. Thouret on a change after death. Rapport sur les exhumations; Med. facts. I. 186. Crawford on gases extricated. Phil. trans. 1790. 391. Sneyd on a bird converted into a fatty matter. Phil, trans. 1792. 197. Gibbes on the conversion of animal substances. Phil. trans. 1794. 169. 1796. 239. J. Pearson on mummies of the ibis. Phil. trans. 1805. 264. Macartney on luminous animals? Phil. trans. 1810. 258.

PHYSIOLOGY OF DISEASE.

PATHOGONY,

Or general pathology.

* *Gaubii* institutiones pathologiae, ab Ackermann. 8. Nuremb. 1787. Germ. by Gruner. 8. Berl. 1791; with literary and other additions.

Caldanii institutiones pathologicae. 8. Pad. 1772.
Daniel systema aegritudinum. 2 v. 8. Leipz. 1781-2.
Testa de vitalibus periodis. 2 v. 8. Lond. 1787.
Gönner Einleitung in die pathologie. 8. Berl. 1788.
Juncker conspectus pathologiae, laudatis auctoribus. 2 v. 8. Hall. 1789-90. "Uncommonly original and valuable." Rothe.
Metzger Grundsätze der krankheitslehre. Konigsb. 1792.
* Hufelands ideen über pathogenie. 8. Jen. 1795.
Sprengel Handbuch der pathologie. 3 v. 8. Leipz. 1795-7.
Röschlaub über pathogenie. 8. Frankf. 1798.
Brandis pathologie. 8. Jen. 1799.
* Himly Lehrbuch der practischen heilkunde. Vol. 1. 8. Gott. 1807. Ingenious and useful, but too fond of metaphysical and mathematical language. Denies the existence of the Brunonian sthenic or hypersthenic diseases.
Pearson's surgery, Preface. Remarks on medical theory.

† Darwin, Brown.

Native varieties of mankind.) Parsons on a white negro. Phil. trans. 1765. 45. Clarke on tall men. Phil. trans. 1767. 75. Carteret on the Patagonians. Phil. trans. 1770. 20. J. Hunter de hominum varietatibus. 8. Ed. 1775; Smellie Thes. III. 431; Med. comm. Ed. III. 367. Camper on the difference of features. Dutch. 4. Utr. 1791. Fr. 4. Par. 1791. Fourcr. Méd. écl. 1791. ii. B. 33. Blumenbach de generis humani varietate nativa. 8. Gott. 1795. Ludwig Grundriss der naturgeschichte der menschenspecies. 8. Leipz. 1796. White on the regular gradation in man. 4. 1799. Dolomieu on mineralogy. Germ. 8. Hamb. 1802. Strength of different nations, from Péron. Ed. med. journ. VI. 180; in favour of civilisation. Jarrold on the form and colour of man. 4. Lond. 1808. Ed. med. journ. V. 98.

† See Physiognomy.

Temperament.) Galen on plethóra; Rabbi Moyses; Forest. XXVIII. n. 4.; Horst. I. 265; Gregory consp. Metzler von der schwarzgallichten konstitution. 8. Ulm. 1788. Fischer de tem-

peramentis. 4. Gott. 1791. Trotter on the nervous temperament. 8. Newc. 1807. Ed. med. journ. III. 473.

Symptomatology.) Allen's synopsis, Index of symptoms. Gruneri semiotice. 8. Hall. 1775. * Gruners zeichenlehre. 8. Jen. 1794. Weber. Schlegel thesaurus semiotices pathologicae. 2 v. 8. Stend. 1787-92. Büttner et Weber critices semiologiae rudimenta. 8. Rost. 1791. On passing conscripts; Code de la conscription. Ed. med. journ. VI. 138. Sensations.) Thirst; Bonet. Sep. III. iii. Obs. 1..7. Menteith de dolore. 8. Ed. 1726; Smellie Thes. I. 1. Crawford on sympathy. Ed. med. ess. V. ii. 480. Böttcher et Weber de sopore. 8. Rost. 1794. Motions.) Anderson on the brain. Ed. trans. II. 17. Haighton on vomiting. M. Med. soc. Lond. II. 250; requires the cooperation of the stomach and abdominal muscles. Härtel und Nudow uber die zeichendeutung des auges. 8. Königsb. 1791. I have observed the falling of the left eyelid in a fever not very severe. Y. Pulse.) Bellinus. Bordeu sur le pouls. 2 v. 12. Par. 1768; very absurd. Heberden. Med. tr. Lond. II. 18. Sprengel Beyträge zur geschichte des pulses. 8. Berl. 1787. Spens. Dunc. med. comm. XVII. 458; 10 in a minute, with syncope. Falconer on the pulse. 12. Lond. 1796; merely tables for appreciating its comparative frequency. A pulsation of the veins? Himly Lehrb. pract. heilk. §. 458. Rumball. Blood.) Hewson. Phil. trans. 1770. 368, 384. 398. Respiration.) Avenbrugger de percussione thoracis. 8. Vienn. 1763. Abernethy's essays. Secretions.) Bellinus de urinis et pulsibus. 4. Leyd. 1730. Quesnay on the faults of the humours. M. Ac. chir. I. 1. Fourcroy on the alterations of animal fluids. M. Soc. R. méd. V. 488. Ideler de crisi, ab Hebenstreit. 8. Thorn, 1794.

(Alpinus, Delius, Pezold, Vater, Klein.)

Aetiology of disease.) Fienus de viribus imaginationis. 12. Leyd. 1635; fabulous. Schaw de morbis ex animi passionibus. 8. Ed. 1735; Smellie Thes. I. 127. Priestley and Price on the effluvia of marshes. Phil. trans. 1774. 90. 96. Owen de conta-

gione. 8. Ed. 1783; Smellie Thes. IV. 358. Weber de causis et signis morborum. 8. Heidelb. 1786-7. Lucas on febrile contagion. Lond. med. journ. X. 260. Rougemont on hereditary diseases. Germ. by Wegeler. 8. Frankf. 1794. Blizard on epidemical effects. Med. facts. II. 105. Adams on morbid poisons. 4. Lond. 1807. Ed. med. journ. III. 333. Mitchill on perspirable fluids. Dunc. ann. 1799. 340. Haygarth on the imagination. 8. Bath. 1800. Dunc. ann. 1800. 133. Hosack on contagion. Ed. med. journ. V. 427.

Diseased Action.) Manget on measles retarding smallpox. Med. comm. Ed. I. 317; many cases of smallpox and measles together. Rainey. Med. comm. Ed. III. 443. Lorry on diseases of the fat. M. Soc. R. méd. III. 97. Ferris de sanguinis putredine. 8. Ed. 1784; Smellie Thes. IV. 493. Wrisberg on absorption in disease. Comm. Soc. Gott. IX. Dunc. med. comm. XIV. 172. Foureroy. Supposed retrograde motions of the absorbents; Darwin on pus; Case by Percival. Lond. med. journ. IV. 58. Baillie on the obliteration of vessels. Trans. Soc. med. chir. kn. I. 125. Baillie's objections to Darwin. Trans. Soc. med. chir. kn. II. 70. Russel on the coexistence of smallpox and measles. Trans. Soc. med. chir. kn. II. 90. Margueron on the fluid of blisters. Ann. Chim. XIV; Dunc. med. comm. XVIII. 154; resembles serum. Mossman on typhus succeeded by measles. Dunc. Ann. 1797. 298. Clutterbuck on some opinions of Hunter. 8. Lond. 1799. Adams on the laws of epidemics. 8. Lond. 1809. Ed. med. journ. VI. 231. On the conversion of diseases, after Ferriar. Ed. med. journ. IV. 328. Marcet on dropsical fluids. Medicoch. tr. II. 340; all contain nearly as much saline matter as serum, but less animal matter; that of hydrocephalus scarcely any; of hydrothorax somewhat more; of ascites and hydrocele still more.

Spontaneous cure.) Mezler über die vortheile des fiebers in langwierigen krankheiten. 8. Ulm. 1790. *Young* de corporis humani viribus conservatricibus, 8. Gott. 1796; with references.

* *Jones* on the process of nature in suppressing haemorrhages. 8. Lond. 1805. Ed. med. journ. II. 224. Inflammation.) Gehagan de inflammatione. 8. Ed. 1790; distension. Wedekind Theorie der entzündungen. 8. Leipz. 1791. Pearson's princ. surg. 1. Hunter on the blood. Vacca Berlinghieri. Ed. med. journ. II. 79. Wilson. Ed. med. journ. IV. 290. Suppuration.) Salmuth de diagnosi puris. 4. Gott. 1783. Brugman de pu-ogenia. Leyd. 1787. C. Darwin on matter, and on the absorbents. 8. Litchfield, 1789; Dunc. med. comm. V. 329. VII. 150. * Home on pus. 4. Lond. 1788; Dunc. med. comm. XIII. 177. Grasmeyer vom eiter. 8. Gott. 1790; objects to the distinctions laid down by Cullen, Darwin, Brugman, Home, Salmuth, and others; and employs the oleum tartari per deliquium. * *Pearson.* Phil. trans. 1810. 294. See Essay on blood and pus. Regeneration.) Jamieson. Ed. med. ess. V. 434; a well proportioned glans penis reproduced, after being completely amputated. Camper on callus. Ed. ess. phys. lit. III. 537. M. Ac. chir. V. 128. Troja on the regeneration of bone. M. Soc. R. méd. I. 355. Arneman über die regeneration. 8. Gott. 1787. Fontana sur les poisons. Cruikshank and Haighton on the reproduction of nerves. Phil. trans. 1795. 177, 190.

GENERAL THERAPEUTICS.

Drummond on the improvement of medicine. Ed. med. ess. I. 258. For simplicity.

* HOME principia medicinae. 8. Ed. 1762.

Pratolongus de medica experientia. Roemer diss. med. Ital. 8. Nur. 1747.

Hebenstreit palaeologia therapiae, a Gruner. 8. Hall. 1778.

Ploucquet fundamenta therapiae catholicae. 8. Tub. 1785.

Juncker Versuch einer allgemeiner heilkunde. 2 v. 8. Halle, 1788-91.

Hecker therapia generalis. 8. Berl. 1789.

Müllers med. annal. i. ii. Baldingers journ. II. v.

Ackermanni institutiones therapiae generalis. 2 v. 8. Nur. 1794-5.

Tode Allgemeine heilkunde. 8. Copenh. 1797...

(Boerhaave, Haen, Bayer, Whiters, Anderson.)

General principles and modes of treatment.) Expectation.) Ged. Harvei ars curandi morbos expectatione. Stahl ars sanandi cum expectatione. 8. Par. 1730. Voullonne sur la médecine agissante et expectante. 8. Avign. 1776. Palliation.) Monro on successful indulgence of bad habits. Ed. med. ess. V. ii. 491. Promotion of symptoms.) Counteraction of symptoms.) Exhaustion of morbid power by incompatible actions.)

Operations of medicines.) † See Pharmacology. Pacinus de humoris ante purgationem incrassatione. 8. Ven. 1553; seems to be remembered in Germany. Armstrong on penetrating topic medicines. Ed. med. ess. II. 36. Balguy. Ed. med. ess. V. 82; Speculative. A. Monro on the operation of medicines by the nerves or the circulation. Ed. ess. phys. and lit. III. 292; generally both ways. Duncan's elements of therapeutics. 2 v. 8. Percival. Manch. Mem. Lond. med. journ. XI. 287. Brera sopra le frizioni con saliva. 8. Pav. 1797; Dunc. ann. 1798. 190. Scheele on transfusion of the blood and injection of remedies into the veins, Copenh. 1801. Himly Lehrb. pract. heilk. ii. c. 6.

NOSOLOGY AND PRACTICE.

GENERAL AND MISCELLANEOUS WORKS.

* *Hippocrates*, Celsus, * *Aretaeus*, * Galen, Oribasius, Aëtius, *Caelius Aurelianus*. See single authors.

Fernelii medicina. f. Hanau. 1610. A diligent sober practitioner of the old school.

Forestus. "A man of great experience, and singular good fortune." Rothe.

Lommii observationes. 8. Amst. 1720. A compendium of nosology.

C. Pisonis observationes, praef. Boerhaave. 4. Leyd. 1733.

N. Piso de morbis, praef. Boerhaave. 4. Leyd. 1736.

Mercurialis.

Plateri observationes, 8. Bale. 1680. Praxis medica. 3 v. 4. Bale, 1736. "Makes an imperfect attempt to class diseases according to their symptoms." Cullen.

Ballonius.

Alpinus de praesagienda vita et morte. 4. Leyd. 1733. "Supplies method to the facts recorded by Hippocrates." Boerhaave.

Riolani methodus medendi. Sennertus. Riverius.

Borelli et Cattierii historiae. 8. Par. 1656. Concise and interesting.

Bartholini cista medica. 8. Copenh. 1661. Epistolae. 8. Hag. 1740. Inconceivably credulous.

* Schenkii observationes. f. Frankf. 1609.

Solenandri consilia. f. Hanau. 1609. Shows experience and observation.

Severinus de efficaci medicina. f. Frankf. 1646.

Boneti polyalthes, 3 v. f. Gen. 1690. A bulky commentary on Johnstoni syntagma nosocomices.

* Willis pharmaceutice rationalis. "Somewhat obscured by chemical pathology." Smyth.

Sydenham. Morton.

Tulpii observationes. 8. Amst. 1672.

Bierlingii adversaria. 4. Jen. 1679.

Lister de morbis chronicis. 4. Genev. 1696.

Lancisi de subitaneis mortibus. 4. Ven. 1713. "***" Haller.

Stahl theoria medica. 4. Hall. 1708. Contains above 1400 pages. His histories are considered as accurate.

* Hofmann medicina rationalis systematica. HOFMANN's practice, by Lewis and Duncan. 2 v. 8. Lond. 1783. Lond. med. journ. V. 157.

* *Baglivi* de praxi medica.

Boerhaave aphorismi de cognoscendis et curandis morbis. 8. Leyd. 1737. "To be read ten times and more." Allen.

Radcliffe's prescriptions, Germ. Leipz. 1720.

Allen synopsis medicinae. Ed. 5. Amst. 1730. A good compilation.

Simson de re medica. 8. Ed. 1726.

Cheyne's natural method of curing diseases.

Dekkers exercitationes practicae. 4. Nap. 1726. Contains a great variety of cases distinctly related.

Stalpart van der Wiel observationes. 8. Leyd. 1727.

Marchettis observationum sylloge. 8. Lond. 1729.

Shaw's practice of physic. 2 v. 8. Lond. 1728.

Hofmanni medicina consultatoria. 12 v. 4. Hall. 1721-39.

Dover's ancient physician's legacy. 8. Lond. 1733.

* *Juncker* conspectus medicinae.

Van Swieten commentarii in Boerhaavii aphorismos. 5 v. 4. Leyd. 1742-72. Index. Hildb. 1775. "The work is known and valued, though the state of physic is much altered since its publication." Rothe. Abridged by Schomberg. 4 v. 8. Lond. 1762. By Hossack. 5 v. 8. 1773.

Lamettrie Observations de médecine pratique. 12. Par. 1743.

Boerhaave consultationes. 12. Lond. 1744. 8. Gott. 1772.

Brookes's practice of physic. 2 v. 8. Lond. 1751.

Mead monita et praecepta. 8. Lond. 1751. A Wintringham. 2 v. 8. Lond. 1773.

Wintringham on endemic and epidemic diseases. 8. Lond. 1752.

Halleri disputationes.

* *Haen* ratio medendi. 18 v. 8. Vienn. 1757-79. Schosulan epitome operum Haenii. 8. Vienn. 1778. Some extracts; Med. comm. Ed. I. 25, 33; Lond. med. journ. II. 390.

Marryat therapeutice. 4. Lond. 1758. Eng. 8. Lond. 1792. Rashly empirical, and sometimes dangerous, but often original, and interesting to a judicious practitioner.

Heisters wahrnehmungen. 2 v. 4. Rost. 1759-70. Heisteri compendium medicinae practicae. 8. Amst. 1762. Heister's cases. 4. 1755.

Lentin observationes. 8. Leipz. 1764, Zell. 1770.

Vogel definitiones generum morborum. 4. Gott. 1764.

Lieutaud synopsis medicae praxeos. 2 v. 4. Amst. 1765.

Platneri ars medendi. Leipz. 1765-73.

Sarcone on the diseases of Naples. 2 v. 8. Napl. 1765. Germ. 3 v. 8. Zur. 1770-2. Fr. Lyons. 1804...Much praised by Beddoes.

Hautesierk Recueil d'observations. 4. Par. 1766. From official reports.

Observationes clinicae. Wars. 1767-8. "The distinctions somewhat too subtle." Cullen.

Störck anni medici. 6 v. 8. Vienn. 1768-81. "Original." Rothe.

* *Sauvages* nosologia methodica. 2 v. 4. Amst. 1768. A Danjel. 5 v. 8. Leipz. 1790-8. Little improved.

H. Smith's system of physic. 4. Lond. 1769.

Nicolai pathologie. 9 v. Halle, 1769-84.

Baker opuscula. 8. Lond. 1771.

Kleinii interpres clinicus. 8. Frankf. 1771.

Brisbane's cases. 8. Lond. 1772.

Macbride's introduction to physic. 4. Lond. 1772.

Linnaei genera morborum. 8. Hamb. 1773. Amoen. ac.

Ja. Sims on epidemic disorders. 8. Lond. 1774. Med. comm. Ed. II. 57.

Gooch's observations. 8. Lond. Med. comm. Ed. II. 365.

Lentins beobachtungen. 8. Gott. 1774.

Traite de médicine, extrait de Bordeu. 8. Par. Med. comm. Ed. III. 137.

Lentin memorabilia de Clausdaliensibus. 4. Gott. 1779. Lond. med. journ. II. 289.

Grant on chronic diseases. 8. Lond. 1776. "The Sydenham of our age, deep, acute, and cool." Rothe. The Germans in general are great admirers of Grant.

* CULLEN's first lines of the practice of physic. 4 v. 8. Ed. 1777. An extremely elegant and valuable introduction, rather encumbered than injured by some hypothetical speculations. By Reid. 2 v. 8. Lond. With some useful extracts from later works.

Lieutaud Précis de médecine. Par. 1777. M. Soc. R. méd. I. H. 94.

Ruef consultationes. 8. Augsb. 1777.

Stoll ratio medendi. 7 v. 8. Vienn. 1777-90. Struve Auszug aus Stoll. 2 v. 8. Bresl. 1794.

Pezold de prognosi in acutis. 8. Leipz. 1778.

Störck praecepta. 2 v. 8. Vienn. 1778.

* Home's clinical experiments. 8. Ed. 1780. Lond. med. journ. I. 1.

Tissot observations. 2 v. 12. Laus. 1780.

Tissots handbuch, von Held. 3 v. 8. Leipz. 1785.

Duncan's cases. 8. Ed. 1781. Med. comm. Ed. VI. 300.

Engel specimen medicum, Werlhofii selecta quaedam. 8. Berl. 1781.

Sandifort exercitationes academicae. Dunc. med. comm. XI. 246.

Marcards medicinische versuche. 8. Leipz. Dunc. med. comm. VII. 86. 196.

Webster medicinae praxeos systema ex disputationibus. 3 v. 8. Ed. 1781.

Raymond on epidemic diseases. M. Soc. R. méd. IV. 36.

Saunders's elements of physic.

Aitken's elements of physic and surgery. 8. Lond. 1782.

* BURSERII institutiones medicinae practicae. 4 v. 8. Ven. 1782-5. Leipz. 1787-90. Engl. by Brown. 5 v. 8. Ed.

1800... "Less hypothetical than Cullen." Rothe. A useful compilation, with some original matter, and much literary information.

Van Swieten constitutiones epidemicae, a Stoll. 2 v. 8. Vienn. 1782.

Sagar systema morborum symptomaticum. 2 v. 8. Vienn. 1783.

Vater de praesagienda vita et morte, a Tissot. 8. Pav. 1783.

Campers kleinere schriften, von Herbell. 3 v. 8. Leipz. 1784-90.

London practice of physic. 8. Lond. 1785.

* *Cullen* synopsis nosologiae. 2 v. 8. Ed. 1785, 1792. A Frank. 8. Pav. 1787. "Nec quicquam fere praestiterit quod operae pretium sit." Ploucquet. Contains the systems of Sauvages, Linné, Vogel, Sagar, and Macbride.

Quarin observationes practicae. 8. Vienn. 1786. Dunc. Med. comm. XII. 159.

Eyerel observationes. 8. Vienn. 1786. A pupil of Stoll.

Stoll aphorismi. 8. Vienn. 1787.

Stoll praelectiones in morbos chronicos, ab Eyerel. 2 v. 8. Vienn. 1788-92.

Lentins beyträge. 8. Leipz. 1789. 2 v. 8. 1797.

* *Vogels* handbuch der practischen arzneywissenschaft. 8. Stend. 1789... A work of established character. Lat. by Keup. 8. Stend. 1790...

Thilenius Bemerkungen. 8. Frankf. 1789.

Schlegel thesaurus pathologicotherapeuticus. 8. Leipz. 1789-93.

Bang praxis medica. 8. Copenh. 1789. Selecta diarii. 2 v. 8. 1789.

Rush's general observations. Manch. M. II. Lond. med. journ. VII. 77.

Elliot's medical pocket book. 12. Lond. 1791.

Ploucquet delineatio systematis nosologici. 4 v. 8. Tub. 1791-3. Umriss. 8. Tub. 1797. The denominations here employed, without definitions, are not to be found in the author's own inestimable work on medical literature; so that any further criticism would be superfluous. This work may, however,

be of use as a collection of synonyms to the species of Sauvages and Sagar.

Gilibert's observations. Lyons, 1791. Germ. 8. Leipz. 1792.

Sallaba historia naturalis morborum. 8. Vienn. 1791.

Franck epitome. Pavia, 1792...

Lafontaine chirurgisch medicinische abhandlungen. 8. Bresl. 1792.

Rahn handbuch der practischen arzneywissenschaft. 8. Zur. 1792.

Anleitung kranke zu examiniren. 12. Marb. 1792. Chiefly from Stoll.

Reil memorabilia clinica. 8. Halle. Dunc. med. comm. XIX. 7; Ann. 1796. 159.

Ferriar's essays.

Pinel nosographie philosophique. 2 v. 8. Par. 1801.

Gotthards leitfaden. 8. Erl. 1793. On examining patients.

Arneman synopsis nosologiae. 8. Gott. 1793. Names of diseases and titles of books.

Scheidii observationes. 8. Utr. 1793.

A. G. Richter Medicinische und chirurgische bemerkungen. 8. Gott. 1793. Engl. by Spens. 8. Ed. 1794. Dunc. med. comm. XIX. 197.

Benkö ephemerides meteorologicomedicae, 1780-93. 5 v. 8. Vienn. 1794.

Temple's practice of physic. 8. Lond. 1798. Germ. 8. Leipz. 1794.

Arzneykundige beobachtungen, von Keup. 8. Stend. 1794.

Wichmann Ideen zur diagnostik. 2 v. 8. Hannov. 1794-7. "A work above all praise." Rothe.

Loder Chirurgisch medicinische beobachtungen. 8. Weim. 1794. "Necessary to every medical library." R.

Nisbet's clinical guide. 5 v. 8. Ed. 1801. Germ. Zittau, 1795.

Theden Bemerkungen und erfahrungen. 3 v. 8. Berl. 1795.

Hopfengärtner Theorie der epidemischen krankheiten. 8. Frankf. 1795.

Vogels krankenexamen. 8. Stend. 1796.

Mursinna Medicinisch chirurgische beobachtungen. 8. Berl. 1796.

Fischer über London. 8. Gott. 1796. Dunc. ann. 1796. 62. "No book could appear at a more appropriate time; shame on the physicians who praise and translate every thing that is English, without distinction." Rothe. In short, Fischer is much shocked to find that the English actually cure their patients by means of bark, without sal ammoniac.

Scheidemantel Beyträge. 2 v. 8. Leipz. 1796-7. Contents, Rothe. 484.

Cullen's clinical lectures. 8. Lond. 1797. Surreptitious.

Lindemann's handbuch, nach Brendel. 8. Berl. 1797.

Jo. Frank ratio instituti clinici. 8. Vienn. 1797. Germ. by Schäfer. 8. Vienn. 1797.

Selle medicina clinica. Ed. 7. 8. Berl. 1797.

* CURRIE'S medical reports. 8. Liv. 1798. Ed. 3. 1804. Dunc. ann. 1798. 1. Ed. med. journ. I. 67. On cold water, opium, alcohol, and inanition.

Kausch Erfahrungen, in briefen an ärtze, nebst deren antwort. 8. Leipz. 1798. "Highly valuable." Rothe.

Thoman annales instituti Wirceburgensis. Wurtzb. 1799.

Portal sur plusieurs maladies. 2 v. 8. Par. 1800.

Geoffroy Manuel de médecine. 2 v. Par. 1800.

Willan's reports on the diseases in London. 12. Lond. 1801. Principally employs the nosology of Sauvages.

Arneman Handbuch der practischen medicin. 8. Gott. 1800. . .

* *Thomas's* modern practice of physic. 2 v. 8. Lond. 1801.

* HEBERDEN commentarii de morbis. 8. Lond. 1802.

Hufeland System der practischen heilkunde. 8. Jen. 1802.

Bateman's quarterly reports. Ed. med. journ.

Edinburgh practice of physic, surgery, and midwifery. 5 v. 8. Lond. 1803. Ed. med. journ. II. 82. "The first edition was reprinted from the Encyclopaedia Britannica, Art. Medicine, Surgery, and Midwifery, in 1 volume. In this edition, detailed cases and long extracts from diffuse writers are interpolated.

The whole is beneath criticism." It may however be of some use to a judicious practitioner in the country.

Odier Manuel de médicine pratique. Gen. 1803. Ed. med. journ. II. 446.

Crichton's synoptical table of diseases. Lond. 1804. No definitions.

* *Hecker* Kunst die krankheiten zu heilen. 8. Erf. 1804...

* *Clarke's* modern practice of physic. 8. Lond. 1805. Ed. med. journ. II. 81.

Clarke's reports from the hospital near Nottingham. Ed. med. journ. III. 309. IV. 1, 265, 422. V. 188, 257. VI. 1, 261.

Bardsley's medical reports. 8. Lond. 1807. Ed. med. journ. IV. 93.

Himly lehrbuch der practischen heilkunde.

Frank acta instituti clinici Wilnensis. 8. Hag. 1808. Ed. med. journ. VI. 346.

Hooper's physician's vademecum. 8. Lond. 1809. A useful collection of memorandums.

(" Medicus, Grainger, Glass, Grimm, Monteaux, Unzer, Baldinger, Kaempf, Lettsom, Bosch, Thilenius, Fritze, Schäffer, Isenflamm, Marcard, Kloeckhof, C. L. Hoffmann, Thompson, Burggrave, Strack, Wendt, Rosenstein, Piquer, Eller, Gardiner, Vachier, Lyson, Senac, Riegler, Wagler, Lorry, Girtanner, Elsner, Bacher, Böttger, Chicoyneau, Schilling, Poupart, Fothergill, Andry, Michell, Collin, Haeberl, Campbell, Senft, Weikard, Scherf, Mellin, Birnstiel, Bond, Lepecq de la Cloture, Taube." Vogel.)

SURGERY.

Wiseman's chirurgical treatises. f. Lond. 1676.

Barbette opera, Mangeti. 4. Gen. 1683.

Juncker chirurgia. 4. Hall. 1731.

Lamotte Traité de chirurgie. 4 v. 12. Par. 1732. Cases, with reflections.

Haller disp. chir.

* *Heisteri* institutiones chirurgicae. 2 v. 4. Amst. 1739.

Gooch's cases. 1758. Chirurgical works. 3 v. 8. 1792.

Portal Précis de la chirurgie. Par. 1760.

Richter observationes chirurgicae. 3 fasc. 8. Gott. 1760-80.

Ledran. 8. Par. 1765.

Goulard oeuvres de chirurgie. 2 v. 12. 1766.

Morand. Par. 1768. Germ. 8. Leipz. 1776.

Bromfeild's chirurgical observations. 2 v. 8. Lond. 1773. Med. comm. Ed. I. 345.

Plenck Sammlung zur wundarzneykunst. Med. comm. Ed. II. 261.

Schmucker Chirurgische wahrnehmungen. 8. Berl. 1774-89. Med. comm. Ed. IV. 424. Lond. med. journ. I. 231. II. 10.

Dease's introduction to surgery. 1776, 1780.

Alix observata chirurgica. 8. Altenb. Med. comm. Ed. IV. 420, and again VI. 295.

Callisen systema chirurgiae. 2 v. 8. Copenh. 1777, 1798.. 1800.

Aitken conspectus rei chirurgicae. 8. 1778.

Acrels chirurgische händelser. 2 v. 8. Stockh. 1778. Lond. med. journ. III. 1.

* Pharmacopoeia chirurgica. 12. Lond.

Wilmer's cases in surgery. Dunc. med. comm. VII. 18.

* B. Bell's surgery, 6 v. 8. Ed. 1784, 1801. "A work of decided merit, which should be in the library of every physician." Rothe. Dawplucker's remarks. 8. 1799.

Pott's works, by Earle. 3 v. 8. Lond. 1781.

Kirkland on medical surgery. 8. Lond. Lond. med. journ. V. 384.

Warner's cases. Lond. 1784.

* *Richter* Anfangsgrunde der wundarzneykunst. 5 v. 8. Gott. 1787-98. "No other nation can boast of a work like this, which every physician and surgeon ought to possess." Rothe.

* *Pearson's* principles of surgery. 8. Lond. 1788. 1808.

Pallettae adversaria. 4. Mil. 1789.

Bernstein Handbuch für wundärzte und geburtshelfer. 4 v. 8. Leipz. 1790-2. 1799. "Contains almost every thing that has been written." Rothe.

Hecker therapia generalis chirurgica. 8. Erf. 1791.

Mezger Handbuch der chirurgie. 8. Jen. 1791. Königsb. 1798.

Danz semiotik für wundärzte. 8. Leipz. 1793.

* *Latta's* surgery. 3 v. 8. Ed. 1794-6.

Loders journal für die chirurgie. 8. Jen. 1797...

Sabatier Lehrbuch für practische wundärzte. Berl. 1797...

Plenck compendium institutionum chirurgicarum. 8. Vienn. 1797.

Desault Oeuvres chirurgicales. 8. Par. 1798.

Arneman System der chirurgie. 8. Gott. 1798, 1800.

* *J. Bell's* surgery. 2 v. 4. Ed. 1801... Dunc. ann. 1801. 1.

White's practical surgery. 8. 1804.

* *Abernethy's* surgical observations. 2 v. 8. Lond. 1804-6.

Sue Clinique externe. Par. 1804.

Desault Clinique externe, par Cassius. 2 v. 8. Par. Ed. med. journ. IV. 209.

Ware's chirurgical observations. 2 v. 8. Lond. 1805.

* HEY'S cases in surgery. 8.

* S. COOPER'S first lines of the practice of surgery. 8. Lond. 1809.

* S. Cooper's dictionary of surgery. 8. Lond. 1809.

Hooper's surgeon's vademecum. 8. Lond. 1809.

Theden, Kohlhaas, Mursinna, Platner by Krause, Lauth, Hunczovsky, Hunters.

MORBID APPEARANCES.

Bartholini historiae anatomicae. 8. Copenh. 1654...

Kerckringii spicilegium anatomicum. 4. Amst. 1670. Credulous.

* Boneti sepulcretum anatomicum. 3 v. f. Gen. 1700. "Egregie, si quis alius, meritus est." Morgagni.

* *Morgagni* de sedibus et causis morborum. 2 v. f. Ven. 1761. "* * *" Haller. "A stupendous work." Baillie. Tissoti, 3 v. 4. Winterth. 1779. By Alexander. 8. 1768. By Hamilton, vol. 1. 8. Ed. 1795; reduced into Macbride's order; Dunc. ann. 1795. 143.

* *Lieutaud* historia anatomicomedica, a Portal. 2 v. 4. Par. 1767. "Almost preferable to Morgagni, never omitting the history." Rothe.

* Halleri opuscula pathologica. 8. Laus. 1768.

Sandifort observationes anatomicopathologicae. 4 v. 4. Leyd. 1777-80.

Bonn thesaurus ossium morbosorum. 4. Amst. 1783. f. 1785.

Ludwigii primae lineae anatomiae pathologicae. 8. Leipz. 1785. With ample references.

Doeveren observationes pathologicoanatomicae. 4. Leyd. 1789.

* BAILLIE's morbid anatomy. 8. Lond. 1793, 1807. Germ. by Sömmering, with additions. 8. Berl. 1794. "No physician should be without this work." Rothe.

Sandifort museum anatomicum. f. Leyd. 1793.

Walters anatomisches museum. 2 v. 4. Berl. 1796.

Conradi Handbuch der pathologischen anatomie. 8. Hannov. 1796. "Supersedes Ludwig." Rothe.

Hecker Magazin für die pathologische anatomie. 8. Alt. 1796. Enumerates 161 authors.

* Baillie's series of engravings. 4. Lond. 1803.

* Portal Cours d'anatomie médicale. 5 v. 8. Par. 1805. Ed. med. journ. III. 82.

Voigtel Handbuch der pathologischen anatomie, von Meckel. 3 v. 8. Halle, 1806. Ed. med. journ. V. 245; "The German is tediously minute, exact, and prolix: the Frenchman," Portal, "is luminous, copious, and verbose: the Englishman," Baillie, "is simple, short, perspicuous, and careful; not a word is said more than is necessary, and *that* word is always directed to the point."

(Manget, Cheston, Baader, Schinz.)

LOCAL AFFECTIONS.

Bones.) Petit Maladies des os. 2 v. 12. Par. 1723. Böttcher Krankheiten der knochen, knorpel, und sehnen. 3 v. 8. Königsb. 1787-92. Boyer on the diseases of the bones, by Richerand and Farrell. 2 v. 8. 1807.

Nerves.) Tissot on the nerves and their diseases. See Paraneurismi.

Absorbents.) Sömmering de morbis absorbentium. 8. Frankf. 1795. Compiled from 313 works.

Head.) Bellinus de urinis. Wepferi observationes de affectibus capitis. 4. Schafh. 1727.

Eye.) Galen on the eyes. Hofmann Opp. Suppl. I. 2. Demours. Ed. med. ess. V. ii. Trnka de morbis oculorum internis. Vienn. 1771. Janin sur l'oeil. Lyons. 1772. Jung von augenkrankheiten. 8. Marb. 1791. Kortum Augenkrankheiten. Lemg. 1791. Beer Beobachtungen über verschiedene augenkrankheiten welche aus allgemeinen krankheiten des körpers entspringen. 8. Vienn. 1791. " Very important." Rothe. Beer Lehre der augenkrankheiten. 2 v. 8. Vienn. 1792. * *Scarpa* malattie degli occhi. f. Pav. 1801. Fr. by Leveillé. 2 v. 8. Par. 1802. Ed. med. journ. I. 430. By Briggs. 8. Lond. 1806. Himly ophthalmologische beobachtungen. 8. Brem. 1801...* *Wardrop* on the morbid anatomy of the eye. 8. Ed. 1810. Ed. med. journ. IV. 354. *Saunders* on diseases of the eye, by Farre. 8. Lond. 1811. (Maitre Jan. Taylor. Plenck. Chandler. Desmonceaux. Ware. Rowley.)

Teeth.) Hunter. Fox on the diseases of the teeth. 4. Lond. 1806. Ed. med. journ. III. 193.

Chest.) Cheyne's pathology of the membrane of the larynx and bronchia. 8. Ed. 1810.

Abdominal Viscera.) Pemberton on diseases of the viscera. 8. Lond. 1806. Ed. med. journ. III. 68. Alimentary canal.]

Wedekind de morbis primarum viarum. 4. Nur. 1799. *Monro* on the diseases of the alimentary canal. 8. Ed. 1812. Liver.] * *Saunders* on the liver. 8. Lond. 1793. Dunc. med. comm. XIX. 51. Niemeyer de commercio inter animi pathemata, hepar, bilemque. 4. Gott. 1795.

Pelvic viscera.) André Maladies de l'uréthre. Par. 1756. Rees on diseases of the uterus. 8. Lond. 1803. C. Bell on the diseases of the urethra. 8. Lond. 1809.

RELATING TO PARTICULAR AGES AND SEXES.

Children.) Harris de morbis acutis infantum. 4. Gen. 1696; et Ketelaer de aphthis. 8. Amst. 1736. Jameson de infantum morbis. 8. Ed. 1731. Smellie Thes. I. 19. Astruc on diseases of children. 8. 1741. Conyers de morbis infantum. 8. Lond. 1748. Armstrong on the diseases of infants. 12. Lond. 1767; Germ. by Schäffer. 8. Ratisb. 1792; By Buchan. 8. Lond. 1808. Rosenstein von den kinderkrankheiten. 8. Gott. 1768; von Murray und Loder. 8. Gott. 1798. * UNDERWOOD on the diseases of children. 3 v. 8. Lond. 1805. Logan de morbis infantum. 8. Ed. Webster. med. pr. III. 273. Clarke on some diseases of infancy. Med. facts. VIII. 215. Struve Kinderkrankheiten. 8. Bresl. 1797; Ueber physische erziehung. 8. Hannov. 1798; A disagreeable writer. Heberden morborum puerilium epitome. 8. Lond. 1804. Ed. med. journ. I. 221. Hamilton.

Females.) Mauriceau Traité sur les maladies des femmes grosses. 4. Gen. 1693; Observations sur la grossesse et les maladies des femmes. 4. Amst. 1695; Bears strong marks of correct observation. Leake on the chronic diseases of women. Lond. 1777. Med. comm. Ed. V. 118. Doeveren de mulierum morbis, a Schlegel. 8. Leipz. 1786. Hofmann Wie können frauenzimmer frohe mütter werden. 4 v. 8. Frankf. 1791... Hamilton on female complaints and infantile diseases. 8. Ed. 1809. Ed. med. journ. V. 359.

RELATING TO EMPLOYMENTS.

Princes.) Ramazzini de principum valetudine.

Men of the world.) Tissot sur les maladies des gens du monde. 12. 1770.

Men of letters.) Ackermann über die krankheiten der gelehrten. 8. Nur. 1777. Tissot de la santé des gens de lettres. 12.

Comedians.) Hunnius Arzt für schauspieler. 8. Weim. 1798.

Artisans.) Ramazzini de morbis artificum. Germ. by Ackermann. 2 v. 8. Stend. 1780-3.

Labourers.) Falconer, Papers of the Bath Soc. IV ; and 8. Lond. 1789.

Poor.) Carl medicina pauperum. 8. Bud. 1719.

Army.) * PRINGLE on the diseases of the army. 8. Lond. 1764. Van Swieten. 8. Lond. 1762. Brocklesby on military hospitals and camp diseases. 8. Lond. 1764. *D. Monro* on diseases in the military hospitals. 8. Lond. 1764. Baldinger krankheiten einer armee. 8. Lang. 1765, 1774. Fritzens feldlazareth. 8. Leipz. 1780. Monro on preserving the health of soldiers. 2 v. 8. Lond. 1783. J. HUNTER. M. D. on the diseases of the army in Jamaica. 8. Lond. 1788. Hebenstreits handbuch, nach Hamilton. 3 v. 8. Leipz. 1790. Piderit Annalen. 8. Cassel. 1794. Jäger Beyträge. 3 v. 8. Frankf. 1794-6. Ackermanns handbuch der kriegsarzneykunde. 2 v. 8. Leipz. 1795. "A masterly work." Rothe. Ackermanns handbuch der ausübenden arzneykunde und wundarzneywissenschaft bey armeen. 2 v. 8. Leipz. 1797. Wedekind über das Französische kriegspitalwesen. 8. Leipz. 1797. Wright on the diseases of troops in the West Indies. Dunc. ann. 1797. 346. Lindemann Entwurf soldaten schneller zu heilen. 8. Berl. 1799. Macgrigor on the diseases of the 88th regiment in the E. I. Dunc. ann. 1801. 353. Desgenettes Histoire médicale de l'armée de l'Orient. 8. Par. 1802. Dunc. ann. 1802. 98. Jackson on the medical

department of the army. 8. Lond. 1803. Dunc. ann. 1803. 131.

Seamen.) * LIND on the diseases of seamen. 8. Lond. 1757. Rouppe de morbis navigantium. 8. 1764. Pringle's discourse on preserving the health of seamen. 4. Lond. * *Blane* on the diseases of seamen. 8. Lond. 1785. * *Trotter* medicina nautica. 8. Lond. 1797. Watson on diseases on board the Europa. Med. facts. V. 20. *W. Hunter* on the diseases of Indian seamen. f. Calcutt. 1804. Ed. med. journ. III. 112. Robertson on diseases incident to seamen. 4 v. 1804. Turnbull's naval surgeon. 8. 1806. J. F.'s journal on a cruise. Ed. med. journ. IV. 450. On medicine in the navy. Ed. med. journ. VI. 326.

Prisoners.) J. M. Good on the diseases of prisons. 12. Lond. 1795.

RELATING TO CLIMATES.

See Acology.

Sloane on the diseases of Jamaica. Cleghorn on Minorca. 8. Lond. 1751, 1768. Huxham. * *Hillary* on the air and diseases of Barbadoes. 8. Lond. 1759. * LIND on diseases in hot climates. 8. Lond. 1768. * CLARK on diseases in long voyages. 8. Lond. Med. comm. Ed. II. 1. *Chalmers* on the weather and diseases in South Carolina. 2 v. 8. Lond. 1776. Bisset on the climate of Great Britain. 8. Lond. Rollo on St. Lucia. 12. Lond. 1781. Lond. med. journ. II. 298. *Moseley* on tropical diseases. 8. Lond. 1787. Lorimer on the sick in the E. I. service. Med. facts. VI. 211. N. Fontana on diseases in hot climates. Germ. 4. Stend. 1790. Thomas on the diseases of warm climates. 8. 1790. Wade on disorders in Bengal. 8. Lond. 1793; Dunc. med. comm. XVIII. 200. Shannon on the operation of medicines in hot climates. 8. Lond. 1794. Rodschied über Rio Esequibo. 8. Frankf. 1796. Currie on the climates and diseases of America. 8. Philad. Dunc. med. comm. XX. 41. T. Clark on diseases of the W. and E. Indies. 8. 1801. Campet des maladies graves des pays chauds. 8. Par. 1802. Macgregor on

diseases in Bombay. Ed. med. journ. I. 266. Macgregor's medical sketches. 8. Lond. 1804; Dunc. ann. 1803. 257. Dancer's Jamaica practice of physic. 4. Pinckard's notes on the W. I. 3 v. Lond. 1807. Curtis on the diseases of India. 1807.

EXOTIC MEDICINE.

Alpini medicina Aegyptiorum, ut et Bontii medicina Indorum. 4. Leyd. 1745. Piso. Cleyer. Winterbottom's Sierra Leone.

POPULAR MEDICINE.

Langhens Anweisung. 8. Bern. 1762. Tissot Avis au peuple 2 v. 12. Lyons, 1764; By Kirkpatrick. 8. Lond. 1768. *Buchan's* domestic medicine, by A. Buchan. 8. Lond. 1807; Par Duplanil. 3 v. 8. Par. 1789, Lange Arzt für alle menschen. 8. Lauenb. 1777. Metzger Entwurf einer medicina naturalis. 8. Königsb. 1784. Juncker, Nolde. Herrenschwand. Jahn Handbuch. 8. Jen. 1790. Der tod in töpfen. 8. Hildburgh. 1790. "Worthy of being read day and night." Rothe. Paulitz Anleitung. 8. Frankf. 1791. Unzer Medicinisches handbuch. 8. Leipz. 1794. *Struve* über gesundheitswohl und volksvorurtheile. 2 v. 8. Bresl. 1797-8. Parkinson's villager's friend and physician. 12. Lond. 1804. Companion to the medicine chest. 12. 1804. Domestic pharmacopoeia. 12. 1805. Reece's medical guide. 8. Lond. 1811.

VETERINARY MEDICINE.

Layard on the inoculation of horned cattle. Phil. trans. 1758. 528. Vitets unterricht, von Erxleben und Hennemann. 3 v. 8. Lemg. 1773-86. Remarks on epizootic diseases, by Daubenton,

Berg, and others. M. Soc. R. méd. I. 312. II. 570. 616. III. 326. Layard on the distemper of cattle. Phil. trans. 1780. 536. Jungs lehrbuch der vieharzneykunde. 8. Heidelb. 1785. Camper on a disease of cattle. Lond. med. journ. IV. 386. Lafosse Cours d'hippiatrique. Tufts on the horn distemper in cattle. Amer. Ac. Lond. med. journ. VII. 305. Kausch über rindviehseuche. 8. Grottkau, 1790. *Camper* on diseases common to men and animals; and on the influence of climate, Germ. by Herbell. 8. Ling. 1794. Wollstein. Niederhuber Polizeypflege bey viehseuchen. 8. Salz. 1793. Saint Bel's elements of the veterinary art. 4. Lond. 1797. Bourgelat Elemens de l'art vétérinaire. 2 v. Par. 1798. Blane's outlines of the veterinary art. 2 v. 8. Lond. 1802. Lafosse's veterinarian's pocket manual. 1803. Feron's system of farriery. 4. Lond. 1803. Harrison on the rot in sheep. 8. Lond. 1804. Ed. med. journ. I. 440. * *A. Duncan* on the diseases of sheep in Scotland. Tr. Highl. Soc. Ed. med. journ. VI. 109. Chisholm on the lues bovina. Ed. med. journ. VI. 32. Rosenschild on the pestis bovilla. Ed. med. journ. VI. 147. See also Daniel bibl. der staatsarzn. 190.

(Busch und Daum. Kersting. Henze. Chabret.)

FORENSIC MEDICINE,

Or medical jurisprudence and police.

Starck, praes. Heistero, de medicinae utilitate in jurisprudentia. 4. Helmst. 1730. Hebenstreit anthropologia forensis. 8. Leipz. 1753. Büttner über tödtliche vertetzungen. 4. Königsb. 1768; Ueber kindermord, 1771; Von der tödtlichkeit der wunden. 8. 1776. Frank System einer medicinischen polizey. 5 v. 8. Manh. 1779-88. Plenck elementa medicinae et chirurgiae forensis. 8. Vienn. 1781. Hallers vorlesungen über die gerichtliche arzneywissenschaft. 3 v. 8. Bern. 1782-4. Schlegel collectio opusculorum ad medicinam forensem spectantium. 6 v. 8. Leipz. 1785-91. Husty über die medicinsche polizey. 2 v.

8. Presb. 1786. Hebenstreit Lehrsätze der medicinischen polizeywissenschaft. 8. Leipz. 1791; Contains enough of literature. Loder Anfangsgründe der medicinischen anthropologie und der staatsarzneykunde. 8. Weim. 1793. *Metzger* System der gerichtlichen arzneywissenschaft. 8. Konigsb. 1793, 1798; Lat. by Keup. 8. Stend. 1794. Müller Entwurf der gerichtlichen arzneywissenschaft. 2 v. 8. Frankf. 1796-8. Fodéré Médecine légale. 3 v. 8. Par. 1799; Ed. med. journ. I. 330. Mahon Médecine légale. 3 v. 8. Par. 1802. Ed. med. journ. I. 330. Davis Projet concernant les décès. 8. Verd. 1806. Ed. med. journ. IV. 234.

(Brinckman. Daniel. Hahnemann. Ploucquet. Schmelzer Elvert. Schwabe. Gruner. Uden. Pyl. Formey. Scherf. Elsner. Bucholz. Roose. Schweikhard. Zachias. Amman. Welsch. Bohn. Valentin. Richter. Fabricius. Waitz. Rickmann. Arnold. Liebing. Kannegiesser. Teichmeyer. Börner. Eschenbach. Baumer. Ludwig. Bohn. Sicora. Fort. Fidelis. Alberti. Kölpin. Kamper. Jäger. All these are named by authors who profess to mention none but good and useful works.)

CLASSES OF DISEASES.

Diseases depending on the vital powers.

Of the nervous and muscular system. PARANEURIS'MI. Nervous diseases.

Of the sanguiferous system. PARHAEMA'SIAE. Sanguine.

Of the secretions. PAREC'CRISES. Secretory.

Of the nutritive powers. PARAMOR'PHIAE. Structural.

Mechanical affections. ECTO'PIAE. Displacements.

ORDERS.

Class 1. Paraneurismi. Not subdivided.

2. Parhaemasiae.

Affecting the minute bloodvessels only. *PHLOGIS'MI.* Flushes.

Affecting all kinds of functions. *PYREX'IAE.* Fevers.

3. Pareccrises.

The secretions being diminished. *EPIS'CHESES.* Retentions.

The secretions being increased. *APOCENO'SES.* Effusions.

The secretions being vitiated. *CACOCHYM'IAE.* Cachexies.

4. Paramorphiae.

Single or nearly single changes of structure. *PARAPHY'MATA.* Local changes.

Changes frequently repeated. *EPIPHY'MATA.* Eruptions.

5. Ectopiae. Not subdivided.

SYNOPSIS OF GENERA.

CLASS I.

PARANEURISMI.

NERVOUS DISEASES.

Diseases solely or principally affecting the functions of sensation or motion, as depending on the nervous system.

1. CA'RUS. A preternatural appearance of sleep. Apoplexy.
2. PARAL'YSIS. An insensibility, or incapacity of motion. Palsy.
3. ASTHENI'A. A debility of the nerves or muscles. Weakness.
4. DYSAESTHE'SIA. A defect of sensation, from an obscure cause in the organ. Heb'etude.
5. AUTAL'GIA. Partial pain, without apparent cause. Local pain.
6. ERETHIS'MUS. A morbid sensibility or irritability. Irritation.
7. PAL'MUS. Irregular action of the involuntary muscles. Spasm.
8. PNEU'SIS. Irregular action of the partially voluntary muscles. Anhelation.
9. CLO'NUS. Repeated contraction of a voluntary muscle. Convulsion.
10. ENTO'NIA. A fixed contraction of a voluntary muscle. Rigidity.
11. MA'NIA. An idiopathic depravation of the faculties. Insanity.

† Pyrexiae. Venenatio. lxxv.

CLASS II.

PARHAEMASIAE.

SANGUINE DISEASES.

Diseases principally of the sanguiferous system.

ORDER I. *PHLOGISMI.* FLUSHES.

Affecting only, or primarily, the minute bloodvessels.

12. RU'BOR. Distension of the minute bloodvessels, not painful. Erubescence.
13. INFLAMMA'TIO. Distension of the minute bloodvessels, with pain. Inflammation.
14. PROFU'SIO. Simple effusion of blood. Profusion.

ORDER II. *PYREXIAE.* FEVERS.

Affecting the whole circulation, and the constitution in general; particularly the stomach and the nervous system.

Possibly the nervous system may be the primary seat of fever in general; but the affection of the circulation affords the most convenient nosological criterion of the diseases of this order.

15. CAU'MA. Pulse hard and full throughout. Inflammatory.
16. ERYSIP'ELAS. Pulse frequent; a local inflammation, with burning pain. Erysipelatous.
17. SYN'OCHUS. Pulse hard and full at first, then small and weak. Mixed.
18. TY'PHUS. Pulse small and weak, with prostration of strength, from the beginning. Typhous.
19. AN'ETUS. With regular and well marked paroxysms. Palúdal.
20. DEFLUX'IO. With a mucous or serous discharge: pulse becoming weak. Catarrhal.
21. HEC'TICA. With frequent weak pulse, flushing, and night sweats. Hectic.

CLASS III.

PARECCRISES.

SECRETORY DISEASES.

Diseases principally affecting the functions of secretion or excretion.

ORDER I. *EPISCHESES.* RETENTIONS.

The secretion being diminished or obstructed.

22. OBSTIPA'TIO. Obstruction of the alvine discharge. Constipation.
23. ISCHU'RIA. Retention of urine. Ischury.
24. AMERCORRHOE'A. Retention of the catamenia. Suppression.
25. AGALAX'IA. Retention or suppression of milk. Agalaxy?

ORDER II. *APOCENOSES.* EFFUSIONS.

The secretion being morbidly increased in quantity.

26. EPHIDRO'SIS. An effusion of sweat. Colliquation.
27. EPIPH'ORA. From a conglomerate gland. Overflowing.
28. HYPERURE'SIS. From the kidneys. Flow of water.
29. BLENNORRHOE'A. From the mucous follicles. Mucous effusion.
30. DIARRHOE'A. From the intestines. Looseness.

ORDER III. *CACOCHYMIAE.* CACHEXIES.

The quality of the secretion being vitiated.

31. DYSPEP'SIA. The gastric fluid and the digestion being deranged. Indigestion.

32. POD'AGRA. Indigestion with inflammation of the small joints. Gout.

33. CHOLELITH'IA. Occasional pain near the cardia, with obstruction of bile. Gallstone.

34. LITHI'ASIS. A discharge of gravel, or a stone sensible in the bladder. Stone.

35. DIABE'TES. A discharge of saccharine urine. Diabetes.

36. LEUCORRHOE'A. A pale coloured discharge. Whites.

(CONCRE'TIO. A calculus formed in a mucous secretion.

DYSO'DIA. A fetid smell of the body or breath.

CATACAU'SIS. A general inflammability.

CACOGA'LIA. A vitiated secretion of milk. All of little importance).

CLASS IV.

PARAMORPHIAE.

STRUCTURAL DISEASES.

ORDER I. *PARAPHYMATA.* LOCAL CHANGES.

Principally confined to a single part of the body.

37. PHTHAR'MA. Morbid change of structure only of a living part. Depravation.
38. RHA'GAS. A simple spontaneous solution of continuity. Chop.
39? CURVATU'RA. A change of a form only of a bone. Curvature.
40. CONTRACTU'RA. A permanent contraction of a soft part. Contraction.
41. EMPHRAG'MA. A tumour produced by an obstruction. Stoppage.
42. EMPHYSE'MA. A tumour containing air. Inflation.
43. EXANGE'IA. An enlargement of a bloodvessel. Dilatation.
44. HY'DROPS. A tumour containing a watery fluid. Dropsy.
45. EMMYX'IUM. A tumour containing a mucilaginous substance. Mucous tumour.
46. EMPIME'LIUM. A tumour containing a fatty substance. Fatty tumour.
47. ATHERO'MA. A tumour containing a mealy substance. Pulpy tumour.
48. ECPHY'MA. A solid tumour, not acutely painful. Solid tumour.
49. CARCINO'MA. An uneven tumour, with lancinating pains. Cancer.
50. APOSTE'MA. A collection of pus, in a confined cavity. Abscess.

51. UL'CUS. A suppurating sore. Ulcer.
52. GANGRAE'NA. The death of a part of the body. Gangrene.

ORDER II. *EPIPHYMATA.* ERUPTIONS.

Structural diseases frequently repeated, especially on the surface of the body: the whole system appearing to be affected.

53. LICHENI'ASIS. Red acuminated pimples, not suppurating. Pimples.
54. PRURI'GO. Pimples itching without inflammation. Itchings.
55. LEPIDO'SIS. Scales or crusts. Scales.
56. EXANTHIS'MA. Red patches, not acuminated. Rash.
57. POMPHOLYG'MUS. Serous vesicles. Blains.
58. CYSTIS'MA. Vesicles turning to scabs. Vesicles.
59. PHLY'SIS. Pustules, suppurating. Pustules.
60. PHYMATO'SIS. Tubercles, scarcely suppurating. Tubercles.
61. SYPH'ILIS. Ulcers, nodes, and cutaneous eruptions, in succession. Lues.
62. SCROF'ULA. Swellings of the glands or bones from a general disease. King's evil.
63. SCOR'BUTUS. Livid spots, spongy gums, and general debility. Scurvy.
64. SPILO'SIS. Simple discolorations of the skin. Spots.

CLASS V.

ECTOPIAE.

DISPLACEMENTS.

Mechanical affections, independent of the vital powers.

65. LUXA'TIO. The derangement of a joint. Dislocation.
66. HER'NIA. The passage of a soft part through a neighbouring orifice. Rupture.
67. PROLAP'SUS. The passage of a soft part through its own orifice. Protrusion.
68. INTROSUSCEP'TIO. The engagement of one part of a cavity in another. Introsusception.
69. DISTEN'SIO. A violent tension of a soft part. Strain.
70. CONTU'SIO. A violence affecting the internal structure only. Contusion.
71. FRACTU'RA. The division of a bone by violence. Fracture.
72. LACERA'TIO. The division of an internal soft part by violence. Laceration.
73. VUL'NUS. A division of parts extending to the surface. Wound.
74. OBSTRUC'TIO. The mechanical obstruction of a passage. Obstruction.
75. VENENA'TIO. The presence of a poison in the alimentary canal. Poison.
76. PARASITIS'MUS. The presence of parasitical animals. Vermination.
77. DYSTO'CIA. Morbid pregnancy or childbearing. Obstetrical disease.
78. DYSODONTI'ASIS. Irritation from teething. Difficult dentition.
79. DEFOR'MITAS. Original malformation. Deformity.

GENERA AND SPECIES OF DISEASES.

CLASS I.

PARANEURISMI.

NERVOUS DISEASES.

Willis pathol. cerebr. Hofm. III. 194, 209. Junck. 45, 54, 114. Boerhaave de morbis nervorum. 12. 1761. Boerhaave aph. 1071, 1080. Cheyne on nervous disorders. 8. Lond. 1734. Whytt on nervous disorders. 8. Ed. 1765. Tissot Maladies des nerfs. 6 v. 8. Laus. Lond. med. journ. I. 32. Germ. by Ackermann. 3 v. 8. Leipz. 1790-3. S. Walker on nervous diseases. 8. Lond. 1796.

I. CARUS.

Apoplexy, or Entrancement.

A suspension of the powers of sense and motion, more or less perfect, with an appearance of sleep; the motion of the heart remaining uninterrupted.

(Apoplexia, Carus, Cataphora, Coma, Haemorrhagia cerebri, Catalepsis, Ecstasis, Typhomania, Lethargus.)

1. C. *lethar'gus.* Simple and habitual. Lethargy.
2. C. *hydroceph'alus.* Supervening by slow degrees, with frequent or continued sleepiness, and dilatation of the pupil. Water in the head.
3. C. *apoplex'ia.* Supervening suddenly, with stertorous breathing. Apoplexy.
4. C. *traumat'icus.* Supervening in consequence of an injury of the head. Injured brain.

5 ? C. *venenátus.* Supervening from the effect of some noxious agent.

† Asthenia suffocatio, iii. Entonia catalepsia, x.

† Hysteriae, epilepsiae, pyrexiae, ischuriae, dyspepsiae, podagrae, scorbuti, parasitismi symptoma.

1. *Carus lethargus.* Galen loc. aff. IV. ii; on coma, cl. 3. Cael. Aur. II. ii. c. 3. Willis an. brut. Pathol. c. 3-5. Bellin. morb. cap. 455. Lancis. sub. mort. 100. Wepfer obs. 355. *Morgagni*, ep. 6. de affectibus soporosis. *Brady*, Med. obs. inq. I. 280; daily. *Smith* and others, Med. obs. inq. VI. 180; stupor. Med. comm. Ed. VI. 418? from *Boyer;* 5 days sleep. *Swieten*, 1010. Stoll prael. 348. Baldinger kr. 206. Gallot, Journ. med. XLIV. Cheyne on apoplexy.

(Ballonius, Forestus, Oliver, Ph. tr.)

A. Sleepiness. Cataphora, *Sauvages*, I. 835.

B. With forgetfulness. Lethargus, *Sauvages*, I. 832. Rather a complication with Asthenia.

2. *Carus hydrocephalus.* Apoplexia hydrocephalica, Cull. syn. xlii. 3. Hippocr. on dis. Foes. II. 466. Bartholin. H. anat. I. 28. Mauriceau, II. 487. Tulp. I. 24, 25. Duverney, Ac. Par. 1704. 8. Petit, Ac. Par. 1718. Ruysch obs. n. 52; thes. an. II. Stalpart, II. 14. Wepfer obs. 49... Whytt's works, 725. Ed. med. ess. II. 18. *Mowat*, Ed. med. ess. III. 332; *Paisley*, 333. Lecat on a trocart, Phil. trans. 1751. 267. *Morgagni*, ep. 12, de hydrocephalo et hydrorachitide. *Fothergill*, Med. obs. inq. IV. 40; *Watson*, 78, 321. Armstr. dis. ch. Hydrocephalus interior, *Sauvages*, II. 496; Asthenia ab hydrocephalo, I. 802. Gaudelius, Sandif. thes. II. Stoll rat. med. VII. *D. Monro*, Med. tr. Lond. II. 325. *Percival*, Med. comm. Ed. V. 174; Simmons, 415; blisters; VI. 219; Remmett, 440. Dunc. cas. 180. Quin de hydrocephalo interno. 8. Ed. 1779; Smellie Thes. IV. 135; Webster m. pr. III. 22; Dunc. med. comm. VII. 69; *Mackie*, 282; *Willan*, 322. *Odier*, M. Soc. R. méd. III. 195. Loftie,

med. obs. inq. V. *Acry*, Lond. med. journ. I. 424; Dunc. med. comm. VIII. 332; mercury. *White*, Lond. med. journ. III. 402; blisters. *Eason*, Dunc. med. comm. VIII. 325; mercury. *Wier*, Lond. med. journ. IV. 78, 393. *Campbell*, Dunc. med. comm. IX. 240. *Michaelis*, Med. commun. I. 404; partial paralysis. *Dobson*, Med. obs. inq. VI. 48; *Dr. J. Hunter*, 52; *Haygarth*, 58. Dunc. med. comm. X. 149; *Evans*, 299; leeches and diaphoretics; *Dixon*, 312; brain become membranous; *Perkins*, XI. 298; fatal after salivation. Monro on dropsy. Withering on digitalis. *J. Moseley*, Lond. med. journ. VI. 113; mercury. *Hooper*, M. Med. soc. Lond. I. 165; *Lettsom*, 169. *Warren*, Lond. med. journ. IX. 122; *Ford*, XI. 56. *Gehagan*, Dunc. med. comm. XIII. 353; after pleurisy. Bucholz, Bald. N. M. I. 481. II. 130; Meier, IV. 1. Bald. N. M. VIII. 180. Rosenstein kinderkr. *Jameson*, M. Med. soc. Lond. III. 414. *Percival*, Med. facts. I. 111. *Cribb*, M. Med. soc. Lond. IV. 400. *Haxby*, Dunc. ann. 1799. 434; after an enlargement of a vertebra. *Baillie's* engr. 213. *A. Monro*, Paterson de hydrocephalo; Dunc. ann. 1803. 364. Phrenitis hydrocephalica. Kirby tabl. mat. med. If we retain the term febricula in Cullen's definition, as including the acute stage, this denomination is a very proper one. *Ed.* med. journ. II. 52; diagnosis from worms. *Gapper*, M. Med. soc. Lond. VI. 50; mercury. *Kuhn*, Ed. med. journ. III. 13. *Cheyne* on hydrocephalus acutus. 8. Ed. 1808; Ed. med. journ. IV. 341. *W. Cooke*, Medicoch. tr. II. 17; with disease of the liver, and premature pubescence.

(Faloppius, Forestus, Freind, Ph. tr.)

3. *Carus apoplexia*. Hipp. on the glands; aph. iii. 16. vii. 51; on dis. iii. p. 488. Forestus, X. obs. 69-80. Ballonius, III. 120. Willis de an. br. Path. viii. Horst. II. 71. Gid. Harv. expect. c. 32. Bellini morb. cap. 437. Lancisi de sub. mort. 12. Rom. 1609. Hofmann opp. Suppl. II. 2. Bagliv. pr. med. I. ix. Wepfer de apopl. 8. Leyd. 1734; W. obs. 642. Dover's legacy. Torti ther. sper. Haen rat. med. IV. v. *Morgagni*,

ep. 2, 60, de apoplexia; ep. 5, de apoplexia neque sanguinea, neque serosa; ep. 11, 14, 62, 63, 67. *Ayton Douglas*, Ed. med. ess. V. ii. 598; from a fall. Hillary Barbad. Lentin memor. Heberden, Med. trans. Lond. I. 472. Delamare, Journ. méd. XXXIII. Stoll prael. 340, 346; rat. med. I. III. VII. Monteggia fasciculus pathologicus; Roemer. Ruddiman Stewart de apoplexia, Webster. m. pr. II. 214. Portal, Ac. Par. 1781. *Fothergill*, Med. obs. inq. VI. 68. Dick, Dunc. med. comm. X. 8. Selle N. beitr. II. 34. III. 79. Weikard verm. schr. II. 23. Chandler on apoplexies and palsies. 8. Cant. 1785. *Williams*, Med. facts. V. 96; in a pregnant woman. Bothke über schlagflüsse. 8. Leipz. 1797; a good repertory. *Baillie's* engr. 227; an appearance of membrane filled with serum, in an old case.

(Chandler, Zuliani von Domeier, Kirkland, Le Cat, Ph. tr. Burserius.)

A. With a hard full pulse, and a flushed countenance. Apoplexia sanguinea, Cull. syn. xlii. 1; Apoplexia atrabiliaria, 4; the distinction "in corpore melancholico" is not sufficient to characterize even a variety; Apoplexia mentalis, 7; distinguished only by the cause, which is here extraneous to the disease. Apoplexia sanguinea, Sennert. Duhamel, Ac. Par. 1683. H. Boerhaave, 1945; prael. inst. 401 *Morgagni*, ep. 2, 3, de apoplexia sanguinea; ep. 60. Preysinger. sp. 1. Apoplexia sanguinea, *Sauvages*, I. 845; Carus spontaneus? 838; Cataphora coma? 835.

B. With a feeble pulse, and a pale countenance. Apoplexia serosa, Cull. syn. xlii. 2. A difference of treatment is frequently required according to the distinction of these varieties: but it can seldom be ascertained, during life, whether there is a rupture of a vessel, and a consequent effusion of blood, or an oozing of serum into the ventricles, with a general disease of the coats of the arteries, except that in the latter case the symptoms are commonly more simply

paralytic. Apoplexia pituitosa. Sennert. de apopl. Bonet. sep. obs. 18-52. Le Cat, Phil. trans. Preysinger. sp. 4. *Morgagni*, ep. 4, de apoplexia serosa; 60. Apoplexia pituitosa, *Sauvages*, I. 848; Carus ab hydrocephalo? 844. Lamotte tum. obs. 107; Cataphora hydrocephalica? I. 836. Schneider aff. sop. 54, Bonet. sep. Obs. 7. .13.

4. *Carus traumaticus.* Apoplexia traumatica, Cull. syn. xlii. 5. The cause would not afford a sufficient specific distinction, if the symptoms were not in general essentially different, tending to an inflammatory fever. Forest. X. obs. 73, 79. Wepf. apopl. 321, 331-3. Ed. med. ess, V. 52. Apoplexia traumatica, *Sauvages*, I. 846.

5. *Carus venenatus.* Apoplexia venenata, Cull. syn. xlii. 6. Seems scarcely to differ from C. apoplexia B, unless when it comes under the denomination Venenatio, or Asthenia. The case most directly in point is the Carus ab insolatione, *Sauvages*, I. 842. But on the whole there seems not to be any sufficient reason for making this a distinct species.

II. PARALYSIS.

Palsy.

An incapacity of sense or of motion when the person is awake.

1. P. *hemiplégia.* Affecting one side of the body.
2. P. *paraplégia.* Affecting the lower half of the body on both sides.
3. P. *particuláris.* Affecting less than half of the body.

† Febris, dyspepsiae, abscessus, cariei, plicae, scrofulae, syphilidis, scorbuti, luxationis, venenationis, vulneris symptoma.

PARALYSIS. Galen on swellings xi. Forest. X. obs. 84, 85,

90, 91. Horst. II. 109. Ballon. cons. III. 523. Willis an. brut. Path. ix. *Morgagni*, ep. 11, 62. de paralysi. Monro arm. dis. Death of Richmann. Phil. trans. 1755. 61. *Hart*, Phil. trans. 1756. 558; electricity. *Russel*, Med. obs. inq. I. 296. Brydone, Phil. trans. 1757-8.; *Himsel*, 1759. 179; electricity. *Heustet*, M. Ac. chir. IV. 141. *Fowler*, Med. comm. Ed. VI. 194. Stoll. prael. 369; rat. med. II. 92. Baldinger kr. arm. 256. Home's clin. exp. Haen rat. med. I. 105, 107. II. 219. III. 125, 216, 225. Theden N. bem. II. 67. Wardrobe de paralysi; Webster m. pr. II. 185. Chandler on apopl. *Vaughan*, M. med. soc. Lond. I. 360; cantharides. *Falconer*, M. Med. soc. Lond. II. 201. *Gilby*, Med. facts. II. 102; electricity. *Ross*, Dunc. ann. 1800. 381; electricity. *Baillie's* engr. 219? tumours on the dura mater; 207? tumour, like ivory, within the cranium and orbit. *Odier* on Saussure's case, Ed. med. journ. II, 393. *Vieusseux*, Medicoch. tr. II. 215.

1. *Paralysis hemiplegia.* Paralysis hemiplegica, Cull. syn. xliii. 2. Apoplexia, Hippocr. prorrh. I. 50. Bonet. sep. Schenk. obs. Hemiplegia, *Sauvages*, I. 791. Med. obs. inq. IV. 110. *Yelloly*, Medicoch. tr. I. 181; from a tumour in the brain. *Morrah*, Medicoch. tr. II. 215; a hydatid in the brain; a case attended by Y.

2. *Paralysis paraplegia.* Paralysis paraplegica, Cull. syn. xliii. 3. *Drummond*, Ed. med. ess. I. 327. Paraplexia, *Sauvages*, I. 797. Knox, Med. obs. inq. III. 160. *Hall*, Med. comm. Ed. VI. 71; a vertebra starting by degrees. *Pott* on palsy from curvature. 8. Lond. 1779-82. Lond. med. journ. III. 225. Jebb's cases of paraplegia. 8. Lond. 1782. Kite, Lond. med. journ. III. 405; issue; from a blow.

3. *Paralysis particularis.*

A. Want of sensation.

1. Of the olfactory nerve. Anosmia atonica. Cull. syn. xcviii. 2. *Morgagni*, ep. 9. art. 25. Anosmia, *Sauvages*, I. 750.

2. Of the retina. Gutta serena. Amaurosis, Cull. Syn. xciii; A. compressionis, 1; A. atonica, 2; A. spasmodica, 3; A. venenata, 4. Hippocr. on dis. 461. Vesal. corp. fabr. IV. c. 4. Fernel. cons. xi. Forest, X. n. 89. Horst. opp. II. 443, 447. Ballon. opp. III. 525. Sennert. par. ad l. 5. c. 2. Bartholin, ep. 3. 275; hist. IV. n. 32. Schenk. obs. I. 306. Bonet. sep. I. xviii, obs. 8...29. Tulp. I. c. 31. Ramazzin. morb. art. xiii. Hofm. med. rat. syst. II. 116, 229. Bagliv. opp. 215. Wepfer obs. 867. Raii hist, pl. XIII, xxiii. Stalp. I. obs. 31. II. obs. 14. Ross de amaurosi. 8. Ed. 1754; Smellie Thes. II. 253. Brendel opp. III. 33. St. Yves mal. des yeux, II. 27. Haen rat. med. IV. 262. VI. 255, 264, 271. *Morgagni*, ep. 9. art. 20. ep. 13, de oculorum affectibus; ep. 52; ep. 63, de caecitate. Haller opusc. path. obs. 65; opp. min. III. 366; El. phys. IV. 297. Trécourt, M. Ac. chir.; La Peyronie, I. 212. Zinn ocul. XI. vi. Journ. med. X; Janon, XX. 442; Becherel, XLIII. Lentin Oberh. I. 17, 67, 68. Stark clin. inst. Bromfeild's cases, I. 34. Marat on a disease of the eyes. Stoll prael. I. 384; rat. med. V. 436. VI. 386. Baldinger, N. mag. XI. 78; Grosman, 322; Justi, 446. *Hey*, Med. obs. inq. V. 1, 29; electricity. Ed. med. comm. V. 165. Vogel prael. acad. Webster m. pr. III. 222. Trnka historia amauroseos. 8. Vienn. 1781. Richter, N. comm. Gott. IV. 81-3; chir. bibl. IV. 121, 627. Mursinna beob. I. n. 6. Theden unterr. II. 199. Selle N. beitr. III. 111. Cheston's observations. *Partington*, Lond. med. journ. IX. 389. *Ware*, M. Med. soc. Lond. III. 309; electricity, hydrargyrus vitriolatus. *Blagden*, Med. facts. IV. 126; hydr. vitr. gr. v. pulv. as. comp. xxxv. *Ware* on cataract. *Gerard*, M. Med. soc. Lond. IV. 348; capsic. gr. j,

aq. unc. j, used several times a day, cured in three weeks.

(Briggs, Ph. tr. Vater, Ph. tr.)

3. Of the gustatory nerves. Ageustia atonica, Cull. syn. xcix. 2. Ageustia, *Sauvages*, I. 751.

4. Of the auditory nerves. Dysecoea atonica. Cull, syn. xcvi. 2. Cophosis, *Sauvages*, I. 757. Trnka historia cophoseos. 8. Vienn. 1778. Sandifort obs. anat. path. I.

5. Of the nerves of touch. Anaesthesia, Cull. syn. c. Fernel. Cons. II. Stalpart. II. obs. 43. *Sauvages*, I. 763.

† Dysaesthesia, iv.

B. Want of motion. Paralysis partialis, Cull. syn. xliii. 1. Paralysis, Junck. 115; *Sauvages*, I. 789. Benevuti, Phil. trans. 1768. 189; a large head.

1. From the effects of lead; generally, but not always, with colic. Paralysis venenata, Cull. syn. xliii. 4. Paralysis rachialgica. *Sauvages*. I. 789; Hemiplegia saturnina. Brendel, 797. Kühn über bleykolik. 8. Leipz: 1784; including Tronchin, Strack, Huxham, and Grashuys. *Whitehurst*, Lond. med. journ. V. 77; electricity. See colica.

2. Of the eyelid.

3. Of the muscles of deglutition. Dysphagia, Cull. syn. cxv, sometimes. Dysphagia paralytica, Forest. Hofm. Swiet. *Sauvages*, II. 79. J. Hunter, Tr. soc. med. ch. kn. I. 182.

4. Of the organs of speech. Aphonia, *Sauvages*, I. 779;

Mutitas, 775. *Jones,* Ed. med. journ. V. 281. See asthenia.

5. Of the bladder. Pringle, Ed. med. ess. II. 365.

C. Want of tonic contraction. Enuresis, Cull. syn. cxxi, sometimes. Enuresis paralyticorum, Juncker, *Sauvages,* II. 386. See Hyperuresis, xxviii.

III. ASTHENIA.

Weakness.

A defect of motion, from a debility of the nerves or muscles.

1. A. *trémor.* Producing an obvious trembling.
2. A. *vócis.* A weakness or imperfection of the voice as formed in the larynx.
3. A. *loquélae.* A defect of articulation.
4. A. *deglutitiónis.* A difficulty of swallowing.
5. A. *pectorális.* A difficulty of respiration and motion, supervening suddenly during exercise, with anxiety and pain.
6. A. *syn'cope.* Temporary debility of the heart, causing a cessation of pulsation, and a suspension of the faculties, without total insensibility. Fainting.
7. A. *suffocátio.* Cessation of pulsation and of sensibility. Suffocation.
8. A. *aphrodisiaca.* Impotence.
9. A. *beribéria.* With a sensation of tingling, stiffness of the knees, hoarseness, and often anasarcous swellings.
10. A. *totális.* Universal debility of all the functions.

† Clonus chorea, ix, Dyspepsia anorexia, adipsia. xxxi.

† (Hydrocephali. 1, paralysis, 2, hydrophobiae, 6, vomitus, 7, tussis, 8, cloni, 9, maniae, 11, rheumatismi, 15, dyspepsiae, 31, podagrae, 32, exangeiae, 43, ecphymatis, 48, carcinomatis, 49, scorbuti, 63, vulneris, 73, obstructionis, 74, venenationis, 75, symptoma.)

ASTHENIA. Tissot on nervous disases. II. III. Blacia Ploucq. syst. nos.

1. *Asthenia tremor.* Tremor semper symptomaticus, vel astheniae, vel paralysios, vel convulsionis, Cull. syn. de paral. xliii; but unfortunately Cullen has forgotten to place asthenia among his genera. Fernel. consil. xvi. Forest, X. obs. 99. Bartholin. hist. an. v. n. 58. Tulp. I. xii. Bellin. morb. cap. 562. Wepf. obs. 473. Ed. med. ess. II. xix. IV. xxv. Tremor, *Sauvages*, I. 557. Haen rat. med. III. 202. IV. 241; from mercury. Lettsom on tea.

2. *Asthenia vocis.* Galen. loc. aff. I. vi. IV. vi. Tulp. I. c. 39. 40. Huxham, Phil. trans. 1758. 743; speech recovered after 14 months by dancing. The same happened to a patient of mine, a daughter of the Hon. Col. L. Y. *Morgagni*, ep. 14, de balbutie. Aphonia, *Sauvages*, I. 779. Baldinger, N. mag. X. 41. *Jones*, Ed. med. journ. V. 281; purgatives. See paralysis.

A. Hoarseness. Paraphonia rauca, Cull. syn. cxii. 2. Forest, X. n. 134. XV. 32. Horst. II. 147. Ballon. II. III. Stalpart. I. 27. Finck gallenkr. 236. Starke clin. inst. p. 180.

B. A shrill voice. Paraphonia clangens, Cull. syn. cxii. 3. Paraphonia sibilans, *Sauvages*, I. 788.

† Aphonia gutturalis, Cull. syn. cx. 1. catarrhi; A. trachealis, 2, paraphymatis; atonica, 3, vulneris; Paraphonia comatosa, cxii. 8, apoplexiae symptoma; puberum, 1, a natural occurrence.

3. *Asthenia loquelae.* Thelwal on imperfections of faculties and speech. Lond. 1810; Ed. med. journ. VI. 489.

A. General want of articulation. Forest, X. XIV. Plater obs. I. 136. Schenk, I. 45. Watson, Phil. trans. Stoll, prael. I. 378; rat. med. IV. 435. Selle N. beitr. III. 109. Mutitas spasmodica, *Sauvages*, I. 777; *Smyth* and *Wells*, Med. commun. II. 488, 501; electricity. *Perfect*, M. Med. soc. Lond. IV. 426, electricity. Leveling Ersetzung mehrerer zur sprache nothwendiger werkzeuge. 8. Heid. 1793.

† Mutitas organica, Cull. syn. cxi. 1; atonica, 2, vulneris; surdorum, 3, dysaesthesiae symptoma.

B. A nasal sound. Paraphonia resonans, Cull. syn. cxii. 3; probably always occasioned by some diseased structure. Paraphonia nasalis, *Sauvages*, I. 786.

C. Hesitation. Psellismus haesitans, Cull. syn. cxiii. 1. Psellismus ischnophonia, *Sauvages*, I. 781.

D. A fault of enunciation. Psellismi, Cull. syn. cxiii. *Sauvages*, I. 780.

1. " Vibration of the R." Psellismus ringens, Cull. syn. cxiii. 2.
2. " Making L liquid, or substituting it for R." Psellismus lallans, Cull. syn. cxiii. 3.
3. " Softening the harder letters, and introducing D too often." Psellismus emolliens, Cull. syn. cxiii. 4.
4. Introducing " too many labials." Psellismus balbutiens, Cull. syn. cxiii. 5.
5. " Omission of labials." Psellismus acheilos, Cull. syn. cxiii. 6.
6. Lisping. Thetismus.
7. Making S guttural. Chiasmus.

† Psellismus lagostomatum, Cull. syn. cxiii. 7; Paraphonia palatina, cxii. 4, deformitatis symptoma.

4. *Asthenia deglutitionis.* Dysphagia, Cull. syn. cxv. Hipp. aph. III. n. 26. Prorrhet. I. Galen, loc. aff. IV. iii. Paul. Aeg. III. c. 27. Plater obs. I. 222. . .Tulp. I. 42. Hofmann, I. 130, Dysphagia spasmodica. Stalpart, II. 27. Ferrein, Ac. Par. Montal, Ac. Par. Ed. med. ess. I. xxviii. Odier, Ed. med. ess. III. 207; *Jamieson,* 353; a steatoma found on dissection. *Morgagni.* ep. 28, de laesa deglutitione. Dysphagia, *Sauvages,* II. 78. Gooch's cases. Stoll rat. med. V. 437. Dunc. med. comm. VII. 91. Balding. N. mag. III. 242. VI. 535. VIII. 175. IX. 515. *Sequeira,* Med. obs. inq. VI. 138; mercurial friction. See paralysis particularis.

5. *Asthenia pectoralis.* Probably Angina pectoris, Cull. syn. catal. " morborum omissorum quos omisisse fortassis non oportebat." Respirandi difficultas quae per intervalla deambulantibus incidit,—" hi utplurimum derepente moriuntur," Poterii opp. cent. 3. n. 22; a passage pointed out by Dr. Letherland. MS. *Percival?* Med. comm. Ed. III. 180. *Fothergill,* Med. obs. inq. V. 233, 252; fat and ossification. *Macbride,* Med. comm. Ed. V. 97; Med. obs. inq. VI. 9; antimonials, issues. *Hamilton,* Dunc. med. comm. IX. 307; hereditary. *Macqueen,* Lond. med. journ. V. 162. *Heberden,* Med. trans. Lond. II. 59. Case, III. 1; small specks of ossification; *Wall,* 12; some ossification; *Haygarth,* 37; mediastinum. *Hooper,* M. Med. soc. Lond. I. 238; *E. Johnstone,* 306; *J. Johnstone,* 376; heart putrid, without ossification. *Alexander,* Dunc. med. comm. XV. 373; arsenic. *Perkins,* M. med. soc. Lond. III. 580; white vitriol; *Black,* IV. 261; coronary arteries ossified. *Parry* on angina pectoris. 8. Bath, 1799; Dunc. ann. 1800. 53; calls it syncope cardiaca anginosa, and defines it from a disease of the heart; which however cannot be ascertained during life. *Cappe,* Med. phys. journ. IV. Dunc. ann. 1800, 91;

argenti nitras. *Albers*, Dunc. ann. 1801. 382. *Black*, M. Med. soc. Lond. VI. 41. Hume on angina pectoris. Dubl. 1804.

6. *Asthenia syncope.* Syncope occasionalis, Cull. syn. xliv. 2. Galen loc. aff. V. 6. Vesal. fabr. I. v. Forest. XVII. n. 7, 10, 12. Horst. II. 143. 533. Ballon. cons. I. 9. III. 32. Schenk. II. n. 90, 195, 241, 242, 246. Bonet. sep. II. ix. 10, 14, 15, 32, 42. Ramazzin, epid. 1692. s. 23. Bellin. mort. pect. 631. Lancis. subit. morb. 136. Senac du coeur 540. Bagliv. pr. med. I. ix. Haen rat. med. XII. 32, 42. *Morgagni*, ep. 24, de pulsibus praeter naturam; ep. 25, de lipothymia et syncope; 26, 27, de morte repentina ex vitio vasorum sanguiferorum et ex vitio cordis. *Nicholls*, Phil. trans. 1761. 265; death of Geo. II, from a laceration. *Sauvages*, Lipothymia. 1. 808; Syncope. 809. *Thomson*, Med. obs. inq. IV. 330; effusion into the pericardium. *Doubleday*, Med. obs. inq. V. 144; vena cava ruptured. Hare de syncope. 8. Ed. 1782; Smellie Thes. IV. 279. *Wright*, Med. obs. inq. VI. 1; effusion into the pericardium. Portal, Ac. Par. Lond. med. journ. IX. 156; rupture of the heart. Stoll. rat. med. I. 252. VI. 292. *Lynn*, Med. records. 71; aorta ruptured in labour, after having been ulcerated; the patient survived 14 days. *Chevalier* on asphyxia idiopathica. Medicoch. tr. I. 157; from relaxation of the heart.

† Syncope cardiaca. Cull. xliv. 1, palmi symptoma; or a complication with palmus.

7. *Asthenia suffocatio.* Apoplexia suffocata, Cull. xlii. 9. Oribas. VIII. 57. Forest, XV. n. 25, 26, chir. VI. n. 33. Plater. obs. I. n. 19. 181. Barthol. hist. an. VI. 68. Apoplexia cerebelli, Willis. Brendel opp. III. 283. *Tossack*, Ed. med. ess. V. ii. 605; recovered by simple inflation with the mouth. Hofmann suppl. I. ii. Wepfer obs. 360. Fothergill, Phil. trans. *Nollet*, Phil. trans. 1751. 48; grotta dei cani. Haen rat. med. XV. 44, 161. Cont. I. ii. 54... *Morgagni*, ep. 19, de suffoca-

tione; ep. 64. art. 4. *Frewen*, Phil. trans. 1762. 454; smoke. Asphyxia, *Sauvages*, I. 815. *Cullen* on the recovery of persons drowned, Med. comm. Ed. III. 243. *J. Hunter*, Phil. trans. 1776. 412. *Bucquet*, M. Soc. R. méd. I. 177. *Guthrie*, Phil. trans. 1779. 325; Fontana, 337. Nachtigall, Dunc. med. comm. VIII. 94. Testa degli annegati. 8. Flor. 1780; Lond. med. journ. II. 288. Macdonnell de submersis. 8. Ed. 1784; Smellie Thes. IV. 543. Portal sur les vapeurs méphitiques. *Kite* on the recovery of the apparently dead. 8. Lond. Dunc. med. comm. XIV. 107; *Directions* of the Humane society, 413. *Kite*, M. Med. soc. Lond. III. 215. *Goodwyn's* experimental inquiry. Metzger in Goodwynum. *Coleman* on suspended respiration. 8. Lond. Dunc. med. com. XVI. 168. Balding. N. mag. I. 167. Prévinaire. Germ. by Schreger. 8. Leipz. 1790. Vogel de submersis. 8. Hamb. 1790. *Hubbard*, M. Med. soc. Lond. IV. 423; from lightning, cured after an hour by nettles. Van Marum Rettungsmittel der ertrunkenen, von Hebenstreit. 8. Leipz. 1796. Zarda Rettungsmittel fur todtscheinende. 12. Prag. 1796. Struve Taschenbuch; Kunst scheintodte zu beleben. 8. Hanov. 1797; On suspended animation. 12. 1804. Wiedemann Anweisung zur rettung der ertrunkenen. 8. Brunsw. 1797. Transactions of the Humane society. *Babington*, Medicoch. tr. I. 83; from charcoal; bleeding was injurious.

(Gunther, Baldingers mag. Collenbusch, Lancisi, Barnave, Hensler und Scherf, Johnson, Rüdiger, Toll, Hofmann.)

8. *Asthenia aphrodisiaca.* Anaphrodisia, Cull. syn. cix.; Sterilitas utriusque sexus, cat. morb. omiss. Anaphrodisia, *Sauvages*, I. 770, 771.

A. Agonia. Aëtius, III. iii. 35. IV. iv. 26. Forest. X. 93. XXVI. 16. 19. Plater. obs. I. 252; pr. med. I. ii. 17. Montaigne ess. I. 20. Ballon. I. 120. II. 26. III. 6, 20, 21, 28. Bartholin. hist. anat. III. 71. Schenk. obs. IV. 21, 50. Bonet. sep. III. xxxiv. 5. Stalpart. II. 48; from opium. Albin.

annot. acad. II. 18. Gaub. path. S. 320. Ed. ess. I. 35; Forest. XXVI. 16; Schenk. IV. 41, 44; belonging rather to erethismus. Lapeyronie, M. Ac. chir. I; Petit, 434. *Morgagni*, ep. 44. art. 7, 10; ep. 46, de veneris impedimentis, et sterilitate in utroque sexu. Stoll prael. I. 122. Balding. N. mag. X. 315. Fordyce ven. dis.

1. Anaphrodisia paralytica, Cull. syn. cix; *Sauvages*, I. 770.

2. Dysspermatismus, Cull. syn. cxxv; *Sauvages*, II. 404. The species, urethralis, nodosus, praeputialis, mucosus, hypertonicus, epilepticus, refluus, are more properly classed according to the nature of the obstacle: D. apractodes, Cull. 7, Sauv. 410, belongs properly here.

B. Aphoria. Oribas. syn. IX. 45, 55. Aët. IV. iv. 16, 26. 56, 78. Fernel. cons. L. Forest. XXVIII. n. 57. Plater. I. 259. Horst. II. 535. Bartholin. ep. III. 257; hist. an. II. 31. III. 102. Schenk. obs. IV. 302. 5. Bonet. sep. III. xxxii. add. obs. 2. Mauriceau, I. 538. II. 318, 345, 366, 484. Ruysch obs. 6, 83. *Cockburn*, Ed. med. ess. II. 339; a symptom of varix; III. xix. Ed. ess. phys. and lit. II. xviii. Roonhuysen heylc. II. 3, 121. 4, 129. *Morgagni*, ep. 26. art. 13; ep. 43. art. 14; ep. 45. art. 4; ep. 46; ep. 47. art. 19. 28; ep. 67, de morbis partium genitalium utriusque sexus, et praesertim muliebris; ep. 69. art. 16. Louis, M. Ac. chir. II. 9; Pecquet, 40; Levret, III. n. 26. Journ. méd. XX. 246; Anselin, XXV. 458; Martini, XXXVI. 180; Figuet, XLI. 40; Giroud, XLII; Milleret, XLIX; Herbiniaux, LVIII. 481. Lentin. mem. Bromfeild surg. obs. Fitzpatrick, Dunc. med. comm. IX. 41. Sandifort obs. path.; Richt. chir. bibl. V. Theden. N. bem. II. 265. Wrisberg de uteri resectione. Gott. 1787.

9. *Asthenia beriberia.* Beriberia, Cull. syn. cat. morb. omiss. Bontius med. Ind. I. ii; had the disorder. Tulp. obs. IV. 5. Manget. bibl. pract. Beriberia, *Sauvages,* I. 592. *W. Hunter* dis. of Ind. seam.

10. *Asthenia totalis.*

A. Lassitude. Hippocr. on diet, II. Galen on pres. health, III, IV. Lassitudo, *Sauvages,* II. 39.

B. Fasting. Atrophia famelicorum. Cull. syn. lxx. 2. *Fairfax,* Birch Hist. R. S. II. 386. Ac. Par. 1712, 1713, 1719, 1739. *Steill,* Ed. med. ess. V. ii. 477; 50 years; a motion annually for 16. Phil. trans. 1756. 796; at Bergamoletto, two women fed for 36 days on the milk of a goat. Asthenia abstinentium, *Sauvages,* I. 805. *Millar,* Dunc. med. comm. XIV. 360; 18 days. *Walker,* M. Med. soc. Lond. II. 43; atrophia lactentium. *Willan,* Med. commun. II. 113; 60 days on water with a little orange juice. Mackay's narrative of the shipwreck of the Juno. 8. Lond. 1798; 23 days. Okes's case of cold and fasting. Cambr; Dunc. ann. 1799. 501. *Rankine,* Dunc. ann. 1803. 492; 18 days. *Grainger,* Ed. med. journ. V. 319; at Tetbury.

C. From cold. *Currie,* Phil. trans. 1792. 199. *Kellie,* Ed. med. journ. I. 302.

D. Wasting. Generally a symptom of hectica. Atrophia cachochymica, Cull. syn. lxx. 3, debilium, 4. Galen on marasmus. Fern. cons. xix. Forest, IV. 10. Ballon. cons. I. 2. Sennert. paral. V. 4. Bonet. sep. II. vii. 130. Willis, ph. rat. II. i. 5. Morton phthis. ii. Hofm. Suppl. II. ii. *Morgagni,* ep. 49. art. 19. Raulin obs. 49. Whytt's works. Atrophia. *Sauvages,* II. 460. Stoll prael. II. 111. Justi, Balding. N. mag. XI. 446.

† Atrophia inanitorum, Cull. syn. lxx. 1. is generally a symp-

tom of some other disease, except the Tabes or Atrophia nutricum, Sauv. II. 448, 461. Morton phthis. 14. Ackermann. Bald. N. mag. VI. 389. Walker, M. Med. soc. Lond. II.

† Hydrops cacotrophicus xliv.

IV. DYSAESTHESIA.

Hebetude.

A defect of sensation, from an unknown or obscure disease of the organ, the nerve retaining its sensibility.

Where the intimate nature of the disease is known, it must be classed without regard to its effect on the sense, which then becomes a symptom only.

1. D. *contrectatória.* Defect of touch.
2. D. *gustatória.* Defect of taste.
3. D. *olfactória.* Defect of smell.
4. D. *auditória.* Defect of hearing.
5. D. *visuális.* Defect of sight.
6? D. *inter'na.* Want of memory, or confusion of intellect.

† Astheniae, 3, autalgiae, 5, maniae, 11, aneti, 19, dyspepsiae, 31, deformitatis, 79, symptoma.

1. *Dysaesthesia contrectatoria.* Anaesthesia, Cull. syn. c. Forest. XII. n. 98. Horst. opp. II. 42. Sennert febr. IV. xvi. Stalpart. II. n. 43. Ac. Par. 1710. 81. Duhamel, Ac. Par. 1748. Anaesthesia plethorica, *Sauvages*, I. 763; Stupor, II. 41. See paralysis particularis, A 5. Often connected with formication, or tingling.

2. *Dysaesthesia gustatoria.* Ageustia atonica, Cull. syn. xcix. 2. Horst. opp. II. 123. See paralysis particularis.

† Ageustia organica, Cull. syn. xcix. 1, pyrexiae, dyspepsiae symptoma.

3. *Dysaesthesia olfactoria.* Anosmia atonica, Cull. syn. xcviii. 2. Bartholin. hist. an. IV. n. 91. *Morgagni*, ep. 14, de narium affectibus. Anosmia, *Sauvages*, I. 750. Lentin obs. I. n. 8.

† Anosmia organica, Cull. syn. xcviii. 1, pyrexiae, epischesis, ecphymatis, ulceris, syphilidis, parasitismi, symptoma.

4. *Dysaesthesia auditoria.* Horst. opp. III. n. 40. Ballon, cons. 13. Bartholin. hist. anat. VI. n. 36. Wepfer. obs. 901. Guyot, Ac. Par. 1724. Lechevin, Ac. Par. Prix. IX. Morant, Phil trans. *Wathen*, Phil. trans. 1755. 213; injecting the tube. *Morgagni*, ep. 6. art. 4; ep. 14, de aurium affectibus. Stoll rat. med. II. 327. Mursinna beob. Haygarth, Med. obs. inq. IV. 198; cerumen, properly a cacochymia. *Gordon*, Med. comm. Ed. III. 80; from bathing, cured by salivation. Webster m. pr. III. 225. *Sims*, M. Med. soc. Lond. I. 94; from the tube. *Blizard*, Lond. med. journ. XI. 31; electricity. *Haighton*, M. Med. soc. Lond. III. 1; perhaps a deformitas; *Zencker*, 549; perforating the mastoid process. Arneman über die durch bohrung des processus mastoideus. 8. Gott. 1792. Lentin, comm. Gott.; "highly important" Rothe. Kritter de auditu difficili. 8. Gott. 1793. *Roult*, M. Med. Soc. Lond. IV. 398. *A. Cooper*, Phil. trans. 1800. 151. 1801. 435; perforation of the membrane; is said not to have been permanently beneficial. Maunoir and Celliez, Corvisart. IX; Ed. med. journ. I. 382; on perforation. Volta, Brugn. ann. chim.; Ed. med. journ. II. 422; on galvanism. Ed. med. journ. VI. 381; on perforation; Epist. ad. Haller. quoted. See paralysis particularis.

A. Simple difficulty of hearing. Dysecoea atonica. Cull. syn. xcvi. 2. Dysecoea organica c, d, f, g, h, xcvi. 1; the other varieties are symptomatic; Paracusis imperfecta d, xcvii.

1; assisted by a noise, as that of a drum. *Morgagni*, ep. 7. art. 19. Dysecoea, *Sauvages*, I. 751.

B. Perversion of hearing. Paracusis imperfecta a, b, c, Cull. syn. xcvii. 1. Paracusis, *Sauvages*, I. 755.

C. Hearing without sound. Paracusis imaginaria, Cull. syn. xcvii. 2; a, syrigmus, ringing; b, susurrus, whizzing; c, bombus, beating. Syrigmus, *Sauvages*, II. 193.

5. *Dysaesthesia visualis.* Forest. XI. n. 24, 25. *Morgagni*, ep. 13, de oculorum affectibus. Stack. Ir. trans. II. 27. Percival, M. Med. soc. Lond. II. 62; " dislike of square objects."- Fest Winke zur behandlung schwacher augen. 8. Leipz. 1793. Pflichten gegen die augen, von Adams, Büsch, Lichtenberg, und Sömmering. 8. Frankf. 1797. See general works, Paralysis.

A. Requiring a strong light. Dysopia tenebrarum, Cull. syn. xciv. 1. Amblyopia crepuscularis, *Sauvages*, I. 732; " Graecis hemeralopia, neotericis nyctalopia." *Heberden*, Med. trans. Lond. I. 60; " night blindness, or nyctalopia." Stark. clin. hist. 136; worms. Guthrie, M. Med. soc. Lond. IV. 368; Dunc. med. comm. XIX. 294; hen blindness.

B. Requiring a weak light. Dysopia luminis, Cull. syn. xciv. 2. Forest. XI. n. 38. Horst. opp. II. 100. Hillary Barb. 353. Briggs, Phil. trans. Amblyopia meridiana, *Sauvages*, I. 734; " nyctalopia. Hipp. prorrh. II." Webster, Lond. med. journ. VIII. 306. Guthrie, M. Med. soc. Lond.

1. From excess of sensibility, photodysphoria. Forest. XI. 27, 28, 46. Ed. med. ess. V. ii. n. 2. Haen. rat. med. XIV. 70. Justi, Balding. N. mag. XI. 446.

2. From a partial opacity, requiring a large aperture of the pupil.

C. Shortsightedness. Dysopia dissitorum, Cull. syn. xciv. 3. Forest. XI. n. 37. Amblyopia dissitorum, *Sauvages*, I. 735; myopia.

D. Longsightedness. Dysopia proximorum, Cull. syn. xciv. 4. Forest. XI. n. 36. Amblyopia proximorum, *Sauvages*, I. 740; presbyopia.

E. Immutability of sight. Young, Phil. trans. 1793. 169. 1801. 23; Nat. phil. *Wells*, Phil. trans. 1811. 378; from belladonna.

F. Lateral vision. Dysopia lateralis, Cull. syn. xciv. 5. Amblyopia luscorum, *Sauvages*, I. 742. Richter wund. III. 430.

1. The direct light being intercepted by a concealed diseased structure.

2. Some parts of the retina having their sensibility weakened. Pseudoblepsis mutans c, Cull. syn. xcv. 2. Suffusio dimidians, *Sauvages*, II. 190. I have twice felt a transitory affection of this kind, with a sensation of twinkling, once connected with a slight vertigo, and once, after an interval of some years, without vertigo. Y.

G. A false perception, of either eye. Suffusio, *Sauvages*, II. 174.

1. Spots. Pseudoblepsis imaginaria a, Cull. syn. xcv. 1. Suffusio myodes, *Sauvages*, II. 176. Muscae volitantes. These appearances are sometimes, if not always, occasioned by an opacity of some of the vessels of the vitreous humour, near the retina. They are seen in a full light, and cannot therefore, as Sauvages has justly remarked, be caused by any thing in the anterior part of the eye, and they may often be ob-

served to change their form with the motions of the eye, which they could not do, if they did not depend on some floating substance: their apparent change of position, when we attempt to follow them with the eye, is a necessary consequence of the motion of the eye itself which contains them. Y.

2. A network. Pseudoblepsis imaginaria b, Cull. syn. xcv. 1. Suffusio reticularis, *Sauvages*, II. 180. From the arteries of the retina.

3. Sparks. Pseudoblepsis imaginaria c, Cull. syn. xcv. 1. Suffusio scintillans, *Sauvages*, II. 181. R. W. Darwin, Phil. trans. 1786. 313; ocular spectra. Generally from too much light, or from a blow.

4. False colours. Pseudoblepsis imaginaria d, Cull. syn. xcv. 1. Suffusio coloris, *Sauvages*, II. 187. *Scott*, Phil. trans. 1778. Richter chir. bibl. V. 637. See Deformitas, 79.

5. Change of form. Pseudoblepsis mutans a, b, Cull. syn. xcv. 2. Suffusio metamorphosis, *Sauvages*, II. 188; nutans, 190. I have had a small irregularity of this kind for some years in the central parts of my right eye, with a slight defect of sensibility, which I attribute to a minute tumour between the retina and the choroid. Y.

H. Double vision. Pseudoblepsis mutans d, Cull. syn. xcv. 2. Forest. XI. n. 30. Briggs, Phil. trans. Lentin, II. obs. 20. Richter chir. bibl. II. i. 106. Baldinger N. mag. XI. 446; from hydrocephalus.

I. Squinting. Strabismus, Cull. syn. cxiv. *Porterfield*, Ed.

med. ess. III. Strabismus, *Sauvages*, I. 527. *Darwin*, Phil. trans. 1778. 86.

1? From a bad habit only. Strabismus habitualis. Cull. syn. cxiv. 1.

2? With double vision. Stalpart. II. n. 10.

3. One eye being weaker. Strabismus commodus. Cull. syn. cxiv. 2.

4. The eyes cooperating unnaturally. Strabismus necessarius. Cull. syn. cxiv. 3.

† Caligo lentis, Cull. syn. xcii. 1, phtharma; corneae, 2, ecphyma; pupillae, 3, contractura; humorum, 4, profusio, hydrops, abscessus; palpebrarum, 5, inflammatio, ecphyma.

6. *Dysaesthesia interna.* Amentiae initium, Cull. syn. lxv. Fernel. cons. II. Forest. X. n. 32. Severin. eff. med. 213. Wepfer obs. 363. Grüling, V. n. 39, 40. Junck. 120. Amnesia, *Sauvages*, II. 269. Balding. N. mag. XI. 51; from poison. See Autalgia vertigo.

V. AUTALGIA.

Local pain.

Partial pain or uneasiness, without any apparent cause.

1. A. *dolorósa.* Simple pain or aching.
2. A. *pruriginósa.* Itching, rather a minute continued uneasiness than a severe pain.
3. A. *vertígo.* Combined with a degree of confusion. Giddiness.

† Prurigo obscura.

1. *Autalgia dolorosa.*

A. Universal. Frequently symptomatic of fever, with lassitude.

B. Wandering pains. *Kite*, Lond. med. journ. III. 300; referred to the foot, after amputation for caries: the attacks resembled those of inflammatory fever, without inflammation of the stump.

C. In a bone. Ostocopus, *Sauvages*, II. 26; most of the species are merely symptomatic, except perhaps the O. cancrosus, 3. Theden N. bemerk. I. 109.

D. Headache. Cephalalgia, Hemicrania, Cull. syn. cat. morb. omissor. Hippocr. epid. VI. n. 1; diseas. II. p. 467. Galen comp. med. II. i. iii; loc. affect. II. vii. III. ix; euporist. i; Solon. viii. Paul. Aeg. III. vii. Forest. IX. passim. Horst. opp. II. 120, 334-8. Ballon. cons. I. 1, 114. III. 1, 85, 93, 109, 532. Riolan. anthropol. VI. ii. Sennert. opp. III. 849. Bartholin. ep. II. 640. IV. 27; hist. anat. I. n. 33. VI. n. 3, 57. Schenk obs. I. n. 36, 80. Bonet. sep. I. i. Willis an. brut. path. i, ii, iii; anat. cerebr. viii. Tulp. I. n. 12, 13, 32. Ruysch obs. n. 34. Bellin. morb. cap. 575. Hofmann de cephalaea, Med. rat. syst. II. ii. c. 1. Opp. I. 326. Bagliv. opp. 355. Wepfer obs. passim. Brendel. opp. II. 147. Whytt's works. Monro's works. *Douglas*, Ed. med. ess. V. ii. 602; an abscess in the cerebellum. *Morgagni*, ep. 1, de capitis dolore; ep. 3. art. 8; ep. 5. art. 2; ep. 25. art. 6; ep. 62. art. 15. Haller el. phys. X. vii. §. 20. Lieutaud hist. an. ob. 176, 179. II. iv. 6. p. 540. Balme, Journ. med. XLI; Gallot, XLIV, with an audible pulsation. Cephalalgia; Cephalaea, crotaphus Cael. Aur. ii, *Sauvages*, II. 49, 53. Stark. clin. inst. 102. Stoll. rat.

med. I. 258, 282. II. 93. III. 231. V. 435. VII. 32 ; prael. 314-8. Tiss. nerv. dis. Med. com. Ed. II. 186. Home clin. exp. Balding. kr. arm. 174. Coquereau, M. Soc. R. méd. II. 38; periodical. Med. comm. Ed. VI. 34; coffee, from *Percival.* Kilgour, Dunc. med. comm. VIII. 7. *Henry,* M. Med. soc. Lond. I. 294. Mursinna beob. I. n. 6. Selle N. beitr. I. 36. *Helsham,* Dunc. med. comm. XIII. 289; hydatids in the ventricles ; *Bell,* XVI. 386; 12 pounds of cold water daily for three months; See Marmontel's life. *Lettsom,* M. Med. soc. Lond. III. 44; *Parry,* 77. *Baillie's* engr. 221, 223; abscess, tubercles. *Bateman,* Ed. med. journ. I. 150; a tumour. *Parry,* Phil. trans. 1811; relieved by pressure on the carotids.

E. Acute face ache. Following the course of the ramifications of a nerve. Opsialgia, Prosopalgia, Neuralgia. Tic douloureux. *André* mal. urethr. 318. Trismus dolorificus, *Sauvages,* I. 533. *Fothergill,* Med. obs. inq. V. 129. *Thouret,* M. Soc. R. méd. V. 204. *Blunt,* Lond. med. journ. VII. 115; electricity. *Collingwood,* Dunc. med. comm. XVIII. 390; incision. *Haighton,* Med. records, 19. S. Fothergill's essay. 12. Lond. 1804. *Kitson,* Ed. med. journ. II, 319; *Pearson,* III. 272; *Corkindale,* IV. 305; calomel and opium. Galvanism is said to have been highly beneficial.

F. Ear ache. *Morgagni,* ep. 14, de aurium affectibus. Otalgia, *Sauvages,* II. 71.

G. Tooth ache. Dolor dentium, Sennert. prax. Odontalgia, *Sauvages,* II. 73. Often from inflammation, rheumatism, or caries, but not always : may extend, more or less, to the face.

(† Hysteriae, catarrhi, dyspepsiae, podagrae, cariei, scorbuti, dystociae, symptoma.)

H. Stitch, pain in the side. Pleurodyne, *Sauvages*, I. 682; none of the species idiopathic.

I. Pain in the breast. Mastodynia, *Sauvages*, II. 128; sp. 7. 8.

K. Pain in the uterus. Hysteralgia, *Sauvages*, II. 122. *Rutter*, Ed. med. journ. IV. 168.

L. Pudendagra, *Sauvages*, II. 147. *Bureau*, M. Med. soc. Lond. III. 65; removed by gonorrhoea.

M. Pain in the loins. Nervous lumbago. Lumbago, *Sauvages*, II. 138. Arthrodynia, rheumatismi sequela, Cull. syn. xxii. *Baine*, Med. obs. inq. II. 156; about the kidneys; relieved by equal parts of plain boiling and cold Pyrmont water.

N. Pain in the hip. Sciatica. Ischias, *Sauvages*, II. 141. Arthrodynia, rheumatismi sequela, Cull. syn. xxii. Hippocr. int. aff. III. p. 560. Cotunnius de ischiade nervosa. Germ. 8. Leipz. 1792. Haen. rat. med. IV. iv. Stoll. rat. med. V. 418. Sandifort tabul. visc. f. Leyd. 1801; Ed. med. journ. III. 461; from aneurysm. *Falconer*, M. Med. soc. Lond. VI. 174; Bath water.

2. *Autalgia pruriginosa*. Pruritus, *Sauvages*, II. 42. Oribas. VII. viii. Aëtius IV. i. 126. Forest. chir. V. n. 9.

A. Pudendagra pruriens, *Sauvages*, II. 148.

B. Hysterocnesmus. Forest. XXVIII. n. 50. Horst. opp. II. 95. Ballon. morb. mul. IV. 147. Bartholin. hist. an. V. 85; epist. III. 145. Bonet. sep. I. viii. Eph. N. cur. cent. III. IV. 156; from infancy. Astruc. mal. f. II. 299. Hysteralgia pruriginosa, *Sauvages*, II. 124. Betheder, Hautesierk rec. I. 274.

3. *Autalgia vertigo.* Galen loc. aff. III. viii. Forest. X. n. 43-9, 64. Horst. opp. II. Ballon. in Theophr. de vertig. opp. I. 291; consil. III. 1, 24, 62, 101. Willis an. brut. path. vii. Bellin. morb. cap. 581. Wepfer obs. 200, 230, 251. Vertigo, *Sauvages,* II. 166. Stoll. rat. med. I. 332. V. 435; prael. I. 336, 338. *Blane,* Tr. Soc. med. chir. kn. II. 198; tumour. Herz über schwindel. 8. Berl. 1791. Wollaston, Phil. trans. 1810. 1.

† Anxietas, Algor, Ardor, Nausea, Sauv. merely symptoms.

VI. ERETHISMUS.

Irritation.

A morbid sensibility or irritability.

1. E. *sim'plex.* Simple and general. Fidgets.
2. E. *nostal'gia.* Accompanied by a longing after absent scenes.
3. E. *agryp'nia.* Want of sleep.
4. E. *onirodyn'ia.* Producing disturbed sleep.
5. E. *micturit'ius.* Affecting chiefly the urinary organs.
6. E. *satyríasis.* Incontinence in men.
7. E. *nymphománia.* Incontinence in women.
8. E. *hydrophóbia.* With a difficulty of swallowing liquids, and an intolerance of cold.

† Clonus chorea, hysteria, ix.
(Parasitismi symptoma.)

1. *Erethismus simplex. Grant,* Lond. med. journ. VI. 1, 130; opium.

2. *Erethismus nostalgia.* Nostalgia simplex, Cull. syn. cvi.

1; *Sauvages*, I. 221. Junck. 125. Zwinger de nostomania. Balding. N. mag. X. 405. See Hectica tabes, xxi.

† Nostalgia complicata, Cull. syn. cvi. 2, cannot be ranked even as a variety.

3. *Erethismus agrypnia.* Plin. VII. 51; 3 years! Forest. X. 35, 36. Schenk, I. n. 256; 14 months. Wepfer obs. 354. Agrypnia, *Sauvages*, II. 271. Lentin. mem. 26.

4. *Erethismus onirodynia.*

A. Somnambulism. Onirodynia activa, Cull. syn. lxviii. 1. Sennert par. ad I. 9. Hofmann suppl. II. 2. Wepf. obs. 355. Somnambulismus, *Sauvages*, II. 205.

B. Nightmare. Onirodynia gravans, Cull. syn. lxviii. 2. Forest. X. n. 50-2. Sennert par. ad I. 10. Willis an. brut. Path. vi. Bellin. morb. cap. 604. Bond de incubo. 8. Ed. 1751; Smellie thes. II. 1. Ephialtes, *Sauvages*, I. 628; Panophobia? II. 223. Stoll prael. 353. Generally symptomatic of dyspepsia, sometimes of hydrocephalus, fever, or worms.

C. Gonorrhoea dormientium, Cull. syn. cxxiii. 4. Gonorrhoea onirogonos, *Sauvages*, II. 402. Hildebrandt über die ergiessungen des s. im schlaafe. 8. Brunsw. 1792. Jänisch de pollutione nocturna. 4. Gott. 1795.

5. *Erethismus micturitius.*

A. Enuresis, Cull. syn. cxxi. Seems to relate to this disease: but most of the species of Sauvages, II. 386, belong to paralysis. *Lettsom*, M. Med. soc. Lond. V. 18; from a tumour. See hyperuresis, xxviii.

B. During sleep. I have found pills of turpentine and rhubarb

in the morning, combined with antimonials and opiates at night, very beneficial in a case where cantharides had totally failed. Y.

6. *Erethismus satyriasis.* Satyriasis furens, Cull. civ. 2. Aret. acut. II. xii. Galen loc. affect. VI. vi. Oribas. IX. 39. Forest. XXVI. n. 5, 10. Ballon. cons. III. 61. Satyriasis, *Sauvages*, II. 224. Norris, Tr. Med. soc. Lond.; from a tumour.

† Satyriasis juvenilis, Cull. syn. civ. 1. Scarcely a disease.

7. *Erethismus nymphomania.* Nymphomania, Cull. syn. cv; *Sauvages*, II. 226.

8. *Erethismus hydrophobia.* Hydrophobia rabiosa, Cull. syn. lxiv. 1; inaccurately characterized, cum mordendi cupiditate. Plin. XXIX. v. Galen on Hipp. prorrh. II. Horst. opp. II. 234. 332. Barthol. hist. an. II. n. 89. V. n. 52. Tulp. I. n. 20, 21. Werlhof opp. III. 699. Boerh. 1138. Junck. 124. Fuller, Gordon, Kennedy, Lister, Mayerne, Mead, Mortimer, Nourse, Delaprime, Phil. trans. Mead on poisons. Trécourt, M. Ac. chir. *Plummer*, Ed. med. ess. V. ii. 590. Andree on epilepsy and hydrophobia. 8. Lond. 1746. Sauvages sur la rage. *Wilbraham*, Phil. trans. 1752. 412. Dalby on cinnabar and musk. Nugent on hydrophobia. 8. Lond. 1753. James on canine madness. Journ. méd. Choisel on hydrophobia. 8. Lond. 1756; mercury. Journ. méd. 1756. *Morgagni*, ep. 8, de hydrophobia, art. 19. . .; ep. 61. art. 9. *Hillary's* Barbadoes; seems to have been remarkably fortunate. *Ld. Morton*, Phil. trans. 1765. 139. Hydrophobia, *Sauvages*, II. 232; mercury. *Dickson*, Med. obs. inq. III. 356. Munckley, Med. tr. Lond. II. 46; Wrightson, 192; opium, scarcely hydrophobia. *Falkener*, 222. Traitement de la rage. Par. 1776. Soc. R. méd. I; H. 94; *Andry*, M. 104, 146. *Battie*, Med. comm. Ed. III. 290; the dog came and ate bread, and only bit the boy when he attempted to tie him. *Fothergill* and *Watson*, Med. obs. inq. V. 195, 290; *Raymond*, Append. Heysham de rabie canina. 8. Ed.

1777; Smellie thes. III. 496; Swed. trans. 1777; Lond. med. journ. III. 23; without a perceptible bite. J. Vaughan on hydrophobia. 8. Lond. 1778. Tilton, Med. comm. Ed. VI. 429; bleeding; after 17 years; scarcely hydrophobia. Soc. R. méd. II. H. 229, 230, 456. *Andry*, M. Soc. R. méd. II. 452. Parry de rabie contagiosa. 8. Ed. 1778; Webster m. pr. II. 255. Soc. R. med. III. H. 167. *Houlston*, Dunc. med. comm. VIII. 304. Portal, Ac. Par. *Papers* making Hist. et mém. Soc. R. méd. VI. 1783. ii; recommend repeated applications of muriate of antimony for 6 weeks. Schwatz de hydrophobia et meloe. 8. Hall. 1783. Münch über die belladonna. 8. Gott. 1783. Ungnad über den maywurm. 8. Züllich. 1783. *Michaelis*, Lond. med. journ. V. 286. *Babington*, Med. commun. I. 215. *R. Hamilton* on hydrophobia. 8. Ipsw. 1785. 2 v. 1798; Lond. med. journ. VII. 89. *Haighton*, Lond. med. journ. VI. 361. Leroux on hydrophobia; Lond. med. journ. VII. 81. *Houlston*, Dunc. med. comm. XI. 330. *Dundas*, Lond. med. journ. VIII. 156. Callisen, Soc. med. Havn. I. Desault sur la rage. Struve, Balding. syll. I. Balding. N. mag. I. 357; Höpfner, VIII. 534. *J. Johnstone*, M. Med. soc. Lond. I. 243. *Gray*, Dunc. med. comm. XII. 304; fatal after salivation. *Fabbroni*, Lond. med. journ. IX. 69; *Russel*, 256; X. 283, *Tanjore* antidotes; *Percival*, 295. *O' Donnel*, Med. commun. II. 290; a finger bitten by the patient without injury. *Ferriar*, Med. facts. I. 1; *Loftie*, 11; *Foot*, III. 33. Foot on hydrophobia. 8. Lond. 1793; excision only. *Shadwell*, M. Med. soc. Lond. III. 454; *White*, 608. Bader über hundswuth. 8. Frankf. 1792. *Cases*, Dunc. med. comm. XVII. 544; one after excision and salivation. *Sims*, from a Greek manuscript. M. Med. soc. Lond. II. 1. *Dr. J. Hunter*, Tr. soc. med. ch. kn. I. 294; an admirable compendium. Simmons, Med. facts, V. 87. *Tilton*, Dunc. med. comm. XVIII. 364. Arnold on hydrophobia. 8. Lond. 1793; Dunc. med. comm. XIX. 74; rather hysteria; relieved by musk, zinc, and laudanum; in dogs, according to Meynell, the disease appears from 10 days to 8 months after the bite: they never bark, but howl in a peculiar

manner: their eyes are leaden, and they often lap without swallowing: there is a dumb and raving madness. *Dexter*, M. Med. soc. Lond. IV. 404; *Malden*, 409; muriatic acid as a caustic; *Andree*, 428. *Johnston*, Dunc. med. comm. XX. 264; after a careful excision; the parts were bathed and compressed to force out the blood; and thus perhaps the communication of the poison promoted: probably perfect rest is the most advisable. Y. Roserus über die hundswuth. 8. Stett. 1797. Hildebrands wink von der hundswuth. 8. Vienn. 1797. *Babington* and *Wavell*, Med. records, 117; 180 grains of opium ineffectual. *Gaitskell*, M. Med. soc. Lond. V. 1; *Haynes*, 289; *Norris*, 302. Dunc. ann. 1799. 510; alkalis, and perhaps putrid substances, alleviate hydrophobia in dogs, Mitchill. Autenrieth de praetervisa nervorum lustratione in sectione hydrophoborum; "has perhaps made more inquiries into the animal economy than any person living." Beddoes. Bardsley's reports, 8. Lond. 1807, and Ed. med. journ. IV. 108; on the extirpation of hydrophobia. *Marcet*, Medicoch. tr. I. 132; Jenner, Medicoch. tr. I. 263; misinformed. *Gorey*, Ed. med. journ. III. 414. Moseley on hydrophobia. 8. Lond. 1808; Ed. med. journ. IV. 504. Ward on opiate friction. 8. Manch. 1809. *Oldknow*, Ed. med. journ. V. 277; the dog did not appear mad for 10 days after the bite. Gillman's prize essay. 8. Lond. 1812.

B ? Hydrophobia simplex, Cull. syn. lxiv. 2. Caelius Aurel. III. ix. Coste lett. to Mead. Med. comm. Ed. IV. 374. Trécourt, M. Ac. chir. Hydrophobia spontanea, *Sauvages*, II. 235. Sarcone, Nap. II. 264. Raymond, M. Soc. R. méd. II. 457. Lentin obs. I. n. 32. De la Lance, Balding. syll. I. Richter chir. bibl. I. ii. Theden N. bem. II. 162.

VII. PALMUS.

Spasm.

Irregular action of some of the involuntary muscles.

1. P. *cor'dis.*	Palpitation of the heart.
2. P. *vom'itus.*	Vomiting.
3. P. *col'ica.*	Griping pains supervening at intervals; at first without much tenderness.
4? P. *plumbárius.*	Severe griping, with a paralytic affection of the hands.
5? P. *abdominális.*	Abdominal pulsation, independent of the heart.

† Hysteriae, maniae, pyrexiae, dyspepsiae, podagrae, ecphymatis symptoma.

1. *Palmus cordis.* Palpitatio cardiaca, Cull. syn. liv. Palmus, Ploucq. nos. Galen loc. aff. V. 2; on swell. Fernel. cons. XXV. Forest. XVII. 1, 2, 5, 6. Horst. opp. II. 137, 139. III. Ballon. cons. I. 109. Bartholin. ep. I. 273. Schenk. II. 213; Dod. 215, Fern. 232. Bonet. sep. II. viii. Tulp. I. n. 15, 19, 27. Senac. mal. du coeur. Malpigh. opp. 123. Bellin. morb. pect. 637. Lancis. de aneur. Hofm. III. 83. Leeuwenhoek, Gould, Templeman, Phil. trans. *Lewis,* Ed. med. journ. II. 320. *Pulteney,* Phil. trans. 1761. 344. Junck. 33. *Morgagni,* ep. 23, de palpitatione et dolore cordis; ep. 24, de pulsibus praeter naturam, art. 17, 22-4; ep. 64, art. 9. .12. Haller progr. de induratis partibus. Sandifort obs. path. Störck, I. 75, 245. Palpitatio, *Sauvages,* I. 560. Chalmers Carol. Huxham, III. 50; epidemic? Stark clin. rem. Stoll prael. II. 49. *Brocklesby,* Med. obs. inq. III. 274; with diabetes. *Storer,* Dunc. med. comm. VII. 290; cuprum ammoniatum. *Cheston,* Med. obs. inq. VI.

31; *W. Hunter*, 291. *Simmons*, Med. commun. I. 228, *Baillie's* engr. 19; ossification, var. A? *Chavasse*, Lond. med. journ. VII. 407. Lettsom's med. reports. *Lettsom*, M. Med. soc. Lond. I. 77; *Ogle*, 197; perhaps inflammation; *Bayford*, II; the subclavian compressed in swallowing, from a deformitas. Balding. N. mag. I. 289. II. 497. V. 485. *Bennet*, Dunc. med. comm. XII. 316; after scarlatina, perhaps hydrothorax. *Kinglake*, Lond. med. journ. X. 341. Hautesierk rec. II. *Dunc.* med. comm. XIV. 402; a true polypus; *Guillan*, XVI. 377; fat in the ventricles. Theden, N. bem. II. 95. Selle, N. beitr. II. 26. *Baillie's* engr. 13; valves ossified. *Dundas*, Medicoch. tr. I. 37; heart soft. A. Burns on diseases of the heart. 8. Ed. 1809; Ed. med. journ. V. 340. *Aldis*, Ed. med. journ. V. 424; enlarged. *Wishart*, Ed. med. journ. VI. 80.

A. Affecting the pulse; a disease of the ventricle.

B. Not affecting the pulse; probably of the auricle; the more common.

2. *Palmus vomitus.* Dyspepsiae var. Cull. syn. xlv. Forest. XVIII. 14. .17, 34. Plater. obs. III. 803; after decapitation. Horst. opp. II. 292. Ballon. cons. III. 74. Barthol. hist. an. IV. 47. Schenk, III. n. 60, 61, 68, 75; 251, feculent, during life. Bonet. sep. III. viii. Tulp. II. n. 22, 23. Harris morb. inf. Mauriceau, I. 506. Hofmann suppl. II. 2. Stalpart, I. 56, 57. Sayer, Phil. trans. *Stedman*, Ed. med. ess. IV. 37; 20 drops of laudanum, taken after 6 grains of emetic tartar, fatal. Haen rat. med. VI. 13, 20; cont. II. ii. 38. *Morgagni*, ep. 30, de vomitu; ep. 36, art. 20; ep. 39, art. 21-9; ep. 65, art. 3. Pietsch, Journ. méd. XXI. 263; Fournier, XLII. 519; Sebire, LX. 548. Rec. pér. I. 20, 428. Lentin mem. 136. Vomitus, *Sauvages*, II. 336. Huxham, Phil. trans.; opp. III. 8. Stoll rat. med. III. 356, 385, 401; V. 461; prael. II. 169, 429. Anderson, Med. comm. Ed. II. 302. Portal, Dunc. med. comm.

X. 77. Keir, Med. commun. I. 8. *Hunter*, Med. obs. inq. VI. 324; milk in small quantities. Fink gallenkr. 280. Mém. Tur. 1788-9. n. 19. *Daniel*, Lond. med. journ. V. 183; from dysmenorrhoea. Vaughan, M. Med. soc. Lond. II. n. 13; in pregnancy, relieved by fasting. Theden, N. bem. II. 75. Selle, N. beitr. II. 41. III. 114-5. *Smyth*, Med. commun. II. 463; sudden death from an ulcer in the stomach. *Pemberton* abd. visc. 129; I have also seen a fatal case of apparently idiopathic vomiting, in which no morbid affection was discoverable after death; the patient was below the middle age, but had been intemperate. Y. See Diarrhoea, xxx, Dystocia, lxxvii.

3. *Palmus colica.* Colica, Cull. syn. lix. Hofm. II. 263, 284. Junck. 106, 107. *Short*, Ed. med. ess. IV. 441. *De Castro*, Phil. trans. 1751. 123. *Monro*, Ed. ess. phys. lit. II. 368. Colica, *Sauvages*, II. 99; Ileus, 344. *Garthshore*, Med. obs. inq. 223. *Scott*, Med. comm. Ed. IV. 334; fatty substances voided; *Percival*, V. 172; *Evans*, VI. 332; tobacco. Metford de colica; Webster m. pr. II. 60. *Dr. J. Hunter*, Med. trans. III. 227; new rum, containing a little lead. *Forbes*, Dunc. med. comm. IX. 266; a blister: *Gerard*, X. 293; from a scirrhus. *Bureau*, M. Med. soc. Lond. II. 227; a hydraulic machine; *Warner*, III. 590; *Hodges*, V. 6. *Baillie* engr. 81; a polypus in the colon. *Ross*, Ed. med. journ. I. 318; flatulent, cured by opiates.

A. With spasms of the abdominal muscles, often with feculent vomiting. Colica spasmodica, Cull. syn. lix. 1. Ed. med. ess. III. 27.

B. After long constipation. Colica stercorea, Cull. syn. lix. 3. Med. obs. inq. IV. 123. *Parry*, Dunc. med. comm. XVI. 331; quicksilver.

C. Colica meconialis, Cull. syn. lix. 5.

D. Colica callosa, Cull. syn. lix. 6. See Carcinoma, xlix.

E. From a concretion, a fixed hardness being perceived, and calculi having been formerly voided. Colica calculosa, Cull. syn. lix. 7. *Simson*, Ed. med. ess. I. 301; on a plumbstone. *Monro*, Ed. ess. phys. lit. II. 345. *Marischal*, M. Ac. chir. III. 55; *Moreau*, 57. *Fitzgerald*, Dunc. med. comm. VIII. 329. *Gaitskell*, Med. facts. IV. 31. In horses, Watson, Phil. trans. 1754, 800, Baker, 1760. 694; Withers, M. Med. soc. Lond. IV. 393. See obstructio, lxxiv.

† Colica accidentalis, Cull. syn. lix. 4, venenationis symptoma.

4. *Palmus plumbarius*. Colica pictonum, Cull. syn. lix. 2. *Porter*, Ed. med. ess. III. 357; warm bath. Hillary's Barb. Huxham de aere. *Wilson*, Ed. ess. phys. lit. I. 459; mill reek. *Baker* on the colic of Devonshire. 8. Lond. 1767. Geach's observations. Saunders's answer. Haen rat. med. I, III, X. XI. *Baker*, Med. trans. I. 175. .460, II. 419, III. 407. Rachialgia, *Sauvages*, II. 131. *Warren*, Med. trans. II. 68; opium at first. Withering on digitalis, 54. Lentin memor. 113, 114. *Luxmore*, M. Med. soc. Lond. III. 584. *Dunc.* med. comm. XIX. 313; severe cases from a cistern on board of a ship; sulfuret of potass showed the lead; opium at first was injurious, promoting relapses; sulfur and camphor succeeded well. Stoll rat. med. II. 270. VII. 308. *Perceval*, Trans. Ir. Ac. V. 89; solution of lead by lime. Carten Balding. N. mag. I. 113. See paralysis particularis B 1.

5 ? *Palmus abdominalis*. Columb. anat ? Schenk. III. n. 202. Tulp. II. 28. *Morgagni*, ep. 39. art 19, 20; attributed to irregularities of the peristaltic motion, with flatulence. *Albers*, Ed. med. journ. III. 8; a pulsation in the abdomen.

VIII. PNEUSIS.

Anhelation.

Irregular action of the partially voluntary muscles, that is, of the muscles concerned in respiration.

1. Pn. *singul'tus.*	A convulsion of the diaphragm. Hiccup.
2. Pn. *sternutátio.*	Sneezing.
3. Pn. *tus'sis.*	Cough.
4. Pn. *pertus'sis.*	A cough followed by a sonorous inspiration, with momentary debility, and often vomiting. Hooping Cough. Contagious.
5. Pn. *as'thma.*	A difficulty of breathing, occurring at intervals, with oppression, and a sense of suffocation, followed by expectoration.
6. Pn. *dyspnoéa.*	A permanent difficulty of breathing, with occasional cough.

(Hysteriae, profusionis, haemorrhagiae, rheumatismi, catarrhi, dyspepsiae, podagrae, paraphymatis, syphilidis, venenationis, parasitismi, dysodontiasis, dystociae, symptoma.)

1. *Pneusis singultus.* Oribas. VI. 1, 42. Forest. XVIII. n. 12. Plater. obs. I. 217. Ballon. consil. I. 59. Bartholin. hist. an. II. n. 4. III. p. 244. Schenk. III. n. 49. Med. comm. Ed. V. 166. Clegh. Minorc. Fink gallenkr. 238. Stoll prael. II. 153. *Duncan,* Dunc. med. comm. XIV. 371; sulfuric acid. *Scott,* Dunc. ann. 1802. 351.

2. *Pneusis sternutatio.* Forest. X. 127. Horst. opp. II. 298. Lancis. sub. mort. 34. Stalpart, II. 6. *Morgagni,* ep. 14. n. 27.

3. *Pneusis tussis.* Fernel. cons. XXIV. Forest. XVI. n. 1. .6. Horst. opp. II. 128. Bartholin. hist. an. II. 27. Bonet. II. iii. 11; concretions. Willis pharm. rat. II. i. c. 4. Tulp. IV. n. 9, 15, 21. Mauriceau, I. 141. G. Harv. expect. vi. xxvii. Bellin. morb. pect. 662. Lancis. sub. mort. 36. Bagliv. pr. I. ix. Stalpart. I. 46. Nichols, Phil. trans. Morgan's mechanical practice. 8. Lond. 1735; gentle salivation. *Morgagni,* ep. 15, art. 21, 22; from concretions; ep. 19. de tussi; ep. 22, art. 24. Lentin mem. 54. Tussis, *Sauvages,* I. 647. D. Monro arm. dis. Stark clin. inst. Stoll, rat. med. I. 282. II. 321. V. 135; prael. II. 52, 431. Mudge on coughs. Balding. kr. arm. 171. N. mag. IV. 258. Fink gallenkr. 224. Doubleday, Med. obs. inq. V. *Leith,* Med. comm. Ed. VI. 343; flowers of zinc. *Varnier,* M. Soc. R. méd. III, 411. *Douglas,* Med. obs. inq. VI. 163; with an itching, relieved only by eau de luce. *Percival,* Lond. med. journ. IV. 65; connected with the stomach. *B. Bell,* Dunc. med. comm. XIV. 307. *Stanger,* Medicoch. tr. I. 13.

4. *Pneusis pertussis.* Pertussis, Cull. syn. lvii. Willis path. cerebr. c. 12. Sydenham. p. 200, 311-2. Morton de tussi convulsiva. Hofmann, suppl. II. 2. Werlhof. opp. III. 690, 693. Huxham, 1732, opp. I. 98. Lentin, mem. 37. Tussis ferina, convulsiva, *Sauvages,* I. 651. *Morris,* Med. obs. inq. III. 281; castor and bark; *Fothergill,* 319. Stoll rat. med. II. 178; prael. 267, 290. Armstrong dis. ch. Ackermann, Balding. N. mag. VI. 399. Butter on the kinkcough, and on hemlock. 8. Lond.; Med. comm. Ed. I. 387; Lettsom, III. 309. Schwediaur, Lond. med. journ. 1781. Kirkland de pertussi; Webster, m. pr. II. 137. Strack de tussi convulsiva. 8. Mentz; Lond. med. journ. II. 393. *Percival,* M. Med. soc. Lond. II. 53; after croup. Danz geschichte des keichhustens. 8. Marb. 1791; "a good collection of all that has been done." Rothe. Ed. med. journ. IV. 256; acetate of lead. R. Pearson, Medicoch. tr. I. 23.

5. *Pneusis asthma.* Asthma spontaneum, Cull. syn. lv. 1; A.

exanthematicum, 2; A. plethoricum, 3. Galen, diffic. breath. I. .III; loc. aff. IV. vii. V. ii. Fernel. cons. XXII. Forest. XVI. n. 7..10. XXVIII. n. 25..34. Plater obs. I. 180. Horst. opp. II. 126...288. Ballon. opp. I. 108, 146; cons. I. 22, 51. III. 89. Barthol. ep. II. 683. IV. 91; hist. an. VI. n. 55. Schenk. II. 59, 68, 70, 264. Bonet. sep. I. 502, 644. II. i. Willis pharm. rat. II. i. c. 2, 3, 12; path. cer. xii. Mauriceau, I. 141. G. Harv. exp. xxxi. Ruysch, obs. n. 19, 21, 69. Bellin. morb. pect. 674. Hofmann, III. 94: suppl. II. 2. Bagliv. pr. I. ix. Boerh. opusc. 112. Wepf. obs. p. 45, 94; Memor. Wepf. Marchettis, 95. Giffard, Rutty, Paitoni, André, Holt, Phil. trans. Floyer on asthma. 8. Lond. 1726. Asthma spasticum Juncker. *Monro*, Ed. med. ess. III. 348, 485; Simson, V. ii. 622. Abernethy de asthmate. 8. Ed. 1754. Smellie thes. II. 95. *Morgagni*, ep. 15.. 18. de respiratione laesa; ep. 23, art. 8. Lentin mem. 144. Sandifort, obs. anat. Störck, praec. m. pr. I. 148. Musgrave's Gulstonian lecture. *Watson*, Phil. trans. 1764; emphysema, from sickness. *Akenside*, Med. trans. I. 93; ipecacuan. Asthma, *Sauvages*, I. 661; Orthopnoea, 670: the orthopnoea being only less regularly periodical than asthma. Bordenave, Ac. Par. 1768. Kellie, Med. comm. Ed. II. 432. Withers on asthma and on zinc. 8. Lond. 1775. 1786. *Scott*, Phil. trans. 1776. 168; Med. comm. Ed. IV. 75; *from* ipecacuan. Fothergill's works, II. Percival and Pringle, Med. comm. Ed. VI; coffee. Bromfeild, Richt. chir. bibl. II. ii. 110; Gooch, iv. 127. Huxham, III. 9. Stark, clin. obs. Melliar de asthmate; Webster, m. pr. II. 124. Stoll, rat. med. I. 298. II. 347. III. 117. V. 436. VII. 96, 135; prael. I. 81. II. 78. Hamilton, Dunc. med. comm. IX. 9; Dick. X. 36. Pulteney, Med. trans. III. 253. Balding. kr. arm. 171. Pfündel, Bald. N. mag. VII. 165; Zeller, VIII. 177; Willich, IX. 267. Fordyce, fragm. Fink, gallenkr. 234. Chavasse, Lond. med. journ. 1786. Baylies pract. ess. Theden, N. bem. II. 72, 74, 79. Selle N. beitr. II. *Rush*, Med. obs. inq. V. 96; spasmodic asthma, with constant dyspnoea from a tumour on the trachea. *Bree* on disordered respiration. 8. Birm. 1803. Lond.

1807. Some few of these authorities relate rather to the usual causes of asthma than to the symptoms.

A. Humoral asthma; the convulsions being excited by a morbid secretion.

B. Aerial; the convulsions being excited by effluvia, or by changes of air.

C. Visceral; the fits arising from sympathy with some diseased viscera.

D. Habitual; maintained by habit alone. Bree.

6. *Pneusis dyspnoea.* Dyspnoea, Cull. syn. lvi. Forest. XIII. 9. Plater. obs. I. 166. .185. III. 601. Willis pharm. rat. II. i. 12. Stalpart, I. 22. Hofm. III. ii. c. 2. §. 3. Marchett. 58. Ed. med. ess. III. 25. *Morgagni*, ep. 15..18, de respiratione laesa; ep. 19, de suffocatione et de tussi; ep. 21, art. 19. .22; ep. 24, art. 13; ep. 40, art. 23; ep. 43, thoracic hernia; ep. 54, art. 12, 13; ep. 64, art 19. Wilmer's cases. Dyspnoea, *Sauvages*, I. 656; Rheuma? 686. Stark clin. obs. Stoll. pr. m. VII. 90. Jackson, Med. comm. Ed. VI. 224. Lettsom, M. Med. soc. Lond. Bayford, M. Med. soc. Lond. II. 225; the subclavian passing between the oesophagus and the trachea. *Smyth*, Med. commun. II. 471; a fatal extravasation into the lungs. Baillie's engr. 43; enlarged air cells. See also many of the authorities quoted under the last species. For cyania, see deformitas.

† The species of Cullen are scarcely distinct and independent enough to constitute even varieties; D. catarrhalis, 1, is professedly a symptom of catarrh; D. sicca, 2, rather an attendant of cough, or a forerunner of hectic; D. aerea, 3, an accidental character of any other kind of dyspnoea; D. terrea, 4, probably seldom without cough; D. aquosa, 5, a symptom of dropsy; D. pinguedinosa, 6, from polysarcia; D. thoracica,

7, from a structural disease, or a deformity; D. extrinseca, 8, from some accidental or mechanical affection.

IX. CLONUS.

Convulsion.

A repeated contraction of a voluntary muscle.

1. Cl. *convul'sio.* A simple convulsion of some of the muscles.
2. Cl. *choréa.* Convulsions mixed with tremors, capable of being partly controlled. St. Vitus's dance.
3. Cl. *hystéria.* With a sense of choking, as if from flatulence, and with involuntary laughing or crying.
4. Cl. *raphánia.* Periodical contractions of the limbs, accompanied by violent pains.
5. Cl. *epilep'sia.* Convulsions accompanied by total insensibility.

† Erethismus hydrophobia, vi.

(Erethismi, pyrexiae, epischesis, dyspepsiae, vulneris, venenationis, parasitismi, dystociae symptoma.)

1. *Clonus convulsio.* Convulsio, Cull. syn. l. Galen. trem.; loc. aff. III. vi. V. vi. Forest. X. n. 101..117. Horst. opp. II. 112, 120. Ballon. opp. I. 32; cons. I. 40, 73. II. n. 6. Bartholin. ep. II. 700. Willis path. cer. I. i. iv... morb. conv. ix. Tulp. I. n. 17. Bellin. morb. cap. 535. Hofm. opp. suppl. II. 2. Bagliv. pr. m. I. ix. Wepfer, obs. 480. Freind. Cole, Leigh, Watson, Phil. trans. Monro's works. *Morgagni,* ep. 1. art 2... ep. 9. art. 9, 18; ep. 10, 62, de convulsione, et motibus convulsivis; ep. 54. art. 44, from a wound, see vulnus. Sarcone,

Nap. III. *Arnot,* Ed. med. ess. V. ii. 634; extract of poppies externally. Convulsio, *Sauvages,* I. 550. Stoll rat. med. II. 207. III. 412. Tiss. nerv. dis. II. Mannotti, Ac. Sienn. I. Armstr. dis. ch. *Owen,* Med. obs. inq. III. 183; musk. *Baker,* Med. trans. III. 113; among poor children, perhaps from impure air. *Hannes,* Med. comm. Ed. I. 245; *Smith,* III. 316; fright; *White,* IV. 326; hieranosos, cured by zinc; Bullivant, 447; after amputation; Dugud. V. 84; zinc. Balding. N. mag. II. 254; lead. Lay. M. Med. soc. Lond. I. 326; of the eyes, laudanum topically. Houlke, Lond. med. journ. V. *Clarke,* Trans. Ir. Ac. III. 89; VI. 3; Med. facts. III. 78; in infants. *Perceval,* Trans. Ir. Ac. IV. 97; Med. facts. V. 158; a peculiar motion of the eyes. *Malden,* M. Med. soc. Lond. IV. 412. *Albers,* Dunc. ann. 1802. 406. Albers, Ed. med. journ. III. 8; see palmus abdominalis, vii.

2. *Clonus chorea.* Chorea, Cull. syn. li. Forest. XXX. n. 12. Horst. opp. II. 112, 118-9. Barthol. hist. an. VI. n. 35. Tulp. I. 16. Sydenh. sched. monit. 748. Bagliv. diss. 6. opp. 599; tarantula. Haen rat. med. III. 202: from mercury. Geach, Phil. trans. Ed. ess. phys. lit. III. 5. Stoll, rat. med. III. 405, 416. Scelotyrbe, *Sauvages,* I. 590. Balding. N. mag. IX. 185. *A. Fothergill,* Phil. trans. 1779. 1. *Walker,* Dunc. med. comm. X. 288; cuprum ammoniatum. *Willan,* Lond. med. journ. VII. 187; cupr. amm. *Wilson,* Dunc. med. comm. XII. 325; camphor. *Lucas,* Lond. med. journ. XI. 125; music. *Wright,* M. Med. soc. Lond. III. 563; flowers of zinc; *Andree,* IV. 428. *Hall,* Dunc. ann. 1799. 374; 1800, 344; nitrate of silver; *Alexander,* 1801. 303; zinc. *M'Mullin,* Ed. med. journ. I. 25; *Kellie,* II. 422; purgatives.

3. *Clonus hysteria.* Hysteria, Cull. syn. lxiii. Galen, loc. aff. III. Ballon. morb. mul. opp. IV. 147. Willis, opp. I. path. affect. hyst. c. 5, 10, 11; path. cer. x; de an. br. 11. Mauriceau. Sydenh. affect. hyst. 494. Hofm. III. 50. Junck. 36. *Eccles,* Ed. med. ess. V. ii. 471; an extraordinary abstinence. Raulin

des affections vaporeuses. 12. Par. 1758. *Morgagni*, ep. 45, de uteri, ut mulieres aiunt, ascensu ; art. 17... Whytt nerv. dis. Hysteria, *Sauvages*, I. 585. *Evans*, Med. obs. inq. I. 83 ; electricity ; *Macaulay*, 230. Stoll prael. 353. Tissot nerv. dis. Fink gallenkr. 174. Woolcombe de hysteria. 8. Ed. 1776 ; Webster m. pr. II. 109. Caldwell de hysteria. 8. Ed. 1780. Baldinger neurolog. opusc. 187. *Storer*, Dunc. med. comm. VII. 290 ; cupr. amm. ; *Maclachlan*, X. 247 ; oxyd of zinc. *Ed.* med. journ. III. 434 ; an epidemic in Scotland.

4. *Clonus raphania.* Raphania, Cull. syn. lii. Kriebelkrankheit. Ergot. Sennert. febr. IV. xvi. Horst. II. viii. n. 22. Willis morb. conv. Muller, Hall. disp. I ; Waldschmied, Wedel, VII. Hofm. I. 231. Kanngiesser, Brunner, Willich. Eph. N. C. Act. Ac. Caes. Wepf. obs. 120. Bresl. samml. 1717, 1723. Bruckmann, Comm. Norimb. 1743. 50. *Tissot*, Phil. trans. 1765. 106 ; ergot. *Linné* amoen. acad. VI. Convulsio raphania, *Sauvages*, I. 554, 7 ; ab ustilagine, 8 ; Eclampsia typhodes, I. 569. Rödde von der kriebelkrankheit. 8. Frankf. 1772. Saillant, M. Soc. R. méd. I. 303, and Tessier, II. 587 ; from ergot. Taube geschichte der kriebelkrankheit. 8. Vienn. 1782. Moscati on a convulsive disease in the poorhouse at Milan. Germ. 8. Vienn. 1796 ; had 90 cases.

B ? With gangrenous affections. H. Ac. Par. 1740, 1748, 1751. Salerne, M. Sav. étr. II. 1755. Quesnay de gangraena sicca, 355, 407. Necrosis ustilaginea, *Sauvages*, II. 623. *Jussieu* and others, M. Soc. R. méd. I. 260 ; feu St. Antoine ; see gangrene.

5. *Clonus epilepsia.* Epilepsia, Cull. syn. liii. Galen. loc. aff. III. vii. V. vi. Fernel. cons. VII. Forest. X. 53.. , Horst. opp. II. 75. Ballon. cons. I. 33, 61. II. 4. III. 43, 52, 118. Willis path. cer. ii, iii. Tulp. I. ix. Bellin. morb. cap. 513. Hofm. III. 9. Junck. 54. Boerh. 1771. Wepf. obs. 581, 626. Dover's legacy. Turberville, Phil. trans. *St. Clair*, Ed. med. ess. II. 287 ;

Short, IV. 416; cured by extracting a minute tumour from the leg; *Monro*, V. ii. 501; bleeding. *Johnstone*, Med. obs. inq. II. 107; dissections. *Morgagni*, ep. 9, 67, de epilepsia. Sarcone, Nap. III. Eclampsia, *Sauvages*, I. 569; Epilepsia, 577. D. Monro arm. dis. *Laroche*, Med. comm. Ed. I. 200; hydrocephalus; *B. Bell*, 204; flowers of zinc; Odhelius; 368; stramonium. Duncan's cases; cupr. ammon. *Mackenzie*, Phil. trans. 1777. 1; abstinence for several years, with trismus. *Johnson*, Med. comm. Ed. V. 311; zinc. sulf. grv—xij twice a day; *Bland*, VII. 301; cupr. amm.; *Hamilton*, 325; bleeding; *Heysham*, 341, 451; cupr. amm. in epilepsy and dysphagia spasmodica; *Armstrong*, IX. 317. Stark, clin. obs. Stoll rat. med. VII. 298; prael. II. 1. Tissot nerv. dis. IV. Balding. kr. arm. 125. Theden, N. bem. I. 52. *Saillant*, M. soc. R. méd. III. 305. Turpin de epilepsia; Webster, m. pr. II. 147. *Clark*, Lond. med. journ. I. 428; *Janssen*, IV. 74; after haemorrhage. *Saillant*, M. Soc. R. méd. V. 88. *Fothergill*, Med. obs. inq. VI. 68. *Lind*, Lond. med. journ. VII. 52; fl. zinc. Dunc. med. comm. XIII. 411; arsenic. *Lettsom*, M. Med. soc. Lond. III. 383; emetics. Feuerstein de epilepsia. 4. Gott. 1792. *Ja. Sims*, M. Med. soc. Lond. IV. 379; silver. Gmelin über das Ragalosche mittel; chiefly valerian and cajuput oil. *Wilson*, Dunc. ann. 1797. 405; arg. nitr. Henning analecta literaria. 4. Leipz. 1798. *A. Fothergill*, M. Med. soc. Lond. V. 221; arteriotomy. *Hall*, Dunc. ann. 1799. 374; arg. nitr.; *Haxby*, 434; musk and opium; *Batty*, 1801. 377; cupr. amm. *Baillie's* engr. 215? Ossified falx. *Duncan*, D. ann. 1803. 339; galvanism. Mojon, Soc. em. Genov. I; a tumour pressing on a nerve. Fraser on misletoe. 8. Lond. 1806; Ed. med. journ. II. 352; *Coates*, 428; cured by trepanning.

A. Without any local sensation, except in the head. Epilepsia cerebralis, Cull. syn. liii. 1; E. occasionalis a pathemate mentis, 3. Horst. opp. II. 75. p. 89. Sennert. paralip. I. m. pr. n. 15, 16, paral. V. n. 2. Bonet. sep. I. §. 12. Hunauld, Ac. Par. 1734. Walter, Phil. trans. Med. comm. Ed. I.

229. Fink gallenkr. Sarcone, Nap. III. Tissot nerv. dis. IV. Meyer, Bald. N. mag. IV. 509.

B. Preceded by a peculiar sensation, creeping up from a distant part of the body. Epilepsia sympathica, Cull. syn. liii. 2.

† Epilepsia occasionalis, Cull. syn. liii; astheniae, pyrexiae, ischuriae, profusionis, dyspepsiae, epiphymatis, vulneris, venenationis, parasitismi, dystociae symptoma.

X. ENTONIA.

Rigidity.

A fixed or continued contraction of a voluntary muscle.

1. E. *rig'ida.* A forcible and violent contraction, depending on a continued exertion of muscular energy.
2. E. *catalep'sis.* A contraction, capable of being overcome by external force; while the limbs retain the position in which they are placed.

† Contractura, xl.

(† Hysteriae, maniae, pyrexiae, amenorrhoeae, dyspepsiae, paraphymatis, scorbuti, vulneris, venenationis, parasitismi symptoma.)

1. *Entonia rigida.* Hippocr. dis. III. 491; int. aff. 561. Barthol. ep. IV. 390, 397. Wepfer obs. 696. Brendel, opp. I. 189. Werlhof, opp. III. 704. Monro's lect. Geach, Phil. trans.

Haen rat. med. VI. iv. s. 9; X. iii. iv. Hillary's Barb. Lentin memor. Chalmers Carol. Cleghorn Min. Stoll rat. med. IV. 89. Med. comm. Ed. I. 87. Balding. N. mag. III. 429; VIII. 513; Metzler, IX. 429. Steuart de spasmo; Webster m. pr. II. 164. Rush, Am. trans. II. Hufelands journ. Loders journ.

A. Locked jaw. Trismus, Cull. syn. xlviii. (2); Trismus nascentium, 1; Tr. traumaticus, 2. Heister comp. m. pr. xv. §. 10. Hillary's Barb. 221. Cleghorn's Min. intr. 33. Hofer, Act. Helv. I. 65; Zwinger, III. 319. *Silvester*, Med. obs. inq. I. 1; *Clephane*, 50; *Macaulay*, II. 130; *White*, 382; III. art. 31. *Woolcombe*, Phil. trans. 1765. 85; *Spry*, 1767. 88; electricity. Trismus, *Sauvages*, I. 530. *Farr*. Med. obs. inq. IV. 91. *Manget*, Med. comm. Ed. I. 318; from the insertion of a tooth. *Carter*, Med. trans. Lond. II. 39. *Moodie*, Med. comm. Ed. III. 304. Akermann über den trismus. 8. Nur.; Med. comm. Ed. VI. 387. *Wright*, Med. obs. inq. VI. 143. *Andree*, M. Med. soc. Lond. IV. 428. *Dexter*, Amer. Ac.; Med. facts. VII. 266. *Mackie*, Dunc. med. comm. XX. 302; from a wound; opium. *Chisholm*, Dunc. ann. 1800. 402. *Dalrymple*, Ed. med. journ. I. 294; cold affusion. *Harkness* and *Parkinson*, Medicoch. tr. II. 284, 291; immense doses of opium, wine, porter, and cathartics. See wounds.

†Trismus traumaticus Cull. is sometimes, but not always, symptomatic of a wound.

B. Affecting a small part of the body without locked jaw. *Aird*, Ed. med. ess. I. 281; oesophagus. *Percival*, Med. trans. II. 90; oesophagus. *Partington*, Phil. trans. 1778. 97; electricity. *Eason*, Med. comm. Ed. V. 83; electricity. *Gilby*, Lond. med. journ. XI. 385; wry neck; electricity. *Parkinson*, M. Med. soc. Lond. II. 493; eyelids, from lightning.

2. Crampus, *Sauvages*, I. 540; painful and of short duration, but not a clonus. Cramp.

C. Affecting at least half of the body. Tetanus, Cull. syn. xlviii. 1. Spasmus, Bont. med. Indor. Hillary's Barb. 219. *D. Monro* and *A. Monro*, Ed. phys. ess. III. 551, 557; mercurial ointment. *Chalmers*, Med. obs. inq. I. 87. *Watson*, Phil. trans. 1763. 10. Tetanus, *Sauvages*, I. 541; Catochus, 545; Convulsio Indica, 554. *Huck*, Med. obs. inq. III. 326; opium and musk. Trnka de tetano. 8. Vienn. 1777. *Cochran*, Med. comm. Ed. III. 183; cold bathing. Munro de tetano. 8. Ed. 1783; Smellie thes. IV. 325. *Chavasse*, Dunc. med. comm. IX. 374. *Rush*, Am. trans.; Lond. med. journ. VII. 424. *Rush*, M. Med. soc. Lond. I. 65; *Shoaft*, II. 108; calomel, bark, wine, and cold bathing; *Conyngham*, 114; calomel, bark, and wine; *Hutchinson*, 138; electricity; *Ja. Currie*, III. 147. *Ellis*, Dunc. med. comm. XIX. 341; from a puncture; caustic. *Dallas*, Dunc. ann. 1798. 323; Hosack, 1799. 389; wine. *Smith*, M. Med. soc. Lond. VI. 77. *Mursinna*, Ed. med. journ. II. 430; idiopathic. *Arnoldi*, Ed. med. journ. IV. 45; cold affusion, to fainting. *Briggs*, Ed. med. journ. V. 149; purgatives; VI. 173; from *Stoll*. See wounds.

1. Opisthot'onus. 2. Emprosthot'onus. 3. Pleurot'onus, not "Pleurosthotonus," Strack. 4. Holot'onus. 5? Ecstasis, *Sauvages*, I. 828; a partial rigidity.

2. *Entonia catalepsis*. Apoplexia cataleptica, Cull. syn. xlii, 8. Paul Aeg. III. x. Forest. X. n. 41. Sennert. paral. I. n. 11. Tulp. I. 22. Bellin. morb. cap. 599. Hofm. med. rat. IV. iii. c. 4. obs. 1. Boerh. 1036. Junck. 44. Wepf. obs. 558. Phil. trans. 1735. Reynell, Phil. trans. Catalepsis, *Sauvages*, I. 824. Stoll prael. II. 10. Tissot nerv. dis. Fabri de catalepsi. 8. Hall. 1780. Behrends, Bald. N. mag. IX. 193, 201; X. 67. Selle N.

beitr. II. 18. *Fitzpatrick*, Dunc. med. comm. X. 242. *Wilkinson*, Med. facts. III. 53. *Lubbock*, Ed. med. journ. I. 61.

XI. MANIA.

Insanity.

An idiopathic depravation of the faculties of the mind.

The limits between health and disease in this case, as in many others, are somewhat indistinct: the species also run frequently into each other.

1. M. *amen'tia.* Want of perception, or of memory, as well as of judgment. Idiotism, or imbecility.
2. M. *melanchólia.* The perceptions being little affected, the derangement of the judgment confined to some particular objects.
3. M. *universális.* The derangement of the judgment being general and total; the sensations not being materially impaired.

(† Hysteriae, pyrexiae, dyspepsiae, venenationis symptoma.)

1. MANIA. Galen melanch.; loc. aff. III. vii. Forest. X. n. 12. 36. Plater. obs. I. Horst. opp. I. 431-2. II. 79, 94. III. 72? Ballon. morb. mul. IV. 143. Sennert. paralip. I. 3, 8? Barthol. ep. I. 207. Willis an. brut. xi, xii. Tulp. I. n. 19. Sydenh. opp. 122, 531. Bellin. morb. cap. 501, 514. Hofm. suppl. II. 2. Bagliv. m. pr. x iv. Wepfer. obs. 316, 324, 332. Stalpart. II. 19. Swieten, §. 1180. Doddridge, Munckley, Phil. trans. *Barry*, Ed. med. ess. IV. 414; callus. *Battie*

on madness. 4. Lond. 1758. *J. Monro* on Battie's treatise. 8. Lond. 1758. *Morgagni*, ep. 8, de mania, melancholia; ep. 61, de deliriis quae sine febri contingunt. Landais, Journ. méd. XLI. Lentin beob. 113, 116, 123; memor. 138. Sarcone, Nap. II. III. 1. Deliria, *Sauvages*, II. cl. 8. ord. 4. Stoll rat. med. III. 199; prael. II. 6. Med. comm. Ed. IV. 424; VII. 105; VIII. 1. Stuart de mania; Webster m. pr. II. 238. Arnold on insanity. Ed. 2. 2 v. 8. Lond. 1806. *Cowling*, Lond. med. journ. II. 198; after hemiplegia. *Jones*, Dunc. med. comm. XI. 302, 380; *Cox*, XIV. 261; digitalis. *Oliver*, Lond. med. journ. VI. 120; camphor; *Simmons*, 159; with hydrocephalus. *A. Fothergill*, M. Med. soc. Lond. I. 310. Balding. kr. arm. 134; Meier, Bald. N. mag. IV. 200; Bücking, VIII. 47; Willich, 252; IX. 83, 183. X. 76; Willich, 106; Pflüger, XI. 146. Withering on digitalis. Osiander beobachtungen, 137. Mursinna beob. I. 131. Selle, N. beitr. I. 25. Mania lactea, Denon on rupture of the uterus. Chiarugi on madness. Flor. 1793-4. Germ. 8. Leipz. 1791. Schmidt Psychologische behandlungsart. 8. Hamb. 1797. *Crichton* on mental derangement, 2 v. 8. Lond. 1798; Germ. *abridged*, 8. Leipz. 1798. "A valuable work, the author is acquainted with the *German physicians and philosophers.*" Rothe. * *Haslam* on madness and melancholy. Ed. 2. 8. Lond. 1809. Quarterly Review. I. n. ii; Ed. med. journ. V. 449. *Ja. Sims*, M. Med. soc. Lond. V. 372. *Brown*, Dunc. ann. 1799. 488; cold; *Hall*, 1800. 364; cold; *Ross*, 383; fasting, often for 14 days. Jourdan, Hufel. journ. IV. 227; Bedd. on fever; from the pressure of a particle of glass. *Cox* on insanity. 8. Lond. 1804, 1806; Ed. med. journ. I. 228. *Pinel* on insanity, by Davis. 8. Lond. 1806; Ed. med. journ. III. 220. Ed. med. journ. II. 440. *Report* to the House of Commons, Ed. med. journ. IV. 129; *Duncan*, 144. *Crowther* on insanity. 8. Lond. 1811.

1. *Mania amentia.* Amentia, Cull. syn. lxv. Sennert. paral.

I. n. 17; imaginary poison. Bonet. sep. I. 260; brain dry. Willis an. brut.; Path. xiii. Sydenh. opp. 125. Raii hist. pl.; stramonium. Amentia, *Sauvages*, II. 248. *Morgagni*, ep. 1, art. 10; ep. 61; alterations of the brain. Lentin bem. einig. kr. Vollmar, Balding. N. mag. VII. 77. Idiotism of Pinel.

A. From birth. Amentia congenita, Cull. syn. lxv. 1. *Reeve* on cretinism, Phil. trans. 1808. 111; Ed. med. journ. V. 31.

B. Dotage. Amentia senilis, Cull. syn. lxv. 2.

C. Of middle age. Amentia acquisita, Cull. syn. lxv. 3; sometimes merely symptomatic of another disease.

2. *Mania melancholia.* Melancholia, Cull. syn. lxvi. Plater. I. 39; " ex habitu jocorum." Hofm. III. 251. Boerh. 1089. Junck. 121. Lorry de melancholia, 2 v. 8. Par. 1765. Melancholia, *Sauvages*, II. 251; Daemonomania, 260; *Grant*, Med. comm. Ed. 11. 420. *Andry*, M. Soc. R. méd. II. 420. *Alderson*, Ed. med. journ. VI. 287; apparitions.

A. Wholly limited to one object. Melancholia, Pinel. 1. Melancholy. 2. Joyful. 3. Amorous. 4. Religious. 5. Indolent. 6. Restless. 7. Tedious. 8. Fanciful.

B. More general, but with more extravagance than want of judgment. Mania without delirium, Pinel.

3. *Mania universalis.* Mania, Cull. syn. lxvii; M. mentalis, 1; M. corporea, 2; M. obscura, 3. Schenk obs. p. 142. Amat. Lusit. II. n. 67. Locher de mania. Hofm. III. 251, 263. Boerh. 1118. Junck. 122. Puzos. Preysinger morb. cap. Mania, *Sauvages*, II. 264; Paraphrosyne, 264, is always symptomatic of some other affection.

A. Complete and violent madness, with a degree of permanence in the illusions. Mania with delirium, Pinel.

B. With rapid transitions, and great incoherence. Dementia, Pinel.

CLASS II.

PARHAEMASIAE.

SANGUINE DISEASES.

ORDER I. *PHLOGISMI.* FLUSHES.

XII. RUBOR.

Erubescence.

Distension of the minute bloodvessels, without immediate pain.

1. R. *fúgax.* Transitory blushing.
2. R. *priapis'mus.* Priapism.

1. *Rubor fugax.* Scarcely a disease; sometimes a symptom of erethismus or hysteria, often of dyspepsia, and, in this case, more permanent. Bichat considers blushing as depending merely on the sudden action of the heart, forcing the blood into the most distensible vessels: supposing this opinion true, the affection ought to be referred to the genus palmus.

2. *Rubor priapismus.* Dysspermatismus hypertonicus, Cull. syn. cxxv. 5. *Cockburn,* Ed. med. ess. I. 327; a symptom of this affection. Priapismus, *Sauvages,* I. 540. See Erethismus satyriasis, vi. 6.

XIII. INFLAMMATIO.

Inflammation.

Distension of the minute bloodvessels, considerably permanent and painful, independent of constitutional affection.

The nerves may, perhaps, be very materially concerned both in fevers and in inflammations; but it is impossible to ascertain how far they are actually concerned, and the affection of the bloodvessels affords the most obvious criterion of the diseases.

1. I. *phlegmon'ica.* With aching, throbbing pain; the part, if visible, being of a bright red colour. Not contagious. Phlegmonous.
2. I. *ustória.* With acute burning pain, not spreading beyond the part first affected. A burn or scald.
3. I. *erythéma.* With burning pain, and very little throbbing, having a tendency to spread rapidly. Scarcely contagious. Erysipelatous.
4. I. *specif'ica.* Generating a peculiar matter, differing from simple pus. Commonly contagious. Specific.

INFLAMMATIO. *Smyth*, Med. commun. II. 168; divides it as affecting the skin, the cellular membrane, serous membranes, mucous membranes, or muscular fibres. *Parry*, M. Med. soc. Lond. III. 77; compressing the arteries.

1. *Inflammatio phlegmonica.* Cullen classes all inflammations as fevers. *Beddoes*, Med. facts. IV. 148. Wedekind Theorie

der entzündungen. 8. Leipz. 1795. See pathogony, spontaneous cure, and Cauma, xv.

A. Of a muscle. Arthrodynia rheumatica? Cull. syn. xxii; Arthropyosis? xxv. See rheumatismus.

B. Of the integuments. Phlegmone, *Sauvages*, I. 144.

C. Of a vein. *Hunter*, Tr. soc. med. ch. kn. I. 18; Med. comm. Ed. III. 465; Sherwin, IV. 206.

D. Of an absorbent gland. Bubo, *Sauvages*, I. 145.

E. Of the eye. See I. specifica.

F. Of the nasal sinus. *Bordenave*, M. Ac. chir. IV. 329, V. 225.

G. Of the teeth or gums. Forest. XIV. n. 3, 4, 6, 7. Horst. opp. II. 98. Schelhammer de parulide. Jen. 1692. Hofm. II. 330. Junck. 25. Odontalgia, *Sauvages*, II. 73. Stoll prael. I. 391. II. 47. Theden N. bem. Berdmore on the teeth. Hunter on the teeth.

H. Of the tongue, often from concretions. Forest. XIV. 29. Stalpart. I. n. 20. Freeman, Lister, Phil. trans. See Emphragma.

I. Of the ear. Forest. XII. n. 1..6. Otalgia, *Sauvages*, II. 71.

K. Of the parotid gland. Parotis, *Sauvages*, I. 146.

L. Of the breast or nipple. Forest. XVII. 22, 23, 28. Mauriceau, I. 443, 495. Timaeus cas. p. 236.

M. Of the umbilicus. Mauriceau, I. 495.

N. Of the back or trunk. Forest. XXIV. n. 3. Ballon. cons. I. 28. *Morgagni*, ep. 16, art. 31; ep. 20, 21; de pectoris, laterum, et dorsi dolore.

O. Of the diaphragm. Barthol. hist. an. III. 50. *Morgagni*, ep. 70, art. 5.

P. Of the stomach? Fernel. Cons. XXVIII. Forest. XVIII. n. 4, 20..29, 39..41. Barthol. hist. an. III. n. 50. Bald. N. mag. VII. 273. See Dyspepsia, Hernia.

Q. Of the intestines? Galen loc. aff. VI. ii. Forest. XXI. n. 2..15. Horst. opp. II. 167. Ballon. cons. I. 5. Barthol. hist. an. IV. n. 11, 49; concretions. Willis an. brut. path. xv. Tulp. I. n. 59; concretions. Harris morb. ac. inf. Bagliv. pr. m. I. ix. Dover's legacy. Tronchin col. Pict. xii. Jenty, Mesaporitus, Cole, Thoresby, Huxham, Makerness, Martineau, Phil. trans.; mostly concretions. *Morgagni*, ep. 34, 35, de intestinorum dolore; ep. 37, art. 24; concretions often formed on gallstones; ep. 39, art. 30. Bajon, Journ. med. XXXIII; Amilhon, 1782. Wilmer's cases. Stoll rat. med. IV. 77. V. 281, 440; prael. II. 185. Gooch, Med. comm. Ed. II. 373; Scott, V. 465; Fitzgerald, VIII. 40; Bisset, IX. 65; mostly concretions. White's cases. Millon, Lond. med. journ. Many of these authorities afford rather illustrations than cases.

R. Of the liver. Forest. XIX. n. 12. Barthol. hist. an. II. 85. Grosmann, Balding. N. mag. XI. 519. See Cholelithia.

S. Of the spleen. Forest. XX. n. 7. Barthol. ep. II. 586. *Morgagni*, ep. 36, art. 14; ep. 65, art. 11; chiefly Phtharma, xxxvii.

T. Of the pancreas. Scarcely to be ascertained. *Morgagni*, ep. 30, art. 8; scirrhous. Baader observationes medicae. 1762. Haller el. phys. VI. 431. Lieutaud, I. Haen de deglut. i. Baillie und Sömm. 158. Vogels handb. IV. xiv.

U. Of the mesentery. *Morgagni*, ep. 39, art. 9; ecphyma.

X. Of the kidney. Forest. XXIV. n. 14, 15, 18. Cowper, Phil. trans. *Morgagni*, ep. 42, art. 13... Stoll rat. med. V. 443. Stack med. cas. See Lithiasis, 34.

Y. Of the bladder. Ramazzini opp. 338.

Z. Of the prostate. Trampels bemerk. 1. Murray de lue curanda. Ups. 1777. Stoll rat. med. I. 174. Baillie und Sömmering. *Baillie's* engr. 163; calculi.

AA. Of the penis. Forest. XXVI. n. 3. Monro, Ed. med. ess. V. ii. 495, 498. Vogels handb. IV. xxvi.

BB. Of the testis. Forest. XXVII. n. 3, 4; scrotum. *Petit*, M. Ac. chir. IV. 323; suppuration of the tunica vaginalis. *Golding*, Med. facts. VII. 62; with fever, almost an orchitis. Vogels handb. IV. xxv. *Baillie's* engr. 177. See Ecphyma, xlviii.

CC. Of the uterus. Forest. XXVIII. n. 28. .30, 81. Ballon. cons. II. 32. Barthol. hist. an. IV. 64. Stoll rat. med. V. 442. Med. comm. Ed. III. 57; Swan, VI. 234. Bouvet Journ. med. XLI. Hooper, Med. obs. inq. V. Willich, Richt. chir. bibl. V; Waiz, V. 550. A venere nimia, Lond. 1811. S.

DD. Of the anus. Forest. XXIII. n. 13. Plater. obs. II. 489. Proctalgia, *Sauvages*, II. 145. Theden N. bem. I. 113; from cold.

EE. Of the extremities. From cold. Chilblain. Forest. chir. V. n. 15. Timaeus cas. 266. Pearson's princ. surg. 153.

FF. About the nails. Whitlow. Forest. chir. V. n. 15. Glandorp de paronychia. 8. Brem. 1623. Fordyce surg. fragm. Hegner de paronychia. Bale, 1780. Theden N. bem. II. 236. Pears. princ. surg. 87.

2. *Inflammatio ustoria.* Phlogosis erythema 2, Cull. syn. vii. 2. Forest. XXXI. 8; chir. II. 16, 18. Godfrey's miscellanea vere utilia; cold. Heister chir. IV. xv. *Monro*, Ed. med. ess. V. ii. 497. *Spry* and *Huxham*, Phil. trans. 1756. 477; melted lead in the stomach. *Huxham*, Phil. trans. 1762. 517; lightning. Erythema ambustio, *Sauvages*, I. 138. *Henley*, Phil. trans. 1772. 131; lightning. Lowdell, M. Med. soc. Lond. I. 315; cold. *Cleghorn*, Med. facts. II. 120; vinegar, chalk, and poultices; sulfuric acid, of the same strength, did not succeed. Vinall Amer. Ac.; Med. facts. VII. 279; negative electricity. *Parkinson*, M. Med. soc. Lond. V. 62; spirits. Pears. princ. surg. 171. Kentish on burns. 2 v. 8. The workmen at Chatham sometimes cure themselves with sulfuric acid a little diluted, which makes a slough without much pain. W.

3. *Inflammatio erythema.* Erysipelas, Pears. princ. surg. 186; Oedema cum Erythemate, 323. See Cauma, xv, Erysipelas, xvi.

A. Simple.

B? Serous. Oedematous inflammation. J. Hunter; serum being thrown out in the second stage instead of lymph.

C. Carbunculous. J. Hunter. See Ecphyma, xlviii.

D. Coppery. J. Hunter.

4. *Inflammatio specifica.*

A. Local ophthalmia. Ophthalmia, Cull. syn. viii, is often without fever, and the presence of fever is not expressed in the definition of the genus, as in other genera of the same class; O. membranarum, 1; O. tarsi, 2. Taraxis Aëtii, Pauli Aeg. Forest. XI. n. 1..12. Hofm. Suppl. II. ii. *Morgagni*, ep. 13, de oculorum affectibus. Marigues, Vanderm. XXXVI. Armstrong dis. childr. Ophthalmia, *Sauvages*, II. 58. Lind. Stoll rat. med.; prael. I. 379, 383. II. 12. Bloch, med. bem. 106; from local syphilitic infection: see Sagar, ophthalmia gonorrhoica, Erndtel Warsov. illustr. and Schmucker wahrn. I. 301. Wemyss de ophthalmia; Webster m. pr. I. 137; "plerumque localis morbus est." *Dobson*, Med. comm. Ed. III. 411; febrile, emetics. Taube de oculorum inflammationibus. Gott. 1783. Trnka historia ophthalmiae. 8. Vienn. 1783. Richter anf. III. Reil mem. clin. I. i. Singeisen de ophthalmia a vitio ventriculi. Weim. 1786. Wilder de ophthalmia epidemica. Stuttg. 1787. Meckel et Pulvermacher dissertatio. Hall. 1788. Fest Winke. 8. Leipz. 1793. *Ware's* remarks. *Ware's* appendix. 8. Lond. 1795. *Hooper*, M. Med. soc. Lond. II. 328; orange and lemon juice; *Heynam*, V. 325; oil of turpentine. *Guthrie*, Dunc. ann. 1799. 473; sp. turp. Power on the Egyptian ophthalmia. 1803. Ware on the eye. 8. Lond. 1805; Ed. med. journ. II. 233; *Peach*, III. 52; Egyptian; *Wardrop*, 56; evacuating the aqueous humour. *Gibson*, 159; from leucorrhoea in the mother. Edmonston on ophthalmia. 8. Ed. 1806. Ed. med. journ. III. 211. Vetch on the Egyptian ophthalmia. 8. Lond. 1807; Ed. med. journ. III. 360; *Peach*, 395; Egyptian; *C. F. Forbes*, 430; epidemic; *Vetch*, IV. 151; in a moist air; 157; detection of counterfeit ophthalmia. Wardrop on evacuating the aqueous humour. 8. Ed. 1807; Ed. med. journ. IV. 361. *Ware* on purulent ophthalmy. 8. Lond. 1808; Ed. med. journ. IV. 362; *Vetch*, 447; *Simmons*, 283; purulent.

Serny on local inflammation. 8. Lond. 1809. *Goodlad, Ankers,* and *Lyall,* Ed. med. journ. VI. 15, 62, 67; purulent.

(See also Geach, Theden, Lange.)

See General works, Diseases of the eyes, and Dysaesthesia, iv.

(† Pyrexiae, ecphymatis, carcinomatis, ulceris, scrofulae, syphilidis, ectopiae symptoma.)

B. Gonorrhoea. Gonorrhoea impura, Cull. syn. cxxii. 2, *Peyronie,* M. Ac. chir. I. 425; dysspermatismus, a consesequence. Gonorrhoea syphilitica, *Sauvages,* II. 403, *Simmons,* Lond. med. journ. II. 233. Graham de gonorrhoea virulenta; Webster m. pr. I. 339. *Duncan,* med. comm. XII. 360. Tode Erleichterte kenntniss des trippers. 8. Copenh. 1790. B. Bell on gonorrhoea. 2 v. 8. Ed. Dunc. med. comm. XVIII. 165. *Robertson,* Dunc. ann. 1799. 455; succeeded by an affection of the eyes; uses acetate of zinc "with sulfuric acid," making sulfate of zinc and vinegar. Whateley on gonorrhoea. 8. Lond. 1801. Identities ascertained. 8. Lond. 1808; a gonorrhoeal ophthalmia, on Foot's principles. See syphilis, lxi.

XIV. PROFUSIO.

Profusion.

A simple effusion of blood from the capillary vessels.

1. Pr. *haemorrhag'ica.* An excretion of blood. "Passive haemorrhage."
2. Pr. *subcutánea.* An effusion of blood under the skin.

† Cauma haemorrhagicum, xv.

1. *Profusio haemorrhagica.* Passive haemorrhages, though confessedly without fevers, have often been considered by nosologists as mere varieties of those to which fever is essential; hence the synonyms are somewhat indistinct. Oribas. VI. xlvii. *Murray*, Ed. med. ess. II. 306, continuing 29 years. Mesaporitus, Phil. trans. Heberden, Med. trans. II. 530; bleeding examined, but not very satisfactorily; *Reynolds*, III. 217; lead with opium safe. Coghlan de plethora; Webster m. pr. I. 1. *Adair*, Med. facts. IV. 25; oil of turpentine. Odier, Dunc. med. comm. XVIII. 441; beech charcoal. *Binns*, M. Med. soc. Lond. IV. 348.

A. Cutaneous. Plater obs. III. 774? Ash, Phil. trans.; fingers. Musgrave, Phil. trans.; thumb. Westphal, Bald. syllog. II.

B. From the eye. Forest. XI. n. 12. Schenk. IV. n. 257. Sennert. Havers, Menghini, Phil. trans. Epiphora cruenta, *Sauvages*, II. 375.

C. From the nose. Forest. XIII. n. 10. 14; 12 pounds. Schenk. I. n. 188, 360, 368; II. n. 78. Wepfer obs. 907. Hae-

morrhagia plethorica, *Sauvages*, II. 285. Stoll rat. med. III. 21; prael. II. 94. Balding. N. mag. X. 323. *Hamilton*, Dunc. med. comm. XI. 337; vicarious.

D. From the ear. Schenk. IV. n. 257.

E. From the mouth. Hipp. int. aff. Plin. XXV. iii. Forest. XVI. 23. Plater. obs. III. 773; from the tongue. Horst. opp. II. 279; scorbutic. Barthol. ep. IV. 523; "from the sound of whetting a knife." Schenk. I. n. 403, 405; scorbutic; III. n. 158-9. Stalpart. I. n. 18; from the alveoli. Stomacace, *Sauvages*, II. 295; scorbutic.

F. From the lungs. Hippocr. dis. I. p. 451. Galen loc. aff. IV. v. Fernel. cons. 21. Forest. XVI. n. 11. .18. Bont. med. Ind. xii. Plater. obs. III. 785-6. Horst. opp. II. 140. Ballon. cons. I. p. 76; II. 52; III. 18, 36, 97. Schenk. II. n. 79. Bonet. sep. II. v, vi. Willis pharm. rat. II. i. c. 7. Bellin. morb. pect. 686. Bagliv. aff. hep. *Darwin*, Phil. trans. 1760. 526; occurring in the night, and avoided by awaking the patient. *Morgagni*, ep. 15, art. 22, 23; from concretions. Haemoptysis, *Sauvages*, II. 287. *Dickson*, Med. obs. inq. IV. 206; nitre. Stoll rat. med. I. 50. II. 12, 114...191. III. 11..22. IV. 520. V. 438; prael. II. 82. Duncan, p. 129. Med. comm. Ed. V. 164; *Jones*, XI. 302, 380; foxglove. *Moyle*, Lond. med. journ. VI. 252: a bronchial polypus or coagulum. *Rush*, M. Med. soc. Lond. II. 306; salt. Davidson, Med. facts. III. 68; abstinence from liquids. *Ross*, Dunc. ann. 1800. 380; nitre and an opiate. See cauma.

G. From the stomach. Hippocr. dis. II. p. 486. Gal. loc. aff. V. vi. Forest. XVI. n. 24, 25. XVIII. n. 18. Plater obs. III. 797. Horst. opp. II. 153. Ballon. I. 117, 152, 181, 190. Scultet. obs. 73. Barthol. hist. an. I. n. 19. Schenk. III. n. 56, 57, 66, 271. Tulp. II. 21. Marchettis, 97.

Ulloa, Phil. trans. *Morgagni*, ep. 36. art, 11; ep. 65, art. 2. Haematemesis, *Sauvages*, II. 296. Stoll. rat. med. I. 246. IV. 480. Perciv. essays; from electricity. Home clin. exp. *Marcard*, Med. comm. Ed. IV. 203; camphor. Baume, Journ. med. 1782. *Lucas*, Med. obs. inq. V. 73. Theden N. bem. II. 119. *Ploucq*. nosol. III. 75; from electricity.

H. From the stomach and intestines. Hippocr. dis. II. Navier, Varnier, Vandermonde. Haller, N. Comm. Gott. VIII. 2. Melaena, *Sauvages*, II. 332. Tissot on the morbus niger, by Burke. 8. Lond. 1776. *Key*, M. Med. soc. Lond. III. 554.

I. From the intestines in general, or perhaps from the liver. Haen rat. med. X. 310. Hepatirrhoea cruenta, *Sauvages*, II. 322. Bond, Med. obs. inq. I. 67; "a worm bred in the liver;" evidently a coagulum formed in the colon. Y. See Parasitismus, lxxvi.

K. From the haemorrhoidal vessels. Galen on bl. bile. Fernel. cons. 54. Forest. XXIII. 3, 5, 6. Horst. opp. II. 285, 296. Ballon. cons. II. 51. III. 98. Schenk. III. 157. Mauriceau, I. 147. Bagliv. opp. 826. *Morgagni*, ep. 32, de haemorrhoidibus. Haemorrhois, *Sauvages*, II. 323. Duncan, 88. Stoll rat. med. V. 441. Trnka historia haemorrhoidum. 3 v. 8. Vienn. 1794-5. Hildebrandt über die blinden hämorrhoiden. 8. Erl. 1795.

L. From the breast. Schenk. IV. n. 266.

M. From the urethra. Hippocr. int. aff. p. 540. Forest. XXIV. n. 5. .13. Plater. III. 841. Horst. opp. II. 213. Ballon. cons. I. 3. Barthol.; aloe. Barthol. hist. an. IV. n. 45. Schenk. III. ii. n. 257, 294; a worm. IV. n. 40 . VII. n. 124; cantharides. Sydenham. Stalpart, I. 80. Down-

man, Phil. trans. Hofm. II. 331. Junck. x. Ed. med. ess. V. lxxii; a worm. Lentin memor. 128. Haematuria, *Sauvages*, II. 300. Stoll rat. med. IV. 377; prael. II. 90. Fink gallenkr. 259. Theden N. bem. II. 79; accident. *Bland*, Lond. med. journ. IV. 282. *Stewart*, Dunc. med. comm. XIX. 332; periodical. *Home*, Phil. trans. 1796. 486; the coagulum dissolves slowly in the bladder into a powder, without putrefaction.

(† Typhi, lithiasis, vulneris, parasitismi symptoma.)

N. From the uterus. Hippocr. 567. Galen loc. aff. VI. v. Oribas. IX. xliv. Forest. XXVIII. n. 10. 18. Plater. III. 769. Horst. opp. II. 273, 278, 296. Ballon. cons. I. 12, 13. Barthol. hist. an. II. 42. Schenk. IV. 275. Mauriceau, passim. Stalpart. I. n. 76; in pregnancy. Freind emmenol. xii. Juncker. xiv. Pasta, Ed. med. ess. VI. 505. *Morgagni*, ep. 47, art. 8. Lentin, I. obs. 13. Menorrhagia, *Sauvages*, II. 306. Chalmers Carol. Stoll rat. med. V. 240; prael. II. 104, 381. Balding. N. mag. I. 401; Höpfner. VI. 320. Rigby's essay; see Dystocia, lxxvii. Leroux sur les pertes de sang. Wallis on injudicious bleeding. Guattani de aneur. Fink gallenkr. 254. Daly de menorrhagia; Webster m. pr. I. 73. *Denman*, Med. facts. I. 108; a membranous lining frequent in painful menstruation. *Copaine*, Med. facts. IV. 118; opiate clysters. Strack de una prae ceteris causa. 8. Berl. 1794.

2. *Profusio subcutanea.*

A. In broad irregular spots. Ecchymoma, Cull. syn. cxxx. Galen tum. x. Horst. opp. II. 445. Ballon. I. 73. Tulp. I. 55. Ruysch obs. 2? Werlhof opp. III. 748. Haen rat. med. VI. 4. §. 2. Ecchymoma, *Sauvages*, I. 130. Stark clin. obs. Macbride obs. inq. Theden N. bem. I. 20. II.

52. Rogert, Act. med. Havn.; Dunc. med. comm. XIV. 58.

B. In numerous round spots. Petechiae sine febre; *Ferris*, Med. facts. I. 79; *Aikin*, M. Med. soc. Lond. III. 393; with haemorrhage; *Garnett*, IV. 233; *Walker*, Dunc. ann. 1797. 231; *Albers*, 1802. 406. *Parry* on venesection in purpura? Ed. med. journ. V. 7. In this disease, the sulfuric acid is a powerful remedy, the citric ineffectual; in true scurvy, the reverse. Y.

C. In an internal cavity. Seldom occurs without laceration, and cannot be very easily ascertainable. Ed. med. ess. V. 56; in the pericardium. Haematocele. Forest. chir. VI. 32; from violence.

ORDER II. *PYREXIAE*. FEVERS.

PYREXIAE. Palladius de febribus. Gr. Lat. Leyd. 1745. Lommius de curandis febribus. 8. Rotterd. 1720; was long considered as classical. Ballon. I. 89; Cons. III. 55, 71. Sennertus de febribus. Willis de febribus. Sydenham methodus curandi febres. 8. Lond. 1666. Morton de febribus. 2 v. 8. Lond. 1692-4. Bellin. miss. sang. 247. White on bleeding in fevers. 8. Lond. 1712. Bagliv. pr. med. I. ix. Werlhof observationes de febribus. 4. Hanov. 1732; chiefly on cinchona. Torti therapeutice specialis. 4. Ven. 1755; minute subdivisions; cinchona throughout. Langrish's theory and practice of physic. 8. Lond. 1735; found the serum less abundant, and the crassamentum more viscid, in acute continual fevers, than in health; by correct experiments; see also Sauvages. Comm. Norimb. 1736. viii. §. 2; cold water much used in Italy. Elliot de crisibus. 8. Ed. 1746; Smellie thes. I. 319. Clutton on a new febrifuge. 8. Lond. 1748; seems to be muriatic acid, and perhaps muriatic ether. Huxham's works. II. Quesnay des fievres continues. 2 v.

12. Par. 1753. *Munckley,* Phil. trans. 1758. 609; bark in delirium. Haen febrium divisiones. 8. Vienn. 1760. Brendel opp. II. 161; division. Gregory's principles of curing diseases. *Morgagni,* ep. 49; de febribus. *Farley,* Phil. trans. 1768. 80; quassia; *Benevuti,* 189; cold. *Heberden,* Med. trans. I. 472; on warmth in eruptive fevers. Tode de duplici febrium indole. 8. Copenh. 1763. Drummond de febribus arcendis. 8. Ed. 1770; Smellie thes. III. 134. Senac de recondita febrium natura. 8. Par. 1759? Genev. 1770. *Grant* on fevers in London. 8. Lond. 1771, 1787. * *Selle* pyretologia. 8. Berl. 1773, 1789. Med. comm. Ed. II. 267; considered, in Germany, as a classical work: but the arrangement appears too artificial; many of the combinations being such as probably never occur in reality. *Jaubert,* M. Soc. R. méd. I. 529; exanthematic fever. Raymond de febribus Seelandiae; Balding. Syll. I; Med. comm. Ed. IV. 140. Westphal de limitandis laudibus vomitoriorum; Bald. Syll. II; Med. comm. Ed. V. 138. Rudolph de sanguinis missione in febribus putridis. 4. Gott. 1780. Quarin de febribus et inflammationibus. 8. Vienn. 1781. *Smyth,* Med. commun. I. 135; spiritus vitrioli dulcis. Weitz pyretologia. 2 v. 8. Vienn. 1784. *Sanden,* Lond. med. journ. IV. 289; cathartics. Moore's medical sketches. Balfour on the influence of the moon. 8. Edinb. 1785. Juncker. * Vogels handbuch. Wall on opium in fevers. 8. Oxf. 1786; Dunc. med. comm. XI. 216. Glass. Schraud. Clark on fevers; Dunc. med. comm. VII. 108. Drennan cautelae de venaesectione in febribus continuis; Webster m. pr. I. 425. Goldhagen de diagnosi febrium in primo stadio. Halle, 1784. *Stoll* aphorismi de cognoscendis et curandis febribus. 8. Vienn. 1786. Pratolongo delle febbri. 8. Gen. 1786; highly praised by Beddoes. *Jackson,* Lond. med. journ. VIII. 25; lunar influence; also *Lind,* 145. Alderson on contagion. 8. Hull, 1788. Elsner Beyträge. 8. Königsb. 1789. Jackson on the fevers of Jamaica. 8. Lond. 1791; Germ. by Sprengel, with additions. 8. Leipz. 1796. *Boag,* Med. facts. IV. 1; mercury. *Fordyce,* Tr. Soc. med. ch. kn. I. 1; causes. * *Fordyce* on fever. 3 v. 8. Lond. 1794..1803. Kramp Fieberlehre nach mechanischen

grundsätzen. 8. Heidelb. 1794. *Wright,* Med. facts. VII. 1. Ideler über die crisis, von Hebenstreit. 8. Bresl. 1796. Reil über die fieber. 8. Halle. 1796; " a masterly work." Beddoes. Jackson's outline of the cure of fever. 8. Lond. 1798. Beddoes on calculus. * *Wilson* on febrile diseases. 4 v. 8. Winch. 1799... Lond. 1803; Ed. med. journ. II. 72. Haygarth on the prevention of fevers. 8. Bath, 1801; Dunc. ann. 1802. 51. Stanger on the suppression of fever. 12. Lond. 1802; Dunc. ann. 1802. 79. *Brown,* Dunc. ann. 1802. 293; duration and crisis; see Preliminary essay. It appears, by calculating from the register here inserted, that in 296 cases of fever, the mean duration was 12 days; the mean of the days of admission is 6.45; the duration of the cases admitted on the first day, 8.8; 2d, 8.0; 4th, 7.3; 5th, 5.1; 6th, 7.0; 8th, 6.1, and 10th, 6.2; the terminations on the 8 critical days, the 3, 5, 7, 9, 11, 14, 17, and 20th, were to the terminations on the 10 intermediate days, as 8 to 5: that is twice as many for each day. Palloni sulle malattie febrili. Legh. 1804-5; Ed. med. journ. II. 83. Reich? 2 v. 8. Berl. 1805. Wilson on the nature of fever. 8. Worcest. 1807; Ed. med. journ. III. 461; *Wilson,* IV. 20; fever and phrenitis. Clutterbuck on the seat of fever. 8. Lond. 1807; Ed. med. journ. IV. 74. Beddoes on fever. 8. Lond. 1807? Ed. med. journ. IV. 82; bleeding extolled.

XV. CAUMA.

Inflammatory fever.

A frequent and usually a hard and full pulse; a dry hot skin; a whitish tongue; little prostration of strength; the urine high coloured, and a buffy coat on the blood. When the pulse is not full, it is small from the beginning.

1. C. *sim'plex.* Without local inflammation or affusion.
2. C. *haemorrhag'icum.* With a discharge of blood at an early period of the disease. Active haemorrhage.
3. C. *rheumatis'mus.* With pain of the muscles, or about the larger joints. Rheumatism.
4. C. *podag'ricum.* With pain and inflammation of a small joint, preceded by oppression and pain of the stomach. Fit of gout.
5. C. *phleg'mone.* With bright redness and pain of the skin.
6. C. *erythemat'icum.* With dull redness and burning pain of the skin, succeeded by scales or vesicles.
7. C. *rubéola.* With watery eyes, coughing, and about the fourth day an eruption of pimples; about the seventh a desquamation. Measles. Contagious.
8. C. *phrenítis.* With acute pain in the head, redness of the face and eyes, intolerance of light and sound, watchfulness, and delirium. Phrensy, brain fever.

9. C. *ophthalmítis.* With pain or inflammation of the eye or its appendages.
10. C. *otítis.* With severe pain in the ear, and deafness or confusion of sound.
11. C. *parotítis.* With pain and tumour of the parotid gland. Mumps. Contagious.
12. C. *odontal'gicum.* With toothache and swelling of the neighbouring parts.
13. C. *paristhmítis.* With pain and inflammation of the fauces, and difficulty of swallowing. Sore throat.
14. C. *catarrhále.* With stuffing of the nostrils, sneezing, cough, and generally a mucous expectoration.
15. C. *bronchítis.* With difficulty of breathing, a sonorous inspiration, and a ringing cough. Croup. Perhaps contagious.
16. C. *peripneumónia.* With an obtuse pain in the chest, difficult respiration, cough, and purple lips ; the pulse usually soft.
17. C. *pleurítis.* With an acute pain in the chest, especially during inspiration, a difficulty of lying on the side, and a painful cough.
18. C. *cardítis.* With pain in the region of the heart, when the epigastrium is pressed, (W.) anxiety, palpitation, and irregular pulse.
19. C. *peritonítis.* With pain and tenderness of the abdomen, which is most perceived in the erect posture ; the functions of the viscera remaining undisturbed.
20. C. *gastrítis.* With a burning pain in the stomach, increased by swallowing, vomiting of every thing which is taken, hiccup, and debility.

21. C. *enterítis.* An acute griping pain in the abdomen, with tension and tenderness; the pulse weak, the strength reduced.

22. C. *hepatítis.* With fullness, tenderness, and pain in the region of the liver, pain in the shoulder, and difficulty of lying on the left side.

23. C. *splenítis.* With heat, fulness, and tenderness in the left hypochondrium.

24. C. *nephrítis.* With pain in the kidneys and ureters, frequent micturition, vomiting, numbness of the thigh, and, in men, retraction of the testis.

25. C. *cystítis.* With pain and swelling of the hypogastrium, frequent micturition or ischury, and tenesmus.

26. C. *hysterítis.* With heat, pain, and swelling of the hypogastrium, vomiting, and tenderness of the os uteri.

(† Inflammationis symptoma.)

CAUMA. Synocha, Cull. syn. iv; Phlegmasiae, Cl. 1, ord. 2; Haemorrhagiae, ord. 4. Heberden, Med. trans. II. 500; on the buff coat. Johnston de phlegmasiis; Webster m. pr. I. 85. *R. Hamilton,* Dunc. med. comm. IX. 191; mercury and opium. Lappenberg de diathesi sanguinis inflammatoria. 4. Gott. 1783. *Lind,* Lond. med. journ. VIII. 43; mercury. Reyland von verborgenen und langwierigen entzündungen. 8. Vienn. 1790. *Yeats,* Dunc. ann. 1802. 394; calomel and opium.

1. *Cauma simplex.* Synocha, Cull. syn. iv. Synochus imputris, Galen diff. fev. II. Continens non putrida, Lomm. febr. 2. Sennert. febr. II. xi, synocha sanguinea. Sydenh. sect. 5. c. 1, 5, 2; p. s. ad tr. de hydr; febris pleuritica, synochus

rheumatizans, hiemalis. Hofm. II. 105. Junck. 57-8. Boerh. 728-9. Ephemera, *Sauvages*, I. 289; Synocha, 297.

A. Synocha simplex, Cricht. tab.

B. Synocha biliosa, Cricht. tab.

(† Autalgiae, scorbuti, dystociae symptoma.)

2. *Cauma haemorrhagicum.* Haemorrhagiae, Cull. syn. cl. 1, ord. 4. The active haemorrhages are not so distinct in their nature, nor so frequent in their occurrence, as to require a separate order in the system: nor is the part of the body from which the blood flows, sufficient to constitute a specific difference, since the symptoms vary but little with it; while, in local inflammations, they differ much more materially. Hofm. II. 194. Junck. 5. Clapham de haemorrhagiis; Webster m. pr, I. 20.

(† As a symptom of other caumata, occurs later.)

A. From the nose, commonly with flushing and headache. Epistaxis, Cull. syn. xxxvi. Hofm. II. 196. Junck. 6.

B. From the lungs, the blood being frothy, with a cough. Haemoptysis plethorica, Cull. syn. xxxvii. 1; H. vicaria, 5. Hofm. II. 202. Junck. 8. Boerh. 1198. Caw de haemoptoe; Webster m. pr. I. 51. *Davidson*, Med. facts. IV. 129; see profusio, xiv.

† Haemoptysis violenta, Cull. syn. xxxvii. 2; lacerationis vel vulneris symptoma; phthisica, 3, calculosa, 4, hecticae.

(† Peripneumoniae, rubeolae, variolae, dyspepsiae, hydropis symptoma.)

C. Vomiting of blood. Haematemesis, Cull. syn. II. p. 169.

(† Aneurysmatis, vulneris, venenationis symptoma.)

D. Bleeding piles. Haemorrhois fluens, Cull. syn. xxxviii. 3. Claxton de haemorrhoide; Webster m. pr. I. 61.

† Haemorrhois tumens, Cull. syn. xxxviii. 1, H. caeca, 4, belong to varix; H. procidens, 4, to prolapsus; and, if inflamed, to inflammatio, or C. phlegmone.

E. Excess of the catamenia. Menorrhagia rubra, Cull. syn. xxxix. 1. Hofm. II. 224. Junck. 14.

† Leucorrhoea, xxxvi. Dystocia abortus, haemorrhagica, lxxvii.

† Menorrhagia vitiorum, Cull. syn. xxxix. 4, ulceris, prolapsus symptoma.

3. *Cauma rheumatismus.* Rheumatismus acutus, Arthrodynia, Cull. syn. xxii. Ballon. opp. IV; opusc. 313. Dover's legacy; bleeding useless. Sydenham, V. vi. Lancis. hist. rheum. epid. Hofm. II. 317. Junck. 90. Boerh. 1490. Molineux, Phil. trans. *Monro,* Ed. med. ess. V. ii. 502; large bleeding. Clerk de rheumatismo. 8. Ed. 1746; Smellie thes. I. 355. *Morgagni,* ep. 57, de artuum doloribus. Rheumatismus acutus, *Sauvages,* II. 28. D. Monro arm. dis. Brocklesby arm. dis.; nitre. Störck ann. II. Haen, IV. iv. Swieten. V. *Fothergill,* Med. obs. inq. IV. 69; calomel and antimony for chronic rheumatism; Works. II. 164. Grant on fevers. Fordyce's fragments. Stoll rat. med. I. 2. II, III, especially de nat. dysent. V. 420. Lentin memor. 122. Med. comm. Ed. V. 398, 472. *Fowler,* Dunc. med. comm. VII. 272; tinct. guaiac. amm. Dillon de rheumatismo acuto; Webster m. pr. I. 241; Cowling de rheumatismo chronico; II. 301. *Percival,* Lond. med. journ. III. 392; cod liver oil. *Lanphier,* Dunc. med. comm. VIII. 314; electricity; *Johnstone,* IX. 388; rheumatic

palsy. Falconer on Bath waters. Theden N. bem. I. 130. *Dunc.* med. comm. XIII. 410; opium. *Sherson,* M. Med. soc. Lond. I. 221; electricity. *Dunc.* med. comm. XV. 367; with ischuria. Lentin on rheumatism and gout, Hufel. Journ. I, II; " excellent." Rothe. *Leeds,* Dunc. med. comm. XVIII. 331; chronic, cured by sarsaparilla. *Price,* M. Med. soc. Lond. IV. 389; antim. tartar. externally. * *Fowler's* reports on rheumatism. 8. Lond. 1795; Dunc. med. comm. XX. 211. Latham on rheumatism and gout. 8. Lond. 1796. *Patterson,* M. Med. soc. Lond. V. 321; epidemic. *Livingston,* Dunc. ann. 1801. 313; tourniquet. *De Roches,* Ed. med. journ. I. 154; opium. Haygarth's clinical history. 8. Lond. 1805. Ed. med. journ. I. 479; bark. *Dundas,* Medicoch. tr. I. 37; in the heart. *Kellie,* Ed. med. journ. IV. 179; arsenic. (See also Riviere, Huxham, Sarcone, Pringle, Home, Baldinger, Macbride, Buchan, R. A. Vogel, Clark, Tissot, Cotunni, Sims.)

† Arthrodynia, Cull. syn. xxii, chronic rheumatism, as distinguished by the relief instead of increase of pain produced by heat, is either a sequel of rheumatism, or if it exists wholly without original fever, an Inflammatio, xiii, 1, A, or an Autalgia, v, 1, M, N.

(† Erethismi, hysteriae, synochi, catarrhi, hecticae, ischuriae, dyspepsiae, aneurysmatis, hydropis, rachitidis, cariei, scorbuti, syphilidis, luxationis, lacerationis, parasitismi, dystociae symptoma.)

A. In the muscles of the chest. Rheumatismus acutus C. Cull. syn. xxii. Ballon. epid. I. Pleuritis spuria, Boerh. 878. Pleurodyne rheumatica, *Sauvages,* I. 683. Confounded by a modern author with peripneumonia notha.

B. In the loins. Rheumatismus acutus A. Cull. syn. xxii. Lumbago rheumatica, Sydenh. p. 170; Junck. 19; *Sauvages,* II. 138; Nephralgia rheumatica, 114.

C. In the hip. Rheumatismus acutus B. Cull. syn. xxii. Sennert. vi. Ischias rheumaticum, *Sauvages*, II. 144. *Fothergill*, Med. obs. inq. IV. 69.

D ? Arthropyosis, Cull. syn. xxv; with little fever, terminating in suppuration; allied to rheumatism, but belonging more properly to the genus Apostema, l. Chiefly the lumbar abscess. Lumbago psoadica, Lamothe. Haen rat. med. I. xxxii. Ledran Consultations. 8. 1765. Lumbago psoadica, *Sauvages*, II. 139; apostematosa, 140; ab arthrocace, 141; Ischias ex abscessu, 143. Fordyce pr. II. 70. Cheston app. n. 4, 5. B. Bell's surgery, IV. Tomlinson, Med. obs. inq. V. Tomlinson's miscellanies. A. F. Vogel chir. wahrn. II. 17. Schoenmezel obs. in Frank del. V. 169. Siebolds tageb. 18. Bell, Med. comm. Ed. III; Toll, VI. Meckels arch. I. 118. Vogels handb. IV. xviii.

4. *Cauma podagricum.* Podagra regularis, Cull. syn. xxiv. 1. See Podagra, xxxii.

† Podagra aberrans, Cull. syn. xxiv. 4, another Cauma induced by the gout.

5. *Cauma phlegmone.* Phlogosis phlegmone, Cull. syn. vii. 1. Galen swell. Junck. 20. Boerh. 370.

† Apostema l, Gangraena, lii.

6 ? *Cauma erythematicum.* Phlogosis erythema, Cull. syn. vii. 2. Galen tum. ix; to Glauc. II. i. Forest. chir. II. n. 1, 4. Sennert febr. II. xv. Hofm. med. rat. IV. i. 13. Haen febr. divis. Monro arm. dis. Erythema, *Sauvages*, I. 137. Stoll rat. med. II. 80; aph. 271. But it does not appear that a cauma was the original disease in all the cases in contemplation. See Inflammatio, xiii, and Erysipelas, xvi.

7. *Cauma rubeola.* Rubeola, Cull. syn. xxviii, Synocha morbillosa, Cricht. tab. Haly Abb. pr. III. i. Sydenh. iv. v. Morton de febr. infl. Hofm. II. 62. Junck. 76. Ed. med. ess. V. ii. Mead de variolis et morbillis. 8. Lond. 1747. Rubeola, *Sauvages,* I. 432. *Dickson,* Med. obs. inq. IV. 247, 256. *Lassone,* M. Soc. R. méd. III. 84. *Percival,* Med. obs. inq. V. 282. *Heberden,* Med. trans. III. 389. Lee de rubeola; Webster m. pr. I. 300. *Lucas,* Lond. med. jonrn. XI. 325. *Mossman,* Dunc. ann. 1797. 298; after typhus. *Willan,* cut. dis. (See also Willis, Huxham, Home, Fordyce, Ziegler, Stoll, Lentin.)

A. Pimples little prominent, confluent. Rubeola vulgaris, Cull. syn. xxviii, 1. Morbilli regulares Sydenh. Ed. med. ess. V. art. 2; with sore throat. Med. obs. inq. IV. 19, 20.

B ? Pimples more elevated, separate, with little or no catarrh. Nirles. Rubeola variolodes, Cull. syn. xxviii, 2. *Sauvages,* I. 435. Rubeola sine catarrho? Willan cut. dis. Perhaps this disease ought to constitute a distinct species, since it does not appear to secure the constitution from the true measles; but there is some doubt of the identity of the diseases described by the different authors.

B. With livid spots intermixed, and great debility, the fever approaching to typhus. Rubeola vulgaris 3, Cull. syn. xxviii. 1. Mathieu de febre maligna morbillosa. Strasb. 1768; Balding. syll. IV. *Watson,* Med. obs. inq. IV. 132. Selle. Rubeola nigra? Will. cut. dis.

8. *Cauma phrenitis.* Phrenitis, Cull. syn. ix. Hippocr. prorrhet. I. Plin. II. iii. Aët. I. iv. c. 13. Cauma, Alex. Tr. Forest. X. n. 1, 7. Willis an. brut. path. x. Hofm. II. 131. Junck. 63. Bagliv. pr. I. ix. Boerh. 771. Oliver, Phil. trans. *Morgagni,* ep. 7, de phrenitide, paraphrenitide, et delirio. Haen. rat. med. XVI. 128. Phrenitis, *Sauvages,* I. 458;

Cephalitis, 484. Stoll rat. med. II. 376. III. 173... Schroeder opusc. med. I. vi. Falkensohn de causa phrenitidis. Hall. 1772. *Fowler*? Med. comm. Ed. VI. 194; lightning. Timmermann de phrenitide. Kiel, 1778. Samml. med. wahrn. VIII. Bertram de phrenitide; Webster m. pr. I. 151. Goldhagen et Weinschenk de phrenitide. 8. Hall. 1785; how far idiopathic. Fischer in Hornsteins bemerkungen über die hirnwuth. Ed. 2. Giess. 1792. Aronsohn de phrenitide. Giess. 1790. Oberkamp de phrenitide. Heid. 1791. *Baillie's* engr. 215; dura mater. Paterson de hydrocephalo phrenitico. 8. Ed. 1803. *Boyle*, Ed. med. journ. VI. 420: temporal artery opened. (See also Frank, Quarin, Borsieri, Brendel, Saalman, Sarcone, Medicus, Pringle, Tissot, R. A. Vogel, Ferro eph. med. Rondolini; for surgical cases, Pott, Bell, Dease, Schmucker, Richter; on diseases of the brain in general, Wepfer, Greding, Lorry, Büchner, Albrecht, Gennari.)

B. Spreading to the spinal marrow. Frank de vertebralis columnae dignitate. 8. Pav. 1791. Vogels handb. IV. ii.

9. *Cauma ophthalmitis.* See Inflammatio specifica.

10. *Cauma otitis.* Otitis, Cricht. tab. Brotbeck de inflammatione aurium. Tub. 1667. Frank, Borsieri, Callisen, R. A. Vogel, Haas, Weiz, Ausz. für wund. XVI. 12. Vogels handb. IV. iv. See inflammation.

11. *Cauma parotitis.* Cynanche parotidaea, Cull. syn. x. 5. Galen to Glauc. II. 1. Ballon. cons. I. 81, 87. Fabr. ab Aquap. 43. Bagl. pr. med. I. ix. Gaspari Osservazioni. Ven. 1731. Tozzetti osservazioni, I. 176. Encyclopédie, art. Oreillons. Tissot avis n. 116. Russel oecon. nat. 114. Cynanche parotidaea, *Sauvages*, I. 493; Catarrhus Bellinsulanus, II. 36. *Hamilton*, Ed. trans. II. 59; Lond. med. journ. XI. 190. *Noble*, Ed. med. journ. IV. 304.

12. *Cauma odontalgicum.* Odontalgia, Cull. syn. xxiii. See Inflammatio, Autalgia.

13. *Cauma paristhmitis.* Galen comp. med. VI. ii, iii. Wedel de angina. Jen. 1716. Stalpart. I. 25. Hofm. II. 125. Junck. 30. Boerh. 798. *Monro,* Ed. med. ess. III. 341. Huxham on fevers and sore throat. 8. Lond. 1757; opp. I. *Morant,* Phil. trans. 1761. 264; spreading to the ear. D. Monro arm. dis. Stoll aph. 23; prael. II. 18. Theden N. bem. I. 179. *Recolin,* M. Ac. chir. IV. 429. Johnston, Med. comm. Ed. VI. 280; catarrhal. Elsner de angina catarrhali. Königsb. 1788. Mathaei et Elsner de angina. Kön. 1792. (See also Forestus, Swieten, R. A. Vogel, Fink, Lentin, Borsieri, Quarin, Frank, Störck.)

† Typhus scarlatina, xviii.

(† Dyspepsia, epiphorae, podagrae, dysenteriae, obstructionis symptoma.)

A. Chiefly of the tongue. Forest. XIV. n. 24. Jourdain malad. de la bouche. Meyer Abrahamson, Meckels N. arch. I. 65. La Malle, M. Ac. chir. V. Frank epit. II. 94. Elsner et Günther de glossitide. Kön. 1788. *Hayes* and *Lettsom,* M. Med. soc. Lond. II. 185. Beireis et Bode de glossitide. Helmst. 1791. Vogels handb. IV. v. (See also R. A. Vogel, Borsieri, Scheidemantel, Mertens.)

B. Chiefly of the tonsils. Cynanche tonsillaris, Cull. syn. x. 1; *Sauvages,* I. 487. Hoggart Toulmin de cynanche tonsillari; Webster m. pr. I. 99. M. Ac. chir. V. 423; on excision; 461; calculi.

C. Of the pharynx or oesophagus. Cynanche pharyngea, Cull. syn. x. 4; *Sauvages,* I. 492. *Odier,* Med. comm. Ed. III. 191; cynanche oesophagea.

D. Spreading into the upper part of the larynx, and causing hoarseness: laryngea. *Mainwaring*, Med. facts. I. 40; affecting the epiglottis.

14. *Cauma catarrhale.* Catarrhus a frigore, Cull. xl. 1. Where the fever is inflammatory throughout, there is no reason for removing a cold from the neighbourhood of sore throat and pleurisy, especially if we place haemorrhages in the same genus: there is often only an attempt to secrete mucus, "excretionis molimina," and in such cases a cold cannot with propriety be placed among the profluvia of Cullen. The contagious cold is generally attended by more debility in its latter stages. Forest. I. n. 8. Willis pharm. rat. II. 3. Camerarius de coryza sicca. Tub. 1688. Morton. Sydenh. opp. 64. Salmuth obs. I. n. 37. Hofm. III. 109. Junck. 28. Stenze de catarrhis asylo ignorantiae. Wittenb. 1735. Werlhof febr. Ed. med. ess. V. ii. art. 49. Huxham. *Whytt*, Phil. trans. 1758. 569; blisters. Fordyce de catarrho. 8. Ed. 1758; Smellie thes. II. 501. Monro prael. *Morgagni*, ep. 13, de catarrho; ep. 14, art. 21. Rosen; Hall. disp. pr. II. Catarrhus, *Sauvages*, II. 35, class 7. dolores. Mudge on colds and coughs. Grant. Stoll rat. med. III. 39. IV. 223. Nankivell de catarrho. 8. Ed. 1778; Webster m. pr. I. 312. Dixon, Dunc. med. comm. IX. 69. Barrow de catarrho. 8. Ed. 1785. Hufeland kinderkr. Beddoes on calculus. E. R. White on colds. 1807.

(† Rubeolae, variolae symptoma.)

15. *Cauma bronchitis.* Cynanche trachealis, Cull. syn. x. 3. The inflammation and membranous lining generally extend from the larynx to the bronchia. Dodon. obs. 18. Horst. obs. III. 1. Tulp. I. n. 51. Boerh. 801. Eller de cogn. morb. s. 7. Starr, Phil. trans. n. 495. Bergen, Act. N. Nat. Cur. II. 157. Ghisi, Lett. med. Crem. 1749. Cynanche trachealis, *Sauvages*, I. 491. Molloy, Rutty hist. weath. Russel

oecon. nat. 70. Hillary's Barb. 134. Home on the croup. Millar on asthma; asthma infantum. *Warren*, Med. trans. I. 407. Rush de asthmate infantum. Lond. 1770. T. Crawford de cynanche stridula. 8. Ed. 1771; Smellie thes. III. 210. M. Ac. chir. V. 539; supposed expectoration of pulmonary vessels. Mease de cynanche tracheali; Webster m. pr. I. 121. H. Soc. R. méd. II. 206. Johnston, Med. comm. Ed. VI. 280. *Dixon*, Dunc. med. comm. IX. 254. *Chambon*, M. Soc. R. méd. V. 81. Hamilton on female complaints. Michaelis de angina polyposa. Strasb. 1778. 1788; with ample literature; med. pr. bibl. I. 97; Richt. chir. bibl. V. 739. VI. 119, 128, 164. Lentin beytr. 298. Rosensteins kinderkr. Wilke; Sandif. thes. II. 352. Regnault, Journ. med. LVII. Bayley's cases, Lond. med. journ. *Field*, M. Med. soc. Lond. IV. 141. *Anderson*, Dunc. ann. 1798. 451; calomel. *Field*, M. Med. soc. Lond. V. 165. *Rumsey*, Tr. Soc. med. ch. kn. II. 25; epidemic, but not decidedly contagious. *Anderson*, Dunc. ann. 1799. 459; hydrargyrus muriatus mitis; *Archer*, 511; senega; Albers, 1800. 384. Cheyne on croup. 8. Ed. 1801. Dunc. ann. 1801. 212; *Anderson*, 1801. 388; mercurials. *Baillie's* engr. 29. *Smith*, M. Med. soc. Lond. VI. 74; emetics; ant. tart. gr. viii. zinc, sulf. gr. xv. aq. unc. iss. taken within 1¼ hour, in six parts. Badham on inflammations of the bronchiae. 12. Lond. 1808; Ed. med. journ. IV. 493; *Cheyne*, 441. *Cheyne's* pathology of the larynx. 8. Ed. 1809. Ed. med. journ. V. 454.

16. *Cauma peripneumonia.* Pneumonia peripneumonia, Cull. syn. xi. 1; Vomica, Empyema, sequels, referable also to Apostema. The softness of the pulse in peripneumony seems to show how much the character of the whole circulation depends on the action of the heart, the obstruction of the passage of the blood out of the right ventricle causing a modification not only of the contraction of the whole heart, but also of the pulsation throughout the body. Y. Stahl de peripneumonia. Erf. 1730. Hofm. II. 136. Junck. 67. Boerh. 820. *Morgagni*, ep. 20, 21, de pectoris, laterum, et dorsi dolore.

Huxham, I. 66. Peripneumonia, *Sauvages*, I. 495. Leith de pneumonia; Webster m. pr. I. 157. *Hicks*, Med. commun. I. 173; with emphysema, from an unknown cause. *Makary*, Dunc. med. comm. XVIII. 371. Ed. med. journ. IV. 331, V. 9; lungs condensed. See pleuritis, 17.

(† Colicae, hydrophobiae, hecticae, dyspepsiae, podagrae, epiphymatis symptoma.)

A. With considerable pain, and but little expectoration in the beginning. Peripneumonia pura sive vera, Cull. *Morgagni*, ep. 20, art. 30, 31. *Sauvages*, I. 495, sp. 1.

B. With great expectoration, and but moderate inflammatory symptoms. Peripneumonia notha Sydenh. s. 6. c. 4. Boerh. 867. *Morgagni*, ep. 21, art. 11. .15. Coze, Journ. med. 1790. Oct. Vogels handb. IV. vii. s. 20. (See also Huxham, Grant, Mezler, Stoll, Bordeu.)

C ? Erysipelas pulmonis Lommii.

17. *Cauma pleuritis.* Pneumonia pleuritis, Cull. syn. xi. 2. Literature of pleuritis and peripneumonia, Triller vom seitenstich, von Ackermann. 8. Frankf. 1786. Galen loc. aff. V. iii. Cael. Aurel. II. xiii. Willis pharm. rat. II. i. 8. Bellin. morb. pect. 639. Stahl de pleuritide. Erf. 1730. Hofm. II. 136; Suppl. I. 2. Junck. 67. Bagliv. pr. m. I. ix. Boerh. 875. Werlhof opp. III. 732. Verna de pleuritide. Zeviani della parapleuritide. Brendel. opp. II. 45. III. 171. Huxham on pleurisies. *Morgagni*, ep. 20, 21, de pectoris, laterum, et dorsi dolore; ep. 45, art. 16. Bianchi hist. hepat. I. 234. Wendt de pleuritide et peripneumonia. Gott. 1762; Sandif. thes. II. Pringle dis. arm. 147. Pleuritis, *Sauvages*, I. 466. Richter et Tattarinoff de pleuritide. Gott. 1768. Swieten, 913. Baronius de pleuripneumonia. Haller opusc. path. obs. 13. Lentin, I. 24. Monro arm. dis. Musgrave's Gulst. lect. Cleg-

horn's Min. 235, 247. Home's clin. exp. Schröder. opusc. med. I. iii. Gregory, Med. comm. Ed. I. 140. Tralles de abusu vesicantium in pleuritide. 8. Bresl.; Med. comm. Ed. VI. 262. Delius curatio pleuritidis. Erl. 1780. *Paxton*, Dunc. med. comm. VIII. 90; with effusion. Küster de peripneumonia. Hall. 1785. Strack theoria pleuritidis. 8. Mayence, 1786. Saalmann de pleuritide et peripneumonia. 4. Münst. 1789. Mursinna beob. II. Rahns arch. II. i. 33. Stoll rat. med. III. 8, 54. V. 402; aph. 40, 58, 61. Sachtleben über brustentzündungen. 8. Gott. 1790. *Baillie's* engr. 33. *Carden?* M. Med. soc. Lond. VI. 122; a tumour, with cough, pain, and dyspnoea. *Badham*, Ed. med. journ. I. 166; Maule, VI. 437. (See also Moreau, Tissot, Sarcone, Quarin, Störck, Borsieri, Frank, Ferro, Baillie und Sömmering.)

A. Pleuritis vera. Paraphrenesis pleuritica? *Sauvages*, I. 464.

B. Pleuritis mediastini. *Sauvages*, I. 469. Salius de aff. part. vi. Rondelet de morb. x. Hildan. I. n. 43. Freind, Hist. med. on Avenzoar. Verna, ix. Act. Bonon. II. 188. *Morgagni*, ep. 21, art. 46. Stoll aphor. 80. Haygarth, Med. obs. inq. III. 32.

C. Paraphrenesis diaphragmatica, *Sauvages*, I. 464. Galen loc. aff. V. iv. Sal. opusc. 262. Bellin. morb. cap. 496. morb. pect. 654. Stuven de phrenitide. Jen. 1724. Werlhof. III. 815. Zwinger de paraphrenitide. Basle, 1731. Werke de paraphrenitide. Schulze et Bezel de paraphrenitide. Hall. 1742. Segner de paraphrenitide. Gott. 1747. Huxham opp. Beelsnyder de inflammatione diaphragmatis. Utr. 1762. Haen rat. med. I. 7. III. 31. IX. ii. 7. Boerhaave et Swieten. Fein de phrenitide. Gott. 1765; Schröd. opusc. I. 6; Ebeling, Gott. 1771; II. vi. Stoll aph. 78. Aaskow, Act. Soc. Hafn. I. 205. Gattenhof dissertationes. Heidelb. 1791. I. (See also Frank, Quarin, Störck.)

D? Pleuritis pericardii, *Sauvages*, I. 470. Verna p. 77. Freind hist. med. 108. Salmuth. I. n. 13. Cull. syn. II. p. 107, note.

(† Epischesis, dyspepsiae, plicae, vulneris, parasitismi symptoma.)

18. *Cauma carditis.* Carditis idiopathica, Cull. syn. xiii. 1. Erysipelas pulmonis? Lomm. obs. ii. Senac du coeur. IV. vii. Berger de inflammatione cordis. Witt. 1717. Trécourt, Journ. méd. 1755. Meckel M. Berl. 1756. Carditis spontanea, *Sauvages*, I. 494. Stoll aphor. 81. Frank. Ferro eph. med. Hautesierck rec. II. 580. Nunn de carditide. Erf. 1788. Mortzfeldt, pr. Metzger, de carditide. Königsb. 1789. Störck, Sagar, Doeveren, Sachtleben, Walter, Baillie und Sömmering. *Baillie's* engr. 9. *Davis* on carditis. 8. Bath, 1808; Ed. med. journ. V. 354. *Crowfoot*, Ed. med. journ. V. 298; *A case;* VI. 448.

(† Vulneris symptoma.)

19. *Cauma peritonitis*, or *peritonaeitis.* Peritonitis, Cull. syn. xiv. Frank. Baillie und Sömmering. Hunter, Med. comm. Ed. III. 349; in childbed; also Selle N. beitr. III. 102. See Dystocia febrilis, lxxvii.

A. Peritonitis propria, Cull. syn. xiv. 1. Lieutaud hist. an. I. n. 3; n. 341; from Rayger. *Morgagni*, ep. 57. n. 20.

B. Peritonitis omentalis, Cull. syn. xiv. 2. Sennert. pr. III. iii. 8. Willis path. cer. ix. Boerh. 958. Retmann de omento. Strasb. 1753. Störck ann. med. I. 132. Worm de abscessu omenti. Erf. 1767. Epiploitis, *Sauvages*, I. 480. Ludwig anat. pathol. Swieten. Hulme on puerp. fever; Med. comm. Ed. I. 25; VII. 13. Halder de morbis omenti. 4. Gott. 1786. Selle N. beitr. I. 48. Vogels handb. IV. xvi.

C. Peritonitis mesenterica, Cull. syn. xiv. 3. Galen. loc. aff. V. vii. Sennert pr. III. iv. 3. Henrici et Nootnagel de abscessu mesenterii. Hall. 1712; Hallers streitsch. von Crell. III. 497. Stock et Eberhard de mesenterio. Jen. 1755. Hebenstreit de scirrho mesenterii. Hall. 1756. Enteritis mesenterica, *Sauvages*, I. 480. (See also Morgagni, Lieutaud, Baillie und Sömmering.)

20. *Cauma gastritis.* Gastritis, Cull. syn. xv. River. pr. m. IX. xi. Bonet. sep. III. vii. Eller de morbis xi. Hall. obs. xiv. n. 3. Lieut. hist. an. i. 74. Wepfer cic. aq. 224; from jalap; venenatio. Tralles de op. 231. Hofm. II. 121; opp. VI. *Innes*, Ed. med. ess. I. 283. *Morgagni*, ep. 49, art. 14. Gastritis, *Sauvages*, I. 476. Haen. rat. med. VI. 263. IX. 64, 119. XIV. 105, 130, 132. Stoll rat. med. I. 191. III. 384; aph. 95. Med. comm. Ed. V. 293. Hayman de gastritide; Webster m. pr. I. 182. Lind, Lond. med. journ.; arthritic. Johnston de gastritide. Ed. 1790. Bode de gastritide. Vogels handb. IV. xii. *Forbes*, Ed. med. journ. VI. 313; steam bath. (See also Baglivi, Meibomius, Störck, R. A. Vogel, Quarin, Pringle, Tissot, Sagar, Baillie und Sömmering.)

A. Gastritis phlegmonodea, Cull. syn. xv. 1. The usual form.

B? Gastritis erythematica, Cull. syn. xv. 2, rather an erysipelas.

(† Epiphymatis? herniae symptoma.)

21. *Cauma enteritis.* Enteritis, Cull. syn. xvi. Galen loc. aff. VI. ii. Sennert. III. ii. 1. ii. Ruysch obs. n. 91; from introsusception; perhaps such cases belong rather to inflammatio, the fever being symptomatic, supposing the primitive disease to be unknown. Hofm. II. 170; suppl. II. 2. Boerh. 959. *Peyronie*, M. Ac. chir. I. 693; a strangulation from adhesion; *Moscati*, III. 368; a strangulation. *Jenty*, Phil. trans. 1758.

550; cohering. Lieutaud hist. an. *Morgagni*, ep. 29, art. 10; ep. 34, 35, de intestinorum dolore; ep. 54, art. 12, 13; a rupture into the thorax; ep. 65, art. 8. N. A. Nat. Cur. IV. 56. Enteritis, *Sauvages*, I. 478. Haen rat. med. XI. 162; a rupture through the mesentery; XIV. 128. Stoll rat. med. I. 262. II. 376, 409; prael. II. 214; Aph. 99. White, Med. comm. Ed. I. 155; in childbed; III. 123; VII. 13; childbed; Dougall, IX. Rotboel et Rogert de inflammatione abdominis. Copenh. 1776. Hicks de enteritide; Webster m. pr. I. 195. Osianders denkwürdigkeiten. Voltelen, Abh. pr. ärtz. X. 431. Ferro eph. med. Selle N. beitr. I. 65. II. 46, 120; in childbed. *Willison*, Dunc. med. comm. XV. 355; with adhesions. *Mackittrick Adair*, M. Med. Soc. Lond. II. 236; with constipation. Vogels handb. IV. xiii. *Brown*, Dunc. med. comm. XVIII. 348. *Baillie*, Tr. soc. med. ch. kn. II. 144; part of the colon voided. *Baillie's* engr. 68; 71; ulcers. *Sanden*, Dunc. ann. 1801. 293; a portion discharged, probably from introsusception about an orange seed. *Rumsey*, Ed. med. journ. I. 64. (See also Quarin, Bang, Frank, Baillie und Sömmering.)

† Dystocia febrilis lxxvii.

(† Dyspepsiae, herniae symptoma.)

A. Enteritis phlegmonodea, Cull. syn. xvi. 1.

B ? Enteritis erythematica, Cull. syn. xvi. 2. With little vomiting, and some diarrhoea. Cullen says " sine vomitu," though " vomitus" is in the generic character.

22. *Cauma hepatitis.* Hepatitis acuta, Cull. syn. xvii. 1. Hipp. int. aff. 547. Galen loc. aff. V. vii; I. ep. comm. 3; isag. 146. Forest. I. n. 39; febris typhodes. Sennert. III. i. Bierwirth de hep. Leyd. 1706. Huxham, Phil. trans. 1724; bile expectorated. Hofm. II. 14. Junck. 66. Bagliv. pr. I. ix. Boerh. 914. Tacconi

de hepatis affectibus. Bologn. 1740. *Morgagni*, ep. 36, de tumore et dolore hypochondriorum; ep. 65, art. 9. *Smith*, Phil. trans. 1766. 92. Ferrein, Ac. Par. 1766-7-8. Hepatitis, *Sauvages*, I. 500; Anacatharsis biliosa. II. 382. David, Ac. chir. Prix. X. Schroeder de phthisi hepatica. Cheston's pathol. inq. III. ii; app. n. 12. Stoll aph. 81. *Heberden*, Med. trans. II. 143. Crawford on a disease of the liver; Monthl. R. 1772. Lind dis. of warm cl. Clark dis. of long voy. *Simson*, Med. comm. Ed. I. 94; bile expectorated. Portal, Ac. Par. 1777; Dunc. med. comm. X. 115. *J. Clarke*, Med. comm. Ed. V. 423. Aaskow, Act. med. Havn. II. Murray de hepatitide Indiae orientalis. 8. Gott. 1779. Willan de jecinoris inflammatione. 8. Ed. 1780. Elvert et Jaeger de hepatitide. 4. Tub. 1780; the gall bladder wanting. Scott de hepatitide; Webster m. pr. 1. 208. *Chisholm*, Dunc. med. comm. XI. 353; epidemic. Leake on diseases of the abdominal viscera. Saviard observations chirurgiques. Par. 1784. Weissenborn von den eitergeschwüren der leber. Erf. 1786. Girdlestone on hepatitis. 1787. Frank del. op. V. 183. Fontana dis. hot. clim. Schwarze; Auserl. abh. f. ärtz. XII. 195. *Wilkinson*, Lond. med. journ. X. 142. Clark, Dunc. med. comm. XIV; *Gordon*, XVIII. 326; bile expectorated. *Ludlow*, M. Med. soc. Lond. III. 137; hepatitic phthisis; *Jameson*, 573. *Baillie's* engr. 97; 101, 103; tubercles. *Lettsom*, M. Med. Soc. Lond. VI. 62; chronic, relieved. *A. Monro*, Ed. med. journ. I. 397; bile expectorated. *Duncan*? Ed. med. journ. IV. 187; jaundice from a hydatid. (See also Quarin, R. A. Vogel, Borsieri, Bianchi, Pringle, Lieutaud, Saunders, Baillie und Sömmering.) Case examined 24 March, 1812. John James, about 20, has for some months expectorated bile, and passed faeces without any; he was some time in Portugal, and was there supposed to have had a hepatitis. He was slightly salivated, and latterly took powerful cathartics, but without effect: his strength gradually declined, his cough increased, and his appetite failed. The common biliary duct, at its entrance into the duodenum, was completely blocked up by the coats of a hydatid: a considerable cavity in the right lobe of the liver com-

municated freely, through the diaphragm, with the lungs, in which was a still larger cavity: the whole was filled with bile, and with hydatids of various dimensions, all empty and flaccid except a very few. The lungs on the left side were tolerably sound. Bilious expectorations have very frequently been relieved by purgatives; and it has sometimes been found of advantage to order the bile to be swallowed (C.); but in this case the stomach rejected almost all liquids that were offered to it: sometimes opiates were given in pretty large doses, which might have been expected to release the obstructing substance, if it had been confined by any spasmodic stricture; and it is difficult to say what further mode of relief could have been employed, if the precise nature of the disease had been ascertained. Y.

A. Of the liver itself.

B. Of the gall bladder, often combined with cholelithia.

† Hepatitis chronica, Cull. syn. xvii. 2, when not a sequel of H. acuta, is an ecphyma, xlviii.

23. *Cauma splenitis.* Splenitis, Cull. syn. xviii. Forest. XX. n. 5, 6. Sennert. VIII. iv. 5. Junck. 67. Boerh. 958. Swieten. Pohl de tumore lienis. Leipz. 1749. *Morgagni*, ep. 34, 35. Splenitis, *Sauvages*, I. 503. Merk de anatomia lienis. Strasb. 1769. Giess. 1784. Ruckstuhl de morbis lienis. 4. Strasb. 1781. *Baillie's* engr. 119. *Drake*, Ed. med. journ. II. 409; probably a sequel. (See also Lieutaud, Frank, Baillie und Sömmering.)

24. *Cauma nephritis.* Nephritis idiopathica, Cull. syn. xix. 1. Hipp. int. aff. 540. Gal. loc. aff. VI. iii. Sennert. III. vii. 1. Wepf. obs. 897. *Morgagni*, ep. 42, art. 13. 28. *Lysons*, Phil. trans. 1762. 635; Dr. Bradley's case. *Sauvages*, I. 503. Lhoyd de nephritide; Webster m. pr. I. 226. Cheston's inq. ii. *Keir*, Med. commun. I. 127; kidney mistaken for hardened

faeces. Stoll aphor. 109. Troja on the diseases of the kidnies. Heer de renum morbis. Hall. 1790. Espenmüller de nephritide. Giess. 1790. Dessault Journ. I. *Carter*, Med. facts. VI. 85. *Baillie's* engr. 127. (" The best authors are Boerhaave and Swieten, Frank, Stoll, and Quarin: see also Lieutaud, Baillie und Sömmering." Vogels handb. IV. xxi.)

(† Podagrae, lithiasis symptoma.)

25. *Cauma cystitis.* Cystitis, Cull. syn. xx. Forest. XXV. n. 27, 28, 33. Sennert. III. i. 4. p. 8. Hofm. II. 157. *Gilchrist*, Ed. phys. ess. III. 471. Isermann de vesica urinaria. Leyd. 1763. Cystitis, *Sauvages*, I. 483. Stoll aphor. 113. Zuber de morbis vesicae. Strasb. 1771. Pohl de abscessu vesicae. Leipz. 1777. Troja dis. kidn. R. A. Vogel prael. Löflers beytr. I. II. Ploucquet de ischuria cystica. Tub. 1790. Desault Journ. I. (See also Frank, Lieutaud, Baillie und Sömmering.)

26. *Cauma hysteritis.* Hysteritis, Cull. syn. xxi. Forest. XXVIII. n. 41, 51. Sennert. morb. mul. Mauriceau, I. p. 419. iii. 11. Werlhof. III. 696. Hofm. II. 156. Kiesling de uteri post partum inflammatione. Leipz. 1754; Hallers beytr. von Crell, I. 471. Metritis typhodes, *Sauvages*, I. 481. Swieten, IV. Mohrenheims beob. II. Cheston, 55. White, Med. comm. Ed. I. 155; VII. 13. Brotherson de hysteritide; Webster m. pr. I. 237. Gebhard de inflammatione uteri. Marb. 1786. Sandifort, Arch. pr. arzn. I. 211. Voigtel semiologia obstetricia. Hall. 1792; with literature. Osianders denkw. I. Selle N. beitr. I. 48. (See also Frank, Sagar, R. A. Vogel, Chambon de Montaux, Mursinna, Müller, Morgagni, Lieutaud, Hamilton, Baillie und Sömmering.)

† Many of these references, and the species M. puerperarum, and M. lactea of Sauvages and Cullen, belong to Dystocia febrilis, lxxvii.

XVI. ERYSIPELAS.

Erysipelas.

The pulse frequent, not full throughout, with sleepiness or delirium, and an inflammation supervening, attended by a burning pain, spreading more or less along a membranous part.

Where the fever is completely inflammatory, the disease becomes a Cauma erythema.

1. E. *vesiculósum.* Commonly with some vesicles scattered over the inflamed part. Sometimes contagious.
2? E. *phlyctaenódes.* The inflammation being principally confined to the vesicles. Shingles.
3. E. *inter'num.* Accompanied by pain and derangement of an internal part.
4? E. *urticátum.* With red blotches appearing on the second day, most troublesome at night, and turning into scales.

1. *Erysipelas vesiculosum.* Cull. syn. xxxi. 1. Sennert. febr. II. xv. Sydenh. VI. v. Hofm. II. 98. Deslandes? H. Ac. Par. 1746; contagious; cuticle peeled. Erysipelas rosa, typhodes, pestilens, contagiosum, *Sauvages,* I. 449-52. *Walshman,* M. Med. soc. Lond. V. 182; in children. Dale de erysipelate; Webster m. pr. I. 254. *Duncan,* med. comm. XII. 360; a cathartic, opium, bark, and a fomentation of decoct. pap. with one sixth of spirit. *Bromfield* and *Garthshore,* Med. commun. II. 22, 28; native. *Fordyce,* Tr. soc. med. ch. kn. I. 243; throat. *Makary,* Dunc. med. comm. XVIII. 371. *Wells,* Tr. soc. med. ch. kn. II. 213; contagious.

(† Venenationis symptoma.)

2. *Erysipelas phlyctaenodes.* Cull. syn. xxxi. 2. Plin. XXVI. xi. Hofm. III. app. 426. Russel tab. gland. 124. n. 35. Erysipelas zoster, *Sauvages*, I. 452; Herpes zoster, 134. The "febricula" does not seem to be the original disease, and the whole affection is more properly a Cystisma, lviii.

3. *Erysipelas internum.* Gastritis erythematica, Cull. syn. xv. 2; with dark redness of the fauces. Cullen, from a theory which he has assumed, confines erysipelatous inflammation to parts covered by cuticle, not being aware that the human stomach is without cuticle.

4. *Erysipelas urticatum.* Urticaria, Cull. syn. xxxiii. Sydenh. VI. vi; erysipelatis species altera. Junck. 75. Meyzerey mal. arm. II. 251. Scarlatina urticata, *Sauvages*, I. 453. Is described as distinctly febrile, but probably differs little from the nettle rash, an Exanthisma, lvi.

XVII. SYNOCHUS.

Mixed fever.

The pulse at first hard and full, afterwards becoming small and weak, while the heat abates, the urine becomes less red, the furred tongue dark, the sensorial powers are impaired, and the strength is diminished. More or less contagious.

The limits between synochus and typhus can scarcely be laid down with perfect accuracy. Cull. syn. II. 78, note.

1. S. *simplex.* Without eruptions or tinge of the skin.
2. S. *icterodes.* With a yellow tinge of the skin.

3. S. *miliária.* With anxiety and sweating, succeeded by an eruption of small vesicles, disappearing in about two days.

4. S. *variola.* With vomiting and tenderness of the stomach; on the third day an eruption of pimples, which suppurate on the tenth, and then dry into crusts. Small pox.

5? S. *vaccina.* The symptoms of fever mild, a depressed cellular vesicle containing a transparent fluid, leaving a dark brown scab. Cow pox.

6? S. *varicella.* The symptoms of fever mild, about the fourth day an eruption of vesicles, which in three days burst and form scabs. Chicken pox.

These definitions, expressed in Latin, do not exceed the limits of Aph. 291; thus S. variola; ventriculi pressi dolor, die tertio papularum eruptio, decimo suppurantium, postea exarentium; S. vaccina; pyrexia lenis, vesicula depressa cellularis lympha plena, in crustam nigrofuscam abiens; S. varicella; pyrexia lenis, die quarto vesicularum eruptio, triduo disrumpendarum inque crustas abiturarum.

1. *Synochus simplex.* Synochus, Cull. syn. vi. Synochus, Galeni. Continens putrida, Lomm. Febris putrida, River. Febris depuratoria, 1661-4; continua 1665-7, 1673. Sydenh. morb. acut. Boerh. 730. Febris continua putrida, Wintringh. Comm. nosol. Synochus, *Sauvages,* I. 301. Bell de febre maligna anni 1779; Webster m. pr. I. 415. Probably not perfectly distinct from the next species.

B? Suette. See miliaria.

2. *Synochus icterodes.* Such appears to be the yellow fever

of N. America: that of the West Indies seems to be usually of a paludal kind, but it is difficult, in some cases, to distinguish the descriptions of different authors; and the existence of a separate typhus icterodes is still more uncertain. Hipp.? dis. II. p. 473; int. aff. 553; epid. IV. 1136; Coac. progn. n. 240. Forest. II. n. 6, 9, 14, 24. III. 19. V. 6, 7. Ballon. opp. I. 26. Williams and Bennet on the bilious fever. Lond. 1752. Hillary's Barb. 171. *Lining*, Ed. phys. ess. II. 370; with the black vomit; considered as contagious. Typhus icterodes, *Sauvages*, I. 314; contagious. Fink gallenkr. Tissot de febre biliosa. Beireis de febribus biliosis. Helmst. 1780. Curtin de febre flava; Webster m. pr. I. 401; W. I. "synochus biliosus." Schotte on the synochus atrabiliosa or contagious fever of Senegal. 8. Lond. 1782; Lond. med. journ. V. 260; commended by Vogel. * *Fink* von gallenkrankheiten. 1776-80. 8. Nur. 1787; orig. Lat. Münst. 1781. *Rait*, Dunc. med. comm. XIII. 313. Tissot de febribus biliosis. 8. Laus. 1790. Dunc. med. comm. XIX. 344; *Philadelphia.* Rush on the bilious remitting fever. 8. Philad. 1794; Dunc. med. comm. XX. 117. Chisholm on the fever introduced from Boullam. 8. Lond. 1795, 1801. Dunc. med. comm. XX. 81. Currie on the synochus icteroides of Philadelphia. 8. Philad. Dunc. med. comm. XX. 136. Clark on the yellow fever. 8. Lond. 1797; Dunc. ann. 1797. 155; distinguishes it from the bilious remittent, but thinks it produced without contagion. *Wilson?* 1800. 349; N. York. Dunc. ann. 1801. 447; in *Spain.* Rush, Med. repos. VI; Ed. med. journ. I. 342; not contagious. Prussian questions; M. Med. soc. Lond. VI. 610. *Stringham?* Ed. med. journ. I. 143; Philadelphia. Dalmas sur la fievre jaune. Par. 1805; "modest and instructive." Beddoes. Miller, N. York; see Anetus. * *Bancroft* on yellow fever. See Typhus icterodes, xviii, and Anetus, xix.

3. *Synochus miliaria.* The miliary eruption, though not altogether peculiar to this fever, sometimes seems to characterize a well marked epidemic. Miliaria, Cull. syn. xxxii. Welsch de novo puerperarum morbo. Leipz. 1655. Nova febris, Sydenh.

Sch. mon. Hamilton de febre miliari. 1710. Fontana, 1747. Fordyce, 1748. Allioni, 1758, Hofm. II. 68. Junck. 75. Werlhof. Haen rat. med.; febr. divis. Fischer de febre miliari. Riga, 1767. Collin ad Baldinger. 1764. Miliaris, *Sauvages*, I. 435. Grant, Stoll, Percival. *Baraillon*, M. Soc. R. méd. I. 193; *Varnier*, III. 281; *Aufauvre*, IV. 153. Gastellier sur la fièvre miliaire. Montarg. 1779. Quin de febre miliari idiopathica; Webster m. pr. I. 491.

β? Suette. Miliaris sudatoria, *Sauvages*, I. 441. *Tessier*, M. Soc. méd. II. 46; cured by bleeding and astringents. Meyzerey méth. aisée; mal. arm. 250. Boyer mal. epid.

4. *Synochus variola.* Synochus variolosus, Cricht. tab. Variola, Cull. syn. xxvi. Literature, Krünitz. 8. Leipz. 1768; enumerates 817 works; continued by Olberg, Literatur der blattern. 8. Hall. 1791; with a concise account of most. Haly Abb. Rhazes, Willis, Sydenham. Morton, very diffuse. Hofm. II. 49. Junck. 76. Baglivi. Boerh. 1371. Brendel. Mead de var. Freind. Helvetius sur la petite vérole. Werlhof. *Simson*, Ed. med. ess. V. ii. 579. *Bayly*, Phil. trans. 1751. 27; bark. Huxham. *Morgagni*, ep. 49, art. 33. Variola, *Sauvages*, I. 422. *Perkins*, Med. obs. inq. III. 37; air; *Huck*, 308; air. *Percival*, V. 270. Stoll, Med. comm. Ed. VIII. *Lassone*, M. Soc. R. méd. III. 84. *J. Hunter*, Phil. trans. 1780. 128; in utero, also *Wright*, 1781. 372. *Bland*, Lond. med. journ. II. 204; in pregnancy. Macknight de variola. Webster m. pr. I. 271. *Roberts*, Lond. med. journ. V. 399; *Wright*, VII. 63. *Hallé*, M. Soc. R. méd. VII. 423. Sarcone. *Helsham*, Dunc. med. comm. XIII. 284; followed by herpes; *Rait*, 313; 3 days after birth. C. L. Hofmann von den pocken. 2 v. 8. Mayence, 1789. *Hufeland* über die blattern. 8. Leipz. 1789. Berl. 1798; much commended. *Davidson*, Lond. med. journ. X. 353. Meza de variolis; Dunc. med. comm. XVI. 251. *Baker*, M. Med. soc. Lond. III. 538. *Fordyce*, Tr. soc. med. ch. kn. I. 1. *Pearson*, Dunc. med. comm. XIX, 213; in pregnancy.

Withers, M. Med. soc. Lond. IV. 186; a second time; *Kite*, 295; in pregnancy; *Turnbull*, 364; in utero; *Flinders*, V. 330; native. *Laird*, Ed. med. journ. III. 155; and *Forbes*, 307; in utero; *Wright*, IV. 123; cold water. *Jenner*, Medicoch. tr. I. 269; in utero; *Bateman*, II. 31; secondary. It is perhaps more necessary to apologize for the insertion of these references, than for the omission of many more; but the disease must not be wholly forgotten.

A. The pustules distinct and distended, the intervening spaces red, the fever ceasing when the eruption appears. Distinct small pox. Variola discreta, Cull. syn. xxvi. 1.

B. The pustules confluent, flaccid, the intervening spaces pale; with great debility. Confluent small pox. Variola confluens, Cull. syn. xxvi. 2. *Drummond*, Dunc. med. comm. XIV. 300; laudanum.

(C) Inoculation. Lady M. W. Montague's letters. *Brooke*, Phil. trans. 1752. 470; 1752. 503; at *Geneva*; *Brown*, 570. *Guiot*, M. Ac. Chir. II. 552. *Gilchrist*, Ed. phys. ess. II. 396. *Sloane*, Phil. trans. 1756. 516; Gale, 1765. 193. *Maty*, Med. obs. inq. III. 287; early. *Chais*, Phil. trans. 1768. 128; *Russel*, 140. *Baker*, Med. trans. II. 275; *Quier*, 366; Jamaica; *Rush*, Med. obs. inq. V. 32. *Dehorne*, M. Soc. R. méd. IV. 214; *Girod*, 231. Dimsdale on inoculation. 8. Lond. 1779. *Mackittrick Adair*, Dunc. med. comm. VIII. 211. Douglas de variolae insitione; Webster m. pr. I. 286. *Dawson*, Med. trans. III. 385; an affection merely local, producing small pox in others, but not securing the children. *Houlston*, Lond. med. journ. VII. 7; matter kept 13 years in a bottle lost its power; *Covey*, VIII. 1; *Werner*, XI. 140. Sutton's system. 8. 1796. *Kite*, M. Med. soc. Lond. IV. 114; *Whateley*, V. 159.

5. *Synochus vaccina?* * JENNER on the variolae vaccinae. 4. Lond. 1798; Dunc. ann. 1798. 77. *Jenner's* further observations. 4. Lond. 1799; Dunc. ann. 1799. 23. Pearson on the cow pox. 8. Lond. 1798; Dunc. ann. 1799. 1. Woodville on cow pox. 8. Lond. 1799; Dunc. ann. 1799. 33. *Chapman* on the cow pox. Dunc. ann. 1799. 315. *Pearson*, Dunc. ann. 1799, 318; on affections merely local. Aikin on the cow pox. 8. Lond. 1800; Dunc. ann. 1800. 171. Ring on the cow pox. 2 v. 8. Lond. 1801-3. *Bryce* on cow pox, pointing out a test. 8. Ed. 1802, 1809; Dunc. ann. 1802. 218; Ed. med. journ. V. 461. *Ja. Sims*, M. Med. soc. Lond. VI. 604. Adams on the cow pox. 8. Lond.; Ed. med. journ. I. 486. * *Willan* on vaccine inoculation. 4. Lond. 1806.; Ed. med. journ. III. 73. * *Repōrt* of the College of Physicians. 1807. *Johnston*, Ed. med. journ. II. 426. Report of the cow pox in Holstein; Ed. med. journ. III. 34. *Marshall*, M. Med. soc. Lond. VI. 80; origin from the horse.

† This disease, considered independently, might with more propriety be called an epiphyma, the fever being probably always symptomatic; but its obvious affinity to small pox renders it impossible to place it under a different genus.

6. *Synochus varicella?* Varicella, Cull. syn. xxvii. Heberden, Med. trans. I. 427. Swieten, IV. 10.

† Often without fever, and more properly an epiphyma.

A. Common chicken pox.

B. Swine pox. Pimples larger and more pointed.

XVIII. TYPHUS.

Typhous fever.

The pulse small, weak, and mostly frequent, the urine nearly natural, the sensorial powers greatly impaired, and the strength much diminished; the voice generally feeble and whining. The heat often considerably increased in the beginning.

1. T. *simplex.* Without well marked putridity. Nervous fever.
2. T. *pútridus.* With considerable putridity of the secretions, and generally petechiae. Putrid fever.
3. T. *biliósus.* With a yellow skin.
4? T. *aphthoidéus.* With white sloughs of the fauces, the tongue swoln and purplish. Thrush.
5. T. *scarlatina.* With a scarlet eruption, or dark sloughs of the fauces. Scarlet fever.
6? T. *vesiculáris.* With vesicular eruptions, which remain for several days, and then burst. Pemphigus.
7. T. *pestis.* With great weakness and tremor from the beginning, and generally with glandular swellings.

Typhus, especially *Typhus putridus.* Hipp. int. aff. 553; "typhus 1 et 2." Sauv. Fracast. morb. cont. II. vi. Forest. VI. n. 35-9. Typhodes, Prosp. Alp. Roboret febr. peric. Donckers id. febr. pet. Loew Act. Nat. Cur. II. app. Ramazzin. opp. 187. Bellin. morb. cap. 477. Hofm. II. 80; suppl. II. 1, 2. Stahl de malign. indol. Helwich Eph. Nat. Cur. Dec. 3. ann. 7, 8. p. 616. Adolph. cent. p. 3. 296. Dover's legacy; cold bathing. Rogers on ep. dis.

O'Connel de morbis. Valcarengh. med. rat. iii. Weitbrecht; Hall. diss. V. Ritter Act. Nat. cur. VII. obs. 4; Furstenau, obs. 5. Wall's works, 337. Brandhorst; Hall. diss. V. Pratolongo delle febbri che si dicono putride. 8. Genoa, 1786; disapproves the appellation putrid; extolled by Beddoes. *Pringle's* army dis. Swieten arm. dis.; comment. Hasenohrl hist. med. ii. Ludw. adv. I. i. Haen divis. febr. *Morgagni*, ep. 68, art. 2. Srack de morbo cum petechiis. Haller und Zimmermann, Hann. mag. 1773. Hallers beytr. von Crell, II. Brocklesby's obs. Monro's arm. dis. Hillary's Barb. Huxham's works. Typhus, *Sauvages*, I. 108. Störck ann. med. *Crell*, Phil. trans. 1771. 332. Macbride's introd. Ball on fevers. Langswert hist. morb. epid. Zimmermann in Bucholz Nachrichten. Weim. 1772. Schröder opusc. ed. Ackermann. Lind. dis. Europ. Clark dis. hot clim. Grant on fevers; new observ. *Percival*, Med. comm. Ed. I. 306; injecting fixed air. Aepli bös. fieb. Closset, Wien. beytr. II. 53. Bonté, M. Soc. R. méd. I. 23. Maret Memoire, 1775. Fournier obs. sur les fievr. Ciera de febre nosocomiali. Mil. 1779. Fahner de causis et signis malignitatis. Jen. 1780. Rigler constitutiones epidemicae. Bresl. 1780. Fearne de typho; Webster m. pr. I. 374. Lettsom acc. dispens. Sims on epid. dis. Mertens obs. de febr. Quarin meth. med. feb. iv. Bang. Act. Soc. med. Havn. II. Balding. kr. arm. Stoll rat. med.; aph. 237, 271. Tissot avis; lettre a Zimmermann. Sarcone Nap. Finck de morb. bil. anom. Fritze med. ann. Weikards kl. schr. 14. Pezold von faulf. Sagar historia morbi epidemici. 8. Leipz. 1783. Kessler Geschichte der faulfieber. Gessner med. samml. Oberkamp de prophylaxi. Balding. N. mag. III. 358. *Wright*, Lond. med. journ. VII. 109. *Campbell* on typhus. 8. Lond.; Dunc. med. comm. XI. 195. *May*, Lond. med. journ. X. 117; approaching to synochus. Balfour on putrid fever, and lunar influence. 8. Edinb.; Dunc. med. comm. XV. 260; *Brandreth*, XVI. 383, and *Halls*, XX. 327; washing. Selle N. beitr. I. 72. III. 75. *Harrison*, M. Med. soc. Lond. IV. 107; cold water and vinegar. Currie's reports. Haygarth on the prevention of infectious fevers. 8. 1801. Eisfield on an

acute typhus. Leipz. 1801. Stanger on contagious fever. Lond. 1802. *Scott*, Dunc. ann. 1802. 358; cold water. *Dimsdale's* cases of typhus. 8. London; Dunc. ann. 1802. 435. Wake de typho. 8. Ed. 1807; Ed. med. journ. IV. 117; gestation. Jackson on the affusion of cold water and gestation. 8. Ed. 1808; Ed. med. journ. V. 112. *M'Grigor*, Ed. med. journ. VI. 19; typhus from Spain; Chisholm, 389; animal effluvia not injurious except when confined, but then capable of producing a malignant fever not contagious. * *Bancroft* on yellow fever. 8. Lond. 1811. (See also Bilguer, Mead, Alexander, Wintringham, Home, Fordyce, Langrish, Fothergill, Riedel, Schobelt, Jagemann, Buchholz, Fauken, Opitz, Mursinna, Alderson, Campbell.)

1. *Typhus simplex.* Typhus petechialis 1, mitior, Cull. syn. v. 1. Fracastor. morb. cont. II. iv. Forest. VI. n. 26, 32. Willis morb. conv. viii; lues *νευρωδής*. Sydenh. sched. monit.; febr. nov. 1685. Wintr. comm. nosol. 1720, 1721. Huxham fev. viii; slow nervous fever. Ed. med. ess. II. n. xviii. *Gilchrist*, IV. 357. V. ii. 505. *Knight*, Med. obs. inq. I. 35; watching the pulse in sleep. Typhus nervosus, *Sauvages*, I. 311; comatosus, 312; Tritaeophya typhodes Mangeti, 340; Raym. Fort. de febr. 24. Macbride, 304. M. Soc. R. méd. I. 23. Lind on fevers; contagious fever. Herz de febribus nervosis. 8. Berl. 1789. Röderer de morbo mucoso. Brandis Journ. erfind. V; Dunc. ann. 1796. 73; tepid bathing. *M'Gregor*, Dunc. ann. 1798. 340. *Falconer*, M. Med. soc. Lond. VI. 1; morbus cardiacus of the ancients; a learned and elaborate dissertation.

† T. scarlatina D.

B? The sweating sickness. Ephemera sudatoria, *Sauvages*, I. 294. Caius de ephemera. 8. Lond. 1721. Bacon Henr. VII. Forest. VI. n. 8; hidronosos. Sennert. IV. 15. R. Fortis; ephemera Anglica pestilens. Junck. p. 468. Ed. med. journ. IV. 464.

2. *Typhus putridus.* Typhus petechialis 2 gravior, Cull. syn. v. 1. Sal. Divers. de febr. pest. Alpin. med. Aeg. I. xiv. Sennert. febr. IV. x, xiii. River. XVII. 3. i. Willis febr. xiv. Hofm. II. 75, 84. Junck. 72, 73, 74. Huxham de aer. 1740; febris nautica; 1742, in carceribus genita; on fevers. viii; petechial. Med. obs. inq. II. n. 21. Maius et Koph; Scrincus; Haller diss. V. Ludwig inst. med. clin. n. 146. Eller de morbis. vi. Schreiber erk. und cur, 126. *Pringle* dis. arm. 294; Phil. trans. 1753. 42. *Taitherell*, Ed. phys. ess. II. 420; with pustules. *Lecat*, Phil. trans. 1755. 49. Swieten mal. arm. 136. *Ward*, Phil. trans. 1758. 699; on the black assizes. Typhus carcerum, *Sauvages*, I. 309; castrensis, Aegyptiaca, 313; Miliaris nautica, 444; purpurata, 445; Cephalitis epidemica, 486. Mertens obs. i. iii. *Robin* de Keriavalle, M. Soc. R. méd. II. 53; *Tessier*, III. 23; *Galeron*, 41, Jeanroy and Lalouette, 45. Cera de febre nosocomiali; extolled by Beddoes. *Dr. J. Hunter*, Med. trans. III. 345; not observed in warm climates, from the free ventilation. *Janssen*, Lond. med. journ. IV. 74; fixed air. *Fordyce*, Tr. soc. med. ch. kn. I. 243; a case. Smyth on the jail distemper. 8. Lond. 1795; Dunc. ann. 1796. 81. Hoven geschichte eines epidemischen fiebers. 8. Jen. 1795. (See also Gesenius, Röber, Weber.) See Typhus in general.

3. *Typhus biliosus.* Typhus icterodes, Cull. syn. v. 2; *Sauvages*, I. 314. " Hillary's Barb. Warren on the fever of Barbadoes. Lining, Ed. phys. ess. II. Mackittrick de febre flava Ind. occ. Ed. 1766." Arejula de febre epidemica Malagae, a Frank. 8. Vienn. 1805; Ed. med. journ. I. 447; " typhus icterodes."

4. *Typhus aphthoideus.* Aphtha infantum, Cull. syn. xxxv. Pemphigodes, Gal. def. P. Aeg. I. x. Sennert. II. 1. xviii. Mauriceau, III. xxxiv. Hofm. II. 478. Junck. 137. Boerh. 978. Aphtha, *Sauvages*, I. 455. The fever is sometimes more like synochus, and sometimes absent: see ecphymata.

(† Pyrexiae alius, syphilidis, scorbuti symptoma.)

4. *Typhus scarlatina.* Morton febr. scarlat. Sydenh. Junck. 75. Werlhof. III. 731. Douglas on an epidemic. 8. Boston. N. E. 1736; bleeding pernicious. Scarlatina, *Sauvages*, I. 453. *Withering* on the scarlet fever. 8. Lond.; Med. comm. Ed. VI. 279. Vogel de febre scarlatina. Frib. 1783. Sims, M. Med. soc. Lond. I. 388. Grundmann Abriss. 8. Gera, 1788. *Ramsay*, Lond. med. journ. X. 7. *Johnstone*, M. Med. soc. Lond. III. 355; *Ja. Sims*, V. 415. Braithwaite, Ph. mag.; Dunc. ann. 1803. 487; oxymuriatic acid. Blackburn on scarlet fever. 8. Lond. 1803. *Binns*, Ed. med. journ. III. 135. (See also Stoll, Lentin, Stark.)

A. Without sore throat, and with little prostration of strength. Scarlatina simplex, Cull. syn. xxix. 1. Sydenh. VI. ii. Scarlatina febris, *Sauvages*, I. 453. M. Soc. R. méd. I. 10.

B. With sore throat, but with little prostration of strength. Scarlatina cynanchica, Cull. syn. xxix. 2. Scarlatina anginosa, *Sauvages*, I. 454. *Lettsom*, M. Med. soc. Lond. IV. 280. *Mossman*, Dunc. ann. 1799. 422; cold water.

C. With gangrenous sore throat, throwing off grey sloughs, and great prostration of strength. Cynanche maligna, Cull. syn. x. 2. Hipp. progn. I; dry sore throat. Syrian ulcer? Aret. Pestilent tonsils, Aët. Panarol. pentec. 5. Mercat. cons. 24. Douglas epid. Bost. *Colden*, Med. obs. inq. I. 211. Russel Oecon. nat. 105. Wall's works, 58. Rabours de ulcere tonsillarum. 1749. Fothergill on the ulcerous sore throat. 8. Lond. 1751. Huxham on the malignant sore throat. Marteau, Journ. méd. 1756. Boucler, Vanderm. 1758. Swieten. Withering de angina

gangraenosa. Ed. 1766: see T. scarlatina in general. Cynanche maligna, *Sauvages*, I. 489. Bard's inquiry. New York, 1771. Johnstone on the malignant angina. 8. Worcest. 1779; Med. comm. Ed. VI. 267. Tailour de cynanche gangraenosa; Webster m. pr. I. 466. *Stephen*, Dunc. med. comm. XII. 375; capsicum. *Collins*, Med. commun. II. 363; capsicum. *Crichton*, Dunc. ann. 1796. 318.

† D. A disease arising from the contagion of scarlatina, but without either eruption or sore throat. Gourlay on Madeira, 125. I have also observed some fatal cases of this kind. Y. Jarvis, Medicoch. tr. II. 235; describes a disease equally sudden, without the existence of any epidemic that was observed; perhaps from poison.

6. *Typhus vesicularis.* Pemphigus, Cull. syn. xxxiv. Galen epid. VI? C. Pis. obs. 147, 150. Eph. Nat. Cur. Dec. 1. ann. 8. obs. 56. Morton exerc. ii. app. Thiery med. exp. 134. Langhans, Act. Helv. II. 260; Beschreibung des Siementhals. Zur. 1753. Pemphigus, *Sauvages*, I. 430. *Stewart*, Med. comm. Ed. VI. 79. Busch, Balding. N. mag. X. 230; fatal. Fink gallenkr. 187. Burser. inst. II. *Dickson*, Trans. Ir. ac. I. 1787. 47; Dunc. med. comm. XV. 86; Lond. med. journ. IX. 309; *Christie*, X. 361; *Ring*, XI. 234. *Blagden*, Med. facts. I. 105; Winterbottom, III. 10. *Upton*, M. Med. soc. Lond. III. 532. Braune über den pemphigus. 8. Leipz. 1795. *Hall*, Dunc. ann. 1798. 386. 1799. 328.

† Pompholygmus pemphigus, lvii, without original fever.

7. *Typhus pestis.* Pestis, Cull. syn. xxx. Pr. Alp. med. Aegypt. Mindererus de pestilentia. 8. 1619; Germ. 8. Riga, 1790. Willis febr. xiii. Diemerbroeck de peste. Hodges loemologia. 8. Lond. 1672. Sydenham. Ramazzini. Journal de la contagion a Marseille. 12. Par. 1721. Muratori del governo

della peste. Bresc. 1721. * *Smith* Massa de peste contractus, cum Diomede et Mead. 8. Lond. 1721. Mead on the plague. 8. Lond. 1744. Hofm. II. 93. Junck. 78. Chamberlayne, Cousier, Deidier, Phil. trans. Waldschmidt; Hall. diss. V. Heister de peste. Helmst. 1744. *Mackenzie*, Phil. trans. 1752. 514. Weszpreme de inoculanda peste. 8. Lond. 1755. *Maty* and *Porter*, Phil. trans. 1755. 96. Chenot de peste Transylvanica. *Dawes*, Phil. trans. 1763. 39; *Mackenzie*, 1764. 69. Haen rat. med. XIV. Huxham's works. Unterricht gegen die pest. Danz. 1770. Butzow de contagio pestilentiali. Leyd. 1777. Samoilowitz sur la peste de Moscou, 1771; sur les frictions glaciales; sur l'inoculation de la peste. Mertens de peste. 12. Vienn.; Med. comm. Ed. VI. 162. *Guthrie*, Dunc. med. comm. VIII. 345; case of inoculation. Thomas de peste; Webster m. pr. I. 436. Howard on lazarettos. 4. Lond. Russell on the plague. 4. Lond. 1791. Lange de peste. 8. Offenb. 1791. Assalini on the plague. 8. 1804. Gillam, Ed. med. journ. II. 182; fancies small pox prevents plague. Jackson's Marocco; Ed. med. journ. VI. 459.

XIX. ANETUS.

Paludal fever.

An intermitting or remitting fever, not contagious, with well marked exacerbations; usually periodical.

The cause of such fevers appears to be exclusively the exhalation from half dry mud.

1. A. *quotidiána*. The paroxysms recurring daily, and commonly in the morning.
2. A. *tertiána*. The paroxysms recurring at the interval of about two days, commonly about noon.

3. A. *quartána.* The paroxysms returning once in three days, commonly in the afternoon.

4. A. *errat'ica.* With paroxysms either irregular, or at longer periods than three days.

These species are constituted in imitation of Dr. Cullen's genera; but, in fact, they often pass into each other, and are not more distinct than the intermittent and remittent type, or the simple and the bilious: and it will be most convenient to class most of our modern references under the heads Intermittents of temperate climates, Remittents of hot climates, and Yellow fever, W. I.

ANETUS. Intermittentes, Cull. syn. cl. 1, ord. 1, sect. 1. Continuae periodicae, Sennert. febr. II. xiii. Continentes, Morton ex. ii. Boerh. 727. Junck. 82. * *Torti* ther. spec. V. i. (See also Collin, Cole, Werlhof, Senac, Grainger, Medicus, Cleghorn, Monro, Pringle, Brocklesby, Grant, Baldinger, Lyson, Störck, Nicolai, Lautter, Stoll, Rahn.) Intermittens.) Muys de salis ammoniaci usu. 4. Franck. 1716. *Thomson,* Ed. med. ess. IV. 406. *Stone,* Phil. trans. 1763. 195; willow bark. *D. Monro,* Med. trans. II. 325. Trnka historia febrium intermittentium. 8. Vienn. 1775. *Causland,* Dunc. med. comm. VIII. 247; emetic tartar and opium. *Hayes,* Lond. med. journ. II. 267. *Baker,* Med. trans. III. 141. Brandreth de febribus intermittentibus; Webster m. pr. I. 352. *Chapman,* Med. commun. I. 260; with pulmonary complaints. Buchhave de gei utilitate. 8. Marb. 1786. *Willan,* Lond. med. journ. VIII. 191, and *Jenner,* IX. 48; arsenic. Strack de febribus intermittentibus. 8. Offenb.; Dunc. med. comm. XII. 119; *Davidson,* XV. 391; affecting the right temple. Hoven über das wechselfieber. 2 v. 8. Winterth. 1789. *Kellie,* Dunc. med. comm. XIX. 271; tourniquet. *Beddoes,* Med. facts. VII. 26; origin. *Russel,* Tr. soc. med. ch. kn. II. 90; in utero; the fit came on before the mother's; it was cured a little earlier. Gilbert, Rec. pér. XVII; Dunc. ann. 1803. 246; gelatine, also Gautiere, Hufel.

journ.; Ed. med. journ. II. 479. Dawson on the Walcheren disease. 8. Ipsw. 1810; Davis on the fever of Walcheren. 8. Lond. 1810; Ed. med. journ. VI. 338. Remittens.) Home de febre remittente. 8. Ed. 1750; Smellie thes. I. 435. *Oliphant*, Med. obs. inq. I. 62; *Vage*, II. 269. Lind de febre remittente. 8. Ed. 1768; Smellie thes. III. 116. *Badenoch*, Med. obs. inq. IV. 156; bilious; Sandiford, 305; putrid; *Rush*, V. 32; bilious; bark, not bleeding. G. Monro on bilious remitting fevers in Martinique; Med. comm. Ed. V. 254. *Ryan*, Lond. med. journ. II. 253. III. 63. At *Bussorah*, Tr. soc. med. ch. kn. I. 53. *Winterbottom*, Med. facts. VI. 1; arsenic. *Chisholm*, Dunc. med. comm. XVIII. 267. *Fowler*, Dunc. med. comm. XIX. 337; arsenic. M'Lean on the fever of St. Domingo. 8. Lond. 1797; Dunc. ann. 1797. 184. *Beane*, M. Med. soc. Lond. V. 333. *Chisholm*, Dunc. ann. 1800. 407; with palpitation, supposed to be from a polypus. *Fergusson*, Medicoch. tr. II. 180; mercury. Icterodes.) *Curtin*, Dunc. med. comm. IX. 236. *Maclarty*, Dunc. ann. 1796. 328; mercury; *Todd*, 334. Anderson on yellow fever. 8. Ed. 1798; Dunc. ann. 1800. 38; properly a remittent; another species the typhus icterodes. *Miller*, Ed. med. journ. III. 276; N. York, 1806; supports miasmata against contagion with great labour and ingenuity. *Blane's* letter; Ed. med. journ. III. 385. *Dickson*, Ed. med. journ. IV. 458; *Henderson* on the prevention of the yellow fever. 8. 1808; Ed. med. journ. V. 373; by mercurials. Chisholm's letter to Haygarth. 8. Lond. 1809; Ed. med. journ. VI. 364; against Miller. * *Bancroft* on the yellow fever. 8. Lond. 1811; learned, ingenious and instructive. See Synochus icterodes.

1. *Anetus quotidiana.* Quotidiana, Cull. syn. iii. Hofm. II. 33. Junck. 79. See A. tertiana, to which Cullen has referred many quotidians.

A. Intermittent. Quotidiana I, Cull. syn. iii. Sennert. febr. xviii. Ed. med. ess. V. 49. Brendel. Quotidiana, *Sauvages*, I. 347. Morton pyret. ex. 1. hist. 19. 20; hysteralgia

febricosa, Sauv. II. 124; hist. 28, quotidiana nephralgica, Sauv. I. 349, nephralgia febricosa, II. 116. Scharf. Eph. Nat. cur. Dec. 2. ann. 2. obs. 104; ureticosputatoria. Baine, Ed. med. ess. V. ii. n. 49; quotidiana ischiadica, Sauv. I. 348; ischias intermittens, II. 141; 9. epileptica, I. 348. Partial.) Cnoffel Eph. Nat. cur. Dec. 1. ann. 3. obs. 205. Ed. med. ess. I. n. 31. II. n. 19: Head, Morton pyret. ex. 1. hist. 27; Swieten p. 534; M. Soc. R. méd. II. 38; Cephalalgia intermittens, Sauv. II. 51; Cephalaea febricosa, 54: Eyes, Morton hist. 17; Swieten; Journ. med. 1760. 228; ophthalmia febricosa, Sauv. II. 71; *Pye*, Med. obs. inq. I. 111; quotidian or tertian blindness, cured by bark.

(† Hysteriae, catarrhi, ischuriae symptoma.)

B. Remittent. Quotidiana II, Cull. syn. iii. Galen on epid. 564. n. 11. Quotidiana continua, Sennert. River. obs. I. n. 47, 57. Ettmuller coll. cons. cas. 32. Amphemer'ina latica, *Sauvages*, I. 322; singultuosa, 328.

(† Tussis, paristhmitidis, peripneumoniae, synochi, catarrhi, podagrae symptoma.)

2. *Anetus tertiana*. Tertiana, Cull. syn. i. Stahl de tertiana febris genium universum manifestante. Hall. 1706; casuale magn. n. 21; cas. min. n. 96. Hofm. II. 11. Senac de recondita febrium natura. Ed. med. ess. IV. n. 24.

A. Intermittent. Tertiana I, Cull. syn. i. Tertiana, *Sauvages*, I. 349. 1) With single paroxysms, *a*. Not exceeding 12 hours. Tertiana legitima, Sennert. febr. II. c. 17, 18; Hofm. II. 12; Sauv. I. 349. Clegh. Min. 140, T. vera. *b*. Exceeding 12 hours. Tertiana notha. Sennert. febr. II. c. 17, 18; Hofm. II. 12. Sauv. I. 350; Cleg. Min. 140. 2) With more than single paroxysms. *a*. With daily paroxysms

alternately unequal. Tertiana duplex, Sennert. febr. II. c. 21; I. River. obs. III. n. 10, 11. IV. 77. Sauv. I. 353. Clegh. Min. 141. *b.* With two paroxysms on the same day. Tertiana duplicata, River. obs. IV. n. 16. Jones de febr. int. II. vi; Sauv. I. 353. *c.* With two paroxysms and one alternately. Semitertiana 1 Galeni, Spig. de semit. II. iv. Schenk, V. n. 12. Hofm. II. 40. Tertiana triplex, Brendel; Sauv. I. 353. Clegh. Min. 142. *d.* With daily paroxysms, but unequal intermissions. Hemitritaeus. Cels. III. iii. Semitertiana 2 Galeni, Spig. II. v. Ballon. cons. I. n. 115. II. 29. River. obs. I. 54. comm. 23. Semitertiana, Clegh. Min. 143. Amphemerina hemitritaeus, pseudohemitritaeus. Sauv. I. 326. 3) With complicated symptoms. *a.* Drowsiness. C. Pis. obs. 175, 176; Quotidiana soporosa, Sauv. I. 349. Febris caput impetens, Sydenh. ad Brad, Morton. ix. h. 25. Ramazzin. const. ep. 228. Febris lethargica, Torti, III. Werlhof febr. p. 6; Tertiana carotica, Sauv. I. 352; hemiplegica. 354. *b.* Spasmodic action. Bonet. pol. I. 250. Tertiana asthmatica, Sauv. I. 351. Morton, ix. h. 14, 15; Journ. med. VIII. vi. XXI. 224; Eclampsia febricosa, Sauv. I. 576. Wedel Eph. Nat. Cur. Dec. 1. ann. 2. obs. 193; Tertiana hysterica, Sauv. I. 352; Hysteria febricosa, 590. Bonet. sep. Calder. trib. med. 225; Torti, IV. iv. h. 3; Journ. méd. 1758. 43; Lautter hist. med. Vienn. 1761. ii. n. 2; Tertiana epileptica, Sauv. I. 353; Epilepsia febricosa, 584. Ed. med. ess. V. ii. n. 49; Quotidiana epileptica, Sauv. I. 348. E. Störck ann. II. 163; Tetanus febricosus, Sauv. I. 544. *c.* Eruption. Donat. III. xiv; Wedel? Eph. Nat. Cur. Dec. 1. ann. 2. obs. 193; Tertiana petechialis, Sauv. I. 350. Walthier. ap. Roncall. Europ. med. 151; Tertiana miliaris, Sauv. I. 354. Clegh. Min. 157; Planchon, Journ. méd. 1765; Tertiana urticata, Sauv. I. 354. Inflammatory fever. Vales. in epid. I. iii; Morton pyret. h. 8. p. 141; int. diagn. 33; Pleuritis febricosa, Tort. Anon. de rec. febr. nat. xviii. p. 102. Lautt.

hist. med. ii. n. 5, 9. Tertiana pleuritica, Sauv. I. 351; Pleuritis periodica, 473. Morton ex. 1. ix. h. 22. Lautt. cas. 19; Tertiana arthritica, Sauv. I. 351. 4) Complicated with other diseases. Ettmuller prax. I. xvi. c. 2; Timae. VIII. c. 15; Tertiana scorbutica, Sauv. I. 351. Deidier morb. ven. iv; Tertiana syphilitica, Sauv. I. 353. Ramazzin. const. ep. 1690, xi; Lancis. nox. pal. II. v, vi; Stisser act. Helmst. Bosch const. epid. verm. 1760; Tertiana verminosa, Sauv. I. 353. 5) Excited by an occasional cause. Sydenh. v. p. 53; Tertiana accidentalis, Sauv. I. 352. Hofm. II. 12; Junck. 80; Tertiana a scabie, Sauv. I. 352.

B. Remittent. Tertiana II, Cull. syn. i. Causus, Hipp. epid. III. iii; Tritaeophya causus, Sauv. I. 333. Boerhaave? 738; febris ardens. Macbride, 360. Mercat. febr. vi; tertiana perniciosa. Sal. Divers. febr. pest. x. River. XVII. ii. c. 1, iii. c. 3. Lang. Lemb. I. ep. 4; Sennert. febr. IV. xiv; Jord. pest. xix; Cober. obs. castr. Hung. I. n. 6...; Junck. 73; Hofm. I. x; Amphemerina Hungarica, Sauv. I. 327. Schenk, VI. e Gemma; hemitritaeus pestilens. Alp. Aeg. I. xiv. Barthol. hist. an. II. 56. Willis febr. xvi; febr. aut. 1657-8. Morton ex. 2. app.; febris syn. 1658-64, 1673-91. Sydenh. morb. ep. 24; ep. 1. 191; Torti, 200.. 259; Tritaeophya deceptiva, Sauv. I. 339. Sydenh. morb. ac. 1661-4; ep. ad. Pam. 1678; febres autumnales incipientes. Sylv. pr. med. app. tr. 10; orat. de affect. epidem. Fanois; Hall. disp. V; morb. ep. 1669. Lancis. pal. effl.; tertianae pestilentes, febres castrenses epidemiae. Hofm. II. 38; anomalae et mali moris; 112; cholerica. Koker; Hall. disp. V; epid. 1719. Torti ther. sp. III. i. Tort. 199, febris subcontinua; Quotidiana deceptiva, Sauv. I. 348. Torti, 131; Tertiana subcontinua, Sauv. I. 353. Amphemerina paludosa, Sauv. I. 330; Pringle, ed. 4. p. 179. Beccari Act. Nat. cur. III. obs. 48; 1729. Pringle, 174; Huxham de aere 1729, Tissot de febr. bil. 1759; Amphe-

merina biliosa, Sauv. I. 331; Macbride, 360. Hahn, Act. Nat. cur. X. app.; Tritaeophya Wratislaviensis, Sauv. I. 334. Desperieres, Journ. méd. 1762; Tritaeophya Americana, Sauv. I. 341; St. Domingo. Amphemerina semiquintana, Sauv. I. 333. Grainger de febre anom. Pujati morb. Naron. Hillary's Barb. continued remittent; Med. obs. inq. IV. 24. V. 2. Soc. R. méd. I. 213. M. 14. H. II. 145. Lind diss. inaug. 1768; Med. obs. inq. IV, art. 12; E. Ind. Rouppe morb. nav.; febris critica, febris biliosa aestatis. Lind dis. hot clim. With complicated symptoms.) a. Morton ex. 2. app. Tertiana cholerica, Torti. Lautter hist. med. cas. 6, 16, 17, 20. b. Tertiana subcruenta, Torti. c. Ballon. cons. I. n. 8. Lancis. II. iii. Huxham de aere I. 97. Tertiana cardiaca Torti. Lautt. cas. 15, 18, 23. Amphemerina cardiaca, Sauv. I. 324; Tritaeophya assodes. 337. d. Tertiana diaphoretica, Torti. Tritaeophya typhodes, Sauv. I. 335, elodes, 336. e. P. Aeg. II. xxxvii. Forest. t. 1. p. 89. obs. 29, 61. River. obs. IV. n. 36. Tertiana syncopalis, Torti. Lautter cas. 11, 12, 13, 15, 16. Amphemerina syncopalis, Sauv. I. 325, humorosa, 325; Tritaeophya syncopalis; 333. f. Epiala Gal. Phricodes Gal. introd. Lipyria Gal. Aët. V. 89. Forest. II. n. 36. River. obs. IV. n. 56. Amphemerina epiala, Sauv. I. 323, phricodes, 325; Tritaeophya lipyria, 338; Tertiana lipyria, 354. Valcarengh. med. rat. 18. g. C. Pis. 78. Bonet. sep. 210. Morton ex. 1. ix. h. 25. Lancis. I. II. iii. Werlhof febr. 6. Tertiana lethargica, Torti. Lautter 1, 7, 14. Tritaeophya carotica, Sauv. 337.

(† Dystociae symptoma.)

3. *Anetus quartana.* Quartana, Cull. syn. ii. Hofm. II. 23. Junck. 81.

A. Intermittent. Quartana I, Cull. syn. ii. *Monro*, Ed. med.

ess. V. ii. 564; mercury. *Fowler*, M. Med. soc. Lond, III. 114; electricity. 1) Simple. Sydenh. morb. ac. v. Quartana legitima, *Sauvages*, I. 355. 2) With two paroxysms on the same day only. Bonet. polyalth. Quartana duplicata, Sauv. I. 356. 3) With three paroxysms on the same day. Quartana triplicata, Sauv. I. 358. 4) Occurring two days out of three. Sennert. Quartana duplex, Sauv. I. 356. 5) Occurring daily, but with similar paroxysms every fourth day. Barthol. hist. an. I. n. 95. Schenk. V. n. 11. Bonet. sep. V. Quartana triplex, Sauv. I. 356. 6) With complicated symptoms. Bonet. polyalth. I. 805; Quartana cataleptica, Sauv. I. 357. C. Pis. obs. 166-9, 171-4; Werlhof febr.; Quartana comatosa, Sauv. I. 358. Scholz. cons. 379, 380; Quartana epileptica, Sauv. I. 357. Mort. pyr. ex. 1. ix. h. 10, 11; Quartana hysterica, Sauv. I. 357. Léméry Journ. Sav.; Quartana nephralgica, Sauv. I. 357. Quartana metastatica, Sauv. I. 359. Sydenh. morb. acut. v; Quartana amens, Sauv. I. 357. Sennert. febr.; Ettmuller coll. cons. cas. 25; Quartana splenetica, Sauv. I. 356. Quartana hepatica, Macbr. 354. 7) Complicated with other diseases. Ballon. epid. II. p. 131; Plater obs. III. 676; Monro, Ed. med. ess. V. ii. n. 47. obs. 8. 9; Quartana syphilitica, Sauv. I. 357. Morton; Werlhof febr. 55. Musgr. arthr. ix. h. 4, 5; Cockburn morb. nav. obs. 19. Quartana arthritica, Sauv. 1, 357; Arthritis febrisequa, II. 24, febricosa, 25. Barthol. med. dan. iv. Tim. VIII. n. 18; Quartana scorbutica, Sauv. I. 358.

B. Remittent. Quartana II, Cull. syn. ii. Tetartophya, *Sauvages*, I. 342. Horst. I. n. 15; Donat. III. xiv. ex Gatenaria; Lautter. c. 21; Tetartophya maligna, Sauv. Forest. III. 39; Bianch. hepat. 751. Werlhof febr.; Tetartophya carotica, Sauv. C. Pis. pr. 33; Tetartophya hepatalgica, Sauv. Vandermonde, 1757; Amphemerina spasmodica, Sauv. I. 329. A. semiquartana, Sauv. I. 332.

4. *Anetus erratica.* Erraticae, Cull. syn. ii. Erratica, *Sauvages,* I. 359. *Monro,* Ed. med. ess. II. 301; anomalous sequel; *Willison,* IV. 412; shaking after an ague; *Baine,* V. ii. 574. Senac. rec. febr. nat. I. i. *Gardeil,* M. Soc. R. méd. I. 14.

A. Erratica quintana, Sauv. Forest. III. 33. Tulp. III. 52. Swieten, p. 505.

B. E. septana, Sauv. Donat. 3. 14. Schenk. 826. *Morgagni,* ep. 49. art. 36. Swieten.

C. E. octana, Sauv. Sal. Divers. in Altom. xii. Zacut. Lusit. III. n. 34. Schultz. Eph. Nat. cur. Dec. 1. ann. 4, 5. obs. 70. Ettmuller pr. I. xv. c. 2. Cyrill. in Ettm. 187, 188, 365. Valles controv. V. xxv. Arnold. ap. Haller disp. V. Haen div. febr. iv. 9. Hemicrania lunatica, Sauv. II. 58.

D. E. nonana, Sauv. Zacut. Lusit.

E. E. decimana, Sauv. Zacut. Lusit.

F. Ephemera dichomene, Sauvages, I. 295. Donat. III. 14. Deidier obs. II. n. 14.

E. Erratica vaga, Sauv. River. obs. III. n. 32. Ettmuller, XV. ii.

XX. DEFLUXIO.

Defluxion.

A fever with some debility, and with a mucous or serous discharge. Often contagious.

1. D. *catar'rhus.* With a discharge from the nostrils, fauces, or bronchiae. Influenza.
2. D. *dysentéria.* A mucous and sometimes bloody discharge from the intestines, with griping and tenesmus. Dysentery.

1. *Defluxio catarrhus.* Catarrhus a contagio, Cull. syn. xl. 2. Rheuma, *Sauvages*, I. 686, sometimes; Coryza, II. 376, sometimes; Anacatharsis, 382; a symptom. Coryza maligna, Underwood; Snuffles, Denm. on rupt. of the uterus; a variety. Epidemics of 1323, 1328, 1358. Tozzetti oss. med. I. 175. Of 1387. Taranta, Marchesi, ap. Morgagn. ep. 13, art. 4. Of 1510. Valleriol. loc. comm. app. ii. Of 1575. Valleriola, River. obs. bibl. vet. n. 9. Forest. VI. i. Of 1580. Henisch. Aret. 315, 396. Sal. Divers. de febr. pest. xi. Forest. VI. n. 3. River. obs. bibl. vet. x. Sennert. febr. IV. xvii. Bokel synopsis novi morbi. Synocha catarrhalis, Sauv. I. 299. Of 1591. Sennert. Pechlin. II. obs. 17. Of 1658. Willis febr. xvi. Of 1675. Sydenh. V. 5. Rayger Eph. Nat. cur. Dec. 1. ann. 6, 7. obs. 213. Sorbait. Of 1679. Sydenh. ad Brad. Zod. med. Gall. I. Of 1708. Schroeck. Eph. Nat. cur. Cent. 1, 2, app. 14. Of 1709. Hofm. II. 47. Of 1712. Camerar. Eph. Nat. cur. Cent. 3, 4. obs. 58; Schroeck. app. 26. Of 1729, 1730. Hofm. II. 109. Loew, Act. Nat. cur. III. app. Scheuchzer obs. met. in Act. Nat. cur. IV. app. *Morgagni*, ep. 13, art. 3, 4. Beccar. Act. Nat. cur. III. p. 142. Hillary 35.

Wintringh. comm. nosol. 319. Rutty hist. weath. 17. Perkins, H. Soc. R. méd. I. 209. Of 1732, 1733. Comm. lit. Nor. 1733. 6, 52, 108, 267. Detharding, Hall. disp. pr. V. Ed. med. ess. II. n. 2. Hillary, 47. Wintringham comm. nosol. 354. Huxham de aere, 1733, Febr. Rutty hist. weath. 30. Catarrhus epidemicus, Sauv. II. 36. Of 1737. Rutty, 60. Comm. lit. Nor. 1737. 347. Of 1742, 1743. Comm. lit. Nor. 1743. 106, 188, 313, 336. Guch et Zuberbuchler; Haller disp. pr. V. Huxham de aere, 1743. Rutty weath. 99. Tozzetti oss. med. I. 176. Rheuma epidemicum, Sauv. I. 688. Of 1748. Clegh. Min. 132. Perkins, H. Soc. R. méd. 210. Of 1758. Rutty weath. 211. *Whytt*, Med. obs. inq. II. 187. Of 1762. *Watson*, Phil. trans. 1762. 646. Baker de catarrho et de dysenteria. 4. Lond. 1764. Monro arm. dis. 137. Macbride, 333. *Gilchrist*, Ed. phys. ess. III. 409. Ehrmann de morbo catarrhali. Strasb. 1762. Of 1767. *Heberden*, Med. trans. I. 437. Grant on the influenza? Of 1775. *Fothergill's* sketch, with observations by *Pringle, Heberden, Baker, Reynolds, Cuming, Glass, Ash, White, Haygarth, Pulteney, Thomson, Skene,* and *Campbell*, Med. obs. inq. VI. 340; agreeing tolerably well with each other. Of 1779, 1780. M. Soc. R. méd. III. 16. Saillant tableau, 1780. Of 1782. Wittwer über den epidemischen catarrh. Nur. 1782. Crell et Langguth de catarrho. 8. Helmst. 1782. * *Gray*, Med. commun. I. 1; very contradictory accounts; *Smyth*, 71. *Report*, Med. trans. III. 54. R. Hamilton on the influenza; Dunc. med. comm. IX. 214; Another *account*, 393. Metzger geschichte der epidemie. 8. Kön. 1782. Mursinna beob. II. 1. *Hamilton*, M. Med. soc. Lond. II. 418; further observations. Of 1788. *Simmons*, Lond. med. journ. IX. 335; *Bew*, 354. *May*, Dunc. med. comm. XIV. 363; *Chisholm?* XV. 325; W. Ind. *Lindsay?* XVII. 499. *Falconer?* M. Med. soc. Lond. III. 20; *A. Fothergill?* 30; *Warren?* IV. 434; N. Engl. Of 1803. *Carrick*, Dunc. ann. 1803. 410; *Scott*, 424; *Dunean*, 437. *Circular letter*, with 57 answers. M. Med. soc. Lond. VI. 266. (See also Schneider, Göter, Wagler, Moneta, Mudge, Tissot, Stoll r. m. Grimm, Marx, Weikard, Stark.)

† Cauma catarrhale, xv.

2. *Defluxio dysenteria.* Dysenteria, Cull. syn. xli. Galen loc. aff. VI. ii. Bont. med. Ind. iii. Sydenh. IV. iii; p. 211. Helwich morb. Wratisl. 1699. Ramazz. morb. art. xl. Hofm. III. 151; Suppl. II. ii. Junck. 76. Bagliv. pr. m. I. ix. Werlhof opp. III. 779. Degner dys. Neom. 1736. Ed. med. ess. III. 32; *conessi* bark; *Pringle,* V. 194; vitrum antimonii ceratum; *Simson,* V. ii. 654; separation of the villous coat. Monro's lect. Huxham de aere, 1743. Clegh. Min. v. *Grainger,* Ed. phys. ess. II. 257; lime water. Hillary Barb. 243, 328. *Morgagni,* ep. 31, de alvi profluviis. Grimm, Act. N. Nat. cur. III. app. *Watson,* Phil. trans, 1762. 646. Akenside de dysenteria. Lond. 1762. Roederer. Baker de catarrho. Monro arm. dis. 57. Stark historiae dysentericae. Leyd. 1766. Hannes Unschuld des obstes. 8. Pes. 1766. * *Zimmermann* von der ruhr. Zur. 1767; by Hopson. 8. Lond. 1771. Dysenteria epidemica, castrensis, *Sauvages,* II. 327; aequinoctialis, 328. Lentin. Clark. *Whytt,* Ed. phys. ess. III. 366; *D. Monro,* 516; great intestines ulcerated. Fordyce surg. fragm. *Lassone,* M. Soc. R. méd. I. 97; from putrid effluvia; *Caille,* III. 32; *Durand,* IV. 84. Wardrop de dysenteria contagiosa; Webster m. pr. I. 476. Mursinna über die ruhr. 8. Berl. 1780; Lond. med. journ. V. 137. Moseley on dysentery. 4. Kingst. 1780; Lond. med. journ. II. 86. Hagström on the nux vomica; Lond. med. journ. III. 189. *Causland,* Dunc. med. comm. VIII. 286. *Fothergill,* Med. obs. inq. VI. 186; ipecacuan sparingly. Houlston on poisons; mercury. Stoll. rat. med.; prael. II. 253. 264. *Chavasse,* Lond. med. journ. V. 297; vitr. ant. cer. *Atchison,* Dunc. med. comm. IX. 268. Rollo on acute dysentery. 8. Lond. 1786. *Cawley,* Lond. med. journ. VII. 337. *Cardin,* M. Med. soc. Lond. III. 517; ipecacuan. Lambsma ventris fluxus. 8. Frankf. 1792. Brüning über die schädlichkeit des mohndsafts. 8. Neuw. 1794. Engelhard über die ruhr. 8. Winterth. 1797. Matthäi über die ruhr. 8. Hann. 1797. Hunnius über ruhr. 8. Jen. 1797. Vogler von der ruhr. 8. Giess.

1797; " from 6000 cases." Hufelands journ. I. *Balmain*, M. Med. soc. Lond. V. 210; ipecacuan very largely. *Baillie's* engr. 73. Dewar on diarrhoea and dysentery in Egypt. 8. Lond. 1803; Dunc. ann. 1803. 44. *Field*, M. Med. soc. Lond. VI. 128; ulceration. Harty on dysentery. 8. Lond. 1805. Ed. med. journ. V. 393; at *Wallajahbad*. *Hooper*, Ed. med. journ. V. 399; from Corunna; Remarks, VI. 167; Reply, 450. Lichtenstein, Rec. période.; Ed. med. journ. VI. 296. *Ferguson* and *Gray*, Medicoch. tr. II. 180; salivation.

A. Dysenteria verminosa, Sauv. II. 329. Huxham de aere 1743, Maio. Pringle, 225. Dusausay, Vanderm. 1757, Mai. Monro, 62.

B. Dysenteria carnosa, Sauv. II. 329; Diarrhoea carnosa, 356. Wedel, Eph. Nat. cur. Dec. 2. ann. 2. obs. 182; Wagner and Schroeck, ann. 3. obs. 187. Peyer gland. int. ex. 1. p. 2. *Morgagni*, ep. 31, art. 17. .24. Pringle, 237. Monro, 62.

C. Dysenteria intermittens, Sauv. II. 330. Morton ex. 2. app. Torti, III. i. 125. Werlhof febr. Clegh. Min. 236. Lautter hist. med. cas. 17, 20.

D. Dysenteria alba, Sauv. II. 328. Sennert. III. Willis ph. rat. I. iii. c. 3. Sydenh. 179. Ettmuller. *Morgagni*, ep. 31, art. 11. Pringle, 225. Roederer de morbo mucoso. 4. Gott. 1762; a Wrisberg, 1783. Monro, 61.

E. Dysenteria miliaris, Sauv. II. 330. Gruber de febre Tiguri epidemica, 1747.

(† Amenorrhoeae, dyspepsiae, plicae, syphilidis, scrofulae, scorbuti, dystociae, diarrhoeae symptoma.)

XXI. HECTICA.

Hectic fever.

A frequent weak pulse, with night sweats or liquid evacuations, flushings of the face or extremities, and a sediment in the urine.

The fever generally increases in the afternoon, but sometimes is most observable in the morning. A hectic fever, though perhaps always occasioned by some other disease, may yet require the greatest share of our attention, and may be most conveniently considered as idiopathic.

1. H. *debil'ium.* Without emaciation.
2. H. *tábes.* With great emaciation, but no cough.
3. H. *phthísis.* With cough or pain in the chest.

Hectica. Stahl de hectica febre. Hall. 1705. Schulze de febre lenta. Hofm. med. rat. Nicolai path. febr. III. *Heberden*, Med. trans. II. 1. Griffith on hectic. 8. Lond. 1776. Fournier sur la fievre lente. 8. Dij. 1781. Drechsler febrium lentarum aetiologia. Leipz. 1782. Trnka historia febris hecticae. 8. Vienn. 1783; Lond. med. journ. VI. 81. Sachtleben über auszehrende krankheiten. 2 v. 8. Dantz. 1792.

1. *Hectica debilium.* Hectica, Cull. syn. II. 80. Does not necessarily imply emaciation, but can scarcely exist long without it. Hectica, Sauvages, I. 316, is supposed to have no exacerbations of fever except in immediate consequence of eating. Withers on chronic weakness? 8. York. Med. comm. Ed. IV. 399; beginning with dyspepsia.

2. *Hectica tabes.* Tabes, Cull. syn. lxix, *Sauvages,* II. 446.

A. Without organic disease. Hectica, *Sauvages,* I. 316. Tabes venenata, Cull. syn. lxix. 3. Tabes a veneno, *Sauvages,* II. 451. Forest. IV. n. 2; nostalgica; also Meyzerey II. n. 226, and *Hamilton,* Dunc. med. comm. XI. 343. See Asthenia universalis, and Erethismus nostalgia.

B? With a tumour, especially enlarged glands. Tabes scrofulosa, Cull. syn. lxix. 2; Tabes mesenterica, glandularis, rachialgica, Scrofula mesenterica, Atrophia rachitica, infantilis, Sauv. Belongs properly to scrofula. *Ayton Douglas,* Ed. med. ess. V. ii. 629.

C? With an abscess. Tabes purulenta, Cull. syn. lxix. 1; Arthropyosis. xxv; in the last stage. See Cauma rheumatismus, xv, Apostema, l. Hippocr. int. aff. 540. Bonet, sep. II. vii. 152, 160. Horst. II. 185. Stahl de hectica abscessus comite. Hall. 1710. Armstrong de tabe purulenta. 8. Ed. 1732; Smellie thes. I. 61. Haen rat. med. IV. iv. §. 4. *Morgagni,* ep. 46. n. 20; ep. 65. n. 15. Schroeder de phthisi hepatica? 8. Gott. 1783. Schüler, Journ. méd. LIII. 264.

3. *Hectica phthisis.* Phthisis, Cull. syn. in xxxvii. Hipp. dis. I. 450: int. aff. 456, 478, 536. Horst. opp. II. 134. Willis pharm. rat. II. i. 6, 11. Bennet theatrum tabidorum. 8. Leyd. 1742; vestibulum. 8. Lond. 1654. *Morton* phthisiologia. 8. Lond. 1689. Sydenh. opp. 790. Bellin. morb. pect. 663. Werlhof, III. 791. *Barry,* Ed. med. ess. I. 273; after peripneumony, extending to the liver; II. n. 22; IV. 418; from *Dover;* bleeding; *Thomson,* V. 88; repeated emetics. *Foubert,* M. Ac. chir. I. 717. *Arnot,* Ed. med. ess. V. ii. 613; a bone coughed up. Huxham, I. 197. Musgrave Gulst. lect. Pringle arm. dis. Haen rat. med. I. 86. II. 2. III. 181, 187. VI. 74, 131. VII. 238, 240. VIII. 91. IX. 49. XII. 250, 254. *Morgagni,* ep.

22, de sputo sanguinis, et de sputis purulentis, empyemate, et phthisi. Monro arm. dis. Brendel. opp. III. 111. *Paitoni*, Phil. trans. 1765. 69. Phthisis, *Sauvages*, II. 451. *Dickson*, Med. obs. inq. IV. 206; *Fothergill*, 231, 289; against balsams; *Brymner*, Med. comm. Ed. III. 422; a seton. *M. Ac.* chir. V. 549; fumigations. *Fothergill*, Med. obs. inq. V. 345; against bark and sulfuric acid in the first stage; oxymel of squills often irritates. Home's clin. exp. Chalmers. Lentin. Roederer morb. muc. Stoll. rat. med. I. 203. II. 1, 356.. 370. IV. 117, 121. VII. passim; aph. 300. S. F. Simmons on consumptions. 8. Lond.; Dunc. med. comm. VII. 59. Halliday de phthisi; Webster m. pr. I. 323. Portal Ac. Par. 1781, 1788. *T. Reid* on phthisis. 8. Lond. 1782; Lond. med. journ. III. 385. *Keir*, Med. commun. I. 157; an ulceration into the oesophagus; *Stark* and *Smyth*, 359. Finke gallenkr. 74. Starke klin. inst. 59, from arsenical vapour; 72. *Holman*, Lond. med. journ. VII. 120; a carious bone coughed up, which had probably been swallowed 15 years before. Smyth on swinging. 8. Lond.; Dunc. med. comm. XII. 143. *May*, Lond. med. journ. IX. 268; XI. 255; *Gapper*, 388. *Percival*, M. Med. soc. Lond. II. 288. Metternich vom schaden der brechmittel in der lungensucht. 8. Mayence, 1792; against Reid, who is very fond of emetics. *Adair*, Dunc. med. comm. XVII. 473; emetics of cupr. sulf. with extr. conii; Davidson, XVIII. 395; limited use of liquids. Desault sur la phthisie. *R. Pearson*, Med. facts. VII. 95. Dunc. ann. 1796. 401; vapour of ether. Rush med. inq. II; Dunc. med. comm. XX. 68. *Howison*, Dunc. ann. 1797. 324; carbonic acid. Carrick on Bristol water, 8. 1797. Drake; Beddoes's contributions. 8. Bristol; Dunc. ann. 1799. 123; digitalis; *Fowler*, 145. *Ja. Johnstone*, M. Med. soc. Lond. V. 89. Ferriar on digitalis. 8. 1790. Beddoes on calculus. Beddoes on the causes of consumption. 8. Brist. 1799; Dunc. ann. 1799. 68. Beddoes on the management of consumption and the cure of scrofula. 1801; Dunc. ann. 1801. 188. Pears's cases of phthisis. 8. 1801. Baillie's engr. 37, 41; tuberculated lungs. Bourne on uva ursi. 8. Lond. 1806; Ed.

med. journ. II. 346. I. Reid on consumption. 8. Lond. 1806; Ed. med. journ. III. 78. Regnault on lichen. 8. 1806. Sanders on consumption and digitalis. 8. Ed. 1808; Ed. med. journ. IV. 364. *Pearson*, Phil. trans. 1809. 313; expectorated matter. Woolcombe on the frequency of diseases. 8. Lond. 1808; Ed. med. journ. V. 205. Smyth on consumption. Uttox. 1809. *Shearman*, Ed. med. journ. VI. 67; steel, where there is amenorrhoea; *Fogo*, 175; against the influence of the uterus. Buxton on a regulated temperature. 8. Lond. 1810; Ed. med. journ. VI. 332.

(† Catarrhi, dyspepsiae, lithiasis, hydropis, rachitidis, syphilidis, scrofulae, parasitismi symptoma.)

CLASS III.

PARECCRISES.

SECRETORY DISEASES.

ORDER I. *EPISCHESES.* RETENTIONS.

XXII. OBSTIPATIO.

Constipation.

Retention of the alvine discharge.

1. O. *alvina.* Positive costiveness.
2. O. *tenes'mus.* Relative to the effort.

1. *Obstipatio alvina.* Obstipatio debilium, rigidorum, Cull. syn. cxxiii. 1, 2; scarcely varieties. Aët. I. iv. 20. III. i. 15, 26. Forest. XXI. 24. Ballon. opp. I. 43; stricture. Sennert. paral. III. 4. Barthol. hist. an. IV. 40; V. 40; VI. 38, from hernia. Schenk, 275-6. Bonet. sep. III. xiii. 5, stricture; 11, from hernia. Ruysch obs. 95, 96. Stalpart. I. 55; 56, a tumour; 64, obstructio. Ed. med. ess. IV. 31; from hernia. Cowper, Shearman, Phil. trans. Amyand, Fielding, Younge, obstructio. Phil. trans. Madder, from hernia, Phil. trans. *Morgagni*, ep. 32, de alvi adstrictione. Tenesmus a scybalis, *Sauvages*, II. 363. Med. obs. inq. IV. n. 10. Barral, Journ. med. L; obstructio. Rec. period. II. 330. Gooch, Med. comm. Ed. II. 373; a concretion. *Johnston*, V, 302, stricture; 323. White's cases. Lorry, M. Soc. R. méd. II. Walther thes. obs. n. 12; obstructio. Weikard verm. schr. II. 52.

Callisen, Act. Soc. med. Havn. II. *Elliott*, Lond. med. journ. I. 349; *Willan*, V. 401. Gerard, Dunc. med. comm. X. 44; *Warren*, 255; from indurated faeces, with apparent diarrhoea. *Spence*, Med. trans. III. 99; water externally. Fink gallenkr. 77. Theden N. bem. II. 269. *Kite*, Lond. med. journ. VIII. 164. *Helsham*, Dunc. med. comm. XIII. 282; indurated faeces. Sherwen, M. Med. soc. Lond. II; *Falconer*, 73; cold water. *Bishoprick*, Dunc. med. comm. XX. 340; accumulation, with colic pain. Reil. mem. clin. I. n. 3. Mursinna beob. I. 141; introsusception. *Clarke*, Trans. Ir. ac. VI. 3; in infants. *Hosack*, Dunc. ann. 1796. 310; 22 days; an ounce of calomel taken, which relieved after salivation. *Mossman*, Dunc. ann. 1797. 307; fatal. *Baillie*, Tr. soc. med. ch. kn. II. 174; 103 days; from a contracted and ulcerated rectum.

2. *Obstipatio tenesmus.* Galen loc. aff. VI. ii. Oribas. IX. xiii. Forest. XXII. n. 40..43. Bont. med. Ind. v. Zimmerm. on dys.

† Obstipatio obstructorum, Cull. syn. cxxiii. 3. Colicae symptoma.

XXIII. ISCHURIA.

Ischury.

Obstruction of the urine.

† DYSSPERMATISMUS, Cull. syn. cxxvi. may often coexist with ischuria, especially when merely symptomatic, as seems to be the case in all the species distinguished by Cullen. D. urethralis, nodosus, praeputialis, refluus, 1, 2, 3, 8, are symptoms of structural diseases, which must also produce dysury; D. mucosus, 4, of blennorrhoea; D. hypertonicus, of priapismus;

D. epilepticus, 6, of epilepsy, and D. apractodes, 7, of asthenia.

1. I. *renális.*	With an uneasiness about the kidneys, and without micturition or distension of the hypogastrium.
2. I. *ureter'ica.*	With pain or uneasiness in the region of the ureters, and without micturition.
3. I. *vesicális.*	With micturition, pain at the neck of the bladder, and tumour in the hypogastrium.
4. I. *urethrális.*	With distension of part of the urethra.
5. I. *dysúria.*	Partial, the passage not being entirely closed. Dysury, Strangury.

Ischuria. Cull. syn. cxxiv. Galen loc. aff. I. i. VI. iv. Aët. III. iii. 21, 23. Forest. XXV. n. 12. Horst. opp. II. 242. Ballon. cons. III. 17, 82. Barthol. ep. IV. 91. Schacht. inst. med. pr. VIII. Nenteri de ischuria. Varandaeus. Monro arm. dis. *Morgagni,* ep. 41, de urinae suppressione; ep. 66, de morbis potissimum vesicae. *Mackenzie,* Med. obs. inq. I. 81; bark. Ischuria, *Sauvages,* II. 520, and Cusson. *Grüling. Raymond,* Med. obs. inq. V. app.; blistering the sacrum; Med. comm. Ed. V. 475. *Bentley,* Med. commun. I. 256. *J. Pearson,* Med. obs. inq. VI. 246; opium. *Snowden,* Lond. med. journ. VII. 10; electricity; *Stevenson,* IX. 382; fatal. *Latham,* Med. commun. II. 138; camphor applied to the thighs. *Patten,* Lond. med. journ. X. 306. *Lucas,* XI. 109. *Livingston,* M. Med. soc. Lond. III. 570; IV. 421. *Bishop,* Med. facts. VIII. 122; decoction of peach leaves. *Cline,* Med. records. 83; tinct. ferr. mur.

The authorities, arranged under the subdivisions of Cusson and Ploucquet, may serve as a specimen of the prolixity inseparable from the introduction of too minute distinctions.

1. *Ischuria renalis.* Cull. syn. cxxiv. 1. Stalpart. I. n. 51; calculi. *Balderston,* Ed. med. ess. II. 359; kidney enlarged. Lysons, Phil. trans. *Dawson,* Phil. trans. 1759. 215. *J. Clarke,* Med. comm. Ed. VI. 204. Stevenson, Lond. med. journ. IV. 1788. Stoll rat. med. II. 143. Lettsom, M. Med. soc. Lond. II; hydatids. *Willan,* Med. facts. III. 1. *Senter,* M. Med. soc. Lond. IV. 164. Ischuriae renales, *Sauvages,* II. 522. Cusson's species.) A. I. nephritica. Fabr. Hildan. lithot. 1. iv. Bonet. sep. III. xxiv. 4. §. 3. Schenk. III. isch. fals. iv, v. Ettmull. coll. pr. 994. † B. I. nephrolithica. Car. Piso morb. coll. ser. Schenk. isch. Bonet. sep. ur. suppr. Ed. med. ess. II. n. 31. Journ. méd. 1756. C. I. nephroplethorica. River. obs. I. n. 1, 89. Ettmuller. Gaub. pathol. Ludwig, inst. med. clin. D. I. lunatica. Tulp. obs. II. xlix; monthly. E. I. nephrospastica. Sydenh. diss. ep. Raulin. mal. vap. M. Ac. Par. 1715. † F. I. nephrelminthica. Gorter med. pr. Gaub. pathol. † G. I. nephrothromboides. Fernel. path. VI. xiii. Mercat. morb. int. xii. Ettmuller, 314. Gorter. Gaubius. † H. I. nephropyica. Schenk. III. ren. tum. Bonet. sep. ur. suppr. Sal. Div. aff. part. xiv. Gorter. Gaub. † I. I. nephrophlegmatica. Bonet. sep. isch. n. 4. Sal. Div. Graf, Eph. Nat. cur. III. obs. 212. Mercati. Gorter. Gaub. Blennorrhoea? K. I. nephroplegica. Sal. Divers. Mercat. Horst. II. iv. n. 49. Donat. hist. med. IV. 28. Barthol. ep. IV. 18, 38, 39. L. I. suppleta. Donat. IV. 27; Schenk. III. diab. n. 9; by diarrhoea and sweat. Sennert. pr. III. viii. s. 2. c. 9; discharge from the ears. Vandermonde, IV, perspiration; X, sweat.

2. *Ischuria ureterica.* Cull. syn. cxxiv. 2. Ed. med. ess. II. n. 31; Störck ann. II. 253; stricture and adhesion. Ischuriae uretericae, *Sauvages,* II. 526. Cusson's species.) A. I. ureteritica. Sal. Divers. Ludwig. Gaub. † B. I. ureterolithica. Bonet. sep. III. Tulp. obs. II. xlv. Schenk. III. Sal. Divers. Stalpart. I. 51. Monro, Ed. med. ess. V. ii. n. 68. † C. I. ureterothromboides. Bonet. sep. III. ur. suppr. n. I. † D. I. ureterophlegmatica. Sal. Divers. Bonet. Gorter. Fink gallenkr.

264. Blennorrhoea? † E. I. ureteropyica. Gorter. Salius. † F. I. ureterostomatica. Eller, Misc. Ber. IV. 381. Noel and Verdier, M. Ac. chir. II. n. 17. Lieutaud, M. Ac. Par. 1753. Salzmann. obs. anat. 62.

3. *Ischuria vesicalis.* Cull. syn. cxxiv. 3. *Gilchrist,* Ed. phys. ess. III. 471; bladder thickened. Sharp's researches. Ischuriae vesicales, *Sauvages,* II. 528. *Hamilton,* Phil. trans. 1776. 578; punctured by the rectum. Buck de ischuria vesicali; Webster m. pr. III. 185. *Norris,* M. Med. soc. Lond. I. 117; punct. by rect. *Lucas,* Med. commun. II. 90; punctured; *Smyth,* II. 505; cantharides. *Wilson,* Dunc. med. comm. XVI. 288; fatal, more than 16 pounds. *Turner,* Lond. med. journ. XI. 7; *Watson,* 349; punct. by rect. *J. Johnston,* M. Med. soc. Lond. III. 543; bladder ruptured. Senter, Tr. Coll. Phil. I; Med. facts. VI. 212; Dunc. med. comm. XIX. 142; gravel vomited and discharged by the rectum; no ulceration remained after death. Bonn über die harnverhaltung und den blasenstich. 8. Leipz. 1794. Weldon on puncturing the bladder. *Home,* Tr. soc. med. ch. kn. II. 344; puncture. *Baillie's* engr. 139; thickened bladder. Cusson's species.) A. I. cystitica. Galen. ap. Zacut. Lusit. hist. med. princ. II. h. 150. Forest. XXV. n. 27, 28. Bonet. sep. III. M. Ac. Par. 1704, 1753. Lieutaud; from the inflammation of the uvula vesicae. † B. I. cystolithica. Forest. XXV. n. (7), 13, 19, 23. Car. Piso morb. a coll. ser. Fabr. Hild. III. n. 67. Schenk. III. ii. 239. Bonet. sep. III. xxiv. Tulp. IV. 37; Ed. med. ess. II. n. 31; IV. n. 1, 2, (9), 10. Werlhof opp. III. 701. Lieutaud, Journ. méd. XXI. 349; Pamard, XXIII. 421. Med. comm. Ed. VI. C. I. cystospastica. Forest. XXV. n. 14. Schenk. III. ii. 243. Mercati morb. int. IV. xxii. Sarcone Nap. Snowden, Chavasse, Lond. med. journ. Stoll rat. med. II. 143. *J. Pearson,* Med. obs. inq. VI. 246; opium, also *Mather,* Med. facts. IV. 102. † D. I. cystoplegica. Galen. ap. Zacut. Lus. II. h. 140. Manget. bibl. IV. Pringle, Ed. med. ess. II. n. 32. See N. E. I. polyurica. Forest. XXV. 14. Sennert. pr. III. viii. s. 1. c. 4. Ettmuller. Haller prael. in B. II. 336. F. I. cysto-

pyica. Galen ap. Zacut. Lus. II. h. 148. Plater mant. obs. 29. André mal. ur. Vandermonde, Journ. méd. IX. *Manget*, Med. comm. Ed. I. 318. G. I. cystothromboides. Galen loc. aff. VI. v. Paul. Aeg. VI. lix. Forest. XXV. n. 20. Fabr. Hildan. III. n. 66. Mercat. morb. intern. xii. H. I. cystophlegmatica. Bonet. ex Bartholin. Mercati. Ettmuller. Fink gallenkr. 264. † I. I. ectopocystica. Plater obs. p. 830. Verdier and Noel, M. Ac. chir. II; hernia or prolapsus. Richter br. II. 256. K. I. cystoproctica. Schenk. III. isch. obs. 6. Bonet. sep. III. ur. suppr. obs. 18. §. 4. Wepfer apopl. 391. Vandermonde, IX. 261. Fink gallenkr. 267. *Oliphant*, Lond. med. journ. VII. 26. L. I. hysterocystica. 1. Pregnancy. Nordmann de ischuria gravidarum. Mauriceau, I. xv. 138. Bromfeild, Phil. trans. Cheston's obs. Richt. chir. bibl. V. 674. 2. Labour. Bonet. ex Riolan. Daran in Vandermonde, V. 3. Dropsy. Hippocr. dis. wom. xii. Sennert. pr. IV. i. s. 2. c. 10, 11. Schenk. IV. mol. falsa. 4. Tumour. Sennert. Knoffel Eph. Nat. cur. IV. Gaub. Cheston's obs. Richt. chir. bibl. V. 673. 5. Prolapsus. Sennert. c. 16. Nordmann. Sabatier, M. Ac. chir. III. (6. Pl.) Obliquity. Hipp. dis. wom. 654. Aët. IV. iv. c. 77. (7. Pl.) Retroversion. Hipp. dis. wom. 647. Aët. IV. iv. c. 77. Hunter, Med. obs. inq. V. Cheston, Med. comm. Ed. II. ii; IV. 167. Richt. chir. bibl. IV. 236. V. 680. Wanters, Journ. méd. LV. 323. LVIII. 337; Desgranges, LIX. 36; Dusaussoy, LXVII. 283. (8). Concretions. *Louis*, M. Ac. chir. II. 130; *Pecquet*, 585. See dysuria, dystocia. † M. I. atretarum. Schenk. IV. part. mul. obs. 9. Heist. chir. II. 951. Amyand, Phil. trans. 1732. 45. Astruc morb. mul. I. i. c. 5. Magnan. H. soc. R. méd. 1776. 286. Dolignon, Journ. méd. LXIV. 252. Birnstiel. Balding. N. mag. X. 325. See deformitas. N. I. paradoxa. With partial flow of urine. Leclerc, Journ. méd. 1755. *Morgagni*, ep. 56, art. 12. Stoll prael. I. 368. See dysuria. † (O. Pl.) From malconformation of the bladder. Ruysch. obs. 28. Huxham, Phil. trans. † (P. Pl.) From obstruction. Morg. ep. 42. pass. † (Q Pl.) From the pressure of an abscess. Sever. rec. absc. n. IV. 35. † (R. Pl.) From a tu-

mour. Barthol. hist. an. II. 52. *Macgill*, Ed. med. ess. V. ii. 355. Brady, Warner, Phil. trans. Med. comm. Ed. I. 148; hydatid. Home clin. exp. Hill's cases. *Cullum*, Med. obs. inq. VI. 91. (S. Pl.) From a cicatrix or callus. Ruysch obs. 89. Tyson, Phil. trans. Morg. ep. 40, art. 4. Ed. phys. ess. III. 21. (T. Pl.) From a cartilaginous substance. Ac. Par. 1770. (U. Cuss. Pl.) From a steatoma. Barthol. cent. I. h. 23. Swertner, Richter chir. bibl. V. 551. (X. Pl.) From general dropsy. Theden N. bem. II. 78. (Y.) From a slough. *Andrée*, Med. obs. inq. V. 342.

4. *Ischuria urethralis*. Forest. XXV. n. 15, 20. Bonet. sep. III. xxiv. 11, 14, 7. Ischuriae urethrales, *Sauvages*, II. 534. Martin, Journ. méd. XXIII. 266; Coste, XXVI. 240. André, Med. obs. inq. VI. 32. Sandifort, obs. an. path. III. 3. Cusson's species.) A. I. perinaealis. Galen. loc. aff. ap. Zacut. Lusit. hist. 149. Forest. XXVI. n. 2. Tulp. III. x. Daran, Vandermonde, V. 291. Lacroix, Journ. méd. L. 39. † B. I. urethrolithica. Barthol. IV. ep. 5. Bonet. sep. ur. suppr. obs. 14. Tulp. III. viii. Heister. chir. II. 839. C. I. urethrophlegmatica. Forest. XXV. 25. Bonet. sep. D. I. urethrothromboides. Forest. XXV. 25. Bonet. sep. ur. suppr. obs. 11. E. I. urethropyica. Forest. Bonet. Boerh. praef. aphr. F. I. urethrohymenodes. H. Ac. Par. 1714. 22; membrane or perhaps coagulable lymph. † G. I. urethrelminthica. Bonet. med. sept. de urin. xxxi. Manget. bibl. IV. Vandermonde 1758. 245. Albrecht. † H. I. urethritica. Fabr. Hild. IV. obs. 54. Forest. III. iii. s. f. Bonet. med. sept. Goulard mal. uréthr. Heist. chir. II. 838. † I. I. carunculosa. Stalpart. I. 88. II. 40. Goulard mal. ur. Heister chir. II. 834. André mal. ur. Sharp's researches. Foot. dis. ur. See contractura. † K. I. hydrocelodes. Apini, Eph. Nat. cur. Dec. 3. ann. 3. obs. 68; accidental laceration. L. I. cryptopeica. Hofm. cons. morb. abd. cas. 105. † M. I. peridesmica. Bonet. med. sept. isch. i. n. 8. † N. I. phimotica. Horst. II. iv. 274. Bonet. sep. isch. obs. 15. Goulard mal. ur. Heist. chir. II. 818. † O. I. aspa-

dialis. Horst. II. 55. Bonet. sep. ur. suppr. obs. 15. sch. Wier. obs. 221. Heist. chir. II. 818, 951. See deformitas. (P. Pl.) From an enlarged prostate. Bonet. sep. III. xxv. 17. *Morgagni*, ep. 66, art. 5; the uvula of Lieutaud, from whom Morgagni dissents. Sandifort ex. acad. II. 109. *Ware*, M. Med. soc. Lond. II. 336. (Q. Pl.) From aneurysm in the penis. Trye, Med. Commun. II. n. 17. (R. Pl.) Aphrodisiaca. Ballon. opp. I. 116.

B ? Praeputial. (N) Bonet. sep. III. xxiv. n. 15; from accident. *Dickson*, Dunc. ann. 1799. 412; concretions.

5. *Ischuria dysuria.* Dysuria, Cull. syn. cxxv. Hipp. dis. 523. Galen ? loc. aff. VI. iv; strangury. Aët. III. iii. c. 19... Fernel. cons. LIX; strangury. Forest. XX. n. 1..6; strangury; XXV. 2, 8, 9, 34..39. Ballon. cons. I. p. 99. III. p. 68; p. 25, 82, strangury. G. Harv. expect. viii. strang. Plater quaest. 64. Barthol. hist. an. V. 21. *Heberden*, Med. trans. I. 471; from camphor. Dysuria, *Sauvages*, II. 388. *Percival*, Lond. med. journ. IV. 68; from ammonia. Lentin memor. 57; beytr. Stoll rat. med. V. 444. *Macbeth*, Dunc. med. comm. XX. 232; cured by copaiba. *Smyth*, Med. commun. II. 505; from distension; recommends cantharides, gr. j or ij, with camphor.

A ? With ardor urinae. Dysuria ardens, Cull. syn. cxxv. 1. Astr. morb. ven. I. vii. n. 5. Delii am. ac. 188.

B. Spasmodic ? Dysuria spasmodica, Cull. syn. cxxv. 2. Sydenh. hyst. pass. p. 132; opp. p. 680: Stahl in Harv.

† C. From compression. Dysuria compressionis, Cull. syn. cxxv. 3. Ruysch, obs. 88. Canterell. Phil. trans. Mery, M. Ac. Par. 1713. 146. Salzmann de hern. ves. *Morgagni*, ep. 39, art. 5, 6; ep. 48, art. 39. Bouver, Journ. méd. XLI; Med. comm. Ed. III, 58; a concretion in the uterus.

† D. From inflammation. Dysuria phlogistica, Cull. syn. cxxv. 4.

† E. From lithiasis. Dysuria irritata. Cull. syn. cxxv. 5.

† F. With a secretion of mucus. Dysuria mucosa, Cull. syn. cxxv. 6. Blennorrhoea.

(† Contracturae, carcinomatis symptoma.)

XXIV. AMENORRHOEA.

Suppression.

A simple retention or suppression of the catamenia.

1. A. *eman'sio.* The catamenia having never appeared at the time of puberty.
2. A. *suppres'sio.* The catamenia having before appeared.
3. A. *partiális.* The catamenia being scanty or irregular.

† Autalgia dolorosa K, v. Dyspepsia chlorosis, xxxi.

AMENORRHOEA. Cull. syn. cxxvii. *Morgagni,* ep. 47, de menstrui fluxus vitiis, Sauvages, II. 598; a cause of chlorosis. *Austin,* Ed. phys. ess. III. 116; electricity. Harris de morbis virginum; Webster m. pr. III. 229. *Watson,* Lond. med. journ. VII. 413; calomel; *Copland,* XI. 230; madder. See dyspepsia chlorosis.

1. *Amenorrhoea emansio.* Amenorrhoea emansionis, Cull. syn. cxxvii. 1. Forest. XXVIII. n. 6. .9. Ballon. opp. I. 197. Bonet. sep. III. xxxv. 6; from a tumour. *Perfect,* M. Med. soc. Lond, III. 593; till 47, from that time menstruation continued till death. († B. Imperforated hymen, a deformitas.

Schenk. IV. n. 97. Bonet. sep. III. xxxv. add. obs. 4. Ruysch, obs. 32. Journ. med. XXXVII. app. 121. Haen rat. med. VI. ii. §. 3. Walter, M. Ac. Ber. 1774. 81. Asper, Richter chir. bibl. IV. 76.)

2. *Amenorrhoea suppressio.* Amenorrhoea suppressionis, Cull. syn. cxxvii. 2. Galen loc. aff. VI. v. Forest. XXVIII. n. 1. Horst. II. 262, 273. Plater obs. I. 247. Freind emmenologia. Chalmers. Hamilton, Ed. phys. ess. II. 403; compresses the iliac arteries. Stoll prael. II. 372. Balding. N. mag. IX. 20.

3. *Amenorrhoea partialis.* Amenorrhoea difficilis, Cull. syn. cxxvii. 3; the definition including pain. *Pearce,* M. Med. soc. Lond. III. 502.

A. A simple deficiency. Pearce; irregular.

B. A vicarious discharge. *Calder,* Ed. med. ess. III. 380; from an ulcer; also Pearce.

XXV. AGALAXIA.

Want of milk.

1. A. *idiopath'ica.* Independent of any other disease.

† Dystocia.

1. *Agalaxia idiopathica.* Aët. IV. iv. 33. Forest. XVII. 16.. Horst. II. 277. Levret Journ. méd. XXXVII.

A. A simple deficiency.

B ? A vicarious discharge or accumulation. Hipp. on glands 273. Astruc mal. f. V. 450. Ac. Par. 1728, 1746. Levret acc. Bossu, Martin, Journ. méd. XXXIV; Planchon, XXXVI; Milleret, XLII. Haen rat. med. VII. 134. Lentin beob.; memor. 101. Swieten comm. IV. 611. Stoll rat. med. II. 350. Scheffer vers. II. 406, 411; asserts that the fluids are always purulent: this might easily be ascertained by the eriometer. Selle N. beitr. I. 68. II. 73. Theden N. bem. II. 231. Weikard verm. schr. I. 47. Richter chir. bibl. I. iv. 9, 22.

ORDER II. *APOCENOSES.* EFFUSIONS.

XXVI. EPHIDROSIS.

Colliquation.

An increase of the cutaneous secretion.

1. E. *spontánea.* Independent of any other disease.

1. *Ephidrosis spontanea.* Cull. syn. cxviii. *Sauvages,* II. 369. Haen rat. med. XII. vi. §. 6. Balding. N. mag. I. 495.

A. General.

B. Partial. Ephidrosis lateralis, Sauv. II. 371.

† C. Depraved; properly a cacochymia. Ephidrosis lactea, mellea, vinosa, viridis, nigra, lutea, urinosa, cruenta, caerulea, acida, arenosa, Sauv.

(† Syncopes, pyrexiae, dyspepsiae, scorbuti symptoma.)

XXVII. EPIPHORA.

Overflowing.

An effusion from a conglomerate gland.

1. E. *lacrymális.* From the lacrymal gland.
2. E. *ptyalis'mus.* From the salivary glands.
3 ? E. *lac'tea.* From the breast.

Epiphora lacrymalis. Epiphora, Cull. syn. cxix. Oribas. VIII. c. 53. Forest. XI. 11, 15. Sennert. c. 46. Janin mém. 285. Wepfer obs. 822. M. Ac. chir. II. n. 12. 14. Epiphora frigida, *Sauvages*, II. 375. Lentin beob. Richter, Comm. Gott. 1778. 100; obs. chir. iii. *Ware* on the eye. 8. Lond. 1805; Ed. med. journ. II. 233.

(† Opthalmiae, variolae, podagrae, emphragmatis, ecphymatis symptoma.)

2. *Epiphora ptyalismus.* Ptyalismus, Cull. syn. cxx. Forest. XIV. 23. Ballon. cons. I. 180. II. 13, 25. Wepf. obs. 959. Werlhof opp. III. 752. Cheyne, v. 366. Hirschel br. n. 3; steel useful. Ptyalismus a laxitate, *Sauvages*, II. 378; a calculo, 382. *Power*, Med. trans. Lond. II. 34. *Silvester*, Med. obs. inq. III. 241; a most obstinate vomiting relieved, after 5 months, by restoring a salivation which had ceased; *Dobson*, VI. 174; a case somewhat similar. Fink gallenkr. 239. Lettsom. Febure, Journ. méd. LXVIII. 446. Willich, Balding. N. mag. VIII. 252. *Daniel*, Med. commun. I. 155; from a diminished secretion of urine.

(† Inflammationis, pyrexiae, dyspepsiae, aphthae, ulceris, syphilidis, scorbuti, venenationis, dystociae symptoma.)

3. *Epiphora lactea.* Galen fragm. Dioscor. II. xcviii. Forest. XVII. 19. Galactirrhoea, *Sauvages*, II. 411. Lentin memor.

XXVIII. HYPERURESIS.

Flow of water.

A morbid increase of the discharge of urine.

1. H. *aquósa.* The quantity secreted in a given time being increased.
2. H. *micturit'ia.* The frequency of the discharge being more affected than the quantity.

1. *Hyperuresis aquosa.* Diabetes insipidus, Cull. syn. lxii. 2. Aret. chr. II. 2. Gal. loc. aff. VI; cris. I. 2. Eph. Nat. cur. Dec. 1. ann. 2. obs. 122. Diabetes legitimus, *Sauvages*, II. 384; a vino, 385. Vauquelin, Med. écl.; Med. facts. III. 167; from habitual thirst. *Shee*, Dunc. ann. 1796. 343; camphor; *Jarrold*, 1801. 390. 1802. 261; galls and lime water.

(† Hysteriae, podagrae symptoma.)

2. *Hyperuresis micturitia.* Enuresis, Cull. syn, cxxi; not very accurately defined. Generally referable either to paralysis or to erethismus. "Stranguria Galeni." Aët. III. iii. c. 24, 25. Fernel. cons. lxii. Forest. XXV. 21. Ballon. cons. I. 104. III. 50, 53, 122. Barthol. act. Hafn. II. 109. Bonet. sep. III. xxvii. 2. Mauriceau, I. 138. Haller N. Comm. Gott. VIII. n.

7. Monro arm. dis. Arnaud. instr. Enuresis, *Sauvages*, II. 386. *Mitchell*, Med. obs. inq. VI. 169; flexible catheter.

A. From debility. Enuresis atonica, Cull. syn. cxxi. 1. Junck. 98. *Dickson*, Med. obs. inq. II. 311, 388. III. 102; blistering; also *A. Fothergill*, III. 138. Enuresis paralyticorum, Sauv. II. 386. Michaelis, Richt. chir. bibl. V. 112. Theden N. bem. I. 111. II. 68. *Oliphant*, Lond. med. journ. VII. 416; blisters. See paralysis particularis c, ii.

B. From irritability. Enuresis irritata, Cull. syn. cxxi. 2. Enuresis a sparganosi, Sauv. II. 388. Lieut. hist. anat. I. 296; from contraction. See erethismus micturitius, vi.

(† Ectopiae symptoma.)

XXIX. BLENNORRHOEA.

Mucous effusion.

An increased discharge from some of the mucous follicles or pores.

1. Bl. *cutánea.* From the skin.
2. Bl. *pulmonáris.* From the mucous glands of the lungs.
3. Bl. *vesicális.* From the bladder.
4. Bl. *urethrális.* From the urethra.

1. *Blennorrhoea cutanea.*

A. About the ears. Sennert. ix; fluxus aurium. Ettmuller. Otorrhoea serosa, *Sauvages*, II. 413.

B. At the corona glandis. Gonorrhoea balani, *Sauvages*, II. 404.

2. *Blennorrhoea pulmonaris.* Nearly connected with humoral asthma viii, but sometimes existing without any spasmodic disease.

(† Caumatis catarrhalis, Defluxionis catarrhi symptoma.)

3. *Blennorrhoea vesicalis.* Dysuria mucosa, Cull. syn. cxxv. 6. Hofm. IV. cons. II. n. 93. Lieutaud, syn. 272. Pyuria mucosa, *Sauvages*, II. 396; viscida, 395. Parnham de cystirrhoea. 8. Ed. 1772; Smellie thes. III. 251. Bailheron, Journ. méd. 1782; Gilbert, LI. 507. Balding. N. mag. VII. 236, 504. *Squire*, M. Med. soc. Lond. III. 504; with disease of the kidney. Trnka de catarrho vesicae? *Brown*, Dunc. med. comm. XX. 223; cured by injections. Kausch Erfahrungen.

B? The discharge rather purulent than mucous. Galen loc. aff. VI. iv. Oribas. IX. xxvii. Fernel. cons. lvi, lxi. Plater. obs. II. 476. III. 819. Ballon. cons. II. 39. Barth. act. Hafn. IV. 29. *Johnson*, Lond. med. journ. VI. 295.

4. *Blennorrhoea urethralis.* Gonorrhoea, Cull. syn. cxxii, sometimes; but the synonyms are very incorrectly quoted. Fernel. cons. lxiii. Forest. XXVI. n. 13..16. Ballon. cons. I. 69, 78, 92. *Morgagni*, ep. 44, de gonorrhoea. Stoll rat. med. V. 443; prael. 103, 187. Richter chir. bibl. IV. 508. Fordyce ven. dis.; from pepper. Murray; from ammonia. Hunter ven. dis.; gouty, and from distant irritation. Schwediauer ven. kr. 41, 44. Roberton, Ed. med. journ. II. 134; recommends tinct. lytt. Roberton on cantharides. 8. 1806.

A. Purely mucous. Gleet. Almost always either a symptom of stricture or a sequel of gonorrhoea.

B. More puriform. Gonorrhoea pura, Cull. 1; without infection or dysury. Sometimes a symptom of stricture, and mistaken for Bl. vesicalis.

† C. Seminal. Gonorrhoea pura, *Sauvages*, II. 401; libidinosa ib. G. laxorum, Cull. 3. Galen loc. aff. VI. vi. Forest. XXVI. 11, 12, 17. Ballon. cons. III, 54. Wichmann de pollutione diurna. 8. Gott. 1782.

† Gonorrhoea impura, mucosa, Cull. 2. Inflammatio specifica B, xiii. 4; G. dormientium, Cull. 4, Erethismus onirodynia C, vi. 4.

† Diarrhoea mucosa, serosa, XXX.

XXX. DIARRHOEA.

Looseness.

An increase of the alvine discharge.

1. D. *stercórea.* The quantity only being increased.
2. D. *biliósa.* The quantity of bile being increased, as indicated by the colour and consistence; preceded only by nausea.
3. D. *chol'era.* Accompanied by bilious vomiting and cramps.
4. D. *mucósa.* The discharge being principally mucous.
5. D. *serósa.* The discharge being almost wholly liquid.
6? D. *lientéria.* The discharge containing much of the food little digested.
7? D. *chylósa.* The discharge containing chyle.

DIARRHOEA. Cull. syn. lxi. Galen loc. aff. VI. ii; on progn. I. Aët. I. iv. c. 19. II. i. c. 90. III. i. c. 35-8. Al. Trall, VIII. vii; rheumatismus. Cael. Aur. III. 22; defluxio. Forest. XVIII. n. 50, 51. XXI. 1. .15, 21. .29. XXII. 8, 11, 19, 30. Horst. opp. II. 174. Bonet. sep. III. x. add. obs. 3. Ballon. cons. I. pass. Bont. med. Ind. iv. Mauriceau, I. 149, 430, 504. Harris morb. inf. 30. Bagliv. pr. med. I. ix. Junck. 112. Lambsma ventris fluxus. Amst. 1756. *Morgagni*, ep. 31, de alvi profluviis; ep. 65, de ventris morbis, art. 5. Armstr. dis. ch. *D. Monro*, Med. trans. II. 325; mesentery ossified. Lentin beob.; with ischury. Med. comm. Ed. V. 334. Stoll prael. II. 219, 430. Stark clin. obs. Balding. kr. arm. 231, 305. Vialez, Hautes. rec. *Hughes*, Med. facts. VI. 156; mahogany wood. *Clarke*, Trans. Ir. Ac. VI. 3; in infants.

1. *Diarrhoea stercorea.* Diarrhoea crapulosa, Cull. syn. lxi. 1. D. stercorosa, vulgaris, *Sauvages*, II. 355. Scarcely a disease.

2. *Diarrhoea biliosa.* Cull. syn. lxi. 2. Al. Trall. Cael. Aur.; coeliaca. Forest. XXII. 9, 10, 12. Bonet. sep. III. x. n. 13. Hofm. II. 165. Diarrhoea biliosa, *Sauvages*, II. 357. *Caille*, M. Soc. R. méd. V. 37.

3. *Diarrhoea cholera.* Cholera spontanea, Cull, syn. lx. 1; *Sauvages*, II. 351. Hipp. epid. V. 1144, 1159. Aretaeus. Sydenh. IV. ii. 1669. Hofm. II. 165. Junck. 112. *Porter*, Ed. med. ess. III. 357; warm bath; *Aytoun Douglas*, V. ii. 646; decoction of toasted oat bread. Cleghorn's Min. Monro arm. dis. *Heberden*, Med. trans. II. 153. Leman de cholera; Webster m. pr. II. 72. Stoll rat. med. III. 64. *Sherwen*, Dunc. ann. 1801. 399; 1802. 259; *Paisley*, 1801. 413.

† Cholera accidentalis, Cull. syn. lx. 2, dyspepsiae, venenationis symptoma.

4. *Diarrhoea mucosa.* Cull. lxi. 3, Fernel. path. VI. x. Stalpart, I. 62; from the rectum. Mucous diarrhoea, Freind. hist. med. Diarrhoea lactentium, *Sauvages*, II. 359; pituitosa. 356; Dysenteria Parisiaca, 326.

5. *Diarrhoea serosa.* Diarrhoea hepatirrhoea, Cull. syn. lxi. 6. Al. Trall. VIII; coeliac affection. C. Piso coll. ser. Hofm. II. 117. Phil. trans. n. 337, and Hall. phys. II. 370; urinous, with ischury. Diarrhoea serosa, *Sauvages*, II. 358; Hepatirrhoea intestinalis, 321.

6. *Diarrhoea lienteria.* Cull. syn. lxi. 5. Cels. IV. Gabelchover, II. obs. 41. Scanlan de lienteria. 8. Ed. 1751; Smellie thes. II. 25. Lienteria spontanea, *Sauvages*, II. 361. See dyspepsia.

7. *Diarrhoea chylosa.* Diarrhoea coeliaca, Cull. syn. lxi. 4. Rather a symptom of scrofula or tabes. Aretaeus. Cael. Aur. IV; ventriculosa passio. Forest. XXII. 7. Bonet. sep. II. x. 5. Tralles de opio. Coeliaca chylosa, *Sauvages*, II. 360.

† Symptomatic of a variety of diseases.

ORDER III. *CACOCHYMIAE.* CACHEXIES.

XXXI. DYSPEPSIA.

Indigestion.

A depravation of the gastric fluid, and a derangement of the functions of the stomach in general.

1. D. *simplex.*	The derangement of the digestion being the prominent feature of the disease.
2. D. *pyrósis.*	With an abundant eructation of an aqueous fluid. Water brash.
3. D. *hypochondríasis.*	The spirits being dejected, and the imagination in some measure perverted.
4. D. *chlorósis.*	With suppression of the catamenia.
5. D. *pica.*	With a perversion of appetite.
6. D. *bulimia.*	With an inordinate craving.
7? D. *anorexia.*	Want of appetite.
8? D. *adipsia.*	Want of thirst.
9? D. *polydipsia.*	With morbid thirst.

† Diarrhoea lienteria, xxx.

1. *Dyspepsia simplex.* Dyspepsia, Cull. syn. xlv. Fernel. cons. xxvi. Forest. XVIII. 2, 3, 35-8. Bonet. sep. III. vi. 1; stomach enlarged; 2, a preternatural lining; 4, the omentum putrescent; 12, hernia. *Thomson,* Ed. med. ess. V. 86; emetics and purgatives frequently repeated. Whytt's works. Black de humore acido a cibis. 8. Ed. 1754; Smellie thes. II. 271. Lieutaud, M. Ac. Par. 1756. 223; "Cardialgia paralytica," *Sauvages,* II. 91; stomach distended. *Johnstone,* Med. obs.

inq. II. 107. Richt. chir. bibl. III. 78. *Anderson*, Med. comm. Ed. II. 294; stomach enlarged. Temple de dyspepsia; Webster m. pr. II. 1. Stoll rat. med. V. 439. Daubenton on ipecacuan. Engl. 8. Lond. 1806. Weikard verm. schr. I. 275... Wedekind de morbis primarum viarum. *Douglass*, M. Med. soc. Lond. IV. 395; stomach enlarged. Gibson on bilious diseases. 8. 1797; quassia and soda. *Martyn*, Dunc. med. comm. XIX. 298; mercury. *Faulkner*, Ed. med. journ. II. 5; active exercise; *Forbes*, 9; sulfureted hydrogen. * *Abernethy's* surgical observations, II; on the digestive organs. 8. Lond. 1806; Ed. med. journ. II. 463. Stone on diseases of the stomach. 8. Lond. 1806; Ed. med. journ. III. 357. *Baillie's* engr. 55; ulcer of the stomach.

A. With nausea. Nausea ex cacochylia, Sennerti, *Sauvages*, II. 336. *Fothergill*, Med. obs. inq. VI. 103; sick head ache.

B. With vomiting. Vomitus a crapula, a saburra, lacteus, *Sauvages*, II. 337; pituitosus, 344. Sydenh. vii. 132; pr. int. 669; "Gastrodynia hysterica," Sauv. II. 98. *W. Hunter* and *Hey*, Med. obs. inq. VI. 310, 319; milk in small quantities.

C? With rumination. Vomitus ruminatio, *Sauvages*, II. 339. Horst. opp. II. 162. Bonet. sep. III. v. 0. 9, 10. Peyer merycol. *Morgagni*, ep. 29, de hominum ruminatione, art. 4.

D. With flatulence. Flatulentia, *Sauvages*, II. 413. Aët. III. i. 27. Forest. XVIII. 42. Fienus de flatibus.

E. With heartburn. Pyrosis vulgaris, *Sauvages*, II. 83. Sennert. xvi. H. Ac. Par. 1706. Hofm. II. 120.

F. With aching or spasmodic pain. Cardialgia, Gastrodynia, *Sauvages*, II. 88, 93; sometimes his cardialgia is attended

by faintness. Aët. III. i. 13. Plater. 369, 377. Hofm. II. 261. n. 6. Trnka historiae cardialgiae? 8. Vienn. 1785. Schlüter über den magenkrampf. 8. Brunsw. 1796.

G? Anaemia, Hallé, Journ. med.; Ed. med. journ. III. 170; occurring in coal mines. Seems to be allied to chlorosis.

† Nightmare. See Erethismus onirodynia.

(† Autalgiae, hydrophobiae, colicae, hysteriae, pyrexiae, cholelithiae, paraphymatis, herniae, obstructionis, venenationis, parasitismi, dystociae, dysodontiasis symptoma.)

2. *Dyspepsia pyrosis.* Pyrosis, Cull. syn. lviii. Pyrosis Suecica, *Sauvages*, II. 84. *Pemb.* dis. abd. visc.

3. *Dyspepsia hypochondriasis.* Hypochondriasis, Cull. syn. xlvi. Gal. loc. aff. III. 7. Horst. opp. II. 181, 543. Ballon. cons. II. 33, 49. III. 40, 54. Willis path. cer.; path. aff. hyst. hyp. opp. I. Manardi, XVII. 1. Fracassinus de morbo hypochondriaco. Hofm. III. 64; suppl. II. ii. Junck. 36. Bagliv. pr. m. I. ix. Boerh. 1098. Dover's leg. Cheyne's English malady. 8. Lond. 1734. Turner de morbo hypochondriaco. 8. Ed. 1756; Smellie thes. II. 401. Grant on fevers. Stoll rat. med. IV. 371, 380, 392. 401; prael. II. 316. Baynes de hypochondriasi; Webster m. pr. II. 17. Geschichte eines hypochondristen. 8. Berl. 1782. Kämpf von der hypochondrie. 8. Leipz. 1786. Zimmermann von der einsamkeit. IV. 33. Balding. N. mag. VIII. 542. Weikard verm. schr. I. 174. II. 174. Theden N. bem. II. 186, 193. Tode unterricht für hypochondristen. 8. Copenh. 1797. See Mania.

(† Hysteriae, asthmatis, hecticae, lithiasis, tympanitidis symptoma.)

4. *Dyspepsia chlorosis.* Chlorosis, Cull. syn. xlvii. I have

followed a prevalent opinion, in refering chlorosis to dyspepsia, but there are reasons for thinking it is quite as naturally connected with amenorrhoea. Oribas. IX. 22. Aët. III. ii. 19. Forest. XIX. 25. 27. Plater. obs. III. 603. . . Horst. opp. II. 269, 281, 295. Ballon. cons. III. 7, 51, 88, 114; morb. mul. opp. IV. 66, 129. Bonet. sep. III. xviii. 32. Hofm. III. 311; suppl. II. ii. Junck. 86. Boerh. 1285. Niemann de unguium mollitie in chlorotica. 4. Magd. 1744; steel. Astruc mal. f. II. 1. Chlorosis virginea, *Sauvages*, II. 597. Stoll prael. II. 376. Dorsey de chlorosi; Webster m. pr. II. 44.

(† Colicae, hydropis, parasitismi, dystociae symptoma.)

5. *Dyspepsia pica.* Pica, Cull. syn. ciii. Gal. loc. aff. V. vi. Forest. XVIII. 7. XXVIII. 65. Horst. opp. II. 160. Sennert. par. III. n. 2. Schenk, III. 33. IV. 131. Tulp. II. xxiv. IV. xxiv. Ettmuller. Whytt's works. Pica infantilis, chlorosiantium, *Sauvages*, II. 212.

B? Antipathy. Barthol. hist. ann. III. 28. Antipathia, *Sauvages*, II. 220.

(† Dystociae symptoma.)

6. *Dyspepsia bulimia.* Bulimia, Cull. syn. ci. Forest. XVIII. n. 5, 6. Schenk. III. 26. Bonet. sep. III. ii. 1, 12. Ruysch. obs. 74. Menjot de bulimo. Cookson, Phil. trans. Bulimia, *Sauvages*, II. 215.

A? Habitual only. Bulimia helluonum, Cull. syn. ci. 1. B. esurigo, Sauv. II. 217; "vix est morbus."

B. With faintness. Bulimia syncopalis, Cull. syn. ci. 2. B. cardialgica, Sauv. II. 216.

C. With vomiting. Bulimia emetica, Cull. syn. ci. 3. B. ca-

nina, Sauv. II. 216. *Wastell,* M. Med. soc. Lond. III. 501.

(† Paraneurismi, venenationis, parasitismi symptoma.)

7. *Dyspepsia anorexia.* Anorexia, Cull. syn. cvii; "always symptomatic." Forest. XVIII. 8..10, 13, 14. Horst. opp. II. 153. Ballon. cons. III. 10. Schenk. III. 37. Bonet. sep. I. ix. 31. Anorexia, *Sauvages,* I. 765. Pflüger. Balding. N. mag. XI. 151. See asthenia universalis.

A ? From offending substances. Anorexia humoralis, Cull. syn. cvii. 1. Gal. loc. aff. V. 6. Forest. XVIII. 7. Bonet. sep. I. 13.

B ? From debility of the stomach. Anorexia atonica, Cull. syn. cvii. 2. Sennert. Bonet. II. Bagliv. pr. m. I. xiv. 3.

(† Podagrae symptoma.)

8. *Dyspepsia adipsia.* Adipsia, Cull. syn. cviii; "not a disease;" *Sauvages,* I. 770.

9. *Dyspepsia polydipsia.* Polydipsia, Cull. syn. cii; "generally symptomatic;" *Sauvages,* II. 218. Bonet. sep. II. See Hyperuresis. Where it exists alone, it is only a variety of a natural appetite.

(† Pyrexiae, apocenosis, hydropis, venenationis symptoma.)

XXXII. PODAGRA.

Gout,

Indigestion, with a peculiar pain in the stomach, followed by pain and swelling of the small joints of the feet or hands: the cutaneous and urinary secretions undergoing also peculiar modifications.

1. P. *arthritis.*

1. *Podagra arthritis.* Podagra, Cull. syn. xxiv. Podalgia Dioscoridis. Fern. cons. xiii. Forest. XXIX. 1. 17. Horst. opp. II. 400, 406. Willis an. brut. path. xiv. Sydenham de podagra. Morton pyretol. ix. h. 22. Lister in Morton. Musgrave de arthritide anomala. 8. Amst. 1710; a case of death from the use of cold water. Hofm. II. 317, 339. Junck. 46. Bagliv. pr. m. I. 9. II. 6, 7. Boerh. 1254. Werlhof opp. III. 700. Tacconus; Ed. med. ess. II. 380; gouty matter sometimes acid, sometimes alkaline. Oliver on warm bathing. 4. 1751. *Pringle,* Ed. phys. ess. II. 250; musk. *Pye,* Med. obs. inq. I. 41; a critical acid vomiting; *Clephane,* 126; on the gout powder. *Morgagni,* ep. 57, de arthritide. *Heberden,* Med. trans. I. 472; if salutary. Arthritis, *Sauvages,* II. 18. Cadogan on the gout. 8. Lond. 1771. *Clerk,* Ed. phys. ess. III. 425; *Whytt,* 466. Med. comm. Ed. III. 125. V. 399. Nicoll de arthritide; Webster m. pr. II. 281. Lee on a gouty case. 8. Lond. 1782; a singular secretion. Lond. med. journ. I. 199. Stevenson on blisters in the gout. *Small,* Med. obs. inq. VI. 198, 214; emetics and bark. *Watson,* Med. commun. I. 86; dissection. *Hulke,* Lond. med. journ. V. 389; cramp in a gouty person. Dunc. med. comm. XI. 392; sulfur water. Weismantel Kraft des guaiacharzes. 4. Erf. 1786. Stoll rat. med. II. 365. V. 431;

prael. 359. Aasheim, Act. med. Hafn.; Dunc. med. comm. XIV. 73; minyanthes. Desault sur la goutte. Gardiner on the gout. Rowley on the gout. 8. Lond. 1792; muriatic acid. Forbes on gravel and gout. 8. Lond. 1793. * *Wollaston*, Phil. trans. 1797. 386; gouty concretions. *Dunc.* ann. 1802. 443; cold water. Barthez des maladies goutteuses. 2 v. 8. Par. 1802; Ed. med. journ. I. 212. Tavares de corticis usu in podagra. 12. Lisb. 1802; Ed. med. journ. I. 211. Kinglake on gout. 8. Lond. 1804; Ed. med. journ. I. 200. Edlin's cases. 12. Uxbridge; Ed. med. journ. I. 209. Kinglake on Edlin's cases. 8. Taunt. 1804; Ed. med. journ. I. 210. *Duncan*, Ed. med. journ. III. 425; in a negro, also Quarrie, IV. 459. *Moore*, Medicoch. tr. I. 112; concretions. Hamilton on the gout. 8. Lynn, 1809; Ed. med. journ. VI. 361. * *Jones* on the eau médicinale in the gout. 12. Lond. 1810; Ed. med. journ. VI. 353. Ring on the gout. 8. Lond. 1811.

A. With external inflammation. Podagra regularis, Cull. syn. xxiv. 1. See Cauma podagricum.

B. With much debility and indigestion, but little local pain. Podagra atonica, Cull. syn. xxiv. 2. *Lind?* Lond. med. journ. VI. 53; ether in gout in the stomach.

C. The inflammation suddenly succeeded by great debility. Podagra retrograda, Cull. syn. xxiv. 3.

D. With internal inflammation. Podagra aberrans, Cull. syn. xxiv. 4. Galiesky vom miserere oder darmgicht? 8. Mitt. 1767.

XXXIII. CHOLELITHIA.

Gallstones.

Pain near the cardia, without constant tenderness; a want of bile in the alvine discharge, and frequently a yellow tinge in the urine and the skin.

I have written cholelithia rather than chololithia, Syll. med. lect., partly because Ploucquet has used the word, and partly from the analogy of choledochus.

1? Ch. *acúta.* The pain being severe, the obstruction of bile and yellowness of the skin inconsiderable.

2. Ch. *ic'terus.* With yellowness of the skin, eyes, and urine, and without considerable pain.

CHOLELITHIA. Bonet. sep. *Morgagni*, ep. 37, de ictero, et de calculis biliosis.

1. *Cholelithia acuta.* Icterus calculosus, Cull. xci. 1. Ed. med. ess. I. n. 33. II. n. 28, 29. *Petit* and *Morand?* M. Ac. chir. I. 155. II. 470; tumours of the gall bladder. *Johnstone,* Phil. trans. 1758. 543. Heb. Med. trans. II. n. 10. Lettsom, M. Med. soc. Lond. I. 373. Sömmering de concrementis biliosis. 8. Frankf. 1795. Hall, Tr. coll. Phil. I; Dunc. med. comm. XIX. 160; electricity. *Gibbons,* Dunc. ann. 1796. 279; salivation. *Baillie's* engr. 109. *Pemberton,* abd. visc. See the next species.

2. *Cholelithia icterus.* Icterus, Cull. syn. xci; I. calculosus, 1, sometimes; I. infantum, 5. Jaundice is properly a symp-

tom either of gallstones, or of some structural disease of the liver or gall duct.; more frequently of the former, especially in temperate climates: and some of the authorities here quoted relate to both species. Viscidity of the bile of course belongs to this species. Hippocr. dis. II. 472; int. aff. 551. Gal. loc. aff. V. 7. Aët. III. ii. 17, 18. Forest. XIX. 15..23. Plater. obs. III. 610. Horst. opp. II. 207. Ballon. cons. III. 114. Barthol. hist. an. II. 89. Willis. ph. rat. II. ii. 1. Tulp. II. xxxvi. Sydenh. opp. 272, 764. Schachtius de icteritia phthisi. 4. Herborn. 1724. Bagl. pr. med. I. ix. 136. Hofm. III. 301. Junck. 90. Boerh. 918. Werlhof de aurig. III. 662. Mead de morbis biliosis. 8. Lond. 1749. Huxham's works. I. 158. Dale, Stuart, Camillis, Phil. trans. *Ed.* med. ess. I. 305; *Sympson*, II. 341; *Dundas*, 345; with suppuration. Housset, Journ. med. XXIII. 312; Audoux, XXXII. 438. Drummond de ictero. 8. Ed. 1750; Smellie thes. I. 465. *Morgagni*, ep. 59, art. 36. Monro arm. dis. Störck ann. I. 150. Swieten comm. §. 935, 590. Haen de verm. intest. Lieut. hist. anat. I. 211; worms. Aurigo, *Sauvages*, II. 584. *Heberden*, Med. trans. II. 123. Tissot nerv. dis. Grant fev. Home's clin. exp. Portal; Dunc. med. comm. X. 76. Willis de ictero; Webster m. pr. III. 155. Stoll rat. med. I. 290... III. 361... VII. 15; prael. II. 289; febr. 81. Balding. kr. arm. 226. *Percival*, M. Med. soc. Lond. II. 60; objects sometimes seem yellow. Percival's essays. *Sims*, M. Med. soc. Lond. II. 283; cured by bathing and then lying in hot linen. Vogler von der gelbsucht. 8. Wetzl. 1791. Hautes. rec. II. 329. Selle med. clin. 176. Powell on the bile. 8. Lond. 1800. Gibbons's cases. 8. 1801; salivation.

† Icterus spasmodicus, Cull. syn. xci. 2, is a doubtful disease, either not essentially distinct, or a symptom, or sequel, of hysteria or some other spasmodic affection; I. hepaticus, 3, a symptom of a structural disease, especially physconia; I. gravidarum, 4, Swiet. III. 95, of dystocia.

(† Colicae, pyrexiae, venenationis, parasitismi symptoma.)

† Instances of spurious icterus attributed to different causes. Hipp. int. aff. 551. Forest. XIX. 17; dyspeptic. Sydenh. opp. 272, 764; hysterical. Lieutaud hist. anat. I. 211; a worm. *Morgagni*, ep. 37, de ictero; various causes. Swieten, 590, 935. Tissot nerv. dis. Hautesierk rec. II. 329; injury of the head. Stoll rat. med. I. 214, 286... III. 361, 386... Cullen first lines. IV; from absorption of bile. Portal.

XXXIV. LITHIASIS.

Stone.

Pain in the loins or in the urinary passages, especially in or after making water, with a sabulous discharge, or a stone sensible to the sound.

1. L. *renális.* Pain in the loins, extending towards the thighs, or a discharge of gravel. Gravel.
2. L. *vesicális.* A stone being sensible in the bladder.

Lithiasis. Cull. syn. cat. morb. omiss. *Paisley*, Ed. med. ess. V. ii. 750. *Morgagni*, ep. 42, de urinae vitiis. Lanphier de calculo; Webster m. pr. III. 168. Wilson on the causes of gravel. 8. Lond. Dunc. med. comm. XVII. 55. Beddoes on calculus, scurvy, consumption, catarrh, and fever. 8. Lond.; Dunc. med. comm. XVIII. 17; *Wilson* and *Forbes*, XIX. 391. *Blane*, Tr. soc. med. ch. kn. II. 135; magnesia tried without advantage. * *Wollaston*, Phil. trans. 1797. 386; *Pearson*, 1798. 15. *Egan*, Tr. Ir. Ac. X. 309. *Barlow*, Ed. med. journ. V. 16; *Goodlad*, 438; *Inquirer*, 444; *Barlow*, VI. 307. *Brande*, Phil. trans. 1810. 136; magnesia; * *Wollaston*, 223; cystic oxid.

Dr. Wollaston's division of calculi. 1. Scheelian; dissipable; soluble in pure potass; urate of ammonia. 2. Fusible; into an

enamel; soluble in muriatic acid; triple phosphate. 3. Bone earth; little alterable by the blowpipe; soluble in muriatic acid. 4. Mulberry; calcinable; little soluble in muriatic acid; oxalate of lime. 5. Cystic oxyd; crystallizing both with acids and with alkalis, but not readily soluble.

1. *Lithiasis renalis.*

A. The calculus being confined to the kidney. Nephralgia calculosa, *Sauvages*, II. 112. Sennert. Bagliv. p. 419. *Douglas*, Ed. med. ess. I. 231. *Lafitte*, M. Ac. chir. II. 233; nephrotomy, also *Hevin*, III. 238. *Taithwell?* Ed. phys. ess. II. 412; a sediment only, with convulsions. *Morgagni*, ep. 40, art. 16. *Simmons*, Phil. trans. 1774. 108; discharged from the loins. Erratt, M. Med. soc. Lond. V. 53. *Lowdell*, M. Med. soc. Lond. I. 315; supposed in the bladder. Schützercrantz, M. Ac. Stockh.; Med. facts. VII. 285. *Baillie's* engr. 129, 131.

B. Calculous matter being discharged. Nephralgia arenosa, *Sauvages*, II. 113. Bonet. sep. obs. 21. 27. *Monro*, Ed. med. ess. V. ii. 665; in the ureters. *Morgagni*, ep. 4, art. 2; ep. 10, art. 11; ep. 11, art. 6; ep. 40, art. 4; ep. 57, art. 10. *Phil.* trans. 1765. 128; a stone.

2. *Lithiasis vesicalis.* Dysuria irritata, Cull. syn. cxxv. 5. See Ischuria vesicalis † B, xxiii. *Brown*, Ed. med. ess. IV. 297; on a needle. *Houstet*, M. Ac. chir. I. 395; encysted. *Walpole*, Phil. trans. 1751. 43. 1752. 472; *Lecat*, 1751. 292; the symptoms produced by fungous excrescences; *Warner*, 1762. 475; with a bone; *Walpole* and *Whytt*; 1757. 205, 385; *Warner*, 1758. 579. 1759. 304; cut from the urethra; 1761. 258. *Morgagni*, ep. 4, art. 2; ep. 42, art. 8. 42; ep. 45, art. 8. Dysuria calculosa, *Sauvages*, II. 391. *White*, Med. obs. inq. III. 1; with prolapsus uteri and vesicae. *Livingston*, Ed. phys. ess. III. 546. *Louis*, M. Ac. chir. III. 332; with ul-

ceration. *Dawson*, Med. trans. II. 105. *Med.* comm. Ed. III. 333; cured by injection in Arabia. Hartenkeil de vesicae calculis. 4. Wurtzb. 1785. *Chandler*, Lond. med. journ. V. 387; *Lucas*, XI. 237. *Lane*, Phil. trans. 1791. 223. Austin on the stone. 8. Lond. 1791. *Johnstone*, M. Med. soc. Lond. III. 536; discharged by the rectum. *Baillie's* engr. 143, 147, 151. *Brande* and *Home*, Phil. trans. 1808. 223, 244; structure. *Earle*, Phil. trans. 1809. 303. Solvents.) Hales and Harty on Stephens's medicines. 8. Lond. *Whytt*, Ed. med. ess. V. ii. 667; lime water. Whytt on lime water. 8. Ed. 1755. *Simpson*, Phil. trans. 1757. 221; soap. *Lane*, Med. trans. I. 112. *Med.* comm. Ed. V. 441; fixed air. *Harrison*, M. Med. soc. Lond. I. 225; potass and sulfuric acid. Falconer on alkaline water. *Copland*, M. Med. soc. Lond. V. 71. VI. 601; muriatic acid. Lithotomy.) Lithotomia Douglassiana. 8. Lond. 1720. Douglas on the lateral operation. 4. Lond. 1726. Ledran on extracting the stone. 8. 1731. *Barry*, Ed. med. ess. I. 321; bladder scirrhous after the operation. *Foubert*, M. Ac. chir. I. 650; *Louis*, III. 623. *Vicq d'Azyr*, M. Soc. R. méd. II. 579; on Cheselden's operation. Moltens bemerkung. 8. Cassel, 1779: between the coats. Sammlung zur geschichte des blaseneinschnitts. 8. Leipz. 1785; Günz, Maret, Camper, Faguer, Desault, Plattner, de Come, Hausmann, and others. *Camper*, Lond. med. journ. X. 162; dividing the operation. Weldon on lithotomy. 8. Southampt. 1793. *Wickham*, Med. facts. VIII. 126. *Cheston*, Med. records. 163. Earle on lithotomy. 8. 1803. *Smith*, M. Med. soc. Lond. VI. 227. *A. Burns*, Ed. med. journ. IV. 56. Simmons on lithotomy. 12. Manch. 1808. Ed. med. journ. IV. 503. Thomson on lithotomy. 8. Ed. 1808; Ed. med. journ. IV. 500. *Forster*, Medicoch. tr. I. 99; *Thomas*, I. 122; dilating the f. urethra. *Lawrence*, Ed. med. journ. V. 136; *Simmons*, V. 326. VI. 61; on the cutting gorget. *Chevalier*, Medicoch. tr. II. 200.

XXXV. DIABETES.

Diabetes.

A discharge of saccharine matter in the urine.

1. D. *mellitus.*

Diabetes mellitus. Cull. syn. lxxii. 1. Aretaeus? chr. II. ii. Gal. loc. aff. VI. 3, 4. Forest. XXIV. 4. Barthol. hist. an. I. 68. Schenk. III. ii. 162-9. Bonet. sep. III. xxii. 8, xxvi. 1. 5. Tulp. II. xlvi. Sydenh. ep. ad Brady. Ruysch obs. 13. Mead pois. i; Mon. med. IX. ii. Dover's legacy; alum whey. Diabetes Anglicus, *Sauvages,* II. 384; febricosus, 385. Gooch, I. 417. Brisbane's cases. *A. Fothergill,* Med. obs. inq. III. 138; *Dobson,* V. 298. Trnka de diabete. Vienn. 1778. Meyers de diabete. 8. Ed. 1779; Webster m. pr. II. 92. *M'Cormick,* Dunc. med. comm. IX. 349; Dover's powder. *Cawley,* Lond. med. journ. IX. 286; quantity not increased; *Werner,* XI. 221. Girdlestone on diabetes. 8. Yarm. 1794. *Rollo* on diabetes. 2 v. 8. Lond. 1796; Dunc. ann. 1797. 85. Marabelli sull'orina di diabete. 8. Dunc. ann. 1798. 215. * *Baillie,* Tr. soc. med. ch. kn. II. 70. *Duncan* and *Monro,* Dunc. ann. 1803. 388; arteries scarlet within; but, according to Bichat, this is no uncommon appearance. *Bostock,* M. Med. soc. Lond. VI. 237. *Rutherford,* Ed. med. journ. I. 314; *Fraser,* II. 16; tonics; *Alley,* IV. 35. Watt on diabetes. 8. Paisley, 1808; Ed. med. journ. V. 85. *Watt,* Ed. med. journ. V. 287. Latham on diabetes. 8. London. * *Wollaston,* Phil. trans. 1811. 96; nonexistence of sugar in the blood. *Henry,* Medicoch. tr. II. 118.

XXXVI. LEUCORRHOEA.

Whites.

A pale coloured discharge from the uterus or vagina.

1? L. *repentina.* Sudden and occasional.
2? L. *period'ica.* About the period of the catamenia.
3. L. *contin'ua.* With little intermission.

LEUCORRHOEA. *Sauvages,* II. 397. Oribas. IX. xlviii, xlix. Aët. IV. iv. 67, 72. Forest. XXVIII. n. 19. .37. Plater. obs. III. 781. Horst. opp. II. 280. Ballon. cons. I, II, III, passim. Barthol. act. Hafn. I. n. 83; in an infant. Mauriceau, I. 457. II. 147. Hofm. III. 348. Junck. 133. Astruc mal. f. II. 188. *Morgagni,* ep. 47, de fluore muliebri; ep. 67, art. 14. Raulin Traité des fleurs blanches. 2 v. 8. Par. 1766; Germ. abr. by Riederer. 8. Nur. 1793. Fordyce surg. fr. Ramel. Journ. méd. LXIV. 585. Keating de leucorrhoea; Webster m. pr. III. 235. Stoll rat. med. VII. 158; prael. II. 382, 409. Trnka historia leucorrhoeae. 8. Vienn. 1781. Hofmann, Bald. N. mag. III. 265. IX. 135. *Speer,* Dunc. med. comm. VII. 356; simarouba.

1. *Leucorrhoea repentina. Heberden,* comm. sect. de uteri morbis. Perhaps a symptom of dropsy.

2. *Leucorrhoea periodica,* Menorrhagia decolor, *Sauvages,* II. 311.. Sennert. morb. mul. viii. Scarcely distinct from the next species.

3. *Leucorrhoea continua.* Menorrhagia alba, Cull syn. xxxix. 5; Nabothi, 6; the latter in pregnancy.

(† Ulceris, obstructionis, symptoma.)

(CONCRETIO. See colica, inflammatio.

DYSODIA. *Sauvages*, II. 418. Horst. opp. II. 553. Wepf. obs. 920. Bald. N. mag. IV. 425. Weikard verm. schr. III. 37. 1. General] Bald. N. mag. VII. 554; with amenorrhoea. 2. Oral] Aët. II. iv. 17. Forest. XIV. 19. Plater. quaest. 53. Ballon. cons. I. 41. II. 11. 3. Nasal] Oribas. VIII. xxix, xxx. Forest. XIII. 2. 4. Cutaneous] Oribas. VIII. xxxvi. Forest. XVII. 29.

CATACAUSIS. Pl. Barthol. hist. an. I. 70; act. Hafn. I. 118. Bianchi, Phil. trans.; *Wilmer*, 1774. 340; a good authority.

CACOGALIA. Pl. Vitiated secretion of milk. Forest. XVII. 21; Mauriceau, 437; cheesy. Barthol. act. Hafn. II. n. 62; bitter. Bonet. pol. III. 380; bloody. *Morgagni*, ep. 50, art. 47; various instances.

Cacospermatia. Worms de causa immunditiei spermatis apud Ebraeos. 4. Giess. 1768. Heberd. comm.)

CLASS IV.

PARAMORPHIAE.

STRUCTURAL DISEASES.

ORDER I. *PARAPHYMATA.* LOCAL CHANGES.

Galen on tumours. Arantius de tumoribus. Astruc on tumours and ulcers. Brown on tumours. Plenck systema tumorum. 8. Vienn. 1766.

XXXVII. PHTHARMA.

Depravation.

Diseased alteration of structure in a living part, without change of dimensions.

1. Ph. *os'sium.* Softness or brittleness of the bones.
2. Ph. *ossificátio.* Conversion of muscle or cellular membrane into bone.
3. Ph. *cutáneum.* Hardness or harshness of the skin.
4. Ph. *calígo.* Simple opacity of the cornea.
5. Ph. *glaucóma.* Opacity of the humours of the eye.
6. Ph. *catarac'ta.* Opacity of the crystalline lens.
7. Ph. *viscerále.* Interstitial change of a viscus.

1. *Phtharma ossium.*

A. Softness, from want of the earthy part. Forest. XVII. n.

15. Schenk, V. n. 244. Courtial, Ac. Par. 1700. Monro's osteology. Pott, Phil. trans. n. 459; Bevan, n. 470. Haller de induratis partibus. *Hosty*, Phil. trans. 1753. 26; *Pringle*, 297; like liver. Morand, Ac. Par. 1753. Gooch's cases. *Morgagni*, ep. 58, art. 4..6; ep. 68, art. 4. Asthenia ab osteosarcosi, *Sauvages*, I. 804; Ostocopus ab osteosarcosi, II. 28; Rachialgia osteosarcosis, 137. Swiet. comm. IV. 330. Chalmers Carol. Macbride introd. II. 379. Balfour, Med. obs. inq. IV; Cooper, V; *Thomson*, V. 259; Med. comm. Ed. IV. 187. Saillant, Ac. Par. 1779. Cheston's observations. Stoll rat. med. IV. 352. *Goodwin*, Lond. med. journ. VI. 288. VIII. 67; *Hunter*, 70. Ekman de osteomalacia. 4. Ups.; Dunc. med. comm. XV. 1. Fremery et Paradys de mutationibus figurae pelvis. 4. Leyd. 1793.

B. Brittleness. Lieut. hist. an. obs. 206. *Pringle? Kentish*, Dunc. med. comm. XV. 1; " latent cancer," after extirpation.

C? Fungus intermixed. *Morgagni*, ep. 68, art. 4. Ludwig chir. 191. Exostosis osteosteatoma, *Sauvages*, I. 160. Pott, Phil. trans. Murray de osteosteatomate. Ups. 1780. Balding. N. mag. II. 495.

2. *Phtharma ossificatio.* Might be called osteogenes, if Hederic were a sufficient authority, " ossa procreans." Probably can seldom be ascertained during life. Stalpart? II. 35. Machin? Vater? Phil. trans.

A. Of muscles or tendons. Wepfer obs? 741; from labour. Pechlin, II. obs. 40. Vandermonde, 1758. *Henry*, Phil. trans. 1759. 89, 92. 1761. 143; salivation. Catochus scorbuticus, *Sauvages*, I. 546. Haller de induratis corporis humani partibus. Gott. 1783.

B. Of membranous parts. Guattani de aneurysmatibus; aorta. *Baillie*, Tr. soc. med. chir. kn. I. 133. *Baillie's* engr. 33, pleura; 43, lungs.

3. *Phtharma cutaneum.* Catochus cutaneus, *Sauvages*, I. 546. Zacut. pr. 398. Diemerbr. anat. 747. More, Vater, Phil. trans. Curzio Raro morbo. Nap. 1755.

B? Changes of the nails. Aët. IV. ii. 79. Plater. obs. III. 588. Barthol. act. Hafn. I. 116; epist. II. 729, 732. IV. 258. See epiphymata.

4. *Phtharma caligo.* Caligo corneae, Cull. syn. xcii. 2. Generally an ecphyma. Caligo a nephelio, a leucomate, *Sauvages*, I. 726. *Swieten*, Med. obs. inq. II. 232; sublimate. *Farar*, Med. commun. II. 463; in infants, gradually disappearing.

5. *Phtharma glaucoma.* Caligo humorum, Cull. syn. xcii. 4. Bonet. sep. I. xviii. 6. Rhodius, I. obs. 63; "a worm." Caligo hypoaema, lactea, *Sauvages*, I. 729. Ferras, Journ. méd. XLV. Richter N. comm. Gott. IV. 80; Wundarzn. III. Cavallo on electricity. Seldom idiopathic.

6. *Phtharma cataracta.* Caligo lentis, Cull. syn. xcii. 1. Glaucosis, Hipp. Hypochysis, Gal. Forest. XI. 30, 31, 33. Horst. opp. II. 102, 104. Maitre Jan de l'oeil. St. Yves. Brown of tumours. Hofm. Suppl. II. ii. *Monro*, Ed. med. ess. V. ii. 603. Hope, Phil. trans. 1752. 530; on Daviel's method. *Sharp*, Phil. trans. 1753. 161, 322. *Daviel*, M. Ac. chir. II. 337; *Hoin*, 425; capsular; *Lafaye*, *Morand*, and *Verlac*, 578, 585. *Young*, Ed. phys. ess. II. 324. Lander de cataracta. 8. Ed. 1758; Smellie thes. II. 471. *Morgagni*, ep. 13, de oculorum affectibus, art. 14... ep. 63, de caecitate, art. 4; art. 11; capsular. *Cantwell*, Phil. trans. 1762. 519; Daviel's mode. Cataracta, *Sauvages*, I. 719. *Borthwick*, Med. comm. Ed. II. 84. Pellier, Journ. méd. XLII; capsular. Richter von der

ausziehung des grauen staars. Gott. 1773; Med. comm. Ed. V. 274; Engl. 8. Lond. 1790; extracts the capsule; Wundarzn. III; capsular. *Knox*, Dunc. med. comm. IX. 303; electricity. Saxtorph, Act. med. Hafn. II; caps. Wathen on the cataract. Stoll rat. med. III. 403. Fieliz, Bald. N. mag. X. 176. *Lucas*, Med. obs. inq. VI. 250. *O'Halloran*, Tr. Ir. Ac. II. 121; Lond. med. journ. X. 395. *Kite*, VII. 141; *Sparrow*, IX. 109. *Wenzel's* mode. Dunc. med. comm. XIII. 246. Wenzel on the cataract. 8. 1791. *Sparrow*, Med. facts. I. 43. Conradi über die ausziehung des grauen staars. 8. Leipz. 1791. Beer über den grauen staar. 8. Vienn. 1791; Dunc. ann. 1800. 105, 123; with the capsule. *Ware*, M. Med. soc. Lond. III. 12; dispersion. *Ware* on cataract and epiphora. 8. Lond. 1795. Schiferli über den grauen staar. 8. Jen. 1797. *Borthwick*, Dunc. ann. 1799. 466. Earle's new mode of operating for the cataract. 8. Lond. 1801. *Monnet*, Dunc. ann. 1802. 416; punctures the posterior part of the capsule. S. Cooper on the cataract. 8. Lond. 1805. *Home*, Phil. trans. 1807. 83; native. *Wardrop*, Ed. med. journ. V. 1. Muter on the cataract. 8. Lond. 1811. *Ware* on cataract and gutta serena. 8. Lond. 1811. Saunders on diseases of the eye. Travers; punctures the anterior part of the capsule only. Most of these works relate principally to the operation.

† Caligo pupillae, palpebrarum, Cull. syn. xcii. 3, 5, are symptoms of paralysis, contractura, or ecphyma, or consequences of inflammation or ulceration.

7. *Phtharma viscerale.* Generally a sequel of inflammation. See ecphyma. For instance, Scirrhus lienis sine tumore, *Sauvages*, I. 144; "sclerysma."

XXXVIII. RHAGAS.

Chop.

A simple spontaneous solution of continuity.

1. Rh. *cutánea.* Of the skin.

1. *Rhagas cutanea.* Rhagas, *Sauvages*, I. 241. Theden N. bem. II. 261.

XXXIX. CURVATURA.

Curvature.

A simple change of the form of a bone.

1. C. *adscitit'ia.*

1. Curvatura adscititia. Seldom occurs independently of rhachitis, phtharma, or caries. Galen on Hippocr. on joints, II. Forest. XXIX. 23. Barthol. ep. III. 330. Bonet. sep. II. xii. 902... Severin. rec. absc. n. VI. Ruysch. obs. 67. *Morgagni*, ep. 27, art. 31... Levacher, M. Ac. chir. IV. Richt. chir. bibl. VII. 321-2.

A. Of the spine or thorax. Gibbositas, *Sauvages*, I. 160.

B. Of the legs. Lordosis, *Sauvages*, I. 161, sometimes.

C. About the joints. Loxarthrus, *Sauvages*, I. 232. sometimes.

XL. CONTRACTURA.

Contraction.

A permanent contraction of a soft part.

1. C. *musculáris.* Of a muscle.
2. C. *superficiális.* Of the skin. "Hidebound."
3. C. *pupilláris.* Of the pupil.
4. C. *laryngéa.* Of the larynx.
5. C. *oesophagéa.* Of the oesophagus.
6. C. *intestinális.* Of the intestinal canal.
7. C. *ureter'ica.* Of the ureter.
8. C. *urethrális.* Of the urethra. Stricture.
9. C. *phimósis.* Of the prepuce.

† Emphragma lacrymale, xli.

COTRACTURA. Forest. XIV. 18; Ruysch, 82; of a membrane.

1. *Contractura muscularis.* Contractura primaria, Cull. syn. cxvi. 1. Forest. X. obs. 114? Monro lect. Haen rat. med. III. 209. Contractura, *Sauvages,* I. 537; Obstipitas, 536; sometimes: but the species enumerated are symptomatic of paralysis, entonia, or scorbutus, or sequels of inflammation, or inflammatory affections. Ed. med. comm. V. 313?

† Contractura articularis, Cull. syn. cxvi. 2. See ecphyma ancylosis.

2. *Contractura superficialis.* See Phtharma cutaneum. *Watson* from Crusio. Phil. trans. 1754. 579; mercury and sarsaparilla. Berdmore? gums.

3. *Contractura pupillaris.* Caligo pupillae, Cull. syn. xcii. 3. Caligo a synizesi, *Sauvages*, I. 19. Mauchart. Woolhouse.

4. *Contractura laryngea.* *Jackson*, Med. comm. Ed. VI. 208; the patient seems to have drawn air into the oesophagus at each inspiration. Y.

5. *Contractura oesophagea.* Dysphagia, Cull. syn. cxv; sometimes. D. pharyngea, oesophagea, *Sauvages*, II. 79; sometimes. There is generally a tendency to scirrhus in such contractions. *Munckley*, Med. trans. I. 165; salivation. *Odier;* Med. comm. Ed. III. 193; conium and a compress. *Patten*, Lond. med. journ. X. 356; mercury. *Johnstone*, M. Med. soc. Lond. II. 177; *Farquharson*, 357; with scirrhus. Monro de dysphagia. 1797. *Baillie's* engr. 51, ulcerated; 53. Home on strictures. Monro on the alimentary canal. See carcinoma.

† Asthenia deglutitionis.

6. *Contractura intestinalis.* Ascertainable by examination. *Hunter* and *Watson*, Phil. trans. 1777. 608; Maty. *Johnstone*, Med. comm. Ed. V. 302; obstipatio. *Sherwen*, M. Med. soc. Lond. II. 9; scirrhocontracted, also *R. White*, IV. 225. *Baillie's* engr. 75; scirrhous. See obstipatio, xxii.

7. *Contractura ureterica.* See Ischuria ureterica. † F, xxiii.

8. *Contractura urethralis.* See Ischuria urethralis † I, xxiii. *Petit*, M. Ac. chir. I. 434; dysecbolia. *Lecat*, Phil. trans. 1751. 328. *R. W. Darwin*, M. Med. soc. Lond. III. 507; supposed a blennorrhoea vesicalis; *Ward*, 535; ischuria. *Abernethy* on diseases of the urethra, surg. obs. ii. *Baillie's* engr. 169. *Home* on strictures. II. 8. Lond. 1804, 1806; Ed. med. journ. I. 81. Whateley on strictures. 8. Lond. 1804; Ed. med. journ. I. 214; *Carmichael*, 416; caustic; *Anderson*, III. 24. *Andrews* on lunar caustic. 8. Lond. 1807; Ed. med.

journ. IV. 219. *S. Cooper*, Ed. med. journ. V. 333: haemorrhage from caustic. Luxmore on strictures, fistula, and tinea. 8. Lond. 1809; Ed. med. journ. VI. 103; simple bougie.

9. *Contractura phimosis.* See Ischuria urethralis † N. Phlogosis phlegmones varietas, Cull. syn. vii. 1. Phimosis, *Sauvages*, I. 151.

A. Phimosis vera, Sauv. 151. Heist. chir. c. 130.

B. Paraphimosis. Phimosis circumligata, Sauv. 152. Paul. Aeg. VI. 55. Astr. morb. ven. III. viii.

XLI. EMPHRAGMA.

Stoppage.

A tumour occasioned by a contraction or obstruction.

This genus differs only in degree from some of the order epischeses, since, speaking correctly, it implies a defect in the secretion: but the tumour being a more prominent feature of the disease than the retention, it may most properly be placed in this class. The three first species are also eruptive diseases.

1. E. *sebáceum.* Of the pores or sebaceous glands of the skin.
2. E. *piláre.* At the root of a hair.
3. E. *cuticuláre.* Under the cuticle only.
4. E. *lacrymále.* In the lacrymal sac or duct.
5. E. *maxilláre.* Of the antrum.
6. E. *saliváre.* Of the salivary ducts.
7. E. *spermat'icum.* Of the seminal passages.

1. *Emphragma sebaceum.*

A? In children. Perhaps the crinons of Sauvages and others. Horst. morbus pilaris. Crinones, Ettmull. Atrophia a crinonibus, *Sauvages*, II. 462 ; Malis a crinonibus, 552 ; *Bassignot*, M. Soc. R. méd. I. 173. Said to be hairs, but to be discharged by rubbing them.

B. In young persons, generally causing some inflammation.

C. Of the eyelid. Hordeolum steatomatosum, siro ? *Sauvages*, I. 157.

2. *Emphragma pilare.* See Licheniasis. A matter of a mucosebaceous nature collects round the root of a hair, and sometimes causes inflammation. Possibly the morbus pilaris ought to be referred to this species.

3. *Emphragma cuticulare.* A hard white point, generally near the eyes. It may be removed by the inflammation and absorption, excited by scraping it a few successive mornings with a razor.

4. *Emphragma lacrymale.* Fistula lacrymalis. Aegilops. Sennert. *Monro*, Ed. med. ess. III. 279. *Bordenave*, M. Ac. chir. II. 161 ; *Delaforest*, 175 ; *Louis*, 193. Pott on the fistula lacrymalis. 8. Lond. 1758. Epiphora ex aegilope, *Sauvages*, II. 373. *Vicq d'Azyr*, M. Soc. R. méd. I. 367. *Blizard*, Phil. trans. 1780. 239. Richter, Comm. Gott. ; Lond. med. journ. II. 77 ; the passage generally obstructed by morbid matter ; introduces a probe into the duct. Wathen on fistula lacrymalis. 4. Lond. 1781 ; Lond. med. journ. II. 245 ; a tube.

5. *Emphragma maxillare. Monro*, Ed. med. ess. V. 403.

6. *Emphragma salivare.* Ranula. Often with fistula. Bonet. sep. I. xxi. 17. *Monro*, Ed. med. ess. II. 249. III. 261. *Duphenix* and others, M. Ac. chir. III. 431 ; *Louis*, 460. IV. 263.

865. V. 406. Peuffler, Journ. méd. XXXIX. 160; the duct obliterated. *Gill*, Dunc. med. comm. XII. 322. See Inflammatio phlegmonica.

7. *Emphragma spermaticum.* Spermatocele, *Monro*, Ed. med. ess. V. 324; Arnaud on hernia; *Morgagni*, ep. 43, art. 39. Oscheocele seminalis, *Sauvages*, I. 170.

XLII. EMPHYSEMA.

Inflation.

A tumour containing air, and consequently compressible and sonorous.

1. E. *cellulâre.* In the cellular membrane, crackling when pressed.
2. E. *tympanit'icum.* In the intestines, with costiveness, and generally borborygmi.
3. E. *abdominâle.* In the cavity of the peritonaeum.
4? E. *uterinum.* In the uterus.

1. *Emphysema cellulare.* Pneumatosis, Cull. syn. lxxii; spontanea, 1, venenata, 3, hysterica, 4. Oribas. VII. 50. River. II. obs. 69. Severin. rec. absc. nat. IV. ix. 16. Sydenh. diss. ep. 41. Brown of tumours. Combalusier pneumatopathologia. Emphysema, *Sauvages*, I. 142; Mastodynia emphysematosa, II. 134; Pneumatosis, 468. Brown of tumours. Herbin, Journ. méd. L. 431. Wilmer's cases. Hunter, Med. obs. inq. II. n. 2. *Huxham*, Med. obs. inq. III. 28; *Russel*, 397; fracture. *Kellie*, Med. comm. Ed. II. 427; paracentesis; an abscess found after death. *Swediar*, Lond. med. journ. II. 408; from coughing. *Simmons*, Med. commun. I. 176; labour pains. *Lloyd*, Med. obs. inq. VI. 192; communicating with the ear; the bone ca-

rious. † *Darby*, Lond. med. journ. VIII. 407; wound. Theden N. bem. II. 76. *Blagden*, Med. facts. II. 45; labour pains. *Baillie*, Tr. soc. med. ch. kn. I. 202; general, without violence or putridity. Holyoke, Amer. Ac.; Med. facts. VII. 259. Halliday on emphysema. 8. Lond. 1807; Ed. med. journ. IV. 351.

B? Pneumatocele? Forest. XXVII. 25. Brown tum. 349. *Monro*, Ed. med. ess. V. 329. *Morgagni*, ep. 43, art. 35. Pott on hydrocele, 216. Oscheocele flatulenta, *Sauvages*, I. 169.

† Pneumatosis traumatica, Cull. syn. lxxii. 3; vulneris symptoma.

2. *Emphysema tympaniticum*. Tympanites intestinalis, Cull. syn. lxxiii. 1. Hippocr. 555; typhus 4; aph. II. iv. Galen on diet in ac. d. Al. Trall. III. Forest. XIX. n. 43. .46, XXI. 8. Fabr. Hildan. VI. obs. 74. Plater. obs. III. 656; worms. Horst. opp. II. 204. Schenk. III. ii. 152. Willis ph. rat. II. ii. 4. Tulp. II. xxxv. Baglivi. Littre, M. Ac. Par. 1773. Hofm. III. 339. Junck. 87. Boerh. 226. *Monro*, Ed. med. ess. I. 294. Raulin mal. vap. *Morgagni*, ep. 38, de tympanite. Brendel. Combalusier. Tissot febr. bil. Zeviani del flato. Tympanites, *Sauvages*, II. 513; sometimes; Meteorismus, 518; either acute or partial. Arcey, Journ. méd. LIV. 402. Störck ann. II. 190. Stoll prael. I. 89. Trnka historia tympanitidis. 8. Vienn. 1788. Selle N. beitr. II. 11, 14, 106, 109. Balding. N. mag. XI. 351; costiveness. Richt. chir. bibl. IX. 17. *Graves*, Med. facts. I. 90; M. ventriculi, Sauv. *Collins*, Ed. med. journ. I. 298. See colica.

3. *Emphysema abdominale*. Tympanites abdominalis, Cull. syn. lxxiii. 2. Ballon. paradigm. 241. Heist. wahrn. I. 28. Combalusier. Zeviani. Mead monita. Lieut. hist. an. I. 432. *Morgagni*, ep. 38, art. 24, 25. Tympanites abdominalis, *Sau-*

vages, II. 515; † Stuartii, 518; from a wound; Ascites flatulentoperitonaeus, 508.

4. *Emphysema uterinum.* Physometra, Cull. syn. lxxiv. Ambr. Paré, XXV. 34; with water. Salmuth, II. obs. 57. Astruc mal. f. II. ix. Physometra, *Sauvages*, II. 512.

XLIII. EXANGEIA.

Dilatation.

Enlargement of a bloodvessel.

1. E. *aneurys'ma.* A pulsating tumour of an artery.
2. E. *várix.* An enlargement of a vein.
3. E. *intermédia.* A tumour formed by the enlargement of the capillary vessels.
4. E. *mixta.* †A pulsating tumour of a vein, from communication with an artery.

1. *Exangeia aneurysma.* Aneurysma, Cull. syn. cxxviii. Galen tum. II. Forest. chir. I. obs. 15. Horst. II. 430. Arant. de tum. Barthol. ep. I. 270. III. 219. Severin. rec. absc. nat. IV. vii. Schenk. V. 211. Lancisi de motu cordis et de aneurysmatibus. 4. Leyd. 1740; seems to fancy that the name of a proposition constitutes the essence of mathematical reasoning; Subit. mort. 63. Ruysch obs. 38. Brown on tumours. Cooper, Gooch, Douglas, Phil. trans.; Dougl.; heart. Heist. inst. chir. 391. *Macgill*, Ed. med. ess. II. 255; *Monro*, 264, 279. IV. 299. *Foubert*, M. Ac. chir. H. 535; false an. Monro's works. *Warner*, Phil. trans. 1757. 363. *W. Hunter*, Med. obs. inq. I. 323; *Lambert*, II. 360; stitching a wounded artery. *Morgagni*, ep. 17, 18, de respiratione laesa a cordis aut aortae intra thoracem aneu-

rysmatibus; ep. 26, de morte repentina ex vitio vasorum sanguiferorum potissimum in thorace; ep. 50, de tumoribus, art. 8; ep. 58, art. 13... Haen rat. med. IV. ii. §. 7. V. vi. VII. ii. IX. ii. §. 5. Aneurysma, *Sauvages*, I. 162. W. Hunter's observations. *Bayford*, Med. obs. inq. III. 14; aorta; *Thomson*, 57; *Burchall*, III. 106. *D. Monro*, Ed. phys. ess. III. 178. Guattani de aneurysmatibus. 4. Rom. 1772. *Leslie*, Med. comm. Ed. II. 176; femoral. *Gooch*, Phil. trans. 1775. 378. *Dehorne*, M. Soc. R. méd. III. 298. Wrainitz Geschichte eines abgestorbenen oberarms. 8. Freyb. 1782; mortification from ligature on the tumour. *Hall*, Med. obs. inq. VI. 23. *Simmons*, Med. commun. I. 118; and *Watson*, 178; aorta. Lauth collectio de aneurysmatibus. 4. Strasb. 1785; Lancisi, Guattani, Matani, Verbrugge, Weltin, Murray, Trew, Asman. *Home*, Lond. med. journ. VII. 391. VIII. 126; Hunter's operation; *Kinglake*, 385; compression; *Ford*, IX. 142; thigh; spontaneous cure. *Clark*, Dunc. med. comm. XIII. 326; crural; was recovering after gangrene. † *J. Pearson*, Med. commun. II. 95; caries, with symptoms of aneurysm. *Concanen*, Dunc. med. comm. XV. 387; aorta. *Luxmore*, M. Med. soc. Lond. III. 404. *Blagden*, Med. facts. II. 48; spontaneous cure. *Baillie*, Tr. Soc. med. ch. kn. I. 119; *Home*, 138; Hunter's operation. *Forster*, Med. facts. V. 1; popliteal. *Bird*, M. Med. soc. Lond. IV. 406. *Forster*, Med. facts. VI. 114. Theden N. bem. II. 72. Weikard verm. schr. II. 48. *Mr. W. Hunter*, M. Med. soc. Lond. V. 349. *Blane*, Tr. soc. med. ch. kn. II. 192; carotids; *Home*, 255; popliteal; *Wilson*, 268; spontaneous cures, one sloughing. *Baillie's* engr. 15, 17. Scarpa sull'aneurisma. f. Pav. 1804; Engl. by Wishart. 8. Ed. 1808; Ed. med. journ. III. 473. IV. 347; *Abernethy*, III. 46; external iliac tied; Scarpa on spurious aneurysm, Loders journ. 161; *Dawson*, 404; popliteal. Freen on aneurysm. 4. 1807. *Cooper*, Medicoch. tr. I. 1; carotid tied, without success; 222; successfully. *Hosack*, Ed. med. journ. V. 182; femoral. A. Burns on diseases of the heart. 8. Ed. 1809; Ed. med. journ. V. 340; *W. Young*, VI. 438; spurious; subsided.

Hutchinson on popliteal aneurysm. 8. Lond. 1811. *Armiger*, Medicoch. tr. II. 242; difficulty of swallowing; *Cooper*, 249; dissection.

B. Of the heart, approaching to Ecphyma physconia. Ed. med. ess. II. n. 23. Douglas, Phil. trans. *Morgagni*, ep. 17; ep. 18, art. 4; ep. 21, art. 49; ep. 26, art. 31, 33; ep. 27, art. 12. Portal, Ac. Par. 1784.

2. *Exangeia varix*. Varix, Cull. syn. cxxix. Forest. XXIX. obs. 24, 25. Severin. rec. absc. nat. IV. ix. 13. Mauriceau, I. 144. Varix, *Sauvages*, I. 163. *Else*, Med. obs. inq. III. 169; false varices, some from accidents, mistaken for aneurysms. Michaelis, Richt. chir. bibl. V. 123. Theden N. bem. I. 59. II. 75; v. cava. *J. Pearson*, Med. facts. VI. 96; a distended vein appearing to produce great pain. *Home* on ulcers.

A. Piles. Haemorrhois tumens, Cull. syn. xxxviii. 1; caeca, 4. Junck. 11, 12. Alberti de haemorrhoidibus. Haen de haemorrhoidibus. 8. Vienn. 1759. Marisca, *Sauvages*, I. 164. *Baillie's* engr. 77. Ware on the eye. 8. Lond. 1805; Ed. med. journ. II. 233. Earle on haemorrhoidal excresences. 8. Lond. 1807. Sometimes relieved by pressure. Y.

B. Cirsocele. Forest. XXVII. 24. Goulard's surg. Heister. Platner. *Monro*, Ed. med. ess. V. 322. *Morgagni*, ep. 43, art. 36. Sharp. Sarcoma varicocele, *Sauvages*, I. 154; Oscheocele varicosa, 170. † *Dyson*, M. Med soc. Lond. III. 556; accident.

C. In the extremities. *Oldknow*, Ed. med. journ. V. 175; death from tying the vena saphena.

3. *Exangeia intermedia*. Aneurysm by anastomosis. *Hill*, Med. comm. Ed. III. 313; eyebrow. Abernethy surg. obs. ii? a species of naevus. *Travers*, Medicoch. tr. II. 1; in the orbit;

cured by tying the carotid; a pulsation remained, but the tumour diminished.

4. *Exangeia mixta.* Varicose aneurysm, a sequel of a wound. *W. Hunter,* Med. obs. inq. II. 390; *Cleghorn,* III. 110. Guattani. *W. White,* Med. obs. inq. IV. 377; *Armiger,* 382; *Hunter,* 385. *Park,* Med. facts. IV. 111.

XLIV. HYDROPS.

Dropsy.

A tumour of a natural cavity, containing a watery fluid, manifested by its fluctuation or softness.

Abscesses are generally distinguishable from dropsies by the formation of a preternatural cavity, as well as by the inflammation preceding them, although dropsy is sometimes a sequel of inflammation.

1? H. *bul'la.* Under the cuticle only.

2. H. *anasar'ca.* In the cellular membrane, an impression of the finger remaining for some time.

3. H. *cap'itis.* In the external parts of the head, the fluctuation being observable in children at the fontanelle.

4. H. *spínae.* Of the spinal marrow, generally observable by means of a defect in the vertebrae.

5. H. *oc'uli.* A simple enlargement of the eye, the cornea being protruded.

6. H. *thorácis.* With livid lips, respiration more difficult in the horizontal posture, and generally starting from sleep.

7. H. *pericar'dii.* With oppression at the heart, palpitation, and some difficulty of breathing.
8. H. *ascítes.* Of the whole abdomen.
9. H. *ovárii.* Beginning from one or both of the iliae regions, the fluctuation being at first obscure.
10. H. *úteri.* In the hypogastrium, with some fluctuation.
11. H. *soróti.* Of the scrotum; semitransparent.
12. H. *cacotroph'icus.* Anasarca with stiffness of the joints and tenderness about the cardia.

† Asthenia beriberia, iii.

HYDROPS. Dropsy in general, and general dropsy, especially anasarca. Hipp. aph. 3..7; dis. I, II; int. aff. 543-5; epid. V; on air. Aretaeus chr. II. i. Galen. loc. aff. V. vii; sympt. caus. III. viii. Cael. Aur. 468, 471. Fern. cons. xxxii... Arant. tum. Forest. XIX. 14..39. Plater. obs. III. 630..655. Horst. opp. II. 199, 200, 271, 439, 529. Ballon. opp. I. 192; cons. I. 24, 39, 71. II. 8. III. 102. Severin. rec. absc. nat. IV. 35. Barthol. ep. I. 290. III. 132, 327, 338. IV. 76, 200, 202, 401. Schenk. III. ii. 116..123. iv. 143. Bonet. pol. de hydrope. IV. c. 47; med. sept. 705. Willis. ph. rat. II. ii. 3, 5. Mauriceau, II. 81. Morton phthis. I. x. Malpigh. opp. II. 232. Ruysch obs. n. 70, 86, 87; thes. anat. X. Glisson de rach. 14. Bont. med. Ind. ix. Duverney Ac. Par. 1701. 181, 193, 1703. 181; Littre, 111; Mery, 1706. 33; Littre, 1710. 52. 1713. 111. Helmont de hydrope. Garengeot, I. 405; Ed. med. ess. I. 242; defence of Freind. Hofm. suppl. II. ii. Baglivi pr. m. I. ix. p. 81. Wepf. obs. 117, 630, 853. Werlhof opp. III. 749, 885. Dover's leg. Maloet, Ac. Par. 1732. 350. Ed. med. ess. II. n. 22. IV. n. 30. V. n. 64; *Murray*, V. ii. 637; with a tumour. Younge, Fairfax, Phil. trans. Huxham's works. I. 274. D. Monro de hydrope. 8. Ed. 1753; Smellie thes. II. 191; On dropsy. 8. Lond. 1755. *Oliver*,

Phil. trans. 1755. 46; friction with oil. Laurence de hydrope. 12. Lond. 1756. *Morgagni*, ep. 24, art. 18; ep. 38, de hydrope. Haen rat. med. IV. 77, 96, 125. V. 38, 53, 90. VI. 61, 78, 81, 82, 87, 91. VII. 124. X. 102. XI. 41, 227, 242, 294. XV. 68. *Mackenzie*, Med. obs. inq. II. 287. *Baker*, Med. trans. II. 235. Störck ann. I. 121, 129, 132, 145. II. 177, 245, 265. Lentin mem. 33; beob. 97, 100, 125, 142; fasc. I. obs. 12, 25, 30; epid. 93, 97. Lysons obs. 42. Grant on fevers. Swieten, §. 1219..1240. Hautes. rec. II. Med. comm. Ed. II. 163; Bacher's pill, Extr. helleb. griiss, myrrh. griiss, card. ben. grj, to be tripled, if necessary; Planchon, II. 244. *Garden*, III. 330; ashes of tobacco; Musgrave, IV. 387. V. 194, 415. *Latham*, Phil. trans. 1779. 54. Milman de hydrope. 8. Vienn. 1779, Lond. 1780. Collin de lactuca virosa. 8. Vienn. 1780; Lond. med. journ. I. 263; Dunc. med. comm. XI. 37. *Wright*, Lond. med. journ. I. 266; cupr. sulf. *Camper*, M. Soc. R. méd. VII. 46; *Barailon*, 157. Bennet, Scott, et Vize de hydrope; Webster m. pr. III. 1. *Ring*, Dunc. med. comm. VIII. 83; bark. *Mason*, Med. obs. inq. VI. 19; moderate doses of opium. *Grieve*, Dunc. med. comm. IX. 286; cathartics with diuretics; *Darbey*, 305; vapour bath; *Broughton*, 368. Hunter, Med. trans. III. 192; *Pearson*, 319; scarification; *Knight*, 368; with obstructed liver. Kühlewein de diureticorum noxa. 4. Gott. 1785. Stoll rat. med. I. 295. II. 158, 378. III. 55, 132, 133, 277, 300..; prael. I. 52..82, 299. II. 291. Tissot nerv. dis. Brisb. sel. cas. C. Darwin's exp. *Lond.* med. journ. VI. 55; digitalis, also *J. Warren*, 145. *Dick*, Dunc. med. comm. X. 207; E. Ind. *Cook*, Lond. med. journ. VII. 54. *Hall*, 157; medullary cells filled with a gelatinous fluid. *T. Hamilton*, Dunc. med. comm. XII. 370; cyder. Stark clin. obs. Fink. gallenkr. 73. Schwenkers über wassersucht, von Schmalz. 8. Dresd. 1787. Mezler von der wassersucht. 8. Ulm, 1787. *Lawson*, Dunc. med. comm. XIII. 299. *Wright*, Lond. med. journ. X. 149; cupr. sulf. with opium, a direct diuretic. Daniel system. aegrit. Demiani; Balding. syll. IV. Bald. kr. arm. 204. Willich, Balding. N. mag. VIII. 249. *Garnet*, Dunc. med. comm. XVI.

271; tobacco. Lettsom, M. Med. soc. Lond. I; *Farr*, II. 132; cantharides; *Lettsom*, 145; digitalis; *Winship*, 368; encysted; *Chamberlaine*, III. 561; guaiacum; sudorific, cathartic, and diuretic; *Wright*, 563; digitalis. *Chamberlaine*, 571; friction with oil. Osiander beob. 114; frauenz. 123. Stack cas. Selle N. beitr. II. 17, 24, 39, 82. Weikard verm. schr. III. 145. Blizard. Sachtleben klinik der wassersucht in ihrer ganzen sippschaft. 8. Danz. 1795; with literature. *Grapengiesser* de hydrope plethorico. 8. Gott. 1795; Dunc. ann. 1796. 176; *Guthrie*, 1799. 482; sand as a cathartic. *Walker*, M. Med. soc. Lond. V. 449; 90 pounds; encysted and partly solid. Shuttleworth on dropsy. 8. Liverp. 1808; Ed. med. journ. V. 217.

1. *Hydrops bulla.* Hydatis, Cull. syn. cxxxix, *Sauvages*, I. 165. Boerhaave; hygroma. Deidier consult. Bulla, *Willan* cut. dis.

2. *Hydrops anasarca.* Cull. syn. lxxv. Hipp. int. aff. 521; aph. VI. n. 25. VII. n. 47. diet. ac. IV; ileus. 555. Aret. chr. II. Galen tum. ix; Glauc. II. iii. Orib. VII. xxxv. Cael. Aur. III. viii. Arant. tum. c. 66. Forest. chir. III. n. 1, 2, 4. Plater. obs. III. 669. Mauriceau, I. 446. Sydenh. pass. hyst. Hofm. III. 322. Junck. 87. Boerh. 1225, 791. Brown tum. Langlands de hydrope anasarca. 8. Ed. 1753; Smellie thes. II. 73. *Livingston*, Ed. phys. ess. II. 407; punctures. Anasarca, *Sauvages*, II. 470; Phlegmatia, 474; partial. *Cheston*, Phil. trans. 1780. 323, 578; thoracic duct obliterated; not much emaciation. Unthank de leucophlegmatia. 8. Ed. 1784; Smellie thes. IV. 428. *Dove*, Dunc. med. comm. XVIII. 379, and *Bishopric*, 382; tobacco. Theden N. bem. I. 175. *Abernethy*, Medicoch. tr. I. 27; with livor; the mitral valve ossified. *J. Pearson*, Princ. surg. 293.

A? Anasarca "serosa." Cull. syn. lxxv. 1; including phlegmatia lactea, Sauv. or phl. dolens of others, which is more pro-

perly an ecphyma. B ? oppilata, Cull. 2 ; from pressure on the veins ; as in Lower de corde 123, from tying the jugulars of a dog. C ? A. exanthematica, Cull. 3; After eruptive fevers. D ? A. anaemia, Cull. 4 ; after haemorrhage. E ? A. debilium, Cull. 5. The first species seems to include all the others, which express only the varieties of the causes.

3. *Hydrops capitis.* Hydrocephalus, Cull. lxxvi. Arant. tum. i. Forest. VIII. n. 29. Boerh. 1217. Ed. med. ess. III. 22. *Lecat,* Phil. trans. 1751. 267; tapped gradually without success. *Morgagni,* ep. 12, de hydrocephalo. Hydrocephalus exterior, *Sauvages,* II. 496. Med. trans. II. 18. *Remmett,* Med. comm. Ed. VI. 422 ; repeated punctures seemed to succeed, but there was scarcely any brain in the cranium. *Loftie,* Med. obs. inq. V. 121 ; with abscesses. *Tenghil,* M. Tur. ; Med. facts. VII. 281. See H. spinae.

4. *Hydrops spinae.* Hydrorachitis, Cull. syn. lxxvii. Barthol. ep. III. 149. Tulp. III. xxix, xxx. Ruysch obs. 34-6. Aylett, Rutty, Phil. trans. *Morgagni,* ep. 12, de hydrorachitide, art. 9... Hydrorachitis, *Sauvages,* II. 497. Okes on spina bifida. 8. Lond. 1810. *A. Cooper,* Medicoch. tr. II. 322 ; successfully treated both by bandages and by cautious and repeated punctures.

5. *Hydrops oculi.* Caligo humorum ? Cull. syn. xiii. 4. Morand, Ac. Par. 1723. 45. Boerh. morb. oc. II. v. Mauchart ; Haller disp. chir. I. Maitre Jan. II. vi. St. Yves, II. i. *Layard ?* Phil. trans. 1758. 747. Exophthalmia hydropica, *Sauvages,* I. 173; Amblyopia hydrophthalmica, 744; Ophthalmia tenebricosa, II. 64. Cheston's obs. Callisen inst. chir. 46. *Ford,* Lond. med. journ. I. 346 ; Med. commun. I. 409 ; a seton.

6. *Hydrops thoracis.* Hydrothorax, Cull. syn. lxxviii. Hipp.

int. aff. 544; dis. II. 483; " dropsy of the lungs." Columb. anat. II. iii, Ballon. opp. I. 13. River. I. obs. 60. Barthol. hist. an. II. 7, 66. Tulp. II. xvi. Willis pharm. rat. II. i. 13. Duverney, Ac. Par. 1703. 197. Hofm. III. 337. Baglivi, 432. Boerh. 1219. *Alston*, Ed. med. ess. V. ii. 609; blood in the pericardium; *Simson*, 623; with ascites. Bergeron de hydrope pectoris. *Morant*, M. Ac. chir. II. 545; operation. *Morgagni*, ep. 10, art. 11; ep. 16, de respiratione laesa a thoracis aut pericardii hydrope; ep. 64, art. 5. Haen rat. med. V. 97, 111. VI. 86. *Moreland*, Phil. trans. 1766. 302; operation. Hydrothorax, *Sauvages*, I. 688. Marteau, Journ. med. XXXII. *Med.* comm. Ed. I. 208, 248; the sudden waking observed by Baglivi not always present; Ruysch. Percival's essays. Stoll. prael. I. 79. Knebel de hydrothorace. 4. Witt. 1795; with literature. Maclean on hydrothorax. 8. Sudbury, 1810; Ed. med. journ. VI. 474.

A. H. vulgaris, Sauv.

B. H. mediastini, Sauv.

C. Encysted. H. pleurae, Sauv. Fairfax, Phil. trans. Haller opusc. path. obs. 14. Störck ann. I. 154. Stoll rat. med. I. 212.

D. H. pulmonis? See Morgagni, ep. 16, art. 33.

7. *Hydrops pericardii.* Hydrothorax (pericardii), Cull. syn. lxxviii. Hildan. obs. 19. Tulp. IV. 20. Hofm. suppl. II. ii. Stalpart. I. 36. Senac du coeur. II. 349. Ed. med. ess. V. 56, 58, 59. *Morgagni*, ep. 16; ep. 17, art. 14, 21, 25; ep. 38, art. 6, 10, 12. Hydrothorax pericardii, *Sauvages*, I. 692.

8. *Hydrops ascites.* Ascites, Cull. syn. lxxix. Hippocr. 559, 4th kind. Al. Trall. I. Hofm. III. 322. Junck. 87. Boerh.

1226. *Pringle,* Ed. med. ess. III. 378; discharge from the navel; *Monro,* IV. 428; from a steatomatous omentum; *Johnston,* V. ii. 640; from a tumour attached to the navel internally. *Guy?* Phil. trans. 1755. 34; fluid like honey; *Warrick,* 1756. 485; injecting claret. *Mackenzie,* Med. obs. inq. I. 146; *Pye,* II. 121; a viscid matter forced out by vomiting, after paracentesis. *Morgagni,* ep. 38, de hydrope ascite, peritonaei, et de aliis quos saccatos vocitant. *Fothergill,* Med. obs. inq. IV. 114; tapping early. Ascites, *Sauvages,* II. 498. †Med. comm. Ed. V. 181; blood. Med. trans. II. 17. *Scott,* Med. comm. Ed. VI. 440. *M'Lachlan,* Dunc. med. comm. IX. 360; purulent. *Watson,* Med. commun. I. 162; tapping the prolapsed vagina. *Willan,* Lond. med. journ. VII. 189; a discharge by the vagina. *Bishop,* Med. commun. II. 360; tapping the vagina; *Smyth,* 482; wounding the epigastric artery. This artery *never* is without the edge of the rectus muscle; a smaller one is sometimes at the edge, but its pulsations may be felt (B.) *Warner,* M. Med. soc. Lond. III. 588.

A. In the general cavity of the abdomen. Ascites abdominalis, Cull. syn. lxxix. 1; A, from an obstruction; B, from debility; C, from thinness of blood.

B. Confined in a cyst or sac. Ascites saccatus, Cull. syn. lxxix. 2; sometimes. Duverney, Ac. Par. 1703. 191; Morand, 1722. 275. Gareng. I. 439. Glass, Phil. trans. Ed. med. ess. V. n. 63. *Morgagni,* ep. 38, art. 49, 67; ep. 65, art. 16. Haen rat. med. XI. 272, 309. *Lowdell,* M. Med. soc. Lond. III. 594. Balding. N. mag. X. 543.

1) Between the laminae of the peritonaeum. Tulp. IV. xliv. Stalpart, II. 28. Fairfax, Phil. trans. Jacquin, Med. obs. inq. I. 7; of 44 years standing. Morgagni.

2) At the epigastrium. Allen synops. 294. Garengeot

chir. I. 435. Douglas. Haen rat. med. IV. 99. Morgagni. Hautes. rec. II.

3) In the omentum. Haen rat. med. IV. 95. Störck ann. I. 149.

4) In the kidney. *Martineau*, Dunc. med. comm. IX. 282. *Baillie's* engr. 137; spurious hydatids.

5) Resembling hydatids. Hipp. int. aff. 544. *Morgagni*, ep. 38, art. 35, 40, 41, 43, 71. Haen rat. med. V. 44. *Simmons*, Med. commun. I. 101. *Brown?* Dunc. med. comm. IX. 233; in the groin. *Macleay*, Ed. med. journ. II. 170.

9. *Hydrops ovarii.* Ascites saccatus (ovarii), Cull. syn. lxxix. 2. Werlhof opp. III. 771. Mead, Sampson, Sloane, Phil. trans. Ac. Par. 1739. 22. *Paisley*, Ed. med. ess. V. ii. 766. *Ledran* and others, M. Ac. chir. II. 431, 455; with scirrhi. *Morgagni*, ep. 47, art. 12. Mey; 212 pounds. Haen rat. med. VI. 38. VII. 117. XI. 281. *Martineau*, Phil. trans. 1784. 471. Stoll rat. med. VII. 86. Dunc. med. comm. VII. 1; *Johnson*, 269; X. 151. *French*, M. Med. soc. Lond. I. 234; with ascites. *Ford*, Med. commun. II. 123. *Baillie's* engr. 197; 203, in the Faloppian tube, which is often confounded with dropsy of the ovarium.

10. *Hydrops uteri.* Hydrometra, Cull. syn. lxxx. Hipp. diss. 515. Fernel. pathol. VI. 15. Vesalius de corp. hum. I. v. 9. Horst. opp. II. 266. Tulp. III. 32. IV. 45. Mauriceau, I. 74, 175. II. 148. Ruysch obs. n. 17. Duverney, Ac. Par. 1703. 189, 192. Belchier, Douglas, Turner, Phil. trans. *Morgagni*, ep. 38, art. 65, 66; ep. 39, art. 39; hydatids; ep. 65, art. 16. Hydrometra, *Sauvages*, II. 510; Ascites uterinus, 505; sanguineoüterinus, 508. Cheston's obs. Percival's essays. Baldinger N. mag. VI. 358, 468; hydatids. Kemmerich in

Selle N. beitr. II. 153. Gregorini de hydrope uteri. 4. Hall. 1795.

B. In the tube. *Morgagni*, ep. 38, art. 66. *Baillie's* engr. 203. See hydrops ovarii.

11. *Hydrops scroti*. Hydrocele, Cull. syn. lxxxi. Boerh. 1227. *Jamieson*, Ed. med. ess. II. 252; bleeding after puncture; blood removed by the radical operation. Ledran operat. chir. *Monro*, V. 298. Douglas on hydrocele. *Bertrandi*, M. Ac. chir. III. 84. *Morgagni*, ep. 20, art. 24; ep. 21, art. 19; ep. 43, art. 16..24, 31..34. Pott on hydrocele. 8. Lond. 1767. Sharp operat. Oscheocele aquosa, hydatidosa, Malabarica, *Sauvages*, I. 169. *Sabatier*, M. Ac. chir. V. 670; radical cure. Else on hydrocele. 8. 1782. Dease on hydrocele. 8. 1782. Howard on hydrocele. 8. Lond. 1783; Lond. med. journ. V. 61; Seton; Tomlinson, VIII. 119. Keate's cases. 8. Lond. 1788. *Sparrow*, Lond. med. journ. IX. 109. *Maxwell*, Dunc. med. comm. XV. 399; subsiding by cold applications; fluid like blood and milk mixed; could be traced to no source after death. Delonnes on a hydrocele. 8. Par. 1791. Earle on hydrocele. 8. Lond. 1791-3; Dunc. med. comm. XVIII. 215. Else. Murray. Bell on hydrocele. 8. Ed. 1794; von Hebenstreit. 8. Leipz. 1795. *Hosack*, Dunc. ann. 1796. 306; injection, also *Farre*, Med. records, 182. *Baillie's* engr. 175; 181, hydatidous.

12. *Hydrops cacotrophicus*. Anasarca cacotrophica, W. Hunter on the diseases of seamen.

XLV. EMMYXIUM.

Mucous tumour.

A tumour containing a mucilaginous fluid.

The nature of the secretion of the part concerned must often determine the probable quality of the fluid.

1. E. *articuláre.*	Swelling of a joint, with distension of its cavity. White swelling, or Hip case.
2. E. *gan'glion.*	Swelling in the sheath of a tendon, containing a fluid.
3. E. *subcutáneum.*	Encysted soft tumour under the skin.
4? E. *celluláre.*	Of a cellular structure.
5.† E. *hydatidéum.*	An encysted tumour deeply seated, sometimes containing detached sacs.

† Ecphyma polyposum, viscerale, xlviii. Carcinoma, xlix. Apostema pustula c, l.

2. *Emmyxium articulare.* Hydrarthrus, Cull. syn. cxl. Ed. med. ess. II. 464; *Monro*, IV. 302; sinovia and pus discharged. *Simson*, 306; purging and pumping hot water, together or alternately. *Warner*, Phil. trans. 1756. 452. Reimarus de fungo articulorum. Leyd. 1757. *Akenside*, Med. trans. I. 104; blisters, calomel, and bark. Hydrarthrus, *Sauvages*, I. 166. *Orred* and *Percival*, Dunc. med. comm. VII. 315; perpetual blister. *Swediaur*, Lond. med. journ. I. 194. Haffner de hydrope articulorum. 8. Vienna; Dunc. med. comm. VI. 132. Stoll rat. med. III. 126, 133. *Lawson*, Dunc. med. comm. XVI. 342; "rheumatic." *Crowther*, Med. facts. IV. 157; caustics. *Ford* on diseases of the hip joint. 8. Lond. 1794, 1810. Russel on the

knee joint. 8. Ed. 1802. Herdman on white swellings. 8. Ed. 1802; Dunc. ann. 1802. 180. Bayle, Journ. med.; Ed. med. journ. II. 401. Cooper on diseases of the joints. Lond. 1807; Ed. med. journ. V. 237. *Crowther* on white swellings. 8. Lond. 1808; Ed. med. journ. V. 229; *Robertson*, 432; corrosive sublimate. See apostema, l.

(† Rheumatismi, scrofulae symptoma.)

2. *Emmyxium ganglion.* Ganglion, Cull. syn. cxxxviii. Forest. III. n. 9. Heist. chir. c. 171. *Morgagni*, ep. 50, n. 19. Girard Lupiologie. Acrel chir. vorf. II. 196. *Dease*, Lond. med. journ. V. 172; a seton fatal; *Evans*, VIII. 134; opened. Richter wund. I. §. 503. Meier, Balding. N. mag. IV. 484. *Woodham*, Ed. med. journ. VI. 157; escharotics.

3. *Emmyxium subcutaneum.* *Paton*, Ed. med. ess. I. 212. *Bromfield* and *Ingram*, Med. obs. inq. IV. 371. *Ford*, Lond. med. journ. IX. 362; with a calculus. Loder über die balggeschwülste, von Jakobsen. 8. Leipz. 1793.

B? Producing horny substances. *Parsons*, Phil. trans. 1755. 183; from a sheep's throat. *Parkinson*, M. Med. soc. Lond. IV. 391. *Home*, Phil. trans. 1791. 95.

4. *Emmyxium cellulare.* Cystic sarcoma, Abernethy surg. obs.

5.† *Emmyxium hydatideum.* Scarcely distinguishable during life. Physconia externa hydatidosa, Cusson, *Sauvages*, II. 489. Cull. syn. lxxxii. Hippocr. fem. dis. Horst. V. obs. 33. Bonet. sep. grav. fals. obs. 3. §. 2, 3, 4, 11... med. sept. II. 313; liver. River. obs. ult. Schenk. III. n. 4. Tulp. II. xxxiv; mesenteric. Solenander. cons. 15, sect. 5. See parasitismus.

XLVI. EMPIMELIUM.

Fatty tumour.

A tumour containing a fatty substance.

1. E. *polysar'cia.* General.
2. E. *lipóma.* Circumscribed.

1. *Empimelium polysarcia.* Polysarcia, Cull. syn. lxxi. Fernel. cons. xiv. Forest. XXXI. Barthol. ep. II. 665. III. 402. Baglivi opp. 393. Catesby, Phil. trans. *Coe,* Ph. tr. 1751. 188; Bright, about 616 pounds. Latour, Journ. méd. 1757. Flemyng on corpulency. 8. Polysarcia, *Sauvages,* II. 467. *Baker,* Med. trans. II. 259. III. 309; Wood; would not be weighed. *Wade,* Méd. obs. inq. III. 69. Ackermann, Balding. N. mag. VI. 489. Remarks on corpulence. 8. Lond. 1810; Ed. med. journ. VI. 491.

2. *Empimelium lipoma.* Physconia ab adipe subcutaneo, Cusson, *Sauvages,* II. 490. Cull. syn. lxxxii. Lupia steatoma, aliis lipoma, *Sauv.* I. 166. Adipose sarcoma, Abernethy. Galen tum. v. Aët. IV. iii. 8. Arant. tum. iii. Forest. III. n. 12. Bonet. med. sept. I. 636. II. 486. Tulp. II. xxxii, xxxiii; mesenteric. Brown tum. *Parsons,* Phil. trans. 1757. 350. Lieut. comp. med. *Morgagni,* ep. 43, art. 37; steatocele; ep. 50, art. 22; natta... *Hanly,* Phil. trans. 1771. 131. Raum de lipomate. 4. Gott. 1787. *Lockhart,* Dunc. med. comm. XVII. 490. *Brodbelt?* M. Med. soc. Lond. VI. 232. *Bostock,* Ed. med. journ. II. 14; steatoid.

XLVII. ATHEROMA.

Pulpy tumour.

A tumour containing a mealy, pulpy, or curdlike substance.

1. A. *lúpia.*

1. *Atheroma lupia.* Lupia? Cull. syn. cxxxvii. Physconia externa lupialis, Cusson. *Sauvages,* II. 488. Cull. syn. lxxxii; Lupia meliceris, *Sauv.* I. 165. Galen tum. v. Aët. IV. i. 23. Arant. tum. iii. Severin. rec. abs. nat. IV. 277. Marchettis obs. p. 66. Brown tum. 208, 215. Graham, Phil. trans. old abr. IX. 187. Acrel, I. 257, 334; Comm. Gott. II. 1779. See Emmyxium subcutaneum, cellulare, xlv, Ecphyma medullare, xlviii.

XLVIII. ECPHYMA.

Solid tumour.

A solid tumour not acutely painful.

1. E. *exostósis.*	A bony tumour.
2. E. *ancylósis.*	An osseous union of two neighbouring bones.
3. E. *cartilagin'eum.*	A cartilaginous tumour.
4. E. *physcónia.*	A general softish tumour of a viscus or gland, completely occupying a considerable part of its substance.
5. E. *indurátum.*	A general tumour of a viscus or gland, of a stony hardness.

6. E. *clávus.*	A cuticular swelling. Corn.
7. E. *trichóma.*	A vascular thickening of the hair.
8. E. *verrúca.*	A permanent cutaneous swelling, with a texture distinct from that of the surrounding skin. Wart.
9. E. *pap'ula.*	A temporary local thickening of the skin, generally painful or itching. Pimples.
10. E. *oedemat'icum.*	An extensive hard thickening of the integuments.
11. E. *sarcóma.*	A circumscribed independent internal fleshy swelling, of a simple texture.
12. E. *superficiále.*	An excrescence attached to an exposed membrane.
13. E. *pol'ypus.*	A fleshy projection hanging within an internal cavity.
14. E. *glandulifor'me.*	An unequal fleshy swelling, not accurately circumscribed.
15? E. *medulláre.*	A soft tumour, resembling the brain in its texture.
16. E. *mix'tum.*	A tumour consisting of a combination of heterogeneous substances.

† Rhachitis, lxii.

Ecphyma. *Morgagni,* ep. 50, de tumoribus. Abernethy's surgical observations on tumours. 8. Lond. 1804; Ed. med. journ. I. 90.

1. *Ecphyma exostosis.* Exostosis, Cull. syn. cxli. Severin. rec. absc. nat. IV. ix. 4. Freke, Phil. trans. *Houstet,* M. Ac. chir. III. 130. *Bordenave,* M. Ac. chir. V. 338. *Brady,* Phil. trans. 1760. 660; on the mesentery. *Morgagni,* ep. 50, art. 56. .60. *Fearon,* Med. commun. I. 416; supposed a kidney. *Abernethy,* Tr. soc. med. ch. kn. II. 309. *Baillie's* engr. 207;

on the cranium. *Lucas* and *A. Duncan*, Ed. med. journ. I. 405, 407; in the orbit.

B. Loose bodies in a joint. See E. cartilagineum.

C. General extension of a bone. *Morgagni*, ep. 12, de hydrocephalo; ep. 68, art. 4. Stoll? rat. med. VII. 132. Noel, Journ. méd. LI. *Haxby?* Dunc. ann. 1799. 434.

2. *Ecphyma ancylosis.* Ancylosis, Cull. syn. cat. morb. omiss. Reimarus de fung. artic. *Morgagni*, ep. 69, art. 12. Contractura ankylosis, *Sauvages*, I. 539. *Carmichael*, Ed. med. journ. V. 185. Probably the union is sometimes cartilaginous only, although inflamed cartilages generally ossify.

3. *Ecphyma cartilagineum.*

A. Fixed. *Morgagni*, ep. 57, art. 14.

B. Loose, in a joint, sometimes partly bony. *Monro*, Ed. med. ess. IV. 305; *Simson*, 306. Reimarus de fung. artic. *Morgagni*, ep. 56, art. 10, 14, 23; ep. 57, art. 14; ep. 69, art. 12. *Ford*, Med. obs. inq. V. 329. Cheston's observ. *Cruikshank*, Med. comm. Ed. IV. 342. Theden bem. I. 106. Paletta adv. chir. *Home*, Tr. soc. med. chir. kn. I. 229. Russell on affections of the knee joint. 8. Ed. 1802; Dunc. ann. 1802. 159. *Hey.*

4. *Ecphyma physconia. Morgagni*, ep. 48, art. 16. Durand, Journ. méd. XXX. 258.

A. Of an absorbent gland, when single or accidental. Bubo simplex, *Sauvages*, I. 145. For the salivary glands, see E. mixtum. † Bubo, Cull. syn. cxxxiii, includes an abscess.

B. Of the thyreoid gland. Bronchocele, *Sauvages*, I. 157.

Lane, M. Med. soc. Lond. I. 217; burnt sponge. *Copeland*, Dunc. med. comm. XV. 330; camph. p. j, sp. amm. arom. oliv. ol. sing. p. iij, as a liniment. *Lettsom*, M. Med. soc. Lond. IV. 489. Gautieri de struma. 8. Vienn. 1794. *Baillie's* engr. 25.

C? Pulmonary. Portal; Dunc. med. comm. X. 74. Rather dyspnoea.

D. Abdominal, extending to more than one viscus. Physconia megalosplanchna, Cusson, visceralis, *Sauvages*, II. 487. Cull. syn. lxxxii. Schenk. III. 9. Bonet. sep. de grav. fals. obs. 3: III. xxi. 35, 39, 44. add. obs. 80; med. sept. VII. 487. Salmuth, I. obs. 21. Bianchi hepat. I. 130.

E. Intestinal. Physconia intestinalis, Cusson, *Sauvages*, II. 484. Cull. syn. lxxxii. Giles, Healy, Phil. trans. *Morgagni*, ep. 39, art. 21. Fantoni obs. med. n. 11.

F. Peritonaeal. Meckel, Ac. Berl. 1753. 162; approaching to steatoma.

G. Omental. Physconia omentalis, Cusson, *Sauvages*, II. 485. Horst. opp. II. 525. III. 73; resembling steatoma. Bonet. sep. III. xxi. 33. Ruysch obs. 63. Reebman de omento. Portal, Ac. Par. 1771. *Dr. J. Hunter*, Med. trans. III. 250.

H. Mesenteric. Physconia mesenterica a, f, Cusson, *Sauvages*, II. 481, Cull. syn. lxxxii. Bonet. sep. fals. grav. obs. 3; III. xxi. 38, 87. Horst. opp. II. 184. Grüling. Haen rat. med. IX. i. §. 8.

I. Hepatic. Physconia hepatica, Cusson, *Sauvages*, II. 478. Cull. syn. lxxxii. Gal. loc. aff. V. vii. Forest. XIX. 4, 5,

6, 13, 20. Horst. opp. II. 198, 440. Ballon. cons. III. 76. Barthol. ep. III. 8. Schenk, III. 33; parasitismus. Bonet. sep. grav. fals. obs. 3. n. 8, 9, 10; obs. 5; concretions. III. xviii. Willis pharm. rat. II. ii. 2. Bont. med. Ind. vii. Seger Eph. Nat. cur. Dec. 1, ann. 4. obs. 142. Hofm. suppl. II. ii. Brown tum. Bianchi hepat. Verduc rach. *Morgagni*, ep. 36, art. 3... Haen rat. med. VI. ii. Gooch's observations. *Heberden*, Med. trans. II. 143. Portal; Med. comm. Ed. I. 216; marrubium. Stoll rat. med. I. 290, III. 387. Starke clin. inst. 133. *Ja. Clark*, Dunc. med. comm. XIV. 355. Roederer morb. muc. 191, and Walter obs. anat. 53; parasitismus. See hepatitis.

K. Splenic. Physconia splenica, Cusson, *Sauvages*, II. 480, Cull. syn. lxxxii. Hippocr. int. aff. 521. Fernel. cons. xlii. Forest. XX. 1..4, 8..10. Ballon. cons. II. 90. Barthol. hist. an. IV. n. 60; epist. I. 254. IV. 47, 53. Schenk, III. ii. 91, 92. Bonet. sep. III. xxi. 34. Tulp. II. xxx. Haller disp. path. IV. n. 109. *Morgagni*, ep. 20, art. 52; ep. 36. art. 17, 18, 23, 29; ep. 39, art. 42. Chalmers. Lentin, II. obs. 21. *Garlick*, Lond. med. journ. V. 186. *Elliot*, Dunc. med. comm. XVII. 495. *Burrowes*, Trans. Ir. Ac. IV. 183; Med. facts. VII. 219. *Young*, Dunc. ann. 1801. 437; after a remittent; cured by cautery. *Baillie's* engr. 119; cartilaginous coat; 125. *Bree*, Medicoch. tr. II. 84; haemorrhoidal; cathartics useful.

L. Pancreatic. Perhaps cancerous. Forest. XXI. 1. Barthol. ep. I. 254; parasitismus. *Morgagni*, ep. 30, art. 11. Cheston's inq. app. n. 9. Maury, Journ. méd. LXV. 18. *Baillie's* engr. ? 115; with calculi.

M. Renal. Physconia renalis, Cusson, *Sauvages*, II. 480, Cull. syn. lxxxii. Plater. obs. II. 449; River. IV. obs. 34; with calculi. Schenk, III. ii. 196. Bonet. sep. grav. fals. obs. 3.

n. 7; III. xxi. add. obs. 27. *Morgagni*, ep. 40, art. 6; ep. 48. art. 16. Haller disp. path. n. 114. Pearson. Martineau, Dunc. med. comm. IX. 97. See E. mixtum.

N. Vesical. Bonet. sep. III. xxi. add. obs. 23. *Morgagni*, ep. 39, art. 33.

O. Prostatal. See ecphyma induratum.

P. Testicular. Sarcoma scroti, sarcocele. Graecorum, *Sauvages*, I. 154. Forest. XXVII. 23. Goulard. Brown tum. 352. Heister chir. c. 121, 125; Wahrn. II. *Barry*, Ed. med. ess. IV. 30; caustics and turbith mineral; *Monro*, V. 325. *Morgagni*, ep. 43, n. 38. Haen rat. med. VI. iv. *Pott* on hydrocele. Sharp crit. inq. *Vaughan?* Med. obs. inq. III. 152; rather scrotal. Warner on the sarcocele. Lond. 1774. *Schotte*, Phil. trans. 1783. 85. *Hamilton*, Lond. med. journ. IV. 172; cicuta. *Gourlay*, Dunc. med. comm. IX. 336; encysted. *Hounsfield*, Lond. med. journ. VII. 247; electricity.

Q. Uterine. Physconia uterina, Cusson, *Sauvages*, II. 481; Cull. syn. lxxxii. Bonet. sep. grav. fals. obs. 2. n. 5, 6, 7.

R. Ovarian. Physconia ab ovario, Cusson, *Sauvages*, II. 481, Cull. syn. lxxxii. *Monro*, Ed. med. ess. V. ii. n. 74. *Morgagni*, ep. 39, n. 37, 39. † Bland, Med. comm. Ed. II. 48; a foetus. Pulteney, M. Med. soc. Lond. II. 23. *Abernethy*, Medicoch. tr. I. 35. See hydrops ovarii; the diseases being often mixed and undistinguishable; see also ecphyma mixtum.

5. *Ecphyma induratum.* Scirrhus, Cull. syn. cxxxi. Physconia externa scirrhodea, Cusson, *Sauvages*, II. 489, Cull. syn. lxxxii. Galen simpl. med. V. ix; tum. ix; method. XIV. iv;

Glauc. II. iii. Oribas. VII. xxxiv. IX. 60. Aët. IV. iii. 3. Fernel. cons. lxvi. Forest. chir. IV. 1. . . Falopp. opp. II. tr. 9. Blas. obs. vi. Brown tum. 132. Acrel. I. 323.

A. Of a gland. Scirrhus lupia, *Sauvages*, I. 144. *Robertson* and *Stuart*, Ed. med. journ. VI. 442.

B. Of the viscera. Fabr. Hildan. II. 45. Physconia polysplanchna *a*, *Sauvages*, II. 486.

C. Of the mesentery. Riolan. anthrop. II. xxvi. *Morgagni*, ep. 39, n. 2; rather mixed. Physconia mesenterica *c*, *Sauvages*, II. 481.

D. Of the liver. See E. physconia 1. Physconia hepatica *a*, *Sauvages*, II. 478.

E. Of the spleen. Bonet. sep. ventr. tum. obs. 34. n. 3.

F. Of the prostate. *A. Fothergill*, M. Med. soc. Lond. I. 202. *Baillie's* engr. 165; "not ulcerating, therefore not cancer." *Home* on diseases of the prostate. 8. Lond. 1811.

G. Of the uterus. *Baillie's* engr. 187; "intersected by membranes," like all other hard swellings, "but not ulcerating;" 189, circumscribed tubercles of the same kind, but whiter, more properly sarcomatous.

H. Of the ovarium. *Ledran* and others, M. Ac. chir. II. 431. *Baillie's* engr. 199; not suppurating. Perhaps rather physconia.

6. *Ecphyma clavus.* Clavus, Cull. syn. cxxxvi. Aët. IV. ii. 82. Arant. tum. c. 69. Forest. chir. IV. 12. Brown tum. Albin. annot. acad. *Morgagni*, ep. 50, n. 61. Condyloma clavus, *Sauvages*, I. 154. Camper sur la meilleure forme des souliers.

Laforest Kunst die füsse zu besorgen, von Hofmann. 8. Leipz. 1793. *Carlisle*, Med. facts. VII. 29. Lion on spinae pedum. 8. Ed. 1802.

B. Horns. Barthol. hist. an. I. 78; act. Hafn. III. 67. Ash, Baker, Wray, Phil. trans. *Morgagni*, ep. 65, n. 2. See Emmyxium subcutaneum.

7. *Ecphyma trichoma.* Trichoma, Cull. syn. xc. Erndtel Varsov. illustr. Juch de trichomate. Stabel de plica. Hall. 1724. Bachstrom de plica. Copenh. 1725. Baker, Hain, Phil. trans. Trichoma, *Sauvages*, II. 603. Alibert.

8. *Ecphyma verruca.* Verruca. Cull. syn. cxxxv. Oribas. VII. 43. Arant. tum. c. 31, 74. Forest. chir. IV. 10, 11. *Monro*, Ed. med. ess. V. ii. 197. Verruca, *Sauvages*, I. 155. † *Gardiner*, Ed. phys. ess. III. 395; against caustics for syphilitic warts, savine cures them. Richter wund. I. 421. † Dease, Med. comm. Ed. IV. 340; syphilitic.

9. *Ecphyma papula.* Sometimes contains a little fluid which turns to a crust. Phlogosis phlegmone, Cull. syn. vii. 1. Papula, *Sauvages*, I. 131. *Willan*, cut. dis.

10. *Ecphyma oedematicum.*

A. Phlegmatia lactea. Levret, M. Ac. chir. Journ. méd. 1759, *Sauvoges*, I. 475. White on a swelling. 8. Lond. 1784, Manch. 1792, 1801; Lond. med. journ. V. 50. Trye on a swelling of the lower extremities. 8. 1792. Hull on phlegmatia dolens. 1800.

B. *Lettsom*, M. Med. soc. Lond. II. 185; of the tongue and lips; agrees with the phl. lactea in being terminated at the middle line.

C. Oedema simplex durius. *Pearson* princ. surg. 306.

11. *Ecphyma sarcoma*, and sometimes ecphyma in general. Sarcoma, Cull. syn. cxxxiv. Physconia ab excrescentia, Cusson, *Sauvages*, II. 491, Cull. syn. lxxxii. Forest. chir. III. 7. Plater. obs. III. 661. Barthol. hist. an. III. 40; epist. II. 725. *Morgagni*, ep. 50, n. 19. Sarcoma natta, *Sauvages*, I. 153; generally pendulous. Acrel I. 475. *Eason*, Med. comm. Ed. IV. 82; discussed by lightning. *Turnbull*, M. Med. soc. Lond. III. 558; moveable, " therefore encysted;" cured by electricity. Vascular sarcoma, *Abernethy* on tumours.

A. In a nerve. *Home*, Tr. soc. med. ch. kn. II. 152; part of the nerve to be removed with the tumour.

B. In the head. *D. Monro*, Med. trans. II. 325; piercing the cranium.

C. In the eye. *Ford*, Med. commun. I. 95; brain diseased. See hydrops oculi, xliv.

D. Of the gums or mouth. Stalpart. I. n. 17. M. Ac. chir. V. 372. Bücking, Balding. N. mag. II. 270; from the socket of a tooth.

E. Of the tongue. *Lamalle*, M. Ac. chir. V. 513. *Clanny*, Ed. med. journ. I. 317; protruded. *Atkinson*, II. 318; calomel and cicuta.

F. Of the larynx or trachea. *Sherwin*, Dunc. med. comm. VII. 330. *Smyth*, Med. commun. II. 476; after fever, causing suffocation.

G. Of the oesophagus. *Baillie's* engr. 49.

H. In the neck. *Simson*, Ed. med. ess. V. 408; after bleeding in the jugular vein.

I. About the abdomen. *Davidson*, Dunc. med. comm. XV. 391. *Pulteney*, M. Med. soc. Lond. II. 261, 512. Fisher, Amer. acad.; Lond. med. journ. VII. 287.

K. Of the pelvic viscera. Bladder; *Baillie's* engr. 153; spongy. Corpus cavernosum; *Peyronie*, M. Ac. chir. I. 425. Testis; *Lawrence*, Ed. med. journ. IV. 257. Scrotum; *Warner*, M. Med. soc. Lond. III. 590; *Corn*, Tr. soc. med. chir. kn. II. 257. Labia; Acrel, I. 475.

L. Of the hands or feet. Haygarth's clinical history. 8. Lond. 1805. Ed. med. journ. I. 479; nodosities.

M. Of the thigh. *Hall*, Med. comm. Ed. I. 89. Fungous.

N. Of the leg. *Ed.* med. ess. I. 234.

12. *Ecphyma superficiale.* Principally Caligo corneae, Cull. syn. xcii. 2.

A. Albugo. A whitish spot on the cornea: when slight and semitransparent, Nephelium. Leucoma nephelium, *Sauvages*, I. 125; albugo, 126; Caligo a nephelio, a leucomate, 726.

B. Staphyloma. A thick prominent tumour on the cornea. The staphyloma of Sauvages, I. 165, 176, 728, II. 69, is described rather as a prominence of the cornea from distension, but not uniformly. *Bird*, M. Med. soc. Lond. IV. 105; "chemosis," which is generally understood to originate from violence.

C. Pterygium. A triangular excrescence extending from the cornea towards the angle of the eye. Pterygium, *Sauvages*, I. 156; Caligo a pterygio, 728.

D. Encanthis. An excrescence from the caruncle. Sarcoma encanthis, *Sauvages*, I. 154; Caligo a sarcomate, 727.

E? Crithe, chalazium. Of the eyelids. Hordeolum grando, chalazium, *Sauvages*, I. 157. Heist. chir. c. 43.

13. *Ecphyma polypus.* Sarcoma? Cull. syn. cxxxiv.

A? Within a joint. Fungus articulorum. Sagar. Brown tum. 389. Pott on palsy. Reimarus de fungo articulari. Cheston's observations. B. Bell's surg. and ulc. Med. comm. Ed. V. 319. Muller de fungo articulari. Gott. 1780.

B. Of the nostrils. Dalbis, Journ. méd. 1759. *Morgagni*, ep. 14, n. 17. D. Sarcoma narium, *Sauvages*, I. 153; Dyspnoea polyposa, 661; Anosmia a polypo, 750. Mauchart. Ruysch. Palfin. Meeckren. Weber de polypo narium. 4. Altdorf, 1792; much praised by Rothe. *Robertson*, Ed. med. journ. I. 410; an instrument. Whateley's cases of polypi. 8. Lond. 1805. Ed. med. journ. I. 465.

C. In the pharynx. *Dallas* and *Monro*, Ed. phys. ess. III. 525. Schmiedel de polypo oesophagi. 4. Leipz. 1762.

D. In the bladder. *Baillie's* engr. 151. Probably never distinguishable during life.

E. On the testis. *Wardrop*, Ed. med. journ. III. 421.

F. Of or about the uterus. Sarcoma cercosis Aëtii, *Sauvages*, I. 153. Levret, M. Ac. chir. III. 518. *Fielding*, Med. comm. Ed. IV. 228. *Mem.* Med. soc. Lond. V. 14. *Baillie's* engr. 191. In the vagina; *Paterson*, Dunc. med. comm. XX. 298. At the end of the urethra; *Hughes*, Med. facts. II. 26. In the urethra; *Jenner*, Lond. med. journ. VII. 161; ligature. *Denman* on the polypus of the uterus. Lond. 1801.

14. *Ecphyma glanduliforme. Pringle*, Ed. med. ess II. 324; in the oesophagus, impeding deglutition.

A. Pancreatic sarcoma, Abernethy.

B. Mammary sarcoma, Abernethy.

C. Tubercular sarcoma, Abernethy.

15? *Ecphyma medullare.* Medullary sarcoma, Abernethy. *Baillie's* engr. 177? pulpy testicle. More strictly belongs to Atheroma.

† Carcinoma spongiosum.

16. *Ecphyma mixtum.* More resembling ecphyma than any other tumour. Barthol. III. obs. 6; fatty and hard substances. Huldenreich, Eph. Nat. cur. Dec. 1. ann. 6, 7. p. 321; hard and fleshy. Haller disp. path. n. 114; fleshy and encysted; V. 256; hard substances with hydatids. *Dufouart,* M. Ac. chir. I. 271; hard and almost bony. *Monro,* Ed. med. Ess. V. ii. 770; mucososteatomatous ovarium; belonging rather to E. physconia. *Goodwin,* Lond. med. journ. VI. 292; hair with a honey like substance. Warren, Amer. Ac.; Lond. med. journ. VII. 298; hair. *Pole,* M. Med. soc. Lond. III. 546; salivary glands; of all kinds. *Baillie's* engr. 199; ovarium, with fat, hair, and teeth; not a conception. *Pearson,* Med. obs. inq. VI. 236; kidney.

† Looseness of the skin, Tulp. I. 57, is too little understood to be properly classed.

XLIX. CARCINOMA.

Cancer.

An uneven tumour, with sharp lancinating pains, tending to ulceration.

1. C. *scirrhósum.* Hard. Cancer.
2. C. *spongiósum.* Spongy, and readily bleeding. Bleeding cancer.

† Ecphyma medullare, xlviii. 15.

1. *Carcinoma scirrhosum.* Cancer, Cull. syn. cxxxii. Ballon. I. 43; cons. III. 26. Tulp. I. 47. Goudron des cancers. 12. 1700. Boerhaave on cancers. *Love,* Ed. med. ess. V. 95; guaiacum. Barton, Phil. trans. *Ledran,* M. Ac. chir. III. 1. Louis sur le virus cancéreux. 12; M. Ac. chir. III. 88; *Civadier,* 511; removal. *Morgagni,* ep. 50. n. 4, 47. *Colebrooke,* Phil. trans. 1765. 271; hemlock not a cure. Mare de cancro et spina ventosa. 8. Vienn. 1767. *Akenside,* Med. trans. I. 64. Cancer, *Sauvages,* I. 148; Carcinoma, II. 547; ulcerated. *Nicolson,* Med. obs. inq. IV. 358; hemlock and carrot poultice. Gooch med. surg. obs. Hill's cases; 8. Ed.; Med. comm. Ed. I. 126; for extirpation. Richter Comm. Gott. II; Lond. med. journ. II. 363? Febure on cancers. André on hemlock in cancer. Justamond. *Douglas,* Med. obs. inq. V. 113; hemlock. Hopkins de scirrho et carcinomate; Webster m. pr. III. 120. Ronnou, Swed. tr.; Lond. med. journ. III. 146; arsenic. *R. White,* Lond. med. journ. V. 70. *Crawford,* Phil. trans. 1790. 891. *Fearon,* M. Med. soc. Lond. II. 473; vegetables and leeches. Fearon on cancers. 8. Lond. 1790. Hamilton on scrofula, cancer and rickets. 12. 1791. * *J. Pearson* on cancerous complaints.

8. Lond. 1793; great abstinence seems to have succeeded: Pouteau suggests abstinence, Oeuvr. posth.; Med. commun. II. 121. Ewart on cancer. 8. 1794; carbonic acid. *Bishoprick*, Dunc. med. comm. XIX. 257; a case extremely like cancer cured by mercurial and antimonial pills, taken twice a day for 20 weeks. Whistling Kurmethoden des offenen krebses. 8. Altenb. 1796. Adams on cancer. 8. Lond. 1801. Kentish on cancer. 8. 1802. Carmichael on carbonate of iron in cancer. 8. Dubl. 1806; Ed. med. journ. II. 372. Pearson princ. surg. 222. *Livingstone*, Ed. med. journ. I. 163; removed by scurvy. S. Young on cancer. 8. 1805. *Home* on cancer. 8. Lond. 1805; Ed. med. journ. I. 352. *Queries* on cancer; II. 382; Denman. W. Thomas on scirrhi and cancer. 8. 1805. Lambe's reports. 8. 1809. Howard on cancer. 8. 1811. Metzger.

A. Of the eye. Saint Yves, II. i; cancer palpebrarum, vi. *Spry*, Phil. trans. 1755. 18; Daviel, 186. Exophthalmia cancrosa, *Sauvages*, I. 174; Ophthalmia cancrosa, II. 67. *Hayes*, Med. obs. inq. III. 120.

B. Of the face. Not uncommon, but seems to differ from other cancers in being more curable by arsenical caustics.

2? Cancerous pain. Fothergill, Med. obs inq.; Works, II. 164. Blunt, Lond. med. journ. Selle N. beitr. I. 32.

C. Of the nose. *Ed.* med. ess. III. 299? with deformitas.

D. Of the lip. Timaeus cas. p. 71. Acrel. I. 55.

E. Of the mouth. *Bacon*, Med. comm. Ed. II. 296; cured by leeches.

F. Of the tongue. Bresl, samml. 1724; caustic. Dent, Phil. trans.

G. Of the pharynx or oesophagus. *Taylor*? Ed. med. ess. II. 325. *Simmons* and *Watson*, Med. commun. I. 228; contracted and ulcerated. *Cooper*? Med. records, 86; obstructing the thoracic duct. *Kitson*, Ed. med. journ. III. 401; pharynx.

H. Of the stomach. *Taylor*. Camillis, Phil. trans. *Jo. Sims*, Med. commun. I. 421. *Smyth*, 427. *Morris*, Med. obs. inq. VI. 408; pylorus. Pezold von verhärtung des untern magenmundes. 8. Dresd. 1787. *Loftie*, Lond. med. journ. XI. 17; Graves, 343. *Baillie's* engr. 59, 63.

I. Of the rectum. *Lettsom*? M. Med. soc. Lond. II. 308.

K. Of the breast. Forest. XVII. 26, 27; chir. IV. 6. *Monro*, Ed. med. ess. V. 410. *Fagel*, M. Ac. chir. I. 681. *Morgagni*, ep. 50. n. 49. Mastodynia cancrosa, *Sauvages*, II. 129. Lerche de cancro mammarum. 4. Gott. 1778. Camper, Geneesk. cabinet. *Fearon*, Lond. med. journ. IV. 406; *Hughes*, X. 40. North on cancers in the breast. 8. 1806.

L. Of the penis. Ruysch obs. 30. *Morgagni*, ep. 50. n. 50. *Mackell*, Ed. med. journ. IV. 50; extirpated. Home on cancer.

M. Of the testis. Baillie's engr. 181. *Livingstone*, Ed. med. journ. I. 163.

N. Of the scrotum. *Hall*, Lond. med. journ. VIII. 81.

2? Chimneysweeper's cancer. Probably a distinct disease, though difficult to be defined. Pott's surg. obs. Simmons on lithotomy, and on the chimneysweeper's cancer. 1808.

O. Of the uterus. Forest. XXVIII. 46, 47. Ballon. I. 96. Mauriceau. Tralles de opio, I. 54. Astruc. III. vii. Hysteralgia cancrosa, *Sauvages*, II. 122; Leucorrhoea cancrosa, 399. *Lettsom*, M. Med. soc. Lond. V. 18. *Rutter*? Ed. med. journ. IV. 168; hysteralgia.

† Of the pancreas. See Ecphyma physconia.

2. *Carcinoma spongiosum.* Wardrop on fungus haematodes. 8. 1809; Ed. med. journ. VI. 209. Hey?

L. APOSTEMA.

Abscess.

A collection of pus in a confined cavity.

Abscess might without impropriety be classed as a sequel of inflammation; but since the inflammation frequently escapes observation, it is more natural and convenient to consider its immediate nature only.

1. A. *pus'tula.* Not extending below the skin.
2. A. *inter'num.* Of any internal soft part.
3. A. *cariósum.* Of a bone or joint.

APOSTEMA. Apostema, Phlogosis sequela, Cull. syn. vii.

1. *Apostema pustula.* Might perhaps be more properly classed with papula, as an ecphyma.

A. Phlyzacium. On a hard red base, succeeded by a dark scab.

B? Psydracium. A minute pustule, slightly elevated, termi-

nating in a laminated scab, discharging, after it has burst, a watery fluid. Phlyctaenae, Sauv. I. 131. II. 70, seem to be of the same nature, but larger.

C. †Achor. Containing a fluid like honey; Favus or cerium when larger.

D. Phlyctis. The liquid pearl coloured, the base slightly inflamed. Hidroa. Boa. Sudamen. Miliaria.

E. † Furunculus. A boil, the central part resembling dried pus. Forest. obs. chir. I. 9. Mursinna beob. II. 89.

† See Phlysis.

2. *Apostema internum.* Apostema, *Sauvages,* I. 166. Galen tum. xiii; Glauc. II. vi; meth. heal. XIV. xii. Forest. chir. VII. 1; with worms. Horst. opp. II. 449, 453. Severinus de recondita abcessuum natura. 4. Frankf. 1643. Hofm. suppl. II. ii. Bagliv. pr. m. I. ix. Wepf. obs. 942, 877. *Watson,* Dunc. med. comm. XI. 317; seton.

A ? Under the integuments. Oedema purulentum, Pears. princ. surg. 326.

B. In the brain. Ed. med. ess. V. 53. Haen rat. med. II. *Morgagni,* ep. 14, n. 3, 5. Med. comm. Ed. II. 180; discharge from the ear. Stoll prael. 149. Richter N. comm. Gott. II.

C. In the throat. *Wauch,* Ed. med. ess. I. 274; in the oesophagus, after cynanche, causing convulsions. *Baillie's* engr. 25; thyreoid gland.

D. About the thorax. Ed. med. ess. I. n. 26; communicating with the liver. *Kite,* Med. comm. II. 46; and abdomen. *Farquharson,* M. Med. soc. Lond. III. 123.

1) Of the breast. Swieten comm. §. 1337. *Pears.* princ. surg. 77.

2) Empyema. Hippocr. dis. II. 482. Willis pharm. rat. II. i. 10. Bellin. morb. p ect. 56. *Jamieson,* Ed. med. ess. V. 422. *Warner,* Phil. trans. 1752. 407. 1753. 270. 1759. 194. *Morgagni,* ep. 22, n. 6, 10, 12; ep. 36, n. 4; with abscess of the liver. Stoll rat. med. VII. 215, 241. *Wastell,* M. Med. soc. Lond. V. 215; *Lettsom,* 293.

3) Confined to the pleura. Hipp. dis. II. 476.

4) Of the mediastinum. *Lond.* med. journ. II. 405.

5) Of the lungs. *A. Fothergill,* M. Med. soc. Lond. IV. 133; fatal without hectic. *Baillie's* engr. 37.

6) Of the heart. *Morgagni,* ep. 25, n. 19. Stoll rat. med. II. 385. Richt. chir. bibl. I. ii. 156.

E. In the abdomen. Greenhill, Phil. trans. *Monro,* Ed. med. ess. V. ii. 500; absorbed. Starke clin. inst. *Grant,* Lond. med. journ. XI. 138. *Ed.* med. journ. II. 129; muscles.

1) Of the general cavity. Stalpart. I. 481. Coste in Mead. *Morgagni,* ep. 40, n. 10. Hulme, Ed. med. comm. I. 25; IV. 378; V. 181? blood discharged by tapping. Osiander beob. 13. Selle N. beitr. I, II, III, passim; in puerperal fevers.

2) Of the stomach. Atkinson, Phil. trans. *Morgagni,* ep. 65, n. 2. Godot, Journ. méd. XL. Stoll rat. med. VII. 130.

3) Of the intestines.

4) Of the liver. Lancis. sub. mort.; from a wound in the head. Baglivi pr. m. I. ix. Short, Tyson, Phil. trans. *Jamieson*, Ed. med. ess. IV. 425. *Petit* jun. M. Ac. chir. II. 59; *Morand*, 69. *Morgagni*, ep. 36, n. 5, 6; ep. 51, n. 20; from a wound in the head; also Cheston's obs. *Oliphant*, Lond. med. journ. VII. 22; a blow. *Garnett*, Dunc. med. comm. XIII. 303; *Ja. Clark*, XIV. 317. *Sandeman*, Med. commun. II. 277.

5) Of the kidneys. Hipp. int. aff. 540. Galen loc. aff. VI. iii. Horst. opp. II. 214. Ballon. cons. II. 37, 38, 66. Douglas, Phil. trans. Stoll rat. med. VII. 64.

F. Of the loins. Collingwood, Dunc. med. comm. IX. 344. See A. cariosum.

G. About the pelvis.

1) In the groin. *Patch*, Ed. med. ess. V. 398; milky discharge. *Anderson*, Med. comm. Ed. II. 423; like hernia.

2) In the rectum. *Faget*, M. Ac. chir. I. 389; *Foubert*, III. 473. See ulcus.

3) Of the bladder. Hofm. suppl. II. ii. Ford, Lond. med. journ. 1782. *Morgagni*, ep. 66, n. 2.

4) Of the scrotum and testis. Anderson, Med. comm. Ed. II. 425; pyocele. *Baillie's* engr. 177; testis.

5) Of the uterus. Forest. XXVIII. 48, 49.

3. *Apostema cariosum.* Caries, Cull. syn. cli.; Arthropyosis, xxv; sometimes. Forest. chir. VII. 11. Fabr. Hildan. IV. obs. 95. Amyand, Schlichting, Phil. trans. Werlhof opp. III. 715.

Monro, Med. ess. V. Ed. 334. *Morgagni*, ep. 55, n. 17. Caries, *Sauvages*, I. 242. Med. comm. Ed. V. 168. *Walker*, Med. trans. III. 25. Theden N. bem. II. 68. Park, Moreau, and Jeffray on the excision of carious joints. 8. Glasg. 1806; Ed. med. journ. III. 90. See syphilis.

A. Surrounded by an enlargement of the bone. Spina ventosa. See gangrene, which is a later stage.

B. Of the skull. *Wathen*, Med. obs. inq. V. 187. *Moyle*, Lond. med. journ. VI. 257.

C. Of the face. *Bordenave*, M. Ac. chir. IV. 329. V. 225; *Garengeot*, V. 259; *Abernethy*, Tr. soc. med. ch. kn. II. 309; antrum.

D. Of the nostrils. Ozaena. Anosmia ab ozaena, *Sauvages*, I. 750; Dysodia ab ozaena, II. 418. *Pearson*, princ. surg. 279.

E. Of the jaw. *Brandish*, Lond. med. journ. VIII. 296.

F. Of the spine, with curvature. Severin. rec. absc. nat. vi. *Vacher*, M. Ac. chir. IV. 596. *Bell*, Med. comm. Ed. III. 82. *Simmons*, Lond. med. journ. I. 271; *Munning*, VI. 358; caustics. Paletta adv. chir. Schmidt descriptio machinae. 8. Cassel, 1796. Earle on curved spine. 8. 1803. See curvatura, xxxix.

G. Lumbar and psoas abcess, generally from caries. Chomel in River. obs. 2. Perrault, Journ. méd. 1757. Lumbago apostematosa, *Sauvages*, II. 140; ab arthrocace, 141. Schoenmetzel de musculis psoa et iliaco suppuratis. Heidelb. 1776. *Maguire*, Lond. med. journ. VII. 14. *Smith*, Med. facts. IV. 138. *Pearson* princ. surg. 102.

H. Of the bones of the pelvis only. *Ford,* Lond. med. journ. III. 80; affecting the bladder.

I. Of the hip joint. Fabr. Hild. I. obs. 71. River. II. obs. 53. Borell. II. obs. 86. Haen rat. med. I. xxxii. Ischias ex abscessu, *Sauvages,* II. 143. *Lawson,* Dunc. med. comm. XIII. 301; from a fall.

K. Of the upper extremity. *Bent,* Phil. trans. 1774. 353; excision of the head of the humerus.

L. Of the lower extremity. *Laing,* Ed. med. ess. I. 238; *Johnston,* V. 452. *Mackenzie?* Med. obs. inq. II. 299; separation; *Balfour,* IV. 1. *Smith,* Med. records, 53; supplied by ligament. *J. Pearson,* Med. commun. II. 95; taken for aneurysm.

LI. ULCUS.

Ulcer.

An open suppurating sore arising spontaneously.

1. U. *cutáneum.* Confined to the skin.
2. U. *profun'dius.* Extending into the soft parts below the skin.
3. U. *cariósum.* Extending to a bone.

Ulcus. Cull. syn. cxlvi. *Monro,* Ed. med. ess. IV. 313; *Simson,* V. 388; separation of tendons. *Med.* obs. inq. I. 286; lime water; perhaps scrofula; *Whytt,* II. 213; sublimate; *Triguet,* 365; with sarsaparilla; *Rush,* IV. 367; wort. Ulcus, *Sauvages,* I. 240; Sinus, Fistula, 241. *Faure,* M. Ac. chir. V. 821; heat. B. Bell on ulcers. 8. Ed. Lond. 1787; Med. comm. Ed. IV. 277; *Dease,* V. 299; on extirpation. Un-

derwood on ulcers. 8. Lond. 1783; Lond. med. journ. IV. 255. *Rait*, Dunc. med. comm. IX. 354; bark and wine. *Butini*, Lond. med. journ. VI. 404; gastric juice: *Hunczovsky*, X. 295; decoction of walnut. *Hooper*, M. Med. soc. Lond. II. 509; haemorrhage. Home on ulcers. 8. Lond. 1797.; Dunc. med. comm. XVIII. 87; Ann. 1798. 45. Weber Helcologie. 8. Berl. 1792. *Home*, Tr. soc. med. ch. kn. I. 330. *Simmons*, Med. facts. VII. 77. *Baynton* on old ulcers. 8. Brist. 1797; Dunc. ann. 1798. 34; *Simmons*, 1797. 339; on Baynton. *Hammick*, Dunc. ann. 1797. 403; *Paterson*, 1798. 409; nitrous vapour. Whateley on ulcers. 8. 1799. Little on the contagious ulcer of the navy. 8. 1809.

† Helcosis, *Sauvages*, II. 619. See scrofula, lxiv.

1. *Ulcus cutaneum.* Exulceratio, *Sauvages*, I. 241. Sore nipples; Underwood on ulcers.

2. *Ulcus profundius.*

A. Of the eye. *Ledran*, M. Ac. chir. I. 440.

B. Of the mouth. *Watson*, Med. trans. III. 325; from transplanting a tooth; perhaps U. cariosum; also *Lettsom*, M. Med. soc. Lond. I. 330; one in 20 transplanted teeth occasions it, and 1 in 4 cases is fatal; and *Spence*, Lond. med. journ. X. 243. *Pearson*, princ. surg. 28; canker.

C. Of the pharynx or oesophagus. *Garthshore*, Med. commun. I. 242.

D. Of the larynx. *Wathen*, M. Med. soc. Lond. I. 278; *Dyson*, IV. 390.

E. About the chest. *Reeve*, Ed. med. journ. I. 159; fungous sore of the breast.

F. About the abdomen. Fistula discharging chyle.) Morton phthisiol. I. x. Hofm. suppl. II. ii. Discharging bile.) Horst. opp. II. 11. Haen rat. med. X. 32. At the umbilicus.) Stalpart. I. 58.

G. About the rectum. Fistula. Majault, Journ. méd. XLI; Med. comm. Ed. III. 61; leaden wire. *Dillon*, Lond. med. journ. V. 392; caustic; *Savigny*, XI. 228; an instrument. *Mudge*, M. Med. soc. Lond. IV. 16. *Baillie's* engr. 77. Luxmore on strictures.

H. Of the rectum and urinary passages or vagina. Barthol. act. Hafn. II. 44, III. 40. Mauriceau II. 87, 90. *A. Fothergill*, Med. comm. Ed. II. 192, 194. *Garlick*, Lond. med. journ. V. 188. *Johnstone*, M. Med. soc. Lond. III. 542; Mitford, 600.

I. Of the bladder. *Lowdell*, M. Med. soc. Lond. III. 497. *Baillie's* engr. 139.

K. Of the urethra and perinaeum. *Petit*, M. Ac. chir. I. 619. *Gehagan*, Dunc. med. comm. XIV. 271. *Burt*, Dunc. ann. 1798. 354. *Baillie's* engr. 173.

L. Of the testis. *Ingham*, Med. obs. inq. II. 273; fistula.

M. Of the uterus. Broughton de ulcere uteri. 8. Ed. 1755; Smellie thes. II. 305. *Baillie's* engr. 183; "malignant."

N. Of the legs. *Else*, Med. obs. inq. IV. 347; bandages. Underwood on ulcers. *Henderson*, Dunc. med. comm. XIII. 292. Rush, Med. inq. II; Dunc. med. comm. XX. 53. *Ed.* med. journ. I. 187; *Webb*, VI. 159.

3. *Ulcus cariosum.* See apostema cariosum, of which it is often a sequel: see also Gangraena.

LII. GANGRAENA.

Gangrene.

The death and consequent decay of a part of the body.

1. G. *spontánea.*	The circulation having been apparently uninterrupted.
2. G. *atroph'ica.*	The circulation having been interrupted.
3. G. *alopécia.*	Death and falling off of the hair.

1. *Gangraena spontanea.* Gangraena, post Phlogosin, Cull. syn. vii ; without foetor; Sphacelus, post Gangraenam; fetid and " spreading." Galen tum. xi. Fabr. Hildan. passim. Lecat, Cowper, Phil. trans. Douglas on mortifications. 8. Lond. 1732; " quod cortex non sanat insanabile est." *Goolden,* Ed. med. ess. III. 35, *Paisley,* 43, *others;* IV. 47, and *Grindall,* Phil. trans. 1757. 379; bark. *Quesnay* de la gangrene. 12. Par. 1749. *Morgagni,* ep. 55, n. 24. *Wollaston* and *Bones,* Phil. trans. 1762. 523, 526, 529, 584. *Antrobus,* Med. obs. inq. II. 152. Gangraena, *Sauvages,* II. 614. *Aikin,* Med. comm. Ed. II. 417 ; threatened. *Berthe, Capdeville,* and *Lapeyronie,* M. Ac. chir. V. 381. 396, 404; gums. *Jussieu* and others, M. Soc. R. méd. I. 260; feu St. Antoine: See clonus raphania; *Jeanroi,* V. 151. *Power,* Med. trans. III. 47; fermenting cataplasms. *Hamilton* and *Grant,* Lond. med. journ. V. 75, 191. VI. 130; opium. *Watson,* Dunc. med. comm. XI. 323. *Luttrell,* M. Med. soc. Lond. I. 60; alkalis and acids separately; *Hubbard,* 462. *Brandish,* Lond. med. journ. VIII. 123. *Wilmer,* Dunc. med. comm. XIV. 302. *Latham,* Med. commun. II. 163. C. White on gangrenes with spasms. 8. Warringt. 1790; Lond. med. journ. XI. 167. *Church,* M. Med. soc. Lond. III. 529. *Paterson,* Med. facts. VIII. 111; gangrene of the stomach from lightning. Kausch Erfahrungen. *W. White,* M.

Med. soc. Lond. IV. 74; omentum sphacelated, without fever. *Harness*, Tr. soc. med. ch. kn. II. 164; gastric juice to gangrenous sores. Neumann vom brande. 4. Vienn. 1801. Maunoir; Ed. med. journ. IV. 285; cornea. *Pearson* princ. surg. 114.

B. Exfoliations. *Quesnay*, M. Ac. chir. I. 293. *Cullum*, M. Med. soc. Lond. I. 194; cranium. *Loftie*, Lond. med. journ. IX. 57; jaw. *Edwards*, M. Med. soc. Lond. III. 555; sacrum. *Whateley*, M. Med. soc. Lond. I. 469; Med. commun. II. 386; tibia.

C. Surrounded by a swelling of the bone. Necrosis. Spina ventosa. See Apostema. Timmermann de spina ventosa. 4. Rint. 1765. *Mem.* Ac. chir. V. 355. Arthrocace, *Sauvages*, I. 242. Acrel II. 105, 110. Mezger opusc. acad. i. *Prousselin*, M. Soc. R. méd.; Lond. med. journ. VII. 263. *Weidmann* de necrosi. f. Frankf. 1793. *Russel* on necrosis, 8. Ed. 1794; Dunc. med. comm. XX. 182. Augustin de spina ventosa. 4. Hall. 1797; "exhibits great learning and diligence." Rothe.

2. *Gangraena atrophica. Morgagni?* ep. 55, n. 22; from contusion.

3. *Gangraena alopecia.* Oribas. VIII. 22. .24. Aët. II. ii. 55. Fernel. cons. I. Forest. VIII. i. 2. .8. XXXII. 25. Ballon. I. 166; with headache; cons. II. 17. Schenk, I. 8, 10; sometimes a native deformity; said to be unknown in eunuchs; Heist. wahrn. *Wells*, Tr. soc. med. ch. kn. II. 264; universal, without other disease.

ORDER II. *EPIPHYMATA.* ERUPTIONS.

Turner de morbis cutaneis.

Lorry de morbis cutaneis. 2 v. 4. Par. 1757, 1777; H. Soc. R. méd. I. 98.

Plenck de morbis cutaneis. 8. Vienn. 1776.

Dimsdale de morbis cutaneis; Webster m. pr. III. 140.

Med. comm. Ed. V. 324; galium aparine.

Smyth, Med. commun. I. 191; lytta, ac. sulf. tinct. veratr. sometimes adding valerian.

Dunc. med. comm. XIII. 413; nitrate of mercury, for Ward's white drop.

Jackson dermatopathologia. 8. Lond. 1792; Dunc. med. comm. XIX. 95; general rather than particular.

Clarke, Trans. Ir. Ac. VI. 3; in infants.

Wedekind über die cachexie. 8. Leipz. 1796.

* WILLAN on cutaneous diseases. 4. Lond. 1798... Ed. med. journ. II. 56. V. 73.

Alibert Maladies de la peau. f. Par. 1806... Ed. med. journ. III. 448. V. 199. VI. 198.

I have thought it better to follow Dr. Willan's arrangement in this order, with very little alteration, than to attempt to introduce definitions and subdivisions more strictly methodical, the subject having been too little investigated to allow of our attempting perfect accuracy of classification.

LIII. LICHENIASIS.

Pimples.

An eruption of red papulae, or acuminated pimples, not suppurating, but generally turning to scurf.

1. L. *stroph'ulus.* Wholly or partly of a vivid red, caused by some constitutional irritation in infants.
2. L. *adultórum.* In adults, usually of a less vivid red.

1. *Licheniasis strophulus.* Strophulus. Will.

A. Red gum. Str. intertinctus. Will.

B. White gum; generally surrounded by a red tinge. Str. albidus. Will.

C. Rank red gum, or tooth rash. Str. confertus. Will.

D. Patchy red gum. Str. volaticus. Will.

E. Smooth white gum; shining. Str. candidus. Will.

2. *Licheniasis adultorum.* Lichen. Will. Herpes farinosus of some authors. Herpes simplex Sennerti? *Sauvages*, I. 132.

A. Mild pimpled rash. L. simplex. Will. Sometimes occurring in fevers as a scabies critica.

B. Bordered pimpled rash. L. circumscriptus. Will.

C. Virulent pimpled rash; the pimples in clusters, inclined to suppuration, with diffused redness. L. agrius. Will.

D. Hair pimpled rash; at the roots of the hairs. L. pilaris. Will. See Emphragma pilare.

E. Black pimpled rash; with petechiae. L. lividus. Will.

F. Prickly heat; small bright red pimples, very transitory. L. tropicus. Will.

† Exanthisma erythema D.

LIV. PRURIGO.

Itchings?

An eruption of pimples, not apparently inflamed, with a troublesome itching.

There is certainly some itching in some of the cases of Licheniasis; but in this genus the itching is a more prominent feature.

1. P. *mitis.* With well marked pimples, simply itching.
2. P. *formicans.* With a sensation of itching, creeping, tingling and burning.

3? P. *obscura.* With scarcely any pimples.

1. *Prurigo mitis.* Willan.

2. *Prurigo formicans.*

A. In youth. Prurigo formicans. Will.

B. In old age. Prurigo senilis? Will.

3. *Prurigo obscura.* If no pimples have ever appeared, this disease becomes identical with the Autalgia pruriginosa, v.

A. Prurigo podicis. Will. Often from worms. *Lettsom,* M. Med. soc. Lond. III. 346.

B. Pr. praeputii. Will.

C. Pr. urethrae. Will.

D. Pr. pubis. Will.

E. Pr. pudendi muliebris. Will. Sometimes with aphthae or leucorrhoea. *Lettsom,* M. Med. soc. Lond. III. 346.

LV. LEPIDOSIS.

Scales.

An eruption of scales or crusts.

1. L. *pityríasis.* Patches of thin scales, not forming crusts, without fissures or excoriations. Dandriff.
2. L. *psoríasis.* Irregular patches, with a rough and chopped cuticle. Scaly tetter.
3. L. *lépra.* Circular patches of different sizes. Leprosy.
4. L. *ichthyósis.* The scales being harsh, dry, and almost horny.

1. *Lepidosis pityriasis.* Pityriasis. Will. Tinea furfuracea Sennert? See phlysis porrigo.

A. Pityriasis capitis. Will. Tinea furfuracea, T. asbestina? Alibert. In children or old persons; sometimes turning to Phlysis porrigo.

B. Red; the redness succeeded by scales. Pityriasis rubra, Will.

C. Coloured. Pityriasis versicolor. W.

2. *Lepidosis psoriasis.* Psoriasis. Will. Impetigo of many authors. Often syphilitic.

A. Droplike. Ps. guttata. Will.

B. Diffused. Ps. diffusa. Will. Baker's itch?

C. Serpentine. Ps. gyrata. Will.

D. Infantile. Ps. infantilis. Will. Often causing alopecia.

E. Ocular. Ps. ophthalmica. Will.

F. Labial. Ps. labialis. Will. On the lips.

G. Praeputial. Ps. praeputii. Will.

H. Scrotal. Ps. scrotalis. Will. Sometimes following prurigo.

I. Palmary. Ps. palmaria. Will.

K. Unguicular. Ps. unguium. Will.

L. Inveterate. Ps. inveterata. Will. Almost universal.

3. *Lepidosis lepra.* Lepra. Will. Cull. syn. lxxxviii. Leprosy of the Greeks. Galen. tum. xiii; on the qual. of the juices.

Forest. chir. IV. 9. Horst. opp. II. 325. Willis pharm. rat. II. iii. 7. *Peyssonel?* Phil. trans. 1757. 38; in Guadaloupe. *Joannis?* Med. obs. inq. I. 201; in Provence; scales and tubercles. Lepra, *Sauvages*, II. 572. *Pulteney*, Phil. trans. 1772. 469; the oenanthe crocata, given instead of the sium, was beneficial. *Vidal?* M. Soc. R. méd. I. 161; Martigues. Schilling de lepra. 8. Leyd. 1777; Med. comm. Ed. V. 260. *Chamseru*, M. Soc. R. méd. V. 196; in France. *Davidson?* Med. facts. III. 61; from copper. *Falconer*, M. Med. soc. Lond. III. 368. Bonorden de lepra squamosa. 8. Hall. 1795. Rothe, med. litt. 507? *Chisholm*, Dunc. ann. 1800. 395; nitric acid. See phymatosis.

A. Common; smooth red spots, becoming covered with a convex whitish crust. L. vulgaris. Will.

B. Excavated; the crusts being depressed; the patches smaller than in the former variety. L. alphoides. Will.

C. Black; the patches livid. L. nigricans. Will.

4. *Lepidosis ichthyosis.* Ichthyosis. Will. Avicenn. II. 244, de morphaea, ix. Act. Lips. 1688. 617. Stalpart. II. 35. Hofm. disq. 138. Vater, Phil. trans. n. 140; *Baker*, 1755. 21. Buffon hist. nat. II. 507. Hall. phys. V. 13. Lepra ichthyosis, *Sauvages*, II. 572. See phymatosis elephantiasis, lx.

A. The skin remaining flexible. I. simplex. Will.

B. The skin being stiff. I. cornea. Sometimes with distinct horns.

C. Each scale forming a spine. I. spinosa. Homme porc épic.

† Pellagra? Jansen de pellagra. 8. Leyd. 1787. Titius de pellagra. 4. Wittenb. 1792. Strombio, von Weigel. 8. Leipz. 1796.

LVI. EXANTHISMA.

Rash.

An eruption of red patches, not acuminated, generally terminating in cuticular exfoliation.

1. E. *urticária.* With patches or stripes somewhat elevated, and pale in the middle. Nettle rash.
2. E. *roséola.* Rose coloured, irregular, without elevation, not contagious.
3. E. *pur'pura,* Small distinct purple specks, with debility. Land scurvy.
4. E. *erythéma.* Nearly continuous and uniform, without vesication or general swelling. Red rash.

1. *Exanthisma urticaria.* Urticaria, Will. *Heberden,* Med. trans. II. 173; salivation by calomel succeeded with Monsey; I have known it fail in a case nearly similar. Y. *Winterbottom,* Med. facts. V. 57; from poison.

A. Without extensive efflorescence. U. evanida. Will.

B. Remaining several days. U. perstans. Will.

C. Crowded. U. conferta. Will.

D. Partly invisible, but tingling. U. subcutanea. W.

E. With hard and thick tubercles. U. tuberosa. W.

F? With fever. U. febrilis. W. See Erysipelas urticatum, to which the disease must be referred when the fever is primary.

† Venenationis symptoma. Phoenigmus a venenis, *Sauvages*, II. 555; the cuticle separating.

2. *Exanthisma roseola.* Roseola. Will.

A? R. aestiva. Will. Generally preceded by some days of fever, and sometimes with enlarged tonsils.

B. R. autumnalis. Will. Oval and dark.

C. R. annulata. Will. In spreading rings.

D. R. infantilis. Will.

E. R. variolosa. Will. From the small pox; not uncommon.

F. R. vaccina. Will. From the cow pox, with fever; rare.

G. R. miliaris. Will. With miliary fever; sometimes occurs in typhus.

3. *Exanthisma purpura.* Purpura. Will. Phoenigmus petechialis, *Sauvages*, II. 594. Cannot be said to terminate "in cuticular exfoliation." Sometimes accompanied by colourless tubercles, or by a painful thickening of the skin. Heberd. comm. See Profusio.

A. P. simplex. Will.

B. P. haemorrhagica. W. With haemorrhage, vibices, and anasarca.

C. P. urticans. W. At first elevated.

D? P. contagiosa. W. A symptom of typhus.

E. P. " oxyadica ;" (acidigena.) W. From the use of acids.

4. *Exanthisma erythema.* Erythema. Will. Erythema, *Sauvages,* I. 137; sometimes.

A. Irregular patches of short duration. E. fugax. W. Often an unfavourable symptom in various diseases. E. volaticum? Sauv. I. 139.

B. In shining patches, spreading and becoming confluent. E. laeve. Will. Often with anasarca.

C. With a hard red border. E. marginatum. Will.

D. Beginning with obscure and fugitive papulae, then remaining red. E. papulatum. Will.

E? With softish tubercles, subsiding before the erythema. E. tuberculatum. Will. Generally febrile.

F. The patches rising gradually in the middle, so as at last to form knots, which subside and leave livid spots. E. nodosum. Will.

G. From friction of contiguous parts. E. intertriginosum. Will. Intertrigo, Sennert. Erythema intertrigo, *Sauvages,* I. 139: Proctalgia intertriginosa, II. 145.

LVII. POMPHOLYGMUS.

Blains.

An eruption of large thin vesicles, containing a serous fluid, not suppurating, except from accidental distension, succeeded by a yellow or blackish scab.

1. P. *pom'pholyx.*	Vesicles or bullae, without surrounding inflammation, and without fever. Waterblebs.
2. P. *epinyc'tis.*	Phlyctaenae, or vesicles with dark red bases, most troublesome at night.
†3. P. *pem'phigus.*	With phlyctaenae arising in succession in different parts of the body, without tumefaction or redness, and with fever.
†4. P. *erysipelat'icus.*	With redness irregularly circumscribed, and disappearing when pressed, and with fever.

1. *Pompholygmus pompholyx.* Pompholyx. Will. *Gaitskell?* M. Med. soc. Lond. IV. 1; pemphigus without fever.

A. Transparent, of the size of a pea, soon healing. P. "benignus," [benigna]. Will.

B. Spreading over a great part of the body in succession, and enlarging rapidly. P. "diutinus." Will. Hydrops vesicalis. Eugalenus. Sometimes called pemphigus.

C? Solitary, but succeeded by a new one in a neighbouring part; often containing some ounces of fluid. P. "solitarius." Will. See Hydrops bulla, xliv.

2. *Pompholygmus epinyctis.* Epinyctis, *Sauvages*, I. 134.

3? *Pompholygmus pemphigus.* Pemphigus. Will.

A. Not contagious. P. vulgaris. Will. Galen epid. vi. C. Pison. obs. 147-9. Delii amoen. med. 71. Pemphigus major, *Sauvages*, I. 430.

B? Epidemic. P. contagiosus. Will. Doubtful. See Typhus vesicularis, xviii.

C. The vesicles oblong and flattened, followed by ulcerations. P. infantilis. Will.

† Scarlatinae, pestis, dysenteriae symptoma.

4? *Pompholygmus erysipelaticus.* Erysipelas. Will.

A. Dark red and smooth, of an inflammatory type. E. phlegmonodes. Will.

B. Pitting. E. oedematodes. Will.

C? Becoming gangrenous, with typhous fever. E. gangraenosum. Will.

D. Wandering from one part of the body to another. E. erraticum. Will.

LVIII. CYSTISMA.

Vesicles.

An eruption of vesicles, small, round, and not always distinct, succeeded by scabs or crusts.

1.	C. *her'pes.*	Uniting into thick crusts. Ringworm, or shingles.
2?	C. *íris.*	A vesicle surrounded by concentric circles.
†3.	C. *miliária.*	Small, thick, and little elevated, symptomatic of fever.
4.	C. *ec'zema.*	From the effects of heat.
5.	C. *aphthósum.*	Flaccid and flat separations of the surface of a mucous membrane. Thrush.
†6.	C. *varicellósum.*	Appearing on the fourth day of fever, and bursting in three days.
7?	C. *mercuriále.*	Vesicles indistinct, skin at first red and hardish, afterwards a watery discharge.

1. *Cystisma herpes.* Herpes ? Cull. syn. cxlvii. Galen to Glauc. II. i. ii; tum. ix. Forest. chir. II. n. 5..14. V. n. 5. Ballon. cons. II. 28. III. 12, 104. Herpes, *Sauvages*, I. 132; sometimes. Armstrong. Stoll prael. I. 45; supposed scrofulous. Gempt de herpete. 8. Marb. 1791. *Bishopric?* Dunc. med. comm. XVIII. 387; a lymphocrustaceous eruption, cured by calomel and antimony. Hufel. journ. Dufresnoy sur le rhus radicans. 8. Par. 1799; Dunc. ann. 1799. 182. Ed. med. journ. II. 325. The herpes of Alibert is not identical with the disease here defined.

A. Circular, stinging and itching, spreading, often moist. H. serpigo, *Sauvages*, I. 132. Formica ambulatoria, Cels. Turner morb. cut. v. sp. 2. *Freer*, Dunc. ann. 1800. 371.

B. Small clustered vesicles, with some inflammation and fever, sometimes discharging a viscid fluid. H. miliaris, *Sauvages*, I. 132. Sennert. V. xvii. Hofm. II. 426. Turn. morb. cut. v. sp. 3.

C? With superficial ulcerations. H. esthiomenos, *Sauvages*, I. 133. Galen meth. med. xvii. Turner morb. cut. v. sp. 4. Med. comm. Ed. IV. 415, from Bang; cured by jalap, bark, and sassafras. *Grenville*, Ed. med. journ. VI. 305; the sores pouring out animalcules with pus.

D. Surrounding the neck. H. collaris, *Sauvages*, I. 133.

E. Surrounding the body. H. zoster, *Sauvages*, I. 134. Hofm. II. 426. Russel de aq. mar. 124. Fordyce's fragm. *Albers*, Dunc. ann. 1801. 382; pustular; perhaps rather impetigo.

F. Surrounding the knee. H. periscelis, *Sauvages*, I. 133.

2. *Cystisma iris.* Iris. Will. Ed. 1.

† 3. *Cystisma miliaria.* See Synochus, xvii.

4. *Cystisma eczema.*

5. *Cystisma aphthosum.* Forest. XIV. 21, 22. Armstrong. Colombier, Hist. Soc. méd. 1779. Stoll rat. med. II. 167; app. 273; pracl. II. 436. Arneman de aphthis. 8. Gott. 1787; Dunc. med. comm. XIV. 223. *Baillie's* engr. 49.

B. Snuffles, a kind of nasal thrush. Denman, Lond. med. journ. XI. 374. Denm. on rupt. uter.

† 6. *Cystisma varicellosum.* See Synochus, xvii.

7. *Cystisma mercuriale. Spens,* Ed. med. journ. I. 7; *Macmullin,* II. 25; " erythema mercuriale, confounded in Willan's reports with pemphigus." Alley on hydrargyria. *Mathias* on the diseases produced by mercury. 8. Lond. 1810.

LIX. PHLYSIS.

Pustules.

An eruption of small suppurating tumours.

1. Ph. *furunculósa.*	With a core nearly solid.
2. Ph. *impetígo.*	Itching and turning to a scaly crust, with cracks. Running tetter.
3. Ph. *ecthy'ma.*	Consisting of large inflamed pustules.
4. Ph. *scábies.*	Severely itching, affecting principally the interstices of the fingers; contagious. Itch.
5. Ph. *porrígo.*	At the roots of the hairs, mixed with scales.

† Synochus variola, xvii, Licheniasis adultorum B, liii.

1. *Phlysis furunculosa.*

A. Boils. Seldom too large to be covered by a finger, and not gangrenous. Phyma. Will. Phlogosis phlegmones varietas, Cull. syn. vii. 1. Furunculus, *Sauvages,* I. 146. *Pearson's* princ. surg. 70.

B. Carbuncles. Larger, more inflamed and livid, and often gangrenous. Phlogosis erythematis varietas, Cull. syn. vii. 2. Galen tum. VI; to Glauc. II. i. Fabr. ab Aquap. 47. Forest. chir. I. n. 11, 12. Werlhof opp. II, III. 745. Anthrax, *Sauvages*, I. 147. II. 621. *Pearson's* princ. surg. 147. *Hosack*, Ed. med. journ. VI. 445.

2. *Phlysis impetigo.*

A. Without excoriation.

B? *Gooch*, Phil. trans. 1769. 281; a cuticular glove. *Latham*, Phil. trans. 1770. 451; a red eruption, followed by a cuticular exfoliation, occurring repeatedly. Aposyrma, Ploucq. nosol. *Rutter*, Ed. med. journ. V. 143. *Marcet*, Medicoch. tr. II. 73; "erythema not mercurial," the cuticle coming off in large patches, and sometimes the nails; Dr. Willan called it an impetigo, perhaps the impetigo rubra of Celsus. But it can scarcely belong to this genus: it seems to be more nearly related to herpes, unless it be classed under gangraena, with alopecia, to which it has some resemblance.

3. *Phlysis ecthyma.*

4. *Phlysis scabies.* Psora, Cull. syn. cxlix. Galen tum. XIII. Ballon. cons. I. 35. Horst. opp. II. 326, 330. Willis pharm. rat. II. iii. c. 6. Hofm. II. 416. Scabies, *Sauvages*, II. 575. Linné amoen. ac. III. Monro arm. dis. 216. Stoll prael. I. 279. II. 439. Hallé and others, M. Soc. R. méd. III. 162, 187; cured by plumbago europaea. Wichmann Aetiologie der krätze. 8. Hannov. 1791. Guldener über die krätze. 8. Prag. 1795; "an excellent work." Rothe.

A? Simple.

B. With the acarus scabiei. A parasitismus.

5. *Phlysis porrigo.* Tinea, *Sauvages,* II. 578. Forest. III. n. 17, 18. VIII. n. 12, 13, 21, 22. XXXI. n. 5; chir. V. n. 8. Ballon. cons. II. 19. III. 58. Mauriceau, I. 510. Wepfer obs. 962. Med. comm. Ed. V. 308. Stoll prael. 40, 46, 49. Baldinger N. mag. VIII. 171. Mursinna beob. II. 107. *Morison,* Dunc. ann. 1797. 246; a paste of ale and flour. *Barlow,* Ed. med. journ. I. 248; sulfuret of potass, with soap, lime water, and spirit. Luxmore on strictures.

A. In infants at the breast, on the forehead and temples, pouring out a little of a mild fluid. Tinea lactea, *Sauvages,* II. 579. Strack de crusta lactea. 8. Frankf. 1779. Germ. by Weitz. 8. Weim. 1788; Lond. med. journ. II. 187; viola tricolor.

B. On the chin, about the time of dentition, throwing out a purulent serum. Tinea volatica, Sauv. II. 579.

C. Resembling a honeycomb, containing a viscid matter. Tinea favosa, *Sauvages,* II. 580. Aët. VI; meliceris. Alibert, T. favosa.

D. With yellowish grains in the cells. Tinea ficosa, *Sauvages,* II. 580. Astruc, I. 380. Alibert, T. granulata?

E. Very moist, but not cellular. Tinea humida, *Sauvages,* I. 580. Astruc, I. 380. Alibert, T. muciflua?

F. Nearly dry, after ulceration. Tinea porriginosa, crustacea, lupina, *Sauvages,* II. 581. Tinea, Cull. syn. cxlviii.

LX. PHYMATOSIS.

Tubercles.

An eruption of circumscribed and permanent tubercles, scarcely suppurating.

1. Ph. *verrucósa.* A collection of warts.
2. Ph. *mollus'ca.* An eruption of small soft wens, lupiae.
3? Ph. *vitiligo.* An eruption of white smooth tubercles.
4. Ph. *ac'ne.* Red tuberculated swellings, especially of the face.
5? Ph. *lúpus.* A thickening with small ulcerations, healing and spreading, especially of the nose. Noli me tangere.
6. Ph. *elephantíasis.* A pale swelling and thickening of the integuments of a limb, the hairs falling off, the sensibility impaired.
7. Ph. *framboésia.* The tumours having a tuberculated and fungous appearance, partially covered with scabs. Yaws.

† Exanthisma purpura, lvi.

1. *Phymatosis verrucosa.* See Ecphyma, xlviii.

2. *Phymatosis mollusca.* See Atheroma, xlvii. *O'Donnell,* Lond. med. journ. VI. 33; encysted tumours, or melicerides.

3. *Phymatosis vitiligo.* Vitiligo? *Sauvages,* I. 127; the spots rather depressed than elevated; but there are probably elevations intermixed: if not, the disease ought to constitute a distinct genus.

A. Pale, not affecting the hair. V. alphus, Lepre des Juifs, *Sauvages*, I. 127.

B. White, the hairs falling off. V. leuce, *Sauvages*, I. 127. Bonet. sep. I. 764.

C. Brown. V. melas, *Sauvages*, I. 127. Avicenn. II. 244. c. 20.

4. *Phymatosis acne.* Phlogosis phlegmones varietas, Cull. syn. vii. 1. Gutta rosea, *Sauvages*, I. 129. Forest. XIII. n. 3. Wepfer obs. 973.

5. *Phymatosis lupus.* Cancer lupus? *Sauvages*, I. 148. Herpes exedens, Alibert. Affections of the nose and face, often called cancerous, but in reality belonging to this genus, appear to be benefited by arsenical caustics, sarsaparilla, and mercurial medicines. Y.

6. *Phymatosis elephantiasis.* Elephantiasis, Cull. syn. lxxxvii, *Sauvages*, II. 567. Aret. chron. II. xiii. Plin. XXVI. i. *T. Heberden*, Med. trans. I. 23. *Cooke*, Ed. med. journ. III. 18; nitric acid; Edmonston, VI. 161. *Chevalier*, Medicoch. tr. II. 63; resembling ichthyosis. See Lepidosis lepra, lv.

A. Arabian leprosy. E. orientalis, *Sauvages*, II. 568. Ap'har Alí Khán, Med. facts. IV. 168; arsenic. Rothe med. lit. 507.

B. Javanese. E. Javanensis, *Sauvages*, II. 568. Cleyer, Eph. N. C. Dec. 2. Ann. 2.

C. Indian. E. Indica, *Sauvages*, II. 569. Couzier, Journ. méd. Dec. 1757.

D. Egyptian. Seems to approach to ichthyosis. Medicoch. tr. II.

E. Leprosy of Provence. E. legitima, *Sauvages*, II. 568. Journ. méd. 1765. 558. *Vidal*, M. Soc. R. méd. I. 161. V. 168.

F. Barbadoes leg. Hillary Barb. 383. Rollo on the glandular disease of Barbadoes. 12. Lond. 1785. *Chevalier*, Medicoch. tr. II. 63; observes that the cutis and cuticle remain natural.

G. Norvegian. Tode et Gislesen de elephantiasi Norvegica. 8. Copenh. 1785.

7. *Phymatosis framboesia.* Framboesia, Cull. syn. lxxix, *Sauvages*, II. 554. Ed. med. ess. V. ii. 787. Hillary Barb. 402. *Med.* comm. Ed. II. 91; vapour bath and ointment of citrate of iron. *Chisholm*, Dunc. ann. 1800. 395. *Adams*, M. Med. soc. Lond. VI. 82.

LXI. SYPHILIS.

Lues.

Corroding ulcers, especially of the tonsils, pains in the bones, nodes, and cutaneous eruptions, separate or united.

1. S. *malig'na.*	Communicated only by contact with a mucous membrane, or an excoriated surface.
2? S. *scot'ica.*	Communicated by simple contact, and accompanied by tuberculated eruptions. Sivvens.
3??S. *pseudosyph'ilis.*	Not curable by mercury?

1. *Syphilis maligna.* Syphilis, Cull. syn. lxxxv. De morbo Gallico quae extant. 2 v. f. Ven. 1566. Massa. Faloppius.

Fracastorius. Luisinus. Hutten. Boerhaave. Astruc de morbis venereis. 2 v. 4. Par. 1740. *Morgagni*, ep. 58, 59, de lue venerea. Fabre. Plenck. Swieten. Med. obs. inq. II. 70; on corrosive sublimate; Russel, 88. W. Fordyce on the venereal disease. 8. Lond. 1767. Syphilis venerea, *Sauvages*, II. 559. Walsh de luis stadio confirmato; Webst. med. pr. III. 101. *D. Monro*, Med. trans. II. 325. Dease on the v. disease. 8. Dubl. Dunc. med. comm. VIII. 25; *Causland*, 267; cases. Swediar on v. complaints. 8. Lond. 1784; Lond. med. journ. VI. 82. * *J. Hunter* on the v. disease. 4. Lond. By Home. 8. Lond. 1811. * Gruner aphrodisiacus. f. Jen. 1789; a continuation of Luisinus, containing 64 works. Fritze Handbuch. 8. Berl. 1790. Clossius über die lustseuche. 8. Tub. 1797. * Girtanner über die venerische krankheit. 3 v. 8. Gott. 1797; Dunc. med. comm. XIV. 254; the second and third parts contain extracts of more than 1800 works, judiciously selected. Stair on the v. disease. 8. Lond. 1798; Dunc. ann. 1798. 91. Swediaur Traité. 2 v. 8. Par. 1798. *Pearson's* observations. 8. Lond. 1800; Dunc. ann. 1801. 267. Rees on lues, with an account of English writers. 8. 1802. Howard on the v. disease. 2 v. 8. 1806. Martens et Tilesius icones symptomatum venerei morbi. 4. Leipz. *Wilson*, Ed. med. journ. II. 274; in the S. Sea islands, former accounts exaggerated, but the population much diminished by a similar disease. Communication.) *Barry*, Ed. med. ess. III. 323; a woman drawing breasts. Remedies.) *Monro*, Ed. phys. ess. III. 402; dec. sarsap. *Fordyce*, Med. obs. inq. I. 149; sarsaparilla; *Al. Gordon*, II. 256; sublimate. *Buquet*, Dunc. med. comm. VII. 425; rob antisyphilitique. *Kirkland*, Lond. med. journ. VII. 1; abuse of mercury. *Coste*, Lond. med. journ. IX. 7; opium. *Crichton*, Lond. med. journ. IX. 405; astragalus exscapus, from Girtanner. *Michaelis*, Med. commun. I. 307; opium. *Collingwood*, Dunc. med. comm. XVI. 274; mercury with sugar. *J. Pearson*, Med. commun. II. 56; opium. Balmis on the agave and begonia. 8. Rom. 1795. Germ. by Kreyssig. 8. Leipz. 1797. Cruickshank on acids in lues.

8. Lond. 1797; Dunc. ann. 1797. 106. Beddoes's testimonies on the treatment by nitrous acid. 8. *Blair*, M. Med. soc. Lond. V. 282. Blair on the effects of the nitrous acid. 8. Lond. 1808. *Kellie*, Dunc. ann. 1797. 254. Particular symptoms.) Lind de morbis venereis localibus. 8. Ed. 1748; Smellie thes. I. 381. Ulcers.] White de ulcusculis venereis; Webst. med. pr. III. 88. *Morison*, Dunc. ann. 1797. 240; arsenic externally. *Crowther*, Ed. med. journ. II. 133. Tumours.] *Petit?* M. Ac. chir. I. 347; on the trachea. *Russel*, Med. obs. inq. III. 189; mezereon for nodes. *Dease*, Med. comm. Ed. IV. 335; warts. *Morton*, Med. facts. III. 50; enlarged nympha. *Baillie's* engr. 211; bones. Gonorrhoea, as related to syphilis.) See inflammatio specifica, xiii. Duncan's cases. Harrison de lue. 8. Ed. 1781; gonorrhoea produced by syphilitic matter. Simmons on gonorrhoea. Lond. Dunc. med. comm. VIII. 42; for the identity. Schlegel Geschichte des streites über die identität. 8. Jen. 1796.

2. *Syphilis scotica. Gilchrist*, Ed. phys. ess. III. 154.

3? *Syphilis pseudosyphilis.* A disease not at all tolerably defined. Arboe über den salzfluss, radesyge, von Hensler. 8. Alt. 1797. Abernethy on tumours, and on diseases resembling syphilis. 8. Lond. 1804; Ed. med. journ. I. 90. Böcker, Ed. med. journ. V. 420; radesyge.

LXII. SCROFULA.

Evil.

Swellings of the glands or bones from a constitutional disease.

1. S. *vulgáris.* Enlarged glands, or partial swellings of the bones. King's evil.
2. S. *rhachítis.* The bones in general being enlarged at their extremities, the head especially in front. Rickets.

1. *Scrofula vulgaris.* Scrophula, Cull. syn. lxxxiv. Galen meth. med. XIV. xi. Arant. tum. 27, 36, 37. Forest. chir. obs. 10, 11. Ballon. cons. III. 34, 59. Severin. absc. III. vii. IV. vi. Schenk? V. 40. Wharton adenogr. xl. Wepfer. obs. p. 980. Dover's legacy. Janin on the eyes. Brown tum. 265, 275. *Russel* de tabe glandulari. 8. Oxf. 1750. *Morgagni*, ep. 50, n. 28, 29. Scrophula, *Sauvages*, II. 542. Armstr. dis. childr. Marx obs. med. I. Med. comm. Ed. V. 168. Westrop de scrofula; Webst. med. pr. III. 54. Stoll rat. med. V. 437. VII. 155; prael. 30. Underwood on ulcers. Walther thes. obs. 85. White on scrofula. Bücking, Balding. N. mag. III. 241. Weber von den scropheln. 8. Salzb. 1793. . . *Hufelaud* über die scrofelkrankheit. 8. Jen. 1797; from his own experience; scrofulous hydatids in the brain, p. 384. *Russell* on scrofula. 8. Ed. 1808; Ed. med. journ. V. 207. Carmichael on scrofula. 8. 1810. Particular symptoms.) *D. Monro?* Med. trans. II. 325; ossifications in the mesentery. *Gahagan*, Dunc. med. comm. XIV. 281; indurated glands, some distended with blood. *Cooper*, Med. records, 86; thoracic duct obstructed. *Baillie's* engr. 68; 123, spleen; 137, kidney; 159? vesiculae seminales; 163, prostate; not all capable of very accurate investigation during

life. Merat, Journ. méd.; Ed. med. journ. II. 405; tubercles in the brain; probably autalgia. Cure.) *Fordyce*, Med. obs. inq. I. 184, *Fothergill*, 303, *Bond*, II. 265; bark. *Streitt*, Med. facts. I. 134; gall as a liniment. *Armstrong*, Dunc. ann. 1801. 370; muriate of barita, in the W. I. *Wood*, Ed. med. journ. I. 147; muriate of lime. Ed. med. journ. III. 185, 322; on the touch. Brandish on caustic alkali. 8. 1811. Armstrong on ammonia. 8. 1812.

A. Simple, principally in the neck. Scrophula vulgaris, Cull. syn. lxxxiv.

B. With swelling of the abdomen, and fetid pale faeces. Scrophula mesenterica, Cull. syn. lxxxiv. 2. *Sauvages*, II. 545.

C. Principally in the bones or joints. Seems to require medicines somewhat different from the other varieties.

† Scrophula fugax, Cull. syn. lxxxiv. 3, inflammationis symptoma; Scrophula Americana, 4, a complication only.

2. *Scrofula rhachitis.* Rachitis, Cull. syn. lxxxiii. Since scrofula seems sometimes to affect the bones only, it is impossible to form a generic character for it which shall exclude rickets; and the diseases, though distinct, are so much allied that they may very properly be referred to the same genus. Glisson, Bate et Regemorter de rhachitide. 8. Lond. 1650; considered as a new disease; Ed. med. ess. V. ii. 904; Hahn thinks it was known to Hippocrates. Mayow opp. tr. v. Duvern. mal. des os. II. 288. Hofm. III. 487. Boerh. 1480. Zeviani della rachitide. Nooth de rachitide. 8. Ed. 1766; Smellie thes. III. 56. Rachitis, *Sauvages*, II. 539. Armstr. dis. childr. Thomassin, Journ. méd. XLIII. 222. Strack, Act. Hassiac.; Med. comm. Ed. II. 47; ferri limat. rhei sing. gr. v. bis die. Med. comm. Ed. IV. 47. Moore de rhachitide; Webst. med. pr. III. 72.

Balding. N. mag. XI. 52. Trnka de rachitide. 8. Vienn. 1787. Veirac sur le rachitisme. Portal sur le rachitisme. 8. Par. 1797; Dunc. ann. 1798. 166.

LXIII. SCORBUTUS.

Scurvy.

Livid spots, especially at the roots of the hairs, sponginess of the gums, general debility, and frequently contractions of the limbs.

1. S. *naúticus.*

† Asthenia beriberia, vii. Hydrops cacotrophicus, xliv.

1. *Scorbutus nauticus.* Eugalenus de scorbuto. Willis opp. I. Lister in Morton. Hofm. III. 369. Junck. 91. Boerh. 1148. Anson's voyage. Monro. Rouppe de morb. navig. Huxham opp. I. 341. Nitzsch de scorbuto exercitus Russici, 1747. Nitzsch vom scharbocke. Lind on the scurvy. 8. Lond. 1757. *Travis,* Med. obs. inq. II. 1; copper vessels; *Pugh,* 241; case. *Huxham,* Phil. trans. 1765. 6; from sea water. Macbride on the scurvy. 8. Lond. 1767. Macbride's experimental essays. 8. Lond. 1769. *D. Monro,* Med. trans. II. 325; *Milman,* 471; from want of nourishment. *Badenoch,* Med. obs. inq. V. 61; wort. Clark. Hulme de scorbuto. Pringle, Med. comm. Ed. IV. 313. *Mertens,* Phil. trans. 1778. 661. *Goguelin,* M. Soc. R. méd. IV. 168. Stoll. prael. 1. C. L. Hofman vom scharbocke. Brereton de scorbuto; Webst. med. pr. III. 36. *Coleman,* Lond. med. journ. II. 117. Milman on scurvy. 8. Lond. 1782; Lond. med. journ. III. 45. Ferris de sanguinis putredine. *Gillespie,* Lond.

med. journ. VI. 373; the putrid ulcer, cured by lime juice. *Guthrie*, Dunc. med. comm. XII. 328; *Brown*, 339; in Russia; *Leedes*, XIII. 320; *Fowler*, XIV. 291; haemorrhage. * *Trotter* on scurvy. 8. Lond. Dunc. med. comm. XVIII. 183; *Tattersall?* XX. 289; fatal petechiae sine febre. Beddoes on calculus. Anderson on the nopal. Madras, 1808.

LXIV. SPILOSIS.

Spots.

Discolorations of the skin, or of the cuticular substances, without constitutional disease.

1.	S. *ephélis.*	Freckles, occurring in hot weather, and generally disappearing in cold.
2?	S. *per'manens.*	Permanent spots, like moles.
3.	S. *poliósis.*	Grey hairs.
†4.	S. *icter'ica.*	A general yellowness.

† Profusio subcutanea, xiv, Phtharma cutaneum, xxxvii, Exanthisma purpura lvi, Deformitas, lxxix.

1. *Spilosis ephelis.* Ephelis, *Sauvages*, I. 128.

2. *Spilosis permanens.* Macula, Spilus, Willan. Galen loc. aff. V. vii. Barthol. act. Hafn. III. 83. Stalpart, II. 36. Steigerthal, Phil. trans. Weikard kl. schr. 266. Chamseru, Soc. R. méd. 1780-1; Lond. med. journ. VII. 280. Hunter med. obs. inq. VI.

B. In negroes, becoming white. *Bate*, Phil. trans. 1759. 175.

† C. With hair, commonly native, a deformitas. Barthol. hist. an. I. 42; ep. II. 667.

3. *Spilosis poliosis.* Forest. VIII. 10. Schenk. I. iii. *How,* M. Med. soc. Lond. III. 515; suddenly becoming white in stripes. Bichat.

4. *Spilosis icterica.* See cholelithia, xxxiii.

CLASS V.

ECTOPIAE.

DISPLACEMENTS.

LXV. LUXATIO.

Dislocation.

The displacement of a bone from its relative situation in a joint.

1. L. *exarthréma.* The derangement of a diarthrosis, or a joint admitting extensive motion.
2. L. *diastasis.* The separation of a joint scarcely admitting motion.

LUXATIO. Cull. syn. cxliv. *Morgagni,* ep. 56, de luxationibus. Pott on fractures and dislocations. 8. Lond. 1768. *Guyenot,* M. Ac. chir. V. 803; old luxations. Aitken on fractures and luxations. 8. Lond. 1790, 1800; Germ. by Reich. Nur. 1793; with valuable additions. *Rumsey,* Med. facts. V. 44; with fracture. *Osborne,* Ed. med. journ. VI. 436; spontaneous.

1. *Luxatio exarthrema.* Exarthrema, *Sauvages,* I. 224. Galen med. xx; on Hipp. on artic. Falopp. opp. II. iii. *Morgagni,* ep. 66, n. 2. 9. Jaw.) *Monro,* Ed. Med. ess. I. 124. III. 261. Spine.) *Maty,* Med. obs. inq. III. 257; with palsy. Sömmering über verrückung und bruch des rückgraths. 8. Berl.

1793. Ribs.) *Buttet*, M. Ac. chir. IV. 573. Shoulder.) *Thomson*, Med. obs. inq. II. 340; *White*, 373. *Chessher*, Lond. med. journ. VIII. 189; emetics. Lower limbs.) Trye on injuries of the lower limbs. 4. 1802. Thigh.] *Moreau*, M. Ac. chir. II. 155; unreduced. *Mackenzie*, Ed. phys. ess. II. 317. *White*, Phil. trans. 1760. 676; *Yonge*, 846. *Travis*, Med. obs. inq. II. 99. *Sabatier*, M. Ac. chir. V. 791; repeated. *Anderson*, Med. comm. Ed. III. 424. *Cribb*, Lond. med. journ. V. 412. *Ed.* med. journ. III. 403.

A. Complete luxation. Luxatio, Vogel.

B. Subluxation. Subluxatio, Vogel. *Guy*, Med. facts. V. 54; a rotation of the astragalus.

2. *Luxatio diastasis.* Diastasis, *Sauvages*, I. 230. Davis, Phil. trans. *W. Hunter?* Med. obs. inq. II. 321; a separation of the ossa pubis, with abscess.

LXVI. HERNIA.

Rupture.

The protrusion of a soft part, through an orifice in a neighbouring part, into a situation not natural to it.

1? H. *encephalocéle.* A protrusion of the brain from the sutures of a child's head, not yet closed.

2. H. *crystalloïnocéle.* A protrusion of the crystalline lens into the aqueous humour.

3. H. *gastrocéle.* A rupture of the stomach, generally indicated by occasional hiccup, with vomiting, and a peculiar pain.

4. H. *enterocéle.*	A rupture of an intestine, with a pain more griping when pressed.
5. H. *epip'loocéle.*	A rupture containing the omentum, feeling like dough, without peculiar sensation when pressed.
6. H. *hépatocéle.*	A rupture containing part of the liver, with biliary symptoms, and sometimes a pain in the shoulder.
7. H. *splenocéle.*	A rupture containing the spleen, distinguishable by its rounded form, and spongy substance.
8. H. *cystocéle.*	A hernia of the bladder, the tumour subsiding after an evacuation of its contents.
9. H. *hys'terocéle.*	A hernia of the uterus, discoverable by examination.
10. H. *oáriocéle.*	A rupture containing an ovary, little prominent, and hardish, not affecting the functions of the intestinal canal.

HERNIA. Cull. syn. cxlii. Gunzius de herniis. *Jamieson*, Ed. med. ess. I. 227; gangrenous. *Peyronie*, M. Ac. chir. I. 337; sphacelated; *Garengeot*, 699. Arnaud on hernia. 8. Lond. 1748. *Cookesley*, Ed. med. ess. V. 427, and *Symons*, Med. obs. inq. III. 64; with gangrene. *Lecat*, Phil. trans. 1751. 324, 341; *Carlisle*, 1766. 133. *Morgagni*, ep. 43; de herniis. *Pipelet*, M. Ac. chir. IV. 164; gangrenous; *Goursaud*, 243; *Louis*, 281. *Else*, Med. obs. inq. IV. 355. *Heberden*, Med. trans. II. 507; doubts the effect of stricture in strangulation. *Chalmers*, Med. comm. Ed. I. 413. *Sabatier*, M. Ac. chir. V. 592; Camper, 626; trusses; *Bordenave*, 651, 881; danger of caustic. Richter de herniis; Med. comm. Ed. V. 269. * *Richter* von den brüchen. 8. Gott. 1785. *Ford*, Lond. med. journ. VI. 118; *Cribb*, 259. *Helsham*, Dunc. med. comm. XIII. 280. *Clowes*, Lond. med. journ. X. 72. *Livingston*, M. Med. soc. Lond. III. 568;

Say, 581; with cramp; *Werner*, 589, 590. *Hughes*, Dunc. med. comm. XVII. 487; ether, as producing cold. *Livingston*, M. Med. soc. Lond. IV. 420. Sömmering über die nabel und leistenbrüche. 8. Frankf. 1797. Köler über die brüche. 8. Zelle, 1797. Vogel Methode den ileus zu heilen. 8. Nur. 1797; laxatives with opium. *Borthwick*, Dunc. ann. 1799. 466. *Fryer*, Tr. soc. med. ch. kn. II. 305; strangulated for 8 days. Sheldrake's hints. 8. Lond. 1803. *Baillie's* engr. 85. * *A. Cooper* on hernia, 2 v. f. Lond. 1804-7; Ed. med. journ. II. 241, IV. 224. *Kellie*, Ed. Med. journ. II. 307; 313, *sphacelated*. * *Lawrence* on hernia. 8. Lond. 1808. Travers on injuries of the intestines. 8. Lond. 1812. Thoracic.) *Cooper*, Med. records, 1. Umbilical.) *Suret*, M. Ac. chir. II. 334. Parietal and scrotal.) *Russel*, Ed. trans. V. 23. Inguinal.) *Monro*, Ed. med. ess. V. 270. *Delaunay*, M. Ac. chir. I. 697. *Gibson*, Med. obs. inq. IV. 178. *Baillie's* engr. 175; with hydrocele. *Lee*, M. Med. soc. Lond. VI. 70; natural passage of the faeces restored after a year. Crural.) *Ed.* med. ess. I. 242. Gimbernat on crural hernia. 8. Lond. 1795. A. Monro on crural hernia. 8. Ed. 1803; Dunc. ann. 1803. 112. *Wardrop*, Ed. med. journ. II. 203; *Burns*, 265. Congenita, a complication with a deformitas.) Meckel de morbo hernioso congenito. 8. Berl. 1772. *Makary*, Dunc. med. comm. XVIII. 371; *Wilson*, XX. 334. *Tryer*, Med. facts. VIII. 131. *Baillie's* engr. 87.

1. *Hernia encephalocele.* Belongs rather to deformitas or dystocia. Corvin. in Hall. disp. chir. II. xlvi. Trew Comm. litt. 1738. Ledran obs. chir. 1. Warner obs. 59. Encephalocele, *Sauvages*, I. 217. *Ferrand*, M. Ac. chir. V. 60, 863. *Burrows*, Medicoch. tr. II. 52.

2. *Hernia crystallinocele.* Burghart, Med. Siles. sat. II. iv; Ed. med. ess. V. ii. 958. Noble on ophthalmy.

3. *Hernia gastrocele.* Fabr. Hildan. 915. Amyand, Ph. tr. 1731. Kirschbaum in Hall. disp. chir. III. lxviii, lxix. Lafaye

sur Dionis, 121. Sharp. Gastrocele, *Sauvages*, I. 206. *Pipelet*, M. Ac. chir. IV. 181. A singularly slight case, apparently of this disease, occurred to me at St. George's hospital; the tumour could scarcely be perceived, except in a very oblique light, and disappeared on pressure with a crackling noise, but was reproduced by coughing or straining: it was accompanied by considerable pain and dyspepsia, and was relieved by a bandage. Y.

A. Above the navel.

B. At the navel.

C. At the abdominal ring.

4. *Hernia enterocele.* Littre, M. Ac. Par. 1700. Haller disp. ch. I, III. Bertrandi, M. Ac. chir. II. Morgagni adv. an. III. 8, 9. *Pott*, Phil. trans. 1764. 61; including a calculus. *Louis*, M. Ac. chir. III. 145; *Vacher*, 515; *Ritsch*, IV. 173; intestinal cavity obliterated. Enterocele, *Sauvages*, I. 189; insaccatae, with laceration of the peritonaeum, 199. *Robertson*, Dunc. med. comm. XVI. 312. *Home*, Tr. soc. med. ch. kn. II. 99.

A. Diaphragmatic. Through the diaphragm. *Clarke*, Tr. soc. med. ch. kn. II. 118. *Baillie's* engr. 87.

B. Mesenteric. Within the abdomen, through the mesentery. See colica.

C. Umbilical. At the navel. *Lettsom*, M. Med. soc. Lond. III. 494.

D. Parietal. Through the parietes of the abdomen. Hypogastrocele, Vogel.

E. Lumbar. Through the muscles of the loins.

F. Inguinal: scrotal; labial. At the ring, and descending towards the scrotum or labia. *Lecat,* Phil. trans. 1767. 293; with hydrocele.

1. With a forced opening.

2. Native. The passage never having closed; a deformitas. Hey's surg. obs. Cooper; with a sac.

G. Femoral or crural. Under the inguinal ligament. Merocele, Vogel. *Watson,* Med. commun. II. 102; a cylinder of isinglass tried in a dog.

H. Thyroideal. At the foramen ovale. Enterocele ovalaris, Vogel.

I. Ischiatic. Behind the tuberosity of the ischium. Ischiatocele, Vogel.

K. Vaginal. Into the vagina. Elytrocele. Vogel. Levret polyp. ii.

L. Perinaeal. In the perinaeum.

5. *Hernia epiploocele. Lowis,* Ed. med. ess. I. 290; with atrophy. *Livingston,* Ed. phys. ess. II. 333; scrotal. *Verdier,* M. Ac. chir. III. 67; *Pipelet,* 394, V. 643. Epiplocele, *Sauvages,* I. 201.

A. L. The varieties are nearly the same as in enterocele, with which this species is often complicated.

6. *Hernia hepatocele.* Hepatocele, *Sauvages,* I. 208.

A? Thoracic.

B. Parietal.

C. Umbilical.

7. *Hernia splenocele.* Fabr. Hildan. 999. Spigel. corp. fabr. VIII. xiv. Ruysch adv. dec. 8. ii. 23. Splenocele, *Sauvages,* I. 209.

A. Parietal.

B. Inguinal.

8. *Hernia cystocele.* Salzmann in Hall. disp. ch. III. lxxii. Mery, M. Ac. Par. 1713. Levret pol. Sharp res. *Verdier,* M. Ac. chir. II. 1; *Pipelet,* IV. 181. Cystocele, *Sauvages,* I. 211.

A. Inguinal. Cystocele, Vogel.

B. Parietal.

C. Femoral.

D. Vaginal. Sandifort de hernia vesicae vaginali; Med. comm. Ed. V. 257.

E. Perinaeal.

9. *Hernia hysterocele.* Sennert. med. pr. IV. ii. 2. xvii. Fabr. Hild. 893. Graaf mul. org. viii. Ruysch adv. ii. 23. *Sabatier,* M. Ac. chir. III. 361. Hysterocele, *Sauvages,* I. 209.

A. Parietal.

B. Inguinal.

10. *Hernia oariocele.*

A. Inguinal. Pott.

LXVII. PROLAPSUS.

Protrusion.

The passage of a soft part through the orifice which terminates it.

1. P. *ectrópium.* The turning out of an eyelid.
2. P. *áni.* Of the rectum.
3. P. *vagínae.* Of the vagina.
4. P. *úteri.* Of the uterus.
5. P. *vesícae.* Of the bladder.

PROLAPSUS. *Monro,* Ed. Phys. ess. II. 353. *Whateley,* Med. facts. VIII. 163.

1. *Prolapsus ectropium.* Maitre Jan. St. Yves. Boerh. morb. oc. I. v. Blepharoptosis ectropium, *Sauvages,* I. 178. *Bordenave,* M. Ac. chir. V. 97, 110. Adams on diseases of the eyes. 8. Lond. 1812.

2. *Prolapsus ani.* Plater. prax. II. ii. Levret polyp. *Needham,* Phil. trans. 1755. 238; 57 inches mortified. *Morgagni,* ep. 33, de recti intestini prolapsu. Exania, *Sauvages,* I. 182.

3. *Prolapsus vaginae.* Arant. tum. lix. *Morgagni,* ep. 45, n. 8... Hysteroptosis vaginae prolapsus, *Sauvages,* I. 188. Colpoptosis, Sagar.

4. *Prolapsus uteri.* Mercurial. IV. 21. Ballon. mul. opp. IV. 181; cons. III. 38. Barthol. hist. an. iv. 2. Mauriceau, I. 172,

390. II. passim. Puzos mal. matr. Ruysch obs. 7, 24. Stalpart. i. obs. 69. *Sabatier*, M. Ac. chir. III. 361. *Morgagni*, ep. 45; de uteri descensu; ep. 67, n. 3; from a disease of the ovary. Levret, M. Ac. chir. Journ. med. XL. *Clarke*, Ed. med. journ. II. 420.

A. Hysteroptosis uteri prolapsus, *Sauvages*, I. 185. *Monro*, Ed. med. ess. III. 303. *Hill*, Med. comm. Ed. IV. 88. See prolapsus vesicae.

B. Hysteroptosis uteri inversio, *Sauvages*, I. 187. Generally an obstetrical disease. *Cleghorn*, Med. commun. II. 226. *A. Hunter*, Dunc. ann. 1799. 366; extirpated. *Baillie's* engr. 193.

5. *Prolapsus vesicae.* Salzmann in Hall. disp. chir. III. Verdier, M. Ac. chir. II. Exocyste, *Sauvages*, I. 184. *White*, Med. obs. inq. III. 1; with prolapsus uteri and stone.

LXVIII. INTROSUSCEPTIO.

Introsusception.

The engagement of a constituent part of a cavity in another part of the same cavity.

1. I. *entrópium.* The turning in of an eyelid.
2? I. *intestinális.* Of an intestine; generally indicated by severe colic, sometimes with a discharge of blood.

1. *Introsusceptio entropium.* Blepharoptosis entropium, *Sauvages*, I. 178. Köhler über die trichiasis. 8. Leipz. 1796.

Crampton on entropium. 8. Lond. 1805; Ed. med. journ. IV. 120. See prolapsus ectropium.

2. *Introsusceptio intestinalis.* Seldom to be positively ascertained during life. *Monro,* Ed. phys. ess. II. 353. *Hevin,* M. Ac. chir. IV. 201; gastrotomy. *Dougall,* Dunc. med. comm. IX. 278; a slough. *Lettsom,* Phil. trans. 1786. 305. *J. Hunter,* Tr. soc. med. ch. kn. I. 103; emetics, from theory. *Baillie's* engr. 81. *Langstaff,* Ed. med. journ. III. 262. *T. Blizard,* Medicoch. tr. I. 169. *Baillie,* Tr. soc. M. ch. kn.

A. By descent.

B. By ascent. Less common. *Home,* Tr. soc. med. ch. kn. I. 103.

LXIX. DISTENSIO.

Strain.

A violent tension of a soft part, followed by pain in the part.

1. D. *articuláris.* Of the ligaments about a joint.
2. D. *musculáris.* Of a muscle.

1. *Distensio articularis. Arnot,* Ed. med. ess. V. ii. 652; about the os sacrum; fatty substances voided. Theden? N. bem. II. 195.

2. *Distensio muscularis.*

LXX. CONTUSIO.

Contusion.

A violence done to any part by compression, deranging its internal structure.

1. C. *concussíva.* Without extravasation of fluid.
2. C. *serósa.* With a colourless swelling.
3. C. *sanguin'ea.* With ecchymosis of blood.

CONTUSIO. *Sauvages,* I. 238. *Alexander,* Ed. phys. ess. III. 512; warm bath, in a case of apparent death. Brain.) *Houlston,* Lond. med. journ. V. 292. *Parkinson?* M. Med. soc. Lond. II. 493; lightning. *Andrews,* Med. facts. III. 12. Eye.) *Mudd,* Ed. med. journ. III. 1; tumour, extirpated. Heart.) *Akenside,* Phil. trans. 1763. 353. Liver.) *Gibson,* Ed. med. ess. II. 352; enlarged gall bladder and dropsy. *Geach,* Phil. trans. 1763. 231. Intestines,) Dunc. ann. 1802. 345; a portion discharged.

LXXI. FRACTURA.

Fracture.

The separation of a bone by violence into two or more parts.

1. F. *sim'plex.* Simple division of one or more bones into two parts only.
2. F. *complicáta.* A division of a bone into more than two parts.
3. F. *partiális.* A partial division, or fissure.

4. F. *imperfec'ta.* A depression or bending of a bone into an unnatural form, which it retains.

5. F. *penetrativa.* With penetration, extending into an internal cavity, or to the surface of the body.

FRACTURA. Cull. syn. cl. Hippocr. fract. Gal. comm. Forest. VIII. obs. 1... Amyand, Phil. trans. *Lafaye,* M. Ac. chir. II. 403; a machine for moving patients; *Belloy,* III. 233; a machine. *White,* Phil. trans. 1760. 657; cutting off the ends of the bones; also *Ford,* Lond. med. journ. II. 46. *Morgagni,* ep. 56, de ossium fracturis. Tissot nerv. dis. Fractura, *Sauvages,* I. 239; Fissura, 240. Med. comm. Ed. I. 243. *Home,* Tr. soc. med. ch. kn. I. 233; new joint. *Eaton,* Dunc. med. comm. XIX. 292; Arabian method, employing plaster. *Inglis,* Ed. med. journ. I. 419; cure of unnatural joints; also *Rowland,* Medicoch. tr. II. 47. Skull.) Berengarius de fractura cranii. 12. Leyd. 1715. *Baine,* Ed. med. ess. V. 401; with loss of brain. *Louis,* M. Ac. chir. II. 151; Petit's levator. *Maclagan,* Med. comm. Ed. I. 97. *Carlos* and *Taswell,* Med. obs. inq. V. 82. *Cooke,* Lond. med. journ. IV. 72; *Jones* and *Mynors,* V. 278; Johnson, VI. 354; *Causer,* VII. 152; *Ford,* VIII. 411; *Grimston,* X. 277. *Trye,* Med. commun. II. 144; external table. *Wilkinson,* Lond. med. journ. XI. 370. *Irving,* Dunc. med. comm. XV. 363. *Blount,* M. Med. soc. Lond. III. 605. *Brown,* Dunc. med. comm. XVIII. 342. *Goodsir,* Dunc. ann. 1801. 300. *Hutchinson,* Medicoch. tr. II. 104; occiput; *Creagh,* 307. Jaw.) *Hughes,* Med. facts. III. 36. Rib.) *Leake,* Med. obs. inq. III. 28; with emphysema. *Wilkinson,* Lond. med. journ. XI. 130. Sternum.) *Meek,* Ed. phys. ess. III. 505. *Borthwick,* Med. comm. Ed. V. 185. *Hall,* Lond. med. journ. VIII. 391. Clavicle.) *Brasdor,* M. Ac. chir. V. 575. Brünninghausen über den bruch des schlüsselbeins. 8. Würzb. 1791. Humerus.) *Moscati* and others, M. Ac. chir. IV. 614, 622. Olecranon.) *Haighton,* Dunc. med. comm. IX. 382. Camper de fractura patellae et

olecrani. 4. Hag. 1789. Lower extremities.) Earle on fractures of the lower limbs. 8. Lond. 1807. *Sharp,* Phil. trans. 1767. 80; an instrument for fractured legs. *Sabatier,* M. Ac. chir. IV. 630; neck of the femur. Sheldon on fractures of the patella. 8. Lond. 1789. Brünninghausen über den bruch des schenkelbeinhalses. 8. Würzb. 1789; ties the limb to its fellow, a method claimed by Gescher. See Luxatio.

1. *Fractura simplex.*

A. Transverse. Fractura, Vogel.

B. Oblique, the bones unavoidably riding.

C. Longitudinal. Fissura, Vogel.

D. Epiphysical. The separation of an epiphysis. Diastasis epiphysica, *Sauvages,* I. 232.

2. *Fractura complicata. Brandish,* Lond. med. journ. VII. 135. *Vergan,* X. 80; internal.

3. *Fractura partialis.* Fissura, *Sauvages,* I. 240.

4. *Fractura imperfecta.* Plicatio, Thlasis, Vogel. *Mackie,* Dunc. ann. 1797, 250; a depression of the skull.

5. *Fractura penetrativa.*

A. Internal. A cavity being wounded. *Lassus,* M. Ac. chir. V. 71; the longitudinal sinus.

B. External. The skin being divided. Compound fracture. *Coutaros,* M. Ac. chir. II. 415. *Willison,* Dunc. med. comm. XIV. 310. *Carter,* Med. facts. II. 1; 11, of the skull. Weldon on compound fractures.

LXXII. LACERATIO.

Laceration.

The separation of an internal soft part by violence, into two or more portions.

1. L. *ligamentáris.* Of a ligament.
2. L. *musculáris.* Of a muscle, or its tendon.
3. L. *vasculáris* Of a bloodvessel.
4. L. *viscerális.* Of a viscus.

1. *Laceratio ligamentaris.* Generally accompanies a luxation, and often a strain. Ruptura, *Sauvages,* I. 240; sometimes.

2. *Laceratio muscularis.*

A. Of the muscular fibres. Theden? N. bem. II. 145. *Wathen,* M. Med. soc. Lond. I. 292.

B. Of a tendon. Ruptura, *Sauvages,* I. 240; sometimes. *Monro,* Ed. phys. ess. I. 450. Duchanoy, Journ. méd. XLIII. *Rodbard,* Lond. med. journ. VIII. 304. Wardenburg Verbandarten. 8. Gott. 1793. All of the tendo Achillis.

3. *Laceratio vascularis.* Tulp. II. obs. 40. Morgagni, ep. 26, n. 27, 28. *Doubleday,* Med. obs. inq. V. *Thomas,* Med. comm. Ed. VI. 75. *Pasere,* Lond. med. journ. VI. 141; a vein. In a bone.) Gooch obs. Haematocele.) Forest. chir. VI. 32. *Monro,* Ed. med. ess. V. 328. Morgagni, ep. 43, n. 35. Pott on hydrocele. *Harris,* M. Med. soc. Lond. V. 37.

4. *Laceratio visceralis.* Forest. chir. VI. 6. Morgagni, ep. 54; de ictibus ventris; ep. 69, n. 6. Oesophagus.) *Dryden,* Dunc. med. comm. XIII. 308; vomiting. Heart or its connexions.) Morgagni, ep. 26, 27; ep. 64, n. 15. Ed. phys. ess. III. 257. Thompson, Med. obs. inq. IV; *Wright,* VI. 1. Portal, M. Ac. Par. 1784. See asthenia syncope. Mediastinum.) Morgagni, ep. 26, n. 40. Liver.) *Pearson,* Med. trans. III. 377. *Skeete,* Lond. med. journ. VI. 274. *Blane,* Tr. soc. med. ch. kn. II. 18; apparently spontaneous, with pain and languor. Spleen.) Schenk, II. ii. 104; not always fatal. Tulp. II. xxix. Morgagni, ep. 36, n. 11. Theden N. bem. II. 76. Bladder.) *Montague,* Med. commun. II. 284. *Baillie's* engr. 155? Opening into a cyst. Urethra.) *Wood,* Ed. med. journ. IV. 41. Penis.) *Tryc,* Med. commun. II. 158. Uterus.) Stalpart. I. 66. II. 30. Douglas, Ed. phys. ess. II. xxiv. Morgagni, ep. 48, art. 30..38. Mursinna beob. I. 11. Selle N. beytr. II. 50, 54. See dystocia.

LXXIII. VULNUS.

Wound.

A solution of continuity, effected by violence, and extending to the surface of the body.

1. V. *sim'plex.*	A simple separation of parts.
2. V. *pen'etrans.*	Communicating with a cavity.
3. V. *lacerátum.*	The substance being irregularly torn.
4. V. *contúsum.*	The surrounding substance being bruised.
5. V. *ablatit'ium.*	With loss of substance.
6. V. *venenátum.*	A poisoned wound.

VULNUS. Cull. syn. cxlv. Boerh. 145. *Guthrie,* Dunc. med. comm. XIX. 297; ardent spirits, as preventing suppu-

ration. Perey sur le traitement des plaies. 8. Par. 1792. J. Bell on wounds. 8. 1800. Sutures.) *Ed.* med. ess. I. 242. *Pibrae,* M. Ac. chir. III. 408. Haemorrhages, ligatures, and styptics.) Petit, M. Ac. Par. 1731; natural plugs. *Faget,* Phil. trans. 1752. 560. *Morand,* M. Ac. chir. II. 220; agaric; also *Sharp, Warner, Watson, Gooch, Ford, Thornhill,* Phil. trans. 1754-5. *Belloy,* M. Ac. chir. III. 600. *Kirkland,* Med. obs. inq. II. 278; sponge. *Wilmer,* M. Med. soc. Lond. III. 585; * *Jones* on haemorrhage and ligature. 8. Lond. 1805; Ed. med. journ. II. 224. S. Young on adhesion and suture. 4. Lond. 1808.

1. *Vulnus simplex. White,* Lond. med. journ. IV. 159; axilla. *Tryer,* Med. facts. VIII. 135; in the ear, causing a fungus. Verpinet, Journ. méd. IV; Ed. med. journ. III. 14; arm.

A. An open wound. Vulnus simplex, *Sauvages,* I. 235.

B. A puncture. Punctura simplex, *Sauvages,* I. 236. To this form we may refer wounds retaining foreign substances, or attended by peculiar symptoms of irritation. Morand, M. Ac. chir. III. 62. *Sherwin,* Med. comm. Ed. IV. 210; a nerve punctured in bleeding; *Scott,* 332; cathartics. *Borthwick,* Dunc. med. comm. VII. 353; in the head, with delirium; VIII. 322; a splinter in the temple; *Campbell,* IX. 275; a needle. *Pole,* M. Med. soc. Lond. I. 370; a bodkin left 15 years; III. 373; the puncture of a pin. *Watson,* Med. commun. II. 251; a contraction after bleeding, evidently an affection of the fascia; the biceps divided longitudinally, with great advantage. *Yeats,* Dunc. ann. 1799. 430; locked jaw threatened. *Tryer,* Med. facts. VII. 86; pins, after 60 years. *Bush,* Medicoch. tr. II. 251; a knife blade lodged 30 years in the back. See Entonia, x.

2. *Vulnus penetrans. Huxham,* Phil. trans. 1762. 515. *Simmons,* Med. facts. VIII. 23; *Tryer,* 137. Penetrating a great bloodvessel.) *Petit* jun. M. Ac. chir. I. 237. II. 92; *Ga-*

rengeot, 115. *Ford*, Lond. med. journ. XI. 357; ulnar artery. *Adair*, Med. facts. IV. 21; brachial. *Croxall*, M. Med. soc. Lond. VI. 151; a portion of the fibula removed. A lymphatic.) *Monro*, Ed. med. ess. V. 395. The cavity of the cranium.) *Jamieson*, Ed. med. ess. II. 245; the brain forced by coughing through the cicatrix: the man was sensible, but paralytic, for 5 days, and then died. *Quesnay*, M. Ac. chir. I. 310; *Bertrandi*, III. 484, and *Andouillé*, 506; causing abscess of the liver. *Geach*, Phil. trans. 1763, 231. *Louis*, M. Ac. chir. V. 1; fungi of the dura mater. *Cairncross*, Dunc. med. comm. VIII. 296. Anderson, Ed. tr. Lond. med. journ. XI. 182; chiefly pathological. *French*, M. Med. soc. Lond. III. 604; with loss of brain; *Ledward*, IV. 424; small and fatal. *Ling*, Dunc. med. comm. XVIII. 301; loss of brain; also *Scott*, Dunc. ann. 1796. 358. *Carter*, Med. facts. VI. 91. *Walden*, M. Med. soc. Lond. V. 407; a gun breech remaining 2 months within the cranium. *Barlow*, Dunc. ann. 1802. 382. The throat.) Verdier, M. Ac. chir. III. 78. *Stark*, Med. comm. Ed. IV. 434; trachea. *Ryan*, Dunc. med. comm. VIII. 319; pharynx. *Payne*, Lond. med. journ. VI. 28. *Robertson*, Dunc. med. comm. XVIII. 356; trachea. The chest.) Forest. chir. VI. 4, 47. Ballon. cons. I. 47. Barthol. hist. an. V. 96. Tulp. II. 17. Bont. med. Ind. 254. Stalpart. I. 30. Peters, Phil. trans. *Waugh*, Ed. med. ess. II. 316; causing consumption and hydrothorax. *Belloy*, M. Ac. chir. II. 125; a machine for compressing the intercostal artery. *Hewson*, Med. obs. inq. III. 372. *Pew*, Med. comm. Ed. V. 188; extending to the intestines. *R. Bell*, Dunc. med. comm. XI. 349. *Rigby*, Med. commun. II. 1. *Norris*, M. Med. soc. Lond. III. 440. *Home*, Tr. soc. med. ch. kn. II. 169. *Babington*, Med. records. 59; heart. *Featherton*, Medicoch. tr. II. 58; heart. Abdomen.) *Petit*, *Garengeot*, M. Ac. chir. I. 11; *Verdier*, III. 67. *Morgagni*, ep. 54, de vulneribus abdominis. *Cochrane*, Dunc. med. comm. X. 276. *Kellie*, XVI. 306. *Hague*, Ed. med. journ. V. 129. Stomach.] *Scott*, Med. commun. II. 78. *Burrowes*, Ir. trans. IV. 177; Med. facts. V. 185; a fistulous

opening for 28 years. Intestines.] *Travers*, Phil. trans. 1757. 35; ileum; *Nourse*, 1776. 426. *Desault*, Med. facts. II. 153; a preternatural anus. Travers on injuries of the intestines. 8. Lond. 1812. Kidney.] *Borthwick*, Dunc. ann. 1799. 466. Pelvis.) *Willison*, Ed. med. ess. IV. 294; with a hot iron.

3. *Vulnus laceratum.* Laceratura. Linn. *Benomont*, M. Ac. chir. II. 79; leg torn off at the knee; *Talin*, 80; toe; *Recolin*, 82; thumb; *Morand*, 83. *Home*, Phil. trans. 1758. 617. *Wilmer*, Med. obs. inq. IV. 338; on dividing an aponeurosis. *Carmichael*, Med. comm. Ed. V. 79; arm. *M. Med.* soc. Lond. III. 519; arm with scapula. *Carter*, Med. facts. II. 17; leg and thigh; VI. 66; sal ammoniac in vinegar. *Paterson*, Ed. med. journ. IV. 513; haemorrhage from drawing a tooth.

4. *Vulnus contusum.* Especially gunshot wounds. Vulnus sclopetorum, *Sauvages*, I. 236. *Guerin*, M. Ac. chir. II. 215; chest; *Boucher*, 287; 461, with splinters; *Carnac*, *Bordenave*, and others, 484, 501; *Martinière*, IV. 1; *Vacher*, 22. *Woolcomb*, Phil. trans. 1770. 94. Häberlein von schusswunden. 4. Vienn. 1787. Thomassin on extraction. 8. Strasb. 1788. B. Bell on gunshot wounds. Binney, Amer. Ac. Lond. med. journ. VII. 295; *Jackson*, XI. 363. *Manoury*, Med. facts. I. 176; mouth. * *J. Hunter* on the blood. *Aitken*, Dunc. ann. 1802. 390. Chevalier on gunshot wounds. 12. Lond. 1804. *Burmester*, Ed. med. journ. III. 268; death from punishment.

5. *Vulnus ablatitium.*

A. Excoriatio, *Sauvages*, I. 238.

B. Deeper than the skin, and accidental. *Pibrac*, M. Ac. chir. IV. 63; *Fabre*, 74; *Louis*, 106.

C. Amputatura, *Sauvages*, I. 240. See acology. *Dunc.* med.

comm. XIV. 405; circumcision in a negro child, followed by total adhesion of the vagina. *Scott*, Med. commun. II. 54; extirpation of the male organs. *Irvine*, Dunc. med. comm. XV. 363; penis. *Rait*, XVI. 299. *Greding*, Med. facts. VII. 74; self castration.

6. *Vulnus venenatum.* Mead on poisons. 8. Lond. 1745: is strangely mistaken in denying the perforation of a spider's fang. *Forster*, Phil. trans. 1762. 475; animals; *Gale*, 1765, 244; salt. Logan de venenis; Webster m. pr. III. 214. Serpents.) Geoffroy, M. Ac. Par. 1737; oil. Fontana sur le vénin de la vipère. 4. Flor.; Dunc. med. comm. XII. 74. *Gray*, Phil. trans. 1789. 21; distinction. *Lond.* med. journ. X. 283. *Alexander*, Dunc. med. comm. XIV. 297; eau de luce. *Russell* on Indian serpents. f. Lond. 1796; Dunc. ann. 1797. 1. *Russell* and *Home*, Phil. trans. 1804. 70, 346; structure. *Home*, Phil. trans. 1810. 75; a fatal bite of a rattlesnake. *Ireland*, Medicoch. tr. II. 393; arsenic with a little opium, mint water and lime juice, in enormous doses. Tarantula.) *Cirillo*, Phil. trans. 1770. 233. *Turnbull*, Ed. phys. ess. III. 100. Fenomeno raro. 4. Madr. Vegetables.) *Herissant*, Phil. trans. 1751. 75; lama and ticunas; Fontana, 1780. 163; ticunas. Aepimelaeus de arbore Macassariensi. 4. Leipz.; Dunc. med. comm. XV. 36. Martius über den giftbaum. 8. Erl. 1792; declared by a letter of the emperor of Java to be fabulous. See also Staunton's voyage. Acids?) *More*, Phil. trans. 1760. 936; a peculiar effect on the skin, removed by a soap.

LXXIV. OBSTRUCTIO.

Obstruction.

The partial or total obstruction of a passage by a mechanical obstacle.

1. O. *oesophagéa.* In the oesophagus.
2. O. *ventriculáris.* In the stomach.
3. O. *intestinális.* In the intestines.
4. O. *tracheális.* In the trachea.
5. O. *pel'vica.* In the viscera of the pelvis.

OBSTRUCTIO. Pins swallowed.) *Nicholls,* Phil. trans. 1769. 9. *Bew,* Lond. med. journ. IV. 77; *Mills,* VI. 36; *Boys,* 401.

1. *Obstructio oesophagea. Stedman,* Ed. med. ess. I. 210; a bone. *Hevin,* M. Ac. chir. I. 444. *Cleghorn,* Med. obs. inq. III. 7; a feather; *Ludlow,* 85; a cherry stone, causing a dilatation; *King,* VI. 231; a feather. *Coyte,* Med. trans. III. 30; a crown piece. *Blair,* M. Med. soc. Lond. V. 328; tobacco clyster. *Baillie's* engr. 45; a half crown, and a cherry stone.

2. *Obstructio ventricularis. Wheeler,* M. Med. soc. Lond. I. 322; a knife. *Wilson,* Dunc. ann. 1796. 371; a nail, remaining 15 months, causing hectic. *Wood,* Med. facts. VIII. 139; hairy concretions. *E. Harrison,* M. Med. soc. Lond. V. 132, 138; effect of nitric acid on iron; *J. E. Harrison,* 150; cherry stones, with a scirrhous pylorus. *Home?* Phil. trans. 1807; repletion. *Finchan,* Ed. med. journ. VI. 151.

3. *Obstructio intestinalis.* Forest. XXI. obs. 9. Stalpart. I. 64. Amyand, Derham, Fielding, Holbroke, Sloane, Yonge, Phil. trans. *Cole,* Ed. med. ess. V. 431; plumb stones, discharged by abscess. *Monro,* Ed. phys. ess. II. 345; concretions. Devillaine, Journ. méd. XXXVII; cherry stones, germinating; Barrat, L. *Fynney,* Phil. trans. 1777, 458; abscess. *Swediar,* Lond. med. journ. II. 337; a cherry stone in an abscess; Johnson, VI. 355.: White's cases. Selle N. beytr. II. 109. Walther, thes. obs. n. 12. *Blair,* Med. facts. VI. 111. burnt bread, in the rectum. *E. Harrison,* M. Med. soc. Lond. V. 154; an apple core, causing fistula. *Clarke,* Dunc. ann. 1798. 357; a concretion on fruit stones. *Thomas,* Medicoch. tr. I. 122; dilating the rectum.

4. *Obstructio trachealis. Martin,* Phil. trans. 1765. 39; in the lungs. *Lamartinière* and others, M. Ac. chir. V. 521.. 536. *Borthwick,* Dunc. ann. 1796. 349; a plumb stone; fatal to a child between 4 and 5.

5. *Obstructio pelvica. Morgagni,* ep. 42, n. 18... *Morand,* M. Ac. chir. III. 605. *R. W. Darwin,* M. Med. soc. Lond. III. 513; a catgut bougie, dissolved. *Ford,* Med. facts. I. 96; a catheter. *Thomas,* Medicoch. tr. I. 122; dilating the f. urethra.

LXXV. VENENATIO.

Poison.

The presence of a noxious substance which has been swallowed.

1. V. *inter'na.*

1. *Venenatio interna. Morgagni,* ep. 59, de morbis a veneno inductis. *Gmelin* Geschichte der gifte. 8. Leipz. 1776. *Fontana* sur les poisons. 2 v. 4. Flor. 1781; Lond. med. journ. V. 2. Houlston on poisons. 8. Lond. 1784; Lond. med. journ. V. 374; *Remarks* on poisons, 410. Logan de venenis; Webster med. pr. III. 214. Plenck toxicologia. 8. Vienn. 1785. Lindestolpe. Hahn. *Gervis?* Medicoch. tr. II. 234; pain, sometimes petechiae, and death, from an unknown cause. * *Brodie,* Phil. trans. 1811. 1812. Fish.) *Anderson,* Phil. trans. 1776. 544. *Chisholm,* Ed. med. journ. IV. 393. *Thomas,* M. Med. soc. Lond. V. 94. Vegetables.) Wilmer on poisonous vegetables. 8. Lond.; Lond. med. journ. I. 336. Dölz über pflanzengifte, von Ackermann. 8. Nur. 1792. Dölz circa quaedam venena. 8. Altd. 1793. Stramonium] *Fowler,* Med. comm. Ed. V. 161. *Johnson,* Med. facts. V. 78; seeds. Hyoscyamus.] *Hamilton,* Ed. phys. ess. II. 243. Tobacco.] *Grant?* Dunc. med. comm. XI. 327; employed for scabies; relieved by warm bath. Belladonna.] *Pulteney,* Phil. trans. 1757. 62. *Brumwell,* Med. obs. inq. VI. 222. Oenanthe crocata.] *Watson,* Phil. trans. 1746, 1758. 856. *Houlston,* Lond. med. journ. II. 40; mistaken for bunium; *Pulteney,* V. 192. *Graves,* Med. facts. VII. 308. Andromeda?] *Longmore,* Dunc. ann. 1793.

364; wine useful. Euphorbium.] *Yonge*, Phil. trans. 1760. 662. Manihot.] *Clark*, Med. facts. VII. 289. Manchenille.] *Peyssonel*, Phil. trans. 1758. 772. Yew.] Percival in Med. comm. Ed. VI. 33; fresh leaves a strong poison. Selle N. beytr. I. 1; petechiae, from the berries. Fungi.] Heberden, Med. trans. II. 216. Opium.] *Clark*, Ed. phys. ess. III. 121; a drachm. *Whateley*, Med. obs. inq. VI. 331; breathing maintained by bellows. *Marcet*, Medicoch. tr. I. 77; six ounces of laudanum; cupr. sulf. gr. xv given with advantage. Laurel water.] Penchinati, M. Tur. Lond. med. journ. XI. 160. Spirits.] *Rollo*, Lond. med. journ. VII. 33; fatal. Trotter on drunkenness. 8. Lond. 1804; Ed. med. journ. I. 73. Minerals.) *Wilson*, Ed. phys. ess. I. 499; mill reek, perhaps lead. *Fothergill*, Med. obs. inq. V. 394; water colours. *Houlston*, Med. comm. Ed. VI. 325; alkalis useful. *Bostock*, Ed. med. journ. V. 14. Nitrous gas.] *Mounsey*, Phil. trans. 1757. 19; *Baker*, 1764. 15. Desgranges, Journ. méd.; Ed. med. journ. III. 16. Arsenic.] *Thomson*, Ed. med. ess. IV. 45; violent effects from an insensible quantity. *Yelloly*, Ed. med. journ. V. 389. *Ogle*, Tr. soc. med. ch. kn. II. 63. *Bostock*, Ed. med. journ. V. 166; detection. *Roget*, Medicoch. tr. II. 136; bleeding. Copper.] *Ramsay*, Med. obs. inq. II. 146; vessels. *Simmons*, Med. comm. Ed. IV. 73; sulfate; *Percival*, Med. trans. III. 80; in pickles. *Yeats*, Dunc. ann. 1802. 394; acetate. Lead.] Clutterbuck on lead. 8. Lond. 1794. See colica.

LXXVI. PARASITISMUS.

Vermination.

The presence of worms or insects on or in the body.

1. P. *superficiéi.* On the surface.
2. P. *cutáneus.* In or under the skin.
3. P. *cephal'icus.* In some of the natural cavities about the head.
4. P. *intestinális.* In the alimentary canal.
5. P. *pel'vicus.* In the natural cavities of the viscera of the pelvis.
6. P. *errat'icus.* In a deep seated part, but not in a regular cavity.

PARASITISMUS. Schenk. II. 249. Doeveren. 4. Leyd. 1753. Musgrave. Tussis verminosa, *Sauvages,* I. 654. Lieutaud hist. an. I. 211. Bosch ab Ackermann. 8. Nur. 1779. Haen rat. med. XIV. 139. Lentin obs. I. xxii. Strack de febrium remittentium natura. Jördens Entomologie und helminthologie des menschlichen körpers. 4. Hof. 1801. Brera Vermi. Cremon. 1802.

1. *Parasitismus superficiei.* Murray de vermibus in lepra obviis. 12. Gott. 1769.

A. Pediculus vulgaris. Margin notched. Pruritus pedicularis, *Sauvages,* II. 43. Phthiriasis pedicularis, 602.

B. Pediculus pubis. Margin entire. Phthiriasis inguinalis, *Sauvages,* II. 603.

C. Pulex irritans.

D. Acarus reduvius. Sheep tick.

E. Acarus domesticus. Observed in the head, in considerable numbers. Y. Willan, in speaking of the prurigo senilis, mentions an insect apparently resembling this, but which he considers as approaching to the genus pulex.

F. Acarus scabiei.

2. *Parasitismus cutaneus.*

A. Pulex penetrans. Chigo or chigger. Malis americana, *Sauvages*, II. 551.

B. Acarus autumnalis. Harvest bug. Psydracia ab acaris, *Sauvages*, I. 135.

C. Acarus scabiei. Generally found in a fold of the cuticle near a pustule. Morgagni, ep. 55, n. 4. Scabies vermicularis, *Sauvages*, II. 578. *Wichmann*, Lond. med. journ. IX. 28.

D ? Acarus phthiriacus. Said to harbour under the skin; but not correctly described. Forest. VIII. obs. 14..16? Phthiriasis interna, *Sauvages*, II. 603.

E? Cantharis. Maliasmus. Ploucq. nosol.

3. *Parasitismus cephalicus.* Maloet, M. Ac. P. 1733; a scolopendra in the frontal sinus. Journ. méd. 1758. 145; ear. *Morgagni*, ep. 1; hemicrania; ep. 14, n. 7; larvae in the ear. Hemicrania ab insectis, *Sauvages*, II. 57; Otalgia verminosa, 72; ab insectis, 73; not bred in the body. *Med.* comm. Ed. II. 312; a scolopendra in the nostrils. *Kilgour*, Dunc. med. comm. VIII.

75; larvae in the nose, destroyed by infusion of tobacco. *Heysham*, Med. commun. I. 430; from the antrum, probably the larva of an oestrus.

4. *Parasitismus intestinalis.* Hippocr. Foes. 512. Forest. XXI. 26, 37. Ballon. cons. I. 30, 119. III. 111. Barthol. hist. an. I. 90; Hofm. suppl. II. 2. *Douglas*, Ed. med. ess. I. 222; discharged from an ulcer. Werlhof opp. III. 734. *Nicholls*, Phil. trans. 1755. 246. *Oram* and *Gaze*, Phil. trans. 1758. 518; fits, cured by white lead. Morgagni, ep. 47, n. 12. Linn. amoen. acad. II. Act. Helv. I. 22. *Limbourg*, Phil. trans. 1766. 126. Palmer de vermibus intestinorum. 8. Ed. 1766; Smellie thes. III. 34. Armstrong. Swieten, IV. 699. Eclampsia verminosa, *Sauvages*, I. 570. Lentin mem. 16. Haen de vermibus intestinorum. 8. Vienn. 1780; Lond. med. journ. IV. 49; Meyer. Broughton de vermibus intestinorum; Webster med. pr. III. 199. Bloch von den eingeweidewürmern. 4. Berl. 1782; Lond. med. journ. VI. 76. Göze Eingeweidewürmer. 4. Blankenb. 1782. Werner intestina. 8. Leipz. 1783-8. Balding. kr. arm. 276. Stack med. cas. Starke clin. inst. 21. Stoll rat. med. VI. 7; prael. I. 252. II. 417. Schrank verzeichniss der eingeweidewürmern. 8. Mun. 1788. Gregory conspectus. *Hooper*, M. Med. soc. Lond. V. 224. *Baillie's* engr. 89; chiefly from Werner. Anthelminthics.) *Fowler*, Dunc. med. comm. VIII. 336; their effects on earthworms. Indian pink, Anthelmia.] *Lining*, Ed. phys. ess. I. 386; *Garden*, III. 145. *Clark*, Med. facts. VII. 289. Cowhage, Dolichos.] *Cochrane*, Med. comm. Ed. II. 82; *Kerr*, 202. Chamberlaine on cowitch. 8. Lond. 1784; Lond. med. journ. VI. 313. *Chamberlaine*, M. Med. soc. Lond. III. 562. Wild cabbage, Geoffroea.] *Duguid*, Ed. phys. ess. II. 264. *Med.* comm. Ed. II. 96; *Anderson*, IV. 84. *Wright*, Phil. trans. 1777. 507. Angeline tree.] *Grieve*, Dunc. med. comm. IX. 365. Corrosive sublimate.] *Gardiner*, and Clerk, Ed. phys. ess. III .380.

A. Ascaris vermicularis. Thread worm. Del. amoen. med. I.

341. *Turner*, Med. obs. inq. II. 307; tobacco smoke; a good case. *Heberden*, Med. trans. I. 45, 54; cinnabar and rhubarb, half a drachm of each; common salt. Pudendagra ab ascaridibus, *Sauvages*, II. 149; Tenesmus ab ascaridibus, 363. *Young* de vir. conservatr.

B. Ascaris lumbricalis. Round worm. *Maclaggan*, Med. comm. Ed. II. 80; discharged by a sore. Rau de ascaride lumbricoide. 4. Gott. 1779. *Wier*, Lond. med. journ. IV. 393; *Coleman*, VII. 251; by a hernial sore; *R. Hamilton*, 372; by the navel. *Church*, M. Med. soc. Lond. II. 63; *Warner*, III. 591.

C. Trichocephalus hominis. Hair worm? Roederer morb. mucos. 41.

D. Tape worm. Horst. II. 537. Tulp. II. xlii. Bagliv. pr. m. I. ix. epp. 687. Tyson, Phil. trans. abr. III. 121. Wepfer obs. 234. *Alston*, Ed. med. ess. V. 89; tin. *Morgagni*, ep. 34, n. 37. Swieten, IV. 703. Haen rat. med. VIII. 256. IX. 231, 304. XII. 210. Batsch Bandwurm. 8. Hall. 1786. *Dunc.* med. comm. XVI. 369; a taenia from a dog lived in boiling water. Weikard, verm. schr. I. 71. *Malden*, M. Med. soc. Lond. IV. 419; two drachms of oil of turpentine, taken accidentally. *White*, Dunc. ann. 1797. 292; vomited. *Buchanan*, Ed. med. journ. III. 22; *Oil* of turpentine, VI. 253; *Laird*, 376; four ounces have been given. *Fenwick*, Medicoch. tr. II. 24; oil of turpentine.

1. Taenia solium. Apertures single, marginal.

2. T. vulgaris. Two apertures at one margin.

3. T. lata. Aperture central.

4. T. dentata. An aperture at each edge.

E? Hydatids. Taenia visceralis? Barthol. ep. I. 491, 503. Scott, Med. comm. Ed. V. 196. Balding. N. mag. IV. 556. X. 345.

F? Leeches. Haematemesis ab hirudine, *Sauvages*, II. 298. Galen loc. aff. Schenk. 227. River. cent. 4. obs. 26.

G. Larvae of insects. *Calderwood*, Med. comm. Ed. IX. 223. *White* and *Church*, M. Med. soc. Lond. II. 67; pupa of the musca cibaria; mention the phryganea grandis, and the phalaena pinguinalis. *Crumpe*, Ir. trans. VI. 57; Med. facts. VIII. 229; from the stomach.

†H. Imaginary. Paisley, Ed. med. ess. II. 333; Bond, Med. obs. inq. I. 67; coagula formed in the colon and rectum, filled with blood, and mistaken for worms. Y.

5. *Parasitismus pelvicus.*

A. In the urinary passages. Bonet. Med. sept. xxxi. Tulp. II. 49. 52. Journ. méd. 1758. 245. Morgagni, ep. 42, n. 6, 7. Ischuria nephrelminthica, *Sauvages*, II. 524; urethrelminthica, 535.

1. Hydatids. Taenia visceralis? *Russel*, Med. obs. inq. III. 146. *Blackburne*, Lond. med. journ. I. 125. *Fynney*, M. Med. soc. Lond. II. 516.

2. Mesostenius? *Lawrence*, Medicoch. tr. II. 382; Some appearing like small round worms, others contracted and almost jointed in the middle, having their section nearly square, and their internal substance apparently homogeneous. Should future observations confirm this description, the worm might be called Mesostenius urethralis, and characterized, Vermis medio angustior, utrinque acuminatus, subtus hinc carinatus,

inde serie duplici tuberculorum instructus, visceribus nullis conspicuis.

† 3. Imaginary? *Barry*, Ed. med. ess. V. ii. 757; red, perhaps a coagulum; with haematuria.

B. In the uterus.

1. Larvae. *Cookson*, Med. comm. Ed. III. 86.

2. Hydatids. Taenia visceralis? Wilmer, Lond. med. journ. VIII. 382; *Home*, Tr. soc. med. ch. kn. II. 300. *Baillie's* engr. 203.

6. *Parasitismus erraticus.*

A. Filaria medinensis. Forest. XX. obs. 12. Kaempf. fasc. 3. obs. 4. Velsch de vena medinensi. *Hutcheson* and *Forbes*, Ed. med. ess. V. ii. 784. Hillary's Barb. 377, 380. Malis dracunculus, Sauvages, II. 553. *Drummond*, Dunc. med. comm. XVIII. 295. *Bruce*, Ed. med. journ. II. 145; *Paton*, 151; *Dubois* and *Anderson*, 300.

B. Taenia visceralis. Hydatids. Most common in the liver. Can scarcely be considered as of the same genus with the true taeniae, notwithstanding the occasional resemblance of their heads. *Aret.* chron. II. i. Horst. opp. II. 291, 513. Barthol. hist. an. VI. 84. Tulp. II. 34. Ruysch. obs. 27, 33, 46. Tyson, Phil. trans. n. 475. p. 305. Lecat, Graham, Phil. trans. Guattani, M. Ac. Par. *Morgagni*, ep. 38, n. 35... Evesque, Journ. méd. XLIX. Haen rat. med. II. 282. Hill, Dunc. med. comm. VII. 310; Paxton, VIII. 23; X. 151. Grund, Meier, Balding. N. mag. IV. 493. Pallas misc. zool. 174. Bloch, 24. Goeze, 196, 249. Werner, 68. Fischer taenia hydatigena. 8. Leipz. 1789. *Home's* lecture. 1790, Phil. trans. 1795. 202.

1. In the brain. See paralysis. *Moorcroft*, Med. facts. III. 17; in a cow.

2. Coughed up, generally with bile. *Collet* and *Baker*, Med. trans. II. 486. *Doubleday*, Med. obs. inq. V. 143. *Hill*, Med. comm. Ed. II. 30; with bile; a spontaneous diarrhoea useful. *Powell*, Lond. med. journ. VI. 139; *Johnson*, 293. *Yeats*, Dunc. ann. 1802. 405; yellow. See hepatitis.

3. In the liver. *Lind*, Lond. med. journ. X. 76; discharged during a course of mercury. *Baillie's* engr. 107.

4. In the kidney. *Lettsom*, M. Med. soc. Lond. II. 32. *Baillie's* engr. 133.

5. About the abdomen. *Morgagni*. *Hill*, Med. comm. Ed. II. 30.

6. Under the skin? *Bisset*, Dunc. med. comm. IX. 244; lymphatic encysted tumours.

C. Taenia cellulosae. Wern. cont. 2. p. 2. Goeze über die finnen. Hall. 1784.

D? Taenia simplicissima? So indistinct as to leave its animal nature uncertain.

E. Furia infernalis. Linn. amoen. ac. III. 322. Solenandr. N. Act. Ups. I. Pennant's Zoology.

F. Scolopendra? *Graham*, Dunc. med. comm. XII. 366; under the skin.

LXXVII. DYSTOCIA.

Obstetrical disease.

Disease or difficulty attendant on pregnancy and childbearing.

1. D. *dyscyésis.*	Diseased pregnancy.
2. D. *abortíva.*	Abortion.
3. D. *perver'sa.*	Preternatural presentation.
4. D. *amor'phica.*	From deformity in the pelvis.
5. D. *geminórum.*	From a plurality of children.
6. D. *protrac'ta.*	The labour being continued beyond 24 hours.
7. D. *retentíva.*	The placenta being retained several hours after the birth.
8. D. *haemorrhag'ica.*	Flooding during or after labour.
9. D. *syncopális.*	Fainting during or after labour.
10. D. *convulsíva.*	Convulsions during or after labour.
11. D. *inversória.*	Inversion of the uterus after labour.
12. D. *laceratória.*	Laceration during labour.
13. D. *inflammatória.*	Local inflammation in consequence of labour.
14? D. *febrílis.*	Fever consequent on parturition.
15. D. *maníaca.*	Mania consequent on parturition.

Dystocia. Aët. IV. iv. 22. Arant. obs. an. xxxix. Forest. XXVIII. 68. Bonet. sep. III. xxxviii. App. obs. 8. Mauriceau, II. Portal Pratique des accouchemens. 4. Par. 1682. Manningham artis obstetriciae compendium. 4. Hall. 1746. Raulin. Levret. Smellie's practice of midwifery. f. 1754. *Morgagni*, ep. 48, de partu infelici. Roederer clementa artis obstetriciae, a Wrisberg. 8. Gott. 1766. Dystocia, *Sauvages*, II. 117. Leroy Pratique des accouchemens. 8. Par. 1776; with history and literature. Gib-

bons de puerperarum morbis; Webster med. pr. III. 251. C. White on the management of pregnant and lying in women. 8. Lond.; Med. comm. Ed. I. 135. Hamilton's midwifery. 8. Ed. 1781; Med. comm. Ed. IV. 61; Lond. med. journ. I. 145. *Denman's* introduction. 8. Lond. 1782. 4. 1801. 2 v. 8. 1805. 4. 1806. Germ. by Römer. 8. Zur. 1791. Denman on natural labours. 8. Lond. 1786; On difficult labours; 3 parts. On preternatural labours. Denman's aphorisms. 12. 1793. Herbiniaux Accouchemens laborieux. 2 v. 8. Bruss. 1782; Lond. med. journ. III. 161; a charlatan. Osborn on laborious parturition. 8. Lond. 1783; Lond. med. journ. IV. 135. Osborn's essays. 8. Lond. 1796. Dease's observations. 8. Dubl. 1783. Osiander über die entbindungskunst. 8. Tüb. 1787. Hamilton's select cases. 8. Ed. 1795; Dunc. ann. 1796. 266; Engravings, 1796; Outlines, 1803. Siebold de cubilibus sedilibusque. 4. Gott. 1790. Baudelocque. Germ. by Meckel. 2 v. 8. Leipz. 1791-4; "perhaps the best work, but too long." Rothe. Engl. by Heath, 3 v. 8. 1790. Sommer Axe des weiblichen bechens. 8. Brunsw. 1791. Römer Annalen der geburtshülfe. 8. Winterth. 1793.. "Exellent collections." Rothe. Saxtorph examen armamentarii lucinae. 8. Copenh. 1795. Plenck Anfangsgründe der geburtshülfe. 8. Vienn. 1798. Osiander Lehrbuch der hebammenkunst. 8. Gott. 1796; for midwives. Unzer und Uden Diätetik der schwangern und säugenden. 8. Brunsw. 1796. Fischer über die Englische geburtshülfe. 8. Gott. 1797. Vogler Erfahrungen über geburt. 8. Marb. 1797. Stein Anleitung zur geburtshülfe. 2 v. 8. Marb. 1797; "a work which every one must possess." Rothe. Knebel Grundriss zu einer zeichenlehre. 8. Bresl. 1798. *London* practice of midwifery. 12. Lond. 1803, 1807; stolen from Clarke's lectures. Clark on pregnancy and labour. 1806. *J. Burns's* principles of midwifery. 8. Lond. 1809; Ed. med. journ. VI. 99. (Lamotte, Deventer, Aitken, Jacobs, Hinze, Hofer, Mohrenheim, Hagen, Starke, Saxtorph, Josephi, Jördens, Sue, Weydlich, Hensler, Ficker, plattdeutsch, Mohr, Ehrhardt, Steidele, Camper, Zeller, Boes, Schweikhard, Schlegel, Wigand, Astruc, Müller, Busch, Röderer.)

1. *Dystocia dyscyesis.* Mursinna krankheiten der schwangern. 2 v. 8. Berl. 1792.

A. Chiefly mechanical.

1. Dyspnoica.

2. Dysurica. *Hay,* Med. obs. inq. IV. 58; bladder ruptured.

3. Obstipatoria.

4. Haemorrhoidalis.

5. Varicosa.

6. Hydropica. *Laurie,* Ed. med. ess. V. ii. 642; ascites.

7. Paralytica.

8. Ectopica. Hysteroloxia, *Sauvages,* I. 220; especially retroversion, H. posterior, 221. Dystocia ab hysteroloxia, II. 119. *Lynn* and *Hunter,* Med. obs. inq. IV. 388, 408. *Hooper,* V. 104; *Bird,* 110; *Hooper,* 378; *Garthshore,* 388. *Evans,* Med. comm. Ed. VI. 215; *Swan,* 217. *Cheston,* Med. commun. II. 6; bladder punctured. *Croft,* Lond. med. journ. XI. 380. Melitsch von der umbeugung der gebährmutter. 8. Prague, 1792. *White,* Dunc. med. comm. XX. 254. *Bell,* Med. facts. VIII. 32. *Ross,* Dunc. ann. 1799. 284.

9. Extrauterina. Bonet. sep. III. xxi. 57? Horst. opp. I. 131. II. 521. Barthol. hist. an. VI. 92; ep. III. 250. Tulp. IV. xl. Bayle, Bromfeild, Copping, Middleton, Giffar, Morley, Simon, Winthrop, Phil. trans. *Gemmil,* Ed. med. ess. V. 336; ovarium; *King,* 441. Chamoux,

Journ. méd. XXXIX; Laugier, XLI. Thibault, Rec. pér. I. 368. *Debenham,* Phil. trans. 1751. 92. *Young?* Ed. phys. ess. II. 273; ovarium, bones. Morgagni, ep. 48, n. 42. *Bard,* Med. obs. inq. II. 369; *Kelly,* III. 44; *Hay,* 341. Haller, M. Ac. Par. 1773. *T. Bell,* Med. comm. Ed. II. 72; Percival, 77; *Smith,* V. 314. Walther Geschichte. 4. Berl. 1778; 22 years. *Fitzgerald?* Dunc. med. comm. VIII. 329; perhaps a laceration. Gerson Beobachtung. 8. Hamb. 1784. Lent. obs. II. 15. *Cammel,* Lond. med. journ. V. 396; *Moyle,* VI. 52; followed by a hernia. *Bland,* Dunc. med. comm. XI. 334. *Jacob,* Lond. med. journ. VIII. 147; *Underwood,* 320. *Baynham,* Med. facts. I. 73. *Turnbull,* M. Med. soc. Lond. III. 176; with many references. Gmelin, Bald. N. mag. IV. 17. Krohn foetus extra uterum historia. f. Lond. 1791. Deutsch de graviditate abdominali. 4. Hall. 1792. Thom, Josephi, Weinknecht, *Maclarty,* Dunc. med. comm. XVII. 481; by ulceration. *Clarke,* Tr. soc. med. ch. kn. I. 215; tube, fatal haemorrhage at 6 weeks. *Gordon,* Dunc. med. comm. XVIII. 323. *Meaze,* M. Med. soc. Lond. IV. 342. *Wilson,* Dunc. ann. 1797. 317; 1799. 401; *Forrester,* 1798. 379; ovarium. *Clarke,* Tr. soc. med. ch. kn. II. 1; tube; *Mainwaring,* 287. *Goodsir,* Dunc. ann. 1802. 412. *Grivel,* Ed. med. journ. II. 19; at 83. *A. Fothergill,* M. Med. soc. Lond. VI. 107. *Blizard,* Ed. trans. V. 18. *Anderson?* Ed. med. journ. II. 180; teeth and hairs in the ovarium; *Coley,* VI. 50; ovarium, scirrhous.

B. Principally from irritation.

1. Emetica. *Watson,* Med. obs. inq. III. 335; with acidity; magnesia. Körber de nausea et vomitu gravidarum. 4. Gott. 1787. *W. Vaughan,* M. Med. soc. Lond. II. 125; total abstinence. See dyspepsia.

2. Convulsiva. *Bisset?* M. Med. soc. Lond. III. 58; an irritable sympathetic tumour on the legs, during pregnancy. *J. Hamilton,* Dunc. ann. 1800. 313; against opium.

3. Syncopalis.

4. Diarrhoica.

5. Dyspeptica. Swieten, III. 95; jaundice.

6. Mastalgica.

7. Seriflua. *Alexander,* Med. comm. Ed. III. 187; beginning at 6 months, the membranes remaining entire; abortion was threatened 10 days before the birth.

† 8. Haemorrhagica. See D. abortiva.

2. *Dystocia abortiva.* Galen. cup. Sol. 51. Aët. IV. iv. 18. Forest. XXVIII. 67. Plater. obs. III. 698. Horst. V. n. 24. Ballon. cons. I. 40. II. 35. III. 102. Barth. hist. an. III. 1. Schenk, IV. 149. Mauriceau, I. 186. II. 26, 316, 491. Ed. med. ess. II. xi. *Morgagni,* ep. 48, de abortu, n. 17.. Latham, Phil. tr. 1770. 453; a twin which had died early. Zimmerm. erf. II. Stoll rat. med. V. 460; prael. II. 388. Waite de abortu; Webster med. pr. III. 241. Kausch erfahr. *Lettsom,* M. Med. soc. Lond. V. 18. Burns on abortion. 8. Lond. 1806; Ed. med. journ. II. 366. Tracts on the trial of Angus. 8. Liv. 1808; Ed. med. journ. V. 220. Trial on a case of abortion. 8. Ipsw. 1808; Ed. med. journ. VI. 244. Among cattle.) Tessier, M. Soc. R. méd. V. 249; contagious. Infanticide.) *W. Hunter,* Med. obs. inq. VI. 266; a child that has breathed often dies. Ehrhardt de asphyxia neonatorum. 8. Mein. 1789. Roose über das ersticken neugebohrner kinder. 8. Brunsw. 1794.

A. Incipient. Haemorrhage during pregnancy, *Puzos*, M. Ac. chir. I. 358. *Blackburne*, Lond. med. journ. II. 122. *Douglas*, Med. commun. I. 107; placenta misplaced. *Gordon*, Dunc. med. comm. XVIII. 317; in the 9th month. *Bishoprick*, XX. 359. *Chapman*, Dunc. ann. 1799. 308; the placenta expelled 4 hours before the birth. J. Burns on uterine haemorrhage. 8. Lond. 1807; Ed. med. journ. III. 347. *Robertson*, Ed. med. journ. V. 178; at 7 months.

3. *Dystocia perversa*. *Gardner*, Med. comm. Ed. V. 306.

A. Faciei. *Clarke*, Tr. soc. med. ch. kn. II. 229; alters the position.

B. Pedis.

C. Natium. Spangenberg de partu clunibus praeviis. 4. Gott. 1780.

D. Transversalis.

E. Brachialis. *Denman*, Lond. med. journ. V. 64, 301; spontaneous turning. *Simmons*, Med. facts. I. 76. *Rait*, Dunc. med. comm. XIX. 319; protracted.

F. Funis, prolapsi.

4. *Dystocia amorphica*. Barthol. hist. an. I. 94. *Morgagni*, ep. 48, n. 39. *Clarke*, Lond. med. journ. VII. 40. Denman's plate of the pelvis. Creve von den krankheiten des weiblichen bechens. 4. Berl. 1795. *Ed.* med. journ. IV. 516; a woman 25 inches high had a child 21½. Tumour.) *Gemmil*, Ed. med. ess. V. 438. Wirth, Balding. N. mag. XII. 61. *Drew*, Ed. med. journ. I. 20; extracted. *Park*, Medicoch. tr. II. 296. Child too large.) Bonet. sep. III. xxxviii. App. obs. 2. Galetti, Journ. méd. XLIX. 233; dropsical. Camper, M. Ac. chir. V.

729; long head. Buxtorf, Act. Helv. VIII. x; Mursinna beob. I. 151; Zeller, Bald. N. mag. VIII. 179; hydrocephalus. Abstinence.) *Lucas,* M. Med. soc. II. 406. Premature labour.) *Barlow,* Med. facts. VIII. 185. Instruments.) Steidele Lehrbuch. 8. Vienn. 1785. Hinze Uebersicht. 8. Liegn. 1794. Saxtorph arm. Lucin. Forceps.] *Butter,* Ed. med. ess. III. 320. Sutthof. Danz forcipis historia. 4. Giess. 1790. Klees Geburtszange. 8. Frankf. 1794. Schweighäuser Anweisung. 8. Leipz. 1796. Mulder historia forcipum et vectium. 8. Leyd. 1794. Lever.] *Camper,* M. Ac. chir. V. 729, 887. *Bland,* Med. comm. II. 397; elaborate. *Hamilton,* Dunc. med. comm. XVIII. 400; Lowder's, rather an extractor. Crotchet.] M. Ac. chir. IV. H. 103; double headed. Ring scalpel.] *Sims,* Ed. med. ess. V. 445. Caesarian operation.) *Stewart,* Ed. med. ess. V. 434; and *King,* 441; with a razor. *Simon,* M. Ac. chir. I. 623. II. 308. *Cooper,* Med. obs. inq. IV. 261; *Thomson,* 272; *Cooper,* V. 217. *Crawley,* Lond. med. journ. VI. 366. VII. 61; performed by the woman. Fritze in Schmucker, III; Lond. med. journ. XI. 146. *Barlow,* Med. records, 154; successful, the peritonaeum not stitched; *Haighton,* 242. *Wood,* M. Med. soc. Lond. V. 463. *Chisholm,* Ed. med. journ. IV. 178; Martinique; in the linea alba. Section of the symphysis.) Leroy sur la section de la symphyse. 8. Par. 1778; Med. comm. Ed. V. 39; *V.* 211. Bentley de sectione synchondroseos. 4. Strasb.; Dunc. med. comm. VII. 189; objections. Walter de dissectione synchondroseos. 4. Berl. 1782; Lond. med. journ. III. 366. Michel de synchondrotomia. 8. Amst. 1783; Lond. med. journ. IV. 374. *Myers,* Dunc. med. comm. X. 281; objections. *Damen,* Lond. med. journ. VIII. 34; *Welchman,* XI. 46.

5. *Dystocia geminorum.* Bonet. sep. III. xxxviii. 6. *Fell,* Ed. phys. ess. II. 342; with preternatural collection of water. *Aikin,* Med. comm. Ed. II. 300; a tumour resembling a second child.

6. *Dystocia protracta. Paisley,* Ed. med. ess. IV. 444;

with extravasation. Mangin, Journ. méd. XLI. 174, Jalouset, XLIII. 366, uterus callous. Bordenave, M. Ac. Par. 1777; Dunc. med. comm. X. 102; Caesarian operation after death. *Blackburne*, Lond. med. journ. VIII. 60; 11 months, uterus destroyed. *Clarke*, 182; fatal compression of the funis. *Cathrall*, Dunc. ann. 1798. 331; incision into the vagina. *Caldwell*, Ed. med. journ. II. 22; ossified.

7. *Dystocia retentiva.* *Recolin*, M. Ac. chir. III. 202; injecting warm water; *Levret*, 216. Aepli zurücklassung der nachgeburt. 8. Zur. 1776. Journ. der erf. 6. 22. 3. 23. 74. *Turnbull*, M. Med. soc. Lond. III. 213.

8. *Dystocia haemorrhagica.* Mauriceau, II. 386. Denman. *Spier*, Med. comm. Ed. VI. 443; from an encysted tumour. Saxtorph, Act. Havn.; Lond. med. journ. I. 59. *Fitzpatrick*, Dunc. med. comm. IX. 227; cold water. Stoll prael. II. 399. Leroux. * *Rigby* on haemorrhage. 8. 1785, 1811. Burns on haemorrhage. 8. 1807. See D. abortiva.

9. *Dystocia syncopalis.*

10. *Dystocia convulsiva.* *Bland*, Lond. med. journ. II. 328. *Fynney*, Dunc. med. comm. IX. 380.

11. *Dystocia inversoria.* *Crawley*, Lond. med. journ. VI. 366. *Shaw*, M. Med. soc. Lond. I. 213; a partial prolapsus, round the head. Wrisberg de uteri resectione. 4. Gott. 1787. *Hamilton*, Dunc. med. comm. XVI. 315; *White*, XX. 247. *Brown*, Dunc. ann. 1797. 277; reduced. *Brown*, M. Med. soc. Lond. V. 202; the placenta attached, returned with the uterus and discharged after 5 days. *Albers*, Dunc. ann. 1800. 390. *Dyson*, M. Med. soc. Lond. VI. 118.

12. *Dystocia laceratoria.* Bonet. sep. III. xxviii. 5, 7.

Monro, Ed. phys. ess. II. 339, and *Farquharson*, Dunc. med. comm. XIII. 344; uterus and abdomen. Steidele de rupto utero. 8. Vienn. 1774; Med. comm. Ed. VI. 123. Douglas on a ruptured uterus. 8. Lond. 1785; Lond. med. journ. VI. 92. *Hooper*, M. Med. soc. Lond. II. 118; *Wilkinson*, III. 480; *Kite*, IV. 253. *Cathrall*, Med. facts. VIII. 146; *Jo. Sims*, 150. *Ross*, Dunc. ann. 1798. 377. *Haden*, Tr. soc. med. ch. kn. II. 184. Denman on rupture of the uterus. 8. Lond. 1810; Ed. med. journ. VI. 350.

A. Uteri.

B. Vesicae.

C. Perinaei.

13. *Dystocia inflammatoria. Simson*, Ed. med. ess. III. 315; the os uteri had adhered, and was divided, but the woman died. *Maitland*, Med. comm. Ed. VI. 85; swelled labium. *Macbride*, Med. obs. inq. V. 89; labia swoln from lacerated vessels. *Reeve*, Lond. med. journ. IX. 119; sphacelus of the perinaeum.

14. *Dystocia febrilis.*

A. Inflammatory and transient. Weed. Sometimes accompanying a retention of the lochial discharge. Mauriceau, I. 416; 417, with diarrhoea. Stoll prael. II. 401. See ecphyma oedematicum, xlviii.

2. Milk fever. With distension of the breasts.

B. Resembling typhus. Literature, Nicolai pathol. III. §. 396; forts. II. 711. Strother on fevers. Lond. 1718. Hunter, Ed. med. ess. IV. *Taithwell*, Ed. phys. ess. II. 417. Den-

man on puerperal fever. Lond. 1768. Hulme on childbed fever. 8. Lond. 1772. Med. comm. Ed. I. 1. Leake on childbed fever; Med. comm. Ed. I. 227. White on the management of pregnancy and labour. Fauke. Vienn. 1772. Kirkland on childbed fevers. 8. Lond.; Med. comm. Ed. III. 124. Butter on puerperal fevers. Lond. 1775. Manning on female diseases. Lond. 1775. *Carmichael*, Med. comm. Ed. IV. 45; suppuration. Millar dis. Gr. Br. III. iii. Aikin on hosp. *E. Johnstone*, Dunc. med. comm. VII. 276. Slaughter de febre puerperali; Webster med. pr. III. 264. Stoll rat. med. II. 57. Home clin. exp. 75. Gruner et Fuchs. Jen. 1781. Selle med. clin.; beitr. I. II. 45, 111. Burser. inst. I. Doublet, Doulcet and others. Journ. méd.; and A. Fothergill, Lond. med. journ. III. 411; an emetic. Delaroche sur la fievre puerperale, Par. 1783. *Jo. Clarke*, Dunc. med. comm. XV. 299. Sachtleben über das kindbettfieber. 8. Leipz. 1793. (Mauriceau, Smellie, Levret, Prizos, Deleurye.)

15. *Dystocia maniaca.*

LXXVIII. DYSODONTIASIS.

Difficult dentition.

Irritation from teething.

1. D. *lactan'tium.* Attending the appearance of the milk teeth.
2. D. *puerílis.* With the adult teeth.
3. D. *adultórum.* In cutting the wise teeth.

DYSODONTIASIS. Forest. XIV. 8. Mauriceau. Wedel de dentitione. Jen. 1678. Armstrong. Stoll prael. I. 247. II. 414. Berdmore on the teeth. Hunter on the teeth.

1. *Dysodontiasis lactantium.* Raulin on the care of children. H. Smith on nursing. 8. 1792. Buchan's advice to mothers. 1803. Herdman on the management of infants. 1807.

2. *Dysodontiasis puerilis.* Schenk. I. 413; double row. *Thomson*, Ed. med. ess. V. 222; supernumerary. *Symmonds*, Med. obs. inq. III. 178; three growths. *Whateley*, Med. facts. VIII. 173; supernumerary, with tumour and abscess.

3. *Dysodontiasis adultorum.* Tulp. obs. I. xxxvi; fatal.

LXXIX. DEFORMITAS.

Deformity.

Original malformation, independent of constitutional disease, and which may possibly have originated from a mechanical cause.

1.	D. *defectiva.*	A part being deficient or divided.
2.	D. *excessiva.*	A part being superfluous or adherent.
3.	D. *distorsiva.*	A part being distorted.
4.	D. *translatit'ia.*	A part being misplaced.
5.	D. *colóris.*	An original depravation of colour only.
6.	D. *unitórum.*	Two individuals being united or confounded.

DEFORMITAS. Baster, Ferris, Parsons, Superville, Phil. trans. *Burton*, Ed. med. ess. V. 338. *Mowat* and *A. Monro*, Ed. phys. ess. II. 266, 270. Haller opusc. min. II. 3. *Morgagni*, ep. 48, n. 48. Cooper, Phil. trans. 1775. Bablot de l'imagination. 8. Par. 1788. *Lucas*, M. Med. soc. Lond. IV. 94. *Monro*, Ed. tr.; Med. facts. VII. 170.

1. *Deformitas defectiva.*

A. Wanting many parts. A mola. Aët. IV. iv. 80. Forest. XXVIII. 60. Ballon. cons. I. 100. Barthol. Act. Hafn. I. n. 26. IV. n. 11. Mauriceau, 313. Ruysch obs. 28, 29, 58. Stalpart. I. 70, 173. Heister chir. n. 156. Watson, Phil. trans. † *Browning*, Phil. trans. 1751. 278; a dwarf, weighing at 15 but 12 or 13 pounds, ultimately 31 inches high, and crooked. *Morgagni*, ep. 48, n. 12...; rather menorrhagia. *Lecat*, Phil. trans. 1767. 1; a twin mola without a heart; *Johnston*, 118; an imperfect brain; *Cooper*, 1775. 311; no head nor heart. Heim in Selle N. beitr. II. 128. *Heysham*, Dunc. med. comm. XIII. 429; no brain.

B. Defect in the retina or optic nerve. *Huddart*, Phil. trans. 1777. 260; want of discrimination of colours. *Scott*, 1778. 611; knows only yellow. Dalton, Manch. Mem.

C. Hare lip. Barthol. III. 348. Albin. annot. ac. IV. xii. *Lafaye*, M. Ac. chir. I. 605; *Louis*, IV. 385. V. 292, 873. Chorin, Journ. Chir.; Med. facts. III. 153; double.

D. Spina bifida. See hydrops capitis, xliv.

E. About the abdomen. *Calder*, Ed. med. ess. I. 203; intestine perforated the parietes. *Dinmore*, Lond. med. journ. XI. 339; parietes deficient.

F. Of the heart; the foramen ovale remaining opening, the lips purple. Cyania, Crichton. *W. Hunter*, Med. obs. inq. VI. 291. *Pulteney*, Med. trans. III. 339. *Nevin*, Dunc. med. comm. XIX. 325. *Baillie's* engr. 21; inverted distribution of the arteries. *Standert*, Phil. trans. 1805. 228; purple, but otherwise well; the heart single; see Anatomy. *Marcet*, Ed. med. journ. I. 412. *E. Thomas*, M. Med. soc. Lond. VI. 57; the affection disappearing after some years, with proper diet; *Spry*, 137; foramen ovale and ductus arteriosus open, at 17.

G. Want of some of the sexual organs. Hermaphroditism, and malconformation of the pelvis viscera in general. *Mowat*, Ed. med. ess. III. 276. † *Parsons*, Phil. trans. 1751. 142; clitoris. *Innes*, Med. comm. Ed. II. 437. *Green*, Lond. med. journ. IV. 403. *Ford*, Med. facts. V. 92. *Baillie*, Tr. soc. med. ch. kn. I. 189. *A. Duncan*, Ed. med. journ. I. 43, 132; bladder deficient; *Coates*, 39; *Cooper*, 129. *Barclay*, 403; openings into the corpus spongiosum ?? Ackermann androgyni historia. f. Jen. 1805; Ed. med. journ. III. 202; *Soden*, IV. 32.

2. *Deformitas excessiva.*

A. Adhesion of the tongue.

B. Imperforate nostrils.

C. Imperforate ear.

D. In the fauces. *Ford*, Med. commun. I. 444; hairy excrescences.

E. At the pylorus. *Calder*, Ed. med. ess. I. 203.

F. Imperforate rectum. Scultet. obs. 4. 77. Plater. III. 601. Bartholin. Mauriceau, I. 489. *Jamieson*, Ed. med. ess. IV. 442. Gregory, Phil. trans. *Petit*, M. Ac. chir. I. 377. *Morgagni*, ep. 32. n. 3... Bertin, M. Ac. Par. 1771; Med. comm. Ed. IV. 164. *Wright*, Med. comm. Ed. III. 419. Pappendorp von der verschliessung des afters. 8. Leipz. 1783. *Ford*, Med. facts. I. 102. Mansell, M. Med. soc. Lond. III. 389. *Adair*, Med. facts. IV. 27. *Chamberlayne*, M. Med. soc. Lond. V. 206. *Kennedy*, Dunc. ann. 1801. 351. *Baillie's* engr. 77.

G. Imperforate urethra.

H. Imperforate vesiculae seminales. *Baillie's* engr. 159.

I. Imperforate hymen. *Eason*, Med. comm. Ed. II. 187; *M'Cormick*, 188. *Fynney*, III. 194; an inch thick. *Niven*, Dunc. med. comm. IX. 330; *Helsham*, XIII. 278; *Fryer*, Med. facts. VIII. 133. *Smith*, Dunc. ann. 1797. 331. *Sherwen*, Med. records, 279; married 14 years. Kaeymer, Dunc. ann. 1801. 347; supposed menstruation.

K. Double uterus. *Purcell*, Phil. trans. 1774. 472. Canestrini, Med. facts. III. 171. *Pole*, M. Med. soc. Lond. IV. 221.

3. *Deformitas distorsiva.* Lordosis, *Sauvages*, I. 162; sometimes. Gibber, Tortura, Strabismus, Linn. Phoxos, Cyphosis, Lordosis, Scoliosis, Seisis, Caput obstipum, Varus, Valgus, Leiopodes, Saniodes, Vogel. Venel's machines for club feet, described by Naumburg. 8. Leipz. 1796. Loders journ. Sheldrake on the club foot. 8. Lond. 1798.

4. *Deformitas translatitia.*

A. Brain protruded. See hernia encephalocele, lxvi.

B. Heart on the right side.

C. Subclavian behind the trachea. *Bayford*, M. Med. soc. Lond. II. 251; palpitation in swallowing.

D. Abdominal viscera in the thorax. *Macaulay*, Med. obs. inq. I. 25.

E. Vena portarum joining the cava. Abernethy. See physiology.

F. Parorchidium, *Sauvages*, I. 222. Plater. mant. Ambr. Par. VII. Barthol. hist. an. Morgagn. adv. iv. Quelmalz in Hall. disp. an. V. i. Verdier, M. Ac. chir. II.

G. Uterus displaced. *Pole,* M. med. soc. Lond. III. 507.

5. *Deformitas coloris.* Naevus, *Sauvages,* I. 130.

† Exangeia intermedia.

6. *Deformitas unitorum.*

A. Simply united. *Percival,* Phil. trans. 1752. 360; *Torkos,* 1757. 311. Leroy, Journ. méd. I. *Torlese,* Phil. trans. 1782. 44. *Oliphant,* Dunc. med. comm. X. 249. *Reichel* and Anderson, Phil. trans. 1789. 157; *Home,* 1790. 296; 1799. 28; double head. *Knox,* Dunc. med. comm. XVI. 291. *Mather,* Med. facts. IV. 107; *Simmons,* VIII. 1. *Gibson,* Phil. trans. 1810. 123.

B. One being enclosed within the other. *G. W. Young,* Medicoch. tr. I. 234.

ACOLOGY.

SENSIBLE AGENTS.

MECHANICAL AGENTS.

I. CLIMATES.

In general.) Hippocrate de l'air, par Coray. 2 v. 8. Par. 1800. Arbuthnot on air. Lond. 8. 1735. M'Fait de aere aquis et locis. 8. Ed. 1745; Smellie thes. I. 289. Mosca dell' aria e dei morbi. 4. Nap. 1746. Huxham de aere. 8. Lond. 1752. Huxham, Phil. trans. 1758. 528; effect of hot weather. Robinson on the virtues of medicines. 8. Dubl. 1752. Helds vortheile des landlebens. 4. Frankf. 1753. Heberden, Med. trans. II. 522; are damp clothes noxious? Unimportant. Hillary on changes of the air. Gilchrist on sea voyages. Rutty's history of the weather for 40 years. 8. 1770. Zückert von der luft. 8. Berl. 1770. Richards natürliche geschichte der luft. 8. Nur. 1773. Gregory de coeli mutatione. 8. Ed. 1776; Smellie thes. III. 315. * Cotte, Soc. R. méd. passim. Fontana, Phil. trans. 1779. 432; atmosphere little varying; Ingenhousz; 1780. 354; at sea; small islands healthy; 1782. 426; influence of vegetables. Wilson on climate. 8. Lond. 1780. A. Cullen de frigore. 8. Ed. 1780; Smellie thes. IV. 176. Falconer on climate. 4. Lond. 1781; Lond. med. journ. I. 409; "a work of great practical utility." Rothe. Gmelin über die luft. Berl. 1784. * Kirwan on the temperature of different latitudes. 8. Lond. 1787. * Finke Medicinisch practische geographie. 3 v. 8. Leipz. 1792-5. Beddoes, Med. facts. IV. 148; heat and

cold. W. Heberden, Phil. trans. 1796. 279; influence of cold. Stock on the effects of cold. 8. 1805. Kirwan, Ir. trans. VIII. 296; variations of the atmosphere. Young's Nat. Phil. I; lectures on meteorology; II; literature. Robertson on the atmosphere. 2 v. 8. See Essay on climates.

Great Britain.) Bisset on the medical constitution of Great Britain. 8. Lond. 1762. Williams on the climate of Great Britain, and its changes. 8. Lond. 1807; Ed. med. journ. IV. 87. Manchester.] Percival, Phil. trans. 1774. 54, 1775. 322; population. Chester.] Haygarth, Phil. trans. 1778. 131. France.) Raymond, M. Soc. R. méd. II. 66; Marseilles and its territory; about $\frac{1}{4}$ die of consumption; Villar, 141; Champdaur, in Dauphiné; Cotte, III. 61; Montmorency; Madier, IV. 85; Bourg St. Andiol; Brieude, V. 257; upper Auvergne. Germany.) Reyger über die witterung in Danzig. 8. Dantz. 1770. Formey Medicinische topographie von Berlin. 8. Berl. 1796. Italy.) Lancisius de coelo Romano. 4. Rom. 1711. Thouvenel sur le climat de l'Italie. Pugh on the climate of Naples, Rome, and Nice. 8. Lond. 1784. Minorca.) Small, Phil. trans. 1776. 439. Malta.) Domeier on Malta. 8. Lond. 1810. Sierra Leone.) Winterbottom, Med. facts. VIII. 56. Madeira.) Adams's guide to Madeira. 8. Lond. 1801. Gourlay on Madeira. 8. Lond. 1811. Pitta on Madeira. 8. Lond. 1812. America.) Holyoke, Amer. Ac.; Med. facts. VII. 225. Philadelphia.] Trans. coll. phys. Phil. Maryland.] Brooke, Phil. trans. 1759. 58, 70. Jamaica.] T. Clarke, Med. comm. Ed. V. 321.

Particular observations.) Ed. med. ess. I... 1; Ker, V. 35; comparative view. Dunc. med. comm. passim; Edinb. at 12. Schotte, Phil. trans. 1780. 478; Senegambia. Clarke, Dunc. Med. comm. VII. 369; at Jamaica. Kinnaird, Dunc. med. comm. IX. 425; hoar frost on a thermometer increasing the apparent cold. Six, Phil. trans. 1788. 103; local heat. Kite's essays. 8. Lond. 1795. Carrick, Dunc. ann. 1803. 421; Clifton. Stirling, M. S. R. S.; Penzance and Glasgow.

Epidemic constitutions.) Ed. med. ess. I. 37; for 1731. Lorry, M. Soc. R. méd. I. 1; 1775-6; Leroy and Geoffroy, II. 1, 14; 1777-8. Geoffroy and Coquereau, III. 1; 1779; Geoffroy, IV, V, VII. 1780... W. Heberden on the increase and decrease of diseases. 4. Lond. 1803; Dysentery has amazingly decreased, fever and rickets considerably; apoplexy, palsy, and consumption have increased, in London. Jameson on the changes of the human body. 8. Lond. 1812.

Mortality and values of lives.) Ed. med. ess. I. 45; 1731-2. Dodson, Phil. trans. 1752. 333; Brackenridge, 1755. 181, tables, and elsewhere; A letter, 1761. 46; More, 140; at Holycross; T. Heberden; 1767, 461; Madeira. Short on the increase and decrease of mankind. 4. 1767. Price, Phil. trans. 1769. 89; Gorsuch, 1771. 57; Holycross; Haygarth, 1774. 67, 1775. 85; Chester; Aikin, 1774. 438; Warrington; Price, 1775. 424; town and country; Pulteney, 1778. 615; Blandford; Bland, 1781. 355; parturition and probability of life; White, 1782. 35; Gorsuch, 53; Holycross. Süssmilch Göttliche ordnung. 2 v. 8. Berl. Heberden finds the mortality from consumption 3000, 4000, and 5000 out of 21000, in London, in the beginning, middle and end of the 18th century.

† Lunar influence.) Mead de imperio solis et lunae. 8. Lond. 1746. Kratzenstein vom einflusse des mondes. 8. Hall. 1747. Balfour on the influence of the moon in fevers. 8. Calcutta. Lond.; Dunc. med. comm. IX. 147, XX. 171. Jackson. Lond. med. journ. VIII. 300.

II. HABITS.

Preservation of health in general. Hygiene.) Celsus, I; Lommius in Celsum de sanitate tuenda. 8. Leyd. 1724. Ramazzini de principum valetudine tuenda. Cheyne on health and long life. 8. 1734. Stentzelius de somno praestantissimo sanitatis et morborum auxilio. Gr. L. 8. Ghent, 1744. Gaubius de regimine mentis. 4. Leyd. 1747, 1763. Platner von krankheiten aus unterlassung der reinlichkeit. 8. Dresd. 1750; the contrary extreme, of too fastidious cleanliness, may also very possibly be in some cases injurious. Beddoes. Y. Lind on preserving the health of seamen. 8. Lond. 1757. Mackenzie on preserving health. 8. 1759. Monceau, (Duhamel?) Moyen de conserver la santé aux equipages des vaisseaux. 12. Par. 1759. Krügers unterricht für soldaten. 8. Hall. 1763. Cook, Phil. trans. 1776. 402. Pringle's discourse. .4. Lond. 1776. Tissot de valetudine literatorum. 8. Laus. 1776. Rollo on preserving health in the West Indies. 12. Lond. 1783. Tode Der unterhaltende arzt. 8. Copenh. 1785; " excellent." Rothe. Gillespie, Lond. med. journ. VIII. 113; at sea. Frank. Hebenstreit. Eickemeier. Cancrin. Scheidemantel über die leidenschaften als heilmittel. 8. Hildburgh. 1787. Fordyce, Tr. soc. med. ch. kn. I. 243; mode of life in London. Verhaltungsregeln bey nahen donnerwettern. 8. Gott. † Westrumb über bleyglasur. 8. Hannov. 1795. * Hufeland Kunst das leben zu verlängern. 8. Jen. 1798. Hufeland on the preservation of life. 2 v. 8. Lond. 1797. Gillespie on the preservation of the health of seamen. 8. 1798. Garnett's lecture on the preservation of health. 12. Lond. 1800. Struve on maintaining feeble life, by Johnson. 8. 1801. Nisbet's guide to the watering places. 12. Lond. 1804. Manual of health, by Beddoes. 12. Lond. 1806. Winterbottom's directions for hot climates. 12. 1806. Sinclair's code of health and longevity. 4 v. 8. Lond. 1807. Physical

education.] Andry Orthopädie. 8. Berl. 1744. Hufeland. Wichman. Frank über die kindererziehang. 8. Leipz. 1794. Vogels unterricht für ältern und erzieher. 8. Stend. Würzer über die physische erziehung. 8. Bonn, 1796. Frankf. 1797. St. Marthe's paedotrophia, by Tytler. 8. 1797. Struve and Willich on physical education. 8. Lond. 1801; Dunc. ann. 1801. 290. Management at a later period.] Fothergill, Med. obs. inq. V. 160. Exercise.] Tissot's gymnastics. † Tessier, M. Soc. R. méd. V. 555; on the migrations of flocks. Wollaston, Phil. trans. 1810. 1; riding. Ventilation.] Sutton on extracting foul air. 8. Lond. 1749. Hales, Phil. trans. 1755. 332; in ships. Carrère, M. Soc. R. méd. IV. 215; Lavoisier, V. 569. Guyton Morveau Moyens de désinfecter l'air. 8. Par. 1801; Dunc. ann. 1802. 1. Guyton and Chaptal; Ed. med. journ. II. 290; with remarks; the editors have frequently traced contagion to the shambles. Nursing.] Cadogan on nursing. 8. 1772. Mayens unterricht. 8. Mannh. 1782. Pfähler Unterricht. 8. Rig. 1793. Carrere, Keck, Krügelstein.

Hospitals.) Howard on lazarettos. 4. Lond. 1789, 1791. Lettsom, M. Med. soc. Lond. IV. 321; Newgate. Anstalten in Magdeburg. 8. Magd. 1793. Hebenstreit med. poliz. 188. Blizard's suggestions. 8. Lond. 1796. Malaspina über die hospitäler, von Titius. 8. Leipz. 1798. Rollo on the Royal artillery hospital. 12. Lond. 1801. Bateman, Ed. med. journ. I. 117; On foundling hospitals, 319. Faulkner on an hospital for officers. 8. Lond. 1810; Ed. med. journ. VI. 355. In the infirmary at Edinburgh, the mortality has usually been about 1 in 18. (Faucken. Stoll. Furstenau. Sturm. Grosser. Nahuys. Aikin. Percival. Petit. Richer.)

III. CLOTHING.

Gladback de morbis a vestitu contra frigus insufficiente. 4. 1761. Camper sur les souliers. 8. Lond. med. journ. IV. 343. Thompson, Count Rumford, Phil. trans. 1787. 240; absorption of moisture. W. Vaughan on clothing. 8. Lond. 1792. Sömmering über die schnurbrüste. 8. Berl. 1793. Creve versuch einer modernen kleidung. Vienn. 1794.

IV. INSTRUMENTS AND OPERATIONS.

Instruments in general.) Sculteti armamentarium. 2 v. 8. Amst. 1741. Garengeot des instrumens de chirurgie. 2 v. 12. Hag. 1725. Monro, Ed. med. ess. V. 454. Schwediauer descriptio praeparationum et instrumentorum. 8. Vienn. 1772. Brambillae instrumentarium. f. Vienn. 1782. Hofer Lehrsätze des chirurgischen verbandes. 3 v. 8. Erl. 1790-2. Böttcher Auswahl des verbandes. 8. Berl. 1795. Köhler Anleitung zum verbande. 8. Leipz. 1796; much praised. Arnemans übersicht. 8. Gott. 1796. Savigny on surgical instruments. f. Lond. 1798. Knaur selectio instrumentorum. f. Vienn. 1798.

Particular instruments and mechanical applications.) A car.] Crichton, Ed. med. journ. I. 252; for conveying the wounded. Lancets.] Daubenton, M. Soc. R. méd. V. 563. Razors.] Kingsbury. 8. Lond. 1810. Leeches.] Durondeau, M. Ac. Bruss.; Lond. med. journ. III. 139. Horn on leeches. 8. Lond. 1798. Styptics.] Parsons, Phil. trans. 1755. 38; dust of lycoperdon, or puff ball. See vulnus. Cautery.] Spiritus de cauteriis. Gott. 1781. Percy Pyrotechnie chirurgicale. 12. Par. 1794; Rec. pér. I. 323. Lint.] Terras, Samml. ärtz. X. Sponge.] Van Wy.

Lycopodium.] Arnem. arzneimittellehre, II. 224. Tourniquet.] Kellie on the tourniquet. 8. Ed. 1797; Dunc. ann. 1797. 127; constitutional effects. Simmons, Med. facts. VIII. 19. Trepans.] King, Ir. trans. IV. 119; Med. facts. VII. 191. O'Halloran, Ir. trans. IV. 151; Med. facts. V. 161; trephine. Levator.] Petit, M. Ac. chir. I. 302. Teeth.] (Sepia octopodia.) Clarke, Med. facts. VI. 120; a key instrument; Savigny, VII. 90. Inhalation.] Ford, Med. commun. II. 123. Withering, Dunc. ann. 1798. 447. Bandages.] Lucas, Lond. med. journ. IX. 44. Bougies.] Wilkinson, Lond. med. journ. IX. 378. Häger dissertatio. Hall. 1795. Catheter.] Ware on the eye. 8. Lond. 1805; Ed. med. journ. II. 233. Pessary.] Simson, Ed. med. ess. III. 311. Denman, Lond. med. journ. VII. 56; globe. Hunold de pessariis. 8. Marb. 1790.

Operations of surgery in general.) Garengeot Operations de chirurgie. 3 v. 12. Ledran Operations. 12. 1745; praised by Sharp. Sharp's researches on the state of surgery. 8. Lond. 1739, 1750. Moore on diminishing pain in operations. 8. Lond. 1784; Lond. med. journ. V. 369. Hunczovskys anweisung zu chirurgischen operationen. 8. Vienn. 1794. * Sabatier Médecine opératoire. 3 v. 8. 1796. Rougemonts handbuch. 8. Frankf. 1797; with literary references. Zeller über den nutzen des kalten wassers bey operationen. 8. Vienn. 1797. C. Bell's operative surgery. 2 v. 8. 1807.

Particular operations.) Bleeding.] Franciscus de abusu venaesectionis. 12. Frankf. 1685. Quesnay Art de guérir par la saignée. 12. Par. 1736. Monro, Ed. med. ess. II. 279; aneurysm produced. Dickson on bloodletting. 4. Lond. 1765. Lentin de praerogativa venaesectionis in partibus laborantibus. 4. Gott. 1779. Tralles de vena jugulari frequentius secanda. 8. Bresl. Bücking Anleitung zum aderlassen. 1781. Butter's method of opening the temporal artery. 8. 1783. Bach über das allzuofte blutlassen. 8. Bresl. 1786. Bach vom nützen der blutigel. 1789. Colby, Med. commun. II. 18; the supposed

puncture of a tendon; relieved on the appearance of erysipelas. Wolstein Anmerkungen. 1791. J. Hunter, Tr. soc. med. ch. kn. I. 18; inflammation of the internal coats of veins. Mezler Geschichte des aderlasses. 8. Ulm. 1793. Malden, M. Med. soc. Lond. IV. 414. Pemb. abdom. visc.; a large orifice. Compressing the arteries.] Parry, M. Med. soc. Lond. III. 77, Phil. trans. Ligature.] Aikin on ligature. Lond. 1770. Jones, Ed. med. journ. II. 176. I have often wished to try ligatures of catgut, which might be absorbed. Y. Issues.] Hahn de fonticulis. Strasb. 1781. Setons.] Mauchard; Hall. disp. ch. II. Excision of tumours.] Trepanning.] Quesnay, M. Ac. chir. I. 188, 251. Med. comm. Ed. II. 313; by Copeland. Lassus, M. Ac. chir. V. 80. Mynors on trepanning. 8. 1785. Girand, Dunc. med. comm. IX. 272. O'Halloran, Ir. trans.; see instruments. Eye.] Couching and extraction. See Phtharma. Louis, M. Ac. chir. V. 161; extirpation. Tongue.) Division of the fraenum. Home, Phil. trans. 1803. 205; ligature; also Inglis, Ed. med. journ. I. 34. Bronchotomy.] Louis, M. Ac. chir. IV. 455, 513. Ficker de tracheotomia et laryngotomia. 4. Erf. 1792. Oesophagotomy.] Guattani, M. Ac. chir. III. 351. Thorax.] Martinière, M. Ac. chir. IV. 545; trepanning the sternum. Brandes de thoracis paracentesi. 8. Gott. 1791. Abdomen and pelvis.] Paracentesis, Monro, Ed. med. ess. I. 214; Ford, Med. commun. II. 123; Ja. Sims, M. Med. soc. Lond. III. 472. Nephrotomy, Douglas, Ed. med. ess. I. 231. Paracentesis of the bladder, see Ischuria, xxiii. Lithotomy, see Lithiasis, xxxiv. Marschal von der kastration. 8. Salzb. 1791. En'ema, ἔνεμα, Pfaff historia clysterum. Jen. 1780; Kämpf neue methode. 1785; Schaden der klystire. Leipz. 1789; see Colica, vii, cathartics, 20. Amputation.] Lafaye, M. Ac. chir. II. 243, flap; Garengeot, 261. Louis, 268, 355, IV. 40. Mudie, Ed. phys. ess. III. 502. White, Med. obs. inq. IV. 168. Brasdor, M. Ac. chir. V. 747; at the joints. Lucas, Med. obs. inq. V. 323; flap. Mynors on amputation. 12. Alanson on amputation. 8. Lond. 1782; Lond. med. journ. IV. 153. Jones, Dunc. med. comm. IX. 326; flap. Blizard on the

situation of the large bloodvessels of the extremities. 8. Lond. 1785. Ploucquet von der unblutigen abnehmung der glieder. 8. Tub. 1786; Allg. lit. zeit. 1787. III. 697. Lucas, Lond. med. journ. VII. 225; Haine's remarks. 377; Lucas, VIII. 142; Sparrow, IX. 109; Lucas, 223. Johnston, Dunc. med. comm. XIII. 366. Flajani osservazioni. 8. Rom. 1791. Amputation at the shoulder joint.] Lafaye, M. Ac. chir. II. 239. Bard, Dunc. ann. 1797. 282. Robinson, Ed. med. journ. I. 289. Cutting, Medicoch. tr. II. 264. Amputation of the lower extremity.] Monro, Ed. med. ess. IV. 321; good. Veyret, M. Ac. chir. II. 265. Gooch, Phil. trans. 1775. 373. Kerr, Med. comm. Ed. VI. 387; hip joint. Turner, Lond. med. journ. IX. 54; middle of the foot. Veitch, Ed. med. journ. III. 129; hip joint. Excision of bone.] Lecat, Phil. trans. 1766. 270; part of the humerus. White, Phil. trans. 1769. 39; Orred, 1779. 6. Park on the extirpation of joints. 8. Lond. 1783; Lond. med. journ. IV. 273; Park, XI. 22. Park, Moreau and Jeffray. Glasg. 1806. Trepanning the tibia.] Vergan, Lond. med. journ. X. 80; for an internal fracture.

CHEMICAL AND VITAL AGENTS.

PHARMACOLOGY.

Materia medica, including dietetics, or the materia alimentaria.

IN GENERAL.

Literature. Böhmer bibl. hist. nat. XI. Baldinger lit. mat. med. 8. Marb. 1793; chiefly a catalogue of academical essays. Bibliotheca Banksiana. 5 v. 8. Lond. 1798. . . I. 272. * Stokes's botanical materia medica. 4. v. 8. Lond. 1812; an immense

collection of references only, in botanical order. (Murray. Halem).

Dioscorides Saraceni. f. Frankf. 1598.

Matthiolus Bauhini. 2 v. f. Bale, 1598.

Bates's dispensatory, by Salmon. 12. Lond. 1713.

Boerhaave de materia medica. 12. 1740.

Geoffroy de materia medica. 3 v. 8. Par. 1741.

Pomet's history of drugs. 4. 1748.

Ward's receipts, by Page. 8. Lond. 1763.

Störck anni medici.

Channing, Phil. trans. 1767. 21 ; 3 Arabian substances.

Alexander's experimental essays. 8. Lond. 1768.

Alston's lectures. 2 v. 4. 1770.

Linnaei materia medica, Schreberi. 8. Vienn. 1773.

Rutty materia medica. 4. Rotterd. 1775. " Opus 40 annorum."

Wurz mappa medicamentorum secundum affinitates. 4. Strasb. 1778.

Coste et Willemet sur quelques plantes indigènes. 8. Nancy, 1778. Med. comm. Ed. V. 294.

Adair's hints, Dunc. med. comm. IX. 206. X. 233.

Anderson on evacuations.

Tingry and Gueret on cruciferous plants. M. Soc. R. méd. V. 341, 415.

* Lewis's materia medica, by Aikin. 4. Lond. 1784. Lond. med. journ. VI. 89.

Schöpf materia medica Americana. 8. Erl. 1787.

CULLEN's materia medica. 2 v. 4. Ed. 1789.

Home methodus materiae medicae. 12. 1789.

Römer Chirurgische arzneimittellehre. 8. Altenb. 1789. .

Hennings über einige arzneimittel. 8. Stend. 1789.

Wright on the medicinal plants of Jamaica. Lond. med. journ. VIII. 217; elaborate.

Lösecke materia medica. 8. Berl. 1790.

Gren Handbuch der pharmacologie. 2 v. 8. Hall. 1790-2. System. 3 v. 1798.

Althof Practische bemerkungen. 8. Gott. 1791.

Moore on the materia medica. 8. Lond. 1792.

* Murray apparatus medicaminum, ab Althof. 6 v. 8. Gott. Gmelin apparatus, regnum minerale. 2 v. 8. Gott. 1795-6.

Mellin Practische materia medica. 5 v. 8. Frankf.

Dietz über die methode in der arzneymittellehre. 8. Jen. 1793.

Schlegel thesaurus materiae medicae. 3 v. 8. Leipz. 1793-7.

Beddoes and Watt on factitious airs. 8. Lond. 1795. Dunc. ann. 1796. 245.

Gesenius Handbuch der Heilmittellehre. 8. 1796.

Jahn Auswahl der wirksamsten arzneymittel. 8. Erf. 1797. From a catalogue in Selle's Handbuch.

Arnemans arzneimittelkunde. 8. Gott. 1797.

Arnemans practische arzneimittellehre. Ed. 3. 2 v. 8. Gott. 1798. "Almost the best." Rothe.

R. Pearson thesaurus medicaminum. 8. Lond. 1794, 1804.

R. Pearson synopsis materiae medicae et alimentariae. 2 v. 8. Lond. 1797, 1807.

Tode Arzneymittel aus dem mineralreiche. 2 v. 8. Copenh. 1797-8.

Pharmacology contracted, by the French surgeons; Dunc. ann. 1798. 452. Aqua, acetum, vinum, hordeum, nitrum, mel, rheum, opium, stibium, ferrum, ignis.

* Fordyce, Tr. soc. med. ch. kn. II. 314. On the combination of medicines.

Peyrilhe Histoire naturelle médicale. 8. Par. 1799; Ed. med. journ. V. 479. Enlarged from Linné.

Swediaur materia medica. 2 v. 12. Par. 1800.

Parmentier Code pharmaceutique. 8. Par. 1803.

Graves's conspectus of the pharmacopoeias. 12. Lond. 1804.

Murray's materia medica. 2 v. 8. 1804.

Hahnemann de viribus medicamentorum in sano corpore. 2 v. 8. Leipz. 1805; Ed. med. journ. V. 374; "we have never met with an instance in which so much labour and attention, exerted in *attaining* so useful an object, have been so com-

pletely frustrated by want of judgment and discrimination."

Willdenow species plantarum.

Trommsdorfs journal der pharmacie. 12. Erfurt.

Withering's botany. 4 v. 8.

Kirby's tables of the materia medica. 12. Ed. 1805; Ed. med. journ. I. 492; a very useful compendium.

Cox on a medicine chest. 1808.

Pharmacopoeia chirurgica, with notes by Wilson. 8. Lond. 1809.

Synopsis pharmacopoeiae Londinensis. 8. Lond. 1810. By Dr. Haygarth.

* Woodville's medical botany, 4 v. 4; Ed. 2. Lond. 1810.

Paris's Pharmacologia. 8. Lond. 1812.

* Duncan's Edinburgh new dispensatory. 8. Edinb.

(Vogel, Cranz, Gleditsch, Spielmann, Pörner, Bergius, Gesenius, Lösecke, D. Monro, Batsch, Tode, Kühn, Haller von Vicat, Fourcroy, Mönch, Hildebrand, Cranz, Von Lippert, Plenck, Retzius von Westrumb, Harwood.)

For children under 12 years old, the doses of most medicines must be diminished in the proportion of the age to the age increased by 12: for example, at two years old, to $\frac{1}{7} = \frac{2}{2+12.}$. At 21 the full dose may be given. Y.

CHEMICAL AGENTS.

V. CAUSTICS.

Thesaurus secretorum. 4. Cologn. 1709; some depilatories and cosmetics.

1. *Argen'ti nítras.*
2. *Arsen'icum?* Perhaps rather a vital agent, even when applied as a caustic. Fowler's reports. 8. Lond. 1786; Lond. med. journ. VII. 192; Dunc. med. comm. XI. 113. Sherwen, M. Med. soc. Lond. II. 394; Gaitskell, IV. 79. Hill, Ed. med. journ. V. 19; Jenkinson, 309; Hill, 312. VI. 55. Thilenius, Bernard, Justamond.
3. *Calx.* Hume, Phil. trans. 1753. 163; lime water as an antiseptic; also Hales, 1754. 826. Blane, Tr. soc. med. ch. kn. II. 132.
4. A. *Potas'sa.* Hamilton, Ir. trans. V. 319; caustic alkalis as antiseptics.
   B. *Potas'sa cum cal'ce.*
   C. *Potas'sa fúsa.*

† Acidum sulfuricum, 27.
Aerugo? 25.
Alumen, 27.
Cupri sulfas, 19.
Hydrargyri oxydium, 19.
Hydrargyri oxymurias, 16.
Hydrargyri submurias? 16.
Hydrargyrum praecipitatum album? 16.
Unguentum hydrargyri nitratis, 25.
Saccharum? 8.

(Antimonii murias. Arsenici sulfuretum. Baritae murias?)

VI. ANTISEPTICS.

Resisting putrefaction.

1. *Car'bo lig'ni.*
2. *Sódae múrias.* Pringle, Phil. trans. Percival's essays. Henry, Phil. trans. 1810. 89.

† Absinthium, 18.
Acetum, 27.
Acidum nitricum, 27.
Aloe ? 20.
Alumen, 27.
Anthemis, 18.
Calx, 5.
Camphora ?
Cerevisiae fermentum, 25.
Cinchona, 28.
Dauci radix ? 25.
Gentiana ? 18.
Humulus, 29.
Limon, 27.
Marrubium ? 17.
Myrrha ? 28.
Potassa, 5.
Quercus ? 27.
Ruta ? 18.
Salix ? 28.
Serpentaria ? 28.
Styrax ? 17.
Terebinthinae oleum, 12.
Valeriana ? 11.

(Arnica, Bucholz Chemische versuche, 1776. Artemisia ? Chamomilla ? Citrus. Hippocastanum. Scordium.)

VII. ANTIDOTES.

Calculated to neutralise offending substances.

1. A. *Cor'nu us'tum.*	Gr. 30. .120.
B. *Mistúra cor'nu us'ti.*	Fl.ʒ iv. .viii.
2. A. *Créta praeparáta.*	Gr. 30. .120.
B. *Mistúra crétae.*	Fl.ʒ i. .iv.
C. *Pul'vis crétae compos'itus.*	Gr. 30. .60.
3. *Líquor cal'cis.*	Fl.ʒ ii. .viii.
4. A. *Líquor potas'sae.*	M. 10. .30.
B. *Líquor potas'sae subcarbonátis.*	M. 30. .90.
C. *Potas'sae carbónas.*	Gr. 10. .30. . .
D. *Potas'sae subcarbónas.*	Gr. 10. .30.
E? *Potas'sae sulfurétum.*	Gr. 5. .15.
5. A. *Magnésia.* Dunc. med. comm. X. 311; *directly* purgative.	Gr. 30. .60.
B. *Magnésiae "carbónas."*	Gr. 30. .120.
6. A. *Sódae carbónas.*	Gr. 10. .60.
B. *Sódae subcarbónas.*	Gr. 10. .30.
C. *Sódae subcarbónas exsiccáta.*	Gr. 5. .15.
7. *Tes'tae praeparátae.*	Gr. 30. .120.

† Acidum muriaticum, 27. Sapo, 12.
Acidum nitricum, 27. See lxxiv. Spongia usta, 26.
Ammonia, 12.

(Ammoniae hydrothéas. Bolus. Cancri chelae. Corallium.)

VIII. DEMULCENTS.

With emollients. Enveloping acrid substances, and softening hard or dry parts.

1. A. *Acáciae gum'mi.*	
B. *Mucilágo acáciae.*	M. 60. .480.
2. *A'deps.*	
3. A. *Althaéa.*	
B. *Syrúpus althaéae.*	M. 60. .120. . .
4. A. *Amy'gdala.*	
B. *Confec'tio amyg'dalae.*	Gr. 20. .240.
C. *Mistúra amyg'dalae.*	Fl. ℥ i. .viii.
D. *O'leum amyg'dalae.*	M. 60. .480.
5. A. *Am'ylum.*	
B. *Mucilágo am'yli.*	M. 60. .480.
6. *Avéna.*	
7. A. *Céra.*	
B. *Cerátum sim'plex.*	
C. *Emplas'trum cérae.*	
8. A. *Cetáceum.*	Gr. 5. .20.
B. *Cerátum cetácei.*	
C. *Unguen'tum cetácei.*	
9. *Confec'tio rósae canínae.*	Gr. 60. .240.
10. *Cor'nu.*	
11. A. *Cydónia.*	
B. *Decoc'tum cydóniae.*	Fl. ℥ i. .iv.
12. *Emplas'trum sapónis.*	
13. *Farína.*	
14. A. *Glycyrrhíza.*	
B. *Extrac'tum glycyrrhízae.*	Gr. 60. .240.
15. A. *Hor'deum.*	
B. *Decoc'tum hor'dei.*	Fl. ℥ iv. .viii.

C. *Decoc'tum hor'dei compos'itum.* Fl. ℥ iv. .viii.

16. A. *Líchen.* Ebeling de quassia et lichene; Med. comm. Ed. VI. 367. Cramer de lichene Islandico. 4. Erl. 1780. Crichton, Lond. med. journ. X. 229.

B. *Decoc'tum lichénis.* Fl. ℥ i. .iv.

17. A. *Líni sémen.*

B. *Infúsum líni.* Fl. ℥ i. .viii.

C. *O'leum líni.* M. 120. .480.

18. A. *Mal'va.*

B. *Decoc'tum mal'vae compos'itum.*

19. A. *Mel.*

B. *Ox'ymel sim'plex.* M. 60. .480.

20. *Olívae óleum.* W. Hunter dis. Lasc.; Ed. med. journ. II. 185; externally.

21. *O'vum.*

22. A. *Sac'charum.* Rigby. 8. 1788.

B. *Syrúpus auráutii.*

C. *Syrúpus cróci.*

D. *Syrúpus sim'plex.*

23. *Sévum.*

24. A. *Tragacan'tha.*

B. *Pul'vis tragacan'thae compos'itus.* Gr. 10. .60.

25. *Tussilágo.*

26. *U'vae pas'sae.*

† Carica, 20.
Decoctum sarsaparillae, 14.
Decoctum ulmi, 28.
Dulcamara, 14.
Mel boracis, 25.
Mel rosae, 27.

(Adeps anserinus. Adiantum. Al'cea. Amygdalus nana. Astragalus exscapus. Behen. Guilandina. Buglossum. Butyrum. Cacao. Cannabis. Carduus? Carex? Ceratonia. Dactylus, Phoenix. Eryngium. Foenum Graecum. Glycyrrhiza echinata. Helix. Iatropha, Tapioca. Ichthyocolla, Jackson, Phil. trans. 1773. 1. Juscula. Lac. Lactis saccharum. Lilium. Liquor gastricus, Sénébier. 8. Mannh. 1785. Malva rotundifolia. Ma-

ranta. Melilotus? Melissa. Melo. Nymphaea. Oleum nucis fixum. Cocos. Orchis. Oryza. Palmae oleum. Passulae. Pepo. Pini nuces. Polygala amara. Polypodium vulgare. Populus nigra. Ribis confectio. Sago, Cycas, Bruckmann. 4. Brunsw. 1751. Sambuci flores. Saponaria? Sarcocolla. Scorzonera. Symphytum. Thermae. Triticum repens? Verbascum. Zizyphus.)

IX. DILUENTS.

Simply diluting.

Jameson on diluents. 8. Lond. 1788.

1. *Aqua distillata.*

(Aqua. Including baths and mineral waters. Literature. Böhmer bibl. hist. nat. V; Gmelin in Linn. Syst. nat. In general, as an article of diet.] Schwerdtners kraft des wassers. 6 v. 8. Züllich. 1737-43. Hales, Phil. trans. 1755. 339; showers of air for sweetening water and milk. Cavendish, Phil. trans. 1767. 92; Rathbone place. Heberden, Med. trans. I. 1; London. Newland, Phil. trans. 1772. 90; distillation at sea; Nairne, 1776. 249; ice of salt water. Mauduyt, Soc. R. méd. I. 245; corruption. Henry on preserving water. 8. Warringt.; Dunc. med. comm. VIII. 63; lime, then carbonic acid. Leidenfrost de aqua communi. 12. Duisb. 1796. Hot and cold water internally.] Med. obs. inq. II. 156; hot, as an anodyne. Chavasse, Lond. med. journ. VII. 123. Bathing, hot and cold.] Haworth on the duke's bagnio. 8. Lond. 1683. Floyer on cold bathing. 8. Lond. 1702. Baccius de thermis. f. Pad. 1711. Stevenson, Ed. med. ess. V. ii. 866; pediluvium. Springsfeld de thermis Carolinis; Watson, Phil. trans. 1756. 895; lithiasis; Miller, 1757. 25, Whytt, 386; Carlsbad; Bruni, 1760. 839, Vinadio. Parr de balneo. 8. Ed.; Med. comm. Ed. I. 297. Athill

on cold bathing. 8. Ed.; Med. comm. Ed. VI. 62. Moneta über die kälte und das kalte wasser in katarrhkrankheiten. 8. Wars. 1779. Sanches, M. Soc. R. méd. III. 233; vapour baths. * Currie, Phil. trans. 1792. 199; effects of immersion. Currie, M. Med. soc. Lond. III. 147. * Marcard über die bäder. 8. Hanov. 1793; Dunc. med. comm. XX. 153. Vogel über den nutzen des seebades. 8. Stend. 1794. Buchan on sea bathing and on the warm bath. 8. Lond. 1804; Ed. med. journ. II. 456. Stock on the effects of cold in disease. 8. Lond. 1805; Ed. med. journ. II. 340; Reeve, III. 150; on the baths of Leuk, in which the patients remain 8 hours a day. Jackson on affusing cold water. 8. 1808. Kentish on warm and vapour baths. 8. 1809. Cochrane on the vapour bath. 4. Lond. 1809. Forbes, Ed. med. journ. VI. 313; a steam bath. Mineral waters.] Literature. Carrère Catalogue des ouvrages sur les eaux minérales; enumerates 252 general works, and 902 on the waters of France. Thomson, Ed. med. ess. II. 48; chalybeate; also Monro, III. 47. Rutty on mineral waters. 4. Lond. 1757. Rutty, Phil. trans. 1759. 275. Russel on sea water and on mineral waters. 8. Lond. 1769. Monro on mineral waters. 2 v. 8. 1770. D. Monro, Phil. trans. 1772. 15. Higgins's synopsis of some mineral waters. 12. Lond. 1781. Zückert, von Kühn. 8. Bresl. 1789. Zwierlein Brunnenschrift. 8. Weissenf. 1793. Hofmann Taschenbuch. 8. Weim. 1794. Systematische beschreibung aller gesundbrunnen und bäder. 8. Jen. 1798; about 600 described, with references. Wichmann über mineralische wasser. 8. Hannov. 1797. Kenney, Ir. trans. V. 83; artificial sulfureous water. Paul on artificial mineral waters. 8. 1802. Saunders on mineral waters and on bathing. 8. 1805. ¶. Sea water. White, 8. 1791. Taylor, 8. 1805. ¶. England. Lister de fontibus medicatis Angliae. 8. York. 1682. Malvern.] Wall, Phil. trans. [1756. 459, 1757. 23. With notes by his son. 8. 1806. Wilson on Malvern waters. 8. 1807. Buxton and Matlock.] Percival, Phil. trans. 1772, 455. Armstrong, Dunc. med. comm. VII. 377. Pearson on Buxton water. 2 v. 8. Lond.; Dunc. med. comm. IX. 124. Denman on Buxton water. 8. 1801. Bath and

Bristol.] Howard, Phil. trans. 1767. 201; Canton, 203. Falconer on Bath waters. 8. 1798. Cheltenham.] Accum's analysis. 1808. Jameson. 8. 1809. Harrowgate.] Garnett on Harrowgate waters. 8. Lond.; Dunc. med. comm. XVII. 66. Garnett, M. Med. soc. Lond. V. 123. Wigglesworth.] Garnett, M. Med. soc. Lond. V. 119. Somersham.] Layard, Phil. trans. 1766. 10. Kilburn and Hampstead.] Bliss. 8. 1802. Schmeisser, Phil. trans. 1792. 115; Kilburn. Goodwin on Hampstead waters. 8. 1804. Amlwch and Hartfell.] Rutty, Phil. trans. 1760. 470. ¶. Scotland. Moffat.] Milligen, Ed. med. ess. I. 62; Plummer, 82. Walker, Phil. trans. 1757. 117. Hartfell.] Horseburgh, Ed. phys. ess. I. 341. Montrose.] Thomson, Ed. med. ess. III. 60. 96. ¶. Germany. Scheidemantel. 8. Goth. 1792. Seltzer.] Brocklesby, Med. obs. inq. IV. 7. Pyrmont.] Marcard über Pyrmont. 2 v. 8. Leipz. 1784-5. Auszug. 8. Pyrm. 1791; Dunc. med. comm. XIII. 264. ¶. St. Miguel.] Gourlay, Dunc. med. comm. XVI. 232.) (Cerevisia tenuis.)

VITAL AGENTS.

A. SUPPORTING STRENGTH.

X. NUTRIENTS.

Sanctorius de medicina statica, a Lorry. Rüdiger de diaeta eruditorum. 8. Leipz. 1728. Arbuthnot on aliments. 8. Lond. 1731, 1756. Chimie du gout et de l'odorat. 8. 1755. Krügers diät. 8. Hall. 1763. Lorry sur les alimens. Guthrie, Phil. trans. 1778. 622; Russians. Falconer on diet and regimen. 8. Lond. 1778. Richter praecepta diaetetica. 8. Heidelb. 1780. Fothergill, Med. obs. inq. VI. 103; somewhat fanciful. H. Soc. R. méd. VII. 221; for the navy. Plenck bromatologia. 8. Vienn. 1781. Parmentier sur les végétaux nourrissans. 8. Par. 1781.

Cuisinière bourgeoise. 8. Par. Zückert von den nahrungsmitteln, von Sprengel. 8. Berl. 1790. Mackittrick Adair's medical warnings. 1804. Bergius über die leckereyen, von Forster. 8. Hall. 1792. Germershausens hausmutter. 8. Leipz. Kühn. R. Pearson. Willich on diet. 8. Lond. Culina famulatrix medicinae. 8. Lond. 1810; by Hunter.

† Many demulcents, 8. Excitants, 12, as condiments.

(Mammalium caro. Lac.] Young. Ferris on milk. 8. Lond. 1785. Clarke, Ir. trans. II. 171; Lond. med. journ. XI. 71; human milk, and its digestion, without coagulation. Grieve, Ed. trans. I. 178; Lond. med. journ. X. 197; koumiss. Avium caro. Ova.] Amphibiorum caro. Ova.] Piscium caro. Ova.] Watson, Phil. trans. 1754. 870; castration of fish. Insecta.] Vermes.] Vegetabilia: radices, herbae, fructus et semina, fungi, algae.] Bryant on esculent plants. Clark, Med. facts. VII. 300; amylaceous matter of different vegetables. Salep, Moult, Phil. trans. 1769. 1. Percival's essays. Tapioca, Lond. med. journ. IX. 67. The " arrow root" sold in the shops is a pure starch, and is often counterfeited by simply grating raw potatoes into a sieve,and washing the powder through with pure water. Earths.] Ed. med. journ. VI. 316; from Humboldt.

B. CAUSING ACTION.

The term action is understood as including the exertion of any of the powers of the system.

1. *PARTIALLY AND TEMPORARILY.*

XI. EXPERGEFACIENTS.

Increasing the activity of the nervous system.

1 ? *A'qua rósae.* Rather astringent.	
2. A. *Assafoet'ida.* Hope, Phil. trans. 1785. 36.	Gr. 10. .30.
B. *Mistúra assafoet'idae.*	Fl. ℥ ss. .i.
C. *Spir'itus ammóniae foet'idus.*	M. 30. .60.
D. *Tinctúra assafoet'idae.*	M. 30. .120.
3. A. *Cam'phora.* Alexander, Phil. trans. 1767. 65. Hallé, M. Soc. R. méd. V. 66. Crawford, Dunc. med. comm. XVIII. 253; " great adulteration ;" but with what ?	Gr. 3. .20.
B. *Mistúra cam'phorae.*	Fl. ℥ ss. .iv.
C. *Spir'itus cam'phorae.*	M. 30. .90.
4. A. *Castóreum.*	Gr. 5. .20.
B. *Tinctúra castórei.*	M. 30. .120.
5. *Crócus.*	Gr. 10. .60.
6. A. *Gal'banum.*	Gr. 10. .30.
B. *Emplástrum gal'bani compos'itum.*	
C. *Pil'ulae gal'bani compos'itae.*	Gr. 10. .30.
7. A. *O'leum suc'cini.*	M. 10. .30.
B. *Spir'itus ammóniae succinátus.*	M. 10. .30.
8. *Opop'anax.*	Gr. 10. .30.
9. A. *Rosmarínus.*	Gr. 10. .30.
B. *O'leum rosmaríni.*	M. 2. .5.
C. *Spir'itus rosmaríni.*	M. 60. .240.
10. *Sagapénum.*	Gr. 10. .30.
11. A. *Valeriána.*	Gr. 20. .120.
B. *Tinctúra valeriánae.*	M. 30. .120.
C. *Tinctúra valeriánae ammoniáta.*	M. 30. .120.

† Capsicum ? 12.
Elemi ? 25.
Limonis cortex ? 12.
Lytta ? 12.
Moschus, 29.
Olibanum ? 25.
Pyrethrum ? 16.
Senega, 17.
Vinum ? 13.

(Acidum aceticum aromaticum. Acidi carbonici liquor. Ambra grisea. Coffea; Percival's essays. Jasminum ? Phosphorus ?? Thea bohea, viridis. Lettsom on the tea tree. 4. Lond. 1799.)

XII. EXCITANTS.

Producing a strong local impression on the nerves.

Many of them are commonly called stimulants, but this term has been used in too vague a sense to be conveniently applied to a well defined class or order of substances. Rubefacients and Aromatics in general are included in this order. The "impression on the nerves" is perceived wherever the nerves are particularly delicate, as by the lips, or the eye, and often in any other part.

1. *Al'lium.* Succus.	M. 60. .240.
2. A. *Ammóniae* " *carbónas.*"	Gr. 5. .20.
B. *Linimen'tum ammóniae carbonátis.*	
C. *Linimen'tum ammóniae for'tius.*	
D. *Líquor ammóniae.*	M. 10. .20.
E. *Líquor ammóniae carbonátis.*	M. 30. .90.
F. *Spir'itus ammóniae.*	M. 30. .120. . .
G. *Spir'itus ammóniae aromat'icus.*	M. 30. .120. . .
3. A. *Armorácia.*	M. 30. .60.
B. *Infúsum armoráciae compos'itum.*	Fl. ℥ i. .iv.
C. *Spir'itus armoráciae compos'itus.*	M. 60. .240.

4. *Cajupúti óleum.*	M. 1. .5.
5. *Cal'amus.*	Gr. 10. .60.
6. A. *Cap'sicum.* Collins, Med. comm. II. 363.	Gr. 3. .10.
B. *Tinctúra cap'sici.*	M. 10. .120.
7. A. *Cardamómum.*	Gr. 5. .30.
B. *Tinctúra cardamómi.*	M. 30. .240.
C. *Tinctúra cardamómi compos'ita.*	M. 30. .240.
8. A. *Car'ui.*	Gr. 10. .60.
B. *A'qua car'ui.*	Fl. ʒ ii. .iv.
C. *O'leum car'ui.*	M. 1. .5.
D. *Spir'itus car'ui.*	M. 30. .240.
9. A. *Caryophyl'li.*	Gr. 5. .30.
B. *Infúsum caryophyllórum.*	Fl. ʒ i. .iv.
C. *O'leum caryophyllórum.*	M. 3. .6.
10. A. *Cinnamómum.* White, Phil. trans. 1758. 860.	Gr. 5. .20.
B. *A'qua cinnamómi.*	Fl. ʒ i. .iv.
C. *Confec'tio aromat'ica.*	Gr. 10. .120.
D. *O'leum cinnamómi.*	M. 1. .3.
E. *Pul'vis cinnamómi compos'itus.*	Gr. 5. .10. . .
F. *Spir'itus cinnamómi.*	M. 60. .240.
G. *Tinctúra cinnamómi.*	M. 30. .240.
H. *Tinctúra cinnamómi compos'ita.*	M. 20. .180.
11. *Corian'drum.*	Gr. 20. .60.
12. A. *Cumínum,*	Gr. 20. .60.
B. *Emplas'trum cumíni.*	
13? A. *Decoc'tum verátri.*	
B. *Unguen'tum verátri.*	
14. *Emplástrum pícis compos'itum.*	
15. *Euphor'biae resína.*	
16. A. *Lavan'dula.*	Gr. 20. .60.
B. *O'leum lavan'dulae.*	M. 1. .5.
C. *Spir'itus lavan'dulae.*	M. 60. .240.
D. *Spir'itus lavan'dulae compos'itus.*	M. 30. .240.
17. A. *Laúri bac'cae.*	Gr. 10. .30.

B. *Laúri fólia.* Gr. 10. .30.

18. A. *Limónum cor'tex.*

B. *Limónum óleum.*

19. A. *Lyt'ta.* Toti di Fajano. 8. Pis. 1793. Gr. ½. .3.

B. *Tinctúra lyt'tae.* M. 30. .120.

20 ? *Mas'tiche.* Gr. 10. .30.

21. A. *Men'tha piperíta.* Gr. 10. .60.

B. *A'qua men'thae piperítae.* Fl. ʒ ii. .iv.

C. *O'leum men'thae piperítae.* M. 1. .3.

D. *Spir'itus men'thae piperítae.* M. 60. .240.

22. A. *Men'tha vir'idis.* Gr. 10. .60.

B. *A'qua men'thae vir'idis.* Fl. ʒ ii. .iv.

C. *O'leum men'thae vir'idis.* M. 2. .5.

D. *Spir'itus men'thae vir'idis.* M. 60. .240.

23. *Mezéreum.* Leroy, 1765. Engel. 1781. Gr. 1. .10.

24. A. *Myris'tica.* Gr. 5. .20.

B. *Spir'itus myris'ticae.* M. 60. .240.

25. A. *Orig'anum.*

B. *O'leum orig'ani.* M. 1. .3.

26. *Petróleum.* Peirce, Dunc. med. comm. XVI. 372; lepra. M. 10. .30.

27. A. *Pimen'ta.* Gr. 5. .20.

B. *A'qua pimen'tae.* Fl. ʒ ii .iv.

C. *O'leum pimen'tae.* M. 2. .5.

D. *Spir'itus pimen'tae.* M. 60. .240.

28. *Píper lon'gum.* Gr. 4. .20.

29. *Píper nígrum.* Gr. 4. .20.

30. *Por'rum.* Succus. M. 60. .240.

31. A. *Pulégium.* Gr. 10. .60.

B. *A'qua pulégii.* Fl. ʒ ii. .iv.

C. *O'leum pulégii.* M. 1. .5.

D. *Spir'itus pulégii.* M. 60. .240.

32. *Sápo.* Gr. 5. .30.

33. A. *Sinápis.* Gr. 20. .60.

D. *Cataplas'ma sinápis.*

34. A. *Terebin'thinae o'leum.* Stedman, Ed. med. ess. II. 45; two drachms produced strangury. About a drop is contained in a drachm of gin. See Godfr. misc. ver. ut. 29. M. 10..40.

B. *Linimen'tum terebin'thinae.*

35. *Toxicoden'dron.* Alderson on toxicodendron. 8. Hull, 1804; Dunc. med. comm. XX. 32. Gr. 2..15.

36 ? A. *Unguen'tum sul'furis.*

B. *Unguen'tum sul'furis compos'itum.*

37. A. *Zin'giber.* Gr. 5..30.

B. *Syrúpus zingib'eris.* M. 60..180.

C. *Tinctúra zingib'eris.* M. 30, .180.

† Acetum, 27.
Acidum nitricum, 27.
Aerugo ? 25.
Aetherea, 13.
Anethum, 21.
Anisum, 21.
Arsenicum, 5.
Borax, 25.
Calx, 5.
Canella, 18.
Cascarilla, 28.
Digitalis ? 22.
Emplastrum galbani, 11.
Emplastrum picis compositum, 12.
Foeniculum, 18.
Galbanum, 11.
Hydrargyri nitricooxydium, 25.
Hydrargyri oxymurias, 16.
Liquor potassae, 7.
Lytta, 12.
Mel boracis ? 25.
Oleum succini, 11.
Pix liquida ? 25.
Pyrethrum, 16.
Rosmarinus, 11.
Sabina, 23.
Senega ? 17.
Sodae murias ? 6.
Spiritus rectificatus, 13.
Tabacum, 29.
Terebinthina, 25.
Terebinthinae oleum, 12.
Vinum, 13.

(Acidum aceticum concentratum. Amyris. Anagallis. Anemone nemorosa. Anemone pratensis. Angelica. Apii semina. Arum recens. Baritae murias ? Bellis ? Bubon. Cassia lignea, Cepa. Chelidonium. Clematis flammula. Cochlearia. Conval-

laria. Cubeba. Curcuma vulgaris. Electricitas. Bohadsch de utilitate electrisationis; Watson, Phil. trans. 1752. 345. Bianchini sur la médecine électrique; Watson, Phil. trans. 1752. 399. Hart, Phil. trans. 1754. 788; Brydone, 1757, 392, 1758, 695; Franklin, 481. Saunders, Med. comm. Ed. III. 394. Mauduyt, M. Soc. R. méd. I. 461. II. 199. IV. 264. V. 160. Cavallo on medical electricity. 8. Lond. 1780; Lond. med. journ. I. 246. Ledru Rapport sur l'électricité médicale. 8. Par. 1783; Lond. med. journ. V. 59. Kühn Geschichte der medicinischen electricität. Bock Beyträge. Bertholon. Deiman von der wirkungen der electricität. 1793. Arnem. arzneim. II. 277. Cuthbertson's practical electricity. 8. Lond. 1806. Electricitas galvanica. Mengiardini, Soc. di Genova; Ed. med. journ. III. 29. Herholdt und Rafn vom Perkinismus, von Tode. 8. Copenh. 1798. Haygarth on the imagination. 8. Bath, 1801. Eruca. Eryngium. Euphorbia. Galanga? Hyssopus? Inula? Ladanum. Levisticum. Marum. Melissa. Meloe. Mentha aquatica, crispa. Mithridatium. Heberden on mithridatium and theriaca. 8. Lond. 1745. Nigella. Origanum dictamnus. Pechurim. Petroselini semina. Petroselini radix? Phellandrium. Phosphorus? Hufeland, Dunc. ann. 1799. 269. Phytolacca. Ranunculus acris. Rhus radicans. Fresnoy; Dunc. med. comm. XVII. 120. Sabadilla. Staphisagria. Scordium. Sedum acre. Tacamahaca, popul. balsam. Tanacetum? Theriaca, Heberden. Thermae 110°. Urtica. Winterae cortex. Zedoaria.)

XIII. CALEFACIENTS.

Increasing the action of the heart.

1. A. *Aether rectificátus.* Morris, Med. obs. inq. II. 176. Lavoisier, M. Soc. R. méd. IV. 426; overrates its volatility; at the same time in the heat of fever it may have some tendency to expand. Tickell, Lond. med. journ. VI. 337. Davidson, Med. facts. V. 68; for spasms and intermittents. M. 30..120.

B. *Spir'itus aétheris aromat'icus.* M. 30..60.

C. *Spir'itus aétheris compos'itus.* M. 30..60.

D. *Spir'itus aétheris sulfúrici.* M. 30..60.

2. *Spir'itus aétheris nit'rici.* Lassone, M. Soc. R. méd. V. 56. M. 30..60.

3. *Spir'itus vinósus.*

4. *Vinum.* Wainman de vino. 8. Ed. 1772; Smellie thes. III. 269. * Brande, Phil. trans. 1811. 337; strong wines are half as strong as brandy.

† Absinthium, 18.
Acidum nitricum, 27.
Allium, 12.
Ammoniacum, 17.
Anthemis, 18.
Armoracia, 12.
Aurantii cortex, 18.
Balsamum Peruvianum, 28.
Balsamum Tolutanum, 17.
Belladonna? 19.
Benzoinum? 17.
Cinchona, 28.
Cinnamomum, 12.
Crocus? 11.
Dauci semina? 21.
Ferrum? 28.
Guaiacum, 14.
Lavandula, 12.
Mezereum, 12.
Moschus, 29.
Myristica, 12.
Myrrha, 28.
Oleum succini, 11.
Opium, 29.
Pix liquida, 25.
Ruta, 18.
Sassafras, 14.
Scilla, 22.

Senega, 17.
Serpentaria, 28.
Styrax, 17.
Terebinthina Canadensis, 25.
Terebinthinae oleum, 12.
Uva ursi ? 27.

† Excitants and sudorifics in general.

(Agaricus muscarius. Arnica. Artemisia? Centaurea benedicta. Chrysanthum, Rhododendron. Guthrie, Med. comm. Ed. V. 434. Curcuma? Dianthus? Foenum Graecum. Galanga. Grana paradisi. Hypericum? Imperatoria. Inula? Liquidambar. Lobelia? Parietaria. Scabiosa succisa? Serpyllum. Thymus vulgaris. Vanilla. Urtica? Winterae cortex.)

XIV. SUDORIFICS.

Promoting the secretion of the skin.

1. A. *Aconítum.* Störck de stramonio. Kausch erfahr. Gr. 1. .5.
   B. *Extrac'tum aconíti.* Gr. 1. .5.
2. A. *Contrayer'va.* Gr. 10. .30.
   B. *Pulvis contrayer'vae compos'itus.* Gr. 15. .30.
3. A. *Dulcamára.* Hallenberg de dulcamara. 4. Ups.; Med. comm. Ed. III. 15. Gr. 20. .60.
   B. *Decoc'tum dulcamárae.* Fl. ℥ ss. .ii.
4. A. *Guaíacum.* Gr. 10. .30.
   B. *Mistúra guaíaci.* Fl. ℥ ss. .ii.
   C. *Tinctúra guaíaci.* M. 30. .120.
   D. *Tinctúra guaíaci ammoniáta.* M. 60. .240.
5. *Líquor ammóniae acetátis.* M. 120. .360.
6. A. *Sarsaparil'la.* Gr. 20. .60.
   B. *Decoc'tum sarsaparil'lae.* Fl. ℥ iv. .viii.
   C. *Decoc'tum sarsaparil'lae compos'itum.* Fl. ℥ iv. .viii.
   D. *Extrac'tum sarsaparil'lae.* Gr. 10. 30.
7. *Sas'safras.* Gr. 20. .60.

†Acetum, 27.
Acidum nitricum? 27.
Allium, 12.
Ammonia, 12.
Ammoniacum, 17.
Anisum? 21.
Anthemis? 18.
Antimonium, 19.
Asarum, 15.
Assafoetida, 11.
Belladonna, 29.
Camphora, 11.
Caryophylli, 12.
Ferrum? 28.
Helleborus niger, 20.
Hydrargyrum, 16.
Ipecacuanha, 19. Gr. ½..2.
Juniperus, 22.
Linimentum ammoniae, 12.
Magnesiae sulfas, 20.
Mezereum, 12.
Minyanthes? 28.
Moschus, 29.
Myrrha, 28.
Opium, 29.
Oxymel simplex? 8.
Petroleum? 12.
Pix liquida, 25.
Potassae nitras, 27.
Potassae sulfuretum? 7.
Potassae supertartras? 20.
Pulvis ipecacuanhae compositus, 29.
Sambuci flores? 27.
Senega, 17.
Serpentaria, 28.
Spiritus aetheris nitrici, 22.
Sulfur, 20.
Tabacum, 29.
Terebinthinae oleum, 12.
Tussilago? 8.
Vinum ipecacuanhae, 29.
M. 10..40.
Ulmus? 28.

† Calefacients in general.

(Abrotonum? Ammoniae sulfuretum? Aquae sulfureae, Aqua frigida vel calida. Arctii radix? Aristolóchia trilobata. Dioscorides writes *ἀριστολοχία*, Nicander, who is no very high authority, *ἀριστολόχεια*, for the sake of his verse; and for a similar reason only we have "aristolochia secatur" in a Latin line. Asphaltum? Astragalus exscapus? Bismuthum? Cardamine? Centaurea benedicta. China. Chrysanthum. Clematis flammula. Fumaria. Hydrargyri subsulfas. Hydrargyri sulfuretum nigrum? Imperatoria. Juglans?? Lacerta. Römer über eidechsen. 8. Leipz. 1788. Lactuca virosa. Levisticum.

Oleum animale. Oxygenium? Pimpinella saxifraga. Potassae sulfuretum? Salvia? Sambuci baccae? Rob? Santonicum? Saponaria? Serum lactis sinapinum, vinosum. Thermae. Vincetoxicum. Zincum?)

XV. ERRHINES.

Promoting secretion in the nostrils.

1. *As'arum.*	(Gr. 10. .20.)
2. *Verátrum.*	Gr. 2. .5.

†Hydrargyri submurias?	Saccharum?
Lavandula?	Tabacum.
Origanum?	Zinci sulfas.
Rosmarinus?	

(Convallariae flores. Hydrargyri subsulfas; Gr. ¼, glycyrrh. gr. 2, Ware. Majorana? Marum. Nigella. Ptarmica. Sabadilla.)

XVI. SIALAGOGUES.

Promoting a flow of saliva.

1. A. *Hydrar'gyrum.* This orthography is more classical, as well as more chemical, than hydrargyrus. Hill, Ed. med. ess. IV. 41; half a drachm of cinnabar as a fumigation produced a salivation, which was ultimately fatal. Dennistoun, Ed. phys. ess. I. 390; 24 gr. of the pil. hydr. subm. daily for 6 weeks. Owen de mercurio. 8. Ed. 1757; Smellie thes. II. 427. Barry, Med. trans. I. 125. Pibrac, M. Ac. chir. IV. 143; sublimate; Lassone, 238. Houlston, Lond. med. journ. VI. 271; half a drachm of sublimate taken; Lind, VIII. 43; Underwood, 85; crude mercury; bark seemed to promote

salivation; Corey, 136. Broadbelt, M. Med. soc. Lond. V. 112; deposition in the bones. Reeve, Ed. med. journ. V. 254; horses survived a dose of an ounce of the oxymuriate, and of two drachms of arsenic; but much less doses than this seem to have been lately fatal. Ed. med. journ. VI. 185. Currie on prejudices against mercury. 8. Lond. 1809, 1811. ℥ ss. .iv.

B. *Hydrar'gyri oxyd'ium cinéreum.* Gr. 2. .10.

C. *Hydrar'gyri oxyd'ium rúbrum.* Gr. ½. .2.

D. *Hydrar'gyri oxymúrias.* Gr. ⅛. .½.

E. *Hydrar'gyri submúrias.* "Calomelas," River. arcana. 12. Utr. 1680. Gr. ½. .2.

F. *Hydrar'gyri sulfurétum rúbrum.* Gr. 10. .30.

G. *Hydrar'gyrum cum créta.* Gr. 10. .30.

H. *Hydrar'gyrum praecipitátum al'bum.* Gr. 5. .10.

I. *Líquor hydrar'gyri oxymuriátis.* Gr. 60. .480.

K. *Pil'ulae hydrar'gyri.* Gr. 5. .20.

L. *Pil'ulae hydrar'gyri submuriátis.* Plummer, Ed. med. ess. I. 46. The copaiba, employed for forming these pills, ought to be changed for gum, since it envelopes the substances so much as to lessen their activity. The subcarbonate of iron, made up into pills with copaiba, was given for some weeks without any apparent effect: and a few hours after the same quantity had been given with gum only, the faeces were perfectly black. Y. Gr. 5. .10.

M. *Unguen'tum hydrar'gyri for'tius.* Gr. 30. .120.

N. *Unguen'tum hydrar'gyri mil'ius.* Gr. 30. .120.

2. *Pyr'ethrum.*

† Ammoniacum, 17.
Armoracia, mast. 12.
Belladonna ? 29.
Digitalis, 22.
Linimentum hydrargyri, 26.
Mastiche, 12.
Mezereum, 12.
Zingiber, 12.

(Angelica, mast. Imperatoria, mast. Nigella. Pimpinella, mast. Ptarmica.)

XVII. EXPECTORANTS.

Promoting the bronchial secretion.

1. A. *Ammoníacum.* Gr. 10..30.
   B. *Mistúra ammoníaci.* Fl. ℥ ss. .ii.
2. A. *Bal'samum Tolutánum.* Gr. 10..30.
   B. *Syrúpus Tolutánus.* M. 60..120.
3. A. *Benzóinum, or Benzoínum.* Dryander, Phil. trans. 1787. 307. Gr. 10..30.
   B. *A'cidum benzóicum.* Gr. 10. .30.
   C. *Tinctúra benzóini compos'ita.* M. 30..120.
4. *Marrúbium?* Gr. 20..120.
5. A. *Sen'ega.* Gr. 20..40.
   B. *Decoc'tum sen'egae.* Fl. ℥ ss. .ii.
6. *Sty'rax.* Gr. 10..30.

†Acetum scillae, 22. M. 30..90.
Aetheris vapor, 13.
Allium, 12.
Ammonia, 12.
Anisum, 21.
Antimonium, 19.
Assafoetida, 11.
Colchicum, 22.
Digitalis? 22.
Extractum taraxaci, 26. Gr. 10. .60.
Glycyrrhiza, 8.
Hydrargyrum? 16.
Ipecacuanha, 19.
Lichen? 8.
Mel? 8.
Myrrha, 28.
Oleum sulfuratum? 25. M. 10..30.
Pilulae scillae compositae, 22. Gr. 10. .20.
Potassa, 5.
Scilla exsiccata, 22. Gr. 1..3.
Scilla recens, 22. Gr. 5..15.
Spiritus vapor, 13.
Sulfur, 20.
Tabaci fumus, 29.
Tinctura scillae, 22. M. 10..60.
Tussilago, 8.

† Most emetics.

(Arnica. Arum. Basilium. Ocimum. Centaurea benedicta? Ceratonia. Cerefolium. Colchicum. Cordia. Foeniculum. Glechoma? Hydrogenium? Hyssopus. Illicium. Lichen pulmonarius. Majorana? Oniscus?? Oxygenium. Pimpinella. Polygala vulgaris. Pulmonaria? Scabiosa arvensis. Verbascum. Veronica. Zizyphus.)

XVIII. STOMACHICS.

Promoting the secretion of the gastric fluid, or improving its quality.

1. *Absin'thium.*	Gr. 20. .60.
2. A. *An'themis.*	Gr. 10. .60.
B. *Extrac'tum anthem'idis.*	Gr. 10. .30.
C. *Infúsum anthem'idis.*	Fl. ʒ i. .iv.
D. *O'leum anthem'idis.*	M. 5. .10.
3. A. *Auran'tii cor'tex.*	
B. *Confec'tio auran'tii.*	Gr. 30. .240.
C. *Infúsum auran'tii compos'itum.*	Fl. ʒ i. .iv.
D. *Tinctúra auran'tii.*	M. 30. .240.
4. A. *Calum'ba.* Percival's essays.	Gr. 10. .20.
B. *Infúsum calum'bae.*	Fl. ʒ i. .iv.
C. *Tinctúra calum'bae.*	M. 30. .240.
5. *Canel'la.*	Gr. 10. .30.
6. *Centaúrium.*	Gr. 15. .60.
7. A. *Foenic'ulum.*	Gr. 20. .60.
B. *A'qua foenic'uli.*	Fl. ʒ ii. .iv.
8. A. *Gentiána.*	Gr. 10. .60.
B. *Extrac'tum gentiánae.*	Gr. 10. .30.
C. *Infúsum gentiánae compos'itum.*	Fl. ʒ i. .iv.

D. *Tinctúra gentiánae compos'ita.* M. 60. .120.

9. A. *Quas'sia.* Ebeling de quassia. 8. Glasg. ; Med. comm. Ed. VI. 367. Lettsom, M. Med. soc. Lond. I. 128. Lindsay, Ed. trans. III. 205 ; Med. facts. V. 140.
Gr. 5. .30.

B. *Infúsum quas'siae.* Fl. ʒ i. .iv.

10. A. *Rúta.* Gr. 15. .40.

B. *Confec'tio rútae.* En.

†Acidum sulfuricum, 27.
Assafoetida, 11.
Calamus, 12.
Carui, 12.
Cascarilla, 28.
Cinnamomum, 12.
Cusparia, 28.
Ipecacuanha, 19.
Limonis cortex ? 12.
Menthae, 12.
Sinapis ? 12.
Sodae murias, 6.
Spiritus rectificatus, 13.
Vinum, 13.

(Absinthium maritimum. Acoroidis resina. Artemisia pontica. Bismuthum, Odier, Journ. méd. LXVII ; Lond. med. journ. VII. 321. Marcet, M. Med. soc. Lond. VI. 155. Centaurea benedicta. Cerevisia " porter "? Fel ? Galanga. Gentiana Pannonica. Ginseng, Heberden, Med. trans. III. 34. Marrubium. Marum. Matricaria chamomilla. Mentha aquatilis, crispa. Millefolium. Pareira. Parthenium. Pechurim. Pimpinella saxifraga. Rheum undulatum. Salvia. Tanacetum ? Virga aurea. Winterae cortex ? Zedoaria.)

XIX. EMETICS.

Fothergill de emeticorum usu 8. Ed. 1736; Smellie thes. I. 153. Balguy, Ed. med. ess. IV. 33; unimportant. Neumann neglectus emeticorum vindicatus. 8. Prag. 1781.

1. *Antimónium.* Walker, Ed. phys. ess. II. 254; soporific effect of antimonial wine. Geoffroy, Phil. trans. 1751. 273; vitrum antimonii ceratum; Huxham, 1754. 832. Huxham on antimony. 8. Lond. 1755. Faucke de solutione antimonii in diversis vinis. 8. Vienn. 1767. Fourcroy, M. Soc. R. méd. IV. 248; chermes mineral. Kausch erfahr.; antimonii calx sulf. Hofm.

   A. *Antimónii oxyd'ium.* Sud. Gr. 1. .10.

   B. *Antimónii sulfurétum.* Sud. Gr. 10. .30.

   C. *Antimónii sulfurétum praecipitátum.* Sud. Gr. 1. .5.

   D. *Antimónium tartarizátum.* Lassone, M. Soc. R. méd. I. 371; Caille, III. 520. Höpfner über die bereitung des brechweinsteins. 8. Weim. 1782. Small, Med. obs. inq. VI. 209; modified by bark; especially by the powder, but without acquiring any very remarkable virtues. Y. Blizard, Lond. med. journ. VIII. 57; for fungous sores; Blackburne, IX. 61; large dose. Sherwin, M. Med. soc. Lond. II. 386; absorption. Bradley, 247; externally; also Hutchinson, V. 81.
   Em. Gr. 1. .3.
   Sud. Gr. ¼. .½.

   E. *Líquor antimónii tartarizáti.* Em. M. 180. .480.
   Sud. M. 15. .90.

   F. *Pul'vis antimoniális.* Pearson, Phil. trans. 1791. 317; James's powder. Gr. 5. .10.

2. *Cúpri sul'fas.* Gr. 5. .15.

3. *Ipecacuan'ha.* Pye, Med. obs. inq. I. 240; small doses. Lassone and Cornette, M. Soc. R. méd. III. 512. Irving,

Dunc. med. comm. X. 340. Daubenton on indigestion. Decandolle, Bulletin des sciences, n. 64; Ed. med. journ. I. 103. Gr. 5. .30.

B. *Vinum ipecacuan'hae.* M. 120. .480.

† Ammoniae carbonas, 12.
Anthemis, 18.
Asarum, 15.
Minyanthes, 28.
Olivae oleum, 8.
Scilla, 22.
Sinapis, 12.
Tabacum, 29.
Veratrum, 15.
Zinci sulfas, 28. Gr. 15. .30.

(Aqua tepida. Boletus laricis. Centaurea benedicta. Chrysanthum. Ebulus. Euphorbium. Gratiola. Hydrargyri subsulfas. Platini oxydium, Gr. 2. Zinci acetas, Gr. 5. .10.)

XX. CATHARTICS.

Causing alvine excretion.

Balguy, Ed. med. ess. IV. 33. Rotheram medicamina purgantia. 4. Ups. 1775; amara, acria, styptica, acida, dulcia. Daubenton, M. Soc. R. méd. IV. 256; for sheep. * Hamilton on purgative medicines. 8. Ed. 1805; Ed. med. journ. II. 97, 452; Morgan, III. 144; Cheyne, IV. 310; much theory.

† Aceti enema, 27.
Alumen? 27.
Ammoniacum, 17.
Anthemis, 18.
Antimonium, 19.
Argenti nitras, 5.
Asarum, 15.
Cinchonae, 28.
Dauci radix, 25.
Decoctum hordei? 8.
Gentiana, 18.
Guaiacum, 14.
Magnesiae carbonas, 7. Gr. 30. .120.
Magnesia usta, 7. Gr. 30. .60.
Malva? 8.
Marrubium? 17.
Mel, 8.

Minyanthes ? 28.
Morus, 27.
Olivae oleum, 8.
Pilulae hydrargyri, 16.
Saccharum, 8.
Sapo, 12.
Sinapis, 12.
Tabacum, 29.
Tamarindus, 27.
Taraxacum, 26.
Terebinthinae enema, 25.
Tinctura benzoini composita, 17.
Toxicodendron, 12.

(Aquae purgantes. Arctii radix? Argenti phosphas, Gr. 1. .2. Asparagus ? Baritae murias ? Betonica ? Boletus laricis. Borago. Bryoniae extractum. Carthamus. Cerefolium. Chrysanthum. Cichorium. Convolvulus turpethum. Copaiba ? Daucisemina. Ebuli cortex int. Enema aeris, Ockel de aere in primis viis. Hall. 1790. Enema aquae. Eryngium ? Eupatorium. Euphorbium. Farmeria. Fel. Gratiola, Kostrzewski. 8. Vienn.; Med. comm. Ed. VI. 141. Jacea. Lactuca virosa. Lepidium. Lobelia ? Mays ? Mechoacanha, Convolvulus Americanus. Mellassa. Mercurialis. Ova cruda ? Persicae flores. Prunus spinosa. Pseudacori succus recens. Psyllium. Rheum undulatum. Sapo. Sambuci cortex, germina, rob. Scorzonera ? Serum lactis. Suppositoria. Terebinthinae enema. Triticum repens. Vitrum antimonii. Uva. Xanthoxyli radicis succus, M. Med. soc. Lond. V.)

CHOLAGOGUES ?

1 ? A. *Rhéum.* Hope, Phil. trans. 1765. 290. Sir W. Fordyce on the culture of rhubarb. 8. 1792.	Gr. 10. .40.
B. *Extrac'tum rhéi.*	Gr. 10. .30.
C. *Infúsum rhéi.*	Fl. ʒ i. .iv.
D. *Tinctúra rhéi.*	Fl. ʒ ss. .i ss.
E. *Tinctúra rhéi compos'ita.*	Fl. ʒ ss. .i ss.

† * Hydrargyri submurias, 16. Gr. 2. .5.
Ipecacuanha ? 19.

HYDRAGOGUES?

2. A. *Elatérium.*
   B. *Extrac'tum elatérii.* Gr. ½..3.
3. A. *Jalápa.* Gr. 10. .30.
   B. *Extrac'tum jalápae.* Gr. 10. .20.
   C. *Tinctúra jalápae.* Gr. 60. .240.
4. *Magnésiae sul'fas.* Gr. 60. .480.
5. *Potas'sae sul'fas.* Gr. 60. .240.
6. *Potas'sae supertar'tras.* Bergius; Med. comm. Ed. I. 243; "very soluble with ¼ of borax." Gr. 60. .480.
7. *Potas'sae tar'tras.* Gr. 60. .480.
8. *Sódae sul'fas.* Gr. 60. .480.
9. *Sóda tartarizáta.* A very pleasant and salutary purgative draught may be made, by putting 2½ drachms of the crystallized subcarbonate of soda, with three drachms of crystals of tartar, and half a pint of water, into a stone bottle, and letting them remain well corked for a few days. Y. Gr. 60. .480.

† Potassae acetas, 22.
Potassae nitras, 27.
Sodae murias, 6. ℥ ss. .i.
Spartium, 22.

(Iridis palustris radicis succus, Ramsay, Ed. Med. ess. V. 93. Sodae phosphas; weak and uncertain. Pearson, Lond. med. journ. IX. 393.)

SIMPLY PROPELLENTS.

10. A. *Al'oe spicáta.* Gr. 3. .15.
   B. *Decoc'tum al'oes compos'itum.* Fl. ℥ ss. .ii.
   C. *Extrac'tum al'oes.* Gr. 5. .15.
   D. *Pil'ulae al'oes compos'itae.* Gr. 10. .20.
   E. *Pil'ulae al'oes cum myr'rha.* Gr. 10. .20.
   F. *Pul'vis al'oes compos'itus.* Gr. 10. .20.

G. *Tinctúra al'oes.* Fl. ʒ ss. .i.
H. *Tinctúra al'oes compos'ita.* M. 30. .120.
I. *Vínum al'oes.* Fl. ʒ ss. .i.
11. *Al'oe vulgáris.* Millington, Lond. med. journ. VIII. 422. Gr. 3. .15.
12. A. *Cambógia.* Murray, Comm. Gott. IX.; Dunc. med. comm. XIV. 180. Gr. 2. .10.
B. *Pil'ulae cambógiae compos'itae.* Gr. 5. .20.
13. *Car'ica.*
14. A. *Cas'sia.* ʒ ss. .i.
B. *Confec'tio cas'siae.* Gr. 60. .180.
15. A. *Colocyn'this.* Gr. 1. .5.
B. *Extrac'tum colocyn'thidis.* Gr. 5. .30.
C. *Extrac'tum colocyn'thidis compos'itum.* Gr. 5. .30.
16. *Línum cathar'ticum.* Gr. 30. .60.
17. *Man'na.* Cirillo, Phil. trans. 1770. 233. ʒ ss. .ii.
18. *Prúnus.*
19. A. *Rham'nus.* Gr. 60. .120.
B. *Syrúpus rham'ni.* M. 60. .120.
20. *Ric'ini óleum.* Canvane on castor oil. 8. Lond. Fraser, Med. obs. inq. II. 235. M. 60. .480.
21. A ? *Rósa centifólia.* Gr. 20. .60.
B. *Syrúpus rósae.* M. 60. .120.
22. A. *Scammónia.* Σκαμμωνία, Dioscor. Russel, Med. obs. inq. I. 12. Gr. 5. .20.
B. *Confec'tio scammóniae.* Gr. 30. .120.
C. *Pul'vis scammóniae compos'itus.* Gr. 10. .20.
23. A. *Sen'na.* Gr. 20. .60.
B. *Confec'tio sen'nae.* Gr. 30. .240.
C. *Infúsum sen'nae.* Fl. ʒ i. .iv.
D. *Pul'vis sen'nae compos'itus.* Gr. 20. .60.
E. *Syrúpus sen'nae.* M. 120. .480...
F. *Tinctúra sen'nae.* M. 120. .480.
24. A. *Sul'fur lótum.* Gr. 30. .120.
B. *Sul'fur praecipitátum.* Generally adulterated with sul-

fate of lime, by the employment of lime and sulfuric acid in making it. Y. Gr. 30. .120.

25. *Viola?*

ANTHELMINTHICS.

26. *Dol'ichos.* Gr. 5. .10.
27. *Filix mas.* Gr. 60. .240.
28. *Helleb'orus foet'idus.* Gr. 10. .30.
29. A. *Helleb'orus níger.* Gr. 10. .30.
B. *Tinctúra helleb'ori nígri.* M. 30. .60.
30. *Spigélia.* Gr. 10. .40.
31. *Stan'num.* Gr. 60. .240.
32. *Staphiságria.* Gr. 3. .10.

†Absinthium? 18.
Allium, 12.
Ammonia? 12.
Ammoniae murias, 26.
Anthemis, 18.
Assafoetida, 11.
Camphora, 11.
Confectio rutae, 18. En.
Ferrum, 28.
Hydrargyri submurias, 16.
Hydrargyri sulfuretum, 16.
Linimentum camphorae, 26. En.
Liquor calcis, 7. En.
Magnesia, 7.
Petroleum, 12.
Sodae murias, 6.
Sulfur, Prop.
Tabacum, 29.
Terebinthinae oleum. Fl. ʒ i. .ii.
Valeriana, 11.
Veratrum, 15.

(Aquae sulfureae. Cepa, Chenopodium. Conferva dichotoma. Dictamnus, Geoffroea? Bondt. 8. Leyd.; Duuc. med. comm. XIII. 1. Helminthochortus. Hydrargyri sulfuretum nigrum? Jacobaea. Juglans, folia tosta. Nigella. Pteris. Sabadilla. Santonicum. Spigelia. Tabacum. Tanacetum.)

XXI. CARMINATIVES.

Promoting the excretion of flatulence.

1. A. *Anéthum.*	Gr. 10. .60.
B. *A'qua anéthi.*	Fl. ʒ ii. .iv.
2. A. *Anísum.*	Gr. 10. .60.
B. *O'leum anísi.*	M. 3. .15.
C. *Spir'itus anísi.*	M. 30. .240.
3. *Daúci sem'ina.*	Gr. 20. .60.

† Ammoniacum, 17.
Anthemis, 18.
Assafoetida, 11.
Aurantii cortex, 18.
Cajuputi, 12.
Calamus, 12.
Carui, 12.
Cinnamomum, 12.
Coriandrum, 12.
Cusparia, 28.
Emplastrum cumini, 12.
Juniperus, 22.
Menthae, 12.
Pulegium, 12.
Spiritus aetheris compositus, 13.
Spiritus aetheris nitrici, 22.
Tinctura sennae, 20.
Zingiber, 12.

† Excitants in general.

(Chamomilla. Chenopodium. Emplastrum ladani compositum? Foeniculum. Illicium. Imperatoria. Levisticum. Mentha aquatilis, crispa. Petroselini semina. Salvia.)

XXII. DIURETICS.

1. A. *Col'chicum.* Störck. 8. Vienn. 1763. Gr. 1. .5.
   B. *Acétum col'chici.* M. 30. .90.
2. *Copáiba.* M. 20. .60.
3. A. *Digitális.* Darwin, Med. trans. III. 255; dropsy and consumption; Baker, 287, 449. Withering on foxglove. 8. Birm. 1785; Lond. med. journ. VI. 298; Dunc. med. comm. X. 133. Beddoes, Med. facts. V. 17; effects relieved by opium. W. Currie, M. Med. soc. Lond. IV. 10. Ferriar on digitalis. 12. Manch. 1799; Dunc. ann. 1799. 505, 1800. 146. Baildon, Ed. med. journ. III. 270; pulse reduced to 40 in the horizontal posture, but becoming 100 on standing up. W. Hamilton on digitalis. 8. Lond. 1807; Ed. med. journ. IV. 215. Sanders on consumption and digitalis. 8. Ed. 1808; Ed. med. journ. IV. 314; primarily calefacient. Gr. ½. .3.
   B. *Infúsum digitális.* Fl. ℥ ss. .ii.
   C. *Tinctúra digitális.* M. 10. .40.
4. A. *Junip'eri bac'cae.* Gr. 30. .60.
   B. *O'leum junip'eri.* M. 2. .10.
   C. *Spir'itus junip'eri compos'itus.* M. 60. .240.
5. A. *Potas'sae acétas.* Fothergill, Ed. med. ess. V. 177. Gr. 20. .30. . .
6. A. *Scil'la exsiccáta.* Gr. 1. .3.
   B. *Scil'la récens.* Gr. 2. .5.
   C. *Acétum scil'lae.* M. 30. .90.
   D. *Ox'ymel scil'lae.* M. 30. .120.
   E. *Pil'ulae scil'lae compos'itae.* Gr. 10. .20.
   F. *Tinctúra scil'lae.* M. 10. .60.
7. *Spar'tium.* Gr. 20. .60.
8. *Spir'itus aétheris nit'rici.* M. 30. .60.

†Acetosa ? 27.
Acetum, 27.
Acidum nitricum, 27.
Aconitum ? 14.
Allium, 12.
Ammoniacum, 17.
Asarum, 15.
Belladonna ? 29.
Borax, 25.
Cambogia, 20.
Dauci semina ? 21.
Guaiacum ? 14.
Helleborus niger, 20.
Hydrargyri oxymurias, 16.
Hydrargyri submurias, 16.
Jalapa, 20.
Infusum armoraciae compositum, 12.
Liquor ammoniae acetatis, 14.
Lytta, 12.
Marrubium, 17.
Mezereum ? 12.
Olibanum, 25.
Pix liquida, 25.
Potassae carbonas, 5.
Potassae nitras, 27.
Potassae supertartras, 20.
Sarsaparilla, 14.
Sassafras, 14.
Senega ? 17.
Serpentaria, 28.
Sinapis, 12.
Sodae carbonas, 7.
Tabacum, 29. Fowler.
Taraxacum, 26.
Terebinthina, 25. Gr. 20. .60.
Terebinthinae oleum, 12. M. 10. .30.
Tinctura ferri muriati, 28.
Ulmus, 28.
Uva ursi ? 27.

† Saline cathartics in general, with other diuretics.

(Acidum carbonicum. Alkekengi. Anemone pratensis. Apium graveolens ? Aquae alcalinae. Aqua laurocerasi ? Aqua tepida. Arctii radix. Arctii semina. Aristolochia clematitis, longa, rotunda. Armoracia. Asparagus ? Astragalus exscapus ? Betulae succus. Bryoniae extractum. Calcis murias. Cardamine ? Cepa. Cerefolium. Cerevisia pini. Chelidonium. Cichorium. Cinara. Clematis flammula. Cochlearia. Digitalis epiglottis. Dulcamara. Ebulus. Eryngium. Erysimum. Eupatorium. Fraga ? Fumaria. Humulus. Hydrargyri vapor ? Illicium. Imperatoria. Lac asininum. Lactuca virosa. Laurocerasus. Ledum. Linaria. Lobelia. Lytta. Meloe. Mercurialis. Me-

sembryanthemum crystallinum, Leib, Dunc. med. comm. XII. 135. Nasturtium aquaticum. Oniscus? Ononis. Opobalsamum. Pareira. Petroselini radix? Pimpinella saxifraga. Porrum. Serpyllum. Serum lactis. Sium? Solanum nigrum. Terebinthina Veneta, Pinus larix. Thymus vulgaris. Vanilla. Ulmus. Urtica? Uva.)

XXIII. EMMENAGOGUES.

1. *Rúbia.* Gr. 30..60.
2. *Sabína.* Gr. 10..30.

†Allium? 12.
Aloe, 20.
Ammonia? 12.
Ammoniacum? 17.
Anthemis? 18.
Asarum? 15.
Assafoetida, 11.
Borax? 25.
Castoreum, 11.
Crocus, 11.
Dulcamara, 14.
Ferrum, 28.
Galbanum, 11.
Helleborus niger, 20.
Hydrargyri submurias, 16.
Hydrargyrum, 16.
Marrubium, 17.
Myrrha, 28.
Oleum succini, 11.
Opopanax, 11.
Pulegium, 12.
Rheum, 20.
Rosmarinus? 11.
Ruta? 18.
Sagapenum, 11.

(Aristolochia clematitis, longa, rotunda. Arnica. Bryonia. Chamaedrys. Electricitas, 12. Pulvis myrrhae compositus, Ph. 1787. Serpyllum. Sium? Tanacetum? Thymus vulgaris. Tinctura sabinae composita, Ph. 1787.)

XXIV. EPISPASTICS.

Promoting a serous secretion under the cuticle.

Meza de vesicantibus. 8. Copenh.; Med. comm. Ed. IV. 300. Tralles de usu vesicantium. 2 v. 4. Bresl. 1782-3.

1. A. *Cerátum lyt'tae.*
   B. *Emplas'trum lyt'tae.*

†Mezereum, 12. Sinapis, 12.

† Excitants in general.

(Unguentum antimonii tartarizati, 1 : 8. Unguentum lyttae, Ph. 1787.)

XXV. SUPPURATORIES.

Promoting or modifying suppuration.

Maton on substances from the genus pinus. Lambert pinus. f. Lond.

1. *Abíetis resína.*
2. A. *Aerúgo.* Lawson, Dunc. ann. 1800. 375; of no use to horses in glanders or botts.
   B. *Linimen'tum aerúginis.*
3. A. *Bórax.* Blane and Rovato, Phil. trans. 1787. 297, 301. (Gr. 10..30.)
   B. *Mel borácis.* (Gr. 60..120.)
4. A. *Calamína.*

B. *Cerátum calamínae.*
5. *Cerátum sabínae.*
6. *Cerátum sapónis.*
7. A. *Cerevis'iae fermen'tum.*
B. *Cataplas'ma fermen'ti.*
8. *Daúci rádix.* Gibson, Med. obs. inq. IV. 178.
9. A. *El'emi.*
B. *Unguen'tum elémi compos'itum.*
10. A. *Hydrar'gyri nit'ricooxyd'ium.*
B. *Unguen'tum hydrar'gyri nit'ricooxyd'ii.*
11. *O'leum sulfurátum.*
12. *Olib'anum.* (Gr. 10. .30.)
13. A. *Pix ar'ida.* Burgundy pitch.
B. *Emplas'trum pícis compos'itum.*
C ? *Unguen'tum "pícis ar'idae."* Black pitch.
14. A. *Pix liq'uida.* Berkeley's Siris. 8. Lond. 1744.
B. *Unguen'tum pícis liq'uidae.*
15. A. *Resína fláva.*
B. *Cerátum resínae.*
C. *Emplas'trum resínae.*
16. *Terebin'thina Canaden'sis.* (Gr. 20. .60.)
17. *Terebin'thina Chía.* (Gr. 20. .60.)
18. *Terebin'thina vulgáris.* (Gr. 20. .60.)
19. *Unguen'tum hydrar'gyri nitrátis.*
20. *Unguen'tum hydrar'gyri praecipitáti al'bi.*
21. *Unguen'tum sambúci.*
22. *Unguen'tum zin'ci.*

†Aceti vapor, 27.
Amylum, 8.
Aurantii pulpa assa, 27.
Balsamum Peruvianum, 28.
Belladonna, 29.
Calamus, 12.
Carbo ligni, 6.
Cinchona, 28.
Cupri sulfas, 19.
Cuprum ammoniatum, 28.
Digitalis ? 22.
Gentiana ? 18.
Lauri baccae, 12.
Liquor calcis, 7.
Liquor potassae, 7.
Mel, 8.

Rheum, 20.
Sabina, 23.
Saccharum, 8.
Sambucus, 27.
Serpentaria, 28. Garg.
Tinctura myrrhae, 28.
Zinci oxydium, 28.
Zinci sulfas, 28.

(Acidum phosphoricum. Alnus? Bolus? Dracaena? Hypericum. Juglans, Hunczovsky. Liquor gastricus? Sénébier. Germ. 8. Mannh. 1785. Opobalsamum? Verbena? Veronica? Unguentum hydrargyri nitratis saturatae, Haygarth; hydr. 1, ac. nitr. 1, butyr. 8, camph. 1. Xanthoxylum, Chamberlaine and Henry, M. Med. soc. Lond. V. 40.)

XXVI. SORBEFACIENTS.

Promoting absorption.

1. *Ammóniae múrias.* Gr. 10. .30.
2. A. *Emplas'trum ammoníaci.*
   B. *Emplas'trum ammoníaci cum hydrar'gyro.*
3. *Emplas'trum hydrar'gyri.*
4. *Fúcus.*
5. A. *Linimen'tum cam'phorae.*
   B. *Linimen'tum cam'phorae compos'itum.*
6. *Linimen'tum hydrar'gyri.*
7. *Linimen'tum sapónis compos'itum.*
8. *Spóngia us'ta.* Gr. 60. .240.
9. A. *Tarax'acum.* Delius de taraxaco. 8. Erl.; Dunc. med. comm. VIII. 35. Gr. 20. .60.
   B. *Extrac'tum tarax'aci.* Gr. 10. .30.

†Acetum, 27.
Acidum nitricum, 27.
Aconitum, 14.
Allium, 12, ext.
Ammoniacum? 17, ext.
Anthemis, 18, ext.
Antimonii sulfuretum, 19.
Armoracia? 12.

Assafoetida? 11.
Belladonna, 29.
Benzoinum, 17.
Borax, 25, ext.
Cajuputi, 12, ext.
Camphora, 11, ext.
Carui, 12, ext.
Cinchona, 28.
Colocynthis, 20.
Conium, 29.
Cuminum, 12, ext.
Digitalis, 22.
Dulcamara, 14.
Ferrum, 28.
Ferrum ammoniatum, 28.
Galbanum, 11, ext.
Guaiacum? 14.
Hydrargyrum, 16.
Juniperus, 22, ext.
Lavandula, 12, ext.
Laurus, 12, ext.
Liquor ammoniae acetatis, 14, ext.
Mentha, 12, ext.
Mezereum, 12, ext.
Myrrha? 23.
Oleum anisi, 21.
Oleum caryophyllorum, 12, ext.
Oleum foeniculi, 18.
Opium, 29, ext.
Petroleum, 12, ext.
Potassa, 5.
Potassae acetas, 22.
Potassae nitras? 27.
Potassae supertartras, 20.
Pulegium, 12, ext.
Rosmarinus, 11, ext.
Sambucus? 21.
Sinapis? 12.
Sapo, 12, ext.
Sodae murias, 6.
Sodae subcarbonas, 7.
Terebinthinae oleum, 12.
Veratrum, 15.

† Most cathartics.

(Absinthium maritimum? ext. Alnus? Arnica. Baritae murias; Crawford, Med. commun. II. 301; Dunc. med. comm. XIV. 433; Clark, XVI. 267; XVII. 466; Mather, XIX. 265; an overdose. Hufeland Gebrauch der salzsauren schwererde. 8. Berl. 1794. Bryoniae radix, ext. Calcis murias. Fourcroy, H. Soc. R. méd. V. 267. R. Pearson, Ed. med. journ. I. 510. Carex. Cerefolium, ext. Chamomilla, ext. Cicuta; Wepfer historia cicutae aquaticae. 4. Bale, 1761; " * * " Haller. Cochlearia? Electricitas, 12. Humulus? Hydrargyri subsulfas.

Hydrargyri sulfuretum nigrum? Hyssopus, ext. Inula, ext. Juglans? Laurocerasus? Lednm. Liquor gastricus, ext.; Carminati. 8. Mil. 1781. Lotae hepar. Majorana, ext. Melilotus? Melissa, ext. Oleum anethi? ext. Oleum cacao? ext. Oleum macis, ext. Oleum myristicae, ext. Origanum, ext. Petroselinum, ext. Phellandrium? Polypodium vulgare? Salvia, ext. Saponaria? Satureia? ext. Scrofularia? Senecio, ext.; Stedman, Ed. med. ess. II. 45. Sonchus? Stramonium. Thymus, ext. Triticum repens.)

XXVII. ASTRINGENTS.

Increasing tonic contraction.

Including refrigerants, which seem to operate principally as astringents.

Scott Byam de administratione antiphlogistica; Webster med. pr. I. 38. See parhaemasiae. Davy on astringent vegetables, Phil. trans. 1803. 233.

1. *Acetósa.*
2. *Acetosel'la.*
3. A. *Acétum.* Worthington de aceto. 8. Ed. 1740; Smellie thes. I. 217. Wirkung der pflanzensäure als äusserliches heilmittel. 8. Leipz. 1791.
   B. *Ac'idum acet'icum.* M. 60. .240.
4. *Ac'idum muriat'icum.* Sir W. Fordyce on muriatic acid in putrid diseases. 8. 1790. Reich. Berl. 1800. Johnstone on mineral acid vapours. 8. 1803. M. 5. .20.
5. *Ac'idum nit'ricum.* Scott, Dunc. ann. 1796. 373. Smyth's experiment. 8. Lond. 1796; Dunc. ann. 1796. 105. Bed-

does's reports. 8. Brist. 1797; Dunc. ann. 1797. 214. Smyth on nitrous vapour. 8. Lond. 1799; Dunc. ann. 1800.

1. Johnstone. M. 1..10.

B. *Ac'idum nit'ricum dilútum*, $\frac{1}{10}$. M. 10..40...

6. A. *Ac'idum sulfúricum*. Lucas, Ed. med. ess. V. 189. Cornette, M. Soc. R. méd. III. 188; acid soaps.

B. *Ac'idum sulfúricum dilútum*, $\frac{1}{10}$. M. 10..40.

C. *Potas'sae supersúlfas*. Gr. 20..120.

7. A. *Alúmen*. Thomson, Ed. med. ess. IV. 38; with equal parts of dragon's blood, internally, an excellent styptic. Gr. 10..30.

B. *Líquor alúminis compos'itus*.

8. *Auran'tii fruc'tus*.

9. *Bistor'ta*. Gr. 10..60.

10. A. *Cat'echu*. Kerr, Med. obs. inq. V. 148. Gr. 10..40.

B. *Infúsum cat'echu*. Fl. ℥ i..iv.

C. *Tinctúra cat'echu*. M. 30..240.

11. *Gal'la*.

12. *Granátum*. Gr. 20..60.

13. A. *Haematox'ylum*. Gr. 20..60.

B. *Extrac'tum haematox'yli*. Gr. 10..30.

14. A. *Kíno*. A. Fothergill, M. Med. soc. Lond. II. 93. Vauquelin, Ann. ch. XLVI; Dunc. ann. 1803. 223. Pemb. abd. visc. Gr. 19..30.

B. *Tinctúra kíno*. M. 30..120.

15. A. *Límon*.

B. *Ac'idum cit'ricum*. Contains 20 per cent. of water. Berzelius. Sol. $\frac{4}{5}$ W.; neutralises somewhat more than an equal weight of subcarbonate of potass. Gr. 10..30.

C. *Syrúpus limónis*. M. 60..120.

16. A. *Mórus*.

B. *Syrúpus móri*. M. 60..120.

17. A. *Plum'bi carbónas*. Goulard on lead. 12. 1773. Percival on lead. 12. Lond.; Med. comm. Ed. II. 229. Lilie de plumbo. 8. Ed. 1775; Smellie thes. III. 370. White,

Med. comm. Ed. III. 72; Percival, 199; danger. Schmidt Antigoulard. 8. Vienn. 1786. Aikin on lead.

B. *Plum'bi "superacétas."* Acetas, Berz. Knight, Lond. med. journ. IV. 286; two drachms; caused paralysis, but cured gonorrhoea and relieved syphilis. Gr. ½..2.

C. *Cerátum plum'bi superacetátis.*

18. A. *Plum'bi oxyd'ium semivit'reum.*

B. *Cerátum plum'bi compos'itum.*

C. *Emplas'trum plum'bi.*

D. *Líquor plum'bi "acetátis."* Subacetatis. Berz.

E. *Líquor plum'bi acetátis dilútus.*

19. *Potas'sae nítras.* Falconer, M. Med. soc. Lond. III. 527; haematemesis from 2 ounces. Gr. 10..30...

20. A. *Quer'cus cor'tex.* Gr. 10..30.

B. *Decoc'tum quer'cus.*

21. *Pterocar'pus?*

22. *Rósa canína,* pulpa. Gr. 30..120.

23. A. *Rósa Gal'lica.* M. 20..60.

B. *Infúsum rósae.* Fl. ℥ i..viii.

C. *Confec'tio rósae Gal'licae.* Gr. 60..480.

D. *Mel rósae.* Gr. 60..240.

24. A. *Sambúcus?*

25. A. *Simaroúba.* Wright, Ed. trans. II. 73; Lond. med. journ. XI. 91. Gr. 10..30.

B. *Infúsum simaroúbae.* Fl. ℥ i..iv.

26. *Tamarin'dus.* Gr. 30..120.

27. *Tormentil'la.* Gr. 10..30.

28. *U'va ur'si.* Gr. 10..60.

†Aerugo? 25.
Ammoniae murias, 26.
Aqua rosae, 11.
Calamina? 25.
Capsicum? 12.
Cinchona, 28.
Cupri sulfas, 19.
Ferri sulfas, 28.
Hydrargyri oxymurias? 16.
Potassae acetas, 22.
Pulvis kino compositus, 29.
Rheum, 20.

Saccharum? 8.
Salix, 28.
Sodae murias, 6.
Spiritus rectificatus, 13.
Terebinthinae oleum, 12.
Zinci sulfas, 28.

(Acidum carbonicum; Percival's essays. Percival, Med. comm. Ed. V. 170. Falconer on aqua mephitica. 8. Lond.; Dunc. med. comm. XVII. 87. Acidum phosphoricum. Acoroidis resina. Alcea? Aqua infra 45°, int. Aquifolium. Balaustia. Beccabunga. Berberis. Bismuthum. Bolus. Bromelia? Brunella. Cerasus. Cochlearia? Cynoglossum? Cynomorium. Erysimum? Dracaena draco. Eupatorium. Euphrasia? Fagopyrum. Formica? Fraga. Fraxini cortex. Schreger. 4. Leipz.; Dunc. med. comm. XVIII. 159. Geum rivale. Geum urbanum. Gummi Gambiense. Fothergill, Med. obs. inq. I. 358. Hippocastanum. Horminum. Hypocistis, Cytisus. Juglans. Lacca. Lichen? Lythrum. Malum. Myrobalanus. Myrtillus. Nasturtium? Oryza? Oxycoccos. Passulae minores. Pechurim. Pentaphyllum. Plantago media. Potentilla. Prunus spinosa. Pterocarpus draco? Rhatania; Reece on rhatany. 12. Lond. 1808; Ed. med. journ. IV. 504. Rheum rhaponticum. Ribes nigrum. Ribes rubrum. Ribis rob. Rubus arcticus, caesius, chamaemorus, fruticosus, idaeus. Rumex acutus. Salix alba, pentandra, fragilis, vitellina. Scolopendrium. Sempervivum. Swieteniae cortex. Symphytum. Tutia. Vitis idaea. Uva.)

2. *PRODUCING PERMANENT INCREASE OF ACTION AND OF POWER.*

XXVIII. TONICS.

1. *Bal'samum Peruviánum.* Gr. 10..30.
2. *Cardamíne.* Nicander has Helxíne. Baker, Med. trans. I. 442. Gr. 20..60.
3. A. *Cascaril'la.* Gr. 10..60.
   B. *Infúsum cascaril'lae.* Fl. ℥ i..iv.
   C. *Tinctúra cascaril'lae.* M. 30..240.
4. *Cinchóna.* Torti ad Ramazzinum de china china. 4. Mod. 1715. Monro, Ed. med. ess. V. 98. Fordyce, Med. obs. inq. I. 184; Pye, II. 245; externally. Pulteney de cinchona. 8. Ed. 1764; Smellie thes. III. 1. Lee, Phil. trans. 1766. 95; Percival, 1767. 221. Heberden, Med. trans. I. 470; if an astringent. Wright, Phil. trans. 1777. 504. Saunders on red bark. 8. Lond. 1782. Lond. med. journ. III. 249; Dunc. med. comm. VIII. 167. Davidson, Phil. trans. 1784. 452. Baker, Med. trans. III. 141. Ruiz. Collingwood, Dunc. med. comm. X. 265. Skeete on bark. 8. Lond.; Lond. med. journ. VII. 254; Dunc. med. comm. XII. 232; magnesia promoting the solubility of pale bark. Irving on bark. 8. Ed.; Dunc. med. comm. XII. 257. Irving, Lond. med. journ. VII. 419; Skeete, VIII. 75. Kentish on the bark of St. Lucia. 8. Lond. 1784; Dunc. med. comm. XII. 277. Saunders, Lond. med. journ. XI. 67; an extract. Römer über die peruvianische rinde. 8. Alt. 1792. Lindsay, Ed. trans. III. 205; Med. facts. V. 140; cinchona brachycarpa. Vaughan on yellow bark. 8. 1795. Relph on yellow bark. 8. Lond.; Dunc. med. comm. XX. 17. Germ. by Fries. 8. Bresl. 1797. Lambert on cinchona. 4. Lond. 1797. Marabelli on the yellow bark. Germ. by Titius. 8. Leipz. 1797. Seguin, Bullet. des sciences, n. 77; Dunc. ann. 1893. 240. A. Duncan, Nich. Journ. VI; Dunc. ann.

1803. 253. Fabbroni ricerche sulla quina; Ed. med. journ. II. 333. Humboldt, 485. Gr. 10. .90.

A. *Cinchóna lancifólia.* Pale.

B. *Decoc'tum cinchónae.* Fl. ʒ i. .iv.

C. *Extrac'tum cinchónae.* Gr. 10. .30.

D. *Extrac'tum cinchónae resinósum.* Gr. 10. .30.

E. *Infúsum cinchónae.* Fl. ʒ i. .iv.

F. *Tinctúra cinchónae.* M. 60. .240.

G. *Tinctúra cinchónae compos'ita.* M. 60. .240.

H. *Cinchóna cordifólia.* Yellow.

I. *Cinchóna oblongifólia.* Red.

5. A. *Cúprum ammoniátum.* Odier, Med. comm. Ed. III. 191. Gr. ½. .5.

B. *Líquor cúpri ammoniáti.* M. 60. .300.

6. A. *Cuspária.* Ewer and Williams, Lond. med. journ. X. 154, 158; Brande, XI. 38; Wilkinson, 331. Wilkinson, Med. facts. II. 52. Meyer über die angusturarinde. 8. Gott. 1793. Lettsom, M. Med. soc. Lond. IV. 191. Brande on angustura bark. 8. Lond.; Dunc. med. comm. XX. 197. Winterbottom, Med. facts. VII. 41. Gr. 10. .60.

B. *Infúsum cuspáriae.* Fl. ʒ i. .iv.

7. A. *Fer'rum.* Wright de ferro. 8. Ed. 1753; Smellie thes. II. 133. Gr. 5. .10.

B. *Fer'rum ammoniátum.* Gr. 3. .15.

C. *Fer'ri "carbónas."* Gr. 2. .60.

D. *Fer'ri sul'fas.* Gr. 1. .5.

E. *Fer'rum tartarizátum.* Gr. 5. .20.

F. *Líquor fer'ri alkalíni.* Words in inus, expressive of the nature of a substance, have not the penultimate short, unless they are Greek. Leeds in Labb. erud. pron. Aurinus, Cisternus, Funginus. At the same time, in words derived from the Arabic, the pronunciation may follow either the Greek or the Latin form without impropriety. M. 30. .60.

G. *Mistúra fer'ri compos'ita.* Fl. ʒ i. .iv.

H. *Pil'ulae fer'ri cum myr'rha.* Gr. 10. .20.

I. *Tinctúra fer'ri ammoniáti.* M. 30. .120.

K. *Tinctúra fer'ri muriátis.* M. 10. .30.

L. *Vínum ferˈri.* M. 60. .720.

8. *Láquor arsenicális.* M. 5. .15.

9. *Minyanˈthes.* Μιννανθὲς, Nicand. Gr. 20. .60.

10. A. *Myrˈrha.* Bruce, Phil. trans. 1775. 408. Gr. 10. .60.

B. *Tinctúra myrˈrhae.* M. 30. .120.

11. *Sálix.* Günz de cortice salicis. 8. Leipz. 1787. Wilkinson on the willow bark. 8. Newc. 1803; Dunc. ann. 1803. 231. Gr. 10. .60.

12. A. *Serpentária.* Gr. 10. .30.

B. *Tinctúra serpentáriae.* M. 30. .120.

13. A. *Ulˈmus.* Adee, Med. trans. II. 203. Collingwood, Dunc. med. comm. XVI. 281. Gr. 20. .60.

B. *Decocˈtum ulˈmi.* Fl. ℥ iv. .viii.

14. A. *Zinˈci oxydˈium.* Goodsir, Med. comm. Ed. I. 422; Percival, II. 309; Odier, III. 191; Percival, V. 166. Dunc. med. comm. XIII. 414; an ounce and a half weekly had no effect: the precipitates supposed more active. Gr. 3. .20. . .

B. *Zinˈci sulˈfas.* Gr. 1. .5.

†Absinthium, 18.
Acidum nitricum, 27.
Acidum sulfuricum, 27.
Aconitum? 14.
Allium, 12.
Alumen, 27.
Anthemis, 18.
Ammonia, 12.
Ammoniacum, 17.
Argenti nitras, 5. Gr. ½. .5. . .
Armoracia? 12, partial.
Arsenicum, 5. Gr. $\frac{1}{10}$. .¼.
Assafoetida, 11.
Aurantii cortex? 18.
Balsamum tolutanum, 17.
Cajuputi oleum, 12, partial.
Calumba, 18.
Capsicum, 12.
Cinnamomum, 12.
Contrajerva, 14.
Copaiba, 22, partial.
Cupri sulfas, 19. Gr. 1. .5.
Dulcamara? 14.
Gentiana, 18.
Guaiacum, 4.
Lichen, 8.
Limon? 27.
Lytta, 12, partial.
Marrubium, 17.
Mezereum, 12, partial.
Oleum rosmarini, 11, partial.
Oleum succini, 11.
Opium, 29.
Petroleum, 12.
Quassia, 18.
Rheum, 20.

Rubia, 23.
Sarsaparilla, 14.
Senega, 17.
Simarouba, 27.
Sinapis, 12.
Spiritus rectificatus? 13.
Terebinthina, 25, partial.
Terebinthinae oleum, 12, partial.
Toxicodendron, 12, partial.
Valeriana? 11.
Uva ursi, 27.

† Expergefacients in general act as partial tonics, with respect to the nerves.

† Stomachics in general.

(Acidum sulfuricum aromaticum, Ph. Ed. Acidum phosphoricum? Acoroidis resina; Kite, M. Med. soc. Lond. IV. 24; stomachic. Aqua, 45°. .60°, hausta. Aquifolium. Arnica. Collin de arnica. 4. Vienn.; Med. comm. Ed. V. 233. Meza de arnica emmenagogo; Dunc. med. comm. XII. 380. Crichton, Lond. med, journ. X. 229. Kausch erfahr. Arum? Baritae carbonas? Beccabunga. Brucea antidysenterica. Calcis murias? Centaurea benedicta. Chamaedrys. Chaemaepitys. Chrysanthemum. Cichorium. Cortex Managuensis. Sproat, Dunc. ann. 1803. 403. Curcuma? Dictamnus. Fel? Fumaria. Geum rivale, urbanum. Buchhave, Act. med. Havn.; Dunc. med. comm. XIV. 43. Ginseng, Sium sisarum. Glechoma. Hippocastanum, trunci cortex. Turra. Cusson, Dunc. med. comm. XVII. 125. Horminum. Intybus? Juglans. Lamium. Loranthus, Viscum quercinum. Lythrum salicaria. Mahagoni cortex. Millefolium. Nux vomica. Oleum animale, partial. Oleum lauri baccarum, partial. Oxygenium? Pareira? partial. Polygala amara, vulgaris. Populus balsamea, Tacamahaca. Pulmonaria. Rumex aquaticus. Salix alba, pentandra, fragilis, vitellina. Salvia. Stanni nitromurias? Hatchett. Swietenia febrifuga. Roxburgh, Med. facts. VI. 127. Duncan de Swietenia soymida. 8. Ed. 1794. Tanacetum? Vinum Lusitanicum. Viscum album, partial. Colbatch on misletoe. 8. Lond. 1720. Urtica? Winterae cortex. Fothergill, Med. obs. inq. V. 41; Morris, 56.)

c DIMINISHING THE POWER OF ACTION OR OF SENSATION.

1. *PRIMARILY.*

XXIX. NARCOTICS.

Causing sleep.

1. *Belladon'na.* Graham, Med. comm. Ed. I. 419; root as a poultice, sorbefacient and suppuratory. Münch von der belladonna. 8. Gott. 1785. Dunc. med. comm. XII. 137. Buchhave de belladonna. Act. med. Havn. II; Dunc. med. comm. XVII. 128. Gr. ½..5.

B. *Extrac'tum belladon'nae.* Gr. 1..5.

2? *Coc'cus.* Gr. 5..20.

3. A. *Conium.* Störck de cicuta. 8. Vienn. 1760-1. Lond. 1761. Watson, Phil. trans. 1761. 89. Colebrook, 1763. 346; Morris, 1764. 172. Haen. Rutty, Med. obs. inq. III. 229. Fothergill, 400; Farr, IV. 91. Hooper, M. Med. soc. Lond. II. 328. Gr. 2..20.

B. *Extrac'tum conii.* Gr. 5..20...

4. A. *Húmulus.* Freake on the hop. 8. Lond. Ed. med. journ. III. 351. Gr. 10..30.

B. *Extrac'tum húmuli.* Gr. 5..20.

C. *Tinctúra húmuli.* M. 30..120.

5. A. *Hyoscy'amus.* Stedman, Phil. trans. 1751. 194; as a poison. Störck. Barton, Dunc. med. comm. XII. 399.

B. *Extrac'tum hyoscy'ami.* Gr. 5..20...

C. *Tinctúra hysocy'ami.* M. 10..60.

6. A. *Mos'chus.* Tralles de moscho. 8. Bresl. 1783. Gr. 2..20.

B. *Mistúra mos'chi.* Fl. ℥ ss. .ii.

7. A. *O'pium.* Alston, Ed. med. ess. V. 110. Whytt, Ed. phys. ess. II. 280. Tralles de opio. 4 v. 4. Bresl. 1757-62. G. Young. Kerr, Med. obs. inq. V. 317; culture. Bucquet, M. Soc. R. méd. I. 399; analysis; Lorry, II. 155. Leigh on opium. 8. Ed.; Dunc. med. comm. XI. 397; gummy and resinous portions. Brandish, Lond. med. journ. VII. 135; slow effect. Lassone, M. Soc. R. méd. V. 48; preparation by long or repeated boiling. Wilson, Ed. trans. IV. H. 18. Crumpe on opium. 8. 1794. Ball, Soc. Arts. 1796; Dunc. ann. 1796. 414; English. Josse, Rec. pér. 1796; Dunc. ann. 1798. 259; preparation. Chiarugi sull' uso esterno dell' opio. 8. Tur. 1797; Dunc. ann. 1798. 194. Cassels, Ed. med. journ. I. 508; black drop.

Gr. $\frac{1}{2}$. .5.

B. *Confec'tio ópii* ($\frac{1}{30}$). Gr. 10. .60.

C. *Emplas'trum ópii.*

D. *Extrac'tum ópii.* Gr. $\frac{1}{2}$. .5.

E. *Pil'ulae sapónis cum ópio* ($\frac{1}{5}$). Gr. 3. .10.

F. *Pul'vis cor'nu us'ti cum ópio* ($\frac{1}{10}$). Gr. 5. 20.

G. *Pul'vis crétae compos'itus cum ópio* ($\frac{1}{40}$). Gr. 20. .40.

H. *Pul'vis ipecacuan'hae compos'itus* ($\frac{1}{10}$). Dover's dose was from 40 to 70 grains. Gr. 5. .30.

I. *Pul'vis kíno compos'itus* ($\frac{1}{20}$). Gr. 5. .20.

K. *Tinctúra cam'phorae compos'ita.* M. 30. .240.

L. *Tinctúra ópii* ($\frac{1}{13}$). M. 10. .30.

M. *Vínum ópii* ($\frac{1}{10}$). M. 10. .40.

8. A. *Papáver.* Arnot, Ed. med. ess. V. 105; extr. and syr.

B. *Decoc'tum papav'eris.*

C. *Extrac'tum papav'eris.* Gr. 2. .20.

D. *Syrúpus papav'eris.* M. 60. .480.

9. A. *Rhoéas.*

B. *Syrúpus rhoéadis.* M. 60. .240.

10. A. *Tab'acum.* Stedman, Ed. med. ess. II. 45; ext. Bisset, Dunc. med. comm. VIII. 370; chewing. Schäffer Taschenbuch für wundärtze. 1784; smoke clyster. Fowler

on tobacco. 8. Lond. 1785; Lond. med. journ. VI. 185; Dunc. med. comm. X. 122.

B. *Infúsum tab'aci.* En. Fl. ʒ viii. .xii.

†Aconitum, 14.
Antimonium tartarizatum, 19, ext.? Med. Phys. Journ.
Camphora, 11.
Digitalis, 22.
Dulcamara, 14.
Spiritus rectificatus, 13.
Toxicodendron, 12.
Vaeri ana, 11.
Vinum, 12.

(Arnica? Balsamum Asiaticum. M. 5..15. Hayg. Calor modicus. Cannabis? Cerasi nigri aqua. Cerevisia, "porter." Chrysanthum? Cicuta? Ebulus. Frigus summum. Humulus. Jacea. Lactuca. Laurocerasus. Nux vomica. Sium? Solanum nigrum. Spigelia. * Stramonium, fumus. Swaine, Ed. phys. ess. II. 247. Störck de stramonio, hyoscyamo, aconito. 8. Vienn. 1762-5. Wedenberg de stramonio. 4. Ups.; Med. comm. Ed. II. 18. Tilia? Xanthoxylum.)

XXX. SEDATIVES.

Easing pain.

Frequently antispasmodic as well as anodyne.

†Absinthium, 18.
Aconitum, 14.
Aetherea, 13.
Ammonia, 12.
Ammoniacum, 17.
Ammoniae murias, 26.
Anthemis, 18.
Argenti nitras? 5.
Assafoetida, 11.
Benzoinum, 17.
Cajuputi, 12.
Calamina, 25.
Camphora, 11.
Cardamine, 28.
Castoreum, 11.
Cinchona, 28.
Conium, 29.
Crocus, 11.
Cuprum ammoniatum, 28.
Digitalis, 22.

Galbanum, 11.
Hydrargyrum? 16.
Hyoscyamus, 29.
Ipecacuanha, 19.
Limon? 27.
Mentha piperita? 12.
Moschus, 29.
Oleum succini, 11.
Opium, 29.
Petroleum, 12.
Ruta, 18.
Soda, 7.
Spiritus aetheris nitrici, 22.
Tabacum, 29.
Valeriana, 11.
Terebinthinae oleum, 12.
Vinum, 13.
Zinci oxydium, 28.

† Narcotics in general; astringents or refrigerants frequently.

(Acidum carbonicum. Ammoniae hydrotheas sulfurata. Artemisia. Aurantii folia. Bismuthi oxydium. Chamomilla? Fuligo? Hydrogenium. Narcissus. Oleum animale. Paeonia. Tanacetum?)

XXXI. NAUSEANTS.

Debilitating by their immediate effect on the stomach.

† Digitalis, 22.

† Emetics, especially Antimonium, Ipecacuanha, Scilla, when given in doses short of producing an emetic effect, belong to this class, and are often important in fevers and haemorrhages.

XXXII. DIAPHORETICS.

Debilitating and producing perspiration, rather by relaxation of the exhalants than by any increase of the powers of circulation. The distinction is, however, almost superfluous.

† Most emetics: perhaps not the sulfate of zinc.

2. *DIMINISHING ACTION SECONDARILY.*

XXXIII. EXHAURIENTS.

† Camphora? 11.
Capsicum? 12.
Hydrargyrum? 16, Hunter.
Lytta? 12.
Mentha? 12.
Oleum cinnamomi? 12. Tooth ache.
Oleum terebinthinae, 12. Burns.
Sinapis? 12.
Spiritus aetheris nitrici? 22.
Tabacum? 29.

† Expergefacients, excitants and calefacients, acting as narcotics and sedatives.

(Aqua laurocerasi. Rogers, Medicoch. tr. 1. Thea; to some narcotic. Y.)

INSENSIBLE AGENTS.

XXXIV. SPECIFICS.

Curing diseases without any perceptible connexion between the immediate effect and the benefit obtained.

Every thing relating to such medicines must be arranged under the particular diseases which they are adapted to relieve.

American dispensatory.

† Dyspepsia. (Aqua Bathonica.)
Podagra. (* Aqua medicinalis. Aquifolium? Chrysanthum?)
Lithiasis. Uva ursi? 27.
Phtharma ossium. (Sodae phosphas? This might be called a nutrient.)
Carcinoma. Belladonna?? (Onopordum?? Phytolacca??)
Apostema cariosum, Ulcus cariosum. Conium? 29. (Acidum phosphoricum. Lentin.)
Epiphymata. Minyanthes? Pix liquida. Ulmus. (Baritae murias. Betulae succus. Hydrargyri acetas.)
Scabies. Unguentum sulfuris, 12. Unguentum veratri, 12.
Syphilis. Hydrargyrum, 16. (China? Diervilla?)
Scorbutus. * Acidum citricum, 27. (Cochlearia??)

IV.

CHEMICAL TABLES.

A. *TABLES OF SIMPLE AFFINITY,*

AND OF

SOLUBILITY IN WATER AT 60° F.

The substances inclosed in parentheses are inserted in their respective places in order to avoid inconsequences among the simple affinities. The numbers marked with asteriscs may be employed for the determination of double decompositions: those which are inclosed in parentheses are inconsistent with the corrected order of simple elective attractions. See Phil. trans. 1809.

S. Soluble.
L. Little soluble.
I. Insoluble.
H. Boiling hot.

It must be remembered that a substance, less weakly attracted by another than a third, will sometimes precipitate this third from its combination with the second, where a supersalt or subsalt is readily formed: thus the oxyd of lead decomposes the muriate of soda, forming a submuriate of lead; the tartaric acid decomposes all the salts of potass, forming supertartrate of potass; and the carbonic the subacetate of lead, leaving the acetate. A saline draught also, consisting of the acetate of ammonia, is decomposed and made pungent by the addition of pure magnesia, which stands below ammonia in the order of elective attractions, the magnesia probably forming a triple acetate with one part of the ammonia, and setting the rest at liberty.

BARITA.	Attr.	Sol.
		20 (2 H.)
Sulfuric acid	1000*	43000
Oxalic	950	I?
Succinic	930	L.
" Fluoric"		
Phosphoric	906*	I.
Mucic	900	I.
Nitric	849*	12
Muriatic	840*	3
Suberic	800	L.
" Citric"		
Tartaric	760	L.
Arsenic	733½	I.
(Citric)	730	L.
Lactic	729	
(Fluoric)	706*	L.
Benzoic	597	(See Sebates).
Acetic	594	1⅛
Boracic	(515)*	I.
Sulfurous	592*	I.
Nitrous	450	
Carbonic	420*	4300
Prussic s.	400	

Phosphite L, Hyperoxymuriate S, Chromate I, Tungstate I, Mellate I, Malate L, Sebate of Thénard, which, according to Berzelius, is always a Benzoate, S, Camphorate I?

STRONTIA.	Attr.	Sol.
		50 (2½ H.)
Sulfuric acid	903*	L. (3840 H.)
Phosphoric	827*	I.
Oxalic	825	1920
Tartaric	757	320
" Fluoric"		
Nitric	754*	1
Muriatic	748*	⅔
(Succinic)	740	
Fluoric	703*	
Succinic		
Citric?	618	L.
Lactic	603	
Sulfurous	527*	I.
Acetic		
Arsenic	(733¼)	I.
Boracic	513*	L.
(Acetic)	480	2½†
	116?	
Nitrous?	430	
Carbonic	419*	I. (1540 H.)

Hyperoxymuriate S, Malate S, Sebate S.

	POTASS.		SODA.		LIME.	
	Attr.	Solub.	Attr.	Solub.	Attr.	Solub.
Sulfuric acid	894*	16, supers.5	885*	$2\frac{2}{3}$	Oxalic acid 960	I.
Nitric	812*	7	804*	3	Sulfuric 868*	500
Muriatic	804*	3	797*	$2\frac{14}{17}$	Tartaric 867	I.
Phosphoric	801*	S.	795*	4	Succinic 866	I.
Suberic ?	745	S.	740	S.	Phosphoric 865*	I.
Fluoric	671*	S.	666*	S.	Mucic 160	I.
Oxalic	650	supero. 10	645	S.	Nitric 741*	$\frac{1}{4}$
Tartaric	616	1, sup. 60	611	1	Muriatic 736*	$\frac{1}{2}$
Arsenic	614	S.	609	S.	Suberic 735	
Succinic	612	S.	607	S.	Fluoric 734*	I.
Citric	610	S.	605	$1\frac{2}{3}$	Arsenic $733\frac{3}{4}$	I.
Lactic	609		604		*Lactic* 732	
Benzoic	608		603		Citric 731	L.
Sulfurous	488*	1	484*	4	Malic 700	
Acetic	486	$\frac{1}{2}$	482	$2\frac{4}{5}$	Benzoic 590	
Mucic	484	8	480	5	*Acetic*	
Boracic	482*	S.	479*	subb.12	Boracic 537*	L.
Nitrous	440		437		Sulfurous 516*	800
Carbonic	306*	4	304*	2	(Acetic) 470	S.
Prussic s.	300		298		Nitrous 425	
					Carbonic 423*	I.
					Prussic s. 290	

Phosphite 3, Hyperoxymuriate 17, Chromate S, Molybdate S, Tungstate S, Columbate S. This acid is supposed, by Ekeberg, to be the tungstic, present in an ore of tantalium. Berz. Kem. II. 105. Mellate S, Malate S, Sebate S, Moroxylate S, Camphorate 100, Gallotannate olive.

Phosphite 2, Hyperoxymuriate S, Chromate S, Molybdate S, Tungstate 4, Mellate S, Malate S, Sebate S, Moroxylate S, Camphorate 100, Gallotannate olive.

Phosphite I, Hyperoxymuriate S, Chromate S, Molybdate I, Tungstate I? Mellate I, Malate L, Sebate S, Camphorate 200.

MAGNESIA.

	Attr.	Solub.
Oxalic acid	820	I.
" Phosphoric"		
Sulfuric	810*	1
(Phosphoric)	736*	15
Fluoric		
Arsenic	733	
Mucic	732½	I.
Succinic	732¼	S.
Nitric	732*	1
Muriatic	728*	1
Suberic?	700	S.
(Fluoric)	620*	I.
Tartaric	618	I.
Citric	615	
Malic?	600?	
Lactic	575	
Benzoic	560	
Acetic		
Boracic	459*	I.
Sulfurous	439*	20
(Acetic)	430	S.
Nitrous	410	
Carbonic	366*	48
Prussic s.	280	

Phosphite sol. 400, Hyperoxymuriate S, Molybdate S, Tungstate S, Mellate I, Malate S, Gallotannate dirty yellow.

AMMONIA.

	Attr.	Solub.
Sulfuric acid	808*	2
Nitric	731*	2 (A-Magn. 11)
Muriatic	729*	3
Phosphoric	728*	4
Suberic? First?	720	S.
Fluoric	613*	S.
Oxalic	611	S.
Tartaric	609	S.
Arsenic	607	S.
Succinic	605	S.
Citric	603	S.
Lactic	601	
Benzoic	599	
Sulfurous	433*	1
Acetic	432	S.
Mucic	431	S.
Boracic	430*	S.
Nitrous	400	
Carbonic	339*	4
Prussic s.	270	

Phosphite 2, Hyperoxymuriate S, Molybdate S, Mellate S, Malate S, Sebate S, Moroxylate S, Camphorate 100.

	GLYCINA?		ALUMINA.		ZIRCONIA?	
	Attr.	Solub.	Attr.	Solub.	Attr.	Solub.
Sulfuric acid	718*	S.	709*	S.	700*	
Nitric	642*	S.	634*	S.	626*	S.
Muriatic	639*	S.	632*	S.	625*	S.
Oxalic	600	1	594	S.	588	
Arsenic	580		575	I.	570	
Suberic?	535		530	S.	525	
Fluoric	534*		529*	S.	524*	
Tartaric	520		515	S.	510	
Succinic	510	I.	505		500	
Mucic	425		420		415	
Citric	415		410		405	
Phosphoric	(648)*	I.	(642)*	I.	(636)*	
Lactic	410		405		400	
Benzoic	400		395		390	
Acetic	395	S.	391	S.	387	S.
Boracic	388*		385*	I.	382*	
Sulfurous	355*		351*	I.	347*	
Nitrous	340		336		332	
Carbonic	325*	I.	323*	I.	321*	
Prussic s.	260		258		256	

Camphorate sol. 200, Hydrotheate S?	Phosphite S, Hyperoxymuriate S, Tungstate I, Mellate I, Malate L, Gallate S, greenish, Gallotannate I, dirty yellow, Hydrotheate none?	Hydrotheate none?

OXYD OF ANTIMONY.	Solub.	OXYD OF ZINC.	Solub.	OXYD OF TIN.	Solub.
Gallic semiacid	I, wht.	Gallic semiacid	S?	Gallic semiacid	S?
Muriatic acid	S.	Oxalic acid		(Tartaric acid?)	
Benzoic		Sulfuric	2¼	Muriatic	
Oxalic	L.	Muriatic	S.	Sulfuric	S.
Sulfuric	L.	Mucic		Oxalic	S.
Nitric		Nitric	S.	Tartaric	S.
Tartaric	S.	Tartaric	L.	Arsenic	I.
Mucic		Phosphoric	S.	Phosphoric	I.
Phosphoric	S.	Citric	L.	Nitric	S.
Citric		Succinic	S.	Succinic	S.
Succinic	S.	Fluoric	S.	Fluoric	S.
Fluoric		Arsenic	I.	Mucic	
Arsenic	I.	Lactic		Citric	
Lactic		Acetic	S.	Lactic	
Acetic	S.	Boracic	I.	Acetic	S.
Boracic	I.	Prussic s.		Boracic	I.
Prussic s.		Carbonic a.		Prussic s.	
(Potass)		(Potass)		(Ammonia)	
(Soda)		(Soda)			
(Ammonia)		(Ammonia)			

Sulfite I, Molybdate I, Gallotannate I, white, Hydrotheate? I, orange.

Sulfite S, Chromate I, Molybdate I, Tungstate I, Malate S, Gallotannate S? Hydrotheate I, white.

Sulfite S, Gallotannate I, brown; Hydrotheate I, brown black, Oxyhydrotheate, yellow.

OXYD OF IRON.

	Solub.		Solub.		Solub.
Gallic and gallotannic semiacid blue, with hyperoxyd black.	S?	Mucic	S.	Succinic	S.
		Muriatic	S.	Citric	S.
		Nitric	S.	Lactic	
Oxalic	S.	Phosphoric	I.	Acetic	S.
Tartaric	S.	oxyph.	1500	Boracic	I.
Camphoric		Arsenic	I.	Prussic s.	I.
Sulfuric	2¾	Fluoric	S.	Carbonic	I.

Sulfite S, Hyperoxymuriate S, Chromate I, Molybdate I, Tungstate I, (Columbate I,) Mellate I, Malate S, Suberate S, Hydrotheate I? black.

OXYD OF COPPER.

	Solub.
Gallic semiacid	I. brown.
Oxalic acid	L.
Tartaric	S.
Muriatic	S.
Sulfuric	4
Mucic	S.
Nitric	S.
Arsenic	S?
Phosphoric	I.
Succinic	
Fluoric	S.
Citric	S.
Lactic	
Acetic	S.
Boracic	L.
Prussic s.	
Carbonic	I.
(Potass)	
(Soda)	
(Ammonia)	
(Oils)	

Sulfite S, Hyperoxymuriate S, Chromate I, Molybdate I, Tungstate I, Mellate L, Malate S, Sebate S, Suberate S, Gallotannate S, olive, Hydrotheate I, black.

OXYD OF ARSENIC.

	Solub.
Gallic semiacid	S?
Muriatic acid	S.
Oxalic	S.
Sulfuric	L.
Nitric	S.
Tartaric	S.
Phosphoric	L.
Fluoric	L.
Succinic	
Citric	
Acetic	S.
Prussic s.	
(Potass)	
(Soda)	
(Ammonia)	
(Oils)	
(Water)	

Borate L, Gallotannate S? Hydrotheate S? yellow.

OXYD OF SILVER.

	Solub.
Gallic and gallotannic semiacids	I. yell. br.
Muriatic acid 3072	
Oxalic	L.
Sulfuric	L.
Mucic	I.
Phosphoric	I.
Sulfurous	L.
Nitric	S.
Arsenic	I.
Fluoric	I.
Tartaric	S.
Citric	I.
Lactic	
Succinic	S.
Acetic	S.
Prussic s.	
Carbonic	I.
(Ammonia)	

Phosphite I, Hyperoxymuriate S, Borate I, Chromate I, Molybdate I, Mellate S, Malate L, Hydrotheate I, black.

OXYD OF LEAD.

	Solub.
Gallic and gallotannic semi-acids	I, white.
Sulfuric acid	1200
Mucic	I.
Oxalic	L.
Arsenic	I.
Tartaric	I.
Phosphoric	I.
Muriatic	22
Sulfurous	I.
Suberic	I.
Nitric	S.
Fluoric	I.
Citric	L.
Malic	
Succinic	L.
Lactic	
Acetic	$3\frac{2}{3}$
Benzoic	
Boracic	I.
Prussic s.	
Carbonic	I.
(Oils)	
(Ammonia)	

Chromate I, Molybdate I, Tungstate I, Mellate L, Malate I, Hydrotheate I, black.

OXYD OF GOLD.

	Solub.
Gallic and gallotannic semi-acids?	I. met.
Muriatic acid	S.
Nitric	S.
Sulfuric	S.
Arsenic	
Fluoric	
Tartaric	
Phosphoric	
Acetic	"S."
Prussic s.	
(Ammonia)	

Hydrotheate I black, with met.

OXYD OF MERCURY.

	Solub.
Gallic semiacid I or. yell.	
Muriatic acid ox.	20
Subm.	1152
Oxalic	L.
Succinic	S.
Arsenic	I.
Phosphoric	I.
Sulfuric	500
Suboxys.	2000
Mucic	I.
Tartaric	I.
Citric	L.
Malic	
Sulfurous	
Nitric	S.
Fluoric	I.
Acetic	S.
Benzoic	
Boracic	I.
Prussic s.	
Carbonic a.	I.

Chromate L, Molybdate L, Tungstate I, Mellate I, Malate I, Gallotannate I, yellow, Hydrotheate I, black.

OXYD OF PLATINA.

	Solub.
Gallic and gallotannic semi-acids	S?
Muriatic acid	500
Nitric	S.
Sulfuric	S.
Arsenic	
Fluoric	
Tartaric	
Phosphoric	
Oxalic	S.
Citric	
Acetic	"S."
Succinic	
Prussic	
Carbonic	
(Ammonia)	

Hydrotheate I, black, with met.

OXYD OF CHROMIUM.

Acetate S? Gallotannate I, brown, Hydrotheate I, green.

OXYD OF TELLURIUM.

Sulfate S, Nitrate S, Muriate S? Acetate S? Gallotannate yellow, Hydrotheate black?

OXYD OF URANIUM.

Sulfate S, Phosphite L? Nitrate S, Muriate S, Fluate S, Arseniate S, Molybdate L. Tungstate I, Acetate S, Tartrate L, Gallotannate chocolate, Hydrotheate? I, brown yellow.

OXYD OF MANGANESE.

Sulfate S, Phosphate L, Nitrate S, Muriate S, Fluate L, Borate L, Carbonate I, Molybdate I, Acetate S, Oxalate I, Tartrate S, Succinate S, Gallate S? Hydrotheate S? white.

OXYD OF MOLYBDAENUM.

Sulfate S, Phosphate S, Nitrate S, Muriate S, Fluate S, Borate I, Acetate S, Oxalate S, Tartrate S, Succinate S, Hydrotheate I, red brown.

OXYD OF COBALT.

Sulfate S, Phosphate S. Nitrate S, Muriate S, Fluate S, Borate L, Acetate S, Tartrate S, Gallate S, Arseniate S? Gallotannate I, yellowish white, Hydrotheate I? black.

OXYD OF NICKEL.

Sulfate S, Sulfite S, Phosphate L, Nitrate S, Muriate S, Fluate S, Borate L, Carbonate I, Arseniate S, Molybdate I, Acetate S, Gallate I, white, Gallotannate I, grey, Hydrotheate I? black.

OXYD OF BISMUTH.

Sulfate L, Sulfite S, Phosphate S, Nitrate S, Muriate S, Fluate I, Borate I, Molybdate I, Acetate S, Oxalate L, Tartrate I, Succinate S, Gallate I, orange, Gallotannate I, orange, Hydrotheate I, black.

OXYD OF RHODIUM.

Nitrate S, Acetate S? Hydrotheate S.

OXYD OF PALLADIUM.

Sulfate S, Nitrate S, Muriate S, Arseniate I, Acetate S? Hydrotheate I, brown black.

OXYD OF TUNGSTEN.

Arseniate S? Acetate S, Gallotannate I, straw coloured.

OXYD OF IRIDIUM.

Gallotannate S, colourless.

OXYD OF OSMIUM.

Gallotannate I, blue.

OXYD OF TITANIUM.

Sulfate S, Phosphate I, Nitrate S, Muriate S, Carbonate I, Arseniate I, Acetate S? Oxalate L, Tartrate L, Gallotannate I, red brown, Hydrotheate I, bottle green.

OXYD OF COLUMBIUM.

Gallotannate I, orange, Hydrotheate I, chocolate.

OXYD OF CERIUM.

Sulfate S, Sulfite S, Phosphate I, Nitrate S, Muriate I, Arseniate I, Molybdate I, Acetate S, Oxalate I, Tartrate I, Citrate S? Succinate L, Prussiate I, white, Gallate S, Gallotannate S, Hydrotheate I? brown.

ITRIA.

Sulfate, attr. 712? sol. 50, Phosphate I, Nitrate S, Muriate S, Carbonate I, Arseniate I, Acetate S, Tartrate S? Mucate I, Succinate L, Hydrotheate S?

SILICA.

Muriate S, if hot, I.

SULFURIC ACID.		NITRIC ACID.		MURIATIC ACID.		PHOSPHORIC ACID.	
Barita	1000*	Barita	849*	Barita	849*	Barita	906*
Strontia	903*	Potass	812*	Potass	804*	Strontia	827*
Potass	894*	Soda	804*	Soda	797*	*Lime*	(865)*
Soda	888*	Strontia	754*	Strontia	748*	Potass	801*
Lime	868*	Lime	741*	Lime	736*	Soda	795*
Magnesia	810*	Magnesia	732*	Ammonia	729*	*Ammonia*	(728)*
Ammonia	808*	Ammonia	731*	Magnesia	728*	Magnesia	736*
Glycina	718*	Glycina	642*	Glycina	639*	Glycina	648*
Stria	712	Alumina	634*	Alumina	632*	Alumina	642*
Alumina	709*	Zirconia	626*	Zirconia	625*	Zirconia	636*
Zirconia	700*	Metallic oxyds.		Metallic oxyds.		Metallic oxyds, Silica	
Metallic oxyds.							

FLUORIC ACID.		OXALIC AND TARTARIC ACID.			ARSENIC ACID.	
Lime	734*	Lime	960	867	Lime	733¾
Barita	706*	Barita	950	760	Barita	733½
Strontia	703*	Strontia	825	757	Strontia	733¼
Magnesia	(620)*	Magnesia	820	618	Magnesia	733
Potass	671*	Potass	650	616	Potass	614
Soda	666*	Soda	645	611	Soda	609
Ammonia	613*	Ammonia	611	609	Ammonia	607
Glycina	534*	Glycina?	600	520	Glycina	580
Alumina	529*	Alumina	594	515	Alumina	575
Zirconia	524*	Zirconia?	588	510	Zirconia	570
Silica		Metallic oxyds.			Silica	

Some of the metallic tartrates are not decomposed by alkalis, nor is the tartrate of alumina. Berz. II. 635.

TUNGSTIC ACID.	SUCCINIC ACID.		SUBERIC ACID.		CAMPHORIC ACID.
Lime	Barita	930	Barita	800	Lime
Barita	Lime	866	Potass	745	Potass
Strontia	Strontia?	740	Soda	740	Soda
Magnesia	(Magnesia)	732¼	Lime	735	Barita
Potass	Potass	612	Ammonia	720	Ammonia
Soda	Soda	607	Magnesia	700	Glycina?
Ammonia	Ammonia	605	Glycina?	535?	Alumina
Glycina	*Magnesia*		Alumina	530	Zirconia?
Alumina	Glycina?	510	Zirconia?	525	Magnesia
Zirconia	Alumina	505			
	Zirconia?	500			

CITRIC ACID.		LACTIC ACID.		BENZOIC ACID.		SULFUROUS ACID.	
Lime	731	Barita	729	W. oxyd of arsenic		Barita	592*
Barita	730	Potass	609	Potass	608	Lime	516*
Strontia	618	Soda	604	Soda	603	Potass	488*
Magnesia	615	Strontia	603	Ammonia	599	Soda	484*
Potass	610	*Lime*	(732)	Barita	597	*Strontia*	(527)*
Soda	605	Ammonia	601	Lime	590	Magnesia	439*
Ammonia	603	Magnesia	575	Magnesia	560	Ammonia	433*
Glycina?	415?	Metallic oxyds.		Glycina?	400?	Glycina	355*
Alumina	410	Glycina	410	Alumina	395	Alumina	351*
Zirconia	405	Alumina	405	Zirconia?	390?	Zirconia	347*
Metallic oxyds.		Zirconia	400			Metallic oxyds.	

ACETIC ACID.		MUCIC ACID?		BORACIC ACID.		NITROUS ACID	
Barita	594	Barita	900	Lime	537*	Barita	450
Potass	486	Lime	860	Barita	515*	Potass	440
Soda	482	Potass	484	Strontia	513*	Soda	437
Strontia	480	Soda	480	*Magnesia*	(459)*	Strontia	430
Lime	470	Ammonia	431	Potass	482*	Lime	425
Ammonia	432	Glycina	425	Soda	479*	Magnesia	410
Magnesia	430	Alumina	420	Ammonia	430*	Ammonia	400
Metallic oxyds.		Zirconia	415	Glycina	388*	Glycina	340
Glycina	395			Alumina	385*	Alumina	336
Alumina	391			Zirconia	382*	Zirconia	332
Zirconia	387						

PHOSPHOROUS ACID.		CARBONIC ACID.		PRUSSIC SEMIACID.		HYDROTHEIC SEMIACID.
Lime		Barita	420*	Barita	400	Barita
Barita		Strontia	419*	Strontia		Potass
Strontia		*Lime*	(423)*	Potass	300	Soda
Potass		Potass	306*	Soda	298	Lime
Soda		Soda	304*	Lime	290	Ammonia
Magnesia?		*Magnesia*	(366)*	Magnesia	280	Magnesia
Ammonia		Ammonia	339*	Ammonia	270	Zirconia
Glycina		Glycina	325*	Glycina?	260	
Alumina		Alumina	323*	Alumina?	258	
Zirconia		Zirconia	321*	Zirconia?	256	
Metallic oxyds.		Metallic oxyds.				

B. *MISCELLANEOUS ATTRACTIONS,*

NOT EXHIBITED IN WATER ONLY.

OXYGEN.
Potassium
Carbon, dry
Manganese
Zinc
Iron
Tin
Antimony
(Hydrogen)
(Phosphorus)
(Sulfur)
Arsenic
(Nitrogen?)
Nickel
Cobalt
Copper
Bismuth
Mercury
Silver
Arsenious acid
(Nitric oxyd)
Gold
Platina
(Carbonic oxyd)
(Muriatic acid?)
W. oxyd of manganese
W. oxyd of lead

(OXYGEN.)
With heat, Vauquelin.
Titanium
Manganese
Zinc
Iron
Tin
Uranium
Molybdaenum
Tungsten
Cobalt
Antimony
Nickel
Arsenic
Chromium
Bismuth
Lead
Copper
Tellurium
Platina
Mercury
Silver
Gold

(OXYGEN.)
At the lowest red heat. Davy.
Potassium
Sodium
Barium
Boron
Carbon
Manganesium
Zinc
Iron
Tin
Phosphorus
Antimony
Bismuth
Lead
Sulfur
Arsenic
Tungsten
Nitrogen
Palladium
Mercury
Silver
Gold
Platina

OXYMURIATIC ACID, CHLORINE. Davy.
Potassium
Sodium
Zinc
Iron
Lead
Silver
Antimony
Bismuth
Phosphorus
Copper
Sulfur
Mercury
Platina
Gold

HYDROGEN.
Oxygen
Sulfur
Carbon
Phosphorus
Nitrogen

(NITROGEN.)
Oxygen
Sulfur?
Phosphorus
Hydrogen

(SULFUR.)
Davy.
Potassium
Sodium
Iron
Copper
Antimony
Palladium
Lead
Silver

SULFUR, PHOSPHORUS?
Potass
Soda
Iron
Copper
Tin
Lead
Silver
Bismuth
Antimony
Mercury
Arsenic
Molybdaenum

SILICA.
Fluoric acid.
Potass

ALCOHOL.
Water
Ether
Essence
Alk. sulfurets

OIL.
Lime
Barita
Potass
Soda
Magnesia
Oxyd of mercury
Other metallic oxyds
Alumina

C. *TABLE OF DOUBLE DECOMPOSITIONS.*

In all mixtures of the aqueous solutions of two salts, each base remains united to the acid which stands nearest to it in this table.

BARITA			STRONTIA					LIME				POTASS	MAGNESIA
Sulfuric	*S*	*C*	*S*	*C*	*S*	*P*	*S*	{*C*	*P*	*P*	*P*	SODA	order {*B*
Nitric	*N*	*S*	*P*	*SS*	*P*	*S*	*P*	{*P*	*F*	*F*	*F*	MAGNESIA	*S* {*C*
Muriate	*M*	*P*	*SS*	*F*	*SS*	*SS*	*SS*	*F*	*B*	*B*	*SS*	AND AM-	*N* {*P*
Phosphoric	*SS*	*SS*	*N*	*P*	*F*	{*F*	*F*	*B*	*SS*	*C*	*S*	MONIA	*M* *F*
Sulfurou S	*P*	{*N*	*M*	*B*	*B*	{*B*	*B*	*SS*	*S*	*SS*	*B*	GLYCINA	*P* *SS*
Fluoric	*C*	{*M*	*F*	*S*	*C*	{*C*	*N*	*S*	*C*	*S*	*N*	ALUMINA	*F* *S*
Boracic	*B*	{*F*	*B*	*M*	*N*	*N*	*M*	*M*	*N*	*N*	*M*	ZIRCONIA	*SS* *N*
Carbonic	*F*	{*B*	*C*	*N*	*M*	*M*	*C*	*N*	*M*	*M*	*C*	Each with	*B* *M*
												every sub-	*C*
STRONTIA	LM	PT	MG	LM	PT	MG	AM	GL	PT	MG	AM	GL	sequent base	AM
		SD	AM		SD			AL	SD			AL	in this	
			GL					ZR				ZR		
			AL											
			ZR											

The brackets before the letters denote that there appear to be some exceptions in the cases to which they point: the brackets after the letters, that heat makes some changes in the respective cases.

The initial letters of the table are expressed in these technical hexameters.

CONTENTIO AQUATICA; VICTORIA; REQUIES.

REBARisne modo posse adfore bellica rostra?
Des nautam satis apta cibo refovere alimenta;
Cor superest sanum; flabitque optatus abunde
Spiritus; has animi ira feret tibi acerrima gazas.
Ast Brontes animosus acerbo fœdere palmas
Cæsus fert: ut pro rebus monet apta sodales!
Si possit, fato tubicen memor addat honores.
Postulat ossa relata, heu! flebile condere marmor.
Spes est fixa, bonum cœli gazis fruiturum.
Alma huic pax fiat orbi, lassis omnipotens des
O pater! Ut flebo jussus canere armigerûm vim!
Dire opifex belli, cesses normam abjicere omnem.
Pax fessos bona mulcet, gazis lætior auri.
Præsumam gazas nempe adfore rursus ab alto huc;
Mira dabit lucra pax, fortassis in ultima mundi.

Table showing the sequences of some of the metallic oxyds.

SULFURIC ACID.		
Barita	Barita	Lead
Strontia	Strontia	Mercury
Lime	Lime	Iron, Potass,
Silver ?	Potass	Soda, and
Mercury ?	Soda	Magnesia
Potass	Mercury ?	
Soda	Iron ?	
Zinc, Iron and	Magnesia	Lead
Copper	Ammonia	Zinc and Copper
Magnesia	Glycina	
Ammonia	Alumina	
Glycina	Zirconia	
Alumina	Copper ?	
Zirconia		
NITRIC ACID.	MURIATIC ACID.	ACETIC ACID.

V.

A SKETCH

OF

ANIMAL CHEMISTRY.

WITH

REMARKS ON THE LAWS

OF

CHEMICAL COMBINATIONS.

EXTRACTED AND ABSTRACTED

FROM THE WORKS OF PROFESSOR BERZELIUS.

TRANSLATED FROM THE SWEDISH.

Förelasningar i djurkemien. 2 v. 8. Stockh. 1806-8.
Afhandlingar i fysik, kemi och mineralogie, utgifne af W. Hisinger och J. Berzelius. 3 v. 8. Stockh. 1806...
Lärbok i kemien. 2 v. 8. Stockh. 1808-12.
Öfversigt af djurkemiens framsteg och närvarande tillstånd. 8. Stockh. 1812.

A. A SKETCH OF ANIMAL CHEMISTRY.

From the Öfversigt, or View of the progress and present state of Animal Chemistry, of which a complete translation is about to be published by Dr. Brunnmark.

1. *Nervous system.* Besides the advantages which animal chemistry, in common with other branches of the science, has derived from the discoveries of Black, Scheele, Priestley, and

Lavoisier, many of the labours of these chemists have been particularly devoted to subjects more intimately connected with it. Among those who have directed their attention to the nervous system, we cannot omit to mention the name of Galvani: the battery of nerve and muscle, constructed by Bunzen, seems not to have been a very fortunate illustration of the nervous action. Home and Reil have also advanced some speculations not very fully supported by facts. The brain has been examined by Thouret, Fourcroy, and Jourdan: and Bichat has investigated the structure of the membranes which accompany the nerves, by dissolving out the medullary matter by means of caustic alkali.

2. *Blood.* The most correct accounts of the blood and its properties have been given by Hales, Lemery, Menghini, Hofmann, Langrish, Cheyne, Schwencke, Gaubius, Rouelle junior, Hewson, Bucquet, Deyeux and Parmentier, in their prize dissertation, and lastly by Fourcroy and Vauquelin.

(P. 12). I have shown that the fibrin, colouring matter and albumen, with mineral acids in excess, enter into peculiar combinations of difficult solubility, which, when the superfluous acids are washed off, are soluble in water; that these substances are easily dissolved by the acetic and phosphoric acids, and that these acids prevent the coagulation of blood by heat; that when fibrin is boiled with water, a small portion of it is dissolved, and the remainder is shrivelled, and becomes insoluble in vinegar; that all the three substances, by the operation of alcohol and ether, are partly changed into peculiar fatty matters, with a pungent smell, different according to the medium employed. I have found in the blood the lactate of potass, and some peculiar substances, which accompany this salt in all the fluids of the body, and which, as I have endeavoured to show, appear in the blood as a step towards its removal from the body, in order to be excreted with other unnecessary substances. It has been generally believed since the time of de Haen, that the blood contains gelatin, such as is obtained when bone or cartilage is

boiled in water; I have shown that there is no gelatin whatever in the living body, and that de Haen and his followers have taken for gelatin a partial coagulation of the last portion of albumen, which remains in the blood. The sulfur, which is exhibited when blood is heated in a silver vessel, is derived from the decomposition of the albumen by the uncombined alkali, with the assistance of the heat. Deyeux and Parmentier believed that the red colour of the blood was derived from the solution of iron in its uncombined alkali. Fourcroy and Vauquelin attempted to show, that it depended on the solution of the subphosphate of iron in albumen. They found that albumen or serum, which was shaken with this salt of iron, while still moist, dissolved it, and derived from it a deep red colour, which was heightened by caustic alkali. According to these experiments, it appeared that the colouring of chyle, exposed to the air, depended on the change of the neutral phosphate of the oxydiole or protoxyd, into the subphosphate of the oxyd. I have repeated these experiments with all possible care, and with the highest respect for the authority of these very celebrated chemists; and my results have been so opposite to theirs, that I cannot help concluding that they are mistaken, and that in fact we know as little of the mode of existence of iron in the colouring matter of the blood, as we did when iron was first discovered in it. The coloured particles, long since described by Leeuwenhoek and Hartsoeker, do not consist of albumen, although they much resemble it. I have shown that metallic oxyds, especially those of iron, are partly soluble in the serum, and change its colour more or less, but that none of them gives the true colour of blood, and that the serum containing iron is totally destitute of the proper characters of the coloured matter. Since none of the most delicate tests for iron detect its presence in the coloured matter of the blood, I have thought myself authorised to conclude, that it could not be in the form of a salt: and since neither iron, nor the earthy phosphates, so abundant in the ashes of the blood, can be extracted from its charcoal by means of the strongest acids, it follows that even in this charcoal, these compounds do not exist in the

state of salts already formed, and it is very probable that the blood contains their primitive component parts in a totally different state of combination. Hence I have concluded that the quantity of bone earth, supposed to exist in the blood, is not really contained in it, since it cannot be extracted by a diluted acid from dried blood; but that bone earth must always be a product of the decomposition of the blood, by which it is formed precisely at the place which requires its presence. [The colouring matter affords $\frac{1}{80}$ of its weight of red ashes, more than one half of which is oxyd of iron. Djurk. II. p. xxvii.]

The cause of the coagulation of the blood is wholly unknown: the irritability, which appears to be excited in the fibrin by the electrochemical battery, has been very justly explained by Heidmann, as depending on the motion produced by the rapidity of the coagulation, which causes the fibres to bend themselves. The three component parts of the blood appear to resemble each other very much in their chemical constitution, so that they may easily either be transmuted one into another, or be employed for producing the same effects in secretion, or in the restoration of parts which require to be replaced.

The blood of bullocks approaches very near to that of men, so that we may easily understand the possibility of its transfusion into the human veins with safety. There is however one remarkable difference. In the human blood, the fibrin, as well as the coloured matter and the albumen, after having been dried, burn much more readily to ashes, and the coal requires neither so strong nor so long continued a heat to destroy it, as that of the blood of oxen. This difference evidently depends on the greater proportion of nitrogen contained in the bullock's blood, which is also further demonstrated by the constant production of carbonate of ammonia from bullock's blood, when it is burnt more slowly, notwithstanding the free access of air. This difference is so much the more remarkable, as it is precisely the reverse of what would be expected, from the compa-

rative nature of the usual food of men and of oxen. Perhaps this circumstance may be greatly illustrated by the results of future investigations respecting the elementary or compound nature of nitrogen.

In the capillary vessels, the coloured particles of the blood become darker, and possibly the colourless parts in the lymphatic arteries may undergo some analogous change. Probably the fibrin penetrates with the serum into these colourless vessels, although it would be difficult to collect their contents in a sufficient quantity for analysis.

The chemical nature of the bloodvessels has been little examined, except that Bichat has subjected their membranes to the effects of maceration. The fibrous membrane of the arteries, without doubt the most remarkable of all, has long been considered as composed of cylindrical muscles. Haller was of this opinion, and founded on it his doctrine of the pulse, which is still taught in our elementary works. The idea was, however, rejected by John Hunter, and Bichat endeavoured in vain to produce in the arteries of living animals any perceptible effect, by the strongest chemical and mechanical stimuli; whence he argued, that the pulse depended on the effect of the heart only, producing a locomotion in the arteries, without any dilatation. My experiments have proved, that these fibres cannot possibly be muscular, since muscular fibres are soft and flaccid, containing more than $\frac{2}{3}$ of their weight of humidity, while those of the arteries are dry, and quite elastic, and since the muscles agree in their chemical properties with the fibrin of the blood, being soluble in acetic acid, and entering into combinations of difficult solubility with muriatic and nitric acids, while the arterial fibres, on the contrary, are insoluble in vinegar, but are dissolved pretty easily in the diluted mineral acids, and not separated from them either by simple or prussiated alkalis, which are the precipitants of fibrin, [as well as of albumen. Afh. III. 7.] Since, therefore, the arterial fibres have neither the struc-

ture nor the chemical composition of muscles, they cannot either be muscular, or fulfil the office of muscles, which indeed is sufficiently apparent from their elasticity. This elasticity, however, supplies the place of muscular power; and Haller's description of the pulse is correct, notwithstanding his idea of the cause of the contraction of the arteries is confuted. On the other hand, Bichat's opinion, that the arteries are not dilated, but only vibrate about their situation, on account of their numerous flexures, when the heart forces the blood into them, must be incorrect, being contrary to the mathematical laws of hydrostatics. Since it is proved, by chemical analysis, that the fibrous membrane of the arteries is not muscular, and consequently cannot have any power to contract itself, and since it follows necessarily from its elasticity, that it must be dilated when the heart pours out its contents, and afterwards, while the heart is at rest, resume its former dimensions, it is evident that the frequency of the pulse can never be different at the same time in different parts of the same individual. Every other inequality, except that of frequency, may possibly take place. Many medical writers have related cases in which such inequalities are supposed to have been observed: but the observations must have been erroneous, since the thing is utterly impossible. The decision of this question, which has been so long disputed, is of great importance to the science of medicine; since it proves that the branches of the arteries can never be thrown into spasmodic action, and that all the disturbances of the circulation, which have been attributed to spasms of the larger vessels, must be strictly limited to the obviously muscular parts, that is, the heart and its auricles, and perhaps sometimes the muscular fibres which are seen to extend a little way from it, on the trunks of the great veins which enter it. [Whatever reason there may be for admitting a part of these arguments as correct, it does not appear to be by any means demonstrated, that every muscular part must necessarily contain fibrin: on the contrary it seems to be proved, by considerations which are perfectly unanswerable, that the crystalline lens possesses an

internal power of altering its form, analogous to that of other muscular parts; and the crystalline lens contains no fibrin.]

3. *Respiration.* Cigna, Scheele, Lavoisier, Menzies, Goodwyn, Beddoes, Davy, Henderson and Pfaff have made many experiments on respiration. Dalton's doctrine, of the expulsion of one gas from an aqueous fluid by another, explains some of the apparent irregularities, respecting the accidental absorption of nitrogen. But Allen and Pepys, who have continued these investigations with great accuracy, have found more nitrogen evolved from a Guinea pig, than could possibly be contained in all its fluids.

It has been commonly supposed, that the whole mass of the blood operates on the air, absorbing its oxygen, and giving out carbonic acid: but this opinion is incorrect: the whole of the blood rapidly absorbs oxygen when shaken with it, and takes up, at the same time, a good deal of the carbonic acid that is formed: but serum, freed from the coloured particles, does not materially change the air until it begins to putrefy. The greatest part of the effects of the blood on the air belongs therefore to the colouring particles; and as this portion of the blood does not penetrate the capillary vessels in general, except in a very few of the secreting organs, and is therefore not employed in the growth or repair of the body, it seems very probable that it is principally concerned in the preservation of temperature. This process may be explained according to the ingenious and important theories and researches of Dr. Crawford; and it appears, from the experiments of Allen and Pepys, that as much heat must be evolved in 24 hours, as results from the combustion of about a pound of coal, or even more, since it is possible that still more heat may be evolved by the carbon, which is in a liquid state previously to its combination with oxygen, than by solid carbon. [But what becomes of all this heat, when the man is living in a temperature of 100° ?] It must, however, be confessed, that if these experiments have been correct, it is very

difficult to understand how this extraordinary expenditure of carbon is to be replaced; since, besides the consumption for other purposes, respiration alone must require the carbon contained in at least 8 or 10 pounds of food in the day, which is much more than is usually taken.

Notwithstanding that the changes, which the blood undergoes in the lungs, are in all appearance similar to those, which take place when it is simply agitated in common air or oxygen, still the nervous system appears to have an influence over the process, without which it cannot be carried on. Dupuytren divided the 8th pair of nerves, near the oesophagus, in horses and in dogs, and observed that the animal, though its respiration was unimpaired, soon died for want of oxygenization. When an artery was opened, and the nerve on one side was divided, the arterial blood became darker for a few moments, but then resumed its red colour; if the nerves were divided on both sides, the blood remained venous, and the animal died, while the red colour of the lips and nostrils became black. If, instead of dividing, he only compressed the nerves, the arterial blood became dark, and remained so, as long as the compression was continued, but resumed its scarlet colour as soon as the compression was removed. These experiments sufficiently prove the influence of the nerves on the change of the blood in the lungs, supposing them to have been accurately performed. It is however well known that Baglivi and Bichat made similar experiments, and drew from them conclusions totally opposite to those of Dupuytren. Ducrotay de Blainville, a countryman of Dupuytren, has also repeated his experiments, and found that though the animals actually die some time after the division of the 8th pair of nerves, their death is by no means produced by the prevention of the change occasioned in the blood by respiration. This has been further examined by Emmert, with all the accuracy which is required for a good experimenter. He has fully shown, that the division of the 8th pair of nerves has no immediate influence on the change of the blood in the lungs, but

only on the respiration, which becomes gradually more and more difficult, whence the blood grows dark in the arteries, so that the animal expires, after several hours, with venous blood in the arteries, from the cessation of respiration.

Of the difference of the blood at different periods of life, and in different diseases, we know little or nothing. It has been supposed, that the blood of the foetus undergoes, in the placenta, a change similar to that which takes place in the lungs of the adult, and that it returns of a scarlet colour through the veins of the funis: but credible authors assure us, that in the foetus the eye cannot distinguish the venous blood from the arterial. The principal object of the process, which is carried on in the lungs, appears to be the preservation of temperature; while the foetus borrows its temperature from the surrounding medium, and consequently has no particular occasion for a supply of heat, which could only have the effect of raising its temperature much above the common standard of ordinary animal heat. This circumstance therefore excludes the possibility of a change of the colouring matter in the foetal circulation, although there are many reasons for supposing the blood's passage through the placenta to answer some other very important purposes. Fourcroy has made some remarks on the foetal blood, but they seem to have been the results of accidental observation, and not of direct experiment. Deyeux and Parmentier were unable to distinguish any material difference, between the blood of healthy and of diseased persons. Bordeu also entered into some similar investigations; and Dupuytren, Thénard and Nicolas have shown, that the blood of diabetic patients does not contain the least trace of the sugar, which is so abundant in the urine.

With respect to the respiration of other classes of animals, our knowledge is confined within narrow limits. Birds are very sensible to foreign admixtures in the air, and in an atmosphere which is fatal to a bird, a mouse can live without ap-

parent inconvenience. The respiration of fishes has been somewhat more fully investigated. Fishes have their blood oxygenized in their gills by coming in contact with the uncombined oxygen, which is contained in water, to the amount of about $\frac{1}{100}$ of its volume. Fishes can however live for some days in water exhausted of air, but at last they die in it, without exhibiting any tendency to decompose it by their respiration. The airbladder has sometimes been considered as assisting in the functions of the gills; but this organ seems to be in reality appropriated to the office of regulating the specific gravity of the animal, so as to enable it without difficulty to remain at whatever depth below the surface it finds most convenient. In fresh water fishes, this bladder contains, according to Erman, nitrogen mixed with a variable proportion of oxygen, which however never amounts to the quantity contained in atmospheric air. In sea fish, on the contrary, Biot found that it contained oxygen in a greater proportion, as the depth at which they were found was greater, so that, at the depth of 1100 yards, it contained from $\frac{6}{7}$ to $\frac{9}{10}$ of oxygen. This air is so compressed, that when the fish is drawn out of the water, its expansion forces the bladder through its mouth. In one kind of fish, the cobitis fossilis, Erman found a double kind of respiration; in water containing air, the fish respired as usual by its gills: but if the water was deprived of its oxygen, the fish rose out of the water, swallowed a portion of air, which changed the colour of the bloodvessels to a bright red, as it passed through the intestines, and was discharged when deprived of its oxygen. The respiration of insects has been examined with great care by Haussman; he found that they all absorbed oxygen and gave out carbonic acid. He also examined the respiration of some worms, and found that these also changed the oxygen into carbonic acid. Spallanzani had found the same long before; but he also thought he observed, that many of the mollusca absorbed nitrogen, a circumstance which necessarily remained doubtful at that time, from the imperfect state of chemical knowledge.

4. *Absorption.* The substance of the lymphatic vessels has not been particularly analysed: and their contents have only been examined by Emmert and Reuss, who found them to agree very much with serum, and when viewed with a microscope, to have the appearance of a homogeneous fluid. But after some time, this lymph coagulates into a mass which resembles the fibrin of the blood; whence it follows, that this substance must have been transmitted from the blood by the capillary arteries, and that the fibrin must have been in perfect solution in its original state. An important circumstance, which has not been considered in the investigation of the lymph, is the presence of the remains of the worn out and useless parts, which have been absorbed by the lymphatics, and can only be removed by their means. The analysis of the fluids contained in the muscular parts, and that of urine give me reason to suppose, that most of the substances, which compose the body, are changed by this process into lactic acid, phosphoric acid, and the two substances soluble in water and in alcohol, which accompany the lactates in the animal fluids, and afford the syrup like extract, which is obtained in their analysis. If this is the case, the fluids contained in the lymphatics, after the coagulation of the albumen by boiling, and the evaporation of the liquid, must leave a much greater proportion of this syrup like extract, than serum.

5. *Secretion in general.* The secreted and excreted fluids, formed by the remaining parts of the blood, have all their different characteristic properties, at the same time that they retain some marks of their common origin from albumen and fibrin. The fluids, which hold these characteristic substances in solution, contain the salts of the blood, and generally also its alkali, in the same quantity as the blood itself. Some secreted fluids are equally concentrated with the blood, for instance, bile; others are more diluted; but none are more concentrated. The secretions, or the fluids destined to be employed within the body for particular purposes, without being excreted, are alkaline; but the excretions, which are destined

for evacuation, are all acid; for instance, sweat, urine, and milk; and the uncombined acid is the lactic. [The acid fluids contain a larger portion of alkaline phosphate than the alkaline fluids, probably because the phosphoric acid is a product of spontaneous decomposition. Afh. III. 15. Djurk. II. 178-9.]

6. *Cellular membrane.* Of the cellular membrane we only know, that it is in great measure dissolved by slow boiling, and affords gelatin; a property which it possesses in common with cartilage and skin, although, from the different facility with which these substances are dissolved, there is reason to think that their chemical constitution may also be different. This gelatin is not found as such in these substances, but is properly a product of the operation of boiling. The incorrect opinion, that gelatin is found already existing in the living body, and dissolved in its fluids, has been in great measure derived from the supposed separation of this substance by precipitation with infusion of galls. But while many other animal substances are precipitated by galls, the precipitate of gelatin has the distinguishing character of uniting in a thick mass like caoutchouc, which, when dry, becomes hard and brittle. Such a precipitate cannot be obtained from any animal fluid, except from urine, which has been long boiled with alkali, since the substances dissolved in urine are probably made to approach nearer to the nature of gelatin, by the effect of the alkali and of the boiling.

The cellular membrane contains in its cavities a fluid, which has not been investigated, but which may probably be considered as identical with that which is found in the greater cavities of the body, in blisters, and in dropsy. It contains also in proper cells the semifluid fat, of different consistence in different parts, but which in its chemical properties resembles the fat oils of the vegetable kingdom. The sebacic acid, obtained from it, by means of distillation, by Cartheuser, Segner, Knape, and Crell, has been shown by Thénard to consist of the

acetic and muriatic acids, with an empyreumatic oil of a very disagreeable smell. But in this oil Thénard found an acid, which could be extracted by boiling it with water, whence were obtained, by evaporation, small light granular crystals, and which he considered as a peculiar acid, and called the sebacic. I have recognised in this acid, with the exception of a few external characters, all the properties of the benzoic acid; and have thence been induced to consider the sebacic acid of Thénard, as the benzoic, contaminated by the remains of other products of distillation, which evidently give a smell, both to the acid and to the salts, and which modify their taste.

7. *Pus.* Many attempts have been made to distinguish the pus, which is formed in the inflammation of the cellular membrane, from mucus, but their results have not yet been perfectly satisfactory. The mucus of the trachea has, however, the property of being easily dissolved by acids, and remaining in solution, while pus requires more concentrated acids, and may, after its solution, be precipitated by water. The modes proposed by Darwin, Bruggmans, Grasmeyer, and others, have failed for want of setting out with a correct distinction between the substances; it having been assumed, that the substance, expectorated from lungs not ulcerated, was mucus, as well as that which is discharged from an ulcer or abscess. But, in fact, the coloured blood, which passes during inflammation into the capillary arteries, exudes through the membrane of the trachea, and forms one kind of pus; while, in other parts of the cellular membrane, it is confined by the neighbouring parts, and cannot escape till their destruction has been effected, so that their remains must be mixed with the pus which is formed in this case. Dr. George Pearson has lately bestowed much labour and attention on this subject, but he was not acquainted with several of the substances which have lately been discovered in the animal fluids; at the same time, some of the results of his observations are worthy of attention, in particular the globules which he found in pus and purulent mucus, which appeared to be in

continual motion, and which were not easily decomposed; but his conjecture, that they consist of organized carbon, seems not to be the most happy. He found also that the thinnest expectorations were the most saline and the most deliquescent; but the latter property was probably the consequence of the two former. When he met in these experiments with the syrup like extract, which I have shown in the analysis of the blood, muscle, milk, and urine, to consist of muriate of soda, alkaline lactate, and peculiar animal substances, he considered it as an animal oxyd, which had the property, in common with acids, of neutralising a certain portion of alkali so perfectly, that it could no longer be discovered by any test. In the ashes of pus, when burnt, he found, besides the usual constituent parts, silica and oxyd of iron.

8. *Digestion.* The mucous membrane, which lines all the cavities concerned in digestion, has been fully investigated by Bichat. Its principal character is insolubility in boiling water; it affords no gelatin, as the serous membranes do, and it is destroyed by maceration in cold water, and by the operation of acids, the most easily of all animal substances, after the brain.

The mucus, in which it is enveloped, though uniform in its appearance, is, however, very different in its chemical qualities, according to the nature of the substances with which it is destined to come into contact. Mucus is not properly a solution, but holds in suspension a solid, which has the property of expanding in water, into a thick semifluid mass, which is not dissolved by the addition of more water, and which may be deprived of much of the water that it contains, by placing it on blotting paper. The fluid which pervades mucus is no other than serum, deprived of the greatest part of its albumen. The peculiar substance, which forms the mucus of the nostrils, is soluble both in acids and alkalis, but somewhat more slowly in the latter, while that of the gall bladder, on the contrary, is very easily soluble in alkalis, but is completely precipitated by acids; so

that it is separated from the bile, which holds it in solution, by the acids contained in the chyme, when the bile is decomposed in the process of digestion. If this mucus possessed the properties of that of the nostrils and trachea, it would remain mixed with the solution of the chyle, and produce less beneficial effects in the animal economy. Many authors mention an animal mucus, distinct from that of the membranes, which is supposed to be found in the fluids. In the many careful analyses which I have had occasion to make, I have never been able to find any substance to which this name could be applied, or which agreed sufficiently with the characters of the substances so denominated by Hatchett, Bostock, Jordan, and others. These chemists seem to have employed the term mucus as a general name for substances which could not be accurately determined. The celebrated Fourcroy has given us an essay on mucus, in the sense in which I here employ the term ; but his reasonings, supported by no experiments, are calculated only to mislead the inexperienced : he generalises the use of the denomination so far, as to include in it cuticle, nails, silk, and many other heterogeneous substances, all which he considers as hardened mucus.

The mucous membrane of the intestines is surrounded by a dense cellular and a muscular membrane, agreeing in their nature with the cellular membrane and the muscle of other parts. These are covered by the peritonaeum, a serous membrane, which, according to some coarse experiments, probably agrees in its constitution with cellular membrane. The fluids of such membranes are too scanty to be examined except in dropsy, but we have every reason to believe that they remain unaltered by this disease, [which appears, at least in some cases, to be merely mechanical, the secretion continuing, while the absorbents have been obstructed by previous inflammation. Afh. III. 22.] According to some of my experiments, this fluid consists of serum, which has lost the principal part of its albumen, but has still so much left, that it affords a little coagulum when boiled : when it is evaporated, crystals of common salt are de-

posited, and among them we find the usual brown extract, containing alkali, alkaline lactate, and the extractive substances which commonly accompany it.

The saliva, the gastric fluid, the bile, and the pancreatic fluid, contribute also to digestion. Fourcroy and Vaquelin, and more lately Bostock, have analysed the saliva. I have also examined it myself, and have found it one of the most aqueous fluids of the whole body. It holds in suspension a white slimy substance, which is easily separated by dissolving the saliva in water, and which is soluble in alkalis, but not in acids. I am disposed to consider it, at least in part, as derived from the mucous membrane of the salivary ducts and the inside of the mouth. The other part of the saliva contains, besides the salts commonly afforded by serum, a peculiar substance, remarkable for not being coagulable by boiling, by tannin, or sugar of lead; it affords with water a mucilaginous, light, frothy solution, although the capability of the saliva to be drawn out into threads belongs only to the mucus mixed with it. [It is precipitated by alcohol; when once dried, it is perfectly soluble in water, and is not separated by vegetable or mineral acids. Afh. III. 8.] It has been supposed that the viscidity of the saliva is intended for the admixture of small bubbles of air with the food during mastication: but this opinion is probably erroneous, and it seems in reality, to be principally intended for the mechanical purpose of forming the food into coherent masses fit for swallowing; how far it may be concerned in the ulterior processes of digestion, is wholly uncertain. A part of it, which stagnates about the the teeth, is thickened, becomes coloured, and forms what we call tartar. I have found this substance of two kinds; when newly deposited, it is nothing more than the mucus rendered grey; but by degrees, as the mucus is decomposed, phosphate of lime fixes on the teeth, and sometimes accumulates so as to form a stony substance $\frac{1}{4}$ or $\frac{1}{2}$ a line thick; which contains, besides bone earth, about $\frac{1}{5}$ of its weight of the mucus of the saliva, dried up together with the earthy mass. [Dr. Bostock assumes that albumen is

simply precipitated by sublimate, gelatin by infusion of galls, and mucus, unaffected by either of these, is thrown down by sugar of lead. But in fact any of these precipitates may be of several kinds. The mucus, which he obtains from saliva, from oysters, or from the white of an egg, by agitation, filtration, and precipitation with sugar of lead, is no other than a mixture of the oxyd of lead, thrown down by the uncombined alkali, and the submuriate of lead, which contains only 5 per cent. of the acid, and is therefore afforded in considerable abundance by a minute portion of common salt; for Bostock had not taken measures for separating these substances from his solutions: and when this has been done, the proper substance of saliva is not precipitated by sugar of lead. While so much is presupposed, and so little accuracy is employed in distinguishing one product from another, it is impossible that animal chemistry can be rendered of any utility to physiology. Afh. III. 21.]

Stevens, Réaumur, Spallanzani, Scopoli, Brugnatelli, Carminati, Vauquelin, and others, have attempted, but without much success, to investigate the nature of the gastric fluid. Vauquelin constantly found uncombined phosphoric acid in the gastric fluid of graminivorous animals, while that of men and of carnivorous animals seldom contained any perceptible traces either of uncombined acid or alkali. One of the most remarkable chemical properties of this fluid is its power of dissolving the food on which the animal subsists, and of coagulating milk and albuminous fluids, when employed only in the minutest quantity, as Young has shown in his essay on milk. It is unknown on what chemical substance these remarkable properties depend. It is however said that meat, for example, wrapped up in a piece of fine linen, and kept exposed to the influence of other animal fluids, for example that of the axillae, or of the toes, is dissolved in the same manner as by the gastric fluid.

The pancreatic fluid has never been chemically examined, but it appears to be analogous to the saliva. The bile, on the contrary, has been a very common subject of chemical investigation. Among the earlier chemists, Boerhaave, Bianchi, Verheyen, Hofmann, Drelincourt, Hartman, Barchhusen, Schröder, Marheer, and others, have taken great pains with it. Cadet was the first that performed a tolerably connected analysis of this fluid, and van Bochaut followed him in the same path. Since these, Maclurg, Fourcroy, Powell, and very lately Thénard, have pursued the investigation. All the earlier experiments agreed in making the bile consist of a kind of soap, composed of caustic soda, and a peculiar green bitter resin, which was precipitated by acids, mixed in any quantity with the bile; it was also supposed to contain a quantity of albumen, which could be separated by alcohol. Thénard showed also that bile contained, besides this resin, a peculiar bitter sweet extractive substance, to which he gave the name of picromel, and which contributed with the alkali to the solution of the resin. I was induced, by some apparent improbabilities in his conclusions, to attempt anew the same investigation: the result of which was, that bile contains no resin: that it has the same proportion of alkali and of salts as the blood, and contains also a peculiar substance of a bitter and afterwards sweetish taste, which has the property, in common with the three principal parts of the blood, out of which it is formed in the liver, of being capable of uniting with the mineral acids, and forming a body difficult of solution in water. With a considerable excess of acid, it is completely precipitated, and has all the characters of a resin, is soluble in alcohol, fusible, and capable of forming a plaster with oxyd of lead. A smaller quantity of acid, on the contrary, affords a more soluble combination: and the resin, precipitated by the sulfuric acid, may, by digestion for instance with carbonate of barita, which takes away its acid, be restored to its former properties, so as to afford a solution exactly like bile. This substance agrees also with the albumen and fibrin of the blood in being incapable of precipitation by the acetic acid;

[like fibrin too, it affords an adipocere with ether, and is not precipitated by tannin. Afh. III. 8.] In different animals, and in the same species under different circumstances, its capability of forming compounds of difficult solution with acids is different; and to judge from the observations which I have made, it appears that a long continuance in the gallbladder increases this tendency to form resin. All my predecessors have considered the bile as containing some albumen; but since the substance, which in this case is denominated albumen, is precipitated by acetic acid, and is not redissolved by a fresh addition of the acid, it must necessarily be something different from albumen. By an examination of mucus from different parts, I have been enabled to show, that the substance in question is nothing else than a part of the mucus of the gallbladder, which is dissolved in the bile, and makes it, to use a medical term, more involved. It is found dissolved in the bile in a very small proportion, so that the bile, which is scarcely fluid, gives no more considerable deposit after boiling, than that which is very thin.

The experiments of Stevens, Réaumur and Spallanzani have proved that digestion is a true solution of food by the gastric fluid. Eaglesfield Smith found that, in frogs, digestion is interrupted when the gall duct is tied, and proceeds again rapidly when the ligature is removed: but in the mammalia it is certain that the chyme is often rejected from the stomach, perfectly formed, without any admixture of bile; and that when the bile is present in the stomach, it is always in consequence of disease.

The division, which Everard Home has supposed to exist in the human stomach, does not appear in itself to be highly probable: but his experiments on the two kinds of absorption, which are observable in fluids entering the stomach, and on the functions of the spleen, will lead, if they be confirmed by future investigations, to the most important results. The chyme,

having acquired, by some such means, a proper consistency, enters the duodenum, and there meets the bile; which seems to be decomposed by it, not being found as bile in the contents of the intestines, but having its proper substance changed into a yellow or greenish fatty matter like spermaceti, which affords the dark colour. That the presence of the bile is not however absolutely necessary for the formation of chyle, is proved by cases of jaundice, in which the discharge of bile has been interrupted for one, two, or more weeks, and yet the person has not died for want of nourishment. The chyle is separated from the insoluble part by the operation of the absorbents; but in order that the mass may not remain dry, the chyle is gradually washed out of it by the intestinal fluid, which is successively poured out and reabsorbed, until at last the whole is extracted. What Vauquelin and Sage have done on this subject is not very accurate. Einhof and Thaer have minutely examined the dung of cattle: and I have found that, in the human subject, $\frac{3}{4}$ of the contents are aqueous, holding in solution the salts commonly found in the blood, a certain quantity of phosphate of magnesia, and the peculiar extractive animal matter, besides a small portion of undecompounded bile. The solid part contains all that is undissolved or precipitated, together with the mucus in which it is involved.

The experiments of Vauquelin, on the quantity of earths of different kinds consumed and excreted by fowls, seem to show, in conjunction with some other experiments on vegetables, that these earths must be composed and decomposed in different ways, as may be required for the processes of organic life.

Chyle, from its colour, and its coagulating when boiled, was for a long time compared to milk, and supposed to contain a large portion of sugar of milk: but this erroneous hypothesis is now corrected. In the thoracic duct, the milky appearance is less conspicuous, since it is diluted by the lymph of the lymphatic absorbents, and it is commonly of a yellow grey colour;

it coagulates in the air, and the coagulum acquires by degrees a red colour. Hence there is reason to believe that the whitish substance, suspended in the chyle, is the colouring matter in an imperfect state, requiring the contact of the air in order to be completed. The experiments of Hallé, Emmert, and Reuss agree in showing that chyle, in every thing but its colour, resembles blood, but is much more diluted. From Fourcroy's doctrine, that the colour of the blood depended on the subphosphate of iron, it necessarily followed that the colouring matter contained in the chyle must be in the state of albumen, united with neutral phosphate of the protoxyd or oxydiole of iron, which, upon entering into the mass of the blood, was rendered a subphosphate by the alkali of the blood, while the protoxyd was changed in the lungs into an oxyd; but since this salt of iron cannot be discovered in the colouring matter, this erroneous conjecture falls to the ground.

The intimate nature of the liver and spleen has been little investigated; but the liver exhibits properties resembling those of the bile, and when spontaneously decomposed, under certain circumstances, it readily changes to a fatty matter like spermaceti.

9. *Bones.* The combustible part of the bones was shown by Papin, Hérissant, Lassone, and particularly Haller, to be cartilaginous, and to be capable of affording gelatin by boiling. The nature and composition of bone earth was discovered by J. G. Gahn, whom we have still the happiness to number among the members of the Royal Academy of Sciences; the discovery was first mentioned by Scheele, but not as his own. Long after this, Fourcroy demonstrated that the bones of graminivorous animals contained phosphate of magnesia, which he could not find in human bone; and lastly Morichini discovered the fluate of lime, both in ivory and in the enamel of the teeth. I have also detected in human bone, by a very careful analysis, both fluate of lime and phosphate of magnesia, and shown that

the sulfate of lime, which is found in it after burning, does not exist during life. The cartilaginous part I found about $\frac{1}{3}$ of the whole, something less in the teeth, and very little in the enamel. Fourcroy and Vauquelin had found in the enamel 27 per cent. of combustible matter, and Pepys only 16: I found, on the contrary, only 2 per cent: nor could I discover any such differences between the bones of oxen and of men, as Merat Guillot attributes to them. The cartilage is so incorporated with the bone earth, as to make a mass which presents a very strong mechanical combination, and a chemical union of such force, as to resist, in the absence of water, any tendency to decay for many centuries. Papin's proposal for making soup of bones, which was rejected by Charles the second on account of a pleasantry of one of his courtiers, was revived in later times by Proust; and some have even asserted that bones contain more nourishment than an equal weight of meat; but this opinion is by no means correct.

The shells of some of the testacea have been examined by Hatchett, who found in them the peculiar animal matter, which he has not very correctly described, with carbonate and phosphate of lime. The bones of the mammalia consisting chiefly of phosphate of lime, with but little carbonate, these shells on the contrary consist of the carbonate, with a few parts in 100 of the phosphate.

The marrow resembles other animal oils; and the changes produced in it, when boiled in the bone, depend only on the fluids contained in the vessels of the medullary membrane, which are emptied when the fat is melted out of the cells.

Cartilage in general resembles the cartilaginous part of bones; when it is converted into gelatin by boiling, the small vessels and nerves remain undissolved.

The sinovia has been examined by Margueron: it appears

to be serum, retaining its fibrin, and little altered; it forms a colourless coagulum, and the remainder has the appearance and properties of serum. The fibrin is not precisely identical with that of the blood, though it is difficult to judge from the analysis in what it differs from it. Fourcroy seems to conjecture, that it contains uric acid, an opinion for which there appears to be no other reason, than that the chalkstones, formed in gout, which consist of urate of soda, are sometimes deposited in the joints, and impede their motion.

10. *Muscles.* The muscles have been examined by Geoffroy, with a view of determining the quantity of nourishment they afford. Thouvenel obtained from them, besides their peculiar fibres, an extract, soluble both in water and alchol. I have found that muscular flesh contains about $\frac{3}{4}$ of its weight of fluids, in which there is an uncombined acid; and that the extract, which Thouvenel has described, is the same acid syrup like mass, which is found in milk and in urine, and which consists of lactic acid, lactate of potass, muriate of soda, and the extractive substance which accompanies these salts. I have endeavoured to show, that this extract is not a component part of muscle, but that it belongs to the absorbents, and that it is principally derived from the parts which are worn out, which have partly been taken up by the absorbents, and were partly ready to be taken up at the instant of death. This extract, and the phosphate of soda, are more abundant in the muscular juices than in the blood; whence I have concluded, that these substances are absorbed, and carried into the circulation, in order to be excreted with the urine, in which they are found again in considerable quantity.

[It may be objected, that these substances, if they are superfluous in the blood, ought not to be transmitted to the milk; but the author seems to consider their presence in this, and other secreted fluids, as wholly indifferent to the functions of those fluids, the secretory organs having little or no influence

on any of the contents of the blood, except its three principal constituent parts. (Afh. III. 3.) The two substances, so often mentioned, may perhaps, for the present, be distinguished by the name of peculiar animal extract, soluble in water and alcohol, and peculiar mucilage, insoluble in alcohol. The peculiar extract has not been obtained free from the alkaline lactate. (Afh. III. 13.)] [The peculiar mucilage is separated from the other parts of the watery extract of the residuum left by alcohol, by saturating the alkali present with acetic acid and dissolving the acetate in alcohol: the remaining mass, when dissolved, filtered, and dried, affords a pale grey laminated substance, having not an unpleasant taste of meat: It is precipitated by galls and by sublimate; in the analysis of the blood, I have called it altered albumen, and it resembles so much the substance obtained by boiling pure fibrin in water, that I should almost consider these substances as identical. It may be separated from the precipitate with sublimate, by means of sulfurated hydrogen. The precipitate with galls is flocculent, and does not form a mass, like that which is obtained from gelatin, a substance which is never exhibited without the operation of boiling or of acids. But after long boiling, the peculiar mucilage contained in urine affords an elastic and adhesive precipitate, like that of gelatin: the same is true of the peculiar extract, which is so intimately connected with the lactic acid: but I have never obtained a fluid capable of forming a jelly from either of these substances. Afh. III. 15.]

The muscular fibres are soluble, like fibrin, by digestion in vinegar, leaving a considerable portion of cellular membrane, with the vessels and nerves, undissolved: like fibrin too they become insoluble in vinegar by being boiled: and the water, in which they are boiled, extracts from them a substance not coagulable, which has a strong and agreeable taste of meat: which, together with the dissolved cellular membrane, and the uncoagulable parts of the juices of the muscle, makes what we call soup; the strength and flavour of soup does not therefore

depend on the gelatin obtained from the cellular membrane only, but also on a solution of a part of the muscular fibres, which give it their flavour. The difference between tasteless bone soup and meat soup was formerly attributed to the extractive matter contained in the meat; but, in fact, meat altogether freed from its juices affords a well flavoured and nourishing, though colourless, soup.

On the contraction of muscles, some very interesting experiments have been made by Carlisle, who has endeavoured to show, that their weight and volume are increased during their action. Tendons and aponeuroses resemble, in their chemical properties, cartilage and cellular membrane, affording gelatin when boiled, the vessels only remaining undissolved.

11. *Eye.* The humours of the eye have been examined by Chenevix, and I have also had an opportunity of analysing both these and the coats of that organ. The sclerotica is similar in its composition to tendon; the choroid also affords gelatin, while its numerous vessels and the pigmentum nigrum remain undissolved by boiling. The pigmentum is insoluble in acids, but is dissolved by caustic alkali, and precipitated by acids, of a colour somewhat paler. It burns like a vegetable substance, and leaves the same ferruginous ashes as the coloured matter of the blood, whence it is probably formed, while the colourless parts are transmitted by the vessels to the interior parts of the eye. The cornea also affords gelatin: the iris, on the contrary, has all the chemical characters of a muscle, and its component parts are the same, as well as its functions.

The aqueous and vitreous humours resemble the fluids of serous membranes, but the aqueous seems to contain a smaller portion of albumen. According to Fourcroy and Chenevix, the crystalline lens consists of albumen and gelatin; but, in reality, it contains neither of these substances. It is almost totally soluble in water, and the solution is coagulated by boiling;

but the coagulated mass does not resemble albumen; it is clotted and opaque, like the coloured matter of the blood: like this too it is easily soluble in acetic acid after coagulation. The coagulated mass is snow white, and leaves, when burnt, a slight trace of ferruginous ashes. It is distinguished from the coloured matter by nothing but its colour. Is it not possible that the coloured matter may leave its proper colouring part in the pigmentum, and that the remainder may pass on and form the crystalline? It may however be objected, that these parts receive their blood from different branches of the ophthalmic artery. I could not succeed in converting either the lens or the serum of the blood into the coloured matter, by the addition of the phosphate of iron in any form. This substance seems to be the limit between the fluids and the solids of the body: it contains little more than half its weight of water, and in this differs from all the secreted fluids, which are uniformly more aqueous than the blood. It gives, when analysed, a portion of acid extract, like that of the solid substances, from which the alkali has been carried out by their juices. Reil observed, that the crystalline lens assumed a fibrous appearance, when treated with dilute nitric acid, and thence inferred, that it was muscular; but although the interior structure of this substance is still too little known to enable us to explain the mechanical nature of its functions, yet it is sufficiently evident, from its solubility in water, and from its manner of coagulating, that it cannot be of a muscular nature. [This argument is merely hypothetical, assuming, that the chemical properties of all muscles must be alike, which certainly cannot be proved: on the other hand, the arguments in favour of a spontaneous change of form in the lens, by its own powers, are direct, and, if I am not mistaken, fully demonstrative. The author has elsewhere observed, that the three principal parts of the blood so nearly resemble each other, that they may be considered as modifications of the same substance, and we are not warranted in confining the property of muscularity within such narrow limits, as to attribute it to substances analogous to one of them exclusively. Y.]

The tears have been examined by Fourcroy and Vauquelin: they resemble the humours of the eye; except that, instead of albumen, they hold in solution a particular substance, which is not coagulated by boiling, nor by acids, but which, by slow evaporation in the open air, is converted into an insoluble mucus, like that of the nostrils. Hence it seems to follow, that the nasal mucus also must be fluid when it is first secreted, and gradually acquire its consistency by exposure to the air in respiration; so that it must be essentially different from the mucus of parts not exposed to the air; [which is also distinguished by not recovering its viscidity when dried and again moistened. Afh. III. 8.]

12. *Ear*. The cerumen has been examined by Vauquelin. It is more or less dry, and consists of a peculiar fatty substance, forming a sort of emulsion with albuminous matter.

13. *Skin*. The skin, by long boiling, may be changed into gelatin or glue, which is the better and more adhesive as the skin is more difficultly dissolved. The quality of leather may differ both according to the kind of skin, and to the vegetable substances employed in tannin. For the preparatory operation of steeping the leather, weak alkalis are better than water, and acids, especially vegetable acids, better than alkalis: and a very small quantity of acid may still have a very decided effect. The most important point is, that the process should be conducted slowly and in weak infusions; when it is too much hastened, the external parts of the leather are overloaded with tannin, impede its admission into the internal parts, and afford a hard, brittle, and thin leather.

The rete mucosum of Malpighi has not been examined; it has only been observed that its dark colour in Negroes is bleached for some days by the oxymuriatic acid. The epidermis is not soluble by long boiling in water, but is dissolved by caustic alkalis and by acids, and in most of its chemical relations resembles the hair and the nails. The sebaceous matter of the skin

has not been immediately analysed; but Vauquelin has examined that which accompanies sheep's wool, and found, that it contains, together with carbonated alkali, albumen, with the acetates of lime and potass, and a peculiar saponaceous compound of potass, lime, and a resinous fatty substance. He derives its greasiness from a part of the oil which is separated as the alkali becomes carbonated in the air: but it seems difficult to conceive how carbonated alkali can exist together with pure lime. Vauquelin and Buniva found a curdy kind of fat on the skin of the foetus, which defends the cuticle from the effect of the liquor amnii.

The secretion of the skin is distinguished by the evaporation to which the extent of the surface renders it liable; its quantity has been very carefully examined by Sanctorius, Dodart, Keil, Robertson, Rye and Lining; and lately by Lavoisier and Seguin in France, and by Cruikshank in England: on an average it is found to amount to $4\frac{1}{3}$ pounds in a day, being most abundant during digestion, and least so immediately after eating. Cruikshank collected in a glass, in which he kept his hand, the fluid which exhaled, and he found it pure water. There was a portion of carbonic acid in the air, which was probably derived from the effect of the air on the matter that evaporated, since its volume was not increased. He found that more water was collected when the apparatus was cold than when warm, and hence concluded that the cutaneous evaporation in general was more considerable as the temperature was lower; not remembering, that the more water the glass condensed, the more the capability of the included air to take up water was increased, when it was heated again in the neighbourhood of his warm hand. [But would not this happen equally in every case of cold weather?] Thénard collected the matter perspired, on flannel waistcoats, and found that by solution in water and evaporation it afforded a sour, salt, syruplike extract, the uncombined acid of which he considered as vinegar, in consequence of the experiments which induced him to believe the lactic and acetic acids to be identical. The perspired matter is always

acid, and reddens litmus paper strongly and decidedly. A few drops, which I dried in a watchglass, gave crystals of muriate of soda, together with distinct marks of the common acid extract of the secretions; it left, upon a redissolution in water, a trace of insoluble matter, which, when heated, had the smell of burnt albumen.

The nails are similar to the epidermis, except that their organization is more compact. Hair has been examined by Hatchett, Achard and Vauquelin. Vauquelin found that in the digester it afforded a thick fluid, which remained viscid when it was dried, leaving an insoluble oil, which has the colour of the hair, and is also separated when the hair is dissolved in a caustic alkali very much diluted, or in nitric acid. In the ashes of black hair, he found, besides the common salts of lime, oxyd of iron, and of manganese, together with silica. Red hair, which contains more sulfur than black, affords less iron and manganese; white still less, with a perceptible quantity of magnesia.

14. *Pelvic fluids.* Van Helmont is the first that undertook a chemical examination of the urine. Brandt and Kunkel obtained phosphorus from it; and Boyle discovered a process by which Hankwitz manufactured this substance for sale. Bellini, and especially Boerhaave, pursued the subject with great diligence. Marggraff, Pott, Haupt, Schlosser, Schockwitz, Bergman, Klaproth, and others employed themselves in distinctly exhibiting the phosphates contained in it, and attempted to improve the methods of manufacturing phosphorus. The analysis of the younger Rouelle is still of great value. He discovered its proper characteristic constituent part, which he called a saponaceous extract; he showed what salts were contained in it, and found that in graminivorous quadrupeds it does not contain phosphates, but carbonate of lime and benzoic acid. Some years afterwards, Scheele discovered in it phosphate of lime, dissolved in an excess of acid, uric acid, which was before unknown, and benzoic acid, which was most abundant in children. Cruik-

shank, who was employed by Rollo on the occasion of his investigation of diabetes, particularly described urea, showed its property of being precipitated by nitric acid, and described methods of ascertaining with precision the relative proportions of the different component parts of the secretion. He found that in fever, it affords a precipitate with corrosive sublimate; in a higher fever, with alum; and in a still higher, with nitric acid. In a general dropsy, he found that it contained a considerable quantity of albumen, and a smaller quantity in dyspepsia: but in an encysted dropsy the quantity of albumen was not increased. Three years afterwards, Fourcroy and Vauquelin published a still more elaborate and very excellent analysis: and Proust has since found, in this fluid, carbonic acid, carbonate of lime, and a peculiar resin, like that of the bile; all which however seem to be products of the operations by which they are obtained. Thénard has lately attempted to show that the uncombined acid is not the phosphoric, but the acetic; I have myself found that it was a mixture of the lactic and the uric acids. In the bone earth, which is held in solution by this excess of acid, I found, as in the bones, some fluate of lime: and it appeared by comparison with the substances contained in the blood, that the kidneys must oxygenize a part of the bloods remoter constituent parts, and produce several acids, alkalis, and earths, which either did not previously exist in the blood, or were contained in it much less abundantly. I found, for example, the sulfuric and phosphoric acids in considerable quantity, while the blood does not contain a perceptible trace of the former, and a very small portion of the latter: the earthy and alkaline salts are also far more abundant than in the blood. [This secretion contains some ammoniacal salts, while the muriates of potass and soda are almost the only salts that are found in any other of the animal fluids. Afh. III. 12.]

The dissimilar precipitates, which are deposited in cooling, I found to be either the mucus of the bladder alone, which is always present, either in suspension or in solution, or a com-

bination of this mucus with the uric acid, but without any of the earthy phosphates. I have endeavoured to show the necessity of distinguishing between the mechanical deposition of mucus, depending on a catarrhus vesicae, and the separation of bone earth, for want of a sufficient excess of acid for its solution. The urea, which had been before described, I found to be a combination of the true urea, with several deliquescent substances, from which I had the good fortune to separate it. The true urea is colourless, and shoots into very distinct prismatic crystals, like those of nitre. [Urea unites and forms triple combinations with most of the salts; it is precipitated in a crystalline form by diluted nitric acid, but is converted by the concentrated acid chiefly into nitrate of ammonia. Afh. III. 9.] The true urea is much enveloped in the lactic acid, lactate of ammonia, and the animal substance so often mentioned, which always accompanies this acid and its salts, and which is probably always formed at the same time with them. This substance has a brownish yellow colour, and gives, together with the acid and its salts, the peculiar colour to the secretion: it is easily soluble both in alcohol and in water, and it is this substance, and not albumen, as was formerly maintained, which is precipitated by tannin. The substance, which is precipitated by sublimate, is, besides albumen, which is very probably present in a state of disease, a peculiar extract or mucilage, which is not soluble in alcohol, but, like that which is soluble, always accompanies the lactic acid and its salts. It is not precipitated from the recent fluid, as long as it contains an excess of acid; and perhaps this circumstance is concerned in the precipitation by sublimate in the case of fever. Besides these substances, which were before unknown, I found also some silica, which, in a very few cases, I have also detected in calculi. This earth probably exists in all the fluids of the body in very minute quantities; it is derived from the water employed in cooking and for drink, and not being separable by any processes carried on within the body, must be found in the fluid excretions.

The experiments of Cruikshank, Nicolas, Sorg, Thénard and Bostock have shown that the product of diabetes is liable to considerable variation: that the sugar formed is easily destroyed in chemical operations, and that it cannot be discovered in the blood. I have found it in one case wholly wanting, where the urea had altogether disappeared. After evaporating the fluid in a gentle heat, a brown substance was dissolved in abundance by alcohol, and afforded a stiff extract; it contained the lactic acid, with a little trace of lactate and muriate of ammonia, but consisted almost entirely of the animal extract which accompanies the lactates, was precipitated by tannin, and left after combustion a little muriate of soda, which showed a slight trace of uncombined alkali.

Rouelle, Fourcroy, Vauquelin, Brande, Chevreul and others have analysed the urine of various animals; and perhaps we may consider as belonging to this subject the analyses of a mass of fowls' dung from the South Sea, called guano, which have been executed by Fourcroy, Vauquelin, and Klaproth, who found a large portion of uric acid in it. Brande thought that he found it in the camel, and Vauquelin detected it in a calculus from the bladder of a tortoise; hence it follows that man is not the only animal in which this acid is formed.

The bladder resembles the intestines in its chemical nature. Its mucus may be collected by a filter, in small masses, which when dried generally become red, and show traces of uric acid: if again moistened, they do not recover their viscidity.

Calculous concretions were totally misunderstood by physiologists from Galen down to Paracelsus. Van Helmont compared them to tartar: Hales, Boyle, Boerhaave, and Slare examined them with some attention. Scheele discovered in some the uric acid, which he always found present in the fluid that

forms them, and hence concluded, that this acid was always the principal component part of the calculi. The properties of the uric acid have been still further investigated by Henry: and the examination of calculi was pursued by Austin, Walther, Brugnatelli, and Pearson. At length Dr. Wollaston published, in the Philosophical transactions for 1797, his analyses of gouty concretions and of urinary calculi, which he proved to consist of four principal kinds, containing uric acid, phosphate of ammonia and magnesia, oxalate of lime, and phosphate of lime. Three years afterwards, Fourcroy and Vauquelin published a still more extensive investigation, in which Wollaston's discoveries are confirmed; although his name is not mentioned, either in this essay, or in Fourcroy's Systeme des connoissances chimiques: but having examined nearly 600 different specimens, they were enabled to make many important remarks on the modifications of their composition; they also discovered the presence of two additional substances, the urate of ammonia, and silica. The latter existed only in two specimens, and the former Brande considers as merely a combination of the uric acid with urea, although his reasons do not appear to be altogether conclusive.

It was accidentally observed that alkalis, taken internally, were beneficial in cases of stone, and that vegetable acids favoured the production of such as depended on uric acid. But it is often impossible to diminish the quantity of acid secreted, by the use of alkalis; and I have in vain attempted to remove a morbid excess of alkali by giving acids. In a gouty person of middle age, the urine was turbid and alkaline, containing the earthy phosphates in suspension. I gave him sulfuric acid, without effect; and afterwards phosphoric acid, but the excess of alkali remained, until the dose was so increased as to have a cathartic effect; the secretion then became acid, and deposited uric acid, as long as the catharsis continued, but resumed its morbid state when this effect subsided, although the dose of

the acid remained the same. I afterwards tried vinegar, but with no greater success. Brande has lately attempted to show the inefficacy of alkalis in the uric calculus. Dr. Henry, finding that the urates do not form a precipitate with the muriate of magnesia, and concluding that the urate of magnesia must be a soluble salt, advised a trial of this earth, which, according to Brande's report, has completely succeeded, so that after 15 or 20 grains of magnesia had been taken morning and evening for a fortnight, all the superfluous uric acid was carried off, and the patient was completely cured.

Vauquelin has examined the nature of the seminal fluid; it gradually deposits [crystals of] bone earth, which are probably a product of its decomposition. Its characteristic substance, which was at first viscid, becomes in a short time fluid, even when the air is excluded; and instead of being alkaline, it becomes acid. [In the first state it is insoluble in water, and is hardened by boiling, afterwards it is soluble, and not coagulable by heat. Afh. III. 10.] In the soft roes of fishes, examined by Fourcroy and Vauquelin, a remarkable substance was found, insoluble both in water and in alcohol, affording, by distillation in close vessels, phosphorus, partly uncombined, and partly dissolved in the empyreumatic oil which is formed; while the substance itself contains neither phosphoric acid uncombined, nor any kind of phosphate.

The liquor amnii has been analysed by Vauquelin and Buniva, and appears to resemble the fluid of the serous membranes, and the humours of the eye, containing from $1\frac{1}{4}$ to $1\frac{1}{2}$ per cent. of solid matter. De Zondi has lately shown, that the supposed difference of the liquor amnii of quadrupeds from the human, depends only on the mixture of the contents of the allantoid membrane of the quadrupeds with it, at the time of birth. Vauquelin and Buniva found in this mixed fluid a peculiar acid, difficult of solution, and crystallizable, which they called the amnic; it much

resembles the benzoic, but is distinguished from it by being destroyed both by distillation and by the nitric acid. They also found a brown extractive substance, not soluble in alcohol, nor precipitable by tannin, which therefore differs from all other animal substances of the kind. Meconium has only been examined by Bayen; and seems to be the matter of bile converted into a resin, which the more resembles the same substance found in the intestines of the adult, as it is lower down, and more remote from the gallbladder of the foetus.

15. *Milk.* The milk was first examined by Boyle. After him Boerhaavé made a more complete analysis of it. Hofmann, Macquer, and Spielmann continued the investigation, and Rouelle and Scheele separated its salts and its other component parts, which were little known before. Scheele discovered in it sugar of milk, and the lactic acid, and explained many of its chemical properties. Long after this, Bouillon Lagrange and Thénard asserted, that the lactic acid was nothing but vinegar, united with a peculiar substance, which could not be separated from it by distillation. Fourcroy and Vauquelin have since published a detailed analysis of milk, in which they still further object to the lactic acid of Scheele, on this ground, that its salts, distilled with the sulfuric acid, afford an empyreumatic vinegar; but this is the case with several fixed vegetable acids, which cannot therefore be considered as identical with the acetic. I have myself found that, in the formation of butter, air is absorbed, and not evolved, as some chemists maintain; an event which could not occur in any other circumstances, than that the milk had been before in a state of fermentation, and had been impregnated with carbonic acid. I have proved that the curd is held in a clear solution, and not merely suspended in the milk, and I have endeavoured to determine how far it differs from albumen, to which it has some resemblance, and to which Scheele compared it. I have further shown that milk contains no gelatin, but that the extractive substance, which gives a brown

colour to sugar of milk, resembles in its composition that which is found in the juices of meat and in urine, and consists of the lactic acid, together with lactated and muriated alkali, and the extractive matter soluble in alcohol, which usually accompanies these substances. [The lactate is only purified by being boiled with fresh lime, and digested for 24 hours with levigated carbonate of lead, which would decompose an acetate. Afh. III. 13.] I have examined most of the salts formed by the lactic acid, and I hope I have fully proved, that it cannot be either the acetic, or any other of the vegetable acids, but that it must be a peculiar and very remarkable acid, which is found not only in milk, but, in equal or still greater quantities, in other animal fluids; and I have restored to our immortal countryman Scheele the honour of never having advanced an incorrect statement, in any part of chemical science. [Since the milk contains three characteristic substances, totally different from each other, it is not improbable that each of these is afforded by its peculiar vessels: although in some cases the formation of heterogeneous secretions may perhaps proceed collaterally, as in the chemical process for the formation of nitric ether, which is accompanied by that of the malic acid. Afh. III. 6.]

By following the mode, which I have adopted, of viewing animal chemistry rather as immediately connected with physiology, than as a department of general chemistry, I presume that abler men than myself, who may hereafter employ themselves in similar researches, may extend the science to a degree of perfection, which, to judge from its present state, could scarcely be expected, or even hoped.

B. REMARKS ON THE LAWS WHICH GOVERN THE COMBINATIONS OF INORGANIC NATURE.

Lärbok. II. 561.

1. *When two simple bodies, of opposite electrochemical properties, are capable of being united in various proportions, the quantities of the positive body, supposing that of the negative body to remain constant, are multiples of the least possible quantity, by the numbers* 1, $1\frac{1}{2}$, 2, 4 . . .

For example, lead, in its different states of oxydation, is combined with 7.7, 11.55, and 15.4 parts of oxygen. The two latter numbers are multiples of 7.7 by $1\frac{1}{2}$ and 2. In the two sulfurets of iron, 100 parts of the metal are united with 58.75, and $58.75 \times 2 = 117.5$ parts of sulfur.

Rem. 1. If we supposed the quantity of the positive body to remain constant, the result would be nearly the same, but the expressions would be more complicated.

Rem. 2. The multiplication by $1\frac{1}{2}$ seems to be only apparent, from our not being acquainted with the combination which ought to be the first member of the series. Thus, arsenic takes up, in the arsenious acid, 34.263 parts of oxygen, in the arsenic acid half as much more, or 51.428. But upon a careful examination of the degrees of oxydation of arsenic, I found that the black powder, which is formed when arsenic lies exposed to the open air, consists of 100 parts arsenic and 8.6 oxygen: and this observation converts the number $1\frac{1}{2}$ into 6, with respect to the lowest state of oxydation. In the same manner the oxygen of the sulfuric acid is half as much again as that of the sulfurous, with equal quantities of sulfur. In the two muriates of sulfur, examined by Bucholz and Berthollet junior, (p. 585) we find two lower degrees of oxygenization in the sulfur, which afford us a series of 1, 2, 4, and 6. I have already mentioned the existence of a suboxyd of lead, which

will require us to change the number $1\frac{1}{2}$, for the combinations of this metal, into some whole number yet undetermined: and I have observed that we have reason to infer, from the number $1\frac{1}{2}$, which occurs in the progression of the oxydation of iron, that there is an oxyd of this metal in a lower stage of oxygenization, yet unknown to us. [In the same manner the existence of a compound, resembling the "euchlorine" of Davy, was inferred by Berzelius before its actual discovery. P. 608.]

Rem. 3. In most of my experiments, I have found the progression to consist of even numbers, 2, 4, 6, 8; gold and "ammonium" exhibit the odd numbers 3, 5, 7, in their stages of oxygenization; but this irregularity may perhaps depend on the existence of some intermediate steps, which are hitherto unknown.

Rem. 4. There is a certain proportion between two positive and negative bodies, which affords a combination more intimately united, than any other proportion differing from it on either side. For instance, the oxygen of the oxydiole or protoxyd, "oxidule," of mercury is more easily expelled than that of the oxyd; while on the contrary the oxygen of the oxyd of iron is more easily expelled than that of the oxydiole.

2. *The proportions between two substances, which are found in union with one or more other substances, are governed by the same laws which are observed in their simple binary combinations.*

For example, the proportion of iron to sulfur in the sulfated oxydiole of iron, or the green sulfate, is precisely the same as in the subsulfuret of iron; and if we compute the proportion of sulfur to metallic iron in the sulfated oxyd of iron, or the red sulfate, we find that the iron is combined with half as much more sulfur as in the former case; and in the subsulfated oxyd, only $\frac{1}{4}$ as much. If we recollect, that in the common pyrites the iron is united with twice as much sulfur as in the sulfate of the protoxyd, we shall have for the whole series, first, sulfur 14.687 parts to 100 of iron; next, in magnetical pyrites, and

green sulfate, $14.687 \times 4 = 58.75$ of sulfur; then in the red sulfate, $14.687 \times 6 = 87.67$; and, lastly, in common pyrites, $14.687 \times 8 = 117.5$ of sulfur to 100 of iron; so that the progression becomes 1, 4, 6, 8; and perhaps a combination answering to the number 2, which is still wanting, may hereafter be discovered. And of these combinations, only two, as far as we know, can exist alone; the others require, as often happens in similar cases, the presence of one or more different substances for their existence.

3. *When two oxygenized bodies are combined, their proportions may be determined from that of the oxygen which they contain, which is either equal in both of them, or in one a multiple by a whole number of the quantity contained in the other.*

A. In neutral salts, the oxygen of the acid is a multiple of the oxygen of the base; twice as much in the sulfurous, phosphoric, muriatic, arsenic, boracic, and carbonic acid; 3 times as much in the sulfuric and oxalic; 4 times in the nitrous; 6 times in the nitric, and 8 times in the hyperoxymuriatic: [that is, admitting, in the latter cases, the existence of oxygen in nitrogen, and "chlorine."]

Rem. 1. Hence it is easy to explain the observations of Bergman, of the precipitation of metallic salts by other metals, without the disengagement of hydrogen, and the law of Wenzel, of the neutrality of all compounds obtained from other neutral salts by double elective attractions.

Rem. 2. According to my latest experiments, 100 parts of the different acids require, for their saturation, as much of any base as contains the quantity of oxygen expressed by the annexed numbers. Sulfuric, 19.96. Sulfurous, 24.9. Phosphoric, 27.5. Muriatic, 29.454. Nitric, 14.65. Nitrous, 21.03. Arsenic, 16.98. Oxalic, 21.2. Acetic, 15.8. Tartaric, 11.79. Citric, 14.3.

In supersalts, the oxygen of the acid is twice, or sometimes even four times, as much as in the corresponding neutral salts.

Thus, in the supersulfate of potass, the quantity of the acid is doubled.

In subsalts, the oxygen of the acid is sometimes a multiple of that of the base, sometimes equal to it, and sometimes a submultiple: triple, for instance, in the subnitrate of lead, double in the subnitrite, equal in the subsulfates of copper and of bismuth, and only half in the subsulfate of iron and the submuriate of lead.

Rem. The quantity of the base contained in a subsalt must be such a multiple of that which is contained in the neutral salt, that the proportion of the oxygen may accord with this law; for instance, in a subsulfate, the quantity of the base cannot be twice, nor four times, as great as in the sulfate; since the oxygen in the acid would then become $1\frac{1}{2}$ or $\frac{3}{4}$ as much as in the base, which is contrary to the general law: and in fact the subsulfates contain either a triple or a sextuple proportion of the base.

B. Water, in its combinations with acids, may be considered as supplying the place of a base, and that of an acid in its combinations with alkalis. Most of the acids are incapable of existing in a state of perfect insulation; they generally require some oxygenized body to serve them as a base; and water being the weakest of these, and seldom interfering with the results of our experiments, we are in the habit of considering them as perfectly dry, when they contain no more water than is necessary for their existence. Neither sulfuric, nitric, muriatic, fluoric, nor, as far as we yet know, any of the vegetable acids, can exist alone; but each of these acids, in its strongest or purest form, always contains a portion of water, which affords it the same quantity of oxygen as any other base with which it is saturated. These combinations may without impropriety be considered as salts of water, but since we are accustomed to distinguish those combinations only by the name of salts, of which the bases are so powerful, as to conceal the acids from our taste, and from other tests, this mode of representation is at first repugnant to our prejudices.

Rem. Some acids contain also another portion of water, which

serves for their crystallization, but which is less intimately united with them, and may therefore be expelled by heat. Such are the oxalic, citric, and boracic acids; and the two former can only be deprived of the whole of the water by presenting to them a stronger base. These crystallized acids are in fact analogous to crystallized salts.

C. In its combinations with saline bases, water so far supplies the place of an acid, as its electricity is positive with respect to theirs: but being in itself rather of the nature of a base than of an acid, it combines in smaller proportions, containing, when united with potass, soda, barita, lime, magnesia, and alumina, only an equal quantity of oxygen with that of the base. Some few bases also, for instance, the oxyd of iron, combine with a quantity of water, of which the oxygen is only equal to half that of the oxyd.

Rem. These combinations have long been called hydrates, from a correct idea of the nature of the combination. [But surely the term hydrate has not been confined to such cases, and has rather been used inadvertently for hydret, as an indifferent kind of combination, analogous to sulfuret, and it may at least be questioned whether this denomination would not still be the safest.] The hydrates of potass, soda, barita, and strontian, do not lose their water by ignition; from all others it is expelled by heat, and some metallic hydrates lose it only by being boiled in water.

D. Where two oxyds are simply combined, the portions of oxygen which they contain are probably always either equal, or one a multiple of the other; the one assuming the character of a weak acid with respect to the other: and this supposition is rendered still more probable by the direct analysis of double salts.

E. The same observation may be applied to the binary combinations of acids, discovered by Davy, Gay Lussac, and Thénard, where the weaker serves as a base, which is only separable from the stronger by means of some other base, or by water, which the acids divide between themselves. In the case of the

union of the muriatic and carbonic acids, the quantities of oxygen are equal.

4. *When more than two oxygenized bodies are united, the oxygen, in that which contains the least, is a submultiple of that which is contained in each of the others.*

A. 1. In salts and supersalts, the oxygen of the water of crystallization is a multiple of the oxygen of the base, by 1, 2, 3, to 10, or sometimes more.

In supertartrate of potass, nitrate, muriate, and oxalate of ammonia, 1.

In sulfate of lime, and of ammonia, and in muriate of barita, 2.

In nitrate of bismuth, 3.

In sulfate of copper and zinc, 5.

In acetate of soda and muriate of lime, 6.

In green sulfate of iron, 7.

In sulfate of soda, 10.

2. In the subsulfate of iron, the oxygen of the water is equal to that of the base, and double that of the acid. In the subsubnitrate of lead, the oxygen of the water is only one third of that of the base or of the acid.

B. 1. In double salts, or triple compounds, the quantities of oxygen contained in the bases are generally equal, but sometimes one portion is a multiple of the other. They are [probably] equal in the triple compounds of ammonia with magnesia, manganese, zinc, and copper: in alum, the oxygen of the alumina is triple that of the potass, while that of the sulfuric acid is 12 times as much, and that of the water of crystallization 24. In the subsulfate of copper and ammonia, the water of crystallization and the oxyd of copper contain equal quantities of oxygen, the ammonia, [admitting that it contains oxygen,] twice as much, and the sulfuric acid three times. In the prismatic crystals of oxalate of ammonia and copper, (P. 640.) the water contains four times as much oxygen as either of the bases, and

one half of it evaporates when the crystals are exposed to the air.

2. The necessity of considering the oxygen of the substance, in which it is least abundant, as the unit, appears from the example of the crystallized sulfate of soda, in which the oxygen of the acid is to that of the water in the complicated proportion of 3 to 10, while the oxygen of the base is represented by 1, of which each of the other portions is a multiple.

C. 1. In the case of the union of several metallic oxyds, whether natural or artificial, it is probable that the same general laws prevail, but we have not at present a sufficient number of correct analyses of minerals to establish this fact with certainty.

2. Where however minerals are crystallized together, it may happen either that they are combined by mutual affinities, or simply mixed in irregular and variable proportions. Thus when a solution of arseniate of lead in nitric acid is evaporated, the salt, which is obtained, contains arseniate and nitrate of lead, mixed in various proportions, and capable of being separated by the action of water only, which dissolves the nitrate, and leaves the arseniate undissolved. There is also a similar mixture of the crystals of the muriates of ammonia and of iron.

5. *When two simple or apparently simple combustible bodies are united, they are in such proportions, that in order to be oxygenized to a certain degree, they require either equal quantities of oxygen, or quantities of which the one is a multiple of the other.*

The crystallized amalgam of silver, called arbor Dianae, affords an example of the former case, and the metallic sulfurets of the latter.

When sulfur, sulfureted hydrogen, boracium, tellureted hydrogen, or any similar substances, are united to oxyds, they are subject to the same laws as if they were simply united, either with the combustible base, or its oxygen.

(6). According to the experiments of Gay Lussac, which are intimately connected with this subject, whenever two gaseous bodies unite, their *volumes* preserve the proportion of 1, $1\frac{1}{2}$, 2, 3, 4; and there is either no condensation, or the whole volume of one of the gases disappears. Thus two cubic inches of hydrogen, with one of oxygen, form water: 2 of carbonic oxyd take up 1 of oxygen, and afford 2 of carbonic acid: two of oxymuriatic acid gas, decomposed by the solar light over water, afford 2 of muriatic acid gas, and 1 of oxygen; and the same is true in other similar cases. All these facts are strongly in favour of the atomic hypothesis, advanced by Higgins and Dalton; and it is surprising, that Dalton should have been able, without them, to encounter a multitude of difficulties, which must have occurred to him in forming his theory, and which could only be removed by such investigations, as had not yet been instituted.

(7). P. 596. From the quantity of *ammonia* required for saturating acids, it may be inferred, that it consists of 53.1133 of ammonium, and 46.8867 of oxygen [that is about 17 of ammonium to 15 of oxygen]; then if we suppose, that the same quantity of base takes up half as much more oxygen to form nitrogen, which is the utmost that can be admitted, this substance must consist of 43.027 ammonium, and 56.973 oxygen [giving 24.6, instead of Davy's 26]: hence in the 81.525 parts of nitrogen found in ammonia, there must be 46.43 of oxygen, leaving only .4433 for the 18.475 parts of hydrogen, that is, 2.46, for 100 parts of ammonium: but it is evident, that a small error in the former numbers, may have produced a much greater in these smaller ones.

(8.) P. 600. Gay Lussac has shown, that *nitrogen*, with half its volume of oxygen, becomes nitrous oxyd, with an equal volume, nitric oxyd, with $1\frac{2}{3}$, nitrous acid, and with twice its volume, nitric. Now, 100 parts of nitric acid saturate a base containing 14.5 or 14.6 of oxygen, which is not a submultiple of 69.488, the quantity of oxygen in the acid, as it ought to be according to the general law, being more than $\frac{1}{5}$, and less than $\frac{1}{4}$. If therefore this state-

ment were simply true, the general law would be false. But if we assume, that nitrogen contains 56.973 per cent. of oxygen, the 63.72 of nitrogen contained, according to Gay Lussac's experiments, in 100 of nitrous oxyd, must contain 36.29 of oxygen, which is equal to the additional portion of oxygen combined with it to form this oxyd: and upon this assumption, the nitric acid must consist of 13 parts ammonium, and 87 oxygen, $\frac{1}{6}$ of which is 14.5, corresponding to the oxygen of the base of a nitrate; a coincidence which affords an additional argument for the compound nature of nitrogen. And the quantities of oxygen in nitrogen, the two oxyds, and the two acids, will be represented by 1, 2, 3, 4, and 5: [here, however, it is supposed, that the number $1\frac{8}{3}$, assigned by Gay Lussac, ought to have been $1\frac{1}{2}$. P. 603].

(9). P. 604. It is probable that the *muriatic* acid, of which 100 parts neutralise a base containing 29.454 of oxygen, contains twice as much oxygen as the base, that is, 58.9 per cent. since any other supposition would afford a less regular progression in its compounds. It contains, inseparably united, a portion of water, of which the oxygen is equal to that of any other base, and which amounts to $\frac{1}{4}$ of its whole weight.

P. 611. Against Davy's hypothesis of the simplicity of the oxymuriatic acid, or chlorine, it is impossible to advance any conclusive arguments; some analogies, however, appear to be decidedly adverse to it. First, the resemblance of the muriatic acid to many other acids inclines us to think, that it must possess the common principle of acidity. Secondly, the resemblance of the dry muriates to other dry salts is much stronger than their analogy to oxyds. And, thirdly, the submuriates would require to be considered as a peculiar class of bodies, consisting of chlorine, oxygen, and the base: and in this case the quantity of the oxygen would not agree, either with that which the acid is capable of taking up in one of its two higher stages of oxygenization, or with that which is capable of combining with the metal. For example, in the submuriate of lead, the acid is united with a quantity of the oxyd, of which the oxygen is [pro-

bably] four times as much as its own. According to Davy, this salt contains chlorine, oxygen, and lead; and we shall find on calculation, that the oxygen is only "$\frac{7}{8}$" [$\frac{3}{4}$] as much, as is necessary for the oxydation of the lead; and such a combination as this is contrary to all our knowledge of the laws of definite proportions. If again we supposed "euchlorine" to exist in this combination, there would remain only "$\frac{3}{4}$" [$\frac{1}{2}$] of the oxygen necessary for the oxydation of the lead; nor is it any easier to suppose the hyperoxymuriatic acid present, leaving only $\frac{1}{4}$ of the oxygen required for the oxydation. The hypothesis is therefore altogether inconsistent with the present state of our knowledge respecting the proportions of chemical combinations. [On repeating these calculations, there does not appear to be quite so great an incongruity in the doctrine of chlorine, as our author has persuaded himself. He informs us (P. 284.) that the submuriate of lead consists of 100 acid and 1640 oxyd, which is equivalent to 104 and 1705.6; and the 104, being considered as dry acid, will afford 138 of muriatic acid gas, supposed by Sir H. Davy to contain 134 of chlorine, or 2 portions; but the oxyd is denoted by 398+30=428, and 4 portions make 1712, exceeding the former number only by $\frac{1}{258}$].

C. MISCELLANEOUS REMARKS. Lärb. II.

P. 200. The purest iron, of which the specific gravity was 7.8439, became less dense when laminated, its specific gravity being only 7.6; if there was no error in the operations, [which however were very carefully repeated.]

P. 577. According to Wünsch's experiment, it seems probable that some transparent mediums intercept the invisible heat of the sun's rays.

P. 578. Seebeck has found that blue light causes oxymuriatic acid and hydrogen to unite rapidly without any explosion: orange light much more slowly.

D. ANALYSIS OF CINCHONA. Afh. III. 347.

By various solutions, evaporations, and precipitations, good "yellow" bark is found to contain, in 100 parts,

Of insoluble fibre and salts	73.75
Resin	.50
Two modifications of tannin	7.35
Bitter syrup and calcareous salts	6.87
Cinchonate of potass, and lime, with brown extract	2.50
Mucilage, soluble only in boiling water	2.70
Brown colouring extract	1.25
Loss, chiefly of tannin rendered insoluble by precipitation	5.08

1. Cinchona probably derives its medical properties chiefly from a variety of tannin, which has an astringent and bitter taste, is of difficult solution after evaporation, precipitates solution of gelatin, and gives a green colour with sulfate of iron. Some of it is probably in the state of difficult solubility in the first instance, and is first precipitated from the solution: this is partly dissolved in carbonated alkalis, and affords a gelatinous lump in cooling: that which is afterwards deposited is more soluble in the alkali, but leaves a powdery substance undissolved. This tannin of bark precipitates tartar emetic and gelatin, like that of galls, but not iron; it reddens litmus paper, and it affords, with infusion of galls, a yellowish white precipitate. The parts deposited during evaporation, dissolved in boiling water, do not precipitate gelatin or tartar emetic, but retain the property of affording a green colour with iron, and a precipitate with infusion of galls. By these properties cinchona may be distinguished from other substances, which may approach to it the more nearly as they possess more of them: coffee, for example, has only one of the properties, that of giving a green colour with iron. Some such substances may, perhaps, be employed with advantage instead of bark; for instance, besides the alburnum of the pine, the willow and ash bark, the geum, the cascarilla, the tormentil,

the bistort, and the bark of the padus. The ash not being astringent, I have sometimes added to it some tormentil and ginger, with which it made an excellent tonic, and even, according to the experiments of some of my friends, seemed to cure quartan agues.

2. The syrup contained in bark is intolerably bitter, and is, in all probability, very materially concerned in its medical effects. Some of the bark brought from Brasil, contains it so abundantly, that it overcomes altogether the ordinary taste of bark.

3. The cinchonate of lime much resembles the malate, but is not precipitated by lime water, nor by neutral acetate of lead. Vauquelin has called the yellow syrup like acid, which is obtained from it, the cinchonic: the characters of this acid have a very strong resemblance to those of the lactic.

4. The mucilage of bark is precipitated by acids and by alcohol, but not by tannin; it does not afford jelly.

5. The fibrous portion is probably less abundant at the internal surface of the bark, and this part might perhaps be separated with some advantage for medical use.

VI.

REMARKS

ON THE

MEASUREMENT OF MINUTE PARTICLES,

ESPECIALLY THOSE OF THE

BLOOD AND OF PUS.

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1. *On the form and magnitude of the particles of the blood.*

THE form and magnitude of the coloured particles of the blood is a subject not only interesting and important in itself, but is also capable of assisting, by means of comparative observations, in the determination of the magnitude of the capillary arteries, and the investigation of the resistance which they exhibit; it may also be of advantage to obtain some tests capable of ascertaining, whether these particles undergo any change in diseases of various kinds, and what is their relation to the globules of pus, and of other animal fluids: hitherto the measures of the particles of blood, which have been considered by various authors as the most accurate, have differed no less than in the ratio of 2 to 5; and there is an equal degree of uncertainty respecting their form, some admitting the truth of Mr. Hewson's opinions, and a greater number rejecting them without any satistory evidence. In such examinations, it is only necessary to employ a full and unlimited light, in order to obtain a very distinct outline of what appears manifestly to be a very simple substance, and we thus seem to have the clear evidence of the senses against Mr. Hewson: but we must remember, that where the substances to be examined are perfectly transparent, it is only in a confined and diversified light that we can gain a correct idea of their structure. The eye is best prepared for the investigation, by beginning with the blood of a skate, of which the particles are so conspicuous, and of so unequivocal a form,

as to set aside at once the idea of a simple homogeneous substance. They are oval and depressed, like an almond, but less pointed, and a little flatter; each of them contains a round nucleus, which is wholly independent in its appearance of the figure of the whole disc, being sometimes a little irregular in its form; seldom deviating from its central situation, but often remaining distinctly visible while the oval part is scarcely perceptible; and as the portion of blood dries away, becoming evidently prominent above the thinner portion. This nucleus is about the size of a whole particle of the human blood, the whole oval being about twice as wide, and not quite three times as long; the nucleus is very transparent, and forms a distinct image of any large object which intercepts a part of the light by which it is seen, but exhibits no inequalities of light and shade, that could lead to any mistake respecting its form. But if we place some particles of human blood under similar circumstances, near the confine of light and shade, although they are little, if at all, less transparent, we immediately see an annular shade on the disc, which is most marked on the side of the centre on which the marginal part appears the brightest, and consequently indicates a depression in the centre, which Delatorre mistook for a perforation. It is most observable when the drop is drying away, so that the particles rest on the glass: and when a smaller particle is viewed, it has merely a dark central spot, without any lighter central space. Nor have the particles ever appeared to me "as flat as a guinea," although their axis is sometimes not more than one third or one fourth of their greatest diameter; if they were much thinner than this, their diameter would be more diminished than it is when they become spherical, by the effect of an aqueous fluid: while this form corresponds to a diminution to about $\frac{2}{3}$ of the original diameter. They may indeed possibly absorb a part of the surrounding moisture in the change: but they do not seem to have their dimensions much affected by the fluid in which they are suspended, since they may easily be spread thin on glass, and dried, without much change of their magnitude,

at least in the direction of the surface to which they adhere: and they remain distinct as long as the access of moist air is completely excluded. When they have been kept for some time in water, and a little solution of salt is added, their form and structure, as Mr. Hewson has observed, are more easily examined, and appear to resemble those of a soft substance with a denser nucleus, not altogether unlike the crystalline lens together with the vitreous humour, as seen from behind: but with respect to a central particle detached within a vesicle, "like a pea in a bladder," I cannot doubt that Mr. Hewson was completely mistaken. I have never observed a prominence in the outline of the particles of the human blood: and on the other hand I am not perfectly confident that the apparent depression, which is exhibited in some lights, may not depend on some internal variation of the refractive density of the particle. It has commonly been asserted, that these coloured particles are readily soluble in water; but this opinion appears to be completely erroneous, and to depend partly on their passing readily through filtering paper, a circumstance indeed already observed by Berzelius, (Djurk. II. p. iii,) and partly on the extraction of a great part of their colouring matter, together with which they lose much of their specific gravity, so that instead of subsiding, they are generally suspended in the fluid; their presence may however still be detected by a careful examination, and they seem in this state to have recovered in some measure their original form, which they had lost when first immersed in the water. When the water is sufficiently diluted, about three fourths as much rectified spirits may be added to it without destroying the appearance; but after a few months it becomes indistinct, although neither in this case nor in that of complete putrefaction do the globules appear to become constituent parts of a homogeneous fluid. The existence of solid particles, in fluids which at first sight appear transparent, is the most easily detected by looking through them at a small luminous object, either directly or by reflection, as, for example, at the image of a candle seen at the edge of a portion of the fluid,

held in a teaspoon; in this case, wherever there are small particles in suspension, for instance, in milk diluted with water, they will produce a minutely tremulous or sparkling appearance, which is rendered still more distinct by the assistance of a lens, and which depends on the diversified interception of the light, while the particles are carried over each other by the internal motion of the fluid. This test is applicable to all cases of minute particles held in suspension; where however the greater number of the particles are nearly equal in dimensions, the luminous object viewed through them exhibits a much more striking appearance, for it is surrounded by rings of colours, somewhat resembling those of the rainbow, but differently arranged, and often beautifully brilliant. The blood, a little diluted, always exhibits them in great perfection, and they afford a very accurate criterion for the distinction between pus and mucus: mucus, containing no globules, affords no colours, while those which are exhibited by pus exactly resemble the appearance produced by the blood, the rings being usually of the same dimensions: whence it follows that the globules are also of the same size, for the dimensions of the rings vary with those of the particles which produce them: and there can be little doubt, from this circumstance, that the globules found in pus are the identical globules of the blood, although probably somewhat altered in the proeess of suppuration. A minute quantity of the fluid to be examined in this manner may be put between two small pieces of plate glass, and if we hold the glass close to the eye, and look through it at a distant candle, with a dark object behind it, the appearance, if the globules are present, will be so conspicuous as to leave no doubt respecting their existence.

2. *Description of the Eriometer.*

The rings of colours, which are here employed to discover the existence of a number of equal particles, may also be employed for measuring the comparative and the real dimensions of these particles, or of any pulverised or fibrous substances,

which are sufficiently uniform in their diameters. Immediately about the luminous object, we see a light area, terminating in a reddish dark margin, then a ring of bluish green, and without it a ring of red: and the alternations of green and red are often repeated several times, where the particles or fibres are sufficiently uniform. I observed some years ago that these rings were the larger as the particles or fibres affording them were smaller, but that they were always of the same magnitude for the same particles. It is therefore only necessary to measure the angular magnitude of these rings, or of any one of them, in order to identify the size of the particles which afford them; and having once established a scale, from an examination of a sufficient number of substances of known dimensions, we may thus determine the actual magnitude of any other substances which exhibit the colours. The limit between the first green ring, and the red which surrounds it, affords the best standard of comparison, and its angular distance may be identified, by projecting the rings on a dark surface, pierced with a circle of very minute holes, which is made to coincide with the limit, by properly adjusting the distance of the dark substance, and then this distance, measured in semidiameters of the circle of points, gives the corresponding number of the comparative scale. Such an instrument I have called an Eriometer, from its utility in measuring the fibres of wool, and I have given directions for making it, to Mr. Fidler in Foley Street. The luminous point is afforded by a perforation of a brass plate, which is surrounded by the circle of minute holes; the substance to be examined is fixed on some wires, which are carried by a slider, the plate being held before an Argand lamp, or before two or three candles placed in a line; the slider is drawn out to such a distance as to exhibit the required coincidence, and the index then shows the number representing the magnitude of the substance examined. The instrument may be rendered more portable, though somewhat less accurate, by merely making the perforations in a blackened card, furnished with a graduated piece of tape. An eye not shortsighted will generally require the assistance of a lens, when the instrument is

made of the most convenient dimensions, which I have found to be such as to have two circles of points, one at $\frac{1}{3}$ and the other $\frac{1}{5}$ of an inch in semidiameter, with their corresponding scales. The central perforations are about $\frac{1}{30}$ and $\frac{1}{50}$ of an inch in diameter; the points 8 or 10 only in each circle, and as minute as possible. The light of the sun might also be employed, by fixing the circle of points at the end of the tube of a telescope: but it rather adds glare than distinctness to the colours: nor have I been able to gain any thing by looking through coloured glasses, or by using lights of different qualities. Where the object consists of fibres which can be arranged in parallel directions, a fine slit in the plate or card affords brighter colours than a simple perforation (W.) and the points must in this case be arranged in lines parallel to the slit; but if care is not taken to stretch the fibres sufficiently, the employment of the slit in this manner will make them appear coarser than they really are. The colours will still appear, even if there be a considerable difference in the dimensions of the fibres or particles, but they will be so much the less distinct as the difference is greater. In this case the measure indicated will be intermediate between the extreme dimensions; although most commonly it will be somewhat below the true mean, the colours exhibited by the finer fibres prevailing in some degree over the rest. The latitude, however, which the Eriometer affords in the regularity of the substances measured by it, and its collecting into one result the effect of many thousands of particles, or of an endless variety of small differences in the diameters of fibres, give it an unquestionable preference over every kind of micrometer which measures a single interval only at once, with respect to all applications to agriculture or manufactures; for in reality there is not a single fibre of wool among the millions which constitute a fleece, that preserves a uniform diameter throughout its length, and the difference is still greater between the fibres which grow on different parts of the animal; so that to take a single measurement, or even any practicable number of measurements, by the most accurate micrometer, in the usual acceptation of the

term, for a criterion of the quality of a fleece, can tend only to the propagation of error or conjecture in the semblance of the minutest accuracy. Even with the Eriometer, the difficulty of obtaining a fair average of the quality of a sample of wool is extremely great; it is absolutely necessary to preserve the fibres as much as possible in their natural relative situation, and to examine them near the middle of their length; the ends next the skin are almost always considerably finer, and the outer ends generally coarser, than the rest; but this difference is greater in some kinds of sheep than in others, and as far as I have observed, it is less in the Merinos and their crosses than in other sheep: there is also far less difference in the different parts of the same fleece in these breeds than in others; still however this difference is very observable, although it is probable that some part of the sheep might be found, which in all cases might fairly be considered as affording nearly the average of whole fleece; and I imagine that the part of the back about the loins is the most likely to be possessed of this property; so that the middle of the fibres of this part of the fleece might be assumed, in the finer kinds of wool, as affording a fair measure for the whole.

3. *Scale of the Eriometer.*

The theory, which suggested to me the construction of the eriometer, requires some corrections in its immediate application, which depend on circumstances not completely understood: at present therefore I shall only employ, for the determination of the true value of the numbers of its scale, an experimental comparison of its indications with some microscopical measurements, which Dr. Wollaston has been so good as to perform for me, with an admirably accurate micrometer of his own invention.

The dust or seed of the lycoperdon bovista he finds to be $\frac{1}{2500}$ of an inch in diameter: this substance gives very distinctly 3.5 on the scale of the Eriometer; and $3.5 \times 85000 = 29750$. The globules of the blood measured $\frac{1}{4900}$; and immediately

afterwards, when examined in the same state by the Eriometer, indicated about $6\frac{1}{2}$; and $6.5 \times 4900 = 31850$. A wire of platina, obtained by a very ingenious method, peculiar to Dr. Wollaston, measured $\frac{1}{3200}$; and when coiled up, gave n. 9 of the Eriometer; and $9 \times 3200 = 28800$. The mean of a considerable number of comparative observations on fibres of wool, between n.20 and 30, afforded also 28800 for a product.

A mean of these experiments gives very nearly $\frac{1}{30000}$ for the unit of the scale of the Eriometer. Some former investigations had led me to attribute to this unit a value somewhat smaller, especially for the lowest numbers; and I had obtained a formula, and made a table, for ascertaining the true dimensions of any substance measured by the instrument, according to the result of these investigations; but since my later experiments seem to have superseded the mode of calculation which I had adopted, I think it unnecessary to insert the table.

Having sufficiently ascertained the true value of the indications of the eriometrical scale, I shall now enumerate the measurements of the principal substances which I have examined with the instrument.

4. *Substances measured by the Eriometer.*

Milk, diluted, very indistinct, about	3
Dust of lycoperdon bovista, very distinct	$3\frac{1}{2}$
Bullock's blood, from beef	$4\frac{1}{2}$
Smut of barley, called male ear	$6\frac{1}{3}$
Blood of a mouse	$6\frac{1}{2}$
Human blood diluted with water, 5; after standing some days 6, or	7
Blood recently diluted with serum only	8
Pus	$7\frac{1}{2}$
Silk, very irregular, about	12
Beaver wool, very even, (jointed)	13
Angola wool, about	14
Vigonia wool	15

Siberian hare's wool, Scotch hare's wool, Foreign coney wool, Yellow rabbit's wool, about	15½
Mole's fur about	16
Skate's blood, very indistinct, about	16
American rabbit's wool, British coney wool, about	16½
Buffalo's wool (B)	18
Wool of the ovis montana (D)	18
Finest seal wool, mixed, about	18½
Shawl wool 18 or	19
Goat's wool	19
Cotton, very unequal, about	19
Peruvian wool, mixed, the finest locks	20
A small lock of Welsh wool (B)	20
Saxon wool, a few fibres 17, some 23, chiefly	22
An Escurial ram, at Ld. Somerville's show, 23 to	24
Mr. Western's South Down, some specimens	24½
Lioneza wool, 24 to 29, generally	25
Paular wool, 24 to 29, generally	25½
Alpacca wool, about	26
Farina of laurustinus	26
Ryeland Merino wool, Mr. Henty	27
Merino South Down wool, Mr. Henty	28
Seed of lycopodium, beautifully distinct	32
South Down ewe, Mr. W. B.	39
Coarse wool, Sussex	46
Coarse wool, from some worsted	60

It would not be difficult to obtain from these measures a tolerable approximation to the value of wool at its usual prices. If we square the number, and subtract 325, the remainder will be about the number of pounds that are worth 100 guineas. Thus, for good Lioneza, n.25, $25 \times 25 - 325 = 300$, giving 7s. a pound; for moderate South Down, n. 35, $35 \times 35 - 300 = 900$, or 2s. 4d. a pound: which is probably about the proportional value, though both the proportional and the real values must fluctuate according to the demand of the manufacturer.

5. *Microscopical fallacies.*

I shall here take the liberty of inserting some remarks, which I cannot attempt at present to render intelligible to any, who have not entered into the minutest refinements of physical optics: to such as are unacquainted with the latest investigations, I fear they must appear involved in a degree of obscurity almost enigmatical.

When a small object is viewed in a microscope, especially if the light is admitted by a limited aperture, it will often appear to be surrounded by some lines of light and shade, or of colours, which might be supposed to depend on its magnitude, in the same way that the eriometrical colours are derived from the magnitude of the objects examined. In reality, however, their existence and their dimensions depend on the aperture of the microscope, and not on the magnitude of the particles in its focus. To prove that this aperture may produce such an effect, hold any object, for instance, the finger or the nail, so as to intercept all the light of a candle, except a narrow line, and this line will seem to project other lines parallel to it into the adjoining shade. Now these lines depend on the interposed object on one side, and on the margin of the pupil on the other: for if we take an object a little narrower than the pupil, we may see them on both sides of it; and causing the pupil to contract by throwing more light on the opposite eye, they will expand, as the space, through which they are admitted, is diminished by the contraction. We may also very distinctly observe, if we look in this manner at a narrow line of light instead of a candle, that the dispersive powers of the eye manifestly convert its image on the retina into a spectrum of red, green, and blue light; sufficiently confuting the conjectural hypothesis of the achromatic property of its refractive substances. If again we substitute a minute hole or slit in a card for the interposed object, the sides of this aperture will now determine the magnitude of the fringes which are seen at the edge of the candle, and their dimensions will be no longer variable, whatever may be the state of the pupil. But the candle must in this

case either be placed at a distance, or be partly concealed from the eye, unless one edge of the aperture project so far beyond the other, as to limit its visible extent. Now the substance, in which the lens of a microscope is contained, presents a small aperture capable of exhibiting effects of this kind, which however can only be expected to appear when the light is peculiarly circumstanced. The aperture of the highest magnifier that I have employed is $\frac{1}{90}$ of an inch, which answers to about n.330 of the scale of the Eriometer, and would consequently exhibit a bright ring at $\frac{1}{330}$ of the distance of a minute object viewed through it, while the darkest part within this ring would be at about $\frac{2}{3}$ of that distance: and the focal distance of the lens being about $\frac{1}{45}$ of an inch, the diameter of the apparent dark circle would be $\frac{1}{11140}$ of an inch, and that of the bright one $\frac{1}{14825}$; and the dimensions would be nearly the same if any other small lens were employed, with an aperture half as great as its focal distance; so that the constancy of such an appearance, notwithstanding a change of magnifiers, might increase the probability of error. It is obvious that a shade of this kind, surrounding the central parts of a globule, if they happened to be much brighter than the rest, might give rise to a mistaken idea of inequalities in its form or structure; and it is possible that when a particle is darker than the surrounding medium, some parts of its surface may have lines of a similar nature projected on them in an inverse order. The particles of the blood are about $\frac{1}{5000}$ of an inch in diameter, varying from $\frac{1}{8000}$ to $\frac{1}{4000}$ and it is extremely possible that an object of these dimensions may exhibit a light point near its centre, which may be surrounded by a dark and then by a light annular shade within the limits of its disc. There are also several other sources of error in different lights, and in a focus more or less imperfectly adjusted; it is however snfficiently evident that no fallacy of this kind can have given rise to all the appearances, which have been already described, as observable in the particles of the human blood, and still less to those which are observable in the blood of some other animals.

6. *Changeable colours.*

In examining some of the dust of the lycoperdon, I had put it with a drop of water on a glass, when I observed a purple tinge in the water, which I thought at first was a stain extracted from the powder; but the water viewed separately was perfectly transparent, and the light transmitted directly through the water, when the globules were present, was of a yellowish green. After some consideration, I conjectured that this appearance of colour must be analogous to that of the mixed plates which I had formerly observed, depending on the difference of refractive density of the water and the globules, (Nat. Phil. I. 470. Pl. 30. F. 430. II. 633.) and by substituting fluids of different densities for water, I had the pleasure of finding my conjecture confirmed; for when the water was saturated with salt, the yellow green became nearly blue, and the purple redder or browner; and when olive oil was employed, the light directly transmitted was purple, and the oblique light greenish; in balsam of Tolu again, this purple became red, and the indirect light afforded a faint blue. In air too, I found that the powder appeared of a bright blue green by direct light, and of a purplish hue with a light a little oblique; but when the obliquity became a little greater, the tint changed to a brownish yellow green, which continued afterwards unchanged; this alteration may perhaps be derived from the admixture of a portion of light coming round the particles by a more circuitous route. By comparing the opposite effects of water and olive oil, of the refractive densities 1.336 and 1.379, the refractive density of the particles themselves may be calculated to be 1.62, or somewhat less.

Grey beaver wool seems of a purplish hue in direct, and greenish in oblique light, both in air and in olive oil; its grey colour seems to be derived from a mixture of these tints; in olive oil, the rings of colours which it affords are considerably altered in their appearance, the reds becoming every where very faint. Lead precipitated from its acetate, or silver from its nitrate, by common water, affords a reddish direct and a bluish

indirect light, and the same seems to be true of smoke, and of other bodies consisting of very minute particles: but when the indirect light is very powerful, smoke sometimes appears reddish in it, as might be expected from a collection of very small opaque instead of transparent particles.

Mr. Delaval has observed that an infusion of sap green appears of a bright red by transmitted light, and the case seems perfectly analogous to that of the dust of the lycoperdon; the green becoming somewhat yellower, when the gum, with which the colouring particles are mixed, is diluted with water. But this is not the universal cause of a difference of colours exhibited by pigments in different lights; the carthamus, or pink dye commonly sold for domestic use, affords an unequivocal instance of a substance exhibiting colours analogous to those of thin plates, which have been adduced by Newton, in illustration of the colours of natural bodies; the reflected light being undeniably of a yellow green, while the transmitted light is of a bright pink colour. Here the light regularly reflected from the surface only, especially when dry, gives the colour opposite to that of the transmitted light; all the light passing through the fluid, even indirectly, giving a pink colour. But the infusion of the lignum nephriticum seems to hold a middle place between this substance and those which have been mentioned before; the dry extract is of a brownish yellow only; an infusion, not too strong, gives the same colour, verging to orange, by direct transmitted light, and a bright blue by light reflected, or obliquely dispersed within the infusion, or at its surface. The solution of the carthamus affords no green reflection from its surface, and varies in its hue, in different lights, only from crimson to scarlet. The tinging particles of the lignum nephriticum, like those of the precipitated lead and silver, are probably extremely minute, since the colour is but little changed by changing the density of the fluid. It often happens that a blue colour, precisely like that of this infusion, is reflected by green glass bottles, which, when seen by transmitted light, exhibit only a reddish brown colour. The inner bark of the ash is also said to have a property similar to

that of the lignum nephriticum. (Murr. app. med.) The particles of the blood do not derive their colour from any of the causes which have been mentioned, since it may be extracted from them in a clear solution.

When I attempted to explain the colours of mixed plates, which I had produced by partially moistening two lenses very slightly convex, I observed that the reflection of the light from the internal surface of a denser medium must be supposed to invert its properties with respect to the production of colours by interference, as is naturally to be supposed on the principles of the undulatory theory. But when the obliquity is so considerable, it is not very easy to assign a reason for this inversion; and the experiments, which I have now mentioned, make it necessary to assume a law, which I cannot explain, that every very oblique reflection inverts the properties of light with respect to interference. This conclusion confirms the assertion of Newton, that a dark space, bordered by light, will appear in the centre of a portion of light transmitted between the edges of two knives placed very near each other, and the opinion of Mr. Jordan, that the augmentation of a shadow by diffraction is to be considered as the first dark space belonging to the coloured fringes. I had obtained a different result in an experiment similar to Newton's, because I was not aware of the necessity of employing very sharp edges; for when the edges are blunt, the light is reflected from the one to the other in such a manner, as wholly to destroy the appearance of a central dark space; but in any case this source of error may be avoided, by causing one of the edges to advance a very little before the plane of the other, so that half of the fringes may disappear. It is however necessary to suppose this inversion confined to cases of extremely oblique reflection, for when the deviation of the light from a rectilinear path becomes a little more considerable, its effects are no longer perceptible; the second and third fringes scarcely ever requiring any material corrections of the calculations from which it is excluded. The same inversion must also be attributed to the light bent by diffraction round the re-

moter side of a fibre: for this light always cooperates in the first instance with that which is reflected from the nearer side. The extent of the central white light is indeed so great, that all the coloured appearances may almost be considered as beginning at such a distance, that the first dark space is exactly where the simple calculation would lead us to expect the white; since the value of the unit of the Eriometer ought to be, according to this calculation, about $\frac{1}{44000}$ of an inch, instead of $\frac{1}{30000}$; and indeed this value agrees very accurately with experiment, where the two portions of light concerned are exactly in similar circumstances; as may be observed in some of the parallel lines drawn on glass in Mr. Coventry's micrometers, probably where they happen to be single, for in general they are double, and exhibit colours corresponding to an interval much smaller than their regular distance: but in some parts we may observe colours exactly corresponding to their distance, for instance, to $\frac{1}{500}$ of an inch, according to the simple principle of considering each unit as equal to about the 43000th of an inch. Hence it seems that the necessity of a correction depends on the different state of the lights reflected from one side of a fibre, and diffracted round its opposite side, and that when they proceed in a similar manner from two neighbouring parallel lines, the necessity no longer exists. What may be the cause of this irregularity, will perhaps be understood when we understand the cause of the singular phenomena of oblique reflection discovered by Mr. Malus, and we have no reason to expect to understand it before.

7. *Glories.*

I have had an opportunity of ascertaining, that the clouds which exhibit the white and coloured circles, sometimes denominated glories, are certainly not composed of icy particles; and I have succeeded in deducing an explanation of these phenomena from the same laws, which are capable of being applied to so many other cases of physical optics. In the theory of supernumerary rainbows, (Nat. Phil. I. 471. Pl. 30. Fig. 451. II.

643.) I have observed that the breadth of each bow must be the greater as the drops which afford it are smaller; and by considering the coloured figure, in which their production is analysed, it will be obvious, that if we suppose the coloured stripes extremely broad, they will coincide in such a manner in one part as to form a white bow: the red, which projects beyond the rest, being always broadest, so that if all the stripes be supposed to expand, while they preserve their comparative magnitude, the middle of the red may coincide with the middle of the blue; and it will appear on calculation that a white bow will be formed, a few degrees within the usual place of the coloured bow, when the drops are about $\frac{1}{3000}$ or $\frac{1}{4000}$ of an inch in diameter. It is remarkable that in such cases the original rainbow is altogether wanting, and probably for a similar reason, we scarcely ever see a rainbow in a cloud which does not consist of drops so large as to be actually falling, although I have once seen such a rainbow ending abruptly at the bottom of a cloud: it may be conjectured that the edge of the light is in such cases so much weakened by diffraction, that it is too faint to exhibit the effects occasioned by a larger drop. Dr. Smith has made a remark somewhat similar, (Opt. r. 501.) which, if not completely satisfactory upon the principles which have been mentioned, is certainly altogether unintelligible upon his own.

The coloured circles, immediately surrounding the shadows of the observers, may be deduced from the effect of the same minute particles of water, upon the light which has been four, and perhaps five, times reflected within the drops, which may, after transmission, coincide in direction with another portion, passing on the opposite side of the centre; and the drops about $\frac{1}{3000}$ or $\frac{1}{4000}$ of an inch in diameter would in this manner produce a faint corona, of such magnitude, that the limit of green and red, employed in the use of the eriometer, should be at the distance of about five degrees from the centre of the shadow; which, as nearly as I could estimate it, was its real distance in the appearance that I observed.

VII.

AN ESSAY

ON

THE MEDICAL EFFECTS

OF

CLIMATES.

A COMPLETE system of meteorology, even so far as the properties of climates, with regard to temperature only, are concerned, presents almost as great difficulties as a complete theory of the nature and cure of diseases. In this, as in many other departments of medical knowledge, we perpetually find a multiplicity of accounts, apparently well attested, but totally at variance with each other, which render it desirable to appeal to some more satisfactory testimonials, than the results of common and superficial observation; while the evidence, which would be required for forming useful conclusions, upon safe and scientific grounds, although in this case completely within the scope of the human faculties, is still such as to require, for its production, a combination of perseverance and accuracy, which has certainly never yet existed, and which probably can scarcely ever be expected to be found in a sufficient number of collateral observers. Any voluminous work on the subject, whether systematic or empirical, must unavoidably contain much useless, and some erroneous matter; and a short statement of a few facts, which appear to be tolerably well ascertained, first, respecting the physical characters, and secondly, respecting the medical effects of the principal climates which deserve our notice, is all that it will be possible to attempt in the present essay.

The simple indications of a thermometer, however accurately they may be observed, in the most unexceptionable exposure, by no means afford a correct test of the temperature, as it affects the human system: nor is it possible to express the modifications produced by wind and moisture, even supposing them to be easily known, by any numerical measure which shall be applicable to every relative situation of the individual. I have known an atmosphere at 65°, with a thick fog, and a very little wind from the N. E., appear, to a person taking moderate exercise, most oppressively sultry; although a person, sitting long still, might have felt the same air uncomfortably cold. Moisture must make both heat and cold more sensible; the one, by diminishing perspiration, the other, by increasing the conducting power of air. Wind is doubly concerned in affecting the properties of a climate; first, as the great cause of preventing a general accumulation of heat over considerable tracts of country; and secondly, as having a similar effect with respect to the immediate neighbourhood of the person; and its operation is as generally perceptible in the latter way, where we have no precise mode of estimating its magnitude, as in the former, where it is correctly indicated by a thermometer sufficiently exposed: although, in fact, the most shaded fixed thermometer may often be observed to indicate a temperature many degrees higher, than that of the breeze which is circulating in the neighbouring country. Still more commonly by the sea side, the wind exhibits the temperature of the water over which it has blown: at Worthing it is seldom above 64° in the hottest weather, although the sea, when the tide flows in at noon, over the heated expanse of sand, is sometimes raised to 78°, where it is several feet deep.

To the inhabitants of these islands, the most important properties of the climates of other countries are those, which render them more or less fit for the residence of persons, liable to catarrhal or consumptive affections. Hence, warmth and equabi-

lity of temperature, especially in the winter months, are the first objects of our inquiry in the theoretical comparison of climates. Moisture is supposed, by some, to be favourable, by others, to be unfavourable, to such persons: it may therefore be safely neglected, except as tending to increase the evils depending on a want of equability of temperature. The effluvia of moist ground are sufficiently well known as the causes of paludal fevers; further than this they require no particular investigation. Nor can we attempt to assign any reason for peculiarities, which render some situations preferable to others, for some individuals only, labouring under a given disease, as asthma; which is sometimes induced by the atmosphere of cities, and sometimes of the country; and which is occasionally mitigated by a residence in places having no marked distinctions from such as are less favourable to it, as Kensington, and perhaps some others.

In the hotter seasons, there are few diseases, and few constitutions, which would require a climate milder than our own: in the colder, an increase of the facility of circulation, which heat appears to afford, may often be beneficial, partly perhaps as exciting perspiration, and partly as preventing too great a congestion of blood in the internal parts of the body. The mean temperature of the six winter months is therefore the first point of comparison, that requires our attention, and such a comparison may easily be derived from the registers, which are usually kept in circumstances nearly similar.

From October to March.

London, R. S. 1790-4	43.5°
Edinburgh	40.4
Dawlish, Sir W. W. M. S. 1794 (Lond. 44.1°)	45.3
Ilfracombe, without doubt incorrect	(55)
Paris	41.2
Lisbon	55.5
Malta, Domeier	63

Madeira, Gourlay. (S. W. aspect, M.)	63°
Bermudas, M. S. R. S. 1790	68
Jamaica, Botanic garden at Kingston, Clarke, Dunc. med. comm. VII. 369	74.5

From November to March.

London, 1808-9	42.6°
Penzance, 1808-9, Stirling, at 10, or about 1° above the mean	48.1

From January to March.

London, 1809	43.1°	(Jan. 37.9°	
Glasgow, 1809, Stirling, at 10	40.3	33.1	
Penzance, 1809, Stirling, at 10	48.5	46.7	(Dec. 43.7°)
London, 1790-4, 8 or 7 and 2	41.6	39.1	
Sidmouth, 1800, M. S. R. S. 8 and 2	41.7	42.3)	

February and March.

London, 1803, 7 and 2	41.5°
Clifton, 1803, 8 and 2. Carrick	42.5

From October to December.

London, 1811, mean of extremes in each month	47.0°
Sidmouth, 1811, Clarke	45.7

From December to February.

London	39.7°
Edinburgh	36.7
Paris	36.8

It appears from this comparison, that none of the situations here enumerated, North of Lisbon, except Penzance, has any material advantage over London in the mildness of its winter. The best parts of Devonshire seem to be about a degree and a half warmer; Torquay however may perhaps be a little milder than this; the account, which was kept at Ilfracombe, must have been taken from a thermometer in a confined or a sunny situation. But Penzance may be fairly considered as having a temperature $4\frac{1}{2}^{\circ}$ higher than London in the coldest months; nor is the journal here employed the only one, which allots such a superiority to the climate of this extremity of our island. It is remarkable, that the temperature of the three coldest months is the same at Paris as at Edinburgh, being, in both these cities, about three degrees lower than in London. There are probably particular spots on the coast of Hampshire or Sussex, which, from their sheltered situation, must be considerably less subject to the effect of the Northern and Eastern winds, than most other parts of the island; and Hastings, or its neighbourhood, may perhaps be reckoned among the most eligible of these; but the further we go up the channel, the more remote we become from the mild gales of the Atlantic, while the prevalent South Westerly winds, in passing over a considerable part of the continent, must have lost much of their warmth. It is scarcely necessary to observe, that both Malta and Madeira present, numerically, a mean temperature for the winter months, as favourable for an invalid as can possibly be desired.

Equability of temperature is a second quality, of no small importance, as tending to diminish the chance of incurring, or aggravating, pulmonary diseases, by repeatedly taking cold. When, indeed, the temperature is much below 60°, the most material changes are those which occur upon going from the house into the open air; so that a cold climate becomes, in some degree, of necessity a changeable one also. The regularity of this change, and the power of avoiding its effects by additional clothing, as well as of obviating them in some measure by

exercise, contribute however to lessen its influence; and it does not therefore altogether supersede the effects of that changeableness, which consists in a great extent of variation of the temperature of two successive days, or of different hours in the course of the same day. The simplest, and perhaps the best, mode of appreciating the effect of the extent of such a variation, in deteriorating a climate, is to observe, for each month, the greatest variation, at the same hour, in any two successive days within its duration. The mean variation of successive days may also be computed, in order to assist in the comparison; and the mean diurnal range, or the space through which the surface of the mercury moves, in ascending and descending, throughout the day and night, will give a collateral estimate of a similar nature. The best practical mode of deducing this range from the observations is, to find separately the mean of the heights for the morning and afternoon, and to double their difference. Where none of these particulars can be obtained, the extreme variation of each month will afford a character not altogether unimportant.

Mean of the greatest variations of successive days in each month, for the winter months.

London, 1790-4, 6 mo.	11.5°
London, 1794 (Greatest of all 15°)	10.7
Knightsbridge, Read, 1790-1 (Greatest 23°)	16.3
Dawlish, 1794 (Greatest 13½°)	10.7
Lisbon, 1788 (Greatest 11°)	8.7
Bermudas, 1790 (Greatest 13°)	9.0
Montreal, 1778	40.
Penzance, 1808-9. Nov. to March. (Gr. 10°)	9.2
Sidmouth, 1800. Jan. to March. (Gr. 16°)	10.9
Gravesend, 1787. Jan.	13.0
Ashover, Derbyshire, 1805. Jan.	13.5
Minehead, Atkins, 1782. Jan.	16.
Clifton, Feb. 1803, 9°, March, 13°, mean	11.

Mean variation of successive days, for the winter months.

London, 1790-4, 6 mo.	3.62°
London, 1794	3.51
Knightsbridge, 1790-1	5.45
Dawlish, 1794	3.68
Lisbon, 1783	2.70
Bermudas, 1790, about	3.00
Montreal, 1778	13.2
Penzance, 1808-9. Nov. to March	2.80
Sidmouth, 1800. Jan. to March	3.32
Clifton, 1808. Feb. and March	3.55
Gravesend, 1787. Jan.	4.15
Ashover, 1805. Jan.	3.33
Minehead, 1782. Jan.	4.00

Mean diurnal range for the winter months.

London, 1790-4, 6 mo.	13.0°
Sidmouth, 1800. Jan. to March	10.0
Clifton, 1808. Feb. and March (Lond. 16.2°)	11.4

Mean monthly variation, for the winter months.

London, 1793-6, 6 mo.	25.9°
Madeira, 1793-6, 6 mo.	12.6
Sidmouth, 1811. Jan. to March	34.
Clifton, 1803. Feb. and March (Lond. 36°)	31.

It does not appear that Devonshire possesses any decided advantages over London with respect to equability of climate, if we judge of the climate of London from the observations made at the apartments of the Royal Society only; but in so central a situation, the changes must be rendered much less sensible by the effect of the surrounding buildings; and they appear to be

considerably greater at Gravesend, and greater still at Knightsbridge. In this respect too Penzance retains its superiority even over Devonshire. Lisbon seems to have a less variable temperature than any part of Great Britain; and in Madeira, to judge by the monthly variation only, the advantage in this respect appears to be still greater.

The greatest possible equability of temperature seems however to be obtained in a sea voyage to a warm climate, in which the variation seldom amounts to half as much as in the most favourable situation on shore, even on a small island; and in pulmonary cases, the motion of a ship would probably, in general, be rather beneficial than otherwise, while the fatigue of travelling in bad roads, and the danger of sleeping in damp beds present an alternative, by no means favourable to a journey by land.

The direction of the wind alone can seldom have any immediate effect on the salubrity of the climate, except by variously modifying its temperature, according to the seas or countries over which it blows. There is a method of computing the mean direction of the wind, which does not appear to have been hitherto adopted, but which affords a very simple and intelligible result, although somewhat laborious, if extensively applied. It consists in finding the bearing and distance of a point, to which a light body would be carried by the wind in the course of the year, supposing the velocity to be constant, when its variations have not been ascertained by observation. It is obvious that the bearing of such a point will show at once the mean direction of the prevalent winds; and its distance, compared with the effect of a constant wind for the same time, as a unit, will indicate the degree in which those winds have prevailed.

Prevalence of winds.

London, 1790-4 W. 9°S. .234. Dawlish, 1794 W. 6°S. .466.
London, 1794 W. 33°S. .188. Lisbon, 1788 N. 1°W. .315.

According to this comparison, it appears that the mean direction of the wind in Devonshire is somewhat more westerly than in London; and that the degree, in which such westerly winds predominate, is more than twice as great as in London: or, if we convert the measure into days, that the predominance amounted, in 1794, to 68 days for London, of a wind nearly W. S. W. and to 170 days for Dawlish, of a wind a little to the South of West.

The variations of the climate of the same place, with respect to mean temperature, are easily collected from the usual meteorological computations. Dr. Heberden has very successfully combated the common opinion respecting the superior salubrity of cold winters; it appears however that the winter which he particularly observed was more variable, as well as colder, than usual. Mr. Kirwan has attempted to account for the greater frequency of colds, which he supposes to occur in spring and in autumn, by the greater variability of the temperature at those seasons; but both the fact and the explanation are very questionable; for in reality the variations of temperature, if estimated by the total range of the thermometer within the 24 hours, are almost uniformly greatest in the hottest weather. In London, the greatest variations of successive days at the same hours in the morning are greatest in winter; in the afternoon, in summer; and although the latter are a little greater in April than in some of the succeeding months, the difference is by no means considerable.

Of the empirical evidence, which may be collected, respecting the medical effects of different climates, the most authentic is perhaps that which is derived from well regulated bills of mortality; since these documents ought to afford us a tolerable criterion of the general healthiness or unhealthiness of a place, from the proportion between the annual deaths and the population, and at the same time a pretty correct determination of the degrees in which different diseases are fatal. Thus when

we find, that in Stockholm the annual deaths amount to $\frac{1}{19}$ of the population, in London to $\frac{1}{21}$, in the Pays de Vaud to $\frac{1}{45}$, and in some villages in different parts of Great Britain to $\frac{1}{60}$ only, we cannot hesitate to consider a residence in the country as generally more healthy, than in a metropolis similar to either of those cities; although it cannot fairly be concluded that the healthiness is precisely in the proportion which might be inferred from this comparison, until we have considered how far the effect of emigration to a great town may influence the apparent mortality. After the age of 8 or 10, the probable duration of life may be estimated with sufficient accuracy, as Demoivre has very ingeniously shown, by assuming that, of a certain number of persons born together, one will die annually until the whole number is become extinct; and it is well known, that this number may in common cases be supposed to be 86; so that at any given age, for instance 36, we may find the probable duration of life by deducting it from 86, and halving the remainder, which will give us 25 for the estimate required; and if this law were universally true from the time of birth, it is easy to show that the mortality in a metropolis would always be increased by the accession of settlers; so that if, for example, the whole population were supplied by settlers at 20, and all children were sent to a neighbouring village to be educated, the mortality of the town, instead of $\frac{1}{43}$, would become $1 : (43 - 10) = \frac{1}{33}$, and that of the village would be $1 : (86 - 10) = \frac{1}{76}$; and that any partial changes of a similar nature would cause a smaller alteration of the apparent salubrity, in proportion to their extent. But the mortality during infancy is actually much greater than is assumed in the simple hypothesis of Demoivre, and from this circumstance, as well as from the frequent return of aged persons into the country, Dr. Price has inferred that emigration in general has no tendency to increase the mortality of cities. In reality the question depends altogether upon the mortality which may be supposed to take place within the first year, which is often estimated at one third of the births; but nothing like this can well be expected to occur at any tolerably healthy place in the

country; and on the whole it does not appear that Dr. Price's observations can by any means be admitted as conclusive. With respect to the evidence afforded by the prevalence of diseases, it has been observed by Dr. Gregory, that removing from a colder to a warmer climate may be beneficial, even in those diseases to which the inhabitants of the warmer climate are subject; but if they appeared to be equally or more subject to any disease than the inhabitants of the colder, there would surely be little encouragement for the change; for instance, in a person supposed to be liable to diseases of the liver, it would surely be injudicious to undertake a voyage to a hot climate, with a view of avoiding the chance of taking cold, since the well known frequency of hepatitis, in such climates, would much more than counterbalance any prospect of advantage from the change.

The frequency of consumptions is decidedly greater in cold than in hot climates, but not by any means in exact proportion to the depression of the mean temperature. The principal situations, that require to be compared with the metropolis, as a standard, are the South of England, the South of Europe, the islands of the Mediterranean, Madeira, and the West Indies.

There do not appear to be any precise accounts of the proportionate mortality from consumption at any place upon the Southern coasts of this island, on a scale sufficiently extensive for the comparison, but there is abundant reason to think that such a report would be greatly in favour of the salubrity of these coasts, more so indeed than any conclusions, that we should be at all authorised to form, from such thermometrical observations, as have hitherto been compared. A greater number of registers is still wanting to obtain sufficient evidence for the inquiry: and it would be desirable that some journal should be kept at one of the Scilly islands, as a situation fully exposed to the influence of the sea air; for there can be little doubt, that for equability of temperature, a very small island must have great advantages above every other situation on shore. But in

the present state of our knowledge on this subject, although we are fully justified in recommending a residence in Devonshire or Cornwall as advisable in a certain stage of consumption, it does not appear that any meteorological observations will authorise us to represent the advantages, to be gained by such a residence, as by any means equivalent to those, which may be found in remoter situations; nor that the empirical testimony, derived from accounts of the comparative prevalence of the disease, is at all so clear, or so firmly established, as to make up for the want of evidence of a great and decided superiority of the climate.

In the South of Europe, the situations which have been most frequented are Lisbon, or some other part of the peninsula, the neighbourhood of Montpelier, and different parts of Italy. In Spain, and probably in Portugal, consumption is said to be not common, but by no means wholly unknown; and whether from accident, or from causes which are likely to have a constant operation, the climate of Portugal has certainly failed, in a number of instances, of producing any material benefit, where there has been apparently a very fair chance for the patient's recovery. With respect to the South of France, it is perhaps sufficient to remark, that the general proportion of deaths from consumption at Marseilles is fully as great, as the greatest which has been observed in London, where, according to Dr. Heberden's remark, its prevalence has of late years been so much increased. In Italy the disease appears to be decidedly less frequent; and there is no reason to doubt but that, in the Southern parts of that country, there may be situations approaching in their climates to those of the neighbouring islands.

It is however highly probable that some of these islands possess very considerable advantages over almost every part of the continents which surround them, at least as far as we can judge by their affording a climate of that description, which seems to be the most desirable; for actual experience will not allow us to be

too confident of obtaining success, even from a residence in these. Dr. Domeier informs us, in his very interesting account of the island of Malta, that the thermometer seldom varies here more than 6° in the 24 hours, or stands below 51°, even in the depth of winter; while in Lisbon he has seen ice, and both ice and snow in Naples; besides that, in these two cities, the difference between day and night often amounts to 20°. If an invalid leaves England in the middle of August, the voyage lasts about a month, and is often of itself highly beneficial, so that he arrives at Malta, in time to be fully prepared to be further benefited by the mild winter; it appears, however, from the more particular account which Dr. Domeier elsewhere gives of the temperature, that it continues throughout October rather higher than is altogether desirable, being seldom below 70° throughout that month; and in a country where there is scarcely any visible foliage, walls occupying universally the place of hedges, this cannot be a matter of perfect indifference.

In Madeira, though the thermometer attached to a building is seldom found below 54°, there are frequently cold winds, snow, or more commonly something intermediate between snow and hail, often falling on the mountains, at the height of 1000 feet above the sea, and at still greater elevations sometimes lying undissolved till July: and this imperfect kind of hail falls occasionally even on the low grounds. The island is probably a more agreeable residence than Malta, but it seems very doubtful whether it possesses any determinate advantage over it with respect to climate; and it is not impossible, that some other islands in its neighbourhood may afford a greater equability of temperature. We have however a more established experience of its beneficial effects in pulmonary diseases than of almost any other situation. Dr. Adams says that, "in cases of tubercular or scrofulous consumption, if the patient does not saunter away his time after you have advised him to leave England, we can with certainty promise a cure." (Med. phys. journ. Apr. 1800.) This true English consumption he thinks is not to be found in

Madeira, while the catarrhal affection, which somewhat resembles it, though without purulent expectoration, is not uncommon, and may be fatal, if neglected or improperly treated. Dr. Gourlay agrees with Dr. Adams, in his report of the general benefit derived from the climate of Madeira, by consumptive persons, going to it from colder countries, to pass the winter in the island, and of the frequency of catarrhal affections among the inhabitants; but he strongly insists that genuine consumption is also very common and very fatal. There can however be little doubt, from the concurrent testimony of the majority of observers, that the climate of Madeira is extremely salubrious, and that consumptions, though they may sometimes occur, are comparatively rare.

In the West Indies, it is agreed by all authors, that consumptive affections are almost unknown, and that scrofula in all its forms is uncommon: while the inhabitants of the West Indies, coming into a colder climate, are peculiarly liable to the attacks of these diseases. Dr. Hunter, however, observes, that notwithstanding this exemption in favour of the natives of the West Indies, a residence in this climate appeared to him to be of no manner of advantage to persons, who were already affected by incipient consumptions when they arrived there. We cannot doubt the accuracy of this evidence, as far as regards the facts, which came immediately under Dr. Hunter's observation; they principally related to the military, who perhaps laboured under some peculiar disadvantages; but other practitioners have given much more favourable reports of the events of cases, in which they have made trial of the effect of a residence in this climate; and if we may be allowed to draw any inference from the qualities of a climate, as indicated either by the thermometer, or by its effects on the constitutions of the inhabitants, there can be little doubt that a residence in Bermudas, in a temperate and sheltered part of Jamaica, or in some other of the West India islands, together with the equable qualities of the sea air, to which the patient must be exposed during the voyage, must present every advan-

tage, towards the recovery of a consumptive person, that climate alone can possibly bestow.

In other diseases, the effects of climate are perhaps less exclusively beneficial; although it appears that gouty persons often derive considerable benefit from a residence in the hottest countries, as in the East Indies, or at Ceylon in particular. Dr. Gregory seems to be persuaded that life may be lengthened, and the inconveniences of old age retarded or mitigated, by repeated emigrations into warmer and warmer climates, after the age of 50 or 60, according to circumstances: and he thinks that even posterity may be benefited by an emigration of this kind.

In whatever situation the residence of an invalid may be fixed, it is of no small importance that the aspect and exposure of the house, which he occupies, should be selected with a view to the qualities of climate which he is desirous of obtaining. We have an illustration of the truth of this remark, in an observation recorded by Dr. Carrick, respecting the influenza of 1803. "One of the most open and exposed of the buildings on Clifton hill is Richmond terrace, which forms three sides of a parallelogram, fronting respectively the East, South, and West; on the East side, not one family, and scarcely an individual, escaped the complaint, while on the South side, a great majority, both of persons and families, in all other respects similarly circumstanced, escaped it entirely." Such facts as these are among the few which afford solid grounds for medical reasoning, and they deserve the more attention, as they relate to circumstances of continual occurrence, and of perpetual influence on our health and comfort; and in proportion as both the medical and the meteorological sciences become founded on a firmer basis, it cannot be doubted that their beneficial effects will be more and more experienced, as well in the preservation of health, as in the treatment and cure of diseases.

TABLE OF THE ANNUAL MORTALITY

OF THE DIFFERENT COUNTIES OF GREAT BRITAIN, ACCORDING TO THE RETURNS OF 1811.

Middlesex	1 in 36	Rutland	1 in 53
Kent	41	Suffolk	53
Warwick	42	Brecon	54
Cambridge	44	Cumberland	54
Essex	44	Westmoreland	54
Surry	45	Wilts	54
York, E. R.	47	Hertford	55
Huntingdon	48	Oxford	55
Lancaster	48	Sussex	55
Buckingham	49	Bedford	56
Southampton	49	Derby	56
Mean of England	49	Radnor	56
Chester	50	Dorset	57
Durham	50	Leicester	57
Norfolk	50	Salop	57
Lincoln	51	Devon	58
York, N. R.	51	Hereford	58
York, W. R.	51	Mean of Wales	60
Denbigh	52	Gloucester	61
Nottingham	52	Carmarthen	62
Northampton	52	Cornwall	62
Somerset	52	Merioneth	62
Stafford	52	Montgomery	63
Worcester	52	Monmouth	64
Berks	53	Pembroke	64
Flint	53	Carnarvon	67
Glamorgan	53	Anglesey	72
Northumberland	53	Cardigan	73

It is obvious that those counties, which contain large manufacturing towns, exhibit a mortality wholly independent of their climate, as is exemplified in the case of Warwickshire; while the natural salubrity of others, for instance, Cornwall, is probably rendered more conspicuous by their exemption from sedentary employments.

INDEX.

Abernethy, 131
Abietis resina, 462
Abortion, 406
Abscess, 336
Absinthium, 450
Absorbents, 85
Absorption, 116, 507
Abstinence, 408
Acacia, 432
Acarus, 396
Accommodation of the eye, 99
Acetic acid, 492
Acetum, 466
Acetosa, 466
Acetosella, 466
Aching, 169
Achor, 337
Acids, 64
Acidum carbonicum, 469
Acidum muriaticum, 466
Acidum nitricum, 466
Acidum sulfuricum 467
Acne, 363
Acology, 417
Aconitum, 445
Acoroides, 478
Acrel, 130
Active haemorrhage, 212
Act. med. Havn., 48
Adeps, 432
Adhesions, 414
Adipsia, 284
Aerugo, 462
Aether, 444
Aetiology of disease, 118
Aëtius, 50
Affinity, 481
Agalaxia, 271
Agenstia, 155, 164
Agonia, 161
Agrypnia, 174
Albinus, 52
Albugo, 330
Alcohol, 493
Alix, 130
Alkalis, 60
Allen, 123
Allium, 439
Aloe, 455, 456
Alopecia, 345
Althaea, 432
Alumen, 467
Alumina, 485
Amaurosis, 154
Amblyopia, 166, 313
Amenorrhoea, 270
Amentia, 194
Amentiae initium, 169
Ammonia, 439, 484
See corrections.
Ammoniacum, 449, 464
Ammoniae acetas, 445
Ammoniae murias, 464
Ammonium, 540
Amnesia, 169
Amphemerina 248, 249, 252
Amputation, 424
Amputatura, 389
Amygdala, 432
Amylum, 432
Anacatharsis, 229, 254
Anaemia, 282
Anaesthesia, 155, 161, 162, 164
Anasarca, 312, 317
Anatomy, 69
Ancients, 39
Ancylosis, 323
Anethum, 458
Anetus, 245
Anetus icterodes, 247
Aneurysma, 307
Angina pectoris, 159
Angiology, 79
Angustura, 471
Anhelation, 182
Animal chemistry, 497
Animal electricity, 96
Animal heat, 108
Animal mucilage, 520
Anisum, 458
Anorexia, 284
Anosmia, 154, 165
Anthelminthics, 457
Anthemis, 450
Anthrax, 360
Antidotes, 431
Antimonium, 452
Antimony, 486
Antipathia, 283
Antiseptics, 430
Aphonia, 155
Aphoria, 162
Aphtha, 242, 358
Apocenoses, 272
Apoplexia 150, 151, 160
Apoplexy, 148
Apostema, 336, 337
Aposyrma, 360
Apparatus, 68
Aqua, 434
Aqua laurocerasi, 478
Argenti phosphas, 454
Argentum, 429
Aristolochia, 446
Armoracia, 439
Army diseases, 135
Arnica, 430, 473
Arrow root, 437
Arsenic, 487
Arsenic acid, 491
Arsenicum, 429, 472
Arterial compression, 424
Arteries, 79, 501
Arthritis, 252, 285
Arthrodynia, 172, 199, 216
Arthropyosis, 218, 339
Articulation, 158
Asarum, 447
Ascaris, 397
Ascites, 306, 314, 315
Ash, 543
Assafoetida, 438
Association, 101
Asthenia, 156, 205
Asthma, 183, 184
Astringents, 466
Atheroma, 321
Atrophia, 163, 259, 308
Avena, 432
Aurantii cortex, 450
Aurantium, 467
Aurigo, 288
Auserl. abh., 48
Autalgia, 169

Baglivi, 52
Baillie, 132
Baldinger, 48
Ballonius, 51
Balsamum Peruvianum, 470
Balsamum Tolutanum, 449
Bandages, 423
Bang, 126
Barbadoes leg, 364
Barita, 482
Baritae murias, 465
Bark, 543
Bartholinus, 51, 122, 131
Bathing, 434
Beddoes, 53
Bell. B. Bell, 130. J. Bell, 131
Belladonna, 474
Bellini, 52
Benzoic acid, 491
Benzoinum, 449
Beriberia, 163
Berzelius, 497
Bichat, 70
Bile, 514
Bile expectorated, 230
Biography, 44
Bird's dung, 516
Birth, 115
Bismuth, 490
Bismuthum, 451
Bistort, 544
Bistorta, 467
Bladder, 528
Blains, 355
Bleeding, 423
Bleeding cancer, 333
Blennorrhoea, 275
Blepharoptosis, 379, 380
Blood, 106, 498, 545
Blumenbach, 95
Blushing, 197
Boa, 337
Boerhaave, 52, 123
Boils, 359
Bones, 103, 517
Bonetus, 122, 131
Boracic acid, 492
Borax, 462
Bostock, 34
Bougies, 423
Brain, 87, 97
Brain fever, 212
Brodie, 108
Bromfeild, 130
Bronchitis, 222
Bronchocele, 323
Bronchotomy, 424
Brown, 23
Brown's system, 54
Bubo, 199, 323
Bulimia, 283
Bulla, 312
Burn, 198
Burserius, 125
Butter, 531

Cachexies, 280
Cacochymiae, 280
Cacogalia, 294
Cacospermatia 294
Caesarian operation, 408
Cajuputi, 440
Calamina, 462
Calamus, 440
Calcis murias, 465
Calculi, 527
Calefacients, 444
Caligo, 297, 301, 313, 330
Callisen, 130
Calomelas, 448
Calumba, 450
Calx, 429, 431
Cambogia, 456
Camphora, 438, 464
Camphoric acid, 491
Cancer, 333
Canella, 450
Cantharis, 396
Capsicum, 440
Carbo, 430
Carbonic acid, 492
Carbuncles, 360
Carcinoma, 333
Cardamine, 470
Cardamomum, 440
Cardialgia, 280
Carditis, 226
Carica, 456
Caries, 339
Carminatives, 458
Carrick, 575
Cartilage, 518
Carui, 440
Carus, 148
Caryophylli, 440
Cascarilla, 470, 543
Case of Asthenia vocis, 157; of Cauma hepatitis, 167, 229; of Enuresis micturitia, 175; of Profusio subcutanea, 209
Cases of Dysaesthesia, visualis, 167; of Typhus scarlatina, 244
Cassia, 456
Castoreum, 438
Catacausis, 294
Catalepsis, 192
Catamenia in excess, 216
Cataphora, 149, 152
Cataracta, 297
Catarrhus, 220, 222
Catechu, 467
Cathartics, 453
Catheter, 423
Catochus, 296
Cauma, 212
Caustics, 429
Cautery, 422
Cellular membrane, 508
Celsus, 50
Celsus, 420
Centaurium, 450
Cephalitis, 220
Cephalaea, 170, 248
Cephalalgia, 170, 248
Cera, 432
Ceratum lyttae, 462
Cerevisiae fermentum, 463
Cerium, 490
Cetaceum, 432
Chalazium, 331
Changeable colours, 556
Chemical tables, 481
Chemistry, 56
Chest, 107
Chicken pox, 234
Chilblain, 202
Childbed fever, 410
Chlorine, 493, 541
Chlorosis, 283
Cholagogues, 454
Cholelithia, 287
Cholera, 278
Chop, 299
Chorea, 187
Chromium, 489
Chrysanthum, 445
Chyle, 516
Cicuta, 465
Cinchona, 470, 543
Cinnamomum, 440
Circulation, 104, 110, 223
Cirsocele, 308

Citric acid, 491
CLARK, 136
Clarke, 129
Classes, 29
Classes of diseases, 140
Classification, 27
Clavus, 327
Clifton, 575
Climates, 417, 561
Clonus, 186
Clothing, 422
Coagula taken for worms, 399, 400
Cobalt, 490
Cochlea, 98
Coccus, 474
Coeliaca, 279
Colchicum, 459
Cold, 163, 222, 562
Colica, 180
Collections, 47
Colliquation, 272
Colocynthis, 456
Coloured fringes, 558
Colours not distinguished, 413
Columbium, 490
Combinations, 533
Comparative anatomy, 94
Comparative physiology, 94
Compositions, 64
Compound fracture, 384
Conception, 114
Concretio, 294
Concretions, 200
Conduct, 46
Condyloma, 327
Conium, 474
Constipation, 262
Consumption, 419
Contraction, 300
Contractura, 300, 323
Contrayerva, 445
Contusio, 382
Convulsio, 186, 187
Convulsions, 406, 409
Cooper. S. Cooper, 131
Copaiba, 459; for pills, 448
Cophosis, 155
Copper, 487
Coriandrum, 440
Corn, 322
Cornu, 431, 432
Cornwall, 567, 572
Cortex Maraguensis, 473
Coryza, 254
Cough, 182
Country, 419
Cow pox, 234
Crampus, 192
Creta, 431
Crichton, 129
Crinons, 303
Crithe, 331
Critical days, 211
Critical journals, 43
Crocus, 438
Crotaphus, 170
Crotchet, 408
Croup, 213
Crystalline lens, 89
Crystallinocele, 375
CULLEN, 125, 426
Cullen, 36, 38, 126, 128, 157, 276
Cuminum, 440
Cupri sulfas, 452
Cuprum, 471
CURRIE, 128
Curvatura, 299
Curvature, 299
Cusparia, 471
Cusson, 38
Cyania, 413
Cydonia, 432
Cynanche, 220, 221, 222, 243
Cystic sarcoma, 319
Cystisma, 357
Cystitis, 231
Cystocele, 378

Daemonomania, 195
Dandriff, 349
Darwin's arrangement 54
Dauci radix, 463
Daucus, 458
DAVY, 57
Davy, 53
Death, 116
Decay, 116
Defects of sense, 164
Defluxio, 254
Defluxion, 254
Deformitas, 412
Delaval, 557
Deliria, 194
Dementia, 196
Demulcents, 432
Depravation, 295
Dermatology, 78
Devonshire, 567, 572
Desault, 131
Diabetes, 274, 292, 528
Diaphoretics, 478
Diarrhoea, 257, 277
Diastasis, 373, 384
Diet, 436
Difficult dentition, 411
Digestion, 111, 510, 515
Digitalis, 459
Dilatation, 306
Diluents, 434
Diseased action, 119
Diseases, 140; in long voyages, 136; of artisans, 135; of bones, 133; of children, 134; of climates, 136; of females, 134; of princes, 135; of prisoners, 136; of seamen, 136; of the absorbents, 133; of the army, 135; of the chest, 133; of the eye, 133; of the head, 133; of the nerves, 133; of the poor, 135, of the teeth, 133; of the viscera, 133
Dislocation, 372
Displacements, 372
Dissection, 93
Distensio, 381
Diuretics, 459
Dolichos, 457
Domestic medicine, 137
Dotage, 195
Double decompositions, 494
Double head, 416
Dover, 123
Dropsy, 309, 511
Dulcamara, 445
Duncan, 125
Dunc. ann. 48
Dunc. med. comm. 48
Dysaesthesia, 164
Dyscyesis, 404
Dysecoea, 155, 166
Dysenteria, 256, 257 279
Dysentery, 254
Dysodia, 294
Dysodontiasis, 411
Dysopia, 166
Dyspepsia, 280
Dysphagia, 155, 159, 301
Dyspnoea, 185

Dysspermatismus, 162 197, 263
Dystocia, 402
Dysuria, 269, 290
Dysury, 264

Ear, 90, 523
Ear ache, 171
Ecchymoma, 208
Eclampsia, 188, 189, 249, 397
Ecphyma, 321
Ecthyma, 360
Ectopiae, 372
Ectropium, 379
Eczema, 358
Ed. ess. phys. lit. 47
Edgeworth, 23, 45
Edinburgh, 14
Ed. med. ess. 47
Ed. med. journ. 48
Ed. phys. ess. 47
Education, 13
Education, 421
Effusions, 272
Elaterium, 455
Elective attraction, 67
Electricitas, 443
Electrochemical science, 57
Elements, 58
Elemi, 463
Elephantiasis, 363
Elytrocele, 377
Emansio, 270
Emetics, 452
Emmenagogues, 461
Emmyxium, 318
Emphragma, 302
Emphysema, 304
Empimelium, 320
Emplastrum lyttae, 462
Empyema, 338
Empyreal substances, 58
Encanthis, 330
Encephalocele, 375
Enema, 424
Enema aeris, 454
English physic, 16
English practice, 128
Enteritis, 227
Enterocele, 376, 377
Entonia, 190
Entrancement, 148
Entropium, 380
Enuresis, 156, 174, 274
Ephelis, 370
Ephemera, 215, 241, 253
Ephialtes, 174
Ephidrosis, 272,
Eph. nat. cur. 47
Epidemic constitutions, 419
Epilepsia, 188, 249
Epinyctis, 356
Epiphora, 205, 273, 303
Epiphymata, 346
Epiploitis, 226
Epiploocele, 377
Epischeses, 262
Epispastics, 462
Epistaxis, 215
Erethismus, 173
Ergot, 188
Eriometer, 548
Erratica, 253
Errhines, 447
Erubescence, 197
Eruptions, 346
Erysipelas, 202, 224, 232, 233, 356
Erysipelatous inflammation, 198
Erythema, 202, 218, 354, 360
Ettmuller, 52
Euchlorine, 534
Euphorbia, 440
Eustachius, 69
Evil, 367
Exangeia, 306
Exania, 379
Exanthisma, 352
Exarthrema, 373
Excoriatio, 389
Exercise, 421
Excision of bone, 425
Excitants, 439
Exfoliations, 345
Exhaurients, 478
Exhaustion of morbid power, 121
Exophthalmia, 313, 334
Exostosis, 296, 322
Exotic medicine, 137
Expectation, 121
Expectorants, 449
Expergefacients, 438
Extrauterine cases, 404
Exulceratio, 342
Eye, 88, 99, 101, 424, 521

Fabr. Hildan, 51
Face ache, 171
Fainting, 156
Faloppius, 69
False colours, 168
Farina, 432
Fasting, 163
Fatty tumour, 320
Female, 114
Fernelius, 122
Ferrum, 471
Fever, 23, 410
Fevers, 209
Fidgets, 173
Filaria, 400
Filix, 457
Fish, 437
Fishes, 506
Fissura, 384
Fistula, 343, 341
Fistula lacrymalis, 303
Flatulence, 281
Flatulentia, 281
Flow of water, 274
Fluoric acid, 491
Flushes, 197
Foeniculum, 450
Foetal circulation, 505
Forceps, 408
Foreign bodies, 391
Forensic medicine, 138
Forestus, 51, 122
Fractura, 382
Framboesia, 364
Fraxinus, 469
Freckles, 370
Freind, 44, 52
Fr. Hofmann, 52
Fringes of colours, 558
Fucus, 464
Fungus haematodes, 336
Furia, 401
Furunculus, 337, 359

Galactirrhoea, 274
Galbanum, 438
Galen, 50
Galla, 467
Gallstones, 287
Ganglion, 319
Gangraena, 344
Gangrene, 344
Gastric fluid, 513
Gastritis, 227, 233
Gastrocele, 375
Gastrodynia, 281
General therapeutics, 120
General works, 54
Generation, 113
Generic characters, 27
Gentiana, 450
Geoffroea, 457

German physic, 16
Geum, 473, 543
Gibbositas, 299
Giddiness, 169
Ginseng, 451
Glands, 77
Gleet, 276
Globules of blood, 545
Glories, 559
Glossitis, 221
Glycina, 485
Glycyrrhiza, 432
Gold, 488
Gonorrhoea, 174, 204, 276, 277
Gooch, 124, 130
Gorget, 291
Goulard, 130
Gout, 212, 285
Granatum, 467
Grant, 125
Gratiola, 454
Gravel, 289
Greek letters, 33
GREGORY, 45, 94
Gregory, 45, 575
Grey hairs, 370
Growth, 115
Guaiacum, 445
Guinea worm, 400
Gummi Gambiense, 469
Gutta serena, 159

Habits, 420
Haematemesis, 207, 215, 399
Haematoxylum, 467
Haematuria, 208
Haemoptysis, 206, 215
Haemorrhage, 205, 212, 409
Haemorrhagiae, 215
Haemorrhois, 207, 216, 308
Haen, 52, 124
Hair worm, 398
HALLER, 93
Haller, 69, 132
Haller disp. 47
Hare lip, 413
HARVEY, 104
Hautesierk, 124
Hearing, 98
Heart, 79, 105, 542
Heartburn, 281
Heart deformed, 413
Heat, 108
HEBERDEN, 128
Hebetude, 164
Hecker, 129
Hectica, 258
Hectic fever, 258
Heister, 124, 130
Helcosis, 342
Helleborus, 457
Hemeralopia, 166
Hemicrania, 170, 396
Hemiplegia, 153, 155
Hepatirrhoea, 207, 279
Hepatitis, 228
Hepatocele, 377
Hermaphroditism, 414
Hernia, 373
Herpes, 233, 347, 357
Hewson, 545
Hey, 131
Hiccup, 182
Hidebound, 300
Hidroa, 337
Hip case, 318
Hippocastanum, 473
Hippocrates, 50
Hist. Ac. Par. 47
Historical works, 44
Hist. Soc. R. med. 48
Hoarseness, 157
HOFMANN, 122
Hofmann, 52
HOME, 120
Home, 125, 515
Homme porc épic, 351
Hooping cough, 182
Hordeolum, 303, 331
Hordeum, 432
Horns, 319
Horstius, 51
Hospital, 22
Hospitals, 421
Humulus, 474
Hunter. Dr. J. HUNTER 135
Huxham, 52
Hydatids, 229, 399
Hydatis, 312
Hydragogues, 455
Hydrargyria, 359
Hydrargyri subsulfas, 447
Hydrargyrum, 447, 463, 464
Hydrarthrus, 318
Hydrocele, 317
Hydrocephalus, 149, 313
Hydrogen, as osteogenes, 296
Hydrogen, 493
Hydrometra, 316
Hydrophobia, 175
Hydrops, 309
Hydrorachitis, 313
Hydrotheic semiacid, 492
Hydrothorax, 313
Hygiene, 420
Hyoscyamus, 474
Hyperuresis, 274
Hypochondriasis, 282
Hypogastrocele, 376
Hysteralgia, 172, 248, 336
Hysteria, 187
Hysteritis, 231
Hysterocele, 378
Hysterocnesmus, 172
Hysteroloxia, 404
Hysteroptosis, 379

Ichthyocolla, 433
Ichthyosis, 351
Icterus, 287
Immutability of sight, 167
Imperforate hymen, 414
Impetigo, 350, 360
Impotence, 156
Incompatible actions, 121
Incontinence, 173
Indeterminate substances, 60
Indigestion, 280
Inflammatio, 198
Inflammation, 120
Inflammatory fever, 212
Inflation, 304
Influenza, 254
Inhalation, 423
Injured brain, 148
Inoculation, 237
Insanity, 193
Instruments, 422
Intermittents, 246
Introsusceptio, 380
Inversion of the uterus 409
Invisible heat, 542
Ipecacuanha, 452
Iridium, 489
Iris, 358, 455
Iron, 486, 542
Irritability, 103
Irritation, 173
Ischias, 172, 218, 248, 341
Ischiatocele, 377
Ischuria, 263, 399
Ischury, 263
Issues, 424
Itch, 359
Itching, 169

Itchings, 348
Itria, 490

Jalapa, 455
James's powder, 452
JENNER, 238
Jordan, 558
Journ. med. 48
Juglans, 464
Juniperus, 459

Kausch, 128
King's evil, 367
Kino, 467
Kirkland, 130

Laceratio, 385
Laceration, 409
Laceratura, 389
Lacerta, 446
Lacrymal duct, 116
Lactic acid, 491, 531
Lancets, 422
Lancisi, 52, 122
Land scurvy, 352
Larvae, 399, 400
Lassitudo, 163
Lateral vision, 167
Latta, 131
Laurus, 440
Lavandula, 440
LAVOISIER, 55
Laws of combinations, 533
Lead, 488
Lectures, 15
Ledran, 130
Leeches, 399, 422
Lentin, 124, 125
Lepidosis, 349
Lepra, 350, 351
Leprosy, 349, 363
Lethargus, 149
Lethargy, 148
Leucoma, 530
Leucorrhoea, 293, 336
Levator, 423
Lever, 408
Lichen, 32, 347, 433
Licheniasis, 347
Lienteria, 279
Lieutaud, 69, 124, 125, 132
Ligature, 424
Light, 542
Lignum nephriticum, 557
Lime, 483
Limon, 441, 467
LIND, 136
Linné, 124
Lint, 422
Linum, 433
Linum catharticum, 456
Lipoma, 320
Liquor gastricus, 433, 464, 466
Lisbon, 573
Literature of medicine 41
Lithiasis, 289
Lithotomy, 291
Liver, 517
Local affections, 133
Local changes, 295
Local pain, 169
Locked jaw, 191
Loder, 131
Lommius, 122
Loud. med. journ. 48
Longsightedness, 167
Loose cartilages, 323
Looseness, 277
Lordosis, 299, 415
Loxarthrus, 299
Lues, 364
Lumbago, 172, 217, 218, 340
Lunar influence, 419
Lupia, 320, 321
Lupus, 363
Luxatio, 372
Lycopodium, 423
Lytta, 441

Macbride, 124
M. Ac. Par. 47
M. Ac. R. Chir. 47
Macula, 370
Madeira, 573
Magnesia, 431, 484
Magnesiae sulfas, 455
Malis, 303, 396, 400
Malta, 572
Malus, 559
Malva, 433
Mammary sarcoma, 332
Manganese, 489
Mania, 193
Manna, 456
Marchettis, 123
Marisca, 308
Marrow, 518
Marrubium, 449
Mastiche, 441
Mastodynia, 172, 304, 335
Materia medica, 425
Mead, 52, 100, 123
Measles, 212
Mechanical applications, 422
Med. comm. Ed. 48
Med. commun. 48
Med. facts, 48
Medical jurisprudence 138
Medical study, 14
Med. obs. inq. 48
Medicoch. tr. 49
Med. phys. journ. 49
Med. records, 49
Med. trans. 48
Medullary sarcoma, 332
Mel 433
Melaena, 207
Melancholia, 195
Membranes, 78
Menorrhagia, 208, 216, 293
Mentha, 441
Menyanthes. See Minyanthes.
Mercurial eruptions, 359
Mercurialis, 51
Mercury, 488
Merino sheep, 551
Merocele, 377
Mesembryanthemum, 461
Mesostenius, 399
Metallic substances, 58
Meteorismus, 305
Meteorology, 561
Metritis, 231
Mezereum, 441
Microscopical fallacies 554
Midwifery, 402
Miliaria, 235, 337, 358
Miliaris, 236
Milk, 437, 531
Mineral waters, 435
Minyanthes, 473
Mithridatium, 443
Mixed fever, 233
M. Med. Soc. Lond. 49
Mola, 413
Moisture, 562
Mollusca, 362
Molybdaenum, 490
Morand, 130
Morbid appearances, 131
Morgagni, 52, 69, 132
Mortality, 419, 510, 576
Morton, 51
Morus, 467

Moschus, 474
Motion, 102
M. Soc. R. méd. 48
Mucic acid, 492
Mucous effusion, 275
Mucous tumour, 318
Mucus, 511, 512
Mumps, 213
Muriatic acid, 490
Mursinna, 128
Muscae volitantes, 167
Muscles, 73, 102, 519
Muscles of the eye, 101
Mutitas, 156, 158
Myology, 72
Myringa, 31
Myristica, 441
Myrrha, 472

Naevus, 416
Nails, 525
Names, 31
Naples, 573
Narcotics, 474
Nausea, 281, 405
Nauseants, 477
Necrosis, 188, 345
Nephelium, 330
Nephralgia, 217, 248, 290
Nephritis, 230
Nephrotomy, 424
Nerves, 86, 88, 97, 497
Nervous diseases, 148
Nervous energy, 96
Nervous fever, 239
Nervous system, 97
Nettle rash, 352
Neuralgia, 171
Neurology, 86
Nickel, 490
Nightmare, 174
Nirles, 219
Nitric acid, 490
Nitrogen, 493, 500, 510
Nitrous acid, 492
Noli me tangere, 362
Nomenclature, 27
Nose, 88
Nursing, 421
Nutrients, 436
Nutrition, 113
Nyctalopia, 166
Nymphomania, 175

Oariocele, 379
Obstetrical disease, 402
Obstipatio, 262
Obstipitas, 300
Obstructio, 391
Odontalgia, 171, 199, 221
Oedema, 329
Oedema purulentum, 337
Oesophagotomy, 424
Oil, 493
Oleum sulfuratum, 463
Olibanum, 463
Oliva, 433
Onirodynia, 174
Opacity, 166
Operations, 422
Operations of medicine, 121
Ophthalmia, 203, 248, 313, 334
Ophthalmitis, 220
Opium, 475
Opopanax, 438
Opsialgia, 171
Organs of sense, 98
Origanum, 441
Orthography, 33
Orthopnoea, 184
Oscheocele, 304, 305, 308, 317
Osmium, 489
Ossificatio, 296
Osteology, 70
Ostocopus, 170, 296
Otalgia, 199, 396
Otitis, 220
Otorrhoea, 275
Overflowing, 273
Ovum, 433
Oxalic acid, 491
Oxyds, 61
Oxygen, 493
Oxymel, 433
Oxymuriatic acid, 493
Ozaena, 340

Padus, 544
Pain, 169
Palladium, 489
Palliation, 121
Palmus, 178
Palpitatio, 178
Palpitation, 178
Palsy, 152
Paludal fever, 245
Pancreatic sarcoma, 332
Papaver, 475
Papula, 328
Paracentesis, 424
Paracusis, 165, 166
Paralysis, 152
Paramorphiae, 295
Paraneurismi, 148
Paraphimosis, 302
Paraphonia, 157, 158
Paraphrenesis, 225
Paraphrosyne, 195
Paraphymata, 295
Paraplegia, 153
Paraplexia, 153
Parasitismus, 395
Parecerises, 262
Parenthesis, 37
Parhaemasiae, 197
Paris, 17
Paristhmitis, 221
Parkinson, 18
Parorchidium, 415
Parotitis, 220
Parotis, 199
Parturition, 115
Passions, 101
Pathematology, 101
Pathogony, 116
Pearson, 130
Pediculus, 395
Pellagra, 351
Pelvic fluids, 525
Pemphigus, 239, 244, 356
Percival, 53
Peripneumonia, 223
Peritonaeitis, 226
Peritonitis, 226
Pertussis, 183
Pessary, 423
Pestis, 244
Petechiae, 209
Petroleum, 441
Pharmacology, 425
PHARMACOPOEIA, 68
Pharmacy, 67
Phil. trans. 47
Phimosis, 302
Phlegmatia, 312, 328
Phlegmone, 199, 218
Phlymonous inflammation, 198
Phlogismi, 167
Phlogosis, 218, 328, 359, 363
Phlyctis, 337
Phlysis, 359
Phlyzacium, 336
Phoenigmus, 353
Phosphoric acid, 490
Phosphorous acid, 492
Phosphorus, 443, 493
Phrenitis, 219
Phrensy, 212
Phtharma, 295

Phthiriasis, 395, 396
Phthisis, 259
Phyma, 359
Phymatosis, 362
Physconia, 319, 321, 323, 329
Physical education, 420
Physiognomy, 102
Physiology, 93
Physiology of disease, 116
Physometra, 306
Pica, 283
Piles, 308
Pimenta, 441
Pimples, 347
Pine, 543
Piper, 441
Piso, 51, 122
Pityriasis, 349
Pix, 440, 463
Plague, 239
Platerus, 122
Platina, 488
Platina oxydium, 453
Pleuritis, 224
Pleurodyne, 172, 217
Plicatio, 384
Ploucquet, 42
Ploucquet nos. 126
Ploucquet's nosology, 36, 38
Plumbum, 467
Pneumatocele, 305
Pneumatosis, 304
Pneusis, 182
Podagra, 285
Poison, 393
Poisoned wounds, 390
Poliosis, 371
Polydipsia, 284
Polypus, 331
Polysarcia, 320
Pompholygmus, 355
Pompholyx, 355
Popular medicine, 137
Porrigo, 361
Porrum, 441
PORTERFIELD, 98
Potass, 483
Potassa, 429, 431
Potassae acetas, 459; nitras, 468; sulfas, 35, 455; supertartras, 455; tartras, 455
Pott, 53, 130
Practical anatomy, 93
Practical chemistry, 67
Practice of physic, 10, 20
Precipitation, 481
Pregnancy, 404
Premature labour, 408
Preparations, 68
Presentation, 407
Preservation of health, 420
Priapism, 197
PRINGLE, 135
Proctalgia, 201
Profession of physic, 45
Profusio, 205
Profusion, 205
Prolapsus, 379
Propellents, 455
Prosopalgia, 171
Protracted labour, 408
Protrusion, 379
Prunus, 456
Prurigo, 348
Pruritus, 172, 395
Prussic semiacid, 492
Psellismus, 158
Pseudoblepsis, 167,168
Pseudosyphilis, 396
Psora, 360
Psoriasis, 350
Psychology, 100
Psydracia, 396
Psydracium, 336
Pterocarpus, 468
Pterygium, 330
Ptyalismus, 273
Puberty, 115
Pudendagra, 172, 398
Puerperal fever, 410
Pulegium, 441
Pulex, 396
Pulpy tumour, 321
Pulsation, 181
Pulse, 223
Punctura, 387
Purpura, 353
Purulent fluids, 272
Pus, 120, 509, 545
Pustules, 359
Putrid fever, 239
Pyocele, 339
Pyrethrum, 448
Pyrexiae, 209
Pyrophoric substances 60
Pyrosis, 281, 282
Pyuria, 276

Quartana, 251, 252
Quassia, 451
Quercus, 468
Quotidiana, 247

Rachialgia, 296
Rachitis, 368
Radesyge, 366
Ramazzini, 52
Ranula, 303
Raphania, 188
Razors, 422
Reading, 20
Rec. pér. 48
Red rash, 352
Refrigerants, 466
Regeneration, 120
Remittents, 246, 248 250, 252
Resina, 463
Respiration, 106, 508
Rete mucosum, 543
Retention of the placenta, 409
Retentions, 262
Rhachitis, 368
Rhagas, 299
Rhamnus, 456
Rhatania, 469
Rheum, 454
Rheuma, 254, 255
Rheumatismus, 216
Rhodium, 489
Rhododendron, 445
Rhoeas, 475
Rhus radicans, 443
Richter, 43, 127, 136
Ricinus, 456
Rickets, 367
Rigidity, 190
Riverius, 51
Rosa, 438, 468
Rosa canina, 432
Rosa centifolia, 456
Roseola, 353
Rosmarinus, 438
Rothe, Handbuch, 42
Round worm, 398
Rubeola, 219
Rubia, 461
Rubor, 197
Rumination, 281
Running tetter, 359
Ruptura, 385
Rupture, 373
Rupture of the uterus, 410
Rush, 53
Ruta, 451

Sabina, 437, 461, 463
Saccharum, 433

Sagapenum, 488
Sagar, 126
Sago, 434
St. Vitus's dance, 186
Saliva, 512
Salix, 472
Salts, 66
Sambucus, 463, 468
Sandifort thes. 48
Sanguine diseases, 197
Sapo, 432, 441, 463, 464
Sarcoma, 308, 319, 326, 329
Sarcone, 124
Sarsaparilla, 445
Sassafras, 445
Satyriasis, 175
Sauvages, 33, 124
Scabies, 360, 396
Scald, 198
Scales, 349
Scalpel, 408
Scaly tetter, 349
Scammonia, 456
Scarlatina, 233, 243
Scarlet fever, 239
Scelotyrbe, 187
Schenkius, 122
Schmucker, 130
Sennertus, 51
Sciatica, 172
Scilla, 457
Scirrhus, 298, 326
Scolopendra, 396, 401
Scorbutus, 369
Scrofula, 259, 367
Scurvy, 369
Seamen, 136
Sea water, 435
Sebacic acid, 482
Secretion, 108, 507
Secretory diseases, 262
Secretory organs, 109
Section of the symphysis, 408
Sedatives, 476
Selle, 53, 123
Selle Pyretologia, 210
Semiacids, 66
Semicircular canals, 98
Semisalts, 67
Senecio, 466
Senega, 449
Senna, 456
Sensation, 96
Sensations, 99
Sequences of attraction, 494, 496
Serpentaria, 472
Setons, 424
Severinus, 122
Sevum, 433
Shells, 518
Shingles, 232
Short hand, 15
Shortsightedness, 167
Shrill voice, 157
Sialagogues, 447
Silica, 490, 493
Silver, 487
Simarouba, 468
Sinapis, 441
Singultus, 182
Sinovia, 518
Sinus, 341
Sivvens, 364
Skin, 523
Sleep, 101
Small pox, 234
Smell, 99
Smellie thes. 48
Sneezing, 107, 182
Snuffles, 254, 593
Soda, 431, 483
Sodae murias, 430
Sodae phosphas, 455
Sodae sulfas, 455
Soda tartarizata, 455
SOEMMERING, 70
Softness of bones, 296
Solid tumour, 321
Solvents, 291
Somnambulismus, 174
Sophocles explained, 89
Sorbefacients, 464
Sore throat, 213
Soul, 100
Sound, 98
Spartium, 459
Spasm, 178
Specific differences, 34
Specific inflammation, 198
Specifics, 479
Speech, 103, 158
Spermatocele, 304
Sphacelus, 344
Spigelia, 457
Spilosis, 370
Spilus, 370
Spina ventosa, 340, 345
Spiritus aetheris nitrici, 459
Spiritus vinosus, 444
Splanchnology, 76
Splenitis, 230
Splenocele, 378
Sponge, 422
Spongia, 464
Spontaneous cure, 119
Spots, 370
Squinting, 168
Stalpart, 123
Stanni nitromurias, 476
Stannum, 457
Staphisagria, 457
Staphyloma, 330
Stark, 53
Sternutatio, 182
Stitch, 172
Störck 124, 125
Stoll, 125, 126
Stomacace, 206
Stomach, 111
Stomachics, 450
Stone, 289, 529
Stoppage, 302
Strabismus, 168
Strain, 331
Stramonium, 476
Strangury, 264
Stricture, 300
Strontia, 482
Strophulus, 347
Structural diseases, 295
Study of physic, 1, 45
Styptics, 422
Styrax, 449
Suberic acid, 491
Subluxatio, 273
Submuriate of lead, 542
Succinic acid, 491
Succinum, 438
Sudamen, 337
Suette, 236
Suffocatio, 160
Suffusio, 167
Sulfur, 442, 456, 493
Sulfuric acid, 490; for burns, 202
Sulfurous acid, 491
Suppressio, 271
Suppuration, 120
Suppuratories, 462
Surgery, 129
Swieten, 123
Swietenia, 473
Swimming, 103
Swine pox, 238
Sydenham, 51
Sympathy, 101
Symptomatology, 118
Symptoms, 39
Syncope, 160
Synocha, 32, 214
Synochus, 233, 234
Synonyms, 38
Synopsis of diseases, 141
Syphilis, 364

Tabacum, 475
Tabes, 259
Taenia, 398, 399, 400
Tamarindus, 468
Tanning, 523
Tape worm, 398
Taraxacum, 464
Tartaric acid, 491
Tears, 523
Teeth, 423
Teething, 411
Tellurium, 489
Temperaments, 117
Temperature, 562
Tenesmus, 263, 398
Terebinthina, 442, 463
Tertiana, 248
Testae, 431
Tetanus, 192
Tetartophya, 252
Thea, 439, 478
Theden, 127
Therapeutics, 120
Thermometer, 562
Thlasis, 384
Thoman, 128
Thomas, 128
THOMSON, 56
Thorax, 424
Thought 101
Thread worm, 397
Thrush, 239
Tic douloureux, 171
Tin, 486
Tinea, 349, 350, 361
Tissot, 125
Titanium, 490
Tongue, 424
Tonics, 470
Tooth ache, 171
Tormentilla, 468, 543
Torpidity, 101
Touch, 99
Tourniquet, 423
Toxicodendron, 442
Tragacantha, 433
Transpositions, 415
Tremor, 157
Trepan, 423
Trepanning, 424
Trepanning the tibia, 425
Trichiasis, 380
Trichoma, 328
Trismus, 191
Trismus dolorificus, 171
Tritaeophya, 250, 251
Tr. soc. med. ch. kn. 49
Tubercles, 362
Tubercular sarcoma, 332
Tulpius, 122
Tungsten, 489
Tungstic acid, 491
Tussilago, 433
Tussis, 188, 395
Twins, 408
Tympanites, 305
Typhous fever, 239
Typhus, 235, 239

Ulcer, 341
Ulcus, 341
Ulmus, 472
UNDERWOOD, 134
Uranium, 489
Urea, 526
Urine, 525
Urticaria, 233, 352
Uvae, 433
Uva ursi, 468

Vaccina, 238
Valeriana, 428
Vandermonde, 38
Varicella, 238
Varieties, 27, 37
Varieties of mankind, 117
Variola, 236
Varix, 508
Vegetable food, 437
Venenatio, 393
Ventilation, 421
Veratrum, 440, 447
Vermination, 395
Verruca, 328
Vertigo, 173
Vesalius, 69
Vesicles, 357
Vessels, 79
Veterinary medicine, 137
Vibrations, 99
Vinum, 444
Viola, 457
Viscera, 77
Viscum, 473
Vision, 99
Vitiligo, 362
Vogel, 5, 45, 126
Voice, 103
Vomiting, 178
Vomitus, 179, 281
Voyages, 136
Vulnus, 386

Walking, 103
Walther, 70
Want of milk, 271
Ware, 131
Warner, 130
Wart, 322
Wasting, 163
Water, 434
Waterblebs, 355
Water brash, 280
Water in the head, 148
Weakness, 156
Webster, 125
Weights combining, 533
Werlhof, 52
West Indies, 574
Whites, 293
White swelling, 318
Whitlow, 202
WILLAN, 346
Willan, 36, 38, 128
Willis, 51, 122
Willow, 543
Wilmer, 130
Wind, 562, 568
WINSLOW, 69
Wintera, 473
Wollaston, 551
Wool, 550
Works of single authors, 50
Wound, 386

Xanthoxylum, 454, 464

Yaws, 362
Yellow fever, 234, 246
Young's nat. phil. 57
Young's syllabus, 55

Zimmermann, 45
Zinc, 486
Zinci acetas, 455
Zincum, 463 472,
Zingiber, 442
Zirconia, 485.

THE END.

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