BREAST CANDAR

DIAGNOSIS & TREATMENT

IRVING M. ARIEL JOSEPH B. CLEARY

BREAST CANCER

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Irving M. Ariel, M.D., F.A.C.S., M.S.

Professor of Clinical Surgery New York Medical College State University of New York at Stony Brook

Attending Surgeon Long Island Jewish Hospital, New Hyde Park Cabrini Medical Center, New York

Consultant Surgeon Hospital for Joint Diseases and Orthopedic Institute New York, New York

Joseph B. Cleary, M.D., F.I.C.S

Clinical Instructor in Surgery
New York Medical College, Valhalla, New York
Attending Surgeon, Doctors Hospital, New York
Staff Surgeon, Cabrini Medical Center, New York
and Westchester County Medical Center
Valhalla, New York



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NOTICE

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BREAST CANCER

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Contributors

Martin D. Abeloff, M.D.

Associate Professor of Oncology and Medicine, The Johns Hopkins Oncology Center, The Johns Hopkins Hospital and Medical School, Baltimore, Maryland

Irving M. Ariel, M.D., F.A.C.S., M.S.

Professor of Clinical Surgery, New York Medical College and State University of New York at Stony Brook; Attending Surgeon, Long Island Jewish Hospital, New Hyde Park, Cabrini Medical Center, and Doctors Hospital, New York; Consultant Surgeon, Hospital for Joint Diseases and Orthopedic Institute, New York, New York

Oliver Beahrs, M.D.

Professor of Surgery, Emeritus, Mayo Medical School, Rochester, Minnesota

Maurice Black, M.D.

Director, Institute of Breast Diseases; Clinical Professor of Pathology, New York Medical Center and Westchester County Medical Center, Valhalla, New York

Arthur S. Caron, M.D.

Adjunct Attending Surgeon, Breast Service, Department of Surgery, Memorial Sloan-Kettering Cancer Center; Attending Surgeon, Doctors Hospital, New York, New York

Stephen K. Carter, M.D.

Senior Vice President, Anti-Cancer Research, Pharmaceutical Research and Development Division, Bristol-Myers Co., New York, New York

Angelo Cammarata, M.D., F.A.C.S., F.I.C.S.

Assistant Clinical Professor of Surgery, New York Medical College; Attending Surgeon, Breast Service, Cabrini Medical Center; Associate Attending Surgeon, Doctors Hospital and Metropolitan Hospital Medical Center, New York, New York

Florence Chu, M.D.

Associate Chairman, Department of Radiology, New York Hospital; Chief, Division of Radiology Oncology, Department of Radiology, New York Hospital; Consultant, Memorial Hospital for Cancer and Allied Diseases; Professor of Radiology, Cornell University Medical College, New York, New York

Joseph B. Cleary, M.D., F.I.C.S.

Clinical Instructor in Surgery, New York Medical College, Valhalla; Attending Surgeon, Doctors Hospital, New York; Staff Surgeon, Cabrini Medical Center, New York and Westchester County Medical Center, Valhalla, New York

Hiram S. Cody III, M.D.

Assistant Attending Surgeon, St. Lukes-Roosevelt Hospital Center; Instructor in Clinical Surgery, Columbia University College of Physicians and Surgeons, New York, New York

Andrew James Coldman, M.D.

Senior Statistician, Division of Epidemiology, Biometry, and Occupational Oncology, Cancer Control Agency of British Columbia, Vancouver, British Columbia, Canada

Robert Crichlow, M.D.

William and Bessie Allyn Professor of Surgery; Chairman, Department of Surgery, Dartmouth-Hitchcock Medical Center, Hanover, New Hampshire

Joseph P. Crowe, M.D.

Department of Surgery, Case Western Reserve University Hospital, Cleveland, Ohio

Leonid Deemarsky, M.D.†

Petrov Research Institute of Oncology, Leningrad, USSR

John M. Edwards, M.S., F.R.C.S.

Attending Surgeon, St. Thomas Hospital, London, England

Douglas B. Evans, M.D.

Resident in General Surgery, Dartmouth-Hitchcock Medical Center, Hanover, New Hampshire

Zvi Fuks, M.D.

Chairman, Department of Radiation Oncology, Memorial Sloan-Kettering Hospital, New York, New York

Francis J. Gillen, M.D.

Attending Surgeon, Plastic and Reconstructive Surgery, Doctors Hospital, New York, New York

Rita Girolamo, M.D.

Vice-Chairman of Radiology, Department of Radiology, New York Medical College, Valhalla, New York

James H. Goldie, M.D.

Head, Division of Medical Oncology, Cancer Control Agency of British Columbia; Clinical Professor of Medicine, University of British Columbia, Vancouver, British Columbia, Canada

William Goodson III, M.D., F.A.C.S.

Associate Professor of Surgery and Chief, Breast Screening Center, University of California Medical Center, San Francisco, California

Erza M. Greenspan, M.D.

Clinical Professor of Medicine (Oncology), The Mount Sinai School of Medicine; Attending Physician, Mount Sinai Hospital, New York, New York

†Deceased

James N. Ingle, M.D.

Consultant in Medical Oncology, The Mayo Clinic; Associate Professor of Oncology, Mayo Medical School, Rochester, Minnesota

Merrill Kies, M.D.

Associate Professor of Clinical Medicine, Medical Oncology Section, Northwestern University, Chicago, Illinois

Raymond D. LaRaja, M.D., F.A.C.S.

Associate Professor of Clinical Surgery, New York Medical College; Director of Surgery, Cabrini Medical Center; Attending Surgeon, VA Medical Center; Associate Attending Surgeon, Bellevue Medical Center, New York, New York

Henry Patrick Leis, Jr., M.D., F.A.C.S., F.I.C.S.

Clinical Professor of Surgery, Chief of the Breast Service, and Co-Director of the Institute of Breast Diseases at New York Medical College; Chief of Breast Surgery, Cabrini Medical Center, New York, New York; Clinical Professor of Surgery in Breast Surgical Oncology, University of South Carolina School of Medicine, Columbia, South Carolina

Gerson Lesnick, M.D.

Clinical Professor of Surgery, Emeritus, Mount Sinai School of Medicine (CUNY); Consultant Surgeon, Mount Sinai Hospital, New York, New York

Katherine Yue Yuin Li, M.D.

Professor and Head of the Department of Surgery, Shanghai First Medical College, Shanghai, Peoples Republic of China

Jane F. Lynch, B.S.N.

Instructor, Department of Preventive Medicine/Public Health, Creighton University School of Medicine and the Hereditary Cancer Institute, Omaha, Nebraska

Henry T. Lynch, M.D.

Professor and Chairman, Department of Preventive Medicine/Public Health and Professor of Medicine, Creighton University School of Medicine, Omaha, Nebraska

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CONTRIBUTORS

Andrea Manni, M.D.

Associate Professor of Medicine, Division of Endocrinology, The Milton S. Hershey Medical Center, The Pennsylvania State University, Hershey, Pennsylvania

Mohamed F. Manji, M.D.

Radiation Oncologist and Clinical Assistant Professor, University of British Columbia, Cancer Control Agency of British Columbia, Vancouver, British Columbia, Canada

Robert J. McKenna, M.D., F.A.C.S.

Clinical Professor of Surgery, University of Southern California School of Medicine, Wilshire Oncology Medical Group, Los Angeles, California

Curtis Mettlin, Ph.D.

Chief, Epidemiologic Research, Roswell Park Memorial Institute, Department of Health-New York State, Buffalo, New York

Michael P. Osborne, M.D., M.S., F.R.C.S., F.A.C.S.

Assistant Attending Surgeon, Department of Surgery, Memorial Sloan-Kettering Cancer Center; Associate Professor of Surgery, Cornell University Medical Center; Visiting Associate Physician, The Rockefeller University Hospital, and Adjunct Faculty Member, The Rockefeller University, New York, New York

Vincent R. Pennisi, M.D., D.D.S., F.A.C.S.

Clinical Associate Professor of Surgery (Plastic Surgery), University of California School of Medicine, St. Francis Memorial Hospital, San Francisco, California

Romulo Prudente, M.D.

Attending Pathologist, Department of Pathology, Doctors Hospital, New York, New York

Joseph Ragaz, M.D.

Medical Oncologist and Assistant Professor, University of British Columbia, Cancer Control Agency of British Columbia, Vancouver, British Columbia, Canada

Guy Robbins, M.D.

Consultant-Breast Service, Department of Surgery, Memorial Sloan-Kettering Cancer Center, New York, New York

Robert E. Rothenberg, M.D., F.A.C.S.

Clinical Professor of Surgery, New York Medical College; Director, Surgical Research, Cabrini Medical Center, New York, New York

Fernando A. Salinas, D.V.M.

Senior Research Scientist and Professor of Pathology, Faculty of Medicine, University of British Columbia; Senior Oncologist, Cancer Control Agency of British Columbia, Vancouver, British Columbia, Canada

Daniele Sarrazin, M.D.

Chief of the Breast Division, Department of Radiation— Oncology, Institüt Gustave Roussy, Villejuif, France

John H. Seashore, M.D.

Professor of Surgery and Pediatrics, Yale University School of Medicine, New Haven, Connecticut

V. R. Semiglazov, M.D.

Chief, Breast Tumors Department, Petrov Research Institute of Oncology, Leningrad, USSR

Joel H. Shaper, M.D.

Associate Professor of Oncology and Associate Professor of Pharmacology and Experimental Therapeutics, The Johns Hopkins Oncology Center, The Johns Hopkins Hospital and Medical School, Baltimore, Maryland

Zhen-Zhou Shen, M.D.

Lecturer in the Department of Surgery, Shanghai First Medical College, Shanghai, Peoples Republic of China

Richard V. Smalley, M.D.

Chief of Biological Resources Branch, Frederick, Maryland

Adrienne Snyderman, M.S.W.

Adjunct Instructor, UMDNJ-The Robert Wood Johnson Medical School; Consultant, The Comprehensive Breast Center, New Brunswick, New Jersey

Reuven K. Snyderman, M.D.

Professor and Chief, Section of Plastic and Reconstructive Surgery; Co-Director, The Comprehensive Breast Center, UMDNJ-The Robert Wood Johnson Medical School, New Brunswick, New Jersey

Phillip Strax, M.D.

Clinical Professor of Oncology, University of Miami School of Medicine, Miami, Florida; Associate Clinical Professor, Community and Preventive Medicine, New York Medical College, Valhalla, New York; Medical Director, Guttman Breast Diagnostic Institute, New York, and Strax Breast Cancer Detection Institute, Fort Lauderdale, Florida

Pin Kie Teng, M.D.

Director, Department of Pathology, Doctors Hospital, New York, New York

Mary Ann Tinker, M.D.

Associate Director of Surgery, Queens Hospital Center Affiliation of Long Island Jewish Medical Center; Assistant Professor of Surgery, State University of New York at Stony Brook; Staff Surgeon, Long Island Jewish Medical Center, Long Island, New York

Zelig A. Tochner, M.D.

Radiation Oncology Branch, National Cancer Institute, Bethesda, Maryland

Nicholas J. Toghia, J.D.

Partner, Acret and Perrochet, Lawyers, Los Angeles, California

Maurice Tubiana, M.D.

Department of Radiation Therapy, Institüt Gustave Roussy, Villejuif, France

Jerome A. Urban, M.D.

Consultant, Breast Service, Department of Surgery, Memorial Sloan-Kettering Hospital, New York, New York; Clinical Professor of Surgery, Cornell University Medical School; Attending Surgeon, Roosevelt Hospital and Doctors Hospital, New York, New York

T. Phillip Waalkes, M.D.

Professor of Oncology, The Johns Hopkins Oncology Center, The Johns Hopkins Hospital and Medical School, Baltimore, Maryland

Robert S. Weiss, Ph.D.

Professor of Sociology, University of Massachusetts, Boston, Massachusetts

Margery Wiesenthal

National Director of the American Cancer Society and National Coordinator of the Reach-to-Recovery Program, White Plains, New York

Richard E. Wilson, M.D.

Chief, Surgical Oncology, Brigham and Women's Hospital and Dana-Farber Cancer Institute; Professor of Surgery, Harvard Medical School, Boston, Massachusetts

Leslie Wise, M.D.

Chairman, Department of Surgery, Long Island Jewish Medical Center; Professor of Surgery, State University of New York at Stony Brook; Professor and Chairman, Department of Surgery, City University of New York Medical School, Long Island Jewish Medical Center, Long Island, New York

Ann J. Worth, M.D., F.R.C.P.

Director of Clinical Laboratories and Clinical Professor of Pathology, University of British Columbia, Cancer Control Agency of British Columbia, Vancouver, British Columbia, Canada

Reinhard E. Zachrau, M.D.

Co-Director, Institute of Breast Diseases, Associate Professor of Pathology, New York Medical College, Westchester County Medical Center, Valhalla, New York

Herman Zuckerman, M.D.

Assistant Clinical Professor of Radiology, Mount Sinai Hospital Medical School; Associate Radiologist, Beth Israel Hospital; Consultant, Roosevelt Hospital, New York, New York

Preface

A medical revolution had taken place in the management of patients with breast cancer. There was a change in the radical surgical approach which had been used for centuries. The radical mastectomy operation is now being replaced with less traumatic procedures. After conservative surgery, radiation therapy is strongly advocated as a means of destroying any residual cancer within the breast. The multiple disciplinary approach of treating breast cancer invited questions and speculations. The discoveries in chemotherapy, immunotherapy, endocrine therapy, etc., each play a role in the total treatment of the patient. There resulted an avalanche of studies from specialists advocating their own therapies. My approach was to present a current and true update regarding the indications, complications, and results for treating the different types and stages of breast cancer. A unified method for reporting end-results is presented so that the reader could decide what was the best method or combination of methods for various subsets of patients with cancer. It is the hope of this editor that the indications, techniques, complications, and end-results of each modality are objectively presented.

A review of the efforts made to cope with breast cancer in the past is developed in Chapter 1. The attitude of a physician evaluating a patient suspect or proved of having breast cancer is summarized in Chapter 2.

Since practically nothing is known about the exact etiology of breast cancer, a quest is necessary to discover which patients are at risk and which factors contribute to that risk. This subject is dis-

cussed in Chapter 3. Chapter 4 is devoted to the role of heredity in the etiology of breast cancer and Chapter 5 presents the physiologic and pathologic aspects of fibrocystic disease. Chapter 6 lists the criteria for the identification of high risk patients and the establishment of a special surveillance clinic for their monitoring.

Accurate and precise classification is mandatory and is presented in Chapter 7. At present there are about thirty different types of breast cancers which are based on pathologic criteria. The pathology of breast cancer is discussed in Chapter 8. The employment of relatively new chemical identifiers, the "hormone receptors," is discussed in Chapter 9. The body's mechanism is a most important factor in the efforts to control cancer and this is presented in Chapter 10.

Section IV discusses our present methods of detecting and diagnosing breast cancer. Chapter 11 presents the results of mammographic screening of many women and gives the number of cancer so diagnosed and their prognosis. Chapter 12 presents the effects of mammography in detecting, describing, and diagnosing breast cancer. Imaging techniques other than mammography as well as biologic markers that may give clues for the detection of breast cancer are presented in Chapters 13 and 14. Chapter 15 is devoted to the different techniques for obtaining a biopsy.

Section V presents various options open to the physician for "curing" a patient with breast cancer and covers Chapters 16 to 25.

The management of clinically nonpalpable breast cancer (although not early cancer) is presented in

Chapter 16. If the decision is made for local excision and radiotherapy, the indications and techniques of surgery are presented in Chapter 17, and the radiation factors and results in Chapter 18. The choice of operative procedures are then discussed. Chapter 19 discusses the role of modified mastectomy. Chapter 20 deals with the radical mastectomy, presenting the indications and accomplishments of each type of operation, while Chapter 21 covers extended radical mastectomy. Radiation therapy is discussed in some detail in Chapter 23.

The incidence, methods of treatment, and prognostic significance or regional recurrence are detailed in Chapter 24.

A philosophy is developing in that cytotoxic chemotherapy would be beneficial as the first line of attack and this is discussed in Chapter 25.

Chapter 26 deals with adjuvant cancer therapy, its beneficial results, indications, and complications.

The role of surgery that includes the incidents, prognostic significance, and results of surgical treatment of regional recurrences is discussed in Chapter 27. The role of hormone manipulation and cancer chemotherapy are presented in Chapters 28 and 29. The indications and accomplishments of radiation therapy as a palliative procedure are detailed in Chapter 30. The roles of interferon and other biologics in the management of advanced breast cancer are discussed in Chapter 31.

Rarely will a breast cancer grow to huge crippling proportions after exhausting all other forms of treatment and remain localized. In such instance interscapulomammothoracic amputation offers palliation and may even prolong life (Chapter 32).

An overview of accomplishments by the reconstructive surgeon is presented in Chapter 33.

Section VIII includes treatment of nipple disease and cancer (Chapter 34), inflammatory cancer (Chapter 35), and what one does with the opposite breast in a patient with cancer on one breast (Chapter 36). Breast disease in children is presented in Chapter 37.

Chapter 38 deals with the treatment of the pregnant woman who develops breast cancer during her pregnancy. Chapter 39 discusses the many unusual breast cancers, such as melanoma arising in the skin of the breast, or those rare cancers arising from the supporting structures. The rare development of cancer in the male breast is covered in Chapter 40.

Section IX represents a relatively new but well-deserved dimension in a medical book. It deals with the patient's reactions and rights. Chapters 41 and 42 discuss the emotional aspects of the patient, and Chapter 43 discusses a most worthwhile practice whereby women who had previously been subjected to a mastectomy come to the hospital to give solace to candidates for breast surgery.

The book closes with Chapter 45 that deals with the laws of different states to protect the patient against unscrupulous practices.

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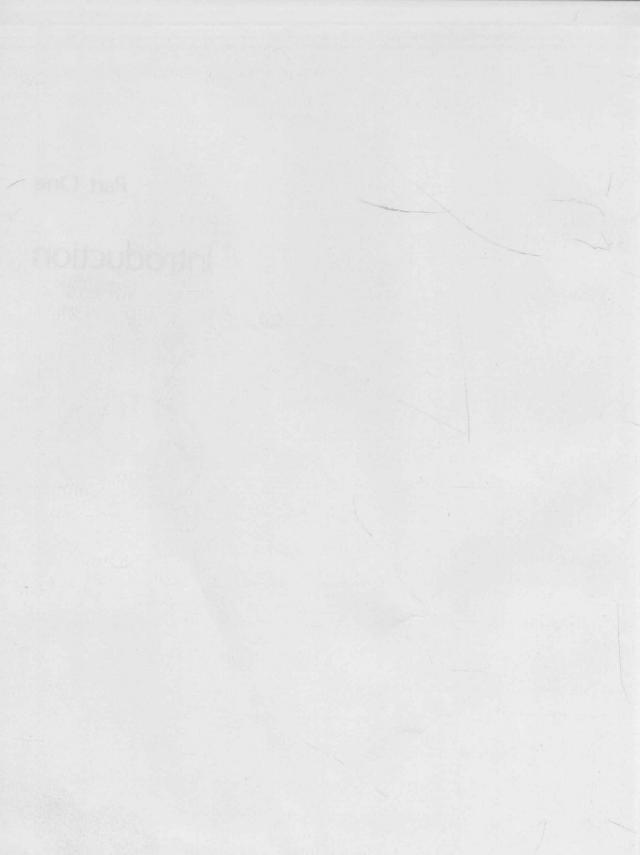
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Part One

Introduction







1

Breast Cancer A Historic Review: Is the Past Prologue?

Irving M. Ariel, M.D.

Let us not cast aside things that belong to the past, for only with the past can we weave the fabric of the future.

Anatole France

INTRODUCTION

Cancer of the breast is as ancient as medical history. The two major forces that have dominated the development of treatment policies are (1) the attitudes of women who suffer from cancer toward their breasts; and (2) developments in medical science, spurred on by medical pioneers.⁵⁹ This chapter will attempt to trace the development of treatment policies through the ages and explore how some present-day techniques have developed from ancient concepts and methods of treating breast cancer.⁴⁰

It is a pleasure to acknowledge my great indebtedness for this brief historic review to many sources, especially to the erudite and comprehensive presentations of William A. Cooper,¹⁹ Edward Lewison, David Schechter,⁷³ and the late George Degenshein;²² and Bernice Sachs,⁷¹ for her history of women's attitudes toward their breasts.

WOMEN'S ATTITUDES TOWARD THEIR BREASTS

How women perceive their breasts has been a dominant force through the ages. It determines the willingness or reluctance of women to lose their breasts, and the reluctance of surgeons to do that which women accept unwillingly. The female breasts have been acclaimed universally through the centuries as symbols of beauty.⁸⁷ In art, literature, theater, movies, television,

and advertising, the female breasts are glorified. These modified sweat glands are defined in a mundane manner in Gray's *Anatomy* as follows:

The mammae secrete the milk and are the accessory glands of the generative system... In the female they are two large hemispherical eminences lying within the superficial fascia and situated on the front and sides of the chest; each extends from the second rib above to the sixth rib below, and from the side of the sternum to the mid-axillary line. Their weight and dimensions differ at different periods of life and in different individuals. ²⁷

These two hemispheres filled with adipose, glandular, and fibrous tissue have been the objects of constant medical debate regarding the treatment of the physiologic and pathologic changes that occur in them. In view of the attitudes, albeit often exaggerated, toward the female breast, is it any wonder that a woman with normal breasts except for the presence of an asymptomatic lump (and in some instances no lump, but a diagnosis made by mammographic examination) is loathe to have her breast amputated?^{8,29} (Fig. 1-1.)

Historically, this is a complete turnabout. König, in 1893, wrote:



Figure 1-1 The martyrdom of St. Agatha by Anthony Van Dyck. The inserts: Top (from Scultetus) and bottom (from Milne) show the instruments used for removal of the breast as a means of torture, later developed to treat breast cancer.

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