J. A. PETER PARÉ, M.D.

ROBERT G. FRASER, M.D.

SYNOPSIS OF DISEASES OF THE CHEST

J. A. PETER PARÉ, M.D.
Director, Respiratory Division,
McGill University, Montreal, Quebec

ROBERT G. FRASER, M.D.
Professor, Diagnostic Radiology,
University of Alabama in Birmingham,
Birmingham, Alabama

SYNOPSIS OF DISEASES OF THE CHEST

1983 W. B. SAUNDERS COMPANY
Philadelphia, London, Toronto, Mexico City, Rio de Janeiro, Sydney, Tokyo

W. B. Saunders Company: West Washington Square
Philadelphia, PA 19105

1 St. Anne's Road
Eastbourne, East Sussex BN21 3UN, England

1 Goldthorne Avenue
Toronto, Ontario M8Z 5T9, Canada

Apartado 26370—Cedro 512
Mexico 4, D.F., Mexico

Rua Coronel Cabrita, 8
Sao Cristovao Caixa Postal 21176
Rio de Janeiro, Brazil

9 Waltham Street
Artarmon, N.S.W. 2064, Australia

Ichibancho, Central Bldg., 22-1 Ichibancho
Chiyoda-Ku, Tokyo 102, Japan

Library of Congress Cataloging in Publication Data

Paré, J. A. Peter.

Synopsis of diseases of the chest.

1. Chest—Diseases. I. Fraser, Robert G., 1921–
II. Title.

RC941.P28 1983 617'.54 82–10616

ISBN 0–7216–7068–7

Synopsis of Diseases of the Chest ISBN 0-7216-7068-7

Last digit is the print numnber: 9 8 7 6 5 4 3 2 1

PREFACE

In the preface to the second edition of our book *Diagnosis of Diseases of the Chest* published in 1977/78, we commented on the vast amount of new knowledge that had accumulated since the publication of the first edition in 1970 and on the resultant expansion of the book from two to four volumes. At the time, we recognized the risk that the book might become purely a reference work but remained hopeful that its organization would enable readers to be highly selective in the material they wished to read, thus preserving the textbook perspective. This has proven not to be the case: the more than 2300 pages of text have proven a formidable barrier to its acceptance as a tome to be read and digested from cover to cover. As a result, we recognized the need for a book that could be used as a text and yet would include information sufficient to a basic understanding of chest disease. Thus was born the idea of a synopsis, an abbreviated coverage of chest disease aimed at the resident in respiratory medicine or radiology, the senior medical student, or any physician or surgeon seeking a concise review of the subject.

The experience of writing the second edition taught us that the addition of new material to a book can be relatively straightforward; since there are few limitations placed on authors by the publisher, length is seldom a problem. By contrast, condensing manuscript can be a formidable task, as we soon discovered, and the abridgment of four volumes to one has proven to be a four-year undertaking. Not only has it been necessary to sacrifice much material—to "separate the wheat from the chaff"—but also to update virtually all sections of the book by adding new material that has appeared in the literature since 1978, compounding the effort to keep the book as short as possible. The 19 chapters in this book follow the same order as the major work, which we hope will make it easy to locate an expanded version of any subject in the four-volume set, if desired. The subdivision of virtually all descriptions of chest disease into etiology, pathogenesis, pathologic characteristics, roentgenographic manifestations, and clinical manifestations has been adhered to, permitting readers to cull the material appropriate to their discipline.

The last chapter is dedicated to tables of differential diagnosis and "decision trees." For purposes of brevity, only nine of 17 tables of differential diagnosis listed in the larger work have been included, comprising those patterns of disease that we have assumed offer the greatest challenge in differential diagnosis. Each table provides a nosologic approach to the differential diagnosis of disease of that pattern, including only minimal reference to clinical status. The decision trees that follow each table introduce into the diagnostic equation the clinical presentation of the patient, affording the reader an opportunity to correlate roentgenographic pattern with clinical signs and symptoms in order to reach the most likely diagnosis.

Since our intention has been to produce a textbook rather than a reference work, we have been very selective in our choice of referenced material, restricting the bibliography to those articles and books that we regarded as most essential for further reading on specific topics. Bibliographies have been placed at the end of each chapter. Illustrations have been reduced in both size and number to reveal only essential features of roentgenographic abnormality. Figures depicting normal and pathologic anatomy of the thorax by computed tomography were few in number

in *Diagnosis of Diseases of the Chest*, an omission that has been corrected in *Synopsis*.

We have been concerned for many years with the wide range of terminology employed by physicians in the description of roentgenographic abnormalities in the thorax. In order to clarify the confusion, the Fleischner Society formed a Committee on Nomenclature several years ago that designed a glossary of roentgenologic words and terms. This task is nearing completion, and, with the permission of the Fleischner Society, we are including at the end of this book a glossary of selected words that we hope our readers will refer to and use.

Finally, we invite our readers to inform us of differences of opinion they may have with the contents of this book. It is only through such interchange of information and opinion that we can hope to establish on a firm basis the knowledge necessary for a full understanding of respiratory disease.

J. A. PETER PARÉ
ROBERT G. FRASER

ACKNOWLEDGMENTS

The preparation of this book has required almost four years—a period of tedium and stoicism mixed with gratification. As might be expected in a task requiring the abridgment of a manuscript to approximately one-quarter its original size, the labor has been chiefly ours. However, the many steps necessary to the final product required the unselfish and enthusiastic contributions of several hands and minds, and the support and encouragement we received from many of our friends are duly acknowledged and greatly appreciated.

It is not possible to overstate our gratitude to our secretaries, who handled magnificently the tedious and necessarily exacting task of transcribing new manuscript and who cheerfully coped with all of the innumerable problems encountered. Mrs. Maria Karpowicz and Ms. Anna-Maria Messenzehl of the Montreal Chest Hospital Center and the Royal Victoria Hospital in Montreal and Miss Sheila Walker and Mrs. Carolyn Bryant of the University of Alabama Medical Center in Birmingham all exhibited exemplary patience and devotion in accomplishing this thorny chore. Miss Walker and Mrs. Bryant also carried out the tedious job of recording, filing, checking, and final validation of all references, a frustrating chore that they performed with meticulous accuracy.

Although the majority of illustrations were lifted from the second edition of *Diagnosis of Diseases of the Chest*, the few new figures required the superb photographic work of Susan Gray of the Department of Radiology, University of Alabama Medical Center in Birmingham. Joanne Fraser did much of the art work for the CT figures.

Throughout our labors, we have received tremendous support and cooperation from the publishers, notably Ms. Suzanne Boyd and Mr. Jack Hanley, who affectively and sympathetically minimized the many obstacles we encountered.

Finally, and with immense gratitude, we recall the patience and understanding displayed by our wives and children throughout our labors. Without their continuous encouragement, this book surely would not have been completed, and we acknowledge their many virtues with much love.

J. A. PETER PARÉ
ROBERT G. FRASER

CONTENTS

15

16