

ORDER XXVIII.—BINOXIDE OF MANGANESE.

MANGANESE BINOXIDE.—BINOXIDE OF MANGANESE.

(Manganesii Oxidum, E.)

**HISTORY.**—Native binoxide of manganese has been long known and used in the manufacture of glass (*Magnesia Vitriariorum*;) but until Kaim, in 1770, succeeded in extracting a peculiar metal from it, it was usually regarded as an ore of iron. It is commonly termed *Native Black* or *Peroxide of Manganese*, or for brevity *Manganese*.

**NATURAL HISTORY.**—The oxide of manganese used in chemistry and pharmacy is the native anhydrous binoxide, called by mineralogists *Pyrolusite*. It is found in great abundance in Cornwall, Devonshire, Somersetshire, and Aberdeenshire, from whence most of what is met with in commerce in this country is obtained. The principal mines of it are in the neighbourhood of Launceston, Lifton, and Exeter. The Upton Pyne mine, once celebrated for its oxide of manganese, has yielded scarcely any for several years past, if, indeed, it be not completely worked out. Pyrolusite is also found in Saxony, Hungary, France, and other countries of Europe.

**PREPARATION.**—Native binoxide of manganese after being raised from the mine is broken into small pieces, about the size of peas, and then washed to separate the earthy impurities. It is afterwards ground in mills to an impalpable powder.

**PROPERTIES.**—This mineral occurs massive, columnar, crystallized, and pulverulent: the form of the crystals is the right rhombic prism. The massive variety has sometimes a metallic lustre, but is generally dull and earthy: its colour is iron black or brownish: it soils the fingers in handling it: its sp. gr. varies from 4.6 to 4.9: it is tasteless, odourless, and insoluble in water: it yields a black powder.

**Characteristics.**—When heated it yields oxygen gas. Mixed with common salt and sulphuric acid it gives out chlorine. Heated with sulphuric acid it evolves oxygen, and forms a sulphate of the protoxide of manganese. It is infusible before the blow-pipe; dissolves in fused borax with effervescence, and colours the globule of an amethystine colour. If it be digested in hydrochloric acid until chlorine cease to be evolved, and the solution be slightly supersaturated with ammonia, we get rid of the sesquioxide of iron: the filtered liquid throws down a white precipitate with ferrocyanide of potassium.

**COMPOSITION.**—Pure binoxide of manganese has the following composition:—

	Atoms.	Eq. Wt.	Per Cent.	Forchhammer.	Berzelius and Arfvedson.
Manganese .....	1	28	63.5	63.75	64.02
Oxygen .....	2	16	36.5	36.25	35.98
Binoxide of Manganese. 1		44	100.0	100.00	100.00

**PURITY.**—The native binoxide is, however, never pure: it usually contains oxide of iron, carbonate of lime, sulphate of baryta, and argillaceous matter. Its purity is judged of by the quantity of oxygen which it is capable of yielding; or of the quantity of chlorine set free when this oxide and hydrochloric acid are allowed to act on each other. The quantity of chlorine set free can be estimated by the quantity of protosulphate of iron which it peroxidizes. (Graham, *Elements of Chemistry*, p. 536.) The brown varieties are inferior to the black ones.

Muriatic acid aided by heat dissolves it almost entirely, disengaging chlorine: heat disengages oxygen. *Ph. Ed.*

**PHYSIOLOGICAL EFFECTS.**—The effects of this substance are imperfectly known.  
VOL. I.—90

Kapp (*Hufeland's Journ.* Bd. xix. St. 1, S. 176.) first employed it internally. He regards it as a permanent stimulant, and says it promotes the appetite and digestion. Vogt (*Pharmycodynamik.*) places it among the tonics, and considers it to be intermediate between iron and lead, but his views are altogether theoretical, as he does not seem to have employed it. Dr. Coupar (*Brit. Ann. of Med.* Jan. 13, 1837, p. 41.) has described several cases of disease which took place among the men engaged in grinding it at the chemical works of Messrs. Tennant and Co., in Glasgow: from these it appears that, when slowly introduced into the system, it produces paralysis of the motor nerves. The disease commences with symptoms of paraplegia. It differs from the paralysis of lead in not causing colica pictonum or constipation, and from mercury in first affecting the lower extremities, and in not exciting tremors of the affected part. C. G. Gmelin (*Versuche, ü d. Wirkungen, &c.*) tried the effect of the sulphate of the protoxide of manganese on animals, and found that it caused vomiting, paralysis, without convulsions, and inflammation of the stomach, small intestines, liver, spleen, and heart. Gmelin observes, as remarkable, "the extraordinary secretion of bile produced by it, and which was so considerable that nearly all the intestines were coloured yellow by it, and the large intestines had a wax-yellow colour communicated to them." (*Op. cit.* 90.) It deserves notice, in connexion with this effect, that the *sel désopilant* of Rouvière, used as a quack remedy to evacuate bile, contains chloride of manganese. (*Journ. de Chim. Méd.* v. 534.)

Dr. Thomson has seen an ounce of the sulphate swallowed without any effect, except the free action of the bowels. (Coupar, *op. cit.*) Hünefeld (Horn's *Archiv. f. Med. Erf.* 1830, quoted by Wibmer, *Wirk. d. Arzn.*) gave to a rabbit nearly two drachms of manganic acid, in three days, in doses of ten or fifteen grains. The only obvious effect was increased secretion of urine. The animal being killed, the peritoneum and external coat of the colon was found of a greenish colour [protoxide of manganese is green,] the muscles were readily lacerated and pale, the liver was inflamed, the bile increased. Wibmer (*Op. cit.*) gave six grains daily of the carbonate of the protoxide of manganese to a rabbit during many weeks. No disturbance of function was observed. The animal was killed, but neither in the blood nor the muscles could the least trace of manganese be detected.

USES.—It is rarely employed in medicine. Kapp (*Op. cit.*) administered it, as well as the salts of manganese, internally as well as externally in the various forms of syphilis. In herpes, scabies, and the scorbutic diathesis, he used it with benefit. Brera (Harless, *Neues Journ. d. Ausl. Med. Lit.* Bd. viii. St. 2, S. 57.) used it in chlorosis, scorbutus, hypochondriasis, hysteria, &c. Otto (Froriep's *Notizen*, Bd. xii. No. 22, S. 347.) administered it in cachectic complaints with favourable results. Odier (*Handb. d. pr. Arzneiwiss.* quoted by Richter.) employed it in cardialgia. It has been applied as an absorbent in the treatment of old ulcers, as a depilatory, and as a remedy for skin diseases, especially itch and porrigo. (Rayer, *Treat. on Skin Diseases*, by Willis, p. 58.)

ADMINISTRATION.—Internally it has been given in the form of pills, in doses varying from three grains to a scruple, three or four times in the day. As a local agent it has been used in the form of gargle, composed of two or three drachms of the oxide diffused through five or six ounces of barley water. An ointment, consisting of one or two drachms of oxide to an ounce of lard, has also been used.

In chemistry and pharmacy it is employed in the manufacture of oxygen, chlorine, and iodine. In the arts it is used by the bleacher for the production of chlorine; by the glass-maker to destroy the brown colour communicated to glass by iron; and to give an amethystine tint to plate-glass; and by the potter for colouring earthenware.



T  
SUB  
ILL  
FRA  
and  
revis  
" A  
that  
*liber*  
beaut  
trate  
long  
they  
Plate  
fix th  
to na  
" H  
persp  
convi  
we cr  
Scien

T  
PA  
Prof  
delp  
Hos  
Circ  
of th  
glio  
Dise  
Th  
eases  
in su  
View  
of th  
Dise

A  
NE  
edit  
sive

WORKS ON  
MEDICINE, SURGERY,  
ANATOMY, MIDWIFERY,  
AND THE COLLATERAL SCIENCES,

PUBLISHED BY  
LEA & BLANCHARD,  
PHILADELPHIA,  
AND FOR SALE BY ALL BOOKSELLERS.

~~~~~  
MIDWIFERY ILLUSTRATED.

THE PRINCIPLES AND PRACTICE OF OBSTETRIC MEDICINE AND SURGERY, IN REFERENCE TO THE PROCESS OF PARTURITION; ILLUSTRATED BY ONE HUNDRED AND FORTY-TWO FIGURES. BY FRANCIS H. RAMSBOTHAM, M.D., Physician to the Royal Maternity Charity, and Lecturer on Midwifery at the London Hospital, &c. Second American edition, revised, in one large octavo volume.

"Among the many literary undertakings with which the Medical press at present teems, there are few that deserve a warmer recommendation at our hands than the work—we might almost say the *obstetrical library*, comprised in a single volume—which is now before us. Few works surpass Dr. Ramsbotham's in beauty and elegance of getting up, and in the abundant and excellent Engravings with which it is illustrated. We heartily wish the Volume the success which it merits, and we have no doubt that before long it will occupy a place in every Medical Library in the kingdom. The Illustrations are admirable; they are the joint production of Bagg and Adlard; and comprise, within the series, the best Obstetrical Plates of our best obstetrical authors, ancient and modern. Many of the Engravings are calculated to fix the eye as much by their excellence of execution and their beauty as works of art, as by their fidelity to nature and anatomical accuracy."—*The Lancet*.

"It is a good and thoroughly Practical Treatise; the different subjects are laid down in a clear and perspicuous form, and whatever is of importance is illustrated by first-rate Engravings. As a work conveying good, sound, practical precepts, and clearly demonstrating the doctrines of Obstetrical Science, we can confidently recommend it either to the Student or Practitioner."—*Edinburgh Journal of Medical Science*.

~~~~~  
DUNGLISON'S PRACTICE OF MEDICINE.

THE PRACTICE OF MEDICINE; OR A TREATISE ON SPECIAL PATHOLOGY AND THERAPEUTICS; BY ROBLEY DUNGLISON, M.D., Professor of the Institutes of Medicine, &c., in the Jefferson Medical College, Philadelphia; Lecturer on Clinical Medicine, and attending Physician at the Philadelphia Hospital, &c.; containing, the Diseases of the Alimentary Canal—the Diseases of the Circulatory Apparatus—Diseases of the Glandular Organs—Diseases of the Organs of the Senses—Diseases of the Respiratory Organs—Diseases of the Glandiform Ganglions—Diseases of the Nervous System—Diseases of the Organs of Reproduction—Diseases involving various Organs, &c., &c. In two volumes, octavo.

The object of this work is to place before the Practitioner and Student a Treatise on the various Diseases of the Human Organism, which shall comprise the Symptoms, Causes, Prognostics and Treatment, in such form as to be easy of reference, and a trustworthy guide in practice. It contains not only the Views of the Author, on all those points, derived from extensive opportunities for observation, but those of the distinguished observers of the day in every part of the world; and treats of a greater number of Diseases than perhaps any other "Practice of Medicine."

~~~~~  
ANATOMY—SPECIAL AND GENERAL.

A TREATISE ON SPECIAL AND GENERAL ANATOMY, BY W. E. HORNER, M. D., Professor of Anatomy in the University of Pennsylvania, &c. &c. Fifth edition, revised and much improved. In two volumes octavo. This work is extensively used as a text-book throughout the Union.

LEA & BLANCHARD'S PUBLICATIONS.

A MEDICAL LIBRARY  
FOR THE PRACTITIONER AND STUDENT.

A SYSTEM OF PRACTICAL MEDICINE, Comprised in a Series of Original Dissertations, arranged and edited by ALEXANDER TWEEDIE, M.D., F.R.S., &c., &c. The whole revised, with Notes and Additions, by W. W. GERHARD, M.D., Lecturer on Clinical Medicine to the University of Pennsylvania. The second American Edition, now complete in Three large Volumes.

The design of this work is to supply the want, generally admitted to exist in the Medical Literature of Great Britain, of a comprehensive System of Medicine, embodying a condensed, yet ample view of the Present State of the Science. The desideratum is more especially felt by the Medical Student, and by many Members of the Profession, who, from their avocations and other circumstances, have not the opportunity of keeping pace with the more recent improvements in the most interesting and useful branch of human knowledge. To supply this deficiency is the object of the LIBRARY OF MEDICINE; and the Editor expresses the hope, that with the assistance with which he has been favoured by contributors, (many of great eminence, and all favourably known to the Public), he has been able to produce a work, which will form a Library of General Reference on Theoretical and Practical Medicine, as well as a Series of Text-Books for the Medical Student.

*Advertisement of the American Publishers to their New Edition in Three Volumes.*

The matter embraced in the Three Volumes now presented, was published in London in Five separate volumes, and at intervals republished in this country. The rapid sale of these volumes, embracing as they do, a History of Practical Medicine, is the best evidence of the favour with which it has been received by the Physicians of the United States. Embodying as it does the most recent information on nearly every Disease, and written by men who have specially devoted themselves to the study of the Disorders which form the subject of their Articles, the work is the most valuable for Reference within the reach of a Practitioner. The arrangement of the LIBRARY into Classes of Diseases, grouped according to the cavities of the body, is much more agreeable to the reader than the alphabetical order, and nearly as convenient for reference.

~~~~~  
DISEASES OF CHILDREN.

A TREATISE ON THE PHYSICAL AND MEDICAL TREATMENT OF CHILDREN, BY WILLIAM P. DEWEES, M.D., late Professor of Midwifery in the University of Pennsylvania, &c. &c. The Eighth Edition, brought up to 1843, in 1 vol. 8vo.

This edition embodies the notes and additions prepared by Dr. Dewees before his death, and will be found much improved.

The objects of this work are, 1st, to teach those who have the charge of children, either as parent or guardian, the most approved methods of securing and improving their physical powers. This is attempted by pointing out the duties which the parent or the guardian owes for this purpose, to this interesting but helpless class of beings, and the manner by which their duties shall be fulfilled. And 2d, to render available a long experience to those objects of our affection when they become diseased. In attempting this, the author has avoided as much as possible, "technicality;" and has given, if he does not flatter himself too much, to each disease of which he treats, its appropriate and designating characters, with a fidelity that will prevent any two being confounded together, with the best mode of treating them, that either his own experience or that of others has suggested. Physicians cannot too strongly recommend the use of this book in all families.

~~~~~  
A NEW WORK,—DUNGLISON'S  
THERAPEUTICS AND MATERIA MEDICA.

GENERAL THERAPEUTICS AND MATERIA MEDICA, ADAPTED FOR A MEDICAL TEXT-BOOK, BY ROBLEY DUNGLISON, M.D., Professor of Institutes of Medicine, &c., in 2 vols. 8vo.—*Just ready.*

A second edition of the work on General Therapeutics, being called for by the publishers, the author has deemed it advisable to incorporate with it an account of the different articles of the Materia Medica. To this he has been led by the circumstance, that the departments of General Therapeutics and Materia Medica are always associated in the Medical Schools. The author's great object has been to prepare a work which may aid the Medical Student in acquiring the main results of modern observation and reflection; and, at the same time, be to the Medical Practitioner a trustworthy book of reference.

Throughout, he has adopted the Nomenclature of the last edition of the Pharmacopoeia of the United States, a work which ought to be in the hands of every practitioner as a guide in the preparation of medicines; and he has endeavoured to arrange the articles in each division, as nearly as he could, in the order of their efficacy as Therapeutical agents.

~~~~~  
DEWEES' MIDWIFERY.

A COMPENDIOUS SYSTEM OF MIDWIFERY, chiefly designed to facilitate the inquiries of those who may be pursuing this branch of study. Illustrated by occasional cases, with many plates. The tenth edition, with additions and improvements, by W. P. DEWEES, M.D., late Professor of Midwifery in the University of Pennsylvania, in one volume 8vo.

LEA & BLANCHARD'S PUBLICATIONS.

A NEW WORK ON ANATOMY,

WITH ONE HUNDRED AND SEVENTY ILLUSTRATIONS.

A SYSTEM OF HUMAN ANATOMY, GENERAL AND SPECIAL, BY ERASMUS WILSON, M.D., Lecturer on Anatomy, London. The American edition, edited by PAUL B. GODDARD, A.M., M.D., Demonstrator of Anatomy in the University of Pennsylvania, &c.; with one hundred and seventy illustrations on wood, by Gilbert, from designs prepared expressly for this work, by Bagg, printed from the second London edition, in 1 vol. 8vo.—*Just ready.*

"An elegant edition of one of the most useful and accurate Systems of Anatomical Science, which has been issued from the press. The illustrations are really beautiful, and their execution reflects the highest credit on the able American artist who copied them for this edition of the work. In its style the work is extremely concise and intelligible. Dr. Goddard has added a number of valuable notes, and has made some judicious alterations of names. No one can possibly take up this volume without being struck with the great beauty of its mechanical execution, and the clearness of the descriptions which it contains is equally evident. Let Students, by all means, examine the claims of this work on their notice, before they purchase a text-book of the vitally important science which this volume so fully and easily unfolds."—*Lancet.*

HOPE ON THE HEART—WITH PLATES.

A TREATISE ON THE DISEASES OF THE HEART AND GREAT VESSELS, AND ON THE AFFECTIONS WHICH MAY BE MISTAKEN FOR THEM, COMPRISING THE AUTHOR'S VIEW OF THE PHYSIOLOGY OF THE HEART'S ACTION AND SOUNDS, AS DEMONSTRATED BY HIS EXPERIMENTS ON THE MOTIONS AND SOUNDS IN 1830, AND ON THE SOUNDS IN 1834-5, BY J. HOPE, M.D., F.R.S., of St. George's Hospital; formerly Senior Physician to the Marylebone Infirmary; Extraordinary Member, and formerly President, of the Royal Medical Society of Edinburgh, &c. First American from the Third London Edition, with Notes and a detail of recent Experiments, by C. W. PENNOCK, M.D., Attending Physician to the Philadelphia Hospital, Blackley. In 1 vol. 8vo.

"The addition of one-third of new matter to the present volume, and the care with which the whole has been revised and corrected, will, I trust, sufficiently prove my respect for the favourable opinion of my professional brethren, as evinced, not in this country only, but also on the European and American continents, by the sale of no less than six or seven editions and translations in as many years."—*Extract from Preface.*

MEDICAL REMEDIES.

NEW REMEDIES. THE METHOD OF PREPARING AND ADMINISTERING THEM; THEIR EFFECTS UPON THE HEALTH AND DISEASED ECONOMY, &c. &c., BY PROFESSOR ROBLEY DUNGLISON. Fourth edition, brought up to 1843. In one volume octavo.

This work contains articles that have been recently introduced into the *Materia Medica*; or old articles that have received new applications, some of these are in the general works on *Materia Medica*, but their properties are only briefly referred to. In this work, the experience of individuals is extensively given, with reference to the original papers. Under Iodine, for example, all the information—pharmaceutical and therapeutical—up to the time of the publication of the work, is afforded, with the prescriptions that have been proposed by various observers; each successive edition has incorporated with it the result of recent experience, and is therefore "new."

MIDWIFERY WITH CUTS, A LATE WORK.

A SYSTEM OF MIDWIFERY, WITH NUMEROUS WOOD CUTS, BY EDWARD RIGBY, M.D., Physician to the General Lying-in Hospital, Lecturer on Midwifery at St. Bartholomew's Hospital, &c., with notes and additional Illustrations, by an American Practitioner. In one volume.

The late Professor Dewees, into whose hands this volume was placed a few weeks before his death, in returning it, expressed the most favourable opinion of its merits. The judgment of such high authority should commend it to general favour.

DISEASES OF FEMALES.

A TREATISE ON THE DISEASES OF FEMALES, WITH NUMEROUS ENGRAVINGS, BY THE LATE PROFESSOR W. P. DEWEES, in one volume 8vo—the Seventh Edition, revised and corrected.

**DISEASES OF FEMALES, PREGNANCY AND CHILDBED.**

THE PRINCIPAL DISEASES OF FEMALES, TOGETHER WITH THE DISEASES INCIDENT TO PREGNANCY AND CHILDBED, CHIEFLY FOR THE USE OF STUDENTS, BY FLEETWOOD CHURCHILL, M.D., Lecturer on Midwifery and Diseases of Women and Children, in the Richmond Hospital, School of Medicine, &c. &c., with Notes and Additions by R. M. HUSTON, M.D., Professor, &c. in the Jefferson Medical College. Second American Edition, in 1 vol. 8vo.—*Just ready.*

**DUNGLISON'S PHYSIOLOGY—WITH ILLUSTRATIONS.**

HUMAN PHYSIOLOGY, ILLUSTRATED WITH OVER TWO HUNDRED ENGRAVINGS ON WOOD; BY PROFESSOR ROBLEY DUNGLISON; the fourth edition with numerous additions and modifications, in 2 vols. 8vo.

This work is occupied with the functions executed by healthy man. It embraces a general exposition of the functions; the new views entertained in regard to the formation of the tissues; but is especially intended to give an accurate view of the actions of the different organs, as an introduction to the study of pathology, hygiene and therapeutics. It treats moreover, of the anatomy of the organs so far as is necessary for a full understanding of the functions; and is largely illustrated by appropriate engravings. The last edition contains several additional illustrations to elucidate either topics that have been already touched upon in the work, or such as are new. Every effort has been made to place the work, in all respects, on a level with the existing state of the science.

**THE DISEASES OF THE EYE.**

A TREATISE ON THE DISEASES OF THE EYE, BY W. LAWRENCE, Surgeon Extraordinary to the Queen, &c., from the last London Edition, with numerous additions, and sixty-seven Illustrations, many of which are from original drawings. By ISAAC HAYS, M.D., Surgeon to the Wills Hospital, &c., &c., in 1 vol. 8vo.—*Just ready.*

The character of this work is too well established to require a word of commendation—it is justly considered the best on the subject. The present is a reprint of the last London Edition, which appeared in 1841, completely revised and greatly enlarged by the author—and to it considerable additions have been made by the editor. Several subjects omitted in the original are treated of in this edition, on which occasion free use has been made of the work of Mackenzie, to which is added the editor's own experience, derived from many years' attention to the subject.

**THE URINARY ORGANS, &c.**

LECTURES ON THE DISEASES OF THE URINARY ORGANS, BY SIR B. C. BRODIE, BART. F.R.S. From the Third London Edition, with alterations and additions, a small 8vo. volume.—*Now ready.*

The work has throughout been entirely revised, some of the author's views have been modified, and a considerable proportion of new matter has been added, among which is a Lecture on the Operation of Lithotomy.

**RICORD ON VENEREAL.**

A PRACTICAL TREATISE ON VENEREAL DISEASES; OR, CRITICAL AND EXPERIMENTAL RESEARCHES ON INOCULATION, APPLIED TO THE STUDY OF THESE AFFECTIONS; WITH A THERAPEUTICAL SUMMARY AND SPECIAL FORMULARY, BY PH. RICORD, M.D., Surgeon of the Venereal Hospital of Paris, Clinical Professor of Special Pathology, &c. Translated from the French, by Henry Pilkington Drummond, M.D., in one volume.—*Now ready.*

**LAWRENCE ON RUPTURES.**

A TREATISE ON RUPTURES, BY W. LAWRENCE, F.R.S., Author of a Treatise on the Diseases of the Eye, &c. &c., from the Fifth London Edition, considerably enlarged. In 1 vol. 8vo.—*Now ready.*

The peculiar advantage of the treatise of Mr. Lawrence is, that he explains his views on the anatomy of hernia, and the different varieties of the disease, in a manner which renders his book peculiarly useful to the student. It must be superfluous to express our opinion of its value to the surgical practitioner. As a treatise on hernia, presenting a complete view of the literature of the subject, it stands in the first rank.—*Edinburgh Medical and Surgical Journal.*



LEA & BLANCHARD'S PUBLICATIONS.

### MEDICAL LEXICON, BROUGHT UP TO 1842.

A NEW DICTIONARY OF MEDICAL SCIENCE; Containing a concise account of the various Subjects and Terms, with the French and other Synonymes, and Formulæ for various Official and Empirical Preparations, &c. Third Edition, brought up to 1842. BY ROBLEY DUNGLISON, M.D., Professor in the Jefferson Medical College, &c. In One Volume, royal 8vo.

"The present undertaking was suggested by the frequent complaints, made by the author's pupils, that they were unable to meet with information on numerous topics of Professional Inquiry,—especially of recent introduction,—in the medical dictionaries accessible to them.

"It may, indeed, be correctly affirmed, that we have no dictionary of medical subjects and terms which can be looked upon as adapted to the state of the science. In proof of this the author need but to remark, that he has found occasion to add several thousand Medical Terms, which are not to be met with in the only medical lexicon at this time in circulation in this country.

"The present edition will be found to contain many hundred Terms more than the first, and to have experienced numerous Additions and Modifications.

"The author's object has not been to make the work a mere lexicon or dictionary of terms, but to afford, under each, a condensed view of its various medical relations, and thus to render the work an epitome of the existing condition of Medical Science."

This New Edition includes, in the body of the work, the Index or Vocabulary of Synonymes that was in the former Editions printed at the end of the Volume, and embraces many Corrections, with the addition of many New Words.

### PEREIRA'S MATERIA MEDICA,

EDITED BY DR. CARSON, WITH NEAR THREE HUNDRED ENGRAVINGS ON WOOD.

ELEMENTS OF MATERIA MEDICA AND THERAPEUTICS; COMPREHENDING THE NATURAL HISTORY, PREPARATION, PROPERTIES, COMPOSITION, EFFECTS, AND USES OF MEDICINES, BY JONATHAN PEREIRA, M.D., F.R.S., Assistant Physician to the London Hospital, &c.

Part I, contains the General Action and Classification of Medicines, and the Mineral Materia Medica. Part II, the Vegetable and Animal Kingdoms, and including diagrams explanatory of the Processes of the Pharmacopœias, a Tabular view of the History of the Materia Medica, from the earliest times to the present day, and a very copious index. From the Second London Edition, which has been thoroughly revised, with the Introduction of the Processes of the New Edinburgh Pharmacopœia, and containing additional articles on Mental Remedies, Light, Heat, Cold, Electricity, Magnetism, Exercise, Dietetics, and Climate, and many additional Wood Cuts, illustrative of Pharmaceutical Operations, Crystallography, Shape and Organization of the Fœtus of Commerce, and the Natural History of the Materia Medica.

The object of the author has been to supply the Medical Student with a Class Book on Materia Medica, containing a faithful outline of this Department of Medicine, which should embrace a concise account of the most important modern discoveries in Natural History, Chemistry, Physiology, and Therapeutics in so far as they pertain to Pharmacology, and treat the subjects in the order of their natural historical relations.

This great *Library or Cyclopædia of Materia Medica* has been fully revised, the errors corrected, and numerous additions made, by DR. JOSEPH CARSON, Professor of Materia Medica and Pharmacy in the "College of Pharmacy," and forms Two Volumes, octavo, of near 1600 large and closely-printed pages; and it may be fully relied upon as a permanent and standard work for the country,—embodying, as it does, full references to the U. S. Pharmacopœia and an account of the Medicinal Plants indigenous to the United States.

### PRINCIPLES AND PRACTICE OF SURGERY, WITH CUTS.

THE PRINCIPLES AND PRACTICE OF MODERN SURGERY, BY ROBERT DRUITT. From the Second London Edition, illustrated with fifty wood engravings, with notes and comments by JOSHUA B. FLINT, M.D., in one volume 8vo., at a low price.

#### EXTRACT FROM THE AUTHOR'S PREFACE.

"The arrangement of a work of this kind ought not, as I conceive, to be regarded as a matter of mere indifference, or at most of convenience, but it ought to embody in it something of a principle; and I believe that the arrangement of this work may be useful to the student, by showing him in what order he may best prosecute his researches into the principles of his profession.

"Of the five parts into which it is divided, the first two are more especially devoted to the principles, and the three others to the practice of surgery. The first part treats of the disturbances of the constitution at large, that may be produced by injury or disease of a part; beginning with the simple faintness or collapse that follows a blow, and proceeding to consider the varieties of fever and tetanus.

"The second part describes what may be called the elements of local disease; that is to say, those morbid changes of structure or function, which are produced either immediately by external causes, or secondarily, through some deviation from health, &c.

"The third part treats of the various kinds of injuries, beginning with the simplest mechanical injuries; then proceeding to the effects of chemical agents, and lastly, considering the effects of animal poisons, &c.

"The fourth part considers the various tissues, organs, and regions of the body in order, and describes the various accidents they are liable to, &c.

"The fifth part describes such of the operations as were not included in the former parts, &c.

"To the whole is appended a collection of formulæ, the number of which is very much increased in this edition."

LEA & BLANCHARD'S PUBLICATIONS.

FEVERS OF THE UNITED STATES.

THE HISTORY, DIAGNOSIS AND TREATMENT OF TYPHOID AND TYPHUS FEVER, WITH AN ESSAY ON THE DIAGNOSIS OF BILIOUS REMITTENT AND OF YELLOW FEVER, BY ELISHA BARTLETT, M.D., Professor of the Theory and Practice of Medicine in the Transylvania University. In one volume 8vo; a new work.

Notice has already been given of the appearance of this work; we have become satisfied of its sterling value, and, therefore, without hesitation, feel justified in again recommending it to the immediate notice of practitioners.—*Boston Medical and Surgical Journal.*

MÜLLER'S PHYSIOLOGY.

ELEMENTS OF PHYSIOLOGY; BY J. MÜLLER, M.D., Professor of Anatomy and Physiology in the University of Berlin, &c. Translated from the German by WILLIAM BALY, M.D., Graduate in Medicine of the University of Berlin. Arranged from the Second London Edition by JOHN BELL, M.D., Lecturer on Materia Medica and Therapeutics, &c., &c. In One Volume, 8vo.—*Just ready.*

In arranging the Volume now offered to American readers, from the materials furnished in MÜLLER'S ELEMENTS OF PHYSIOLOGY, the Editor has endeavoured to procure reduction in size, of this latter, without any abstraction of its vitality and mind. With this view he has omitted, for the most part, mere disquisitions, many details of experiments, matters of physics and natural philosophy, including mechanics under the head of locomotion, acoustics and the theories of music under voice and hearing, and of optics under vision,—much of the minutiae of comparative physiology, and metaphysics or metaphysico-physiology. But, while excluding details on collateral topics, the Editor has been particularly careful to preserve Physiology Proper, which, resting on the basis of Histogeny and General Anatomy, derives important aid from Organic Chemistry and Microscopical Observations, and in its turn serves to illustrate Hygiene, Pathology and Therapeutics. Thus aided and thus applied, in the manner exhibited by Müller himself, Physiology will invite the attention of the Student in these pages.

It will soon be discovered that, although this volume is an abridgement of the large work of Müller, it may rightfully claim to be considered a complete system of Physiology, exceeding in copiousness and comprehensive details, any other work on the same subject which has yet emanated from the London press.

ELEMENTS OF PHYSICS—WITH WOOD-CUTS.

ELEMENTS OF PHYSICS, OR NATURAL PHILOSOPHY, GENERAL AND MEDICAL. A New Edition, complete in One Volume, written for universal use, in plain and non-technical language, and containing New Disquisitions and Practical Suggestions; comprised in Five Parts: 1. Somatology, Statics and Dynamics. 2. Mechanics. 3. Pneumatics, Hydraulics and Acoustics. 4. Heat and Light. 5. Animal and Medical Physics. By NEIL ARNOTT, M.D., of the Royal College of Physicians. A New Edition, revised and corrected from the last English Edition; with additions by ISAAC HAYS, M.D., and numerous Wood-cuts.

PRACTICAL MINERALOGY AND GEOLOGY—WITH CUTS.

A TEXT-BOOK OF GEOLOGY AND MINERALOGY, WITH INSTRUCTIONS FOR THE QUALITATIVE ANALYSIS OF MINERALS. BY JOSHUA TRIMMER, F.G.S., with Two Hundred and Twelve Wood-cuts. A handsome Octavo Volume, bound in embossed cloth.

This is a Systematic Introduction to Mineralogy and Geology, admirably calculated to instruct the Student in those sciences. The Organic Remains of the various Formations are well illustrated by numerous Figures, which are drawn with great accuracy.

ELLIS'S MEDICAL FORMULARY IMPROVED.

THE MEDICAL FORMULARY OF DR. ELLIS; being a COLLECTION OF PRESCRIPTIONS, derived from the Writings and Practice of many of the most eminent Physicians in America and Europe. To which is added an Appendix, containing the usual Dietetic Preparations and Antidotes for Poisons; the whole accompanied with a few brief Pharmaceutic and Medical Observations. By BENJAMIN ELLIS, M.D. The Sixth Edition, completely revised, with many Additions and Modifications, and brought up to the present improved state of the Science; by SAMUEL GEORGE MORRIS, M.D., Professor in the Pennsylvania College of Medicine, &c., &c. In One Octavo Volume.

LEA & BLANCHARD'S PUBLICATIONS.

PRINCIPLES OF MEDICINE.

THE FIRST PRINCIPLES OF MEDICINE, BY ARCHIBALD BILLING, M.D., A.M., Member of the Senate of the University of London, Fellow of the Royal College of Physicians, &c., &c. In One Volume, 8vo. First American from the Fourth London Edition.

"We know of no book which contains within the same space so much valuable information, the result not of fanciful theory, nor of idle hypothesis, but of close, persevering Clinical Observation, accompanied with much soundness of judgment, and extraordinary clinical tact."—*Medico-Chirurgical Review*.

A TREATISE ON FEVER. By Southwood Smith, M.D., Physician to the London Fever Hospital, fourth American edition. In one volume octavo.

COATES'S POPULAR MEDICINE, OR FAMILY ADVISER, consisting of Outlines of Anatomy, Physiology, and Hygiene, with such Hints on the Practice of Physic, Surgery, and the Diseases of Women and Children, as may prove useful in families when regular Physicians cannot be procured: being a Companion and Guide for intelligent Principals of Manufactories, Plantations, and Boarding Schools; Heads of Families, Masters of Vessels, Missionaries, or Travellers; and a useful Sketch for Young men about commencing the Study of Medicine. By Reynell Coates, M.D.

This work is designed to supply the place of Ewells' Medical Companion, which is now entirely out of print.

OUTLINES OF A COURSE OF LECTURES ON MEDICAL JURISPRUDENCE. By Thomas Stewart Traill, M.D., with notes and additions. A small volume.

A PRACTICAL TREATISE ON MEDICAL JURISPRUDENCE, with so much of Anatomy, Physiology, Pathology, and the Practice of Medicine and Surgery, as are Essential to be known by Members of the Bar and Private Gentlemen; and all the Laws relating to Medical Practitioners; with Explanatory Plates. By J. Chitty, Esq., second American edition, with notes and additions adapted to American Works and Judicial Decisions. In One Volume Octavo.

A TREATISE ON PULMONARY CONSUMPTION, comprehending an Inquiry into the Nature, Causes, Prevention and Treatment of Tuberculous and Scrofulous Diseases in General. By James Clark, M.D., F.R.S.

A PRACTICAL TREATISE ON THE HUMAN TEETH, showing the causes of their destruction and the means of their preservation, by William Robertson. With plates. First American from the second London Edition. In one volume octavo.

ANATOMY, PHYSIOLOGY, AND DISEASES OF THE TEETH. By Thomas Bell, F.R.S., F.L.S., &c. Third American edition. In one volume octavo, with numerous plates.

DISSERTATIONS ON NERVOUS DISEASES. By Drs. James Hope, J. C. Prichard, John Hughes Bennett, Robert H. Taylor and Theophilus Thomson. In one volume octavo.

DISSERTATIONS ON DISEASES OF THE ORGANS OF RESPIRATION. By Drs. Williams, Theophilus Thomson, W. B. Carpenter, and W. Bruce Joy. In one volume octavo.

DISSERTATIONS ON FEVERS, GENERAL PATHOLOGY, INFLAMMATION, AND DISEASES OF THE SKIN. By Drs. Symonds, Allison, Christison, &c. &c. In one volume octavo.

DISSERTATIONS ON DISEASES OF THE DIGESTIVE, URINARY AND UTERINE ORGANS. By Drs. Joy, Symonds, Thomson, Ferguson, &c. &c. In one volume octavo.

DISSERTATIONS ON HÆMORRHAGES, DROPSY, RHEUMATISM, GOUT, SCROFULA, &c. &c. By Drs. Burrows, Watson, Shapter, Joy, &c. &c. In one volume octavo.

The above five volumes are from the Library of Practical Medicine, edited by Dr. Tweedie, with notes by Dr. Gerhard. Each volume is complete within itself, and is for sale separately.

THE MEDICAL STUDENT; OR AIDS TO THE STUDY OF MEDICINE. Including a Glossary of the Terms of the Science, and of the Mode of Prescribing; Bibliographical Notices of Medical Works; the Regulations of the different Medical Colleges of the Union, &c. By Robley Dunglison, M.D., &c. &c. In one vol. 8vo.

LEA & BLANCHARD'S PUBLICATIONS.

ESSAYS ON ASTHMA, APHTHE, ASPHYXIA, APOPLEXY, ARSENIC, ATROPA, AIR, ABORTION, ANGINA PECTORIS, and other subjects, embraced in the Articles from A to Azote, prepared for the Cyclopaedia of Practical Medicine by Dr. Chapman and others. Each article is complete within itself, and embraces the practical experience of its author, and as they are only to be had in this collection, will be found of great value to the profession. The two volumes are now offered at a price so low, as to place them within the reach of every practitioner and student.

OUTLINES OF PHYSIOLOGY; with an Appendix on Phrenology. By P. M. Roget, M.D., Professor of Physiology in the Royal Institute of Great Britain, &c. First American edition revised, with numerous Notes. In one volume octavo.

GEOLOGY AND MINERALOGY, considered with reference to Natural Theology. By the Rev. William Buckland, D.D., Canon of Christ Church, and Reader in Geology and Mineralogy in the University of Oxford. With nearly one hundred copper-plates and large coloured maps. A new edition from the late London edition, with supplementary notes and additional plates.

THE BRIDGEWATER TREATISES, complete in seven volumes octavo, embracing:

I. The Adaptation of External Nature to the Moral and Intellectual Constitution of Man. By the Rev. Thomas Chalmers.

II. The Adaptation of External Nature to the Physical Condition of Man. By John Kidd, M.D.F.R.S.

III. Astronomy and General Physics, considered with reference to Natural Theology. By the Rev. William Whewell.

IV. The Hand; its Mechanism and vital Endowments as evincing Design. By Sir Charles Bell, K.H., F.R.S. With numerous wood-cuts.

V. Chemistry, Meteorology, and the Function of Digestion. By William Prout, M.D.F.R.S.

VI. The History, Habits, and Instincts of Animals. By the Rev. William Kirby, M.A.F.R.S. Illustrated by numerous engravings on copper.

VII. Animal and Vegetable Physiology, considered with reference to Natural Theology. By Peter Mark Roget, M.D. Illustrated with nearly five hundred wood-cuts.

VIII. Geology and Mineralogy, considered with reference to Natural Theology. By the Rev. William Buckland, D.D. With numerous engravings on copper, and a large coloured map.

The works of Buckland, Kirby and Roget, may be had separate.

A POPULAR TREATISE ON VEGETABLE PHYSIOLOGY, by W. P. Carpenter, Author of Principles of Human Physiology, &c., published under the auspices of the Society for the Promotion of Popular Instruction. With numerous wood-cuts, in one volume 12mo.

A POPULAR TREATISE ON AGRICULTURAL CHEMISTRY; intended for the use of the practical farmer, by Charles Squarry, Chemist. In one vol. 12mo.

ROGET'S ANIMAL AND VEGETABLE PHYSIOLOGY, with nearly five hundred wood-cuts, in two volumes, second American edition.

THE HISTORY, HABITS, AND INSTINCTS OF ANIMALS, by the Rev. William Kirby, M.A.F.R.S. Illustrated by numerous copperplate engravings.

The Ninth Bridgewater Treatise. A FRAGMENT, by Charles Babbage, Esq. From the second London edition. In one volume octavo.

A PRACTICE OF PHYSIC. Comprising most of the diseases not treated of in Diseases of Females and Diseases of Children, second edition. By W. P. Dewees, M.D., formerly Adjunct Professor in the University of Pennsylvania. In one vol. 8vo.

ELEMENTS OF HYGIENE; on the Influence of Atmosphere and Locality; Change of Air and Climate, Seasons, Food, Clothing, Bathing, Sleep, Corporeal and Intellectual Pursuits, &c., on Human Health, constituting Elements of Hygiene. By Robley Dunglison, M.D. In one volume 8vo.

ABERCROMBIE ON THE STOMACH. Pathological and Practical Researches on Diseases of the Stomach, the Intestinal Canal, the Liver, and other Viscera of the Abdomen. By John Abercrombie, M.D. Third American, from the second London edition, enlarged. In one volume 8vo.

DISEASES OF THE SKIN.

A NEW WORK.

A PRACTICAL AND THEORETICAL TREATISE ON THE DIAGNOSIS, PATHOLOGY, AND TREATMENT OF DISEASES OF THE SKIN, arranged according to a Natural System of Classification, and preceded by an Outline of the Anatomy and Physiology of the Skin. By Erasmus Wilson, M.D., author of a System of Human Anatomy, &c., in 1 vol. 8vo.

LEA & BLANCHARD HAVE JUST PUBLISHED  
A TREATISE  
ON  
THE DENTAL ART,  
FOUNDED  
ON ACTUAL EXPERIENCE.

ILLUSTRATED BY TWO HUNDRED AND FORTY-ONE FIGURES IN LITHOGRAPHY,  
AND FIFTY-FOUR WOOD CUTS.

BY F. MAURY,

DENTIST OF THE ROYAL POLYTECHNIC SCHOOL.

Translated from the French,

WITH NOTES AND ADDITIONS,

BY J. B. SAVIER,

DOCTOR OF DENTAL SURGERY.

One vol. 8vo.

This work is designed as a Text Book in the Baltimore College of Dental Surgery, and commends itself to the Profession from the great reputation of the author, and as embracing the latest information on the subject.

*From the American Journal of the Medical Sciences.*

"The above is the title of an interesting, highly valuable, and well written treatise on Dental Surgery, embracing a broader and more extended view of the subject than is usually given by writers on this branch of the curative art. The work is divided into three parts: the first is devoted to the 'Anatomy and Physiology of the Mouth and its Appendages,' as for example—the tongue, maxillary bones, muscles, nerves, arteries, veins and glands; the teeth, together with a description of the manner of their formation, development, structure, and eruption of both the temporary and permanent sets; also a description of the dental pulps and enamel, and the varieties of 'form,' 'number,' 'position,' 'structure,' and the 'consistency of the teeth.'"

"In the second part of the work, he treats of 'Dental Hygiene and Therapeutics,' embracing a description of the means for the preservation of the teeth and all the other parts of the mouth."

"The third part of the work is devoted to 'Mechanical Dentistry,' or a description of the various methods for the insertion of artificial teeth; every one of which is illustrated by one or more wood-cut engravings and lithographic plates."

"The original work, we believe, is held in high estimation in France by the medical, as well as the dental profession, and that it is one of merit is proved by the fact that it has passed through six or seven editions, and Dr. Savier, the translator, has done himself much credit by the very correct English version he has given of it."

"The information contained in the first and second parts of the work should be possessed not only by every dental, but by every medical practitioner, and more especially by those residing in the country and small villages where the services of scientific and skillful dentists can rarely be had."

L. & B. would particularly call the attention of the Profession to the series of works written by PROFESSOR DUNGLISON, and published by them. They are now extensively used as Text Books throughout the Union, and great care is taken by the author that each successive edition embodies the improvements and new information up to its publication. Persons who may order these works may rely upon having the last editions. They are THE PRACTICE OF MEDICINE; OR A TREATISE ON SPECIAL PATHOLOGY AND THERAPEUTICS, in 2 vols. 8vo.

GENERAL THERAPEUTICS AND MATERIA MEDICA, in 2 vols. 8vo.

NEW REMEDIES PHARMACEUTICALLY AND THERAPEUTICALLY CONSIDERED, a New Edition, the fourth, is just ready, 1 vol. 8vo.

A NEW DICTIONARY OF MEDICAL SCIENCE, the third edition, in 1 vol. 8vo.

HUMAN PHYSIOLOGY, with Illustrations, the fourth edition, in 2 vols. 8vo.

See a more detailed description of them on other pages.

A NEW WORK ON PRACTICAL SURGERY,

WITH OVER TWO HUNDRED AND FIFTY ILLUSTRATIONS,

AT A VERY LOW PRICE.

NOW READY:

A SYSTEM OF PRACTICAL SURGERY,

BY

PROFESSOR WILLIAM FERGUSSON,

OF KING'S COLLEGE, LONDON.

ILLUSTRATED BY OVER TWO HUNDRED AND FIFTY SPLENDID CUTS,

EXECUTED BY GILBERT, FROM DESIGNS BY BAGG,

WITH

NOTES AND ADDITIONS

By GEORGE W. NORRIS, M. D.,

ONE OF THE SURGEONS TO THE PENNSYLVANIA HOSPITAL.

In One Volume 8vo.

The object and nature of this volume are thus described by the author:—"The present work has not been produced to compete with any already before the Profession; the arrangement, the manner in which the subjects have been treated, and the illustrations, are all different from any of the kind in the English language. It is not intended to be placed in comparison with the elementary systems of Cooper, Burns, Liston, Symes, Lizars, and that excellent epitome by Mr. Druitt. It may with more propriety be likened to the *Operative Surgery* of Sir C. Bell, and that of Mr. Averill, both excellent in their day, or the more modern production of Mr. Hargrave, and the *Practical Surgery* of Mr. Liston. There are subjects treated of in this volume, however, which none of these gentlemen have noticed, and the author is sufficiently sanguine to entertain the idea that this work may in some degree assume that relative position in British Surgery which the classical volumes of Velpeau and Malgaigne occupy on the Continent."

The publishers commend this work to the attention of the Profession as one combining *cheapness* and *elegance*, with a clear, sound, and practical treatment of every subject in surgical science. No pains or expense has been spared to present it in a style equal, if not superior to the London edition, and to match the edition of "Wilson's Anatomy," lately published, and "Churchill's System of Midwifery" and "Carpenter's Human Physiology" now preparing.

¶ A more beautiful volume of the kind has never been presented in this country to the Medical Profession, and the price is so low as to bring it within the reach of all.

It has been introduced as a Text Book in several Colleges, and at the approaching fall will be added to the list of several others.

Some specimens of the illustrations and recommendations are annexed.

Fig. 103.



Fig. 113.



Fig. 107.



Fig. 106.



*Notices of Fergusson's Practical Surgery.*

"The object of this work, is to present 'a manual of the details of Practical Surgery, which shall, in some degree, meet the wishes and wants of the student, as well as of the surgeon already engaged in practice;' and the author has proved that he well knows what those wants and wishes are, and that he is fully competent to the task of supplying them. Indeed, we know of no volume in which the young surgeon will find so clearly and concisely described, as in the present, the various duties which he is called upon to execute, and the simplest and most efficient means of performing them; and we feel sure that its publication will greatly contribute to the advancement of the art of surgery, by rendering the student familiar with its elements and details.

"We must not close this notice without stating that, the editor has contributed some valuable additions, and that the getting up of the work—the printing, paper, and illustrations, which last are very numerous, are superior to any thing of the kind which has issued from the medical press of this country."—*Amer. Journal of the Medical Sciences.*

"If we were to say that this volume by Mr. Fergusson, is one excellently adapted to the student, and the yet inexperienced practitioner of surgery, we should restrict unduly its range. It is of the kind which every medical man ought to have by him for ready reference, as a guide to the prompt treatment of many accidents and injuries, which whilst he hesitates, may be followed by incurable defects, and deformities of structure, if not by death itself."

"In drawing to a close our notice of Mr. Fergusson's Practical Surgery, we cannot refrain from again adverting to the numerous and beautiful illustrations by wood-cuts, which contribute so admirably to elucidate the descriptions in the text. Dr. Norris has, as usual, acquitted himself judiciously in his office of annotator. His additions are strictly practical, and to the point."—*Bulletin of Medical Science.*

"We know not how generally Mr. Fergusson's system of Practical Surgery may be known to practitioners, but those who are strangers to it, ought not to be so any longer, since it is obvious, that it is destined to work its way into public favour. George W. Norris, M. D., one of the surgeons of the Pennsylvania Hospital, who has added notes and additional illustrations, says, in a short preface, that it 'is so well adapted to the wants of the American student and practitioner, that no apology is necessary for introducing it to their notice. The work is at once clear and concise in style, strictly practical in its contents, and the wood-cuts, admirably executed by Mr. Gilbert, are remarkable for their spirit and accuracy.' Dr. Norris is good authority; he is not a man to bestow commendation where it is not deserved, nor would he hazard a growing reputation by recommending to the notice of surgeons anything that would not bear the most critical examination."

"The two hundred and fifty-four engravings are as correct and beautiful as can be found anywhere. We bespeak for such a book, the countenance and patronage of a liberal-minded faculty."—*Boston Med. & Surg. Journal.*

"We can only add our testimony that, in following this course, the author has fully succeeded in making an original and strictly practical work, and one which we are confident will be considered a standard book for the surgeon. In its style it is concise, easy, and agreeable; the matter it contains is well arranged, and what is more important, admirably digested; the directions for the use of instruments, for the performance of operations, for the diagnosis of diseased conditions, and for the proper treatment for their relief, are all clearly laid down and illustrated by excellent wood cuts, which speak more intelligibly *oculis fidelibus*, than would the most laboured explanations."—*N. York American.*

"This new work, just issued from the house of Messrs. Lea & Blanchard, is remarkable in many respects for the value of the information it contains, the number of admirable illustrations, and, withal, for the style in which it has been brought out, taking a place, in this respect, alongside the 'System of Human Anatomy,' recently published by the same enterprising house. The object of the author throughout the whole of the work, has been 'to produce a manual of the details of practical surgery, which shall, in some degree, meet the wishes of the student, as well as of the surgeon already engaged in practice.' And in this, every one must admit, he has fully succeeded. The American editor, (one of our best informed surgeons,) has added matter having reference, principally, to the treatment of some of the more common surgical affections, or to operations, done by his own countrymen, which have been deemed worthy of notice."

"A friend, who is well acquainted with all that has been done in this department of science, is prepared to say, that no surgical work has emanated from the press of this, or any other country, which is, in all respects, more creditable to the author and editor; and it appears to him, that every library ought to possess it. It will be found a faithful guide, with no obscurity to lead to hesitation, and with *illustrations* such as to guard completely against error."—*U. S. Gazette.*

It is with unfeigned satisfaction that we call the attention of the profession in this country to this excellent work. It richly deserves the reputation conceded to it, of being the best practical surgery extant, at least in the English language.

The matter added by the American editor, is both interesting and useful, and bears the impress of his cautious and discriminating mind.—*Medical Examiner.*



ELEMENTS OF MATERIA MEDICA AND THERAPEUTICS,  
WITH NEAR 300 ILLUSTRATIONS.

ELEMENTS  
OF  
MATERIA MEDICA AND THERAPEUTICS;

COMPREHENDING  
THE NATURAL HISTORY, PREPARATION, PROPERTIES,  
COMPOSITION, EFFECTS, AND USES OF MEDICINES,

By JONATHAN PEREIRA, M.D., F.R.S.,  
ASSISTANT PHYSICIAN TO THE LONDON HOSPITAL, ETC.

With numerous Illustrations.

FROM THE SECOND LONDON EDITION.

ENLARGED AND IMPROVED, WITH NOTES AND ADDITIONS.

By JOSEPH CARSON, M.D.

PROFESSOR OF MATERIA MEDICA AND PHARMACY IN THE PHILADELPHIA COLLEGE OF  
PHARMACY, ETC.

Part I., contains the General Action and Classification of Medicines, and the Mineral Materia Medica. Part II., the Vegetable and Animal Kingdoms, and including diagrams explanatory of the Processes of the Pharmacopœias, a tabular view of the History of the Materia Medica, from the earliest times to the present day, and a very copious index. From the Second London Edition, which has been thoroughly revised, with the Introduction of the Processes of the New Edinburgh Pharmacopœia, and containing additional articles on Mental Remedies, Light, Heat, Cold, Electricity, Magnetism, Exercise, Dietetics, and Climate, and many additional Wood Cuts, illustrative of Pharmaceutical Operations, Crystallography, Shape and Organization of the Fœculas of Commerce, and the Natural History of the Materia Medica.

The object of the author has been to supply the Medical Student with a Class Book on Materia Medica, containing a faithful outline of this Department of Medicine, which should embrace a concise account of the most important modern discoveries in Natural History, Chemistry, Physiology, and Therapeutics, in so far as they pertain to Pharmacology, and treat the subjects in the order of their natural historical relations.

PREFACE TO THE AMERICAN EDITION.

The very great merit of Pereira's Elements of Materia Medica and Therapeutics, having attracted the attention of the Profession in the United States, it is believed that an important service is performed in rendering it accessible, by the publication of an American edition. It is by far the most comprehensive treatise upon the subject in the English language. Replete with erudition and at the same time most satisfactory with respect to references; it is admirably suited to the wants of the advanced student and the practitioner; while from the distinctness of the facts, their methodical arrangement, and the clear philosophical explanations connected with them, it meets the wants of the student who is in search of the first lessons in the science. It may, therefore, with equal benefit be employed as a work of reference, or as an elementary text book, in which two-fold character it occupies an unusual position.

More completely to adapt it to the demands of this country, such additions have been made as are deemed to be essential. Thus, the portion devoted to pharmaceutical information, is in the original work too strictly local, as it is confined almost exclusively to the peculiarities of the three British Colleges; to obviate this, the nomenclature of the last edition of the United States Pharmacopœia has been introduced, by inserting the name of each article adopted by that standard, in connexion with those assumed by the authorities uniformly cited by the author, or by expressing a correspondence of name with one or more of them by the symbols (U. S.) in union with similar symbols used by him to indicate the authority. The formulæ of the United States Pharmacopœia have also been set forth with the formulæ of the standards previously mentioned, and where a formula has been adopted, or a medicinal preparation assumed by our own work, entirely differing from those found in the text, it has been presented, with all the details necessary for its employment.

Succinct histories of the most important indigenous medicines of the United States, of which no account had been given, have been introduced in their appropriate places, as *Cassia Marylandica*, *Chenopodium*, *Cimicifuga*, *Cornus Florida*, *Eupatorium*, *Gillenia*, *Juglans*, *Pix Canadensis*, *Podophyllum*, *Prunus-Virginiana*, *Sanguinaria* and *Veratrum viride*; others of minor importance have also been noticed, and a sufficient exposition of their properties made, for their employment under circumstances that may render them expedient.

It forms Two Volumes, of about 1600 large and well-printed pages, with near 300 illustrations on wood. Great expense has been incurred in getting it up, and the editor has been most careful in its revision, so that it may be relied upon as a standard and permanent work. It will be used as a Text Book in various sections of the country. Numerous testimonials from Journals, Professors, and others, could be given, but the Publishers prefer exhibiting this explanation of its contents, and submitting an extract from the work.

*Extract from the Article—Lobelia.*

**CHEMICAL CHARACTERISTICS.**—A strong decoction of lobelia dropped into rectified spirit deposits a precipitate (*gum*). Acetate, and especially diacetate of lead, form yellow precipitates with the decoction. Proto-nitrate of mercury also forms a copious precipitate. (For other chemical characteristics, see above.)

**PHYSIOLOGICAL EFFECTS.**—An accurate account of the effects of this plant on man and animals is yet wanting. But from the observations hitherto made its operation appears to be very similar to that of tobacco (see p. 317); and from this circumstance, indeed, it has been called the *Indian Tobacco*. I have before remarked, that both in its taste and in the sensation of acridity which it excites in the throat, it resembles common tobacco. This analogy between nicotiana and lobelia, originally noticed by the American practitioners, is confirmed by Dr. Elliotson. (*Lancet*, April 15, 1837, p. 144.)

*a. On Animals generally.*—Horses and cattle have been supposed to be killed by eating it accidentally. (Thacher, *American New Dispensatory*, p. 2.) An extraordinary flow of saliva is said to be produced by it on cattle. (*Lancet*, May 13, 1837, p. 299.)

[Mr. Procter administered a grain of lobelina in solution to a cat. In less than two minutes it produced violent emesis, and much prostration, from which the animal fully recovered in three hours. Again, one grain of the substance in an ounce of water was administered directly into the stomach of the animal by an elastic tube. Immediate and total prostration was the consequence, which in half an hour rendered the animal almost motionless; the pupils of the eyes were much dilated. The animal gradually recovered its strength, but the effects of the prostration were evident for fifteen hours afterwards. No emetic or cathartic effects resulted. (*Am. Journ. of Pharm.* vol. xiii. p. 10.)—J. C.]

*b. On Man.*—*aa.* In small doses it operates as a *diaphoretic* and *expectorant*. Mr. Andrews, (*Lond. Med. Gaz.* vol. iii. p. 260.) who speaks from its effects on himself, says, it has “the peculiar soothing quality of exciting expectoration without the pain of coughing.”

*bb.* In full medicinal doses (as ℞j. of the powder) it acts as a powerful, nauseating *emetic*. Hence it has been called the *emetic weed*. It causes severe and speedy vomiting, attended with continued and distressing nausea, sometimes purging, copious sweating, and great general relaxation. These symptoms are usually preceded by giddiness, headache, and general tremors. The Rev. Dr. M. Cutler, (Thacher, *op. cit.*) in his account of the effects on himself, says, that taken during a severe paroxysm of asthma, it caused sickness and vomiting, and a kind of prickly sensation through the whole system, even to the extremities of the fingers and toes. The urinary passage was perceptibly affected, by producing a smarting sensation in passing urine, which was probably provoked by stimulus on the bladder. It sometimes, as in the Rev. Dr. Cutler's case, gives almost instantaneous relief in an attack of spasmodic asthma. Intermittent pulse was caused by it in a case mentioned by Dr. Elliotson. Administered by the rectum, it produces the same distressing sickness of stomach, profuse perspiration, and universal relaxation, which result from a similar use of tobacco.

*cc.* In excessive doses, or in full doses too frequently repeated, its effects are those of a powerful *acro-narcotic poison*. “The melancholy consequences resulting from the use of Lobelia inflata,” says Dr. Thacher, (*op. cit.*) “as lately administered by the adventurous hands of a noted empiric, have justly excited considerable interest, and furnished alarming examples of its deleterious properties and fatal effects. The dose in which he is said usually to prescribe it, and frequently with impunity, is a common teaspoonful of the powdered seeds or leaves, and often repeated. If the medicine does not puke or evacuate powerfully, it frequently destroys the pa-

tient, and sometimes in five or six hours." Its effects, according to Dr. Wood, (*United States Dispensatory*), are, "extreme prostration, great anxiety and distress, and ultimately death, preceded by convulsions." He also tells us that fatal results (in America) have been experienced from its empirical use. These are the more apt to occur when the poison, as is sometimes the case, is not rejected by vomiting.

Uses.—Lobelia is probably applicable to all the purposes for which tobacco has been used (see p. 319). From my own observation of its effects, its principal value is as an antispasmodic.

1. *In asthma* (especially the *spasmodic* kind) and other disorders of the organs of respiration.—Given in full doses, so as to excite nausea and vomiting, at the commencement of, or shortly before, an attack of *spasmodic asthma*, it sometimes succeeds in cutting short the paroxysm, or in greatly mitigating its violence; at other times, however, it completely fails. Occasionally it has proved serviceable in a few attacks, and, by repetition, has lost its influence over the disease.

To obtain the beneficial influence in asthma, it is not necessary, however, to give it in doses sufficient to excite vomiting. Dr. Elliotson (*Lancet*, April 15, 1837, p. 144,) recommends the use of small doses at the commencement, and says that these should be gradually increased, if neither headache nor vomiting occur; but immediately when these symptoms come on, the use of the remedy is to be omitted. Given in this way, I can testify to its good effects in spasmodic asthma. It has also been used in *croup*, *hooping-cough*, and *catarrhal asthma*, but with no very encouraging effects.

2. *In strangulated hernia*, Dr. Eberle, (*Treat. of the Mat. Med.* vol. i. p. 48, 2d ed.) employed it effectually, instead of tobacco, in the form of enema.

3. *As an emetic*, it has been employed by Dr. Eberle (*op. cit.*) in croup; but its operation is too distressing and dangerous for ordinary use.

ADMINISTRATION.—It may be given in *powder*, *infusion*, or *tincture* (alcoholic or ethereal.) Dr. Reece employed an *oxymel*. The dose of the *powder* as an emetic, is from grs. x. to ℥j.; as an expectorant, from gr. j. to grs. v. It deserves especial notice that the effects of lobelia are very unequal on different persons, and that some are exceedingly susceptible of its influence. (Elliotson, *Lancet*, June 1832; and April 15, 1837.)

1. TINCTURA LOBELIÆ, E. (U. S.); *Tincture of Lobelia*.—Lobelia, dried, and in moderately fine powder, ℥v.; Proof Spirit, Oij. This tincture is best prepared by the process of percolation, as directed for the tincture of capsicum; but it may also be made in the usual way by digestion.—[The U. S. P. directs Lobelia, four ounces; Diluted Alcohol, two pints. Macerate for fourteen days and filter, or proceed by displacement.]—Dose, as an emetic and antispasmodic, from ℥j. to ℥ij. repeated every two or three hours until vomiting occur; as an expectorant ℞x. to ℥j. For children of one or two years old, the dose is ℞x. ℞xx.

2. TINCTURA LOBELIÆ ETHEREA, E.; *Ethereal Tincture of Lobelia*.—(Lobelia, dried, and in moderately fine powder, ℥v.; Spirit of Sulphuric Ether, Oij. This tincture is best prepared by percolation, as directed for tincture of capsicum; but it may be also obtained by digestion in a well-closed vessel for seven days.) This may be used in the same doses as the alcoholic tincture.

With some persons the ether is apt to disagree, and for such the alcoholic tincture is preferred. *Whillaw's ethereal tincture*, used by Dr. Elliotson, consisted of Lobelia, lb. j.; rectified spirit, Oiv.; spirit of nitric ether, Oiv.; spirit of sulphuric ether, ℥iv. Macerate for fourteen days, in a dark place. (*Lancet*, June 3, 1837.)

[As has been stated, page 385, heat injures the activity of lobelia, when its active principle is in a free state, and though combined with a weak acid in the plant, boiling is found to impair the activity of the decoction, hence in making preparations which require heat, some acid, as the acetic, should be associated with it. A VINEGAR OF LOBELIA may be prepared by treating four ounces of lobelia by displacement, with two pints of diluted acetic acid. With vinegar of lobelia, a *syrup* may be made in the same manner as syrup of squills.

By treating the powdered seeds with eight parts of diluted alcohol, containing 1 per cent. of acetic acid, a preparation is obtained possessing the activity of lobelia in a concentrated form (Procter).—J. C.]

## MISCELLANEOUS BOOKS

PUBLISHED BY  
LEA & BLANCHARD.

- Brougham, Henry Lord, His Speeches with Historical Introductions, in 2 vols. 8vo.  
Do do do. Historical Sketches of the Times of George IV., in 2 vols. royal 12mo.  
Do do do. Critical and Miscellaneous Writings, in 2 vols. royal 12mo.  
Butler's Atlas of Ancient Geography, with a complete Index, 1 vol. 8vo.  
Do. Geographia Classica, fourth edition, 1 vol. 8vo. to accompany the Atlas.  
Boz's Works complete, fine edition, with numerous illustrations, 6 vols. royal 8vo. Consisting of  
Sketches of Every day Life and Every-day People.  
Posthumous Papers of the Pickwick Club.  
Oliver Twist; or, The Parish Boy's Progress.  
Life and Adventures of Nicholas Nickleby.  
Old Curiosity Shop.  
Barnaby Rudge.  
Also, a Cheap Edition, without the plates.  
Bulwer's Critical and Miscellaneous Writings, in 2 vols. royal 12mo.  
Brewster's Treatise on Optics, a new and improved edition, 1 vol. 12mo.  
Bolmar's French Series, Consisting of Perrin's Fables, 1 vol. 12mo. Colloquial Phrases, 1 vol. 18mo.  
French Verbs, 1 vol. 12mo. Telemaque, 1 vol. 12mo. Key to do. 1 vol. 12mo.  
Cooper's Naval History of the United States, second edition, in 2 vols. 8vo.  
Do. Novels and Tales complete, and to match, 44 vols. 12mo. at 25 cts. per volume.  
Do. Leather Stocking Tales, 5 vols. 12mo.  
Do. Sea Tales, 5 vols. 12mo.  
Davidson's, Margaret M. Biography and Poetical Remains, edited by Irving, 1 vol. 12mo. ex. cl.  
Davidson's, Lucretia M. Biography and Poetical Remains, edited by Miss Sedgwick. A new and cheap edition, 1 vol. 12mo. price 50 cts.  
Ellis, Mrs. Family Secrets; or, Hints to those who would make Home Happy, in 2 vols. 12mo. price 50 cts.  
Encyclopædia of Geography. A new edition, brought up to 1842, publishing in 24 weekly Numbers, royal 8vo.  
Encyclopædia Americana, a great work, in 13 vols. 8vo.  
Frederic the Great, His Court and Times, including the Seven Years War, by Thomas Campbell, in 4 vols. 12mo.  
Fielding's Select Works, with his Life, by A. Murphy, royal 8vo.  
Geisler's Text Book of Ecclesiastical History, 3 vols. 8vo.  
Guy Fawkes; An Historical Romance of the Times of James I., by W. H. Ainsworth, 1 vol. royal 8vo.  
Heber's Poetical Works. Complete in 1 vol. 12mo.  
Herschell's Astronomy. A new and improved edition, 1 vol. 12mo.  
History of Congress during the Administration of General Washington, in 1 vol. 8vo. a cheap volume.  
Hemans' Poetical Works, Complete, in 7 vols. 12mo. with a Life by her Sister, and an Essay on her Genius, by Mrs. Sigourney.  
Do. Memoirs, by her Sister, Mrs. Hughes, in 1 vol. 12mo.  
Horse, (The) by Youatt, with additions by Skinner, 1 vol. 8vo. with many illustrations.  
Irving's Select Works, in 2 vols. royal 8vo. with a portrait.  
Do. Astoria, in 2 vols. 8vo.  
Do. Rocky Mountains. A new and cheap edition.  
Do. Life and Voyages of Christopher Columbus, in 2 vols. 8vo.  
Do. Crayon Miscellany—Containing Abbotsford, Newstead Abbey, Conquest of Spain, &c. 3 vols. 12mo.  
Jess', Court of England under the House of Nassau and Hanover, 3 vols. royal 12mo.  
Jefferson's Life, by Professor Tucker, in 2 vols. 8vo.  
Kebble's Christian Year, third edition, in one neat 12mo. volume.  
Kebble's Child's Christian Year, a small volume.  
Lockhart's Life of Sir Walter Scott, in 7 vols. 12mo. with a portrait.  
Language of Flowers, with beautiful coloured plates, a new edition, extra gilt edges.  
Madame de Sevigné and her most distinguished Contemporaries, in 2 vols. royal 12mo.  
Moore's, Thomas, History of Ireland, in 1 vol. 8vo.  
Millwright's and Miller's Guide, with plates, by Oliver Evans, tenth edition, with improvements, 1 vol. 8vo.  
Madden's Lives and Times of the United Irishmen, 2 vols. 12mo.  
Mrs. Marcet's Stories for Young Children, small 4to.  
Porcelain Tower, or Nine Stories of China, by T. P. T., 1 vol. 12mo. with numerous illustrations.  
Queen of Flowers, or Memoirs of the Rose, 1 vol. coloured plates.  
Romantic Biography of the Age of Elizabeth, by the Benedictine Brethren of Glendalough, 2 vols. 12mo.  
Ranke's Ecclesiastical and Political History of the Popes of Rome, during the 16th and 17th centuries, in 2 vols. royal 8vo.  
Strickland, Miss, Lives of the Queens of England, 1st series, 3 vols. 12mo. extra cloth.  
Do do do do do. 2d do. 2 vols. do. do.  
Stanley Thorn, by Cockton, 1 vol. royal 8vo. with numerous illustrations.  
Shelley, Mrs. Eminent Literary and Scientific Men of Italy, in 2 vols. 12mo.  
Do do. Memoirs of the most eminent French Writers, 2 vols. 12mo.  
Sentiments of Flowers, or Language of Flora, with coloured plates.  
Scott's Poetical Works. Complete in 6 vols. royal 12mo. extra cloth.  
Smollett's Select Works, with a Memoir by Sir Walter Scott, royal 8vo.  
Tales and Souvenirs of a Residence in Europe, 1 vol. 12mo. extra cloth.  
Wheaton's Inquiry into the Validity of the Right of Search, 1 vol. 8vo.  
Washington Potts, Mrs and Mr Smith, by Miss Leslie, price 25 cts.  
Walsh's Sketches of Conspicuous Living Characters of France, 1 vol. 12mo.  
Walpole's Unrivalled Letters. The only complete edition. Containing nearly 300 Letters, with a portrait, in 4 vols. 8vo. extra cloth.







