Get Full Access and More at

ExpertConsult.com

Ferri's 5 Books in



Website access EBM Evidence-Based Diagnosis

Diseases and Disorders

Differential Diagnosis

Clinical Algorithms

Laboratory Tests and Interpretation of Results

Clinical Practice Guidelines

2015

Ferri's CLINICAL ADVISOR ADVISOR 5 Books in 1

FRED F. FERRI, M.D., F.A.C.P.

Clinical Professor Alpert Medical School Brown University Providence, Rhode Island



1600 John F. Kennedy Blvd. Ste 1800 Philadelphia, PA 19103-2899

FERRI'S CLINICAL ADVISOR 2015: 5 BOOKS IN 1
Copyright © 2015, 2014 by Mosby, an imprint of Elsevier Inc.
Copyright © 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000, 1999 by Mosby, an affiliate of Elsevier Inc.

ISBN: 978-0-323-08375-1 ISSN: 1541-4515

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or any information storage and retrieval system, without permission in writing from the publisher. Details on how to seek permission, further information about the Publisher's permissions policies and our arrangements with organizations such as the Copyright Clearance Center and the Copyright Licensing Agency, can be found at our website: www.elsevier.com/permissions.

This book and the individual contributions contained in it are protected under copyright by the Publisher (other than as may be noted herein).

Notices

Knowledge and best practice in this field are constantly changing. As new research and experience broaden our understanding, changes in research methods, professional practices, or medical treatment may become necessary. Practitioners and researchers must always rely on their own experience and knowledge in evaluating and using any information, methods, compounds, or experiments described herein. In using such information or methods they should be mindful of their own safety and the safety of others, including parties for whom they have a professional responsibility.

With respect to any drug or pharmaceutical products identified, readers are advised to check the most current information provided (i) on procedures featured or (ii) by the manufacturer of each product to be administered, to verify the recommended dose or formula, the method and duration of administration, and contraindications. It is the responsibility of practitioners, relying on their own experience and knowledge of their patients, to make diagnoses, to determine dosages and the best treatment for each individual patient, and to take all appropriate safety precautions.

To the fullest extent of the law, neither the Publisher nor the authors, contributors, or editors, assume any liability for any injury and/or damage to persons or property as a matter of products liability, negligence or otherwise, or from any use or operation of any methods, products, instructions, or ideas contained in the material herein.

ISBN: 978-0-323-08375-1 ISSN: 1541-4515

Senior Content Strategist: Suzanne Toppy Content Development Specialist: Lauren Boyle Publishing Services Manager: Patricia Tannian Project Manager: Kate Mannix

Design Direction: Steven Stave





Section Editors



RUBEN ALVERO, M.D.
Director
Assisted Reproductive Technologies
Division Director REI
Vice Chairman for Education
Department of Obstetrics and
Gynecology
University of Colorado Denver
Aurora, Colorado
SECTION I



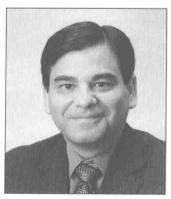
RICHARD J. GOLDBERG, M.D., M.S. Psychiatrist-in-Chief Rhode Island Hospital and the Miriam Hospital Professor Department of Psychiatry and Human Behavior Alpert Medical School Brown University Providence, Rhode Island SECTION I



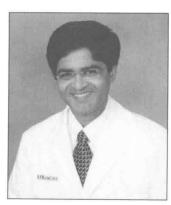
FRED F. FERRI, M.D., F.A.C.P. Clinical Professor Alpert Medical School Brown University Providence, Rhode Island SECTION I



HARALD ALEXANDER
HALL, M.D.
Director
Rheumatology Fellowship Program
Roger Williams Medical Center
Providence, Rhode Island
Assistant Professor of Medicine
Boston University School of
Medicine
Boston, Massachusetts
SECTION I



GLENN G. FORT, M.D., M.P.H., F.A.C.P., F.I.D.S.A. Clinical Associate Professor of Medicine Alpert Medical School Brown University Providence, Rhode Island Chief Infectious Diseases Our Lady of Fatima Hospital North Providence, Rhode Island SECTION I



SACHIN KEDAR, M.B.B.S., M.D. Assistant Professor of Neurology and Ophthalmology Director, Neurology Residency Program Director, Neuro-ophthalmology Service University of Kentucky College of Medicine Lexington, Kentucky SECTION I



GAGAN D. SAHNI, M.D., F.A.C.C., F.A.C.P. Associate Professor Cardiovascular Institute Mount Sinai Hospital Center New York, New York SECTION I



IRIS L. TONG, M.D.
Director, Women's Primary Care
Women's Medicine Collaborative
Assistant Professor
Department of Medicine
Alpert Medical School
Brown University
Providence, Rhode Island
SECTION I



STEVEN M. SEPE, M.D., Ph.D. Chairman Department of Medicine Roger Williams Medical Center Clinical Professor of Medicine Assistant Dean Boston University School of Medicine Providence, Rhode Island

Contributors

SONYA S. ABDEL-RAZEQ, M.D.

Clinical Assistant Instructor
Department of Obstetrics and Gynecology/Resident Education
State University of New York at Buffalo
Women's and Children's Hospital
Buffalo, New York

TONY ABDO, M.D.

Internal Medicine Resident Roger Williams Medical Center Boston University School of Medicine Providence, Rhode Island

ABDULRAHMAN ABDULBAKI, M.D.

Fellow, Cardiology Louisiana State University and Health Science Center Shreveport, Louisiana

SADDAM SALEH ABISSE, M.D.

Cardiovascular Fellow Warren Alpert Medical School Brown University Rhode Island Hospital Providence, Rhode Island

CATHLEEN ADAMS, M.D.

Department of Psychiatry Rhode Island Hospital Providence, Rhode Island

WAFFIYAH AFRIDI, M.D.

Fellow, Rheumatology Rhode Island Hospital Alpert Medical School Brown University Providence, Rhode Island

MEGHA AGARWAL, M.D.

Cardiology Fellow Department of Medicine University of California, Irvine Orange, California

TANYA ALI, M.D.

Clinical Assistant Professor of Medicine Department of Medicine Alpert Medical School Brown University Providence, Rhode Island

PHILIP J. ALIOTTA, M.D., M.S.H.A., F.A.C.S.

Clinical Instructor
Department of Urology
School of Medicine and Biomedical Sciences
State University of New York at Buffalo
Buffalo, New York
Medical Director
Center for Urologic Research of Western New York
Williamsville, New York

RUBEN ALVERO, M.D.

Professor, Obstetrics and Gynecology Director, Assisted Reproductive Technologies Section Head, Reproductive Endocrinology and Infertility Vice Chair for Education University of Colorado Denver Aurora, Colorado

SRIVIDYA ANANDAN, M.D.

Attending Physician Internal Medicine Harvard Vanguard Medical Associates Quincy, Massachusetts

MEL L. ANDERSON, M.D., F.A.C.P.

Assistant Professor of Medicine University of Colorado School of Medicine Denver Veterans Affairs Medical Center Denver, Colorado

THOMAS J.T. ANDERSON, M.D.

Intern, Internal Medicine
Boston University School of Medicine
Boston, Massachusetts
Roger Williams Medical Center
Providence, Rhode Island
Resident, Diagnostic Radiology
Beth Israel Deaconess Medical Center
Harvard Medical School
Boston, Massachusetts

LAURA M. ANDOLINA, M.S., C.G.C.

Clinical Instructor of Pediatrics State University of New York at Buffalo School of Medicine and Biomedical Sciences Buffalo, New York

KATHRYN TAYLOR ANILOWSKI, M.S., P.T., C.L.T.-L.A.N.A., A.B.D. CANDIDATE

Physical Therapist Kinder Touch Lymphedema Center Saratoga Springs, New York

ANNGENE G. ANTHONY, M.D., M.P.H., F.A.A.F.P.

Attending Physician Family Medicine Morrison Memorial Hospital Morristown, New Jersey

MICHELLE S. ANVAR, M.D.

Assistant Professor of Medicine General Internal Medicine The Warren Alpert Medical School of Brown University Rhode Island Hospital Providence, Rhode Island

ETSUKO AOKI, M.D., Ph.D.

Assistant Professor Department of Leukemia/General Internal Medicine The University of Texas M.D. Anderson Cancer Center Houston, Texas

GRAYSON ARMSTRONG, B.A.

Medical Student
The Warren Alpert Medical School of Brown University
Providence, Rhode Island
MPH Candidate
Health Care Management and Policy
Harvard School of Public Health
Boston, Massachusetts

RABIA ARSHAD, M.D.

Attending Cardiologist Cardiology Mercy Medical Center Canton, Ohio

WISSAM S.Z. ASFAHANI, M.D.

Department of Neurosurgery University of Kentucky Lexington, Kentucky

MOHAMMAD ASHKIANI, M.D.

PGY-2 Internal Medicine Resident
The Warren Alpert Medical School of Brown University
Providence, Rhode Island
Memorial Hospital of Rhode Island
Pawtucket, Rhode Island

DANIEL K. ASIEDU, M.D., Ph.D., F.A.C.P.

Clinical Instructor of Medicine Alpert Medical School Brown University Staff Physician Coastal Medical, Inc. Providence, Rhode Island

SUDEEP KAUR AULAKH, M.D., C.M., F.R.C.P.C.

Director of Ambulatory Education, Baystate Internal Medicine Residency
Co-Director, Baystate Primary Care Residency
Baystate Medical Center
Springfield, Massachusetts
Medical Director, Physician Assistant Program
Bay Path College
Longmeadow, Massachusetts
Assistant Professor of Medicine
Tufts University School of Medicine

CRISOSTOMO R. BALIOG Jr., M.D.

Assistant Professor Department of Internal Medicine University of South Alabama College of Medicine Mobile, Alabama

PRIYA BANSAL, M.D., M.P.H.

Physician Internal Medicine Miriam Hospital/Rhode Island Hospital Providence, Rhode Island

LUKE BARRÉ, M.D.

Boston, Massachusetts

Instructor, Department of Medicine Boston University School of Medicine Medical Resident Department of Medicine Roger Williams Medical Center Providence, Rhode Island

ROWLAND P. BARRETT, Ph.D.

Associate Professor of Psychiatry & Human Behavior Alpert Medical School Brown University Providence, Rhode Island

KERRI BATRA, M.D.

Assistant Professor of Medicine
The Warren Alpert Medical School of Brown University
Rheumatologist
Women's Medicine Collaborative
Miriam Hospital
Providence, Rhode Island
Rheumatologist
Milford Regional Medical Center
Milford, Massachusetts

OMRI BERGER, M.D.

Fellow, Psychiatry and the Law Program Department of Psychiatry University of California, San Francisco San Francisco. California

ARNALDO A. BERGES, M.D.

Rhode Island Hospital
Assistant Clinical Professor
Department of Psychiatry and Human Behavior
Alpert Medical School
Brown University
Providence, Rhode Island

VICKY BHAGAT

PGY-1 Internal Medicine Boston University Boston, Massachusetts Roger Williams Medical Center Providence, Rhode Island

RAHUL BHARDWAJ, M.D.

Cardiology Fellow Department of Medicine University of California, Irvine Orange, California

RACHAEL M. BIANCUZZO, M.S.I.V.

Medical Student, M.S.I.V.
Department of Medicine
University of New England College of Osteopathic Medicine
Biddeford, Maine
Medical Student, M.S.I.V.
Department of Internal Medicine
Roger Williams Medical Center
Providence, Rhode Island

COURTNEY CLARK BILODEAU, M.D.

Assistant Clinical Professor
Department of Medicine
The Warren Alpert Medical School of Brown University
Attending Physician
Department of Medicine
Miriam Hospital
Providence, Rhode Island

KENNETH D. BISHOP, M.D., PH.D.

Fellow Division of Hematology/Oncology Brown University Providence, Rhode Island

MICHAEL BLUNDIN, M.D.

Pulmonary and Critical Care Rhode Island Hospital Providence. Rhode Island

SHEENAGH M. BODKIN, M.D.

Women's Primary Care Women's Medicine Collaborative Providence, Rhode Island

NIRALI BORA, M.D.

Assistant Clinical Instructor of Family Medicine Alpert Medical School Brown University Providence, Rhode Island Memorial Hospital of Rhode Island Pawtucket, Rhode Island

JEFFREY M. BORKAN, M.D., Ph.D.

Professor and Chair Department of Family Medicine Memorial Hospital of Rhode Island Pawtucket, Rhode Island Alpert Medical School Brown University Providence, Rhode Island

ALEXANDRA BOSKE, M.D.

Director of Inpatient Neurology Stroke Program Director Saint David's Round Rock Medical Center Round Rock, Texas

LYNN BOWLBY, M.D., F.A.C.P.

Medical Director
Duke Outpatient Clinic (DOC)
Duke Internal Medicine Residency Program
Durham, North Carolina

MARK F. BRADY, M.D., M.P.H., M.M.S., D.T.M.&H.

Attending Physician Emergency Medicine Baptist Memorial Hospital Memphis, Tennessee

MANDEEP K. BRAR, M.D.

Clinical Assistant Professor Department of Obstetrics and Gynecology State University of New York at Buffalo Buffalo, New York

KEITH BRENNAN, M.D.

Doctor, Internal Medicine Boston University Boston, Massachusetts Roger Williams Medical Center Providence, Rhode Island

ELIZABETH J. BROWN, M.D.

Assistant Clinical Instructor of Family Medicine Memorial Hospital of Rhode Island Pawtucket, Rhode Island Alpert Medical School Brown University Providence, Rhode Island

GAVIN BROWN, M.D.

General Neurologist Laureate Medical Group at Northside Hospital Atlanta, Georgia

JENNIFER BUCKLEY, M.D.

Clinical Assistant Professor of Family Medicine Memorial Hospital of Rhode Island Pawtucket, Rhode Island Brown University Providence, Rhode Island

JONATHAN BURNS, M.A., M.D.

Clinical Instructor in Ambulatory Care and Prevention Harvard Medical School Boston, Massachusetts Staff Physician Family Medicine Cambridge Health Alliance Cambridge, Massachusetts

D. BRANDON BURTIS, D.O.

Assistant Professor Department of Neurology College of Medicine University of Florida Gainesville, Florida

DOUGLAS BURTT, M.D.

Clinical Assistant Professor of Medicine Division of Cardiology Alpert Medical School Brown University Providence, Rhode Island

STEVEN BUSSELEN, M.D.

Medical Director Tri-Town Health Center Johnston, Rhode Island

ROBERT BUTLER, M.D.

Resident

The Warren Alpert School of Medicine of Brown University Providence, Rhode Island

CLAUDIA RODRIGUEZ CABRERA, M.D.

Internal Medicine Residency Program Director Hospital Regional Universitario de Jose Maria Cabral y Baez Clinical Parasitology, Department of Medicine Universidad Tecnológica de Santiago Santiago, Dominican Republic

ANDREW CARAGANIS, M.D.

PGY-2 Internal Medicine Roger Williams Medical Center Providence, Rhode Island

CAROLINA S. CEREZO, M.D., F.A.A.P.

Department of Pediatrics Rhode Island Hospital Assistant Professor of Pediatrics The Warren Alpert Medical School of Brown University Providence, Rhode Island

JOSHUA CHALKLEY, M.S., D.O.

Department of Neurology University of Kentucky Medical Center Lexington, Kentucky viii

PHILIP A. CHAN, M.D., M.S.

Infectious Disease Medicine Miriam Immunology Clinic The Miriam Hospital Providence, Rhode Island

SAURAV CHATTERJEE, M.D.

Fellow, Preventive Cardiology Providence VA Medical Center Alpert Medical School Brown University Providence, Rhode Island

SUNIT-PREET CHAUDHRY, M.D.

Department of Cardiology Rhode Island Hospital Brown University Providence, Rhode Island

VICKY CHENG, M.D.

Assistant Professor of Medicine (Clinical)
The Warren Alpert Medical School of Brown University
Providence, Rhode Island

SARAH L. CHISHOLM, M.D.

Resident Physician Department of Obstetrics and Gynecology University of Colorado Hospital Denver, Colorado

NEELESH LALJI CHUDASAMA, M.D.

Postdoctoral Clinical Fellow Division of Cardiology, Department of Internal Medicine New York Presbyterian Hospital Columbia University Medical Center New York, New York

JONATHAN P. CLARKE, M.D.

Department of Internal Medicine Roger Williams Medical Center Providence, Rhode Island

LISA COHEN, PHARM.D.

Associate Professor of Pharmacy Department of Pharmacy Practice University of Rhode Island Kingston, Rhode Island Research Pharmacist Veterans Affairs Medical Center Providence, Rhode Island

KAILA COMPTON, M.D., PH.D.

Attending Psychiatrist Alta Bates/Herrick Hospital, Berkeley, California

JESSICA CORWIN, M.D., M.P.H.

The Permanente Medical Group Northern California

BRIAN J. COWLES, PHARM.D.

Assistant Professor of Pharmacy Department of Pharmacy Practice, Albany College of Pharmacy and Health Sciences Colchester, Vermont

DAN A. CRISTESCU, M.D.

Arthritis Associates and Osteoporosis Center of Colorado Springs Colorado Springs, Colorado

PATRICIA CRISTOFARO, M.D.

Assistant Professor of Medicine Alpert Medical School Brown University Physician Providence VA Medical Center Providence, Rhode Island

JOANNE SZCYGIEL CUNHA, M.D.

Fellow, Department of Rheumatology
The Warren Alpert School of Medicine of Brown University
Providence, Rhode Island

STEPHANIE A. CURRY, M.D.

Department of Internal Medicine Roger Williams Medical Center, Boston University School of Medicine Boston, Massachusetts

ALICIA J. CURTIN, Ph.D., G.N.P.

Assistant Professor Division of Geriatrics Alpert Medical School Brown University Providence, Rhode Island

CATHERINE D'AVANZATO, M.S.

Psychology Fellow Rhode Island Hospital Department of Psychiatry and Human Behavior The Warren Alpert School of Medicine of Brown University Providence, Rhode Island

ALI DAHHAN, M.D.

Staff Physician
Department of Internal Medicine
Carver College of Medicine
University of Iowa
Iowa City, Iowa

KRISTY L. DALRYMPLE, Ph.D.

Assistant Professor (Research) Alpert Medical School Brown University Staff Psychologist Rhode Island Hospital Providence, Rhode Island

GEORGE T. DANAKAS, M.D., F.A.C.O.G.

Clinical Assistant Professor Department of Obstetrics and Gynecology State University of New York at Buffalo Buffalo, New York

ALEXANDRA DEGENHARDT, M.D., M.M.S.

Director Multiple Sclerosis Center Pen Bay Medical Center Rockport, Maine

JOSEPH A. DIAZ, M.D., M.P.H.

Associate Professor of Medicine
Department of Medicine
Alpert Medical School
Brown University
Providence, Rhode Island
Department of Medicine
Memorial Hospital of Rhode Island
Pawtucket, Rhode Island

MICHAEL R. DOBBS, M.D.

Associate Professor of Neurology Vice-Chair for Clinical Operations Medical Director Stroke Care Chandler Medical Center University of Kentucky Lexington, Kentucky

NATHALIA DOOBAY, D.P.M.

Department of Podiatric Surgery Roger Williams Medical Center Providence, Rhode Island

AMANDA C. DORAN, M.D., Ph.D.

Cardiology Fellow
Department of Medicine, Division of Cardiology
Columbia University
New York Presbyterian Hospital
New York, New York

WILLIAM F. DOTSON II, M.D.

Neurophysiology Fellow Department of Neurology Medical University of South Carolina Charleston, South Carolina

ANDREW DUKER, M.D.

Assistant Professor of Neurology and Rehabilitation Medicine University of Cincinnati Cincinnati, Ohio

STUART J. EISENDRATH, M.D.

Professor of Clinical Psychiatry Director of the UCSF Depression Center University of California, San Francisco San Francisco, California

CHRISTINE EISENHOWER, PHARM.D.

Clinical Assistant Professor
Pharmacy Practice
University of Rhode Island College of Pharmacy
Kingston, Rhode Island
Clinical Pharmacist
PACE Organization of Rhode Island
Providence, Rhode Island

PAMELA ELLSWORTH, M.D.

Professor of Urology Chief of Pediatric Urology Department of Urology UMass Memorial Medical Center Worchester, Massachusetts

MICHAEL ENGELS, M.D.

Internal Medicine Resident Warren Alpert Medical School Brown University Rhode Island Hospital Providence, Rhode Island

PATRICIO SEBASTIAN ESPINOSA, M.D., M.P.H.

Visiting Associate Professor of Neurology Department of Neurology Universidad San Francisco de Quito Quito, Ecuador Division Director Neurology North Oaks Neuroscience Institute Hammond, Louisiana

VALERIA FABRE, M.D.

Infectious Disease Fellow Department of Infectious Diseases Johns Hopkins University Baltimore, Maryland

MARK J. FAGAN, M.D.

Director
Medical Primary Care Unit
Rhode Island Hospital
Professor of Medicine
Alpert Medical School
Brown University
Providence, Rhode Island

LIORA FARBER, M.D.

Department of Internal Medicine Roger Williams Medical Center Providence, Rhode Island

TIMOTHY W. FARRELL, M.D.

Assistant Professor of Medicine (Clinical)
Division of Geriatrics
Adjunct Assistant Professor of Family Medicine
Department of Family & Preventive Medicine
University of Utah School of Medicine
Salt Lake City, Utah

FRED F. FERRI, M.D., F.A.C.P.

Clinical Professor Alpert Medical School Brown University Providence, Rhode Island

HEATHER FERRI, D.O.

Medical Resident
Department of Medicine
The Warren Alpert Medical School of Brown University
Rhode Island Hospital
Providence, Rhode Island

ANTONELLA FINE, M.D.

Resident, Internal Medicine The Warren Alpert Medical School of Brown University Rhode Island Hospital Providence, Rhode Island

BARRY FINE, M.D., PH.D.

Fellow in Cardiovascular Medicine Department of Cardiology Columbia University Clinical Fellow Department of Medicine New York Presbyterian Hospital New York, New York

GLEN FINNEY, M.D.

Assistant Professor Department of Neurology College of Medicine University of Florida Gainesville, Florida

STACI A. FISCHER, M.D., F.A.C.P., F.I.D.S.A.

Associate Professor of Medicine
Division of Infectious Diseases
Alpert Medical School
Brown University
Director, Transplant Infectious Diseases
Transplant Services and Medicine
Rhode Island Hospital
Providence, Rhode Island

TAMARA G. FONG, M.D., PH.D.

Assistant Professor of Neurology Harvard Medical School, Staff Neurologist Beth Israel Deaconess Medical Center Assistant Scientist, Aging Brain Center Institute for Aging Research, Hebrew SeniorLife Boston, Massachusetts

AMBER N. FONTENOT FERRISS, M.D.

Anschutz Medical Campus University of Colorado Denver Denver, Colorado

MICHELLE FORCIER, M.D., M.P.H.

Associate Professor of Pediatrics Division of Adolescent Medicine Alpert Medical School Brown University Providence, Rhode Island

FRANK G. FORT, M.D., F.A.C.S., R.Ph.S.

Medical Director Capital Region Vein Centre Schenectady, New York

GLENN G. FORT, M.D., M.P.H., F.A.C.P., F.I.D.S.A.

Clinical Associate Professor of Medicine Alpert Medical School Brown University Providence, Rhode Island Chief Infectious Diseases Our Lady of Fatima Hospital North Providence, Rhode Island

DAVID J. FORTUNATO, M.D., F.A.C.C.

Clinical Associate Professor of Medicine Alpert Medical School Brown University Cardiology Section Providence VA Medical Center Providence, Rhode Island

KYLE FRANCO, PHARM.D. CANDIDATE

Student Pharmacist College of Pharmacy University of Rhode Island Kingston, Rhode Island

JUSTIN F. FRASER, M.D.

Assistant Professor of Cerebrovascular, Endovascular, and Skull Base Surgery Department of Neurological Surgery University of Kentucky Lexington, Kentucky

SAINATH GADDAM, M.D.

Fellow, Preventive Cardiology Providence VA Medical Center, Alpert Medical School Brown University, Providence, Rhode Island

ANTHONY GALLO, M.D.

Assistant Clinical Professor of Psychiatry Alpert Medical School Brown University Providence, Rhode Island

MARINA GARAS, B.S., OMS-III

College of Osteopathic Medicine
University of New England
Biddeford, Maine
Department of Internal Medicine
Roger Williams Medical Center
Boston University School of Medicine
Providence, Rhode Island

LEANNA R. GARBUS, OMS-II

University of New England College of Osteopathic Medicine Biddeford, Maine

PAUL F. GEORGE, M.D.

Assistant Professor of Family Medicine Alpert Medical School Brown University Providence, Rhode Island

JOYDEEP GHOSH, M.D., F.A.C.C.

Assistant Professor of Medicine Columbia Presbyterian Medical Center New York, New York

CINDY GLEIT, M.D.

Assistant Clinical Instructor Department of Family Medicine Alpert Medical School Brown University Providence, Rhode Island

RICHARD J. GOLDBERG, M.D., M.S.

Psychiatrist-in-Chief Rhode Island Hospital and The Miriam Hospital Professor Department of Psychiatry and Human Behavior Alpert Medical School Brown University Providence, Rhode Island

ALLA GOLDBURT, M.D.

Resident, Family Medicine Memorial Hospital of Rhode Island Pawtucket, Rhode Island

GEETHA GOPALAKRISHNAN, M.D.

Associate Professor of Medicine Alpert Medical School Brown University Providence, Rhode Island

PAUL GORDON, M.D.

Clinical Assistant Professor of Medicine Division of Cardiology Alpert Medical School Brown University Providence, Rhode Island

NANCY R. GRAFF, M.D.

Professor of Pediatrics University of California, San Diego San Diego, California

JOHN A. GRAY, M.D., Ph.D.

Assistant Professor Department of Neurology Center for Neuroscience University of California, Davis Davis, California

ELLIOTT M. GROVES, M.D., M.Eng.

Cardiology Fellow Department of Medicine University of California, Irvine Orange, California

STEPHEN L. GRUPKE, M.D., M.S.

Resident Department of Neurological Surgery University of Kentucky Lexington, Kentucky

PATAN GULTAWATVICHAI, M.D.

Department of Internal Medicine Roger Williams Medical Center Providence, Rhode Island

PRIYA SARIN GUPTA, M.D., M.P.H.

Fellow, Adolescent Medicine Division of General Pediatrics and Adolescent Medicine Johns Hopkins Hospital Baltimore, Maryland

NAWAZ HACK, M.D.

Doctor of Neurology Adjunct Postclinical Doctoral Fellow in Movement Disorders University of Florida Gainesville, Florida

HARALD A. HALL, M.D.

Assistant Professor of Medicine
Boston University School of Medicine
Director, Rheumatology Fellowship Program
Roger Williams Medical Center
Rheumatology Section Chief
Providence VA Medical Center
Providence, Rhode Island

LEO HAN, M.D.

Resident, Obstetrics and Gynecology University of Colorado Aurora, Colorado

SAJEEV HANDA, M.D., S.F.H.M.

Director
Division of Hospital Medicine
Rhode Island Hospital
Clinical Assistant Professor of Medicine
Alpert Medical School
Brown University
Providence, Rhode Island

ERICA J. HARDY, M.D., M.M.S.

Assistant Professor of Medicine (Clinical)
The Warren Alpert School of Medicine of Brown University
Attending Physician
Department of Infectious Diseases and Obstetric Medicine
Women & Infant's Hospital
Providence, Rhode Island

TAYLOR HARRISON, M.D.

Assistant Professor of Neurology Department of Neurology Emory University Atlanta, Georgia

DON HAYES, Jr., M.D., M.S.

Associate Professor
Departments of Pediatrics and Internal Medicine
The Ohio State University
Section of Pulmonary Medicine
Nationwide Children's Hospital
Division of Pulmonary, Allergy, Critical Care, and Sleep Medicine
The Ohio State University Wexner Medical Center
Columbus. Ohio

R. SCOTT HOFFMAN, M.D.

Assistant Clinical Professor Ophthalmology and Visual Sciences University of Louisville Physician, Ophthalmologist Doctors Eye Institute Louisville, Kentucky

DAWN HOGAN, M.D.

Clinical Assistant Professor of Family Medicine Alpert Medical School, Brown University Providence, Rhode Island

N. WILSON HOLLAND, M.D., F.A.C.P., A.G.S.F.

Associate Professor of Medicine Division of Geriatrics and Gerontology Emory University School of Medicine Acting Designated Learning Officer Atlanta Veterans Administration Medical Center Atlanta, Georgia

SUSIE L. HU, M.D.

Assistant Professor of Medicine Division of Renal Diseases Department of Internal Medicine Alpert Medical School Brown University Rhode Island Hospital Providence, Rhode Island

ANNE L. HUME, PHARM.D.

Professor of Pharmacy
Department of Pharmacy Practice,
University of Rhode Island
College of Pharmacy
Kingston, Rhode Island,
Adjunct Professor of Family Medicine
Memorial Hospital of Rhode Island
Pawtucket, Rhode Island

SHARLISA WALLER HUTSON, M.D.

T.C. Thompson Children's Hospital Elranger Hospital Chattanooga, Tennessee

RICHARD S. ISAACSON, M.D.

Associate Professor of Clinical Neurology Vice-Chair of Education Miller School of Medicine University of Miami Miami, Florida

AHMAD M. ISMAIL, M.D.

Academic Hospitalist
Memorial Hospital of Rhode Island
Pawtucket, Rhode Island
Assistant Program Director
Internal Medicine Residency Program
Alpert Medical School
Brown University
Providence, Rhode Island

JENNIFER JANTZ, M.D.

Brown Cardiology Fellow Rhode Island Hospital Brown University Providence, Rhode Island

NOEL S.C. JAVIER, M.D.

Clinical Assistant Professor of Medicine and Pediatrics Alpert Medical School Brown University Providence, Rhode Island

JENNIFER JEREMIAH, M.D.

Clinical Associate Professor of Medicine Alpert Medical School Brown University Providence, Rhode Island

MICHAEL P. JOHNSON, M.D.

Staff Physician
Division of General Internal Medicine
Rhode Island Hospital
Assistant Professor of Medicine
Brown University
Providence, Rhode Island

KIMBERLY JONES, M.D.

Associate Professor of Child Neurology Department of Neurology University of Kentucky Lexington, Kentucky

LUCY KALANITHI, M.D.

Postdoctoral Fellow Stanford Clinical Excellence Research Center Stanford University School of Medicine Stanford, California

SIDDHARTH KAPOOR, M.D.

Assistant Professor of Neurology Director, Headache Medicine Program Director, Fellowship in Headache Medicine Department of Neurology University of Kentucky College of Medicine Lexington, Kentucky

CLAIRE KASSAKIAN, M.D.

Fellow
Department of Nephrology and Hypertension
Alpert Medical School of Brown University
Providence, Rhode Island

EMILY R. KATZ, M.D.

Director
Child & Adolescent Psychiatry Consultation-Liaison Service
Hasbro Children's Hospital
Rhode Island Hospital
Assistant Professor (Clinical) of Psychiatry and Human Behavior
Alpert Medical School
Brown University
Providence, Rhode Island

ALI KAZIM, M.D.

Clinical Associate Professor Department of Psychiatry David Geffen School of Medicine at UCLA Los Angeles, California Associate Chief of Mental Health Sepulveda Veterans Administration Ambulatory Health Care Sepulveda, California

SACHIN KEDAR, M.B.B.S., M.D.

Assistant Professor of Neurology and Ophthalmology Director, Neurology Residency Program Director, Neuro-ophthalmology Service University of Kentucky College of Medicine Lexington, Kentucky

BROOKE E. KEELEY, D.P.M.

Podiatric Surgeon
Department of Surgery
Newport Hospital
Newport, Rhode Island
South County Hospital
Wakefield, Rhode Island
The Miriam Hospital
PMS-3 Surgical Resident Training
Roger Williams Medical Center
Providence, Rhode Island

BEVIN KENNEY, M.D.

Instructor in Medicine Harvard Medical School Internist Department of Medicine Brigham and Women's Hospital Boston, Massachusetts

BYUNG KIM, M.D.

Internal Medicine Chief Resident Roger Williams Medical Center Boston University School of Medicine Boston, Massachusetts

JIN KYUNG KIM, M.D., PH.D., F.A.C.C.

Assistant Professor of Medicine Department of Medicine University of California, Irvine Orange, California

WAN J. KIM, M.D.

Department of Obstetrics and Gynecology Kaiser Permanente Hayward Medical Center Hayward, California

ROBERT M. KIRCHNER, M.D.

Fellow, Cardiology Division of Cardiology Alpert Medical School **Brown University** Providence, Rhode Island

MELVYN KOBY, M.D.

Associate Clinical Professor of Medicine Department of Ophthalmology University of Louisville School of Medicine Louisville, Kentucky

ROBERT KOHN, M.D.

Professor Department of Psychiatry and Human Behavior The Warren Alpert School of Medicine **Brown University** Providence, Rhode Island

ARAVIND RAO KOKKIRALA, M.D.

Cardiology Staff Providence VA Medical Center Providence, Rhode Island

KRISTINA KRAMER, M.D.

Medical Director Intensive Care Unit John Muir Medical Center Walnut Creek, California

PRASHANTH KRISHNAMOHAN, M.B.B.S., M.D.

Resident Physician Department of Neurology University of Kentucky Lexington, Kentucky

DEEPA KUMARAIAH, M.D., M.B.A.

Clinical Cardiology Fellow Department of Cardiology Columbia University Medical Center New York, New York

DAVID I. KURSS, M.D., F.A.C.O.G.

Clinical Assistant Professor Department of Obstetrics and Gynecology. State University of New York at Buffalo Buffalo, New York Medical Director Women's Wellness Center of Western New York Williamsville, New York

CINDY LAI, M.D.

Associate Professor of Clinical Medicine Intersessions Course Director Site Director Medicine Clerkships University of California, San Francisco San Francisco, California

EDWARD V. LALLY, M.D.

Director Division of Rheumatology Rhode Island Hospital Professor of Medicine Department of Rheumatology **Brown University** Providence, Rhode Island

SYDE RIZWAN LATIF, M.D.

Clinical Fellow Department of Medicine Division of Cardiovascular Medicine University of California, Davis, Medical Center Sacramento, California

QUANG P. LE, M.D., M.P.H.

Department of Same Day Services Tufts University School of Medicine St. Vincent Hospital Medical Director Le & Chang Family Urgent Care Worcester, Massachusetts

KACHIU LEE, B.A.

Clinical Fellow in Dermatology and Laser Medicine Department of Dermatology Massachusetts General Hospital Harvard Medical School Boston, Massachusetts

ANDRE LEVCHENKO, Ph.D.

Professor of Biomedical Engineering Johns Hopkins University Baltimore, Maryland

DONITA DILLON LIGHTNER, M.D.

Assistant Professor of Pediatric Neurology Department of Neurology, University of Kentucky Lexington, Kentucky

RICHARD LONG, M.D.

Providence, Rhode Island

Associate Professor of Family Medicine Director of Maternal and Child Health Department of Family Medicine Boston University School of Medicine Department of Family Medicine **Boston Medical Center** Boston, Massachusetts

ELIZABETH A. LOWENHAUPT, M.D., F.A.A.P.

Associate Training Director Child Psychiatry Fellowship & Triple Board Residency Director, Medical Student Education in Child & Adolescent Psychiatry Director of Psychiatric Services, Rhode Island Training School Clinical Assistant Professor, Department of Psychiatry and Human Behavior Rhode Island Hospital Brown University,

AMY L. LUNDHOLM, M.D.

Fellow

Department of Rheumatology Roger Williams Medical Center Providence, Rhode Island

SUSANNA R. MAGEE, M.D., M.P.H.

Assistant Professor
Department of Family Medicine
Alpert Medical School
Brown University
Providence, Rhode Island
Director of Maternal and Child Health
Memorial Hospital of Rhode Island
Pawtucket, Rhode Island

MICHAEL MAHER, M.D.

Assistant Professor of Internal Medicine Brown University School of Medicine Rhode Island Hospital Providence, Rhode Island

MARTA MAJCZAK, M.D.

Child and Adolescent Psychiatrist
Bradley Hospital
Clinical Assistant Professor of Psychiatry and Human Behavior
Brown University
Providence, Rhode Island

MONZR M. AL MALKI, M.D.

Instructor
Department of Hematology and Hematopoietic Cell Transplantation
City of Hope National Medical Center
Duarte, California

ATIZAZUL H. MANSOOR, M.D., F.A.C.C.

Department of Cardiovascular Diseases Pinnacle Health Cardiovascular Institute Pinnacle Hospitals Harrisburg, Pennsylvania

MICHAEL A. MARSH, M.D.

Chief Medical Resident Internal Medicine Roger Williams Medical Center Providence, Rhode Island

ELISABETH B. MATSON, D.O.

Rheumatologist Exeter, New Hampshire

KATE MAVRICH, M.D.

Assistant Professor (Clinical) Department of Medicine Alpert Medical School Brown University Providence, Rhode Island

LAUREN MAY, M.D.

Resident in Obstetrics and Gynecology, Department of Obstetrics and Gynecology University of Colorado Aurora, Colorado

ALISON C. MAY, M.D.

Department of Psychiatry VA Medical Center, Clinical Instructor University of California, San Francisco, San Francisco, California

MAITREYI MAZUMDAR, M.D., M.P.H., M.Sc.

Assistant Professor of Neurology Harvard Medical School Staff Physician Department of Neurology Boston's Children's Hospital Assistant Professor Department of Environmental Health Harvard School of Public Health Boston, Massachusetts

NADINE MBUYI, M.D.

Resident Physician
Department of Internal Medicine
Boston University School of Medicine
Boston, Massachusetts
Roger Williams Medical Center
Providence, Rhode Island

RUSSELL J. MCCULLOH, M.D.

Assistant Professor Department of Pediatric Infectious Diseases Children's Mercy Hospitals and Clinics University of Missouri-Kansas City Kansas City, Missouri University of Kansas School of Medicine Kansas City, Kansas

KELLY A. MCGARRY, M.D.

Program Director General Internal Medicine Residency Program Rhode Island Hospital Associate Professor of Medicine Alpert Medical School Brown University Providence, Rhode Island

LYNN MCNICOLL, M.D., F.R.C.P.C.

Assistant Professor of Medicine (Clinical)
Alpert Medical School
Brown University
Geriatrician
Division of Geriatrics
Rhode Island Hospital
Providence, Rhode Island

ERIN MEDLIN, M.D.

Clinical Instructor, Gynecologic Oncology Department of Obstetrics and Gynecology University of Wisconsin School of Medicine and Public Health Madison, Wisconsin

AKANKSHA MEHTA, M.D.

Senior Associate in Urology Emory University School of Medicine Atlanta, Georgia

DANIEL E. MENDEZ-ALLWOOD, M.D.

Rheumatologist Salem, Oregon

ALVARO MENENDEZ, M.D.

Internal Medicine Resident Physician Department of Internal Medicine Roger Williams Medical Center Providence, Rhode Island

LONNIE R. MERCIER, M.D.

Clinical Instructor Department of Orthopedic Surgery, Creighton University School of Medicine Omaha, Nebraska

VEERANNA MERLA, M.D.

Assistant Professor Department of Cardiology Columbia University Attending Medicine and Cardiology New York Presbyterian Hospital New York, New York

HASSAN MNHAS, M.D.

Child and Adolescent Psychiatry Fellow Rhode Island Hospital Brown University Providence, Rhode Island

NADEEM MOHAMMED, M.D.

PGY-1 Internal Medicine Roger Williams Medical Center **Boston University** Providence, Rhode Island

THERESA A. MORGAN, Ph.D., M.PHIL.

Resident in Clinical Psychology Alpert Medical School, Brown University Department of Psychiatry Rhode Island Hospital Providence, Rhode Island

NADIA MUJAHID, M.D.

Co-Director, Geriatric Fracture Program, Assistant Professor of Medicine (Clinical) The Warren Alpert Medical School of Brown University Geriatrician Division of Geriatric and Palliative Care Medicine Rhode Island Hospital Providence, Rhode Island

CATHERINE ELIAS NAJEM, M.D.

Resident, Internal Medicine Roger Williams Medical Center Clinical Research Assistant Rheumatology Department Boston University School of Medicine Providence, Rhode Island

BILAL H. NAQVI. M.D.

Hematologist/Oncologist Marshfield Clinic Regional Cancer Center Eau Claire, Wisconsin

UZMA NASIR, M.D.

Assistant Professor Department of Pain Management and Anesthesiology Stony Brook University Stony Brook, New York

JUDY NEE, M.D.

Fellow, Gastroenterology Alpert Medical School **Brown University** Providence, Rhode Island

TAKUMA NEMOTO, M.D.

Research Associate Professor of Surgery State University of New York at Buffalo Buffalo, New York

MELISSA NOTHNAGLE, M.D., M.Sc.

Director, Family Medicine Residency Associate Professor of Family Medicine The Warren Alpert Medical School of Brown University Providence, Rhode Island Residency Director Family Medicine Memorial Hospital of Rhode Island Pawtucket, Rhode Island

PATRICK NSEREKO, M.D.

Resident Boston University School of Medicine Boston, Massachusetts Resident, Internal Medicine Roger Williams Medical Center Providence, Rhode Island

GAIL M. O'BRIEN, M.D.

Alliance Internal Medicine Edgartown, Massachusetts

ALEXANDER B. OLAWAIYE, M.D.

Fellow Division of Gynecologic Oncology Vincent Department of Obstetrics, Gynecology and Reproductive Biology Massachusetts General Hospital Harvard Medical School Boston, Massachusetts

MICHAEL K. ONG, M.D., Ph.D.

Associate Professor in Residence UCLA Division of General Internal Medicine/Health Services Research David Geffen School of Medicine University of California, Los Angeles Greater Los Angeles VA Health Care System Los Angeles, California

STEVEN M. OPAL, M.D.

Professor of Medicine Infectious Disease Division Alpert Medical School Brown University, Providence, Rhode Island

LINDSAY M. ORCHOWSKI, PH.D.

Staff Psychologist Rhode Island Hospital Assistant Professor (Research) The Warren Alpert Medical School of Brown University Providence, Rhode Island

JOSEPH R. OWENS, M.D.

Georgetown Neurology Georgetown, Kentucky

AMAR OZA, M.D.

Resident, Internal Medicine **Brown University** Rhode Island Hospital Providence, Rhode Island

PAOLO G. PACE, M.A.Sc., M.D

Resident Physician Department of Internal Medicine Roger Williams Medical Center Providence, Rhode Island

CRISTINA ANTONIO PACHECO, M.D.

Clinical Assistant Professor Department of Family Medicine Alpert Medical School Brown University, Providence, Rhode Island

LISA PAPPAS-TAFFER, M.D.

Assistant Professor of Dermatology
The University of Pennsylvania
Perelman Center for Advanced Medicine & The Hospital
of the University of Pennsylvania
Veterans Affairs Hospital
Philadelphia, Pennsylvania

ALEEMA PATEL, M.D.

Medicine Preliminary Intern
Boston University
Boston, Massachusetts
Roger Williams Medical Center
Providence, Rhode Island
Resident Physician
Department of Radiology
The University of Texas Health Science Center at San Antonio
San Antonio, Texas

BIRJU B. PATEL, M.D., F.A.C.P.

Assistant Professor of Medicine
Department of Medicine
Division of Geriatrics and Gerontology
Emory University School of Medicine
Atlanta Veterans Affairs Medical Center
Director, Bronze Geriatric Outpatient Clinic
Co-Consultant Network Geriatrics and Extended Care
Atlanta, Georgia

HEMALI PATEL, M.D.

Assistant Clinical Professor Department of Medicine University of Colorado Boulder, Colorado

PRANAV M. PATEL, M.D., F.A.C.C., F.S.C.A.I.

Interim Chief of Cardiology Associate Professor of Medicine University of California, Irvine Irvine, California

ELENI PATROZOU, M.D.

Research Associate
Alpert Medical School
Brown University
Providence, Rhode Island
Attending Physician
Infectious Diseases Consultant
Hygeia General Hospital
Athens, Greece

ALISON PATTERSON, M.D.

Resident in Obstetrics and Gynecology Department of Obstetrics and Gynecology University of Colorado Aurora, Colorado

STEVEN PELIGIAN, D.O.

PRANITH PERERA, M.D.

Fellow
Department of Gastroenterology
The Warren Alpert School of Medicine of Brown University
Providence, Rhode Island

KIMBERLY PEREZ, M.D.

Assistant Professor
Attending Physician
Department of Medicine
Division of Hematology and Oncology
Alpert Medical School
Brown University
Providence, Rhode Island

KATHARINE A. PHILLIPS, M.D.

Director
Body Dysmorphic Disorder Program
Rhode Island Hospital
Professor of Psychiatry and Human Behavior
Alpert Medical School
Brown University
Providence, Rhode Island

PAUL A. PIRRAGLIA, M.D., M.P.H.

Assistant Professor of Medicine Alpert Medical School Brown University Rhode Island Hospital Providence, Rhode Island

WENDY A. PLANTE, Ph.D.

Clinical Assistant Professor of Psychiatry and Human Behavior Alpert Medical School Brown University Rhode Island Hospital Hasbro Children's Research Center Providence, Rhode Island

KEVIN PLUMLEY, M.D.

Resident, Internal Medicine Providence, Rhode Island

SHARON S. HARTMAN POLENSEK, M.D., Ph.D.

Assistant Professor of Neurology Center for Dizziness and Balance Disorders Emory University Atlanta, Georgia Chief Audiology and Speech Pathology Atlanta VA Medical Center Decatur, Georgia

SAMUEL H. POON, M.D.

Rheumatologist
Department of Internal Medicine
Harrington Memorial Hospital
Southbridge, Massachusetts

DONN POSNER, Ph.D., C.B.S.M.

Director, Clinical Behavioral Medicine
Sleep Disorders Center of Lifespan Hospitals
Clinical Associate Professor
Alpert Medical School
Brown University
Providence, Rhode Island

试读结束, 需要全本PDF请购买 www.ertongbook.com