# A MANUAL OF HYPODERMATIC MEDICATION:

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OF

## Hypodermatic Medication:

THE

TREATMENT OF DISEASES BY THE HYPODERMATIC OR SUBCUTANEOUS METHOD.

BY

#### ROBERTS BARTHOLOW, A.M., M.D., LL.D.,

Emeritus Professor of Materia Medica, General Therapeutics, and Hygiene in the Jefferson Medical College of Philadelphia; Honorary Fellow of the Royal Medical Society of Edinburgh; Honorary Member of the Société Médico-Pratique de Paris; Fellow of the College of Physicians of Philadelphia; Member of the American Philosophical Society; Fellow of the Medico-Chirurgical Faculty of Maryland; Honorary Member of various State and local Societies; Author of a Treatise on the Practice of Medicine; of a Treatise on Materia Medica and Therapeutics; of a Manual of Medical Electricity; etc., etc.

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FIFTH EDITION.

REVISED AND ENLARGED.

PHILADELPHIA:

J. B. LIPPINCOTT COMPANY.

LONDON: 10 HENRIETTA STREET, COVENT GARDEN.

1891.

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# PREFACE TO THE FIFTH EDITION.

Any one familiar with the former issues of this manual will discern that many important alterations have been made in this edition. In fact, the book has been recast, many of the articles have been rewritten, much new matter has been introduced, and the various remedies have been arranged according to the terms of a classification compiled for this purpose. These changes have increased the size of the book by about two hundred pages, and as the page has been enlarged in both directions, the capacity of the book has been materially enhanced.

These additions had become the more necessary because of the increasing importance of the hypodermatic method since the germ theory has so closely occupied the etiological field. It is by means of the injection instrument that in so many instances pathogenic organisms can be reached and effectively treated. It is partly in this way that the subcutaneous method and related forms of injection therapeutics have become essential parts of a physician's equipment.

In selecting the new matter, I have sought to obtain that entirely pertinent to the subject, and in the literary execution have made the attempt to be at once exact and comprehensive. If error has occurred, it is in the direction of admissions to the list of remedies of those that may appear to be useless or unfit, rather than in the exclusion of those considered by others of my readers as distinctly meritorious. I may venture to hope that this edition of the manual will serve the purpose of uniting the technique of the art with the knowledge now possessed of the

pathogeny of microscopic organisms.

It is more especially in the production of synthetic remedies that such phenomenal activity has characterized the later chemical contributions to the Materia Medica. Besides this material, the product partly of scientific and partly of commercial chemists, the increased work devoted to experimental therapeutics has resulted in so much that the task of discrimination between the remedies thus brought forth has greatly added to the labor of preparation for this edition, but I could do no less, seeing that the unwearying kindness of my readers demands from me careful attention to their needs, which is the best assurance of my gratitude for their continued favor.

It gives great pleasure to say that in preparing this edition I have had the assistance of my son, Dr. Paul Bartholow, A.B. (*Harv.*), M.D. (*Jeff.*), who has made notes, verified references, and read proof, thus materially lightening my labors.

ROBERTS BARTHOLOW, M.D.

PHILADELPHIA, September, 1891.

#### PREFACE

#### TO THE FOURTH EDITION.

The rapid progress made in therapeutical science renders necessary frequent revision of any work devoted to its exposition. This is especially true of hypodermatic therapeutics, which deals with the active principles,—the newest products of chemical research, which may be made available for this method of administration. Hence, since the publication of the third edition of this manual, so much has been contributed to this subject, that many changes, and considerable addition of new material, have been found necessary. I have rewritten much of the work, and have added new matter to the extent of one hundred and fourteen pages of text. As heretofore, I have incorporated those new contributions to therapeutics which seem so well grounded as to be permanent additions to knowledge.

In the substitution of the term hypodermatic for the familiar word hypodermic, my action may or may not be generally approved, but the change is urgently demanded in the interests of a correct nomenclature. To make the attempt at substitution successful it will be necessary to have the co-operation of medical authors. The unanimity of scholars in regard to the incorrectness of hypodermic is surely sufficient justification for combined effort.

When referring to the subject of "iridium points" for

needles, I did not know the precise origin of the application of this remarkable metal for this purpose. I have learned since the printing of that part of the work that we owe this important improvement to Dr. William Judkins, of Cincinnati.

R. B.

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