Cambridge University Press & Assessment 978-1-009-00907-2 — Women with Epilepsy Esther Bui , P. Emanuela Voinescu Frontmatter <u>More Information</u>

Women with Epilepsy

Cambridge University Press & Assessment 978-1-009-00907-2 — Women with Epilepsy Esther Bui , P. Emanuela Voinescu Frontmatter <u>More Information</u>

Women with Epilepsy

A Practical Management Handbook

Edited by

Esther Bui University of Toronto

P. Emanuela Voinescu

Brigham and Women's Hospital



Cambridge University Press & Assessment 978-1-009-00907-2 — Women with Epilepsy Esther Bui , P. Emanuela Voinescu Frontmatter More Information



Shaftesbury Road, Cambridge CB2 8EA, 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

103 Penang Road, #05-06/07, Visioncrest Commercial, Singapore 238467

Cambridge University Press is part of Cambridge University Press & Assessment, a department of the University of Cambridge.

We share the University's mission to contribute to society through the pursuit of education, learning and research at the highest international levels of excellence.

www.cambridge.org Information on this title: www.cambridge.org/9781009009072

DOI: 10.1017/9781009006903

© Cambridge University Press & Assessment 2024

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 & Assessment.

First published 2014 Second edition 2024

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

Library of Congress Cataloging-in-Publication Data Names: Bui, Esther, editor. | Voinescu, P. Emanuela (Paula Emanuela), editor. Title: Women with epilepsy : a practical management handbook / edited by Esther Bui, P. Emanuela Voinescu. Other titles: Women with epilepsy (2014) Description: Second edition. | Cambridge, United Kingdom ; New York, NY : Cambridge University Press, 2024. | Includes bibliographical references and index. Identifiers: LCCN 2023052013 | ISBN 9781009009072 (paperback) | ISBN 9781009006903 (ebook) Subjects: MESH: Epilepsy | Women's Health | Pregnancy Complications Classification: LCC RC372 | NLM WL 385 | DDC 616.85/30082–dc23/eng/20231214 LC record available at https://lccn.loc.gov/2023052013

ISBN 978-1-009-00907-2 Paperback

Cambridge University Press & Assessment 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. Cambridge University Press & Assessment 978-1-009-00907-2 — Women with Epilepsy Esther Bui , P. Emanuela Voinescu Frontmatter <u>More Information</u>

This book is dedicated to all the courageous women and their families who have faced the challenges of epilepsy, often quietly and stoically, to come out defined not by their illness, but by their *courage, resilience and grace.* Someone once wrote "just because we carry it well, doesn't mean it isn't heavy". Despite the weight of their diagnosis, women with epilepsy and their families are the true drivers of change in the work we do. I want to thank my husband Carlo, my children M & J who have supported me in the long hours of work to bring this book to fruition, my co-editor Dr. Emma Voinescu who worked in the trenches with me to refine and build a new edition, the authors of each chapter who generously contributed their expertise and time to update this book, Julianne Hazlewood and Brandy McFadden both determined visionaries who long recognized the value of our collective stories, and last but certainly not least, my dear friend Dr. Autumn Klein, who co-edited the first edition of this book and shared the vision that women's health and priorities should be a fundamental and forefront part of epilepsy care.

Esther Bui

Cambridge University Press & Assessment 978-1-009-00907-2 — Women with Epilepsy Esther Bui , P. Emanuela Voinescu Frontmatter <u>More Information</u>

Contents

List of Contributors ix

- Epidemiology of Women with
 Epilepsy 1
 Kristi McIntosh, Nathalie Jetté, and
 Leah J. Blank
- Neuropsychiatric Issues for Women with Epilepsy 25
 Dilip Koshy and Benjamin Tolchin
- 3 **Sleep-Related Comorbidities in Women with Epilepsy** 46 Milena K. Pavlova and Véronique Latreille
- 4 Hormonal Influences in Women with Epilepsy 64Suchitra Joshi and Jaideep Kapur
- 5 Antiseizure Medications and Hormones 84 Mona Sazgar
- Genetic Epilepsies in Females 101
 Paula Teixeira Marques and Danielle
 M. Andrade
- Gender Issues in Childhoodand Adolescence-Onset
 Epilepsies 122
 Arezoo Rezazadeh, Katherine Muir, and Tadeu Fantaneanu
- 8 **Catamenial Epilepsy** 134 Alexa King and Elizabeth E. Gerard
- 9 **Fertility in Women with Epilepsy** 149 Lidia Di Vito, Mark Quigg, and Barbara Mostacci

- 10 Contraception and Prepregnancy Counseling 168
 Naveed Chaudhry and Emily Johnson
- 11 Teratogenicity and Antiseizure Medications 191 Anna Serafini
- 12 Seizure Management in Pregnancy 215 Ginette Moores
- 13 Obstetric and Fetal Monitoring in Women with Epilepsy 231 John W. Snelgrove and Mathew Sermer
- Neuroimaging in Pregnancy and Epilepsy 241
 Paula Alcaide Leon and Kalliopi A. Petropoulou
- 15 **Obstetrical Anesthesia** 257 Fatima Zahir, Jonathan H. Waters, and Janet F. R. Waters
- Postpartum Seizure Management and Safety Issues for Women with Epilepsy 265 Natalia Rincon and Naymee J. Velez-Ruiz
- 17 Breastfeeding and Use of Antiseizure Medications 279 Abrar O. al-Faraj and Trudy D. Pang

Cambridge University Press & Assessment 978-1-009-00907-2 — Women with Epilepsy Esther Bui , P. Emanuela Voinescu Frontmatter <u>More Information</u>

and Cecil D. Hahn

viii	Contents	
Cli an	anagement of the Neonate: nical Examination d Surveillance 293 rlos I. Salazar, Eugene Ng,	19 Aging, Menopause, and Bone Health in Women with Epilepsy 306 Alison M. Pack and Stephanie Shatzman

Index 322

Cambridge University Press & Assessment 978-1-009-00907-2 — Women with Epilepsy Esther Bui , P. Emanuela Voinescu Frontmatter <u>More Information</u>

Contributors

Paula Alcaide Leon

Department of Medical Imaging University of Toronto Toronto, ON, Canada

Danielle M. Andrade Adult Genetic Epilepsy Program University of Toronto Toronto, ON, Canada

Leah J. Blank

Departments of Neurology and Population Health Science and Policy Mount Sinai School of Medicine New York, NY, USA

Naveed Chaudhry

Department of Neurology Johns Hopkins School of Medicine Baltimore, MD, USA

Lidia Di Vito

IRCCS Istituto delle Scienze Neurologiche di Bologna, European Reference Network for Rare and Complex Epilepsies (EpiCARE), Bologna, Italy.

Tadeu Fantaneanu

The Ottawa Hospital University of Ottawa Ottawa Hospital Research Institute Ottawa, ON, Canada

Abrar O. al-Faraj Boston Medical Center Boston University School of Medicine Boston, MA, USA

Elizabeth E. Gerard Department of Neurology Feinberg School of Medicine Northwestern University Chicago, IL, USA

Cecil D. Hahn

Division of Neurology The Hospital for Sick Children and Department of Paediatrics University of Toronto Toronto, ON, Canada

Nathalie Jetté

Department of Clinical Neurosciences, University of Calgary, Calgary, AB, Canada

Emily Johnson Department of Neurology Johns Hopkins School of Medicine Baltimore, MD, USA

Suchitra Joshi

Department of Neurology University of Virginia Health Sciences Center Charlottesville, VA, USA

Jaideep Kapur

Departments of Neurology and Neuroscience UVA Brain Institute University of Virginia Health Sciences Center Charlottesville, VA, USA

Alexa King

Department of Neurology Feinberg School of Medicine Northwestern University Chicago, IL, USA

Dilip Koshy

Temerty Faculty of Medicine Department of Psychiatry University of Toronto University Health Network Centre for

Cambridge University Press & Assessment 978-1-009-00907-2 — Women with Epilepsy Esther Bui , P. Emanuela Voinescu Frontmatter <u>More Information</u>

х

List of Contributors

Mental Health Toronto, ON, Canada

Véronique Latreille

Department of Neurology Montreal Neurological Institute–Hospital McGill University Montreal, QC, Canada

Kristi McIntosh

Electroneurophysiology Program British Columbia Institute of Technology Burnaby, BC, Canada

Ginette Moores

Division of Neurology and Department of Medicine University of Toronto Toronto, ON, Canada

Barbara Mostacci

IRCCS Istituto delle Scienze Neurologiche di Bologna, European Reference Network for Rare and Complex Epilepsies (EpiCARE), Bologna, Italy.

Katherine Muir

Children's Hospital of Eastern Ontario CHEO Research Institute University of Ottawa Ottawa, ON, Canada

Eugene Ng

Department of Newborn and Developmental Paediatrics Sunnybrook Health Sciences Centre Department of Paediatrics University of Toronto Toronto, ON, Canada

Alison M. Pack

Department of Neurology Columbia University Irving Medical Center New York, NY, USA **Trudy D. Pang** Beth Israel Deaconess Medical Center Harvard Medical School Boston, MA, USA

Milena K. Pavlova

Department of Neurology Brigham and Women's Hospital Boston, MA, USA

Kalliopi A. Petropoulou

Radiology Department State University of New York Upstate Medical University Syracuse, NY, USA

Mark Quigg

Department of Neurology University of Virginia Charlottesville, VA, USA

Arezoo Rezazadeh

The Ottawa Hospital University of Ottawa Ottawa Hospital Research Institute Ottawa, ON, Canada

Natalia Rincon

Department of Neurology University of Miami Miller School of Medicine Miami, FL, USA

Carlos I. Salazar

Division of Neurology The Hospital for Sick Children University of Toronto Toronto, ON, Canada

Mona Sazgar

University of California–Irvine Irvine, CA, USA

Anna Serafini

Department of Neurology and Rehabilitation University of Illinois–Chicago Chicago, IL, USA

Cambridge University Press & Assessment 978-1-009-00907-2 — Women with Epilepsy Esther Bui , P. Emanuela Voinescu Frontmatter <u>More Information</u>

List of Contributors

xi

Mathew Sermer Sinai Health System Department of Obstetrics and Gynaecology University of Toronto Toronto, ON, Canada

Stephanie Shatzman University of Michigan Health, Ann Arbor, MI

John W. Snelgrove Sinai Health System Department of Obstetrics and Gynaecology University of Toronto Toronto, ON, Canada

Paula Teixeira Marques Epilepsy Program McMaster University Hamilton, ON, Canada

Benjamin Tolchin Department of Neurology Yale School of Medicine Center for Clinical Ethics Yale New Haven Health New Haven, CT, USA

Naymee J. Velez-Ruiz Department of Neurology University of Miami Miller School of Medicine Miami, FL, USA

Janet F. R. Waters Division of Women's Neurology UPMC Magee Women's Hospital Pittsburgh, PA, USA

Jonathan H. Waters Department of Anesthesiology University of Pittsburgh Pittsburgh, PA, USA

Fatima Zahir UPMC Passavant Hospital Pittsburgh, PA, USA