

C. FREDERIC FLUHMANN, B.A., M.D., C.M.

*Chief of Obstetrics and Gynecology,
Presbyterian Medical Center,
San Francisco, California*

*Clinical Professor of Obstetrics and Gynecology,
Stanford University School of Medicine,
Palo Alto, California*

THE CERVIX UTERI And Its Diseases

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PREFACE

A CONSIDERABLE PART of the practice of gynecology is based on diseases of the cervix uteri. Nevertheless, the cervix in the past has received limited attention in most standard textbooks, which dealt with it as merely a portion of the uterus and not as a separate organ with a destiny completely different from that of the corpus. In recent years, however, the picture has changed, a lively interest having developed in the subject, focused upon the recognition of preinvasive carcinoma, the treatment of inflammatory diseases and defects of the internal os, problems of infertility, and newer concepts of physiology, anatomy, and histology. For these reasons it has seemed appropriate to devote a single volume to the cervix uteri and its diseases.

I have written this book having in mind primarily the practitioner of medicine who treats gynecologic disorders, and special attention has been directed to the diagnosis, clinical manifestations, and both medical and surgical treatment of the diseases of the cervix. However, a complete discussion has necessitated detailed descriptions of pathologic changes and in fact an understanding of them is inseparable from an adequate clinical approach. It also has seemed inevitable that a proper introduction should present an account of the anatomy, histology, and physiology of the normal cervix since this information is not generally available. The chapter dealing with radiotherapy for carcinoma contains an outline of fundamental principles that should be familiar to all gynecologists. The cervix during pregnancy offers special problems that have seemed to warrant extended discussion in a single section.

In some chapters, particularly those devoted to developmental anatomy, carcinoma in situ, and histology, I have advanced certain views and introduced terms which are a product of my own investigations. I do this without apology as other theories which have been accepted in the past also are given. A list of

alphabetized references is appended to each chapter but it does not purport to represent a complete bibliography and I am truly sorry if any important contributions have been overlooked. In referring to multiple bibliographic references in the text I have listed them chronologically by number, rather than consecutively. Thus the reader will always find the latest reference listed last.

The illustrations required almost as much time and effort as the preparation of the text and the generous number allowed by the publisher greatly facilitated not only the descriptions of operative procedures but of the finer details of the histology of the cervix, the pathology of both common and rare diseases, and radiotherapy of cervical carcinoma. It is hoped, therefore, that this volume may prove of assistance not only to the practitioner who treats gynecologic disorders but to interested specialists in the fields of pathology and roentgenology.

C. FREDERIC FLUHMANN
Presbyterian Medical Center
San Francisco 15
California

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THE BASIS FOR THIS BOOK evolved during a period of some thirty-five years when the clinical and pathologic material of the Department of Obstetrics and Gynecology, Stanford University School of Medicine, was available to me. More recently the facilities of the Presbyterian Medical Center, San Francisco, also have been used. The research studies were made possible by special grants (RG-4034 and C-5219) from the National Institutes of Health, United States Public Health Service.

In spite of the fact that writing a medical book is a tedious and seemingly endless task the willing response to calls for help from friends and members of the profession is a heartwarming experience and I am very grateful for the generous assistance I have received from many sources. Some sections of the manuscript were read by Doctors L. H. Garland, H. S. Kaplan, M. A. Bagshaw, A. N. Arneson, and H. M. Lyons. They made many helpful suggestions but I must accept full responsibility for the final text. Microscopic sections of unusual pathologic changes were sent to me for study by Doctors H. Acosta-Sison, V. M. Areán, M. R. Abell, George P. Heckel, G. B. Pimentel, and Paul Peterson, and from these I was able to select adequate fields for photomicrographs. The illustrations for the colored plate were by Dr. Wilson Footer, a pioneer in the art of color colpophotography, except for the one of cervical tuberculosis by Dr. L. A. Emge, and Dr. H. J. Wespi contributed three photographs taken with the colposcope. Dr. Margaret T. McLennan selected the cytologic smears for photomicrographs, and Dr. M. A. Bagshaw the roentgenographs illustrating the application of radium for the treatment of cervical carcinoma. Dr. C. E. McLennan greatly facilitated my review of pathologic sections from the Stanford Gynecology Laboratory for the selection of material for photographs, and most of the original

photomicrographs are the work of Mr. W. E. Renner, while others are by Mr. Paul Tracy. Mr. James Brodale made the drawings used in Plate I and Plate III.

Doctors L. Parsons and H. Ulfelder generously allowed me to reproduce the illustrations for the operation of radical hysterectomy from their *Atlas of Gynecologic Operations*, and diagrams of other operations published elsewhere are by Doctors R. H. Barter and his associates, A. F. Lash, E. W. Page, and Wayne F. Baden. Other photomicrographs and diagrams are from articles or books of Doctors L. B. Arey, R. B. Greenblatt, S. B. Gusberg, Erle Henriksen, A. T. Hertig, T. N. A. Jeffcoate, W. R. Lang, A. Lilienfeld, S. L. Marcus, Allan Palmer, R. M. H. Power, and Claud Taylor. Permission was freely given for the use of this material by the editors and publishers concerned, and it also has been a privilege to reproduce an anatomic sketch by Dr. F. E. Blaisdell, Sr., an eminent member of the Stanford faculty in its early days, and the original drawings of Dr. A. Sturmdorf's operation. The colored illustration opposite the title page is from the *Curtis-Huffman Textbook of Gynecology*.

Miss Eleanor Craig and Mrs. Vera Bates have been most helpful to me in the preparation of the manuscript, and the staff members of the W. B. Saunders Company have contributed invaluable assistance and given me their wholehearted cooperation. And finally, I must express a debt of gratitude to my wife for her patient understanding and encouragement during the long period necessary for the completion of this task.

C. FREDERIC FLUHMANN

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SECTION

I

The Normal Cervix

