Cultural Sensitivity and Responsiveness in Neurorehabilitation

۲

A Personalized Approach for Speech-Language Pathologists

Gloriajean L. Wallace



۲

۲

11/11/2024 1:24:48 PM



9177 Aero Drive, Suite B San Diego, CA 92123

Email: information@pluralpublishing.com Website: https://www.pluralpublishing.com

Copyright © 2025 by Plural Publishing, Inc.

Typeset in 10.5/13 Minion Pro by Achorn International, Inc. Printed in the United States of America by Integrated Books International

All rights, including that of translation, reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, recording, or otherwise, including photocopying, recording, taping, web distribution, or information storage and retrieval systems without the prior written consent of the publisher.

For permission to use material from this text, contact us by Telephone: (866) 758-7251 Fax: (888) 758-7255 Email: permissions@pluralpublishing.com

Every attempt has been made to contact the copyright holders for material originally printed in another source. If any have been inadvertently overlooked, the publisher will gladly make the necessary arrangements at the first opportunity.

Library of Congress Cataloging-in-Publication Data:

ISBN-13: 978-1-63550-032-5 ISBN-10: 1-63550-032-X

NOTICE TO THE READER

Care has been taken to confirm the accuracy of the indications, procedures, drug dosages, and diagnosis and remediation protocols presented in this book and to ensure that they conform to the practices of the general medical and health services communities. However, the authors, editors, and publisher are not responsible for errors or omissions or for any consequences from application of the information in this book and make no warranty, expressed or implied, with respect to the currency, completeness, or accuracy of the contents of the publication. The diagnostic and remediation protocols and the medications described do not necessarily have specific approval by the Food and Drug administration for use in the disorders and/or diseases and dosages for which they are recommended. Application of this information in a particular situation remains the professional responsibility of the practitioner. Because standards of practice and usage change, it is the responsibility of the practitioner to keep abreast of revised recommendations, dosages and procedures. Library of Congress Cataloging-in-Publication Data

Names: Wallace, Gloriajean L., editor.

Title: Cultural sensitivity and responsiveness in neurorehabilitation: a personalized approach for speech-language pathologists / [edited by] Gloriajean L. Wallace.

Description: San Diego, CA: Plural Publishing, Inc., [2025] | Includes bibliographical references and index. Identifiers: LCCN 2024018740 (print) | LCCN 2024018741 (ebook) | ISBN 9781635500325 (paperback) | ISBN 163550032X (paperback) | ISBN 9781635500332 (ebook)

Subjects: MESH: Neurological Rehabilitation—methods | Culturally Competent Care | Speech-Language Pathology—methods | Communication Disorders—rehabilitation | Social Determinants of Health

Classification: LCC RC424.7 (print) | LCC RC424.7 (ebook) | NLM WL 140 | DDC 616.85/5—dc23/eng/20240516 LC record available at https://lccn.loc.gov/2024018740

 (\blacklozenge)

LC ebook record available at https://lccn.loc.gov/2024018741

11/11/2024 1:24:49 PM

(�)

Contents

۲

Abo	nowledgments ut the Editor tributors	xi xiii xv
Par	t I. Introduction to Personalized Care	
1	Finding Our North Star: Introduction to Multicultural Neurogenics and Personalized Speech-Language Neurorehabilitation Care for People From Diverse Communities <i>Gloriajean L. Wallace</i>	3
2	Implicit Bias Karen C. Davis and Noma Anderson	27
3	Interprofessional Collaboration and Cultural Competence in Neurorehabilitation Jeffrey S. Hecht and Diego Ricardo Báez	41
4	The Multiculturally Competent Clinician's Toolkit to Effective Case Management and Collaborative Practices in Working With Diverse Populations <i>Maxine Langdon Starr</i>	53
5	Providing Neurorehabilitation Services to Multiethnic Adult Populations With Communication Disorders José G. Centeno	65
6	Advancing Equity in Aphasia Outcomes: An Exploration of Race and Clinical Management Considerations <i>Charles Ellis Jr., Richard K. Peach, and Patrick M. Briley</i>	79
	t II. Building a Foundation for Neurorehabilitation in Iulticultural World: Personalization Personified	
7	Preparing for Case Contact: Conducting Ethnographic Interviews Carol Westby	97

۲

v

۲

vi	Cultural Sensitivity and Responsiveness in Neurorehabilitation	
8	Speech-Language Pathologists (SLPs) Working With Interpreters and Translators in a Medical Setting <i>Henriette W. Langdon</i>	117
9	Assessment of Individuals From Culturally and Linguistically Diverse Populations <i>Gloriajean L. Wallace</i>	151
10	Management of Hearing Loss for Speech-Language Pathologists and Audiologists Who Provide Services to Neurogeriatric Populations From Diverse Communities Jay R. Lucker	167
11	Treatment of Individuals From Culturally and Linguistically Diverse Populations <i>Maria L. Muñoz</i>	195
12	A Journey Toward Communication Health and Wellness in Adult Patients and Their Families: Strategies for Communication Sciences and Disorders Practitioners and Students <i>Carolyn M. Mayo and Robert Mayo</i>	213
13	Complementary and Integrative Medicine in Adult Neurogenics Rebecca Shisler Marshall, Jacqueline Laures-Gore, and Bijoyaa Mohapatra	235
Par	t III: Specialty Neurogenics Chapters	
14	Aphasia Samantha Siyambalapitiya, Vishnu KK Nair, Frances Cochrane, and Anne J. R. Huang	261
15	Traumatic Brain Injury in Special Populations Carl A. Coelho, Alaina S. Davis, Sarah Key-DeLyria. André Lindsey, Annette T. Maruca, Jennifer Rae Myers, and Nancy P. Solomon	285
16	Cultural Considerations in the Assessment of Communication After Right Hemisphere Brain Damage Perrine Ferré, Rochele P. Fonseca, Yves Joanette, Margaret Lehman Blake, and Jamila Minga	315
17	Dementia and Mild Cognitive Impairment: Understanding the Role of Speech-Language Pathologists <i>Nidhi Mahendra</i>	331

	Contents	vii
18	Management of the Dysarthrias: Communication in a Cultural Context <i>Kathryn Yorkston, Kathryn Lent, Michael I. Burns,</i> <i>and Carolyn Baylor</i>	359
19	Cultural Responsiveness in Dysphagia Practice: Complex Systems Luis F. Riquelme and Mershen Pillay	369
	rt IV: A Sampling of Information About U.S. Census reau Racial/Ethnic Groups	
20	Blacks and the African Diaspora With Focus on African Americans: Varied Cultures, Communication Patterns, and Clinical Management Considerations <i>Gloriajean L. Wallace</i>	387
21	Hispanics: Richness in Diversity Silvia Martinez	419
22	Exploring the Diverse Communication and Cultural Landscape of Chinese Americans and Asian Americans: Implications for Health Care <i>Anthony Pak-Hin Kong and Li-Rong Lilly Cheng</i>	449
23	American Indians and Alaska Natives: Culture, Communication, and Clinical Considerations <i>Ella Inglebret and Rhonda Friedlander</i>	459
24	White Americans: Culture, Communication, and Clinical Considerations Angela Ciccia and Steven J. Cloud	505
	t V: Intersectionality: Confounding Effect of Factors That se Unique Challenges to Care	
25	Ethical Perspectives for Serving 2SLGBTQIA+ Individuals With Neurogenic Considerations <i>Ruchi Kapila and Haley Fulk</i>	519
26	Implementing Culturally Responsive and Trauma-Informed Care in Acquired Cognitive–Communication Disorders: Speech-Language Pathology Considerations for Marginalized and Underserved Populations <i>Catherine Wiseman-Hakes, Kathryn Y. Hardin, and Maya Albin</i>	555

viii Cultural Sensitivity and Responsiveness in Neurorehabilitation	
27 The Deaf Community: Culture, Communication, and Neurorehabilitation <i>Kristen K. Maul, Daniel Maier, and Laura Curtin</i>	579
Part VI: Contributions From Educators and a Look at Neurorehabilitation Care Trends Within the U.S.	
28 From Ally to Accomplice: Dismantling White Supremacy Culture in the Classroom and the Workplace (Observations About DEI From an Academic's Perspective) <i>Diego Ricardo Báez</i>	609
29 Academic and Clinical Training to Promote Culturally Sensitive and Responsive Speech-Language Pathology Neurorehabilitation Care <i>Gloriajean L. Wallace</i>	617
30 Speech-Language Pathology Neurorehabilitation Service Trends for People From Diverse Communities: Evidence From the American Speech-Language-Hearing Association's National Outcomes Measurement System (NOMS) <i>Robert C. Mullen and Gloriajean L. Wallace</i>	631
Part VII: Interesting Case Scenarios and Practical Clinical Discussions About SLP Neurorehabilitation for People From Diverse Communities	
31 Collaboration Between a Medical Speech-Language Pathologist and an Interpreter: A Simulated Case Illustration (With Video) <i>Henriette W. Langdon and Maxine Langdon Starr</i> (<i>With Joel Hernandez in the Role of the Patient</i>)	641
32 Virtual Aphasia Group Treatment in a Life Participation Setting (With Video) <i>Suzanne Coyle and Brooke Hatfield</i>	645
33 Cultural Adaptation of Cognitive Stimulation Therapy for a Community of Black Older Adults in North St. Louis (With Video) <i>Whitney Anne Postman, Hisako Matsuo, Kailin Leisure, Rebecca Poche, Tayl Slay, Sydney Elizondo, and Elena Everhart</i>	649 a
34 . Co-Creating a Culturally Responsive and Trauma-Informed Approach for Speech-Language Pathologists Working With	665

Conten	ts ix
Adults With Acquired Neurogenic Cognitive–Communication Disorders: A Case Narrative (With Video) <i>Catherine Wiseman-Hakes, Roxanne Riess, and Maya Albin</i>	
35 What to Do When Mom Has a Hearing Loss? The Life-Changing Benefits of Hearing Aids for an African American Nonagenarian (With Video) <i>Gloriajean L. Wallace and Gloria E. Valencia</i>	683
36 Complex Management Considerations for a Multilingual, Multimodal Stroke Survivor With Aphasia From the Deaf Community (With Video) <i>Kristen K. Maul, Daniel Maier, and Laura Curtin</i>	697
37 American Samoa and the Military: A Case Demonstrating Where Cultural, Language, Rural Geographic Location, and Military Experience Intersect <i>Pauline Mashima and Shari Goo-Yoshino</i>	703
38 Unauthorized Immigration Status and Speech-Language Pathology Services: A Case Scenario <i>Wendy Burton and Maria Carolina Amaya</i>	709
39 "A" is for Amazing: A Survivor's Journey Through Stroke Aphasia, and COVID-19 (With Video) <i>Gloriajean L. Wallace and Patrick E. Carey</i>	717
40 Discussion About Neurorehabilitation From the Voices of International Neurorehabilitation Visionaries <i>Gloriajean L. Wallace, Isamu Shibamoto, Tamaki Onishi,</i> <i>Pauline Mashima, Gerald C. Imaezue, Jacqueline Stark,</i> <i>Sonia Fredericks, and Wan-Ming Amy Wong</i>	723
 Epilogue: Nothing About Us Without Us: People Who Have Neurologically-Based Communication, Cognitive, and Swallowing Disorders Share Their Thoughts (With Video) Interviewer Gloriajean L. Wallace, With Interview Participants (in Order of Appearance): Jenell Gordon, Tara Green, Rick Mason, Kelvin Williams, Mar Fernanda Corral Agudelo, Sofia Irene Bauzá, Omar Bordachar, Carolina Ul Sofia Carrasco, Alfredo Díaz, Gloria E. Valencia (Lead Spanish Language Interpreter) and Maria Piti Clarici (Spanish Language Interpreter) 	ía

Interpreter), and Maria Biti Clerici (Spanish Language Interpreter)

۲

Index

783

۲



About the Editor

 $(\mathbf{0})$



()

Gloriajean L. Wallace, MA, PhD, MDiv, ASHA-CCC, ANCDS-BC, is a tenured Catherine Brewer Smith Distinguished Professor of Communication Disorders and Sciences at Western Carolina University, in Cullowhee, North Carolina. At the age of 7 years, she decided to become a speech-language pathologist (SLP) after reading about the impact that Annie Sullivan had on Helen Keller's life, and then attending a play with her parents where both characters came to life.

Dr. Wallace obtained a BS from Miami University in Oxford, Ohio; an MA from the University of Colorado, Boulder; a PhD from Northwestern University in Evanston, Illinois; and postdoctoral training at the University of Arizona, Tucson and the Boston V.A. Dr. Wallace has had an illustrious career that spans 40 plus years, during which time she has served as Professor, Endowed Professor, Department Chairperson and Graduate Program Director, Medical SLP and Neurorehabilitation Coach and Advocate for people with neurogenic disorders, and Mentor to junior faculty and students (with a desire to help fill the speechlanguage pathology pipeline with the best and brightest future leaders).

Dr. Wallace specializes in neurogenics, with a focus on adult aphasia, and a special interest in people from underserved communities. This is her third neurogenics book. Dr. Wallace's current research includes the development of an assessment *system*, the Reliable Assessment Inventory of Neuro-Behavioral Organization

xiv Cultural Sensitivity and Responsiveness in Neurorehabilitation

۲

(RAINBO), designed for people from diverse backgrounds who have communication, cognitive, and swallowing impairments. It is her vision that the RAINBO will support the selection of evidence-based treatments and prediction of life participation outcomes.

Dr. Wallace is an ASHA Fellow, Board Certified by the Academy of Neurologic Communication Disorders and Sciences (ANCDS), and licensed to practice in North Carolina, California, Ohio, and Hawai'i. She is a recipient of the ANCDS Special Recognition for Leadership and Contributions to Neurogenics Award, and the National Black Association for Speech-Language-Hearing Association (NBASLH) Scholar Mentor Award. Dr. Wallace, is ordained as both an Interfaith and a Christian Minister, with extensive Chaplaincy training in medical contexts.

(�)

()

Contributors

()

Maya Albin, MSc, Reg. CASLPO

Assistant Clinical Professor (Adjunct) School of Rehabilitation Science McMaster University Hamilton, Ontario, Canada *Chapters 26 and 34*

María Fernanda Corral Agudelo

Bogotá, Colombia *Epilogue*

Maria Carolina Amaya, CBIS

Healthcare Interpreter and Translator Rancho Los Amigos National Rehabilitation Center Downey, California *Chapter 38*

Noma Anderson, PhD, CCC-SLP

Dean, College of Nursing and Health Sciences Professor, Department of Communication Sciences and Disorders The University of Vermont Burlington, Vermont *Chapter 2*

Diego Ricardo Báez, MFA

Assistant Professor of Multidisciplinary Studies Social and Behavioral Science Department Harry S. Truman College Chicago, Illinois *Chapters 3 and 28*

Sofia Irene Bauzá,

Political Science Specialist Argentina *Epilogue*

Carolyn Baylor, PhD, CCC-SLP

Associate Professor Department of Rehabilitation Medicine University of Washington Seattle, Washington *Chapter 18*

Margaret Lehman Blake, PhD, CCC-SLP

Professor Department of Communication Sciences and Disorders University of Houston Houston, Texas *Chapter 16*

Omar Bordachar

Argentina *Epilogue*

Patrick M. Briley, MS, CCC-SLP

Clinical Research Professor Department of Communication Sciences and Disorders East Carolina University Greenville, North Carolina *Chapter 6*

Michael I. Burns, PhD, CCC-SLP

Associate Teaching Professor Department of Speech and Hearing Sciences University of Washington (\bullet)

()

Seattle, Washington Chapter 18

Wendy Burton, MA, CCC-SLP

Clinical Instructor of Speech-Language Pathology California State University, Long Beach Long Beach, California *Chapter 38*

Patrick E. Carey

Software Engineer Cincinnati, Ohio *Chapter 39*

Sofia Carrasco

Bogotá, Colombia *Epilogue*

José G. Centeno, PhD, CCC-SLP Professor School of Health Professions Rutgers University

Newark, New Jersey Chapter 5

Li-Rong Lilly Cheng, PhD

Professor/DirectorSan Diego State University San Diego, California *Chapter 22*

Angela Ciccia, PhD, CCC-SLP Professor Communication Sciences Program Department of Psychological Sciences Case Western Reserve University Cleveland, Ohio *Chapter 24*

María Beatriz Clerici Licenciada en Fonoaudiologia Mundo & Afasia Buenos Aires, Argentina *Epilogue*

Steven J. Cloud, PhD, CCC-SLP

Director and Professor School of Speech and Hearing Sciences University of Southern Mississippi Hattiesburg, Mississippi *Chapter 24*

Frances Cochrane, PhD, BSpPath (Hons IIA), GCertEd (Academic Practice), CPSP Senior Lecturer in Speech Pathology

College of Healthcare Sciences James Cook University Townsville, Australia *Chapter 14*

Carl A. Coelho, PhD

Professor Emeritus Department of Speech, Language, and Hearing Sciences University of Connecticut Storrs, Connecticut *Chapter 15*

Suzanne Coyle, MA, CCC-SLP Executive Director Stroke Comeback Center Vienna, Virginia *Chapter 32*

Laura Curtin, MS, CCC-SLP

Speech Language Pathologist The Learning Center for the Deaf Framingham, Massachusetts *Chapters 27 and 36*

Alaina S. Davis, PhD, CCC-SLP/L, CBIST

Associate Professor and Chair Department of Communication Sciences and Disorders Howard University Washington, DC *Chapter 15*

Karen C. Davis, PhD, CCC-SLP Associate Professor ()

Department of Health and Human Performance Speech-Language Pathology and Audiology Program Middle Tennessee State University Murfreesboro, Tennessee *Chapter 2*

Alfredo Díaz

Toledo, Spain *Epilogue*

Sydney Elizondo, MD

Pediatric Resident in Child Neurology Saint Louis University School of Medicine St. Louis, Missouri *Chapter 33*

Charles Ellis, Jr., PhD, CCC-SLP Professor and Chair Department of Speech, Language, and Hearing Sciences College of Public and Health Professions University of Florida Gainesville, Florida *Chapter 6*

Elena Everhart, MS, CCC-SLP

Speech-Language Pathologist Powerback Rehabilitation Chicago, Illinois *Chapter 33*

Perrine Ferré, PhD, MPO

Post-Doctoral Student McGill University Research Coordinator Hôpital de Réadaptation Villa Medica Montréal, Québec, Canada *Chapter 16*

Rochele P. Fonseca, PhD Professor Department of Medicine Universidade Federal de Minas Gerais Belo Horizonte, Brazil *Chapter 16*

()

Sonia Fredericks, BSc, SLP

Speech-Language Pathologist Ministry of Health, Rehabilitation, and Disabilities Service Georgetown, Guyana, South America *Chapter 40*

Rhonda Friedlander, SLP

Speech-Language Pathologist One Claw Speech Therapy Omak, Washington *Chapter 23*

Haley Fulk, MA, CCC-SLP, CBIS

Speech-Language Pathologist Frazier Rehabilitation Institute Louisville, Kentucky *Chapter 25*

Shari Goo-Yoshino, MS, CCC-SLP

Adjunct Instructor Communication Sciences and Disorders John A. Burns School of Medicine University of Hawai'i at Manoa Honolulu, Hawai'i *Chapter 37*

Jenell Gordon, MA, CCC-SLP (Ret.)

Norfolk Public Schools Virginia Beach, Virginia *Epilogue*

Tara Green, BS

Senior Systems Support Administrator Information Technology Columbia, South Carolina *Epilogue*

Kathryn Hardin, PhD, CCC-SLP, CBIST Associate Professor Speech, Language and Hearing Sciences Department

 (\bullet)

 $(\mathbf{0})$

Metropolitan State University of Denver Denver, Colorado *Chapter 26*

Brooke Hatfield, MS, CCC-SLP, CAE

Senior Director, Health Care Services in Speech-Language Pathology American Speech-Language-Hearing Association Rockville, Maryland *Chapter 32*

Jeffrey S. Hecht, MD, FAAPMR

Associate Professor Chief, Division of Surgical Rehabilitation Department of Surgery University of Tennessee Grad School of Medicine Knoxville, Tennessee *Chapter 3*

Anne J. R. Huang, MSpPathSt, MCHAM, BSc/BA, CPSP

Speech Pathologist and Research Assistant Brisbane, Australia *Chapter 14*

Gerald C. Imaezue, PhD

Assistant Professor Department of Communication Sciences and Disorders University of South Florida Tampa, Florida *Chapter 40*

Ella Inglebret, PhD, CCC-SLP

Associate Professor Emeritus Washington State University Spokane, Washington *Chapter 23*

Yves Joanette, PhD, FCAHS

Vice-Recteur Adjoint Recherche, Découverte, Création et Innovation Professeur Titulaire, Faculté de Médicine Directeur de Laboratoire, CRIUGM Member and Former Chair, World Dementia Council Montréal, Québec, Canada *Chapter 16*

Ruchi Kapila, MS, CCC-SLP

CEO and Speech-Language Pathologist Kapila Voice and Speech Services, A Professional Corporation Hayward, California *Chapter 25*

Sarah Key-DeLyria, PhD, CCC-SLP

Former Associate Professor of Speech-Language Pathology Portland State University Portland, Oregon *Chapter 15*

Anthony Pak-Hin Kong, PhD

Unit Head, Director Academic Unit of Human Communication, Learning and Development (HCLD), Aphasia Research and Therapy (ART) Laboratory University of Hong Kong Hong Kong *Chapter 22*

Henriette W. Langdon, EdD, H-CCC, BCS-CL Professor Emerita

San José University San José, California Bilingual Speech and Language Pathologist Sunflower Therapies Owner/Partner Rancho Cucamonga, California *Chapters 8 and 31*

Jacqueline Laures-Gore, PhD

Associate Professor Communication Sciences and Disorders Program ()

Contributors xix

Georgia State University Atlanta, Georgia *Chapter 13*

Kathryn Lent, PT, PhD, DPT

Assistant Professor Oregon State University-Cascades Bend, Oregon *Chapter 18*

Kailin Leisure, MA, CCC-SLP

Speech-Language Pathologist SSM Health SLUCare Physician Group St. Louis, Missouri *Chapter 33*

André Lindsey, PhD, CCC-SLP

Assistant Professor of Speech-Language Pathology Nevada State University Henderson, Nevada *Chapter 15*

Jay R. Lucker, EdD

Licensed Audiologist and Speech Language Pathologist Professor Emeritus Department of Communication Sciences and Disorders Howard University Washington, DC *Chapter 10*

Nidhi Mahendra, PhD, CCC-SLP Professor Department of Head and Neck Surgery and Communication Sciences Division Chief, Speech-Language Pathology Duke University Durham, North Carolina *Chapter 17*

Daniel Maier, MS, MA, PhD Lecturer Council of the Humanities and the Program in Linguistics Princeton University Norristown, Pennsylvania *Chapters 27 and 36*

 (\blacklozenge)

Rebecca Shisler Marshall, PhD, CCC-SLP

Associate Professor Department of Communication Sciences and Special Education University of Georgia Atlanta, Georgia *Chapter 13*

Silvia Martinez, EdD, CCC-SLP

Professor Emeritus Department of Communication Sciences and Disorders Howard University Washington, DC *Chapter 21*

Annette T. Maruca, PhD, RN, PMH-BC,

CNE, CCHP Associate Dean of Academic Affairs and Professor University of Connecticut Storrs, Connecticut *Chapter 15*

Pauline Mashima, PhD, CCC-SLP

Associate Professor, Graduate Program Chair Communication Sciences and Disorders John A. Burns School of Medicine University of Hawai'i at Mānoa Honolulu, Hawai'i *Chapters 37 and 40*

Rick Mason

Epilogue

()

Hisako Matsuo, PhD

Professor of Research Methodology and Sociology Department of Sociology and Anthropology

xx Cultural Sensitivity and Responsiveness in Neurorehabilitation

 $(\mathbf{\Phi})$

Saint Louis University St, Louis, Missouri *Chapter 33*

Kristen K. Maul, PhD, CCC-SLP

Speech-Language Pathologist LPK Speech and Language Rehabilitation Services, Inc. Greenbelt, Maryland *Chapters 27 and 36*

Carolyn M. Mayo, PhD, CCC-SLP

Executive Director Communications, Research, Evaluations, and Wellness Specialists, LLC (CREWS, LLC) Burlington, North Carolina *Chapter 12*

Robert Mayo, PhD, CCC-SLP, FASHA Professor

Department of Communication Sciences and Disorders, School of Health and Human Sciences University of North Carolina at Greensboro Greensboro, North Carolina *Chapter 12*

Jessica McFadden, MA, CCC-SLP

Speech-Language Pathologist PRC-Saltillo Regional Consultant Augusta County, Virginia *Epilogue*

Jamila Minga, PhD, CCC-SLP

Assistant Professor Department of Head and Neck Surgery and Communication Sciences Department of Neurology, Stroke, and Vascular Neurology Division Affiliate Faculty Member Center for Cognitive Neurosciences Department of Psychology and Neuroscience Duke University School of Medicine Durham, North Carolina Chapter 16

Bijoyaa Mohapatra, PhD, CCC-SLP

Associate Professor Department of Communication Sciences and Disorders Louisiana State University Baton Rouge, Louisiana *Chapter 13*

Robert C. Mullen, MPH

Senior Director National Center for Evidence-Based Practice in Communication Disorders American Speech-Language-Hearing Association Rockville, Maryland *Chapter 30*

Maria L. Muñoz, PhD, CCC-SLP

Professor Department of Communication Sciences and Disorders University of Redlands Redlands, California *Chapter 11*

Jennifer Rae Myers, PhD, MS, CCC-SLP

Assistant Professor Department of Hearing and Speech Sciences University of Maryland College Park, Maryland Research Communication Scientist National Military Audiology and Speech Pathology Center Walter Reed National Military Center Bethesda, Maryland *Chapter 15*

Vishnu KK Nair, PhD

Lecturer in Speech and Language Therapy School of Psychology and Clinical Language Sciences (\bullet)

Contributors xxi

University of Reading Reading, United Kingdom *Chapter 14*

Tamaki Onishi, BA, SLHT

Professor, Director Post Graduate Course, Diploma Program in Communication Sciences and Disorders Osaka Health Science University Osaka, Japan *Chapter 40*

Richard K. Peach, PhD, CCC-SLP

Professor Emeritus Department of Communication Disorders and Sciences Rush University Medical Center Chicago, Illinois *Chapter 6*

Mershen Pillay, DEd, HPCSA, NZSTA, ASHA

Associate Professor, Audiologist and Speech-Language Pathologist University of KwaZulu-Natal and Massey University Durban, South Africa and Auckland, New Zealand *Chapter 19*

Rebecca Poche, MA, CCC-SLP

Speech-Language Pathologist Our Lady of the Lake Children's Health St. Louis, Missouri *Chapter 33*

Whitney Anne Postman, PhD, CCC-SLP Professor DePaul University Chicago, Illinois *Chapter 33*

Roxanne Riess, BA Brain Injury Society of Toronto Toronto, Ontario, Canada *Chapter 34*

()

Luis F. Riquelme, PhD, CCC-SLP, BCS-S, F-ASHA

Director, Rehabilitation and Speech-Language Pathology Maimonides Health Brooklyn, New York Associate Professor, Neurosciences and Learning Universidad Católica del Uruguay Montevideo, Uruguay *Chapter 19*

Isamu Shibamoto, PhD, SLHT

Professor, Director
Department of Speech, Language, and Hearing Sciences
Graduate Program of Rehabilitation Sciences
Seirei Christopher University
Hamamatsu, Shizuoka, Japan
Adjunct Professor
Communication Sciences and Disorders
John A. Burns School of Medicine
University of Hawai'i at Manoa
Honolulu, Hawai'i
Chapter 40

Samantha Siyambalapitiya, PhD, BSpPath (Hons I), BSc, CPSP

Senior Lecturer in Speech Pathology School of Health Sciences and Social Work Griffith University Gold Coast, Australia *Chapter 14*

Tayla Slay, MS, CCC-SLP Kansas City, Missouri *Chapter 33*

()

Nancy Pearl Solomon, PhD, CCC-SLP Professor Uniformed Services University of the Health Sciences ()

xxii Cultural Sensitivity and Responsiveness in Neurorehabilitation

 $(\mathbf{\Phi})$

Research Speech-Language Pathologist Walter Reed National Military Medical Center Bethesda, Maryland Adjunct Professor University of Maryland, College Park College Park, Maryland *Chapter 15*

Jacqueline Stark, PhD

Clinical Linguist International Federation on Ageing Vienna, Austria *Chapter 40*

Maxine Langdon Starr, PhD, LMFT, PPSC

Owner/Partner, Sunflower Therapies, Adjunct Faculty UMass Global and National University Rancho Cucamonga, California *Chapters 4 and 31*

Carolina Ulloa

Afasia Vital Columbia *Epilogue*

Gloria E. Valencia, AuD, CCC-A, CH-TM Clinical Audiologist Bilingual Audiology Consultant

Winter Park, Florida *Chapter 35 and Epilogue*

Gloriajean L. Wallace, PhD, MDiv, CCC-SLP, BC-ANCDS, FASHA

Catherine Brewer-Smith Distinguished Professor Department of Communication Sciences and Disorders College of Health Sciences Western Carolina University Cullowhee, North Carolina Professor Emerita Department of Communication Sciences and Disorders College of Allied Health Sciences and Disorders University of Cincinnati Cincinnati, Ohio Adjunct Graduate Professor Department of Communication Sciences and Disorders John Burns Scholl of Medicine University of Hawai'i Honolulu, Hawai'i *Chapters 1, 9, 20, 29, 30, 35, 39, and 40*

Carol Westby, PhD, CCC-SLP

Speech-Language Pathologist Bilingual Multicultural Services Albuquerque, New Mexico *Chapter 7*

Kelvin Williams, BS

Business Management Sales Support Specialist Baton Rouge, Louisiana *Epilogue*

Catherine Wiseman-Hakes, PhD, Reg. CASLPO

Assistant Clinical Professor Speech-Language Pathology Program School of Rehabilitation Sciences McMaster University Hamilton, Ontario, Canada *Chapters 26 and 34*

Wan-Ming Amy Wong, CCC-SLP

Speech-Language Pathologist Monterey Park, California *Chapter 40*

Kathryn Yorkston, PhD

Professor Emeritus Department of Rehabilitation Medicine University of Washington Seattle, Washington *Chapter 18*

Finding Our North Star: Introduction to Multicultural Neurogenics and Personalized Speech-Language Neurorehabilitation Care for People From Diverse Communities

 (\mathbf{r})

Gloriajean L. Wallace

Definition of Multicultural Neurogenics

This compendium is a follow-up to a book edited 27 years ago on the topic of multicultural neurogenics (Wallace, 1997). Multicultural neurogenics refers to the study of many cultures and the impact those cultures may have on the design, implementation, and life participation outcomes for people with neurogenic communication, cognitive, and swallowing disorders. As the term "multicultural" (many cultures) implies, there are a myriad of possible cultural group memberships, including race, ethnicity, culture, language use, preferred communication style (e.g., oral communication or sign language), gender orientation, age, ability, religious preference, country of origin, immigration

status, and consideration of intersectionality across these categories and more. The term multicultural neurogenics is grounded firmly in the World Health Organization's International Classification of Functioning, Disability and Health model (WHO ICF), a psychosocial model where environmental support is valued and case-centered care is at the heart of all that is considered (WHO, 2001; Threats, 2012). Attentiveness to intragroup contrasts and idiosyncratic differences-unique to each person-are equally important to identify, recognize, and consider. Although some of the terminology used to discuss multicultural neurogenics has changed over the years, the essential points remain the same. For example, concepts such as cultural sensitivity and responsiveness (title of this book); diversity, equity, and inclusion (DEI);

4 Cultural Sensitivity and Responsiveness in Neurorehabilitation

intersectionality; and implicit bias are discussed in nearly every chapter, beginning with indepth coverage of these topics by Davis and Anderson in Chapter 2 of this book. All groups recognized by the United States Census Bureau are considered, with attention to the influence of multiple identities (intersectionality) on the design and implementation of neurorehabilitation care. Becoming aware of how to personalize care for people from minoritized communities provides a framework that can enhance care for all cases. In the face of limited available research to guide neurorehabilitation care of people from diverse communities, diversity matters warrant our attention-"Diversity Matters."

The Current Volume Leading to Our North Star

This current volume has truly been a labor of love, with the assistance of over 100 contributors. The final book manuscript presented here is different in breadth and scope from what was originally intended. This was by necessity, given the need for content expansions over the course of several years as we forged through an international pandemic, quickly changing advances in technology, national and international sociopolitical crises, and ramifications these factors have had on the speech-language pathology neurorehabilitation care that providers were and continue to be faced with today. With these things in mind, this book has been developed, revised, expanded, and then revised again, culminating in the most comprehensive presentation of multicultural neurogenics information that is available at this time. It is my vision that in 10 years or so, the next generation of neurogenics leaders will have expanded upon information presented here to support even more equitable neurorehabilitation care for people with neurogenic disorders who are from diverse communities. For now, this volume is intended to serve as an "A to Z" compendium for the reader.

For now, you are invited to embrace and allow material here to serve as your neurorehabilitation diversity North Star.

North Star Vision for the Book

The North Star (also known as Polaris) marks the location of the sky's northernmost pole around which the entire northern sky rotates. Because of its constant presence, the North Star can always be counted on to help locate the direction of true North.

- In ancient Egypt, the North Star was associated with the god Thoth, who was believed to represent wisdom and guidance.
- In Norse mythology, the North Star was a "jewel on the end of a stake"; a jewel that the gods had stuck through the universe for the entire sky to revolve around.
- According to people from the Mongolian Empire, the North Star was a peg that held the world together.
- Across time, both navigators by sea and travelers by land—in many demographic groups all over the world—used the North Star to determine location; especially helpful when away from the comfort and familiarity of home. The word for Polaris (meaning *steadfast*

star), for example, is Hōkūpa`a in the Hawaiian language.

For African slaves in the United States, the North Star represented the map to freedom.

Metaphorically, a North Star is what inspires and influences us.

From a speech-language pathology (SLP) perspective, it is our ethos; the spirit of our professional culture that drives us with relentless passion to be the best that we can be as we serve the diverse clientele that we are graced to serve. It is with this spirit that the more than 100 contributors to this book and I invite you to join in on the journey where neurorehabilitation specialists and people with neurogenic disorders navigate along-side you with the hope that you will achieve greater knowledge, understanding, cultural sensitivity, responsiveness, and empowerment to provide stellar, personalized, and therefore equitable care for all.

Who We Are: A Snapshot of the ASHA Membership

Race and Ethnicity 1972–1984, 2013–2022

In 1972, 1% of the ASHA membership reported that they were from a minoritized group (Cole, 1985). Out of a total ASHA membership of 15,554 persons at that time, 176 reported as Black, 11 as Asian or Pacific Islander, 13 as Hispanic, and two as American Indian or Native Alaskan (Cole, 1985). Those are shocking figures. The overall percentage for minority ASHA membership increased to 2% in 1978 and then again in 1983 to 3.6%, when 650 reported race as Black, 345 reported race as Asian or Pacific Islander, 312 reported race as Hispanic, and 171 reported race as American Indian or Alaska Native (Cole, 1985; refer to Table 1–1).

Table 1–1. Data Page	: Racial/Eth	nic Demogr	raphy of the	e ASHA Mei	mbership (0	Cole, 1985)
Year	1972	1976	1978	1980	1982	1984
Whites	15,554	24,180	32,019	35,327	37,022	39,828
Blacks	176	164	271	442	475	650
Asians (or Pacific Islanders)	11	74	86	161	204	345
Hispanics	13	40	71	135	194	312
American Indians (or Alaskan Natives)	2	8	17	31	49	171
Total ASHA Members	15,756	24,466	32,464	36,096	37,944	41,306
Total and	202	286	445	769	922	1,478
Percent Minority	1%	1%	2%	2%	2%	3.6%

Source: Data from 1978 to 1984 are from the ASHA Membership Update Survey and Annual Count Report. Data from 1972 to 1976 are from the ASHA Voluntary Ethnicity/Sex Questionnaire.

Note: Includes nonresponses to race/ethnicity items. For 1976, it also includes responses to the survey items "mixed ethnicity" and "other."

(�)

6 Cultural Sensitivity and Responsiveness in Neurorehabilitation

The number of racially and ethnically diverse ASHA members has continued to increase, although only to a small extent from 2013 to 2022 (ASHA, 2022). This is evidenced by demographic data self-reported for race (refer to Table 1–2) and ethnicity (refer to Table 1–3) provided by ASHA members and nonmembers who were certified in speech-language pathology only during this time (ASHA, 2012–2023).

Race and Ethnicity Reported by ASHA Special Interest Group 2 Members (Neurogenics SIG)

It was of great interest to explore the racial and ethnic makeup of speech-language pathologists (SLPs) who specialize in neurogenics, the focus of this book. However, at present, there is no direct link between the area of speech-language pathology specialization and racial/ethnic identity. Many neurogenics specialists are members of ASHA SIG 2, which is the neurogenicsdesignated Special Interest Group. However, not all neurogenics specialists are members of ASHA SIG 2, and it is not a requirement to be a member of ASHA SIG 2 to specialize in neurogenics. It was judged that information about the racial and ethnic composition of ASHA SIG 2 would, at minimum, provide a general sense of diversity representation in neurogenics. Membership data presented in Table 1-4 highlights that a low percentage of persons from minoritized groups are members of ASHA SIG 2 (ASHA, 2023). This is despite a slight increase over the past 11 years (2012-2023) in the number of SIG 2 members who recorded their race as non-White as compared to the number who identified as White. It is important to note that the observed slight increase is for the

total number of non-White SIG 2 members (Black, Hispanic/Latino, Asian, and Native people groups), and therefore is not likely to represent a substantial increase for any one subgroup. For confidentiality reasons, it was not possible for ASHA to retrieve and send data for specific racial subgroups, which would have provided information to clarify whether number increases occurred in specific groups or simply in the overall number of persons (because of small subgroup changes).

Information about the small number of ASHA SIG 2 members who selfidentified as Hispanic/Latino ethnicity as compared to non-Hispanic/Latino ethnicity from 2012–2023 is presented in Table 1–5 (ASHA, 2023).

Also of interest is a small—but not dramatic—increase in the number of ASHA SIG 2 members who identified as having Hispanic/Latino ethnicity during this time.

As noted earlier, not all neurogenics specialists join a special interest group, so there may in fact be people with racially and ethnically diverse identities who are not members of ASHA SIG 2. However, the low number of ASHA 2 SIG members who identify as being from a racially minoritized group and the low number of ASHA SIG 2 members who identify as being of Hispanic/Latino ethnicity suggest that efforts are needed to attract, recruit, and support neurogenics specialists of color (Black, Hispanic/Latino, Asian, and Native people groups). This includes expanded opportunities to serve in leadership roles.

Given the small number of racially and ethnically diverse persons who likely specialize in neurogenics, it is imperative that all clinicians, regardless of race or ethnicity, view their role as an important one that is critical for establishing personalized, equitable care for all neurogenics cases seen.

Table 1–2. Demographic Profiles for Race, as Self-Reported by ASHA Members and Nonmembers Certified in Speech-Language Pathology Only 2013–2022	as Self-Re	ported by A	SHA Mem	oers and N	onmembers	Certified i	n Speech-L	anguage P	athology O	, ylr
Year	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Total Reporting =	138,433	144,253	150,468	156,254	162,473	168,604	175,025	181,628	188,143	193,799
Total Reporting for Race =	110,688	111,845	112,753	113,282	143,291	147,474	150,633	181,628	166,466	168,359
American Indian or Alaska Native	.3%	.3%	.3%	.3%	.3%	.3%	.3%	.3%	.3%	.3%
Asian	2.1%	2.2%	2.2%	2.3%	2.5%	2.5%	2.6%	2.8%	2.9%	3.0%
Black or African American	3.4%	3.5%	3.6%	3.6%	3.5%	3.5%	3.6%	3.6%	3.6%	3.7%
Native Hawaiian or Other Pacific Islander	.2%	.2%	.2%	.2%	.2%	.2%	.2%	.2%	.2%	.2%
White	92.6%	92.5%	92.4%	92.3%	92.2%	92.1%	91.9%	91.8%	91.6%	91.4%
Multiracial	1.4%	1.4%	1.3%	1.3%	1.3%	1.3%	1.4%	1.4%	1.4%	1.5%
Total % Minoritized	7.4%	7.6%	7.6%	7.7%	7.8%	7.8%	8.1%	8.3%	8.4%	8.7%

Table 1–3. Demographic Profile Pathology Only, 2013–2022	les for Ethnic	bity, as Self-	Reported b	y ASHA Me	embers and	Nonmembe	is for Ethnicity, as Self-Reported by ASHA Members and Nonmembers Certified in Speech-Language	l in Speech-	Language	
rear	2013	2014	C107	20102	2017	2010	2013	2020	2021	2722
Total Reporting =	138,433	144,253	150,468	156,254	162,473	168,604	175,025 181,628	181,628	188,143	193,799

171,310

169,311

166,264

153,016 5.5% 94.5%

145,750 149,822

114,813

Total Reporting for Ethnicity = 116,235 115,789 115,168

6.3% 93.7%

6.2% 93.8%

5.9% 94.1%

5.3% 94.7%

5.1% 94.9%

4.8% 95.2%

4,7% 95.3%

Non-Hispanic/ Non-Latino

Hispanic or Latino

4.7% 95.3%

4.6% 95.4%

	-			
¢	C	1	,	
đ	r	1	۱	
5		ł		

۲

Table 1–4. Race	e as Reported by A	SHA SIG 2 (Neurogen	ics) Members 2	012–2023
Membership Year	Total SIG 2 Members	Total SIG 2 Members Declaring Race	% White	% Non-White
2012	3,980	3,583	91.49%	8.51%
2013	4,419	3,946	90.93%	9.07%
2014	4,643	4,168	91.03%	8.97%
2015	4,809	4,370	90.69%	9.31%
2016	4,988	4,489	90.18%	9.82%
2017	4,797	4,365	90.47%	9.53%
2018	4,523	4,074	90.28%	9.72%
2019	3,853	3,494	90.35%	9.65%
2020	3,389	3,055	89.00%	11.00%
2021	3,179	2,794	89.23%	10.77%
2022	2,928	2,608	87.81%	12.19%
2023	2,643	2,377	87.13%	12.87%

Table 1-5. Ethr	nicity as Repor	ted by ASHA SIG 2 (Neu	rogenics) Memb	ers, 2012–2023
Membership Year	Total SIG 2 Members	Total SIG 2 Members Declaring Ethnicity	% Hispanic/ Latino	% Not Hispanic/ Latino
2012	3,980	3,714	3.90%	96.10%
2013	4,419	4,106	4.82%	95.18%
2014	4,643	4,339	4.31%	95.69%
2015	4,809	4,538	4.43%	95.57%
2016	4,988	4,687	4.89%	95.11%
2017	4,797	4,550	4.97%	95.03%
2018	4,523	4,257	5.40%	94.60%
2019	3,853	3,643	5.52%	94.48%
2020	3,389	3,188	5.49%	94.51%
2021	3,179	2,928	6.18%	93.82%
2022	2,928	2,713	6.23%	93.77%
2023	2,643	2,468	5.92%	94.08%

Diversity Focus to Date

To date, the prevailing clinical interest in diversity within the professions of speech-language pathology and audiology has focused on pediatric populations, most notably the issue of whether to treat phonological and syntactical language and dialect differences. While these are important matters, the need to personalize care cuts across all disorder areas and is of importance to cases seen across the full age spectrum of care. This is especially true for areas in the realm of neurogenics, given the prevalence and incidence of medically based communication, cognitive, and swallowing disorders due to, for example, stroke (Acosta et al., 2021; Caughey et al., 2014), traumatic brain injury (Johnson & Diaz, 2003), Alzheimer's disease (Chin et al., 2011), multiple sclerosis (Langer-Gould et. al., 2022), Parkinson's disease (Bailey et al., 2020), and other etiologies among people from diverse communities. This is significant for the continuing growth of diverse (and diverse aging) populations in the United States (Vespa et al., 2020) and of international aging populations migrating to the United States (Feigin et al., 2020). Attention is sorely needed when one considers that speech-language pathology neurogenics specialists are expected to provide quality care in the absence of evidence-based research to guide best practices assessments and interventions for people from diverse communities (Wallace et al., manuscript in progress).

Neurorehabilitation Needs Assessment for People of Color

Given the prevalence of risk factors associated with neurological impairment among

people of color (see Mullen and Wallace, Chapter 30 of this book), one would suspect that many cases on the typical neurogenics caseload include people of color. Research is needed to explore this. Health disparities, social determinants of health factors, and reduced knowledge about the availability and benefits of rehabilitation services are but a few of the reasons why caseloads may not include as many people from diverse communities as expected.

Research is needed to explore the SLP neurogenics caseload racial/ethnic composition, barriers to service these patients sometimes face, and the range of other issues confronting SLPs who work with neurogenics cases from diverse communities. To date, only one study has investigated these issues in a formal and comprehensive manner exploring matters of relevance to a wide array of cases from diverse communities (Wallace & Bridges, 1991). It would be interesting to replicate this study to obtain insights into current preferred practices and patterns of SLP care for cases from diverse communities. Two studies—one focusing on the perceived adequacy of diversity training provided by educational programs (Stockman et al., 2008) and another focusing on neurorehabilitation services delivered to bilingual neurogenics patients (Centeno, 2000)-provide useful information about preparedness for providing services to people from diverse communities and about the provision of services specifically for bilingual patients needing neurorehabilitation. Replication of these studies would also be of interest to gauge and compare perceptions and judgements about strides made in diversity training and preparedness.

We now turn our attention more directly to clinical issues. It will be helpful at this point to pause briefly, reflect, and examine our own level of preparedness for work with diverse populations.