# Women's Health

IN PRIMARY CARE

Jo Ann Rosenfeld

# WOMEN'S HEALTH IN PRIMARY CARE

#### **Editor**

#### Jo Ann Rosenfeld, M.D.

Associate Professor of Family Practice Bristol Family Practice Center East Tennessee State University, James H. Quillen College of Medicine Bristol, Tennessee

# Special Considerations for Nurse Practitioners and Physician Assistants written by

#### Nancy Alley, RN.C., F.N.P., Ph.D.

Associate Professor of Family and Community Nursing Associate Dean East Tennessee State University, College of Nursing Johnson City, Tennessee

#### Assistant Editors

#### Louise S. Acheson, M.D., M.S.

Associate Professor of Family Medicine Case Western Reserve University School of Medicine University Hospitals of Cleveland Cleveland, Ohio

#### Jacqelyn B. Admire, M.S.P.H.

Assistant Director of Scientific Activities American Academy of Family Physicians Kansas City, Missouri Editor: Jonathan Pine

Managing Editor: Leah Hayes

Production Coordinator: Marette Magargle-Smith

Copy Editor: Susan Sfarra

Designer: Silverchair Science & Communications, Inc.
Cover Designer: Silverchair Science & Communications, Inc.

Typesetter: Peirce Graphic Services, Inc.

Printer: R.R. Donnelley Binder: R.R. Donnelley

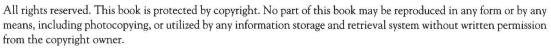
Copyright © 1997 Williams & Wilkins

351 West Camden Street

Baltimore, Maryland 21201-2436 USA

Rose Tree Corporate Center 1400 North Providence Road Building II, Suite 5025

Media, Pennsylvania 19063-2043 USA



Accurate indications, adverse reactions and dosage schedules for drugs are provided in this book, but it is possible that they may change. The reader is urged to review the package information data of the manufacturers of the medications mentioned.

Printed in the United States of America

First Edition,

#### Library of Congress Cataloging-in-Publication Data

Women's health in primary care / editor, Jo Ann Rosenfeld; special considerations for nurse practitioners and physician assistants written by Nancy Alley; assistant editors, Louise S. Acheson, Jacqelyn B. Admire.

p. cm.

Includes index.

ISBN 0-683-07366-4

1. Women—Diseases. 2. Women—Health and hygiene. 3. Primary care (Medicine) I. Rosenfeld, Jo Ann. II. Alley, Nancy. III. Acheson, Louise S. IV. Admire, Jacqelyn B.

[DNLM: 1. Women's Health. 2. Primary Health Care. WA 309 W8735 1997]

RC 48.6.W645 1997 616'.0082—dc20 DNLM/DLC

for Library of Congress

96-13729

CIP

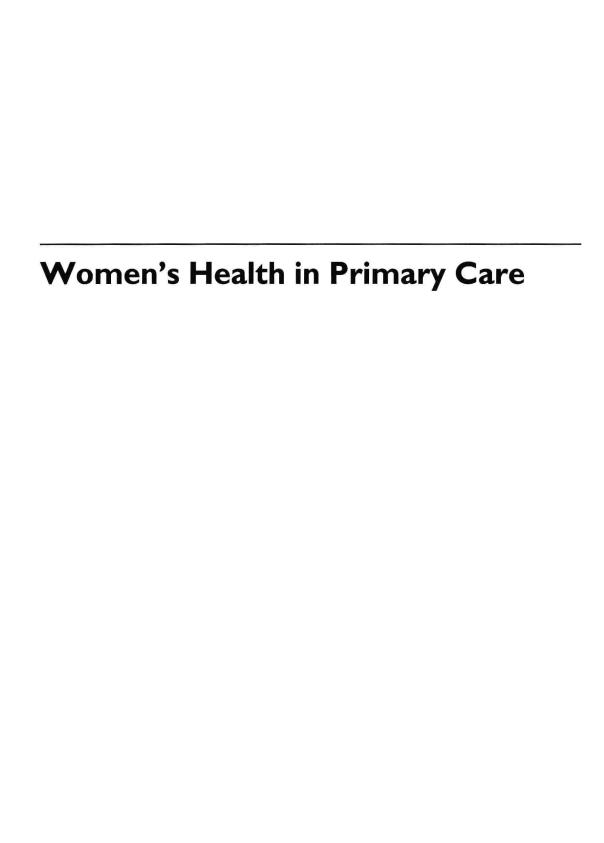
The publishers have made every effort to trace the copyright holders for borrowed material. If they have inadvertently overlooked any, they will be pleased to make the necessary arrangements at the first opportunity.

To purchase additional copies of this book, call our customer service department at (800) 638-0672 or fax orders to (800) 447-8438. For other book services, including chapter reprints and large quantity sales, ask for the Special Sales Department.

Canadian customers should call (800) 268-4178, or fax (905) 470-6780. For all other calls originating outside of the United States, please call (410) 528-4223 or fax us at (410) 528-8550.

Visit Williams and Wilkins on the Internet: http://www.wwilkins.com or contact our customer service department at custserv@wwilkins.com. Williams & Wilkins customer service representatives are available from 8:30 am to 6:00 pm, EST, Monday through Friday, for telephone access.

97 98 99



This book is dedicated to my parents and my children. Jo Ann Rosenfeld

### **Preface**

"Why are women the opposite sex? They are more like men than any other creature on earth."

—Dorothy Sayers

In an ideal world, this book would not be necessary. Women would not be the "opposite" sex. However, women and their health concerns have often, unfortunately, been considered as certainly different, alternate, and less important imitations of those of men. Over time, women's health concerns have not always merited the time, concern, involvement, research, and regard that they deserve. Thus, this book has been developed for all primary health care providers—physicians, nurse practitioners, and physician assistants—as a comprehensive guide to the whole life cycle of women's health. It has been written by primary care providers who work with women daily. It is intended for the primary care provider who plans to take the opportunity to give women and their health the attention they require.

This book has been written with four principles in mind. First, women and their concerns cannot be fit into the pattern of men's concerns, especially when we truly do not know where that fit is accurate and where it is inadequate, because of the lack of womaninclusive research. Women's issues will be examined in light of the available research and with the position that these are important

problems for women. Hopefully, more studies that chronicle women's health over time, like the Nurses' Health Study, will give us answers to many of the questions to which we now have no solid answers.

Secondly, women can only be understood in the context of their particular place in their life, family, culture, and society. The provider must take the time to learn about where every woman fits in her life cycle and in her family. A 60-year-old woman can be at the apex of a career, retired and caring for an older spouse, or raising her toddler-grandchildren.

Thirdly, medicine and health care providers cannot generalize for all women, any more than women can be considered shadows of men. Individuality is the rule. Each woman has different needs and plans. Each woman faces adolescence, widowhood, motherhood, or death differently. Although some women may have some symptoms during menopause, it cannot be generalized that all women will react, or will react similarly, to those symptoms. The provider must learn both how women differ and are similar to men, and how they differ from each other.

Lastly, medicine cannot be "practiced" on women. It is possible for the provider and woman to work together to help her find and maintain good health in a sensitive, noninvasive, individualistic way. This book hopes to support such an application of the medical and psychologic sciences for the health of all women and each woman.

Primary care providers, in their continuing care of women throughout their life, should and do continue to care for women during pregnancy and delivery. Care of the woman in pregnancy and in labor should not be com-

partmentalized; it should be a seamless connection with the care of the whole woman and the whole family. The care of the woman who is pregnant will be found in many chapters in this book. However, this book cannot hope to measure the whole depths of the discussion of pregnancy and delivery, but attempts to consider philosophy, care, and how the pregnant woman is affected by other considerations and problems.

The key to this book is comprehension, both in scope and understanding. We have created a book that spans the widest breadth of considerations of women's concerns and problems. We have dealt with more than women's diseases, including also health promotion and concerns throughout her life. Health promotion is an inclusive and extensive task that takes the cooperation and coordination of the woman, her provider, and often her family and society.

We have sought to examine the totality of women's lives, both the traditional medical and the less customary psychological and social concerns. Women are more than gynecologic organs that need monitoring. The diseases women face are much wider than just those that affect the genitourinary system. We have striven to examine the available research and to observe its validity, in light of a model of a woman until now seldom revealed and recognized, as an individual with particular tendencies and with individual and valid responses. Hopefully, in this way, the provider can come to understand, appreciate, consider, and work with women to promote health.

Jo Ann Rosenfeld, M.D. Bristol, Tennessee

# **Acknowledgments**

To my parents for their support and belief, and to my colleagues and residents for their tolerance and help.

## **Contributors**

#### Abby Goulder Abelson, M.D.

Assistant Clinical Professor of Medicine Division of Rheumatology Case Western Reserve University School of Medicine University Hospitals of Cleveland Cleveland, Ohio

#### Louise S. Acheson, M.D., M.S.

Associate Professor of Family Medicine Case Western Reserve University School of Medicine University Hospitals of Cleveland Cleveland, Ohio

#### Beth A. Alexander, M.D., M.S.

Professor of Family Practice Michigan State University, College of Human Medicine East Lansing, Michigan

#### Nancy Alley, RN.C., F.N.P., Ph.D.

Associate Professor of Family and Community Nursing Associate Dean
East Tennessee State University, College
of Nursing
Johnson City, Tennessee

#### Janice Anderson, M.D.

Curriculum Forbes Family Practice Residency Program Forbes Health System Pittsburgh, Pennsylvania

Coordinator, Obstetrics and Gynecology

#### Kathryn M. Andolsek, M.D., M.P.H.

Clinical Professor of Community and Family Medicine Program Director, Family Medicine Residency Program Duke University Medical Center Durham, North Carolina

#### Kay A. Bauman, M.D., M.P.H., A.B.F.P.

Associate Professor of Family Practice University of Hawaii, John A. Burns School of Medicine Honolulu, Hawaii

#### Diane K. Beebe, M.D.

Associate Professor and Residency Director Department of Family Medicine Lakeland Family Medicine Teaching Center University of Mississippi Medical Center Jackson, Mississippi

#### Kathleen L.B. Beine, M.D.

Clinical Assistant Professor of Family Medicine East Tennessee State University

James H. Quillen College of Medicine
Johnson City, Tennessee

#### Reid B. Blackwelder, M.D.

Assistant Professor of Family Medicine East Tennessee State University James H. Quillen College of Medicine Kingsport, Tennessee

#### Ann J. Brown, M.D.

Assistant Professor of Medicine Duke University Medical Center Durham, North Carolina

#### Carol M. Buchter, M.D.

Assistant Professor of Medicine
Division of Cardiology
Case Western Reserve University School
of Medicine
Director, Heart Failure Evaluation and
Treatment Program
University Hospitals of Cleveland

#### Sandra K. Burge, Ph.D.

Cleveland, Ohio

Associate Professor of Family Practice University of Texas Health Science Center San Antonio, Texas

#### Rima J. Couzi, M.D., M.H.S.

Senior Clinical Fellow in Oncology The Johns Hopkins Oncology Center The Johns Hopkins University School of Medicine Baltimore, Maryland

#### Bickley Craven, M.D.

Assistant Professor of Family Medicine East Tennessee State University James H. Quillen College of Medicine Kingsport, Tennessee

#### Nancy E. Davidson, M.D.

Associate Professor of Oncology The Johns Hopkins Oncology Center The Johns Hopkins University School of Medicine Baltimore, Maryland

#### Joann Falkenburg, M.D.

Instructor in Family Practice Bristol Family Practice Center East Tennessee State University James H. Quillen College of Medicine Bristol, Tennessee

#### Linda Frazier, M.D., M.P.H.

Associate Professor of Community and Family Medicine Duke University Medical Center Durham, North Carolina

#### Valerie J. Gilchrist, M.D.

Professor of Family Medicine
Northeastern Ohio University College
of Medicine
Rootstown, Ohio
Associate Director, Family Practice
Center
Aultman Hospital
Canton, Ohio

#### Karen L. Hall, M.D.

Associate Professor and Director of Residency Training
Department of Community Health and
Family Medicine

University of Florida College of Medicine Gainesville, Florida

#### Diane M. Harper, M.D., M.P.H.

Associate Professor of Community and Family Medicine University of Missouri Kansas City School of Medicine Kansas City, Missouri

#### Deborah G. Haynes, M.D.

Clinical Assistant Professor of Family and Community Medicine University of Kansas School of Medicine, Wichita Wichita, Kansas

#### Marybeth Hendricks-Matthews, Ph.D.

Associate Professor of Preventive Medicine and Community Health Virginia Commonwealth University Medical College of Virginia Richmond, Virginia Associate Clinical Professor of Family Medicine University of Virginia, School of Medicine

#### Laurie L. Hornberger, M.D., F.A.A.P.

Assistant Professor of Pediatrics University of Missouri, Kansas City School of Medicine Section of Adolescent Medicine Children's Mercy Hospital Kansas City, Missouri

#### William J. Hueston, M.D.

Charlottesville, Virginia

Assistant Professor of Family Medicine University of Wisconsin Medical School Madison, Wisconsin

#### Thomas J. Johnson, Ph.D.

Assistant Professor of Psychology Indiana State University, School of Arts and Sciences Terre Haute, Indiana

#### Rick D. Kellerman, M.D.

Associate Professor of Family and
Community Medicine
University of Kansas School of Medicine,
Wichita
Wichita, Kansas
Director, Smoky Hill Family Practice
Residency Program
Salina, Kansas

#### Tina M. Kenyon, M.S.W., A.C.S.W.

Community Education Initiative
Coordinator
New Hampshire-Dartmouth Family
Practice Residency
Dartmouth Medical School
Hanover, New Hampshire
Concord Hospital
Concord, New Hampshire

#### Mitchell S. King, M.D.

Director, Family Practice Residency Program St. Francis Hospital of Evanston Evanston, Illinois

#### Jean L. Kristeller, Ph.D.

Associate Professor of Psychology Indiana State University, School of Arts and Sciences Terre Haute, Indiana

#### Diane J. Madlon-Kay, M.D.

Clinical Assistant Professor of Family and Community Medicine University of Minnesota Medical School St. Paul Ramsey Medical Center St. Paul, Minnesota

#### Gail S. Marion, PA-C

Assistant Professor of Family and Community Medicine Wake Forest University, Bowman Gray School of Medicine Winston-Salem, North Carolina

#### Joy Melnikow, M.D., M.P.H.

Assistant Professor of Family Practice University of California, Davis, School of Medicine

Sacramento, California

#### Lisa Nadler, M.D.

Assistant Clinical Professor of Community and Family Medicine Associate Residency Director Duke University Medical Center Durham, North Carolina

#### Hilde Lindemann Nelson, M.D.

Director, Center for Applied and Professional Ethics University of Tennessee, College of Arts and Sciences

Knoxville, Tennessee

#### Robert E. Nesse, M.D.

Associate Professor of Family Medicine Mayo Medical School Vice Chairman, Department of Family Medicine Mayo Clinic Rochester, Minnesota

#### Patsy Parker, M.D.

Clinical Associate Professor of Family Practice University of Minnesota Medical School Medical Director, Women's Health Care Associates Minneapolis, Minnesota

#### Zelda L. Powers, M.Ed.

Social Worker and Licensed Professional Counselor Department of Family Medicine Bristol Family Practice Center East Tennessee State University James H. Quillen College of Medicine Bristol, Tennessee

#### Jerilynn C. Prior, M.D., F.R.C.P.C.

Professor of Medicine Division of Endocrinology University of British Columbia Vancouver Hospital and Health Sciences Centre

Vancouver, British Columbia, Canada

#### Kara J. Quan, M.D.

Fellow in Cardiology Department of Internal Medicine Case Western Reserve University School of Medicine University Hospitals of Cleveland Cleveland, Ohio

#### Jo Ann Rosenfeld, M.D.

Associate Professor of Family Practice Bristol Family Practice Center East Tennessee State University, James H. Quillen College of Medicine Bristol, Tennessee

#### Miriam B. Rosenthal, M.D.

Associate Professor of Psychiatry and Reproductive Biology Case Western Reserve University School of Medicine Director of Behavioral Medicine in Obstetrics and Gynecology University MacDonald Women's Hospital Cleveland, Ohio

#### Mary Elizabeth Roth, M.D., M.S.A

Chairman, Departments of Family Medicine Providence Hospital and Medical Centers Southfield, Michigan McPherson Hospital Howell, Michigan Saline Community Hospital St. Joseph's Mercy Hospital Ann Arbor, Michigan

#### Ellen L. Sakornbut, M.D.

Associate Professor of Family Medicine University of Tennessee, Memphis, College of Medicine Memphis, Tennessee

#### Leslie A. Shimp, Pharm.D., M.S.

Assistant Professor of Pharmacy in Family Practice University of Michigan Medical School Associate Professor of Pharmacy University of Michigan, College of Pharmacy Ann Arbor, Michigan

# Katherine Wilson Smith, M.D., F.A.A.P., F.S.A.M.

Associate Professor of Pediatrics
Section of Adolescent Medicine
Children's Mercy Hospital
Assistant Dean, Emeritus
Consultant to Dean for Special Programs
University of Missouri, Kansas City School
of Medicine
Kansas City, Missouri

#### Mindy Smith, M.D., M.S.

Associate Professor of Family Practice Michigan State University, College of Human Medicine East Lansing, Michigan

#### Elizabeth Stifel, M.D.

Forbes Family Practice Residency Program Forbes Health System Pittsburgh, Pennsylvania

#### Marla Tobin, M.D.

Practicing Family Physician
Family Practice Associates of West Central
Missouri
Higginsville, Missouri

#### Valerie K. Ulstad, M.D., F.A.C.C.

Assistant Professor of Medicine Cardiovascular Division University of Minnesota Medical School Minneapolis, Minnesota Director, Coronary Care Unit Department of Cardiology St. Paul Ramsey Medical Center St. Paul, Minnesota

#### Mary E. Verdon, M.D.

Assistant Clinical Professor of Family and Community Medicine University of California, San Francisco, School of Medicine San Francisco, California

# **Table of Contents**

Section I Introduction	1
Cultural Values Affecting Women's Place in Medical Care     Hilde Lindemann Nelson	3
2. Women in the United States Health Care System Louise S. Acheson	9
Section II Adolescence	19
3. Psychosocial Development of Girls and Women Valerie J. Gilchrist	21
4. Rewards of Caring for and the Health Promotion of the Woman Adolescent Katherine Smith, Laurie Hornberger	29
5. Adolescent Sexuality, Contraception, and Pregnancy Reid B. Blackwelder	51
Appendix A: Adolescence—Special Considerations for the Nurse Practitioners and Physician Assistants	69

Section III Adulthood	73
6. Health Promotion	
6.1 Preventive Health Care Diane J. Madlon-Kay	75
6.2 Smoking Effects and Cessation  Jean L. Kristeller, Thomas J. Johnson	93
6.3 Occupational Health  Linda M. Frazier	117
6.4 Sports Medicine Lisa Nadler	143
6.5 Nutrition Considerations Jo Ann Rosenfeld	159
7. Psychosocial Issues of Adult Women Tina M. Kenyon	165
8. Psychiatric Problems	
8.1 Depression and Anxiety  Karen L. Hall	183
8.2 Eating Disorders  Kathryn M. Andolsek	205
8.3 Addictive Behaviors  Diane Beebe	227
9. Violence	
9.1 Partner Violence Sandra K. Burge	241
9.2 Rape Zelda L. Powers, Jo Ann Rosenfeld	257
9.3 Long-Term Consequences of Childhood Sexual Abuse Marybeth Hendricks-Matthews	267
10. Sexuality	
10.1 Women's Sexuality: A Paradigm Shift Beth A. Alexander	277
10.2 Contraception Elizabeth N. Stifel, Janice Anderson	289
10.3 Postcoital Contraception and Abortion  Jo Ann Rosenfeld	315

		Contents	xix
	10.4 Caring for the Pregnant Woman and Planning for the De Louise S. Acheson	elivery	331
	10.5 Infertility Miriam B. Rosenthal		351
	10.6 Caring for the Adoptive Mother  Jo Ann Rosenfeld		363
	10.7 Lesbian Health Issues Bickley Craven		369
11.	. Venereal Infections		
	11.1 Sexually Transmitted Diseases  Marla Tobin		383
	11.2 Women and AIDS  Kay A. Bauman		399
12.	. Gynecological Problems		
	12.1 Menometrorrhagia and Causes of Abnormal Premenopau Vaginal Bleeding Robert E. Nesse	ısal	421
	12.2 Ovulatory Disturbances and Amenorrhea: A Physiologic to Diagnosis and Therapy  Jerilynn C. Prior	Approach	437
	12.3 Cervical Cancer and Screening Diane M. Harper		453
	12.4 Endometrial Cancer Jo Ann Rosenfeld		473
	12.5 Ovarian Cancer Rick D. Kellerman		479
	12.6 Vaginitis Deborah G. Haynes		491
	12.7 Dyspareunia and Pelvic Pain Patsy Parker, Jo Ann Rosenfeld		503
13.	Cardiovascular Disease		
	13.1 Risks and Prevention of Arteriosclerotic Heart Disease Valerie K. Ulstad		515
	13.2 Hypertension and Stroke Jo Ann Rosenfeld, Joann Falkenburg		533
	13.3 Venous Diseases Mitchell S. King		541

XX	Contents	
	13.4 Congestive Heart Failure and Valvular Disease	551
	Carol M. Buchter, Kara J. Quan	
14.	Respiratory Disease Mary E. Verdon	569
15.	Endocrine Disease	
	15.1 Diabetes—Prevention, Treatment, and Follow-up Ann J. Brown	597
	15.2 Thyroid Disease William J. Hueston	617
16.	Gastrointestinal Problems Including Colon Cancer Jo Ann Rosenfeld	663
17.	The Breast	
	17.1 Lactation  Joy Melnikow	661
	17.2 Nipple Discharge Jo Ann Rosenfeld	677
	17.3 Breast Cancer and Prevention Rima J. Couzi, Nancy E. Davidson	683
18.	Urological Diseases	
	18.1 Urinary Tract Infection Kathleen L. B. Beine	703
	18.2 Urinary Incontinence Jo Ann Rosenfeld	727
Sec	ction IV Perimenopausal Years	737
19.	Preventive Health Care Ellen L. Sakornbut	739
20.	Estrogen Replacement Therapy Mindy Smith, Leslie A. Shimp	763
21.	Menopause Jo Ann Rosenfeld	787
Sec	ction V Older Women	799
22.	Preventive Health Care and Medical Problems of Older Women Gail S. Marion	801