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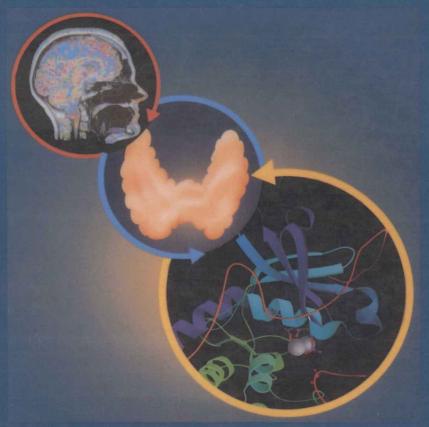


MANUAL (英文原版) Manual of Endocrinology and Metabolism

Third Edition 配 英 汉 索 引

内分渺学和代谢手册

Edited by Norman Lavin



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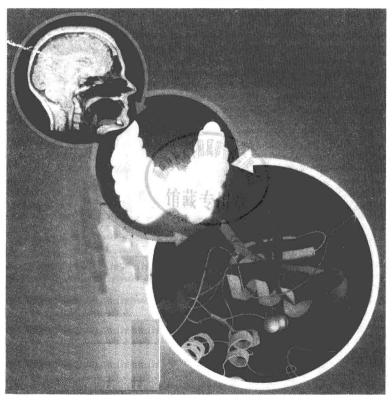


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图书在版编目(CIP)数据

内分泌学和代谢手册 = Manual of Endocrinology and Metabolism/(美)拉文(Lavin,N.)编著.-影印本.-天津:天津科技翻译出版公司,2003.1

(SPIRAL[®] MANUAL 系列丛书)

ISBN 7-5433-1614-5

I.内... [I.拉... □.①内分泌学-手册-英文 ②代谢病-手册-英文 IV.R58-62

中国版本图书馆 CIP 数据核字(2002)第 073096 号

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授权单位: Lippincott Williams & Wilkins Inc.

出 版:天津科技翻译出版公司

出版人:邢淑琴

地 址: 天津市南开区白堤路 244 号

邮政编码: 300192

电 话: 022-87893561 传 真: 022-87892476

E = mail: tsttbc@public.tpt.tj.cn **印** 刷: 山东新华印刷厂临沂厂

发 行: 全国新华书店

版本记录: 900×1168 32 开本 27 印张 820 千字

2003年1月第1版 2003年1月第1次印刷

定价:68.00元

(如发现印装问题,可与出版社调换)

Manual of Endocrinology and Metabolism Third Edition

Editor

Norman Lavin, M.D., F.A.A.P., F.A.C.E.

Clinical Professor of Endocrinology and Pediatrics University of California, Los Angeles School of Medicine Los Angeles;

Director of Diabetes Care Center Director of Medical Education Encino-Tarzana Regional Medical Center Tarzana, California



Acquisitions Editor: Brian Brown
Developmental Editor: Barbara Felton
Production Editor: Emmeline Parker
Manufacturing Manager: Timothy Reynolds

Cover Designer: Patricia Gast Compositor: TechBooks Printer: Vicks Lithograph

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Printed in the USA

Library of Congress Cataloging-in-Publication Data

Manual of endocrinology and metabolism / editor, Norman Lavin.—3rd ed.

p.; cm.

Includes bibliographical references and index.

ISBN 0-7817-2014-1

1. Endocrinology—Handbooks, manuals, etc. 2. Endocrine glands—Diseases—Handbooks, manuals, etc. 3. Metabolism—Disorders—Handbooks, manuals, etc. I. Lavin, Norman.

[DNLM: 1. Endocrinolgy—Handbooks. 2. Metabolism—Handbooks. WK 39 M294 2002]

RC648 .M365 2002

AC048 .W303 20

616.4—dc21

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2002017859

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Some drugs and medical devices presented in this publication have Food and Drug Administration (FDA) clearance for limited use in restricted research settings. It is the responsibility of the health care provider to ascertain the FDA status of each drug or device planned for use in their clinical practice.

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This book is dedicated to:

My wonderful parents, Lena and Meyer Lavin, and my brother Sheldon—all of whom look from above. I miss you profoundly.

My sons, Arye and Jonah—who charged at the world with full intensity—projecting voices that are robust, witty, elegant, unexpected, and never, ever boring. They serve as silhouettes against the horizon, resonating wisdom while announcing a triumph of body and soul. From them, I have learned a life of loving and a love of life, and to them, I wish continued happiness and dreams fulfilled. I love both of you dearly.

My wife, Michele—the moral center of our family—who lifts our hearts because of her great intellectual and emotional knowledge and inexhaustible hope and spiritual wholeness. Her respect for life in all its forms is both gracious and soothing, while her vivid sensuousness and poignant beauty give me a feeling of unbounded exhilarating possibility. To you, I give endless and infinite love.

-N.L.

CONTRIBUTING AUTHORS

Anthony Bae, M.D.

Fellow, Department of Endocrinology, Harbor–University of California, Los Angeles School of Medicine, Torrance, California

Shalender Bhasin, M.D.

Professor, Department of Internal Medicine, Charles R. Drew University; Chief, Division of Endocrinology, Metabolism, and Molecular Medicine, King Drew Medical Center, Los Angeles, California

Avrum Bluming, M.D., M.A.C.P.

Clinical Professor, Department of Medicine, University of Southern California, Los Angeles, California

George A. Bray, M.D., M.A.C.P., M.A.C.E.

Professor, Department of Medicine, Pennington Center/LSU, Baton Rouge, Louisiana

Arnold S. Brickman, M.D.

Professor of Medicine, Department of Medicine, University of California, Los Angeles, Los Angeles, California

Stuart J. Brink, M.D.

Associate Clinical Professor of Pediatrics, Tufts University School of Medicine, Boston; Senior Endocrinologist, New England Diabetes and Endocrinology Center, Waltham, Massachusetts

Harold E. Carlson, M.D.

Professor of Medicine and Head, Division of Endocrinology, Department of Medicine, Stony Brook University; Attending Physician, Department of Medicine, University Hospital—Stony Brook, Stony Brook, New York

Stephen D. Cederbaum, M.D.

Professor and Chief, Division of Genetics, Department of Pediatrics and Psychiatry; Attending Pediatrician, University of California, Los Angeles Medical Center. Los Angeles, California

M. Artnur Charles, M.D., Ph.D.

Professor Emeritus, University of California, Irvine, Irvine; Medical Director, Diabetes Research Center, Tustin, California

William W. Chin, M.D.

Professor of Medicine, Harvard Medical School, Boston, Massachusetts; Vice President, Gene Regulation, Bone and Inflammation Research, Eli Lilly and Company, Indianapolis, Indiana

Orlo H. Clark, M.D.

Professor and Vice Chair, Department of Surgery, University of California, San Francisco; Chief, Department of Surgery, University of California, San Francisco/ Mt. Zion Medical Center, San Francisco, California

Ana Maria Comaru-Schally, M.D., F.A.C.P.

Professor of Medicine, Department of Medicine, Tulane University School of Medicine; Director, Hutchinson Endocrine Clinic-Tulane University School of Medicine; Consultant in Endocrinology, The Veterans Affairs Medical Center, New Orleans, Louisiana

Alfred M. Dashe, M.D.

Clínical Professor, Department of Medicine–Endocrinology, University of California, Los Angeles School of Medicine, Los Angeles; Consultant, Department of Medicine—Endocrinology, Ventura Hospital and Clinic, Ventura, California

Mayer B. Davidson, M.D.

Professor of Medicine, Department of Medicine, University of California, Los Angeles School of Medicine; Director, Clinical Trials Unit, Department of Internal Medicine, Charles R. Drew University, Los Angeles, California

Alan H. DeCherney, M.D.

Professor and Chair, Department of Obstetrics and Gynecology, University of California, Los Angeles, Los Angeles, California

Richard A. Dickey, M.D.

Instructor, Department of Internal Medicine (Endocrinology), Wake Forest University School of Medicine, Winston-Salem, North Carolina

Steven Edelman, M.D.

Professor, Department of Medicine, University of California, San Diego; Staff, Division of Endocrinology, University of San Diego Veterans Affairs Medical Center, San Diego, California

George S. Eisenbarth, M.D., Ph.D.

Director, Barbara Davis Center, University of Colorado, Denver, Colorado

Calvin Ezrin, M.D., F.A.C.P.

Clinical Professor, Department of Medicine, University of California, Los Angeles; Attending Physician, Department of Medicine, Encino-Tarzana Medical Center, Tarzana, California

Rena Ellen Falk, M.D.

Professor, Department of Pediatrics, University of California, Los Angeles School of Medicine; Medical Director, Cytogenetics Laboratory, Steven Spielberg Pediatric Research Center, Cedars-Sinai Medical Center, Los Angeles, California

Benjamin Fass, M.D.

Assistant Clinical Professor of Pediatrics, Department of Pediatrics, University of California, Los Angeles School of Medicine; Staff Pediatrician/Pediatric Endocrinologist, Department of Pediatrics, Southern California Permanente Medical Group, Los Angeles, California

Laurence Gavin, M.D.

Clinical Professor, Department of Medicine, University of California, San Francisco, San Francisco, California

Mitchell E. Geffner, M.D.

Professor, Department of Pediatrics, University of Southern California School of Medicine; Director of Fellowship Training, Department of Pediatric Endocrinology, Children's Hospital of Los Angeles, Los Angeles, California

Joseph M. Gertner, M.D., M.R.C.P.

Vice President, Department of Clinical Development, Serono, Incorporated, Rockland; Attending Physician, Department of Medicine, Children's Hospital, Boston, Massachusetts

James R. Givens M.D. Atlanta, Georgia

Dennis Griffin, M.D. Retired

Wayne W. Grody, M.D., Ph.D.

Professor, Department of Pathology and Laboratory Medicine, University of California, Los Angeles: Director, Diagnostic Molecular Pathology Laboratory. University of California Medical Center, Los Angeles, California

Theodore J. Hahn, M.D.

Director, Geriatric Research Education and Clinical Center; Chief, Division of Geriatric Medicine, Veterans Affairs West Los Angeles Healthcare Center; Professor, University of California, Los Angeles, Los Angeles, California

Jerome M. Hershman, M.D.

Professor, Department of Medicine, University of California, Los Angeles School of Medicine; Chief, Division of Endocrinology and Metabolism, Department of Medicine, Veterans Affairs Greater Los Angeles Healthcare System, Los Angeles, California

Raymond L. Hintz, M.D.

Professor, Department of Pediatrics, Stanford University, Stanford, California

Stanley H. Hsia, M.D., F.R.C.P.C.

Assistant Professor, Department of Medicine, Charles R. Drew University of Medicine and Science; Attending Physician, Division of Endocrinology and Metabolism, Department of Medicine, King/Drew Medical Center, Los Angeles, California

Dennis D. Kim. M.D.

Assistant Clinical Professor, Department of Medicine, University of California, San Diego; Faculty Staff, Department of Medicine / Endocrinology and Metabolism, University of California, San Diego VA, San Diego, California

John L. Kitzmiller, M.D.

Medical Director, Regional Diabetes and Pregnancy Program, Good Samaritan Hospital, San Jose, California

Stephen LaFranchi, M.D.

Professor, Department of Pediatrics, Oregon Health and Sciences University, Doernbecher Children's Hospital, Portland, Oregon

Norman Lavin, M.D., F.A.A.P., F.A.C.E.

Clinical Professor of Endocrinology and Pediatrics, University of California, Los Angeles School of Medicine, Los Angeles; Director of Diabetes Care Center, Director of Medical Education, Encino-Tarzana Regional Medical Center, Tarzana, California

Peter A. Lee, M.D., Ph.D.

Professor, Department of Pediatrics, Pennsylvania State University; Chief, Division of Pediatric Endocrinology, Milton S. Hershey Medical Center, Hershey, Pennsylvania

Lenore S. Levine, M.D.

Professor. Department of Pediatrics, Columbia University College of Physicians and Surgeons; Director, Division of Pediatric Endocrinology, Department of Pediatrics, Children's Hospital of New York-Presbyterian, New York, New York

Louis C. K. Low, B.Sc., M.B.Ch.B., F.R.C.P., F.R.C.P.C.H., F.H.K.A.M. Professor, Department of Pediatrics, The University of Hong Kong, Queen Mary Hospital, Hong Kong, SAR

Anne W. Lucky, M.D.

Volunteer Professor, Department of Dermatology, University of Cincinnati College of Medicine, Cincinnati, Ohio

Aristides K. Maniatis, M.D.

Resident, Department of Pediatrics, Children's Hospital of Denver, Denver, Colorado

Jorge H. Mestman, M.D.

Professor of Obstetrics and Gynecology, Department of Medicine, University of Southern California, Keck School of Medicine, Los Angeles, California

John E. Morley, M.B., B.Ch.

Dammert Professor of Gerontology, Department of Internal Medicine, St. Louis University Health Sciences Center; Director, Division of Geriatric Medicine, Geriatric Research, Education, and Clinical Centers, St. Louis University Hospital and St. Louis Veterans Affairs Medical Center, St. Louis, Missouri

Jon Nakamoto, M.D., Ph.D.

Assistant Professor, Department of Pediatrics, Mattel Children's Hospital at the University of California, Los Angeles, Los Angeles, California

Maria I. New, M.D.

Professor and Chair, Department of Pediatrics, Weill Medical College of Cornell University; Chief, Division of Pediatric Endocrinology, The New York Hospital, New York, New York

Gerald M. Reaven, M.D.

Professor, Department of Medicine, Stanford University School of Medicine, FALK—LURC, Stanford University School of Medicine, Stanford, California

Linea L. Rydstedt, M.D.

Associate Professor, Department of Endocrinology and Metabolism, Wayne State University, Detroit, Michigan

Andrew V. Schally, M.D., Ph.D., M.D.h.c., D.Sc.h.c.

Professor of Medicine, Head, Section of Experimental Medicine, Department of Medicine, Tulane University School of Medicine; Chief, Endocrine, Polypeptide and Cancer Institute, The Veterans Affairs Medical Center, New Orleans, Louisiana

Peter A. Singer, M.D.

Professor of Clinical Medicine, Department of Medicine, University of Southern California, Los Angeles, California

Jay S. Skyler, M.D.

Professor of Medicine, Pediatrics and Psychology and Director, Division of Endocrinology, Diabetes and Metabolism, University of Miami School of Medicine, Miami, Florida

James R. Sowers, M.D., F.A.C.P.

Professor of Medicine and Cell Biology, Director, Endocrinology, Diabetes and Hypertension, State University of New York Health Science Center at Brooklyn, Brooklyn, New York

Kurt M. Sowers, B.S.

State University of New York Health Science Center at Brooklyn, Brooklyn, New York

Richard F. Spark, M.D., F.A.C.E.

Associate Professor, Department of Clinical Medicine, Harvard Medical School; Senior Attending Physician, Beth Israel Deaconess Medical Center, Boston. Massachusetts

Phyllis W. Speiser, M.D.

Professor of Clinical Pediatrics, Department of Pediatrics, New York University School of Medicine, New York; Director of Pediatric Endocrinology, Department of Pediatrics, Schneider Children's Hospital of North Shore Long Island Jewish Hospital, New Hyde Park, New York

Mark A. Sperling, M.D.

Professor of Pediatrics and Chair Emeritus, Department of Pediatrics, University of Pittsburgh School of Medicine; Professor, Department of Pediatric Endocrinology, Children's Hospital of Pittsburgh, Pittsburgh, Pennsylvania

Naftali Stern, M.D.

Professor of Medicine, Sackler Faculty of Medicine, Tel Aviv University; Director, Institute of Endocrinology, Metabolism, and Hypertension, Tel Aviv—Sourasky Medical Center, Tel Aviv, Israel

Ronald S. Swerdloff, M.D.

Professor, Department of Medicine, University of California School of Medicine, Los Angeles; Chief, Division of Endocrinology, Harbor–University of California, Los Angeles Medical Center, Torrance, California

Michael L. Tuck, M.D.

Professor, Department of Medicine, University of California, Los Angeles; Veterans Affairs Medical Center, Sepulveda, California

Andre J. Van Herle, M.D.

Professor, Department of Medicine, University of California, Los Angeles Center for Health Sciences, Los Angeles, California

Wilfred M. Victorina, M.D.

Previous Fellow, Division of Endocrinology, Wayne State University, Detroit Medical Center, Detroit, Michigan; Private Practice, Appalachia Health Services, Williamsburg, Kentucky

Eric Vilain, M.D., Ph.D.

Assistant Professor, Department of Human Genetics, University of California, Los Angeles School of Medicine; Assistant Professor, Department of Pediatrics, University of California, Los Angeles Children's Hospital, Los Angeles, California

Christina Wang, M.D.

Professor, Department of Medicine, University of California, Los Angeles School of Medicine; Program Director, General Clinical Research Center, Harbor–University of California, Los Angeles Medical Center, Torrance, California

David Weinstein, M.D.

Instructor in Pediatrics, Harvard Medical School; Assistant in Endocrinology, Children's Hospital Boston, Boston, Massachusetts

Thomas A. Wilson, M.D.

Associate Professor, Department of Pediatrics, State University of New York; Chief, Department of Pediatrics, University Hospital, Stony Brook, New York

Selma F. Witchel, M.D.

Associate Professor, Department of Pediatrics, Children's Hospital of Pittsburgh, University of Pittsburgh, Pennsylvania

Joseph I. Wolfsdorf, M.B., B.Ch.

Chief, Charles A. Janeway Medical Firm; Senior Associate in Medicine, Children's Hospital Boston; Associate Professor of Pediatrics, Harvard Medical School, Boston, Massachusetts

Sing-Yung Wu, M.D., Ph.D.

Professor, Departments of Radiological Sciences and Medicine, University of California, Irvine, Orange; Staff Physician and Investigator, Diagnostic Imaging and Endocrine Services, Veterans Affairs Healthcare System. Long Beach, California

Haipeng Xiao, M.D., Ph.D.

Associate Professor, Department of Endocrinology, Sun Yat-sen University; Associate Professor, Department of Endocrinology, First Affiliated Hospital, Sun-Yat-sen University, Guangzhou PR, China

PREFACE

The third edition of the *Manual of Endocrinology and Metabolism* continues the tradition of presenting the most advanced clinical developments in the field of endocrinology. We emphasize evaluation, management, and treatment as well as pathophysiology in a simplified but fairly complete text. Whereas most endocrine books are limited in scope, we focus on the infant and child as well as the adult, allowing the reader selection of relevant chapters as needed for his or her specialty.

The manual details the diagnostic workup for most endocrine disorders while highlighting practical approaches to management and therapeutic options. It blends an array of endocrinologists who present their clinical views in a lucid style, minimizing verbiage and frequent reference to esoteric research. This edition integrates minimal but relevant pathophysiology with practical protocols and outlines for evaluation and

treatment.

The target audience is anyone who interacts clinically with an endocrine patient, including board-certified endocrinologists, diabetologists, fellows, house officers, medical students, and nurses. I have retained most of the chapters from previous editions, with a focus on new concepts and treatment programs, including Syndrome X (insulinresistant syndrome), type 2 diabetes in children, new drugs for both type 1 and type 2 diabetes mellitus, and the latest theories relative to the development of atherogenesis. Because of the close relationship between insulin and heart disease, a new discipline may emerge—namely, endocardiology.

To keep the book streamlined but up-to-date, I have by necessity deleted some chapters while adding some new areas of interest. All other chapters have been rewritten and updated and include selected references. For easy access to information, I have again divided the book into ten parts, arranging closely related subjects into clusters. Part I describes some of the basic sciences of endocrine practice, focusing on hormoneresistant states, genetics, and molecular biology. A new chapter on the molecular endocrine laboratory is also included. Disorders of the hypothalamus and pituitary glands are described in Part II, with a new look at the utilization of growth hormone in children as well as adults. Part III encompasses problems of the adrenal gland, focusing on diagnostic evaluation and clearly outlined treatments. The new molecular basis for understanding congenital adrenal hyperplasia is highlighted. For clearer comprehension, separate chapters on pheochromocytoma and neuroblastoma are included. With the recent major interest in reproductive endocrinology, Part IV addresses the interrelationship of the hormones of the hypothalamus, pituitary, and ovary or testes, from which has evolved a newer approach to diagnosis and therapy of reproductive disorders. Part V encompasses the latest understanding of calcium metabolism, emphasizing immediate as well as long-term treatment.

Thyroid conditions, covered in part VI, are divided into several chapters—from the newborn to the elderly—for easy reference. A separate chapter on thyroid function tests enables the reader to select the appropriate diagnostic method simply and often economically. Part VII incorporates metabolic disorders with an update on hypoglycemia in children and adults, and a major focus on the pathogenesis of atherosclerosis expressed in chapters on obesity and dyslipidemia. I have retained a brief overview of the more common inborn errors of metabolism in Part VIII, with two chapters pro-

viding a stepwise method of evaluating these rare disorders.

With the emerging epidemic of type 2 diabetes mellitus in adults and especially children, Part IX contains several chapters that address the etiology and newer approaches to management. Gerald Reaven, who first described this entity in the late 1980s, authors a chapter on Syndrome X. A separate section on Syndrome X in children attempts to link this entity in early childhood to a risk factor for eventual atherogenesis in adulthood. Part X presents special topics in endocrinology, including new chapters on pregnancy and aging, as well as the latest research on hormone-dependent cancers authored by Nobel Laureate Andrew Schally. Protocols for common stimulation and suppression tests are found in Appendix A.

Thus, the *Manual of Endocrinology and Metabolism* reflects the latest diagnostic and therapeutic approaches, written by an array of endocrinologists who represent Nobel laureates, scholars, researchers, and clinicians. Their lucid styles enable the reader to quickly glean pertinent information to aid in enhanced patient care, which is essentially the ultimate goal of the manual.

N.L.

ACKNOWLEDGMENT

In preparing the third edition, I thank my colleagues—all of whom are great friends—for their support, expert opinions, criticism, contributions, and guidance. They include Dr. Ben Fass, Dr. Bernard Cohen, and Dr. Al Sils. For superb technical support, I thank Leya Booth and Susan Pines. I am grateful for the exemplary contributions of our distinguished authors.

I thank Barbara Felton and the publishers at Lippincott Williams & Wilkins for

their expert guidance throughout this challenging project.

Finally, I thank Miya, my Siberian husky, who is celebrating her tenth birthday and is, I believe, extremely happy to see me finally complete this project.

N.L.

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