

PRINCIPLES OF INTERNAL MEDICINE

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新文化西書社

地址：上海（九）北京西路630弄M10 電話61688

1950

Preface

The aim of this book is to present within the confines of a single volume a consideration of the disorders that comprise the province of internal medicine. An attempt has been made to integrate the pertinent content of the preclinical sciences with clinical medicine, and to approach the subject not only from the standpoint of disorders of structure, but also by way of abnormal physiology, chemistry, and disturbed psychology. This method of presentation follows the modern trend in medical education. The book is directed primarily at the student and physician who desire a presentation of the important scientific principles that are necessary for a rational understanding of the development, evolution, and management of internal diseases.

The modern view of clinical teaching holds that the classic approach, with primary emphasis on specific diseases, is inadequate, and that the student or practitioner cannot be expected to recognize disease in its various manifestations and to manage it intelligently unless he also understands the basic mechanisms of its cardinal manifestations. The basic mechanisms of disease are no longer solely of academic interest to the investigator and to the teacher, but have now become of immediate practical importance in the care of patients.

Since a proper attitude toward the patient is fundamental to medical practice, the book begins with an introduction entitled Approach to the Patient. This chapter is the work of Drs. William Dock and Henry Brosin, and the editors. The functional approach to the principles of internal medicine is covered in the first five parts of the book. The last two parts deal with specific infectious diseases, and diseases of organ systems.

Part I, Cardinal Manifestations of Disease, includes discussions of the major symptoms and signs, and the manifestations of circulatory failure, renal failure, and anemia, as well as the mechanisms whereby these develop.

Part II, Physiologic Considerations, deals with certain principles which are especially germane

to internal medicine. In planning this portion of the book, the question has repeatedly arisen as to whether certain highly technical subjects should be included. Even though some of these subjects seem at first to be far removed from the bedside, second thought reveals that they are already essential for the understanding of certain disease processes. They will be of increasing importance in the future. The chapter dealing with principles of intermediary metabolism is an example. Initially, this chapter was designed to afford a basis for a proper approach to the subject of diabetes, certain other endocrine disorders, and the deficiency diseases. For these purposes a brief summary of the final common metabolic pathway, including electron transfers, seemed necessary, even though such a consideration involved excursions into organic chemistry, and might be considered as too theoretic. Advances in research soon made it apparent that, for example, the mode of action of diphtheria toxin could be understood only if the role of the cytochrome system in electron transfer were comprehended. The theory of today, when sound, becomes the practice of tomorrow.

Certain manifestations of disease, such as fever and alterations in leukocytes, are considered in Part III, Reactions to Stress and to Antigenic Substances, because recent evidence suggests that psychic disturbances, immunochemical disorders, and the usual physical stresses may act through closely allied mechanisms.

Part IV, Metabolic and Endocrine Disorders, also covers the nutritional disturbances. The omission of the chapters on muscle and bone from Part VII, which deals with diseases of the organ systems, and the inclusion of discussions of metabolic disorders of bone and muscle in this portion of the book, is a departure from custom. It is believed that this arrangement is justified, since expanding knowledge has placed most of the important nonsurgical disorders of bone and muscle in the metabolic field.

Parts V and VI deal with Disorders Due to

Chemical and Physical Agents, and Diseases Due to Biologic Agents. Part V includes brief discussions of radiation injury and of the medical aspects of atomic explosions. Repetition has been avoided in Part VI by the inclusion of chapters dealing with the general management of infectious diseases, and with the use of antibiotics.

Part VII, Diseases of Organ Systems, concludes the book. The unconventional arrangement of the chapters dealing with diseases of the heart is explained in a foreword. In the section on diseases of the nervous system, the discussion has been centered on the common neurologic problems.

The bibliographies are brief and are not intended to be comprehensive. In general, they are limited to only a few especially important original papers, to reviews and monographs containing in themselves extensive references, and to more recent publications.

The decision to devote a considerable part of the book to considerations of basic principles has made it possible to condense many parts of the book, through elimination of needless repetition under each specific disease. Rare disorders have been treated summarily by a few lines or by tabulation, or have been omitted entirely. As the volume has progressed, the conviction has grown that what the student and the physician need is thorough familiarity with common disorders, plus understanding of basic principles.

The book is not the work of the editors and authors alone. A large number of individuals of varying background and experience have performed invaluable service as critics. Among those who have been given most generously of their time for this purpose are Drs. B. V. Jager, Hans H. Hecht, John F. Waldo, Frank H. Tyler, Glen R. Leymaster, G. E. Cartwright, J. C. Nunemaker, Harold Brown, Emil S. Smith, and Francis Binkley of Salt Lake City; Drs. Arthur J. Merrill, Philip Kramer Bondy, Robert P. Grant, James V. Warren, J. C. Ransmeier, Walter H. Sheldon, Walter L. Bloom, Charles M. Huguley, and John L. Patterson, Jr., of Atlanta; Drs. Peter H. Forsham, Thomas F. Frawley, S. Richardson Hill, Jr., Marcel Roche,

and D. Laurence Wilson of Boston; Drs. Julian Acker, E. Strauss, Ben Friedman, M. F. Mason, Willis Sensenbach, Howard E. Heyer, and Louis Tobian of Dallas. Selected portions of the book have been criticized by Drs. George Burch, William Cromartie, William Dock, Thomas Farmer, James Gill, Louis Katz, Eugene Landis, Isaac Starr, and Edward Sulkin. To all these, and many others, including members of our resident staffs and some of our medical students, we are deeply grateful.

Since all chapters have been revised at least once and some several times, and since each revision has been sent to each member of the editorial group, the secretarial work has been unusually demanding. Among those who have contributed importantly are Mrs. Leane Bronstad, Miss Janice Reiter Craig, Miss Betty Anne Finnell, Mrs. Rita Hurley Guinnessy, Mrs. Judith Hopkins, Miss Mary Ruddock Hyde, Mrs. Marian Nelson, Miss Betty Pharr, Miss Rita Purdy, Mrs. Ora Runyon, Mrs. Marie Starks, and Miss Alida Woolley.

The customary polite reference would not do justice to the members of the staff of the Blakiston Company, who have constantly coöperated in every possible way. Special thanks is due Mrs. Eunice Stevens, Associate Medical Editor. Miss Minnie Mae Tims, long-time secretary to the Editor-in-Chief, and Mrs. Stevens have given the major part of five years to the task. Their performance has been far above and beyond the call of duty.

The usual acknowledgment to the publisher would not express our attitude toward the Vice President of the Blakiston Company, Mr. T. A. Phillips, whose concern for the scientific quality of the book has equaled our own. The association with him has been a source of genuine pleasure.

May 1950

P. B. B.
T. R. H.
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