睡眠医学理论与实践

Principles and Practice of Sleep Medicine

第 4 版

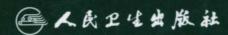
主 审 钟南山

主 译

张秀华 韩 芳 张 悦 王良兴

主 编

Meir H. Kryger ♦ Thomas Roth ♦ William C. Dement



睡眠医学

理论与实践

Principles and Practice of Sleep Medicine

第4版

主编 Meir H. Kryger Thomas Roth William C. Dement

主 审 钟南山

主译

张秀华 韩 芳 张 悦 王良兴



Principles and Practice of Sleep Medicine, 4 edition

Meir H. Kryger, Thomas Roth, PhD, William C. Dement, MD, PhD

ISBN-13: 978-0-7216-0797-9, ISBN-10: 0-7216-0797-7

Copyright @ 2005 by Elsevier Inc. All rights reserved.

Authorized Simplified Chinese translation from English language edition published by the Proprietor.

ISBN-13: 978-981-272-274-4, ISBN-10: 981-272-274-2

Copyright © 2010 by Elsevier (Singapore) Pte Ltd. All rights reserved.

Elsevier (Singapore) Pte Ltd.

3 Killiney Road

#08-01 Winsland House I

Singapore 239519

Tel: (65) 6349-0200

Fax: (65) 6733-1817

First Published 2010

2010 年初版

Printed in China by People's Medical Publishing House under special arrangement with Elsevier (Singapore) Pte Ltd. This edition is authorized for sale in China only, excluding Hong Kong SAR and Taiwan. Unauthorized export of this edition is a violation of the Copyright Act. Violation of this Law is subject to Civil and Criminal Penalties.

本书简体中文版由 Elsevier (Singapore) Pte Ltd. 授权人民卫生出版社在中国大陆独家发行。本版仅限在中国境内(不包括香港特别行政区及台湾省) 出版及标价销售。未经许可之出口,视为违反著作权法,将受法律之制裁。

图书在版编目 (CIP) 数据

睡眠医学——理论与实践/(美) Kryger 等主编; 张秀华等主译. —北京: 人民卫生出版社,2010.8 ISBN 978-7-117-13026-4

I.①睡··· Ⅱ.①K···②张··· Ⅲ.①睡眠-研究

IV. ①R338.63

中国版本图书馆 CIP 数据核字 (2010) 第 113067 号

门户网: www.pmph.com 出版物查询、网上书店

卫人网: www.ipmph.com 护士、医师、药师、中医

师、卫生资格考试培训

版权所有,侵权必究!

图字号: 01-2008-5520

睡眠医学——理论与实践

主 译: 张秀华 等

出版发行: 人民卫生出版社 (中继线 010-59780011)

地 址:北京市朝阳区潘家园南里 19 号

邮 编: 100021

E - mail: pmph @ pmph. com

购书热线: 010-67605754 010-65264830

010-59787586 010-59787592

印 刷:三河市富华印刷包装有限公司

经 销:新华书店

开 本: 889×1194 1/16 印张: 95.5 字数: 3083 千字

版 次: 2010 年 8 月第 1 版 2010 年 8 月第 1 版第 1 次印刷

标准书号: ISBN 978-7-117-13026-4/R • 13027

定 价: 298.00元

打击盗版举报电话: 010-59787491 E-mail: WQ @ pmph. com

(凡属印装质量问题请与本社销售中心联系退换)



睡眠医学

理论与实践

第4版

译者名单

(按姓氏笔画排序)

马继红 王 丁 贞 王 丽 王 玮 王 虹 王 彦 王 莹 王玉平 王志斌 王良兴 王晓翰 牛晓婷 毛孙忠 方 练 孔晓霞 邓哲宪 双 梅 占 叶慈慈 邢丽娟 瑶 闫 涵 吕志坤 朱凯铨 朱振国 朱晶莹 朱蓓蕾 刘亚男 全世超 刘志玮 刘重斌 刘继丽 孙元峰 杜 瀚 杜松妹 李 李云雷 李玉茜 李庆云 李国安 李智强 杨 庆 杨 闯 杨芳芳 时广森 旲 琬 旲 曦 吴小脉 吴文俊 吴贤敏 余 勤 谷习文 汪静波 张 征 张 悦 张 静 张卫华 张秀华 张秀华(药) 张希龙 张春红 陆华东 陈 宏 冲 陈 宏(口腔) 陈 君 陈 洁 陈 然 陈 蕾 陈成水 陈兆琴 陈宝元 陈晓云 邵蓓 林 范小芳 凤 林 凤(妇) 林子江 林源绍 易艳红 罗远明 金可可 金海丰 周春燕 周俊英 郑晋华 赵永忠 胡卢丰 胡 燕 胡红玲 胡志安 钟泽其 洪 娟 姚震亚 艳 红 贾明辉 贾福军 倪连松 徐璎 徐 德 徐昕红 徐惠琴 殷为勇 高云云 高莹卉 高雪梅 郭志强 唐向东 黄 萍 黄欢捷 黄志力 黄周青 黄建静 黄莉莉 黄跃跃 黄智铭 黄智慧 曹嘉添 龚永生 宿长军 彭建华 董莉 董斐蓉 董霄松 韩 芳 韩丽萍 程胜 程建华 童秋玲 曾海环 谢于鹏 蔡 健 蔡学定 樊东升 黎锐发 颜伏归 潘景业 潘集阳 冀玉婷 魏翠英

Peter Achermann, PhD

Senior Research Associate, Institute of Pharmacology and Toxicology, University of Zurich, Zurich, Switzerland

Sleep Homeostasis and Models of Sleep Regulation

Richard P. Allen, PhD

Assistant Professor, Department of Psychology and Brain Sciences, and Research Associate, Department of Neurology, School of Medicine, Johns Hopkins University, Baltimore, Maryland

Restless Legs Syndrome and Periodic Limb Movements during Sleep

Sonia Ancoli-Israel, PhD

Professor of Psychiatry, University of California, San Diego, School of Medicine; Director, Sleep Disorders Clinic, Department of Psychiatry, Veterans Affairs San Diego Health Care System, San Diego, California Sleep and Fatigue in Cancer Patients; Actigraphy

Josephine Arendt, BSc, PhD, FRCPath

Professor of Endocrinology (Emeritus), University of Surrey School of Biomedical and Molecular Sciences; Centre for Chronobiology, Neuroendocrinology Section, Guildford, United Kingdom

Sleep Disruption in Jet Lag and Other Circadian Rhythm–Related Disorders

Roseanne Armitage, BSc, MA, PhD

Professor of Psychiatry, University of Michigan Medical School; Director, Sleep and Chronophysiology Laboratory, Ann Arbor, Michigan

The Menstrual Cycle and Circadian Rhythms

Charles W. Atwood, Jr., MD

Assistant Professor of Medicine, University of Pittsburgh School of Medicine; Director, Sleep Disorders Program, VA Pittsburgh Healthcare System; Associate Director, UPMC Sleep Medicine Center, Pittsburgh, Pennsylvania

Medical Therapy for Obstructive Sleep Apnea-Hypopnea Syndrome

Fiona C. Baker, PhD

Post-Doctoral Researcher, Department of Psychology, University of California at Los Angeles, Los Angeles, California; Brain Function Research Unit, School of Physiology, University of the Witwatersrand, Johannesburg, South Africa

The Menstrual Cycle and Circadian Rhythms

Claudio Bassetti, MD

Professor of Neurology, University of Zurich School of Medicine; Vice-Chairman, Department of Neurology, University Hospital Zurich, Zurich, Switzerland Idiopathic Hypersomnia; Sleep and Stroke Ali Bassiri, MD

Clinical Instructor, Division of Pulmonary and Critical Care Medicine, Stanford University School of Medicine, Stanford, California; Sleep and Pulmonary Medicine Consultant, Stanford University Medical Center, San Jose, California

Clinical Features and Evaluation of Obstructive Sleep Apnea-Hypopnea Syndrome and the Upper Airway Resistance Syndrome

Maurice D. Baynard, MS

Predoctoral Fellow in Sleep and Chronobiology, Department of Psychiatry, Unit for Experimental Psychiatry, University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania

Chronic Sleep Deprivation

Brock A. Beamer, MD

Assistant Professor of Medicine, Division of Geriatric Medicine and Gerontology, Johns Hopkins University School of Medicine; Medical Staff, Johns Hopkins Bayview Medical Center, Baltimore, Maryland

Sleep Apnea and Metabolic Dysfunction

Ruth M. Benca, MD, PhD

Professor, Department of Psychiatry, University of Wisconsin–Madison School of Medicine, Madison, Wisconsin

Mood Disorders; Sleep and Eating Disorders

Kathleen L. Benson, PhD (retired)

Barnstable, Massachusetts;

Formerly, Associate Clinical Professor, Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine, Stanford, California; Director, Sleep Disorders Program, Veterans Administration Palo Alto Healthcare System,

Palo Alto, California

Schizophrenia

Donald L. Bliwise, PhD

Professor of Neurology, Emory University School of Medicine; Director, Program in Sleep, Aging and Chronobiology, Wesley Woods Geriatric Hospital, Atlanta, Georgia

Normal Aging

Bradley F. Boeve, MD

Associate Professor of Neurology, Mayo College of Medicine; Consultant, Department of Neurology and Mayo Sleep Disorders Center, Mayo Clinic, Rochester, Minnesota

Alzheimer's Disease and Other Dementias

Michael H. Bonnet, PhD

Professor, Department of Neurology, Wright State University School of Medicine; Director, Sleep Laboratory, Dayton Department of Veterans Affairs Medical Center. Dayton, Ohio

Acute Sleep Deprivation

Alexander A. Borbély, MD

Professor of Pharmacology, Institute of Pharmacology and Toxicology, University of Zurich, Zurich, Switzerland

Sleep Homeostasis and Models of Sleep Regulation

Orfeu M. Buxton, PhD

Instructor in Medicine, Harvard Medical School; Associate Neuroscientist, Division of Sleep Medicine, Department of Medicine, Brigham and Women's Hospital, Boston, Massachusetts

The Human Circadian Timing System and Sleep-Wake Regulation

Daniel J. Buysse, MD

Professor of Psychiatry, University of Pittsburgh School of Medicine; Director, Clinical Neuroscience Research Center, and Medical Director. Sleep and Chronobiology Program, UPMC Presbyterian/Western Psychiatric Institute and Clinic, Pittsburgh, Pennsylvania

Clinical Pharmacology of Other Drugs Used as Hypnotics

Christian Cajochen, PhD

Professor (SNF), University of Basel Faculty of Medicine; Psychiatric University Clinic, Basel, Switzerland Melatonin in the Regulation of Sleep and Circadian Rhythms

Mary A. Carskadon, PhD

Professor, Psychiatry and Human Behavior, Brown University Medical School; Director of Sleep and Chronobiology Research, Bradley Hospital Sleep Research Laboratory, Providence, Rhode Island

Normal Human Sleep: An Overview; Daytime Sleepiness and Alertness; Monitoring and Staging Human Sleep; Evaluating Sleepiness

Rosalind Cartwright, PhD

Professor, Rush University Medical College; Affiliated Scientist, Rush University Medical Center, Chicago, Illinois

Dreaming as a Mood Regulation System

Michael H. Chase, PhD

Professor Emeritus, Department of Physiology, University of California at Los Angeles; President/Senior Researcher, WebSciences International, Los Angeles, California

Control of Motoneurons during Sleep

Chien Lin Chen, MD

Lecturer, Department of Medicine, Tzu Chi University School of Medicine; Director, Gastrointestinal Motility Laboratory, and Attending Physician, Division of Gastroenterology and Hepatology, Tzu Chi General Hospital, Hualien, Taiwan

Gastrointestinal Monitoring Techniques

Ronald D. Chervin, MD, MS

Associate Professor, Department of Neurology, University of Michigan Medical School; Director, Sleep Disorders Center, University Hospital, Ann Arbor, Michigan

Use of Clinical Tools and Tests in Sleep Medicine

Camellia P. Clark, MD

Assistant Adjunct Professor of Psychiatry, University of California, San Diego, School of Medicine La Jolla, California; Associate Physician, Veterans Medical Research Foundation, San Diego, California

Medication and Substance Abuse

Michel A. Cramer Bornemann, MD

Staff Physician, Department of Neurology, Department of Pulmonary & Critical Medicine, Minnesota Regional Sleep Disorders Center, Hennepin County Medical Center, Minneapolis, Minnesota; Clinical Scholar Instructor, Department of Neurology, University of Minnesota School of Medicine

NREM Sleep-Arousal Parasomnias

Antonio Culebras, MD

Professor, Department of Neurology, Upstate Medical University, State University of New York at Syracuse; Consultant, The Sleep Center, Community General Hospital, Syracuse, New York

Other Neurological Disorders

Charles Andrew Czeisler, PhD, MD

Frank Baldino Jr., PhD, Professor of Sleep Medicine, Harvard Medical School; Chief, Division of Sleep Medicine, Department of Medicine, Brigham and Women's Hospital, Boston, Massachusetts

The Human Circadian Timing System and Sleep-Wake Regulation; Melatonin in the Regulation of Sleep and Circadian Rhythms

O'Neill F. D'Cruz, MD

Professor, Departments of Neurology and Pediatrics, University of North Carolina at Chapel Hill School of Medicine, Chapel Hill, North Carolina Cardinal Manifestations of Sleep Disorders

William C. Dement, MD, PhD

Lowell W. and Josephine Q. Berry Professor of Psychiatry and Behavioral Sciences, and Director, Sleep Disorders and Research Center, Stanford University School of Medicine, Palo Alto,

History of Sleep Physiology and Medicine; Normal Human Sleep: An Overview; Daytime Sleepiness and Alertness; Sleep Medicine, Public Policy, and Public Health

Derk-Jan Dijk, PhD

Professor of Sleep and Physiology Director, Surrey Sleep Research Centre University of Surrey, Guildford, UK Interaction of Sleep Homeostasis and Circadian Rhythmicity: Dependent or Independent Systems?

David F. Dinges, PhD

Professor of Psychology, Department of Psychiatry, University of Pennsylvania School of Medicine; Chief, Division of Sleep and Chronobiology, Department of Psychiatry, and Associate Director, Center for Sleep and Respiratory Neurobiology, Philadelphia, Pennsylvania

Chronic Sleep Deprivation; Circadian Rhythms in Sleepiness, Alertness, and Performance; Sleep Medicine, Public Policy, and Public Health

G. William Domhoff, PhD

Research Professor in Psychology, Department of Psychology, University of California, Santa Cruz, California

The Content of Dreams: Methodologic and Theoretical Implications

Neil J. Douglas, MD, DSc, FRCP, FRCPE

Professor of Respiratory and Sleep Medicine, University of Edinburgh; Respiratory Medicine, Royal Infirmary, Edinburgh, United Kingdom Respiratory Physiology: Control of Ventilation; Asthma and Chronic Obstructive Pulmonary Disease

Sean P. A. Drummond, PhD

Assistant Professor of Psychiatry, University of California, San Diego, School of Medicine, La Jolla; VA San Diego Healthcare System, San Diego, California Medication and Substance Abuse

Christine Dugovic, PhD

Research Associate Professor, Northwestern University; Center for Sleep and Circadian Biology, Evanston, Illinois Master Circadian Clock, Master Circadian Rhythm

Jack D. Edinger, PhD

Clinical Professor, Department of Psychiatry and Behavioral Sciences, Duke University School of Medicine; Senior Psychologist, VA Medical Center, Durham, North Carolina

Overview of Insomnia: Definitions, Epidemiology, Differential Diagnosis, and Assessment

Luigi Ferini-Strambi, MD

Associate Professor of Psychology of Sleep and Assistant Professor of Neurology, University Vita-Salute San Raffaele; Director, Sleep Disorders Center, Department of Neurology, San Raffaele Institute, Milan, Italy

Restless Legs Syndrome and Periodic Limb Movements during Sleep

Kathleen A. Ferguson, BSc, MD, FRCP

Associate Professor of Medicine, University of Western Ontario Faculty of Medicine; London Health Sciences Centre, London, Ontario, Canada Oral Appliances for Sleep-Disordered Breathing

Paul Franken, PhD

Senior Research Scientist, Department of Biological Sciences, Stanford University, Stanford, California Interaction of Sleep Homeostasis and Circadian Rhythmicity: Dependent or Independent Systems?

Karl A. Franklin, MD, PhD

Associate Professor, Department of Public Health and Clinical Medicine, Umeå University Faculty of Medicine; Consultant Physician, Department of Respiratory Medicine, University Hospital, Umeå, Sweden Coronary Artery Disease and Obstructive Sleep Apnea

Carlo Franzini, MD

Professor of Human Physiology, Dipartimento di Fisiologia Umana e Generale, University of Bologna Faculty of Medicine, Bologna, Italy Cardiovascular Physiology: The Peripheral Circulation

Scott Fromherz, MD

Fellow in Sleep Medicine, Stanford Sleep Disorders Clinic, Stanford, California

Narcolepsy: Diagnosis and Management

Charles F. P. George, MD, FRCPC, FCCP, DABSM

Professor of Medicine and Chair, Division of Respirology, University of Western Ontario Faculty of Medicine; Medical Director, Sleep Medicine Clinic and Laboratory, London Health Sciences Centre, London, Ontario, Canada

Neuromuscular Disease; Cognition and Performance in Patients with Obstructive Sleep Apnea

J. Christian Gillin, MD (deceased)

Formerly at University of California, San Diego, School of Medicine and VA San Diego Healthcare System, San Diego, California

Medication and Substance Abuse

Paul B. Glovinsky, PhD

Adjunct Professor, Doctoral Program in Experimental Cognition, City University of New York, New York, NY; Clinical Director, Capital Region Sleep/Wake Disorders Center, Albany, New York

Assessment Techniques for Insomnia

Joshua J. Gooley, BA

Program in Neuroscience, Division of Sleep Medicine, Harvard Medical School; Department of Neurology, Beth Israel Deaconess Medical Center, Boston, Massachusetts Anatomy of the Mammalian Circadian System

Ronald Grunstein, MB, BS, MD, PhD, FRACP

Associate Professor, Department of Medicine, University of Sydney Faculty of Medicine; Head, Sleep Research Group, Woolcock Institute of Medical Research; Head, Centre for Respiratory Failure and Sleep Disorders, Royal Prince Alfred Hospital, Sydney, New South Wales, Australia Continuous Positive Airway Pressure Treatment for Obstructive Sleep Apnea—Hypopnea Syndrome; Endocrine Disorders

Christian Guilleminault, MD, BiolD

Professor, Sleep Medicine Program, Stanford University School of Medicine; Stanford University Sleep Disorders Clinic, Stanford, California

Narcolepsy: Diagnosis and Management; Idiopathic Hypersomnia; Neuromuscular Disease; Clinical Features and Evaluation of Obstructive Sleep Apnea-Hypopnea Syndrome and the Upper Airway Resistance Syndrome; Surgical Management of Sleep-Disordered Breathing Ronald M. Harper, PhD

Professor of Neurobiology, Department of Neurology, David Geffen School of Medicine at UCLA, Los Angeles, California

Cardiovascular Physiology: Central and Autonomic Regulation

Jan Hedner, MD, PhD

Professor of Sleep Medicine, Sahlgrenska University Faculty of Medicine; Pulmonary Medicine, Sahlgrenska University Hospital, Göteborg, Sweden Coronary Artery Disease and Obstructive Sleep Apnea

H. Craig Heller, PhD

Professor, Department of Biological Sciences, Stanford University, Stanford, California
Temperature, Thermoregulation, and Sleep

John H. Herman, PhD

Professor, Department of Psychiatry, University of Texas Southwestern Medical Center at Dallas; Director, Sleep Disorders Center for Children, Children's Medical Center at Dallas, Dallas, Texas

Chronobiologic Monitoring Techniques

Max Hirshkowitz, PhD

Associate Professor, Department of Psychiatry and Department of Medicine, Baylor College of Medicine; Director, Sleep Disorders and Research Center, Michael E. DeBakey Veterans Affairs Medical Center; Clinical Director, Methodist Hospital Diagnostic Sleep Laboratory, VAMC Sleep Center, Houston, Texas

Monitoring Techniques for Evaluating Suspected Sleep-Disordered Breathing; Assessment of Sleep-Related Erections; Evaluating Sleepiness

J. Allan Hobson, MD

Professor of Psychiatry, Harvard Medical School, Boston; Massachusetts Mental Health Center, Boston, Massachusetts

Cardiovascular Physiology: Central and Autonomic Regulation

Victor Hoffstein, MD, PhD

Professor of Medicine, University of Toronto Faculty of Medicine; Staff Respirologist, St. Michael's Hospital, Toronto, Ontario, Canada Snoring and Upper Airway Resistance

Christer Hublin, MD, PhD

Associate Professor (Docent), Department of Neurology, University of Helsinki School of Medicine; Senior Researcher, Finnish Institute of Occupational Health, Helsinki, Finland

Epidemiology of Sleep Disorders

Shahrokh Javaheri, MD

Professor Emeritus, University of Cincinnati Medical School, Cincinnati, Ohio; Medical Director, Sleepcare Diagnostics, Inc., Mason, OH

Sleep and Cardiovascular Disease: Present and Future; Cardiovascular Effects of Sleep-Related Breathing Disorders; Systemic and Pulmonary Hypertension in Obstructive Sleep Apnea; Heart Failure

Barbara E. Jones, PhD

Professor, Department of Neurology and Neurosurgery, McGill University Faculty of Medicine; Montreal Neurological Institute, Montreal, Quebec, Canada Basic Mechanisms of Sleep-Wake States

Mark E. Josephson, MD

Herman C. Dana Professor of Medicine, Harvard Medical School; Chief, Cardiovascular Division, and Director, Harvard-Thorndike Electrophysiology Institute and Arrhythmia Service, Beth Israel Deaconess Medical Center, Boston, Massachusetts

Cardiac Arrythmogenesis during Sleep: Mechanisms, Diagnosis, and Therapy

Takafumi Kato, DDS, PhD

Assistant Professor, Institute for Oral Science, Division of Maxillofacial Biology, Matsumoto Dental University, Shiojiri, Nagano, Japan

Sleep Bruxism

Sat Bir Singh Khalsa, PhD

Instructor in Medicine, Harvard Medical School; Associate Neuroscientist, Sleep Disorders Program, Brigham and Women's Hospital, Boston, Massachusetts

The Human Circadian Timing System and Sleep-Wake Regulation

Jean Krieger, MD, PhD

Professor, University Louis Pasteur Faculty of Medicine; Department Head, Service d'Explorations Fonctionnelles du Système Nerveux et de Pathologie du Sommeil, Clinique Neurologique, University of Strasburg Hospitals, Strasburg, France

Respiratory Physiology: Breathing in Normal Subjects

James M. Krueger, PhD

Professor, Department of Veterinary and Comparative Anatomy, Pharmacology and Physiology, Washington State University College of Veterinary Medicine, Pullman, Washington

Host Defense

Meir H. Kryger, MD, FRCPC

Professor of Medicine, University of Manitoba Faculty of Medicine; Director, Sleep Disorders Center, St. Boniface General Hospital, Winnipeg, Manitoba, Canada Management of Obstructive Sleep Apnea-Hypopnea Syndrome: Overview; Restrictive Lung Disorders; Monitoring Techniques for Evaluating Suspected Sleep-Disordered Breathing

Leszek Kubin, PhD

Research Professor of Physiology, Department of Animal Biology, University of Pennsylvania School of Veterinary Medicine, Philadelphia, Pennsylvania Respiratory Physiology: Central Neural Control

Samuel T. Kuna, MD

Associate Professor of Medicine, University of Pennsylvania; Chief, Pulmonary, Critical Care and Sleep Section, Philadelphia Veterans Affairs Medical Center, Philadelphia, Pennsylvania

Anatomy and Physiology of Upper Airway Obstruction

Aaron D. Laposky, PhD

Research Assistant Professor, Department of Neurobiology and Physiology, Northwestern University; Center for Sleep and Circadian Biology, Evanston, Illinois

Master Circadian Clock, Master Circadian Rhythm

Gilles J. Lavigne, DMD, MSc, PhD, FRCD

Professor, University of Montreal Faculty of Medicine and Dentistry; Researcher and Clinician, Hôpital du Sacré-Coeur de Montréal, Montreal, Quebec, Canada

Sleep Bruxism; Pain and Sleep

Kathryn A. Lee, PhD, RN

Professor of Nursing, Department of Family Health Care Nursing; James and Marjorie Livingston Endowed Chair in Nursing; and Director, Perinatal Nursing Clinical Specialist Program, University of California, San Francisco, School of Nursing, San Francisco, California

Pregnancy and the Postpartum Period

Patrick Leger, MD

Fédération des Pathologies du Sommeil et Institut de Myologie, Hôpital Pitié Salpêtrière, Paris, France Noninvasive Ventilation for Chronic Respiratory Failure

Kenneth L. Lichstein, PhD

Professor and Chair, Department of Psychology, University of Alabama, Tuscaloosa, Alabama Psychological and Behavioral Treatments for Secondary Insomnias

Alan A. Lowe, DMD, PhD, FRCD(C), FCDS(BC)

Professor and Chair, Division of Orthodontics, University of British Columbia Faculty of Dentistry, Vancouver, British Columbia, Canada

Oral Appliances for Sleep-Disordered Breathing

James G. MacFarlane, BSc, PhD

Assistant Professor of Psychiatry, University of Toronto Faculty of Medicine; Lab Director, Centre for Sleep and Chronobiology, Toronto, Ontario Canada Fibromyalgia and Chronic Fatigue Syndromes

Mark W. Mahowald, MD

Professor, Department of Neurology, University of Minnesota Medical School; Director, Minnesota Regional Sleep Disorders Center, Hennepin County Medical Center, Minneapolis, Minnesota

Epilepsy, Sleep, and Sleep Disorders; NREM Sleep-Arousal Parasomnias; REM Sleep Parasomnias; Other Parasomnias; Violent Parasomnias: Forensic Medicine Issues

Jeannine A. Majde, PhD

Adjunct Professor, Department of Veterinary and Comparative Anatomy, Pharmacology and Physiology, Washington State University College of Veterinary Medicine, Pullman, Washington

Host Defense

Beth A. Malow, MD, MS

Associate Professor, Department of Neurology, Vanderbilt University School of Medicine; Medical Director, Vanderbilt Sleep Disorders Laboratory, Nashville, Tennessee

Approach to the Patient with Disordered Sleep; Neurologic Monitoring Techniques

Christiane Manzini

Research Assistant, University of Montreal Faculty of Medicine and Dentistry; Center for the Study of Sleep and Biological Rhythms, Hôpital du Sacré-Coeur de Montréal, Montreal, Quebec, Canada Sleep Bruxism

Christina S. McCrae, PhD

Assistant Professor, Center for Gerontological Studies/Department of Psychology, University of Florida, Gainesville, Florida

Psychological and Behavioral Treatments for Secondary Insomnias

Dennis McGinty, PhD

Adjunct Professor, Department of Psychology, UCLA, Los Angeles; Chief of Neurophysiology Research, Veterans Administration Greater Los Angeles Healthcare System, Los Angeles, California

Sleep-Promoting Mechanisms in Mammals

Diana McMillan, RN, PhD

Assistant Professor, University of Manitoba Faculty of Nursing, Winnipeg, Manitoba, Canada Pain and Sleep

Melanie K. Means, PhD

Staff Psychologist, VA Medical Center, Research Associate, Department of Psychiatry and Behavioral Sciences, Duke University Medical Center, Durham, North Carolina

Overview of Insomnia: Definitions, Epidemiology, Differential Diagnosis, and Assessment

Thomas A. Mellman, MD

Professor and Vice Chair for Research, Department of Psychiatry, Howard University, Washington, DC Dreams and Nightmares in Posttraumatic Stress Disorder; Anxiety Disorders

Wallace B. Mendelson, MD

Professor of Psychiatry and Clinical Pharmacology, University of Chicago, Chicago, Illinois Hypnotic Medications: Mechanisms of Action and Pharmacologic Effects

Emmanuel Mignot, MD, PhD

Professor of Psychiatry and Behavioral Sciences, Stanford University School of Medicine; Investigator, Howard Hughes Medical Institute; Director, Stanford Center for Narcolepsy, Palo Alto, California Wake-Promoting Medications: Basic Mechanisms and

Pharmacology; Narcolepsy: Pharmacology, Pathophysiology, and Genetics

Ralph Mistlberger, PhD

Professor, Department of Psychology, Simon Fraser University, Burnaby, British Columbia, Canada Circadian Rhythms in Mammals: Formal Properties and Environmental Influences

Merrill M. Mitler, MA, PhD

Program Director, National Institute of Neurological Disorders and Stroke, National Institutes of Health, Bethesda, Maryland

Wake-Promoting Medications: Efficacy and Adverse Effects; Evaluating Sleepiness

Murray A. Mittleman, MD, DrPH

Associate Professor of Medicine, Harvard Medical School; Associate Professor of Epidemiology, Harvard School of Public Health, Harvard University; Director, Cardiovascular Epidemiology, Beth Israel Deaconess Medical Center, Boston, Massachusetts Sleep-Related Cardiac Risk

Karen E. Moe, PhD

Research Associate Professor, Department of Psychiatry and Behavioral Sciences, University of Washington School of Medicine, Seattle, Washington Menopause

Harvey Moldofsky, MD, Dipl Psych, FRCP(C)

Professor Emeritus, University of Toronto Faculty of Medicine; President and Medical Director, Sleep Disorders Clinic, Centre for Sleep and Chronobiology, Toronto, Ontario, Canada

Fibromyalgia and Chronic Fatigue Syndromes

Timothy H. Monk, PhD, DSc

Professor of Psychiatry, University of Pittsburgh School of Medicine; Director, Human Chronobiology Research Program, Western Psychiatric Institute and Clinic, Pittsburgh, Pennsylvania Shift Work: Basic Principles

Jacques Montplaisir, MD, PhD, CRCPc

Department of Psychiatry, University of Montreal Faculty of Medicine and Dentistry; Director, Center for the Study of Sleep and Biological Rhythms, Hôpital du Sacré-Coeur de Montréal, Montreal, Quebec, Canada

Restless Legs Syndrome and Periodic Limb Movements during Sleep; Alzheimer's Disease and Other Dementias

Polly Moore, PhD, RPsgT

Visiting Instructor, Psychology Department, University of San Diego; Research Associate, Scripps Clinic Sleep Center, La Jolla, California

Medication and Substance Abuse

Francisco R. Morales, MD

Chairman, Department of Physiology, University of Montevideo Faculty of Medicine, Montevideo, Uruguay; Researcher, Websciences International, Los Angeles, California

Control of Motoneurons during Sleep

Charles M. Morin, PhD

Professor of Psychology, Laval University School of Psychology; Centre d'Etude des Troubles du Sommeil, Centre de Recherche Université Laval/Robert-Giffard, Sainte-Foy, Québec, Canada

Psychological and Behavioral Treatments for Primary Insomnia

Douglas E. Moul, MD, MPH

Assistant Professor of Psychiatry, Department of Psychiatry, University of Pittsburgh School of Medicine; Sleep and Chronobiology Center, Western Psychiatric Institute and Clinic, Pittsburgh, Pennsylvania Clinical Pharmacology of Other Drugs Used as Hypnotics

Sidney D. Nau, PhD

Research Scientist, Sleep Research Project, Department of Psychology, University of Alabama, Tuscaloosa, Alabama

Psychological and Behavioral Treatments for Secondary Insomnias

Tore A. Nielsen, PhD

Assistant Professor, Department of Psychiatry, University of Montreal Faculty of Medicine and Dentistry; Research Professor, Sleep Study Center, Hôpital du Sacré-Cœur de Montréal, Montreal, Quebec, Canada Chronobiology of Dreaming; Nightmares and Other Common Dream Disturbances; Disturbed Dreaming in Medical Conditions

Seiji Nishino, MD, PhD

Associate Professor, Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine, and Associate Director, Center for Narcolepsy, Stanford, California

Wake-Promoting Medications: Basic Mechanisms and Pharmacology

Mary B. O'Malley, MD, PhD

Clinical Instructor, Department of Psychiatry, New York University School of Medicine, New York, New York; Program Director, Sleep Medicine Fellowship, Sleep Disorders Center, Norwalk Hospital, Norwalk, Connecticut

Wake-Promoting Medications: Efficacy and Adverse Effects

John Orem, PhD

Murray Professor of Physiology, Texas Tech University School of Medicine, Lubbock, Texas Respiratory Physiology: Central Neural Control

William C. Orr, PhD

Clinical Professor of Medicine, Oklahoma University School of Medicine; President and CEO, Lynn Health Science Institute, Oklahoma City, Oklahoma Gastrointestinal Physiology; Gastrointestinal Disorders; Gastrointestinal Monitoring Techniques

Edward F. Pace-Schott, MS, MA, LMHC

Instructor, Department of Psychiatry, Harvard Medical School; Center for Sleep and Cognition, Beth Israel Deaconess Medical Center, Boston, Massachusetts The Neurobiology of Dreaming

Pier Luigi Parmeggiani, MD

Emeritus Professor of Physiology, Department of Human and General Physiology, University of Bologna Faculty of Medicine, Bologna, Italy

Physiologic Regulation in Sleep

Barbara L. Parry, MD

Professor of Psychiatry, University of California, San Diego, School of Medicine; Director, Women's Mood Disorders Clinic, La Jolla, California

The Menstrual Cycle and Circadian Rhythms

Markku Partinen, MD, PhD

Associate Professor (Docent), Department of Neurology, University of Helsinki Faculty of Medicine; Chief Physician and Director, Skogby Sleep Clinic, Rinnekoti Research Center, Espoo, Finland

Epidemiology of Sleep Disorders

Yüksel Peker, MD, PhD

Consultant Internist and Pulmonologist, Sleep Unit, Department of Internal Medicine, Skaraborg County Hospital, Lidköping, Sweden

Coronary Artery Disease and Obstructive Sleep Apnea

Rafael Pelayo, MD

Assistant Professor, Department of Psychiatry and Behavioral Science, Stanford University School of Medicine; Stanford Sleep Disorders Clinic, Stanford, California

Idiopathic Hypersomnia

Michael L. Perlis, PhD

Associate Professor, Department of Psychiatry, University of Rochester; Faculty, Neurosciences Program; Director, Sleep and Neurophysiology Research Laboratory, and Director, University of Rochester Behavioral Sleep Medicine Service, Rochester, New York

Etiology and Pathophysiology of Insomnia

Dominique Petit, PhD

Research Assistant, Department of Psychiatry, University of Montreal Faculty of Medicine; Senior Research Assistant, Center for the Study of Sleep and Biological Rhythms, Hôpital du Sacré-Coeur de Montréal, Montreal, Quebec, Canada

Alzheimer's Disease and Other Dementias

Barbara Phillips, MD, MSPH

Professor of Medicine, University of Kentucky College of Medicine; University of Kentucky Hospital, Samaritan Medical Center, Lexington, Kentucky

Management of Obstructive Sleep Apnea-Hypopnea Syndrome: Overview

Wilfred R. Pigeon, PhD

Senior Instructor, Department of Psychiatry, University of Rochester School of Medicine and Dentistry; Research Fellow, University of Rochester Sleep Research and Neurophysiology Laboratory, Rochester, New York Dreams and Nightmares in Posttraumatic Stress Disorder; Etiology and Pathophysiology of Insomnia

Lawrence H. Pinto, PhD

Professor of Neurobiology, Department of Neurobiology and Physiology, and Associate Director, Center for Functional Genomics, Northwestern University, Evanston, Illinois

Molecular Genetic Basis for Mammalian Circadian Rhythms

Nelson B. Powell, DDS, MD

Adjunct Clinical Professor of Surgery, Department of Otolaryngology–Head and Neck Surgery, and Adjunct Clinical Professor of Sleep Disorders Medicine, Department of Psychiatry and Behavioral Sciences, Stanford University School of Medicine; Stanford University Sleep and Research Center, Stanford, California

Surgical Management of Sleep-Disordered Breathing

Naresh M. Punjabi, MD, PhD

Assistant Professor of Medicine and Epidemiology, Johns Hopkins University School of Medicine; Medical Staff, Division of Pulmonary and Critical Care Medicine, Johns Hopkins Asthma and Allergy Center, Johns Hopkins Hospital, Baltimore, Maryland

Sleep Apnea and Metabolic Dysfunction

Allan Rechtschaffen, PhD

Professor Emeritus, Department of Psychiatry and Department of Psychology, University of Chicago, Chicago, Illinois

Monitoring and Staging Human Sleep

Susan Redline, MD, MPH

Professor of Pediatrics, Medicine, Epidemiology and Biostatistics, Case Western Reserve University School of Medicine; Chief, Division of Clinical Epidemiology, Rainbow Babies and Children's Hospital, Cleveland, Ohio

Genetics of Obstructive Sleep Apnea

Kathryn J. Reid, PhD

Research Assistant Professor, Center for Sleep and Circadian Biology, Northwestern University, Evanston, Illinois

Circadian Disorders of the Sleep-Wake Cycle

John E. Remmers, MD

Professor of Internal Medicine and of Physiology and Biophysics, University of Calgary Faculty of Medicine; Physician, Foothills Hospital, Calgary, Alberta,

Anatomy and Physiology of Upper Airway Obstruction

Robert W. Riley, DDS, MD

Adjunct Clinical Professor of Surgery, Department of Otolaryngology Head and Neck Surgery, and Adjunct Clinical Associate Professor of Sleep Disorders Medicine, Department of Psychiatry and Behavioral Science, Stanford University School of Medicine; Stanford University Sleep and Research Center, Stanford, California

Surgical Management of Sleep-Disordered Breathing

Dominique Robert, MD

Professor of Medicine, University Claude Bernard Faculty of Medicine; Chief, Department of Emergency and Intensive Care Medicine, Hospices Civils de Lyon, Hôpital Edouard Herriot, Lyon, France Noninvasive Ventilation for Chronic Respiratory Failure

Timothy Roehrs, PhD

Professor, Department of Psychiatry and Behavioral Neuroscience, Wayne State University School of Medicine; Director of Research, Sleep Disorders and Research Center, Henry Ford Hospital, Detroit,

Daytime Sleepiness and Alertness; Pharmacologic Treatment of Primary Insomnia

Naomi L. Rogers, PhD

Senior Research Fellow, Woolcock Institute of Medical Research, University of Sydney, Sydney, New South Wales, Australia

Chronic Sleep Deprivation

Mark R. Rosekind, PhD

President and Chief Scientist, Alertness Solutions. Cupertino, California

Managing Work Schedules: An Alertness and Safety Perspective

Alan M. Rosenwasser, PhD

Professor of Psychology, University of Maine, Orono.

Physiology of the Mammalian Circadian System

Thomas Roth, PhD

Professor, Department of Psychiatry, Wayne State University School of Medicine, Detroit; Clinical Professor. Department of Psychiatry, University of Michigan Medical School, Ann Arbor; Division Head, Sleep Disorders and Research Center, Henry Ford Hospital, Detroit, Michigan

Daytime Sleepiness and Alertness; Pharmacologic Treatment of Primary Insomnia

Benjamin Rusak, PhD

University Research Professor and Director of Research, Department of Psychiatry, and Professor of Psychology and Pharmacology, Dalhousie University Faculty of Medicine; Director, Chronobiology and Sleep Program, Capital District Health Authority. QEII Health Sciences Centre, Halifax, Nova Scotia, Canada

Circadian Rhythms in Mammals: Formal Properties and Environmental Influences

Mark H. Sanders, MD

Professor of Medicine and Anesthesiology, Director of Research, Pulmonary Sleep Disorders Program, Division of Pulmonary, Allergy and Critical Care Medicine, University of Pittsburgh School of Medicine, Pittsburgh; Montefiore University Hospital, Pittsburgh, Pennsylvania

Medical Therapy for Obstructive Sleep Apnea-Hypopnea Syndrome

Clifford B. Saper, MD, PhD

James Jackson Putnam Professor of Neurology and Neurosciences and Chairman, Department of Neurology, Harvard Medical School; Chairman, Department of Neurology, Beth Israel Deaconess Medical Center, Boston, Massachusetts

Anatomy of the Mammalian Circadian System

Frank A. Scheer, PhD

Research Fellow, Division of Sleep Medicine, Department of Medicine, Harvard Medical School and Brigham and Women's Hospital, Boston, Massachusetts

Melatonin in the Regulation of Sleep and Circadian Rhythms

Carlos H. Schenk, MD

Associate Professor of Psychiatry, University of Minnesota Medical School; Senior Staff Psychiatrist, Minnesota Regional Sleep Disorders Center, Hennepin County Medical Center, Minneapolis, Minnesota

REM Sleep Parasomnias; Violent Parasomnias: Forensic Medicine Issues; Sleep and Eating Disorders

Markus H. Schmidt, MD, PhD

Adjunct Assistant Professor, Department of Neuroscience, The Ohio State University College of Medicine and Public Health, Columbus; Director of Research, Ohio Sleep Medicine and Neuroscience Institute, Dublin, Ohio

Neural Mechanisms of Sleep-Related Penile Erections

Richard J. Schwab, MD

Associate Professor of Medicine, University of Pennsylvania School of Medicine; Co-Medical Director, Penn Sleep Center, Hospital of the University of Pennsylvania, Philadelphia, Pennsylvania Anatomy and Physiology of Upper Airway Obstruction

Paula K. Schweitzer, PhD

Associate Director, Sleep Medicine and Research Center, Chesterfield, Missouri

Clinical Pharmacology of Other Drugs Used as Hypnotics; Drugs That Disturb Sleep and Wakefulness

Margaret N. Shouse, PhD

Professor IV, Department of Neurobiology, UCLA School of Medicine; Chief, Sleep Disturbance Research, VA Greater Los Angeles Healthcare System, Los Angeles, California

Epilepsy, Sleep, and Sleep Disorders

Jerome M. Siegel, PhD

Professor of Psychiatry and Biobehavioral Sciences, David Geffen School of Medicine at UCLA, Los Angeles; Chief, Neurobiology Research, VA Greater Los Angeles Healthcare System-Sepulveda, North Hills, California Mammalian Sleep; REM Sleep

Debra J. Skene, BPharm, MSc, PhD

Professor of Neuroendocrinology, University of Surrey School of Biomedical and Molecular Sciences; Centre for Chronobiology, Neuroendocrinology Section, Guildford, United Kingdom

Sleep Disruption in Jet Lag and Other Circadian Rhythm-Related Disorders

Michael T. Smith, PhD

Assistant Professor, Johns Hopkins University School of Medicine; Clinical Psychologist, Behavioral Medicine Research Laboratory and Clinic, Johns Hopkins Hospital, Baltimore, Maryland

Etiology and Pathophysiology of Insomnia

Virend K. Somers, MD, D Phil

Professor of Medicine, Mayo Medical School; Mayo Clinic, Rochester, Minnesota

Cardiovascular Effects of Sleep-Related Breathing Disorders

Arthur J. Spielman, PhD

Professor, Department of Psychology, The City College of the City University of New York; Adjunct Clinical Professor of Psychology in Neuroscience, Weill Medical College, Cornell University; Associate Director, Center for Sleep Medicine, New York Presbyterian Hospital; Associate Director, Center for Sleep Disorders Medicine and Research, New York Methodist Hospital, New York, New York

Assessment Techniques for Insomnia

Murray B. Stein, MD, MPH, FRCPC

Professor of Psychiatry and Director, Anxiety and Traumatic Stress Disorders Research and Education Program, University of California, San Diego, School of Medicine; Chief, Anxiety and Traumatic Stress Disorders Programs, VA San Diego Healthcare System, La Jolla, California

Anxiety Disorders

Mircea Steriade, MD, DSc

Professor of Neuroscience, Laval University Faculty of Medicine; Department of Anatomy and Physiology, Quebec, Canada

Brain Electrical Activity and Sensory Processing during Waking and Sleep States

Robert Stickgold, PhD

Assistant Professor of Psychiatry, Harvard Medical School; Beth Israel-Deaconess Medical Center, Boston Massachusetts Introduction to Dreams and Their Pathology; Why We Dream

Barbara Stone, BSc, PhD

Principal Consultant, QinetiQ Centre for Human Sciences, Farnborough, United Kingdom Sleep Disruption in Jet Lag and Other Circadian Rhythm-Related Disorders

Kristen C. Stone, BA

Clinical Psychology Graduate Student, University of Memphis, Memphis, Tennessee

Psychological and Behavioral Treatments for Secondary Insomnias

Patrick J. Strollo, Jr., MD

Associate Professor of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine, Department of Medicine, University of Pittsburgh School of Medicine; Medical Director, UPMC Sleep Medicine Center, Pittsburgh, Pennsylvania

Medical Therapy for Obstructive Sleep Apnea-Hypopnea Syndrome

Ronald Szymusiak, PhD

Adjunct Professor, Department of Medicine, David Geffen School of Medicine at UCLA, Los Angeles; Research Scientist, VA Greater Los Angeles Healthcare System, Los Angeles, California

Sleep-Promoting Mechanisms in Mammals

Jiuan Su Terman, PhD

Research Scientist, New York State Psychiatric Institute, New York, New York Light Therapy

Michael Terman, PhD

Professor of Clinical Psychology in Psychiatry, Columbia University College of Physicians and Surgeons; Director, Clinical Chronobiology, New York State Psychiatric Institute, New York, New York

Light Therapy

Michael J. Thorpy, MD

Associate Professor of Neurology, Albert Einstein College of Medicine of Yeshiva University, Bronx; Director, Sleep-Wake Disorders Center, Montefiore Medical Center, Scarsdale, New York

Classification of Sleep Disorders

Irene Tobler, PhD

Professor, Institute of Pharmacology and Toxicology, University of Zurich, Zurich, Switzerland Phylogeny of Sleep Regulation; Mammalian Sleep

Claudia Trenkwalder, MD

Professor of Neurology, University of Göttingen School of Medicine, Göttingen; Medical Director, Paracelsus Elena Klinik, Special Hospital for Parkinson Disease and Movement Disorders, Kassel, Germany Parkinsonism

Fred W. Turek, PhD

Professor, Department of Neurobiology and Physiology, Northwestern University, and Director, Center for Sleep and Circadian Biology, Evanston, Illinois

Master Circadian Clock, Master Circadian Rhythm; Physiology of the Mammalian Circadian System; Molecular Genetic Basis for Mammalian Circadian Rhythms; Melatonin in the Regulation of Sleep and Circadian Rhythms; Introduction: Disorders of Chronobiology

Eve Van Cauter, PhD

Professor, Department of Medicine, University of Chicago Pritzker School of Medicine, Chicago, Illinois Endocrine Physiology

Hans P. A. Van Dongen, MS, PhD

Research Associate Professor of Sleep and Chronobiology in Psychiatry, University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania

Circadian Rhythms in Sleepiness, Alertness, and Performance

Bradley V. Vaughn, MD

Associate Professor of Neurology, Department of Neurology, University of North Carolina at Chapel Hill School of Medicine, Chapel Hill, North Carolina Cardinal Manifestations of Sleep Disorders Richard L. Verrier, PhD

Associate Professor of Medicine, Harvard Medical School; Beth Israel Deaconess Medical Center, Boston, Massachusetts

Cardiovascular Physiology: Central and Autonomic Regulation; Sleep-Related Cardiac Risk; Cardiac Arrythmogenesis during Sleep: Mechanisms, Diagnosis, and Therapy

Martha Hotz Vitaterna, PhD

Research Assistant Professor, Center for Functional Genomics, Northwestern University Center for Functional Genomics, Evanston, Illinois

Molecular Genetic Basis for Mammalian Circadian Rhythms

James K. Walsh, PhD

Adjunct Professor, Department of Psychology, and Clinical Professor, Department of Psychiatry, School of Medicine, Saint Louis University; Executive Director and Senior Scientist, Sleep Medicine and Research Center, St. John's Mercy and St. Luke's Hospitals, Chesterfield, Missouri Sleep Medicine, Public Policy, and Public Health; Pharmacologic Treatment of Primary Insomnia

Arthur S. Walters, MD

Professor, Department of Neuroscience, Seton Hall University School of Graduate Medical Education, South Orange; Clinical Professor of Neurology, UMDNJ–Robert Wood Johnson Medical School, New Brunswick; New Jersey Neuroscience Institute at JFK Medical Center, Edison, New Jersey

Restless Legs Syndrome and Periodic Limb Movements during Sleep

J. Catesby Ware, PhD

Professor, Departments of Internal Medicine and Psychiatry and Behavioral Sciences, and Chief, Division of Sleep Medicine, Eastern Virginia Medical School; Director, Sleep Disorders Center, Sentara Norfolk General Hospital, Norfolk; Sentara Bayside Hospital, Virginia Beach, Virgina

Assessment of Sleep-Related Erections

Terri E. Weaver, PhD, RN, CS, FAAN

Associate Professor, University of Pennsylvania School of Nursing, Philadelphia, Pennsylvania Cognition and Performance in Patients with Obstructive Sleep Apnea

John V. Weil, MD

Professor of Medicine (Cardiology), University of Colorado School of Medicine; CVP Research Lab, Denver, Colorado

Respiratory Physiology: Sleep at High Altitudes

David P. White, MD

Gerald E. McGinnis Associate Professor of Medicine, Harvard Medical School; Director, Sleep Disorders Program, Brigham and Women's Hospital, Boston, Massachusetts

Central Sleep Apnea

Amy R. Wolfson, PhD

Associate Professor of Psychology, Department of Psychology, College of the Holy Cross, Worchester, Massachusetts

Pregnancy and the Postpartum Period

Chien-Ming Yang, PhD

Assistant Professor, Department of Psychology, National Chengchi University, Taipei, Taiwan

Assessment Techniques for Insomnia

Terry Young, MS, PhD

Professor of Epidemiology, Department of Population Health Sciences, University of Wisconsin–Madison School of Medicine, Madison, Wisconsin

Systemic and Pulmonary Hypertension in Obstructive Sleep Apnea

Antonio Zadra, PhD

Associate Professor, Department of Psychology, University of Montreal; Dream and Nightmare Laboratory, Hôpital Sacré-Coeur de Montréal, Montreal, Quebec, Canada Nightmares and Other Common Dream Disturbances

Vincent P. Zarcone, Jr., MD

Emeritus Professor of Psychiatry and Behavioral Science, Stanford University School of Medicine, Stanford; Staff, Sleep Disorders Clinic, Los Altos, California Schizophrenia

Phyllis C. Zee, MD, PhD

Professor of Neurology and of Neurobiology and Physiology, Northwestern University Feinberg School of Medicine; Director, Sleep Disorders Center, Northwestern Memorial Hospital, Chicago, Illinois Circadian Disorders of the Sleep-Wake Cycle

Circulati Districts of the Steep water of

Harold Zepelin, PhD

Professor, Clinical Medicine and Psychiatry, Medical College of Ohio, Toledo, Ohio Mammalian Sleep

Marco Zucconi, MD

Associate Professor of Neurology, Vita-Salute San Raffaele University School of Medicine; Vice-Chief, Sleep Disorders Center, San Raffaele Scientific Institute and Hospital, Milan, Italy

Pain and Sleep

睡眠是人类健康不可或缺的基本生命活动。许多实例证明,睡眠障碍不仅影响我们的情绪、认知、记忆、沟通技巧,降低工作效率;严重者机体免疫力下降,还会导致多个靶器官损伤,引发或加剧消化不良、食欲减退、心脑血管疾病、糖尿病及胰岛素抵抗等代谢性疾病,甚至精神恍惚引起意外事故等。随着现代生活节奏的加快及生活方式的改变,睡眠障碍疾患导致各种健康负面影响日益突显,已成为突出的医疗及公共卫生问题。

近年来,无论在基础研究领域还是学科建设方面,睡眠医学均取得了较大进展。作为一门新兴的边缘交叉学科,睡眠医学已经形成并逐渐发展壮大,我国睡眠医学的发展已呈现良好势头。从事睡眠障碍的人员已从呼吸科、耳鼻喉科为主的医务人员,扩展到精神科、神经科、心理科、中医科、儿科、心血管内科、口腔科、老年科等多学科的医务人员。而且,各大医院纷纷建立起睡眠医学中心,组织联合攻关。但现实生活中,因对睡眠疾病缺乏足够认识和重视,以致造成严重健康后果的人,仍不在少数。美国医学发达,但有近 1800 万人遭受睡眠疾病而没有得到有效的治疗,占其人口比例 6% 左右。我国睡眠医学研究起步于 20 世纪 80 年代,至今尚未形成真正意义上的睡眠医学学科;而广大群众对睡眠健康认识又非常有限。我国 13 亿人口中,多达 42.7% 的人有不同程度的睡眠障碍,睡眠呼吸障碍患病率也达 3%~4%。然而,与发达国家相比,无论是睡眠医学基础研究还是临床诊治手段,我国均存在很大的差距。

《Principles and Practice of Sleep Medicine》是一部汇集世界各地 170 多位专家最新研究成果的巨著,在国际上享有睡眠医学"圣经"的美誉。本书第 4 版对过去 5 年里所取得的边缘学科新知识作了广泛的论述与总结,其中包括正常与非正常睡眠、时间生物学、药理学、心理生物学与做梦、睡眠障碍各种并发症以及睡眠障碍对健康产生的不良后果等,充分展示了睡眠医学这种跨学科的广度,并对所有章节的内容进行了更新与扩充。它不仅是睡眠医学专家、医学生的教科书,也以其全面性和系统性为所有临床医生、科研工作者提供有益参考,还以其广泛的影响力推动睡眠医学在世界各国的传播。一年多来,经一批从事睡眠医学医教研工作的优秀中青年技术骨干的努力,《睡眠医学理论与实践》第 4 版中译本终于如期问世了。我有幸先睹,深为该译本内容丰富、条理清晰、态度严谨、讲解生动、图文并茂赞叹不已。相信它的发行,将为我国睡眠医学发展产生巨大的推动作用,促进健康,造福民众。

广州呼吸疾病研究所所长 呼吸疾病国家重点实验室主任

2010年8月4日

《睡眠医学——理论与实践》是一部汇集世界各地 170 多位专家最新研究成果的巨著,在国际上享有睡眠医学"圣经"的美誉。

全书由睡眠医学理论与睡眠医学实践两大部分组成,共125章,并有475幅插图及近300张表框。前部分侧重介绍睡眠基础理论,包括正常睡眠和变异、睡眠机制、生理、时间生物学、药理学、生物心理学和做梦等基础研究理论,展现了一部精彩的睡眠医学发展史。这些不懈的探索和努力,为人类的睡眠疾病诊疗打开了新的通途。后部分是近年来进展迅速的睡眠相关临床医学,包括睡眠障碍、时间生物学障碍、失眠、神经性障碍、深睡眠、睡眠呼吸障碍,以及与睡眠相关的心血管疾病、女性健康、精神疾病,睡眠障碍诊断和治疗睡眠疾病的新方法。这里有困扰人们很久和为人熟知的疾病,也有一些与许多疾病息息相关却又容易被人们忽视的症状。对这些疾病的发病机制、病理生理及与社会影响密切相关的方面,本书均有详细描述。

睡眠医学发展至今已近半个世纪,尤其是最近十几年,在本书的推动下,睡眠障碍与睡眠相关疾病日益受到 医学界的重视,临床诊疗水平迈进了一个新的阶段。然而,在许多人眼里,睡眠只是生活当中一件无足轻重的事情。这种观点,不仅与科学背道而驰,给现实生活造成许许多多本来可以消除或者减弱的困扰和损失,同时也是与目前我国睡眠医学教育和宣传工作严重不足,从事相关专业的医疗队伍和机构仍很薄弱,相当一部分患者没有得到系统地治疗的情况有着紧密的关系。出于这一认识,我们深感使命在身,应当义不容辞地把这样一本造福人类的医学名著尽早地翻译出来,在中国睡眠医学领域得到广泛传播,唤起社会对睡眠这一古老的词汇的一个全新的认识和重视。

回想刚见到这本巨著,到决定把它介绍给国内的读者,并组织翻译,笔者一方面满怀着期待、兴奋,想把它介绍给更多的读者,希望让更多的人重视、了解睡眠医学,一起推动睡眠医学在中国的发展,造福患者,提高广大民众的健康水平和生活质量。另一方面,作为本书的主译,在充满激情的同时,也诚惶诚恐、如履薄冰,生怕工作中的任何一点疏漏,都会有损本书的原貌和魅力。因此,我们组织各位专家对译稿反复修改推敲,锱铢必较,至今日出版,颇有"衣带渐宽终不悔,为伊消得人憔悴"的感慨。尽管如此,由于时间仓促,仍难免存有不足,恳请读者批评指正。

本书的翻译从开始至今已经有一年多时间了,在全体编译者和出版社的共同努力下,终于使这本书呈现在 读者的面前。在本书的翻译中,得到了人民卫生出版社姬放编审的精心指导和温州医学院及附属一院领导给 予的大力支持,在此,对为本书出版默默奉献的所有工作人员表示最深的敬意和最诚挚的谢意。同时,也很感谢每一位译校者和担任秘书工作的金嵘教授、谢于鹏、胡燕副教授和吴琬、黄建静、曹嘉添以及事务工作的陈春、黄尘瑶、陈威等辛勤劳动。大家以共同的目标走到一起,希望本书能不辜负广大读者的期待。

张秀华 温州医学院附属第一医院 韩 芳 北京大学人民医院

2010年3月

《睡眠医学——理论与实践》首版迄今已逾15年了。该书的出版开创了睡眠医学领域综合性参考书的先河。 虽然当时的篇幅仅为现今第4版的1/2,关于睡眠及其昼夜节律变化基本机制的理解并不成熟,但临床治疗措施,如睡眠限制和经鼻持续正压通气等技术已初见端倪。那时候,美国大约只有350名睡眠医学专业人士及123所合格的睡眠医学中心。当时,美国睡眠医学委员会尚未成立,出席专业睡眠协会联合会议的成员也仅700人左右。

如今,在欢迎《睡眠医学——理论与实践》第 4 版问世的时候,睡眠医学已在世界范围受到广泛关注。睡眠-清醒及睡眠相关生理学知识获得指数性增长,越来越多有效的诊断和新的治疗方法也不断涌现。目前已经注册的睡眠医学专业人士扩大到了 2600 多名,合格的睡眠中心 766 所,同时参与联合专业睡眠协会人员也增加到 5000 人。本书此次的新版,恰逢医学研究生教育鉴定委员会及美国专业委员会正式承认睡眠医学为医学二级学科,因此更显瞩目。同时,《睡眠障碍国际分类》一书的第 2 版也将出版,使我们对睡眠疾病的认识和理解更加向前推进了一大步。

综上所述,旨在提示我们:睡眠医学领域发展的大好时机已经真正到来。我们的组织从仅有的芝加哥、帕洛阿尔托、纽约、里昂和博洛尼亚等少数实验室,很快发展成组织健全严密的专业卫生保健团体。这短短 20 来年,我们站在先行者肩膀上,借助他们的干劲、奉献及远见,取得了令人惊讶的成就。尽管取得了很大的成绩,我们仍很清楚前面还有许多工作要做。开拓性研究如鉴别下视丘脑分泌素神经元在控制睡眠-清醒循环中的作用、机能失调在嗜睡症中的作用等,以及睡眠疾病的诊断和治疗均有待于进一步的研究。此外,我们应该对特定疾病,如失眠和睡眠呼吸暂停方面做深入研究,发展更多有效的疗法,并予以推广。

上述所有这些挑战的重点均在教育。如果我们想在睡眠医学领域研究取得前所未有的发展,就应该找到一种途径来扩大睡眠及睡眠障碍的教育,即在小学、中学、大学、医学院校、实习医师以及执业医师中进行一系列有计划的教育。所有这些努力最终都依赖于可靠的、通用的以及易于获得的知识宝库。本书问世以来对睡眠医学专业的学生们起着如此重要的作用,无疑会在未来的日子里将更加明显。就像许多经典医学参考书籍一样,本书已经帮助界定睡眠医学成为医学专业领域的独立学科。所有信赖本书的读者均要向为睡眠医学的发展作出不懈努力和贡献的人士致敬,他们是 Kryger 博士、Roth 博士和 Dement 博士。

Michael. J. Sateia,医学博士 美国睡眠医学协会主席 精神病学教授,达特莫斯医学院 莱巴嫩,新罕布什尔州 Michael.J.Sateia@Dartmouth.edu