

# The Handbook of Wellness Medicine



# The Handbook of Wellness Medicine

Edited by

#### Waguih William IsHak

Professor and Clinical Chief of Psychiatry, Cedars-Sinai Medical Center and Clinical Professor of Psychiatry, David Geffen School of Medicine, University of California Los Angeles (UCLA), Los Angeles, California, USA





# CAMBRIDGE UNIVERSITY PRESS

University Printing House, Cambridge CB2 8BS, United Kingdom

One Liberty Plaza, 20th Floor, New York, NY 10006, USA

477 Williamstown Road, Port Melbourne, VIC 3207, Australia

314–321, 3rd Floor, Plot 3, Splendor Forum, Jasola District Centre, New Delhi – 110025, India

79 Anson Road, #06-04/06, Singapore 079906

Cambridge University Press is part of the University of Cambridge.

It furthers the University's mission by disseminating knowledge in the pursuit of education, learning, and research at the highest international levels of excellence.

www.cambridge.org
Information on this title: www.cambridge.org/9781108722056
DOI: 10.1017/9781108650182

© Cambridge University Press 2020

This publication is in copyright. Subject to statutory exception and to the provisions of relevant collective licensing agreements, no reproduction of any part may take place without the written permission of Cambridge University Press.

First published 2020

Printed in the United Kingdom by TJ International Ltd, Padstow Cornwall

A catalogue record for this publication is available from the British Library.

ISBN 978-1-108-72205-6 Paperback

Cambridge University Press has no responsibility for the persistence or accuracy of URLs for external or third-party internet websites referred to in this publication and does not guarantee that any content on such websites is, or will remain, accurate or appropriate.

Every effort has been made in preparing this book to provide accurate and up-to-date information that is in accord with accepted standards and practice at the time of publication. Although case histories are drawn from actual cases, every effort has been made to disguise the identities of the individuals involved. Nevertheless, the authors, editors, and publishers can make no warranties that the information contained herein is totally free from error, not least because clinical standards are constantly changing through research and regulation. The authors, editors, and publishers therefore disclaim all liability for direct or consequential damages resulting from the use of material contained in this book. Readers are strongly advised to pay careful attention to information provided by the manufacturer of any drugs or equipment that they plan to use.



To my love Asbasia (Hanan) Mikhail-IsHak, MD, FACEP, our sons William and Michael, our parents William Makram IsHak, MD, Nawara Yacoub Dawoud-IsHak, MD, Mr. Aboelkhair Mikhail and Mrs. Aziza Mikhail, and our siblings Rafik William IsHak, MD, FRCS, Albert Mikhail, MD, and Mrs. Lamia Maalouf. For their inspiration, encouragement, and love.



## **Contents**

List of Contributors page xi

### Part I Approach to Wellness

Part I aims at introducing the concept of wellness by detailing the definitions, screening/assessment/measurement methods, and the formulation of wellness plans.

1 Defining Wellness 1

Waguih William IsHak, Amy Mann, Vicki Manoukian, Sarin Pakhdikian, Monika Chaudhry, Angela Liu, and Ryan Bart

2 Screening and Assessment Methods for Wellness 13

Jared M. Greenberg, Enrico G. Castillo, Waguih William IsHak, and Kenneth Wells

- The Biopsychosocial
   Assessment 23
   Lubna Somjee and Sabrina A. Esbitt
- 4 **Wellness Measurement** 37 Timothy P. Melchert
- 5 **The Wellness Treatment Plan** 45 Dilani M. Perera and Jeffry Moe

# Part II From Illness to Wellness by Organ Systems/Disorders

Part II aims at detailing wellness plans for patients with major illnesses categorized by organ system/disorders. Scientific evidence for specific wellness interventions in each disease state is presented.

- The Concept of Wellness in Psychiatric and Substance-Use Disorders 57
   A. George Awad
- Neurological and Neurosurgical
   Disorders and Wellness 66
   Kevin Ding and Isaac Yang
- 8 Cardiovascular and Pulmonary Wellness 79 Waguih William IsHak and Nathalie Herrera
- Gastrointestinal System and Wellness 87
   Lori A. Robbins and Edward J. Feldman
- Wellness and the Genito-UrinarySystem 98Karyn S. Eilber and Una J. Lee
- 11 Reproductive System:
  Pregnancy and Postpartum
  Wellness 116
  Dotun Ogunyemi
- 12 Allergic, Infectious, and Immunological Processes 135 Ossama Riaz, Sylvester Orimaye, Thabit Al-Khateeb, Patrick Sodeke, Adeola Awujoola, and Karl Goodkin
- Wellness in Endocrine and Metabolic Disorders 160
   Steven Clevenger, Lidia Eskander, Tiffany Lin, and Waguih William IsHak

vii



viii

Contents

# Part III Special Populations and Special Topics

Part III aims at detailing what assessment methods and interventions could be utilized to improve wellness in each of the specific populations or settings, using scientific evidence.

- Wellness Interventions in Patients
   Living with Chronic Medical
   Conditions 177
   Alexander J. Steiner, Leslie Aguilar Hernandez, Demetria R. Pizano, Julieta
   Dascal, and Waguih William IsHak
- Wellness in Older Individuals 188Allison M. Mays, Elizabeth Whiteman, and Sonja Rosen
- 16 Wellness in Children andAdolescents 199Cassidy Zanko and Margaret L. Stuber
- 17 **Wellness in Pain Disorders** 209 Charles Louy, Chona Sweet, Gabriel Pollock, Catherine de Zagon, Zara Louy, Jeanne M. Weiss, and Dermot P. Maher
- Wellness in Cancer and Neoplastic
   Diseases 225
   Luma Bashmi and Waguih William
   IsHak
- 19 Wellness in Terminal Illness 237 Monika Chaudhry, Alex Gordon, Emile Tadros, Carrian Sun, Gabriel Tobia, and Waguih William IsHak
- Wellness Interventions in the Workplace 248Robert A. Chernoff
- Wellness Interventions for Physicians and Healthcare Professionals 258
   Matthew Goldenberg and Itai Danovitch

#### Part IV Wellness Interventions

Part IV aims at describing in detail each intervention, including the scientific evidence behind it and its practical application.

- 22 **Nutrition 271**James Lundy
- 23 Nutraceuticals and Wellness 292
  Dax Volle and Katrina DeBonis
- Pharmaceuticals and Alternatives for Wellness 302
   Thomas Parisi, Blaire Heath,
   Raymond Wen, and Waguih William IsHak
- Exercise, Dance, Tai Chi, Pilates, and Alexander Technique 315Ziya Altug
- Sleep, Rest, and Relaxation in Improving Wellness 324
   Ashley Ngor and Waguih William IsHak
- 27 Sex, Intimacy, and Well-Being 332 Kailee Marin, Gabriel Tobia, Atef Bakhoum, Lancer Naghdechi, Samuel Korouri, and Waguih William IsHak
- 28 Mindfulness, Meditation, and Yoga 345 Kayse Budd
- 29 Forgiveness, Gratitude, andSpirituality 357Sindhu A. Idicula, Natasha Thrower,and James Lomax
- 30 Positive Neuropsychology,
  Cognitive Rehabilitation, and
  Neuroenhancement 365
  Patricia A. Pimental, John B. O'Hara,
  Jennifer M. Christopher, and Anna
  M. Ciampanelli



Contents

ix

- 31 Acupuncture, Herbs, and Ayurvedic Medicine 378 Lucy Postolov and Suzanne Gilberg-
- 32 The Role of Aesthetics inWellness 394Asbasia A. Mikhail and Ashley Ngor
- 33 **Massage, Humor, and Music** 403 Soo Liang Ooi and Sok Cheon Pak
- 34 **Nature and Pets** 413 Vinathe Sharma-Brymer, Katherine Dashper, and Eric Brymer
- 35 Circadian Rhythm in the Digital Age 423 Mona Ezzat-Velinov and Mimi Guarneri
- The Arts in Health Settings: Inspirational, Educational, and Therapeutic Approaches to Wellness 435
   Amy Bucciarelli, Gail K. Ellison, Eleanor K. Sommer, and Heather Spooner
- 37 Engaging the Five Senses: Taste, Smell, See, Listen, and Touch 448 Vladimir Bokarius
- Emotional Intelligence and Its Role in Sustaining Fulfillment in Life 463
   Harry C. Sax and Bruce L. Gewertz
- 39 Psychotherapy and Positive Psychology 474
   Andrea Svicher and Eva-Lotta
   Brakemeier
- 40 **Resilience and Wellness** 484 Nathalie Herrera and Waguih William IsHak
- 41 Developing Purpose, Meaning, and Achievements 494
  Jennice Vilhauer

- 42 **Healing and Wellness** 504 Paul Dieppe, Sarah Goldingay, and Sara L. Warber
- 43 **Connection, Compassion, and Community** 515
  Rebecca Hedrick and Kristina Jones
- 44 Wellness Interventions for Chronicity and Disability 525
   Anna Klimowicz, Lorne Schussel, and Waguih William IsHak

### Part V Wellness through Optimization of Work, Love, and Play

Part V aims at integrating the above knowledge in terms of utilizing time to practically apply the interventions into one's life aspects to maintain wellness.

- Work, Love, Play, and Joie de Vivre 535
   Nicole Van Groningen, Waguih William IsHak, Shaina Ganjian, Michael Ong, and Wendelin Slusser
- Well-Being and Work-Life Balance: Cultural, Positive Psychology, and Practical Perspectives 545 Michael Bolton, Ingrid Lobben, Tom Pruzinsky, and Theodore A.
- 47 Family Relations, Friendships, and Love 553
   Shelby Alsup, Elli Weisbaum, Talya Vogel, and Daniel J. Siegel
- The Role of Leisure, Recreation, and Play in Health and
   Well-Being 565
   Laura L. Payne and Jaesung An



x Contents

49 Wellness and Whole-Person Care 573

Tom A. Hutchinson and Nora Hutchinson

50 The Personalized Wellness Life Plan 582

Waguih William IsHak, Ryan Bart, Yasmine Gohar, Natalie Lorea, Lidia Eskander, Tiffany Chang, Samantha Cohen, Katerina Furman, Piyush Peter Nayyar, and Katrina DeBonis Appendix I: Wellness Measures 598 Waguih William IsHak

Appendix II: Wellness Apps and Devices 605

> Brennan Spiegel, Jonathan A. Almendárez, Samuel Korouri, Angela Liu, and Waguih William IsHak

Index 623



## **Contributors**

#### Leslie Aguilar-Hernandez, BA candidate

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, California, USA

#### Thabit Al-Khateeb, MD

Department of Psychiatry and Behavioral Sciences, James H. Quillen College of Medicine, East Tennessee State University, Johnson City, TN, USA

#### Jonathan A. Almendárez, BA

Department of Psychiatry, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Shelby Alsup, LMFT, PhD candidate

School of Graduate Psychology, Pacific University, Hillsboro, OR, USA

#### Ziya Altug, PT, DPT, MS, OCS, CSCS

Private Practice, Los Angeles, CA, USA

#### Jaesung An, PhD candidate

Department of Recreation, Sport & Tourism, College of Applied Health Sciences, University of Illinois at Urbana-Champaign, IL, USA

#### A. George Awad, MBBCh, PhD

Department of Psychiatry and the Institute of Medical Science, University of Toronto, Humber River Hospital, Toronto, Canada

#### Awujoola Adeola M.D. MPH(c)

Department of Biostatistics and Epidemiology College of Public Health East Tennessee State University Johnson City, TN, USA

#### Atef Bakhoum, MD, MSc, PhD

National Hepatology and Tropical Medicine Research Institute, Cairo, Egypt

Freedom Drugs and HIV Program, Cairo, Egypt

#### Ryan Bart, DO, Capt USAF

United States Air Force Medical Corps

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, California, USA

#### Luma Bashmi, MA

Department of Scientific Research and Development, King Hamad University Hospital, Muharraq, Kingdom of Bahrain

#### Vladimir Bokarius, MD, PhD, MSOM

Psychiatry and Chronic Pain, San Mateo, California, USA

#### Michael Bolton, MD

Private practice in Santa Barbara, CA, USA

Department of Psychiatry, Cedars Sinai Medical Center, Los Angeles, CA, USA

#### Eva-Lotta Brakemeier, PhD, Dr Dipl Psych, Dipl Music

Institute for Psychology, Universität Greifswald, Greifswald, Germany

#### Eric Brymer, PhD

Australian College of Applied Psychology, Sydney, Australia

Institute of Sport, Physical Activity and Leisure, Leeds Beckett University, Leeds, UK

University of Cumbria, UK

χi



xii

**List of Contributors** 

#### Amy Bucciarelli, MS, ATR-BC, LMHC

Center for Arts in Medicine, University of Florida, Gainesville, FL, USA

#### Kayse Budd, MD

Private Practice in San Diego and Los Angeles, CA, and online, USA

#### Enrico G. Castillo, MD, MSHPM

Los Angeles County Department of Mental Health, Los Angeles, CA, USA

Jane and Terry Semel Institute for Neuroscience and Human Behavior at UCLA, Los Angeles, CA, USA

Department of Psychiatry and Biobehavioral Sciences, David Geffen School of Medicine at UCLA, Los Angeles, CA, USA

Center for Social Medicine and Humanities, UCLA, Los Angeles, CA, USA

#### Tiffany Chang, BS

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Monika Chaudhry, MD, FAPA

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Robert A. Chernoff, JD, PhD

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Jennifer M. Christopher, MA

Department of Behavioral Medicine, Midwestern University, College of Health Sciences, Downers Grove, IL, USA

Neurobehavioral Medicine Consultants, Ltd., Elmhurst, IL, USA

#### Anna M. Ciampanelli, MA

Department of Behavioral Medicine, Midwestern University, College of Health Sciences, Downers Grove, IL, USA

Neurobehavioral Medicine Consultants, Ltd., Elmhurst, IL, USA

#### Steven Clevenger, DO

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, CA, USA

Department of Psychiatry, Western Michigan University Homer Stryker M.D. School of Medicine, Kalamazoo, MI, USA

#### Samantha Cohen, MA

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Itai Danovitch, MD, MBA

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Julieta Dascal, MSW

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, California, USA

#### Katherine Dashper, PhD

School of Events, Tourism and Hospitality Management, Leeds Beckett University, Leeds, UK

#### Katrina DeBonis, MD

Jane and Terry Semel Institute for Neuroscience and Human Behavior at UCLA, Los Angeles, CA, USA

Department of Psychiatry and Biobehavioral Sciences, David Geffen School of Medicine at UCLA, Los Angeles, CA, USA



List of Contributors

xiii

Veterans Administration Greater Los Angeles Healthcare System, Los Angeles, CA, USA

#### Paul Dieppe, MD

University of Exeter Medical School, Exeter, UK

#### Kevin Ding, BS

Department of Neurosurgery, David Geffen School of Medicine at UCLA, Los Angeles, CA, USA

#### Karyn S. Eilber, MD

Department of Surgery, Division of Urology, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Gail K. Ellison, PhD

Center for Arts in Medicine, University of Florida, Gainesville, FL, USA

#### Sabrina A. Esbitt, PhD

Department of Family and Social Medicine, Montefiore Medical Center, Bronx, New York, NY, USA

#### Lidia Eskander, MD

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Mona Ezzat-Velinov, MD, ABFM, ABIHM, IFMCP New Roots, San Diego, CA, USA

Physician, Human Longevity Inc., San Diego, CA, USA

#### Edward J. Feldman, MD

Division of Digestive Diseases, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Katerina Furman, BA

Department of Psychiatry and Biobehavioral Sciences, David Geffen School of Medicine at UCLA, Los Angeles, CA, USA University of California, Berkeley, Berkeley, CA, USA

#### Shaina Ganjian, MD

Department of Pediatrics, Kaiser Permanente Los Angeles Medical Center, Los Angeles, California, USA

#### Bruce L. Gewertz, MD, FACS

Department of Surgery, Cedars-Sinai Medical Center, Los Angeles, CA, USA

Interventional Services, Cedars-Sinai Medical Center, Los Angeles, CA, USA

Academic Affairs, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Suzanne Gilberg-Lenz, MD, CAS

Private Practice, Beverly Hills, California, USA

Department of Obstetrics and Gynaecology, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Yasmine Gohar, MA

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Matthew Goldenberg, DO

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Sarah Goldingay, PhD

Department of Drama, University of Exeter, Exeter, UK

#### Karl Goodkin, MD, PhD

Department of Psychiatry, University of Nebraska Medical Center in Omaha, Omaha, NE, USA



xiv

**List of Contributors** 

#### Alex Gordon, BS Candidate

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Jared M. Greenberg, MD

Jane and Terry Semel Institute for Neuroscience and Human Behavior at UCLA, Los Angeles, CA, USA

Department of Psychiatry and Biobehavioral Sciences, David Geffen School of Medicine at UCLA, Los Angeles, CA, USA

VA Health Services Research and Development Center for the Study of Healthcare Innovation, Implementation, and Policy, VA Greater Los Angeles Healthcare System, Los Angeles, CA, USA

#### Nicole Van Groningen, MD

Department of Medicine, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Mimi Guarneri, MD, FACC, ABOIM

Academy of Integrative Health and Medicine, La Jolla, CA, USA

Pacific Pearl, La Jolla, CA, USA

Physician, Human Longevity Inc., San Diego, CA, USA

#### Blaire Heath, DO, PharmD, RD

Department of Psychiatry, Loma Linda University Health, Loma Linda, CA, USA

#### Rebecca Hedrick, MD

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Nathalie Herrera, MD

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Nora Hutchinson, MD

Department of Medicine, McGill University, Montreal, Quebec, Canada

#### Tom A. Hutchinson, MB, FRCP(C)

McGill Programs in Whole Person Care, Montreal, Quebec, Canada

#### Sindhu A. Idicula, MD

Menninger Department of Psychiatry, Baylor College of Medicine, Houston, TX, USA

#### Waguih William IsHak, MD, FAPA

Department of Psychiatry and Biobehavioral Sciences, David Geffen School of Medicine at UCLA, Los Angeles, CA, USA

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, California, USA

#### Kristina Jones MD, MA

Consultation-Liaison Psychiatry, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Anna Klimowicz, DO

Department of Psychiatry, Icahn School of Medicine at Mount Sinai Morningside & West, New York, NY, USA

#### Samuel Korouri, BA

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, CA, USA

University of California Los Angeles, Los Angeles, CA, USA

#### Una J. Lee, MD

Female Pelvic Medicine and Reconstructive Surgery, Section of Urology and Renal Transplantation, Virginia



**List of Contributors** 

χv

Mason Medical Center, Seattle, WA, USA

Soo Liang Ooi, BHSc (Comp Med), MMath School of Biomedical Sciences, Charles Sturt University, Bathurst, Australia

#### Tiffany Lin, MD

Department of Psychiatry, Kaiser Permanente San Jose Medical Center, San Jose, CA, USA

#### Angela Liu, BS candidate

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, California, USA

#### Ingrid Lobben, MSW, MEd

Social work, Lakewood Regional Medical Center, Lakewood, CA, USA

#### James Lomax, MD

Menninger Department of Psychiatry, Baylor College of Medicine, Houston, TX, USA

#### Natalie Lorea, BS candidate

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Charles Louy, MD, PhD, MBA

Department of Anesthesiology, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Zara Louy, MA, NBC-HWC

Private Practice, Los Angeles, CA, USA

#### James Lundy, DPT

Head 2 Toe Physical Therapy, Manhattan Beach, CA, USA

#### Dermot P. Maher, MD, MS, MHS

Department of Anesthesiology and Critical Care Medicine, Johns Hopkins School of Medicine, Baltimore, MD, USA

#### Amy Mann, LCSW

Inflammatory Bowel Disease Program, Division of Digestive Diseases, Cedars-Sinai Medical Center, Los Angeles, California, USA

#### Vicki Manoukian, MA

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, California, USA

#### Allison M. Mays MD, MAS

Section of Geriatric Medicine, Division of Internal Medicine, Department of Medicine, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Timothy P. Melchert, PhD

Department of Counselor Education and Counseling Psychology, Marquette University, Milwaukee, WI, USA

#### Asbasia A. Mikhail, MD, FACEP

Department of Emergency Medicine, Huntington Memorial Hospital, Pasadena, CA, USA

Exer Urgent Care, Pasadena and La Canada, CA, USA

#### Jeff Moe, PhD, LPC, NCC, CCMHC

Department of Counseling & Human Services, Old Dominion University, Norfolk, VA, USA

#### Lancer Naghdechi, DO

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Piyush Peter Nayyar, MD

Department of Medicine, David Geffen School of Medicine at UCLA, Los Angeles, CA, USA



xvi

**List of Contributors** 

#### Ashley Ngor, BS candidate

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, CA, USA

UCLA, Los Angeles, CA, USA

#### John B. O'Hara, PsyD

Institute of Living/Hartford Hospital, Hartford, CT, USA

Department of Medicine, University of Wisconsin School of Medicine and Public Health, Madison, WI, USA

Neurobehavioral Medicine Consultants, Ltd., Elmhurst, IL, USA

#### Dotun Ogunyemi, MD, FACOG, MFM

Obstetrics & Gynecology, California University of Science & Medicine, San Bernardino, CA, USA

#### Michael K Ong, MD, PhD

Department of Medicine, David GeffenSchool of Medicine at UCLA, Los Angeles, CA, USA

Veterans Administration Greater LosAngeles Healthcare System, Los Angeles, CA, USA

#### Sylvester Olubolu Orimaye, PhD, MPH

Department of Health Services Management and Administration College of Public HealthEast Tennessee State UniversityJohnson City, TN, USA

#### Sok Cheon Pak, PhD

School of Biomedical Sciences, Charles Sturt University, Bathurst, Australia

#### Sarin Pakhdikian, DO candidate

Western University of Health Sciences, College of Osteopathic Medicine, Pomona, CA, USA Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, California, USA

#### Thomas Parisi, DO, MA

Department of Psychiatry, Loma Linda University Health, Loma Linda, CA, USA

#### Laura L. Payne, PhD

Department of Recreation, Sport & Tourism, College of Applied Health Sciences, University of Illinois at Urbana-Champaign, IL, USA

Dilani M. Perera, PhD, LPC-S, LCDC, NCC, MAC Department of Counselor Education, Fairfield University, Fairfield, CT, USA

Patricia A. Pimental, PsyD, ABN, AAPM, FACPN Department of Behavioral Medicine, Midwestern University, Downers Grove, IL, USA

Neurobehavioral Medicine Consultants, Ltd., Elmhurst, IL, USA

#### Demetria R. Pizano, MA

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, California, USA

#### Gabriel Pollock, MD

Department of Anesthesiology, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Lucy Postolov, DACM, LAc, DiplAc

Postolova Acupuncture Group and Cannapy Health LLC, Los Angeles, CA, USA

Cedars-Sinai Medical Center, Los Angeles, CA, USA

Physicians Advisory Board for the Cancer Support Community, Los Angeles, CA, USA



List of Contributors

xvii

#### Tom Pruzinsky, PhD

Department of Psychology, Quinnipac University, Hamden, CT, USA

#### Ossama Riaz, MD

Department of Psychiatry and Behavioral Sciences, James H. Quillen College of Medicine, East Tennessee State University, Johnson City, TN, USA

#### Lori A. Robbins, MD

Division of Digestive Diseases, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Sonja Rosen, MD

Section of Geriatric Medicine, Division of Internal Medicine, Department of Medicine, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Harry C. Sax, MD

Department of Surgery, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Lorne Schussel, PhD

Department of Counseling and Clinical Psychology, Teachers College Columbia University, New York, NY, USA

#### Vinathe Sharma-Brymer, PhD

Independent researcher, Brisbane, Australia

#### Daniel J. Siegel, M.D.

Mindsight Institute, Santa Monica, CA David Geffen School of Medicine at UCLA Mindful Awareness Research Center at UCLA Los Angeles, CA, USA

#### Wendelin Slusser, MD

Semel Healthy Campus Initiative Center, UCLA, Los Angeles, CA, USA

#### Patrick Sodeke M.D. MPH(c)

Department of Biostatistics and Epidemiology College of Public Health East Tennessee State University Johnson City, TN, USA

#### Lubna Somjee, PhD

Private Practice Poughkeepsie, New York, USA

#### Eleanor K. Sommer, MSc

Center for Arts in Medicine, University of Florida, Gainesville, FL, USA

#### Brennan Spiegel, MD

Center for Outcomes Research and Education, Cedars-Sinai Medical Center, Los Angeles, CA, USA

David Geffen School of Medicine at UCLA, Los Angeles, CA, USA

#### Heather Spooner, MA, ATR-BC

Center for Arts in Medicine, University of Florida, Gainesville, FL, USA

#### Alexander J. Steiner, PsyD

Department of Psychiatry and Biobehavioral Sciences, David Geffen School of Medicine at UCLA, Los Angeles, California, USA

#### Theodore A. Stern, MD

Avery D. Weisman Psychiatric Consultation Service, Massachusetts General Hospital, Boston, MA, USA

Thomas P. Hackett Center for Scholarship in Psychosomatic Medicine, Massachusetts General Hospital, Boston, MA, USA

Office for Clinical Careers, Massachusetts General Hospital, Boston, MA, USA

Department of Psychiatry, Harvard Medical School, Boston, MA, USA

#### Margaret L. Stuber, MD

Department of Psychiatry, David Geffen School of Medicine at UCLA, Los Angeles, CA, USA

Veterans Administration Greater Los Angeles Healthcare System, Los Angeles, CA, USA



xviii

**List of Contributors** 

#### Carrian Sun, MD, PhD

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, CA, USA

David Geffen School of Medicine at UCLA Los Angeles, California, USA

#### Andrea Svicher, PhD candidate

Department of Health Sciences, University of Florence, Florence, Italy

#### Chona Sweet, DrNP, MSN, RN, FNP-C

Department of Anesthesiology, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Emile Tadros, BS, MD Candidate

Wayne State University School of Medicine, Detroit, Michigan, USA

#### Natasha Thrower, MD

Menninger Department of Psychiatry, Baylor College of Medicine, Houston, TX, USA

#### Gabriel Tobia, MD

Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, USA

#### Jennice Vilhauer, PhD

Live Forward Psychological, Inc., Los Angeles, CA, USA

#### Talya Vogel, MS, PsyD candidate

PGSP – Stanford PsyD Consortium, Palo Alto, CA, USA

#### Dax Volle, MD

Jane and Terry Semel Institute for Neuroscience and Human Behavior at UCLA, Los Angeles, CA, USA

Department of Psychiatry and Biobehavioral Sciences, David Geffen

School of Medicine at UCLA, Los Angeles, CA, USA

#### Sara L. Warber, MD

Department of Family Medicine, University of Michigan School of Medicine, Ann Arbor, MI, USA

#### Elli Weisbaum, MES, PhD candidate

Institute of Medical Science, Faculty of Medicine, University of Toronto, Toronto, Canada

Neuroscience and Mental Health Department, The Hospital for Sick Children, Toronto, Canada

#### Jeanne M. Weiss, MD

Private Practice, Santa Monica, CA, USA

#### Kenneth Wells, MD, MPH

Jane and Terry Semel Institute for Neuroscience and Human Behavior at UCLA, Los Angeles, CA, USA

Department of Psychiatry and Biobehavioral Sciences, David Geffen School of Medicine at UCLA, Los Angeles, CA, USA

VA Health Services Research and Development Center for the Study of Healthcare Innovation, Implementation, and Policy, VA Greater Los Angeles Healthcare System, Los Angeles, CA, USA

Center for Health Services and Society, UCLA, Los Angeles, CA, USA

UCLA, Jonathan Fielding School of Public Health, Los Angeles, CA, USA

#### Raymond Wen, PharmD candidate

Department of Psychiatry and Behavioral Neurosciences, Cedars-Sinai Medical Center, Los Angeles, CA, USA

#### Elizabeth Whiteman, MD

Section of Geriatric Medicine, Division of Internal Medicine, Department of Medicine, Cedars-Sinai Medical Center, Los Angeles, CA, USA



**List of Contributors** 

xix

#### Isaac Yang, MD

Department of Neurosurgery, David Geffen School of Medicine at UCLA, Los Angeles, CA, USA

#### Catherine de Zagon

Catherine de Zágon Balance + Wellbeing Naturopath Health Counseling, Rome, Italy

#### Cassidy Zanko, MD

Department of Psychiatry, David Geffen School of Medicine at UCLA, Los Angeles, CA, USA

Veterans Administration Greater Los Angeles Healthcare System, Los Angeles, CA, USA