

Applied Pathology

As an Introduction to Disease and Its Control

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Preface

This work, in its first edition, established itself as an acceptable textbook. Much of the credit for this success must be given to its solid foundation "On a Basis of Pathology."

The authors are extremely grateful for the many reviews, criticisms and suggestions since publication of the first edition. This revision has benefited greatly from careful consideration of these, and in addition it has had the advantage of the advances in medical science and its application to nursing education.

This book has been designed to integrate the nurse's earliest studies in basic subjects, such as Anatomy, Physiology, Chemistry and Microbiology, with conditions and problems that she will encounter in her actual clinical experience with the living patient. Her attention is further directed toward general health problems and public prevention and control of disease. The nurse's relation to laboratory procedures has been stressed, while details of technic have been omitted since these are covered elsewhere in the curriculum. We endeavor to help the nurse to understand and remember principles, to know what to look for, what to anticipate and to know where to look to find out what she needs to know.

In Chapter 3, under Tumors, especially noteworthy additions include chronic irritation, leukoplakia, precancer, factors influencing the rate of growth and a brief presentation on cancer tests. The nurse's responsibility in cancer control is emphasized. Several illustrative charts which include "the seven danger signals" enhance this material.

The most extensive revisions and additions will be found in Chapter 6, "How Disease Is Controlled and Prevented." Special emphasis has been placed on the nurse as a vital part of the health team, as the health teacher, as the public health nurse, and in her co-operation with the medical social worker. The World Health Organization, the President's Commission on Health

Needs and the National Health Council are discussed. The Department of Health, Education and Welfare, which recently superseded the Federal Security Agency, receives attention. The value of voluntary health organizations is recognized. Industrial medicine and health insurance are other new features in this chapter.

To bring the text completely up to date, extensive revisions and additions have been made in sections on disturbances of the circulation, endocrines, vitamins and minerals.

The chapter on "The Nervous System" has been changed, and a section on special diagnostic procedures has been added. Illustrations of arteriogram, pneumoencephalogram and myelogram are shown.

All material pertaining to microbiology has been brought up to date, including the pertinent charts. Terms are changed to comply with new nomenclature. In Part Three, a new chapter has been added to include some of the newer microbiologic aspects. Antibiotics, viruses and sensitivity tests are presented. Rules for the collection and the handling of bacteriologic specimens are given.

In the inclusion of new material, efforts have centered on a careful selection in order to achieve a better fulfillment of the aims of authors for this book. With this objective in mind, additional subjects included are Collagen Diseases, Atomic Energy-Radioactive Isotopes, Blood Dyscrasias, Sulfa Drugs, Gamma Globulin, ACTH-Cortisone, Rh factor and Coomb's Test, Shock with diagram, Virus Hepatitis, Liver and Kidney Function Tests and Arthritis. New charts and illustrations have been included, and many new questions have been added to the Review Exercises.

Finally, in spite of the size and the difficulties of the subject at hand, the authors have accepted the challenge with enthusiasm. They feel that it not only is a responsibility but an unusual opportunity to introduce the nurse to medical science and further to stimulate and maintain her interest.

CHARLES G. DARLINGTON
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Acknowledgments

The title page states, "With the Collaboration of Albert Segenreich, B.S., M.D." Such statement is testimony of the authors' estimate of the quality and the quantity of Dr. Segenreich's contribution to this revision. In addition, it shows our appreciation.

To Philip Steinberg, B.S., a Senior Bacteriologist of the City of New York and Head of the Bacteriology Department at Muhlenberg Hospital in Plainfield, N. J., we are most grateful. All material under microbiology, including charts and nomenclature, has been revised by him. Especially noteworthy has been his presentation on antibiotics and viruses. Chapter 20, the first chapter of Part Three, includes this contribution.

Again, we are indebted to the entire staff of the Department of Pathology at New York University College of Dentistry. Its members have helped in innumerable ways whenever called on. Deserving additional special mention are Thomas S. P. Fitch, B.S., M.D., F.A.C.S., Lecturer in Pathology and Attending Neuro-Surgeon at Muhlenberg Hospital, Plainfield, N. J., for his addition "Special Diagnostic Procedures" to his chapter, "The Nervous System." Gregory N. Brown, A.B., M.D., Associate Professor of Pathology, has relieved me (C.G.D.) of many routine duties to allow me more time to this effort, in addition to offering helpful suggestions and constructive criticisms. Preparation of this revision in many ways has been aided materially by Chief Technician, Mrs. Gloria S. Turner and Mr. Paul Dolce.

The help of a competent librarian has been a great asset. Miss Helen Hlavac, A.B., B.S., Assistant Curator and Librarian of The New York University College of Dentistry, has cheerfully and unstintingly assisted us with valuable reference material and she deserves our thanks.

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