



# MERCK'S 1899 MANUAL

OF THE

## MATERIA MEDICA

TOGETHER WITH A SUMMARY OF THERAPEUTIC INDICATIONS AND A  
CLASSIFICATION OF MEDICAMENTS

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A READY-REFERENCE POCKET BOOK

FOR THE

## PRACTICING PHYSICIAN

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CONTAINING

NAMES AND CHIEF SYNONYMS, PHYSICAL FORM AND APPEARANCE, SOLUBILITIES, PERCENTAGE STRENGTHS AND PHYSIOLOGICAL EFFECTS, THERAPEUTIC USES, MODES OF ADMINISTRATION AND APPLICATION, REGULAR AND MAXIMUM DOSAGE, INCOMPATIBLES, ANTIDOTES, PRECAUTIONARY REQUIREMENTS, ETC., ETC., — OF THE

CHEMICALS AND DRUGS USUAL IN MODERN MEDICAL  
PRACTICE

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*Compiled from the Most Recent Authoritative Sources and Published by*

MERCK & CO., NEW YORK

This facsimile of the first edition of *The Merck Manual*, published as *Merck's 1899 Manual*, has been produced in celebration of the 100th anniversary of this not-for-profit publication. *The Merck Manual* has been continuously published longer than any other general textbook of medicine in the English language.

We hope that you enjoy revisiting medical history through this facsimile edition. It illustrates the enormous advances in medical knowledge and practice that have taken place over the past 100 years.

# ANALYSES FOR... PHYSICIANS

By the  
Analytic Laboratories  
of Merck & Co.  
New York

*Examinations of Water, Milk, Blood, Urine, Sputum, Pus, Food Products, Beverages, Drugs, Minerals, Coloring Matters, etc., for diagnostic, prophylactic, or other scientific purposes.*

All analyses at these Laboratories are so conducted as to assure the best service attainable on the basis of the latest scientific developments. The laboratories are amply supplied with a perfect quality of reagent materials, and with the most efficient constructions of modern apparatus and instruments. The probable cost for some of the most frequently needed researches is approximately indicated below :

Sputum, for tuberculosis bacilli	\$3.00
Urine, for tuberculosis bacilli	3.00
Milk, for tuberculosis bacilli	3.00
Urine, qualitative, for one constituent	1.50
Urine, qualitative, for each additional constituent	1.00
Urine, quantitative, for each constituent	3.00
Urine, sediment, microscopical	1.50
Blood, for ratio of white to red corpuscles	2.00
Blood, for Widal typhoid reaction	2.00
Water, for general fitness to drink	10.00
Water, for typhoid germs	25.00
Water, quantitative determination of any one constituent	10.00
Pus, for gonococci	3.00

The cost for other analyses, more variable in scope—can only be given upon closer knowledge of the requirements of individual cases.

All pharmacists in every part of the United States will receive and transmit orders for the **MERCK ANALYTIC LABORATORIES**.

*Physicians are earnestly requested to communicate to Merck & Co., University Place, New York, any suggestions that may tend to improve this book for its Second Edition, which will soon be in course of preparation.*

*Whatever the Publishers can do to make Merck's Manual of still greater service to the Medical Profession will be gladly undertaken and promptly performed for all subsequent editions.*

*Therefore, any Physician who will propose improvements in the subject-matter (especially as regards the Newer Materia Medica), or in the arrangement, style, and form of this work, for future editions, will thus be rendering valuable service, not only to its Publishers, but to the entire Profession as well!*

**M**ERCK'S MANUAL is designed to meet a need which every general practitioner has often experienced. Memory is treacherous. It is particularly so with those who have much to do and more to think of. When the best remedy is wanted, to meet indications in cases that are a little out of the usual run, it is difficult, and sometimes impossible, to recall the whole array of available remedies so as to pick out the best. Strange to say, too, it is the most thoroughly informed man that is likely to suffer to the greatest extent in this way; because of the very fact that his mind is overburdened. But a mere reminder is all he needs, to make him at once master of the situation and enable him to prescribe exactly what his judgment tells him is needed for the occasion.

In MERCK'S MANUAL the physician will find a complete Ready-Reference Book covering the entire eligible Materia Medica. A glance over it just before or just after seeing a patient will refresh his memory in a way that will facilitate his coming to a decision. In this book, small as it is, he will find the essential data found in the ponderous Dispensatories, together with the facts of newest record, which can appear only in future editions of those works.

Part I affords at a glance a descriptive survey, in one alphabetic series, of the entire Materia Medica to-day in general use by the American profession. Part II contains a summary of Therapeutic Indications for the employment of remedies, arranged according to the Pathologic Conditions to be combated. Part III presents a Classification of Medicaments in accordance with their Physiologic Actions.

The publishers may be allowed to state that they have labored long and earnestly, so to shape this little volume that it shall prove a firm and faithful help to the practitioner in his daily round of duty. They now send it forth in the confident hope that, the more it is put to the test of actual use, the more it will grow in the esteem of its possessor.

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pages 6 and 7.*

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## ABBREVIATIONS.

alm. = almost  
amorph. = amorphous  
arom. = aromatic  
comp. = compound  
cryst. = crystals or crystalline  
D. = dose  
decoct = decoction  
dil. = dilute or diluted  
emuls. = emulsion  
ext. = extract  
extern. = externally  
F. E. or fl. ext. = fluid extract

fl. dr. = fluid dram  
grn. = grain or grains  
infus. = infusion  
inject. = injection  
insol. = insoluble  
intern. = internally  
lin. = liniment  
liq. = liquid or liquor  
Max. D. = maximum dose  
min. or ℥ = minim or minims  
odorl. = odorless  
oint. = ointment

oz. = ounce or ounces  
powd. = powder  
q. v. = which see (*quod vide*)  
sl. = slightly  
sol. = soluble or solubility  
solut. = solution  
spt. = spirit  
syr. = syrup  
tastel. = tasteless  
tr. = tincture  
wh. = white  
3 t., 4 t. = 3 times, 4 times

## When in immediate need

of Drugs or Chemicals not at hand, any pharmacist is in a position to use our EMERGENCY DEPARTMENT, which is in operation every day in the year, Sundays and Holidays included, until 9 p. m. — Hurry orders reaching us after regular business hours will receive prompt attention, — *provided* :

1—*that they come by WIRE* ;

2—*that they call for MERCK'S chemicals or drugs* (no other brands being in stock with us) ;

3—*and that the quantity and nature of the goods admit of their being sent through the MAILS.*

As it is impossible for us to ascertain in each instance the identity of a Physician who might wish to make use of this department, we must insist (for the proper protection of the Profession against the unauthorized purchase of poisons, etc.; as well as in due recognition, by us, of the established usage in the traffic with medicines and drugs) that every such order be transmitted through an established Pharmacist ; and pharmacists, when telegraphing orders to us, should always mention their jobber to whom the article is to be charged.

We trust that this Department will prove of value in cases of emergency and immediate need.

MERCK & CO., New York.



## SOME OF THE Awards to the Merck Products

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1830:	<b>Gold Medal :</b> "For the Relief of Mankind."	{ Pharmaceutical Socie- ty of PARIS (France)
1853:	<b>Medal and Special Approbation :</b> "For Specimens of Alkaloids."	{ Exh'b'n of the Indus- try of all Nations, N.Y.
1861:	<b>Gold Medal and Diploma.</b>	{ Industrial Exposition, DARMSTADT.
1862:	<b>Medal : "Honoris Causa."</b>	{ World's Fair, LON- DON (England).
1864:	<b>Award : "Beyond Competition."</b> "Numerous and varied collection of Alkaloids and very rare products ; Physiological Preparations of high interest and very difficult to obtain in any appreciable quantity."	{ Pharmaceutical Con- gress of France, STRASSBOURG.
1867:	<b>Gold Medal :</b> "Chemical Preparations ; Quinine Salts ; Alkaloids."	{ Universal Exposition, PARIS (France).
1873:	<b>Medal of Progress and Diploma.</b> (The Highest Award.)	{ World's Exposition, VIENNA (Austria).
1876:	<b>The Great Prize Medal and Diploma.</b>	{ Industrial Exposition, DARMSTADT.
1879:	<b>Highest Award.</b>	{ International Exh'b'n, SYDNEY (Australia).
1880:	<b>Gold Medal and Diploma :</b> "A Fine and Vast Collection of the Rarest Alkaloids and their Salts."	{ Medical Association of Italy, GENOA.
1880:	<b>Gold Medal :</b> "Vitam Excolere per Artes."	{ International Exh'b'n, MELBOURNE (Australia).
1883:	<b>The Diploma of Honor.</b>	{ International Expo'n, AMSTERDAM (Holland).
1893:	<b>Highest Award ; Medal and Diploma :</b> "For a large variety of preparations of great purity ;" and "For great service rendered to the medical and pharmaceutical professions."	{ Columbian Exposition, CHICAGO. ["On Medicinal Chemicals."]
1893:	<b>Highest Award ; Medal and Diploma :</b> "For excellence of chemicals for analytical and scientific uses."	{ Columbian Exposition, CHICAGO. ["On Guaran- teed Reagents."]

Etc., Etc.

Price: \$1.00 Yearly

# MERCK'S ARCHIVES

OF

## The Materia Medica and Its Uses

A JOURNAL FOR THE PRACTICING PHYSICIAN

PUBLISHED MONTHLY BY MERCK & CO., NEW YORK

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### General Scope of Contents.

[N. B.—This "General Scope" is not to be understood to state certain standing divisions or chapter heads for the contents of the journal; but rather to denote the character of the various classes of matter to be treated of.]

**"ORIGINAL RESEARCH"**—comprising Papers, Lectures, or Reports by reputable investigators on the results of experiments and collective trials, regarding the physiological actions and curative properties of Drugs, and the manner of their therapeutic Employment.

**"ADVANCE IN MATERIA MEDICA"**—being Condensed Reports, freshly compiled each month, on the latest advances in Medicinal Agents and in Methods of applying them—embracing the discoveries of New Remedies, and of New Uses of the older ones.

**"THE JOURNALS"**—a collection of noteworthy expressions of Medical Opinion on recent questions relating to Drugs and their Uses, as culled from the latest American and foreign journals.

**"THE PRESCRIPTION"**—a chapter of special interest and direct usefulness to the general practitioner—containing in each number a series of selected Formulas; and, occasionally, criticisms on Prescription Errors; information and suggestions on Incompatibilities and other Prescription Difficulties; what should be prescribed in Solid and what in Liquid form; the Regulation of General Dosage, in such various forms as: gargles, eye-washes, urethral injections, vaginal injections, medicated baths; as well as of Dosage by Age in enemata, suppositories, hypodermics, etc.

Besides the above, the journal will contain such minor but serviceable matters as: "QUERIES AND ANSWERS;" "NOTES AND HINTS;" "PROFESSIONAL NEWS," etc.

*"MERCK'S ARCHIVES" does not profess to "do everything;" but it aims to do One Thing thoroughly, —to offer the practitioner new and valuable information on the Materia Medica and its recent developments.*

*"MERCK'S ARCHIVES" will lay before the practitioner the results of the Thought and Work of others on Drugs and their Uses, in such form as to be most directly serviceable to him.*

*The Condensed Reports on "Advance in Materia Medica" will give enough of the theoretical reasoning and clinical experience of the original authors, to make clear the value of their conclusions.*

*The Papers, etc., of "Original Research" will be only such as combine relative brevity with practical usefulness. At the same time they will be of such high character as to invite the attention of him also who reads from purely scientific interest.*

*The Selections from the world's medical Periodic Literature will be taken solely with a view to their suggestive value to the physician regarding remedial agents and their applications.*

*The significance of the other matters in "MERCK'S ARCHIVES" is evident from their description in the preceding synopsis of contents; while their presentation will likewise be in full accord with the principles indicated above:—Practical Usefulness; Scientific Exactness; Ethical Dignity; Palatable and Readily Digestible Form.*

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**Part First.—THE MATERIA MEDICA, as in actual use to-day by American Physicians. (Alphabetically arranged.)**

THIS PART EMBRACES all those Simple Medicinal Substances (that is, drugs and chemicals) which are in current and well-established use in the medical practice of this country; or which, if too recently introduced to be as yet in general use, are vouched for by eminent authorities in medical science;—also, the medicinally employed Pharmaceutic Preparations recognized by the United States Pharmacopœia.

(Added thereto, for the convenience of those practitioners who prescribe them, are Medicamentous Mixtures advertised only to the Profession, but whose composition or mode of manufacture has not been made known with sufficient completeness or exactness to satisfy all members of the Profession. In the selection the publishers have been guided solely by the recognition accorded the various preparations by the Profession, according to the best information obtained.)

There has also been included, under the title of “Foods and Dietetic Preparations,” a list of such preparations as are frequently prescribed for infants’ diet, or for the sick or convalescent.

OMITTED from the Materia Medica chapter are: Medicaments that have become obsolete, or that are too rarely used to be of general interest; and such new remedies as are not yet safely accredited on reliable authority; also those galenic preparations (syrups, extracts, pills, essences, elixirs, wines, emulsions, etc.) which are not standardized according to the U. S. Pharmacopœia; likewise all articles that are put up and advertised for self-medication by the lay public.

SEPARATE TITLES in the alphabetic series are accorded, as a rule, to the botanical drugs and other pharmaceutical

mother-substances, to proximate principles (alkaloids, glucosides, organic acids, etc. ), and to chemical compounds (salts, "synthetics," etc. ); while the official galenic preparations, solutions and dilutions, derived from them, are mostly mentioned under the titles of their respective mother-substances. (Thus, for instance, "Dover's Powder" will be found under "Opium," while "Morphine" is described under its own title. )

*(Smaller type has been employed—in order to economize space—for botanic drugs, gums, and some others of the older drugs and preparations which are so long and well known that but little reference will need be made to them.)*

*(Those substances of the Materia Medica which can be had of the MERCK brand are—for the convenience of prescribers—so designated).*

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83 to 184.

**Part Second.—THERAPEUTIC INDICATIONS for the use of the Materia Medica and other agents.**  
(Arranged alphabetically under the titles of the various Pathologic Conditions.)

THIS PART SUMMARIZES in brief form, the principal means of treatment for each form of disease, as reported to be in good use with practitioners at the present time. The statements hereon are drawn from the standard works of the leading modern writers on Therapeutics, and supplemented—in the case of definite chemicals of more recent introduction—by the reports of reputable clinical investigators.

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**Part Third.—CLASSIFICATION OF MEDICAMENTS according to their Physiologic Actions.**  
(Arranged alphabetically under the titles of the Actions.)

THIS PART RECAPITULATES, for ready survey, such statements as are already given in "PART I," as to the modes of action of the various medicaments.



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