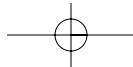
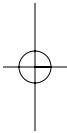
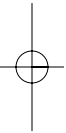
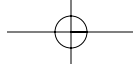


FIFTH EDITION

WYLLIE'S
TREATMENT OF
EPILEPSY
PRINCIPLES AND PRACTICE



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PRINCIPLES AND PRACTICE

Editor-in-Chief

Elaine Wyllie, MD

Professor of Pediatric Medicine
Cleveland Clinic Lerner College of Medicine
Director of the Center for Pediatric Neurology
Neurological Institute
Cleveland Clinic
Cleveland, Ohio

Associate Editors

**Gregory D. Cascino,
MD, FAAN**


Professor of Neurology
Mayo Clinic College of Medicine
Chair, Division of Epilepsy
Mayo Clinic
Rochester, Minnesota

Barry E. Gidal, PharmD

Professor, School of Pharmacy and
Department of Neurology
Chair, Pharmacy Practice Division
University of Wisconsin
Madison, Wisconsin

Howard P. Goodkin, MD, PhD

The Shure Associate Professor
of Pediatric Neurology
Departments of Neurology and Pediatrics
University of Virginia
Charlottesville, Virginia

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Product Manager: Tom Gibbons
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Summary: "In one convenient source, this book provides a broad, detailed, and cohesive overview of seizure disorders and contemporary treatment options. For this Fifth Edition, the editors have replaced or significantly revised approximately 30 to 50 percent of the chapters, and have updated all of them. Dr. Wyllie has invited three new editors: Gregory Cascino, MD, at Mayo Clinic, adult epileptologist with special expertise in neuroimaging; Barry Gidal, PharmD, RPh, at University of Wisconsin, a pharmacologist with phenomenal expertise in antiepileptic medications; and Howard Goodkin, MD, PhD, a pediatric neurologist at the University of Virginia. A fully searchable companion website will include the full text online and supplementary material such as seizure videos, additional EEG tracings, and more color illustrations"—Provided by publisher.

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DEDICATION

To the Cleveland Clinic, which brought me on board as a young doctor and provided me career opportunities beyond my wildest imagination

To our Chief Executive Officer, Dr. Delos Cosgrove, whose visionary leadership has brought the Cleveland Clinic to where we are today, at the forefront of medical care throughout the world

And to my husband, Dr. Robert Wyllie, Physician-in-Chief of the Cleveland Clinic Children's Hospital, who provides the environment for all of us who care for children to do our best work



Dr. Elaine Wyllie, on campus at the Cleveland Clinic

■ CONTRIBUTING AUTHORS

Harry S. Abram, M.D.

Assistant Professor of Pediatrics and Neurology
Mayo Clinic Florida—Nemours Children's Clinic
Director, Neurophysiology Laboratory, Department
of Pediatrics
Wolfson Children's Hospital
Jacksonville, Florida

Andreas V. Alexopoulos, M.D., M.P.H.

Cleveland Clinic Lerner Research Institute
Cleveland Clinic Epilepsy Center
Cleveland Clinic
Cleveland, Ohio

Ulrich Altrup, M.D. (Deceased)

Department of Neurology
Institute for Experimental Epilepsy Research
Muenster, Germany

Frederick Andermann, O.C., M.D., F.R.C.P. (C.)

Professor of Neurology and Pediatrics
McGill University
Director, Epilepsy Service
Montreal Neurological Hospital and Institute
Montreal, Quebec, Canada

Anne Anderson, M.D.

Associate Professor of Pediatrics, Neurology,
and Neuroscience
Baylor College of Medicine
Medical Director, Epilepsy Monitoring Unit
Investigator, Cain Foundation Laboratories
Texas Children's Hospital
Houston, Texas

Gail D. Anderson, Ph.D.

Professor of Pharmacy
University of Washington
Seattle, Washington

Alexis Arzimanoglou, M.D.

Associate Professor
University Hospitals of Lyon and INSERM U821
Head, Institute for Children and Adolescents with Epilepsy
IDEE and Pediatric Neurophysiology
Hopital Femme Mere Enfant (HCL)
Lyon, France

Thomas Bast, M.D.

Head Physician
Epilepsy Clinic for Children and Adolescents
Epilepsy Centre Kork
Kehl, Germany

Jocelyn F. Bautista, M.D.

Assistant Professor of Medicine
Cleveland Clinic Lerner College of Medicine
Cleveland Clinic
Cleveland, Ohio

Selim R. Benbadis, M.D.

Professor of Neurology
University of South Florida
Director of Epilepsy and EEG
Tampa General Hospital
Tampa, Florida

T.A. Benke, M.D., Ph.D.

Associate Professor of Pediatrics, Neurology, and
Pharmacology
University of Colorado Denver, School
of Medicine
Children's Hospital
Aurora, Colorado

Anne T. Berg, Ph.D.

Research Professor of Biology
Northern Illinois University
DeKalb, Illinois
Professor, Epilepsy Center
Northwestern Children's Memorial Hospital
Chicago, Illinois

William E. Bingaman, M.D.

Head, Epilepsy Surgery
Vice Chairman, Neurological Institute
The Richard and Karen Shusterman Family Endowed Chair
in Epilepsy Surgery
Professor in Surgery
Cleveland Clinic Lerner College of Medicine of Case Western
Reserve University
Cleveland Clinic
Cleveland, Ohio

Angela K. Birnbaum, Ph.D.

Associate Professor of Experimental and Clinical
Pharmacology
University of Minnesota
Minneapolis, Minnesota

Jane G. Boggs, M.D.

Associate Professor of Neurology
Wake Forest University
Winston Salem, North Carolina

Blaise F. D. Bourgeois, M.D.

Professor of Neurology
Harvard Medical School
Director, Division of Epilepsy and Clinical Neurophysiology
Children's Hospital
Boston, Massachusetts

Jeffrey W. Britton, M.D.

Assistant Professor of Neurology
Divisions of Clinical Neurophysiology—EEG and Epilepsy
Mayo Clinic
Rochester, Minnesota

Paula M. Brna, M.D., F.R.C.P. (C.)

Assistant Professor of Pediatrics
Dalhousie University
Pediatric Neurologist
IWK Health Centre
Halifax, Nova Scotia, Canada

Martin J. Brodie, M.D.

Professor of Medicine and Clinical Pharmacology
Division of Cardiovascular and Medical Sciences
University of Glasgow
Clinical and Research Director, Epilepsy Unit
Western Infirmary
Glasgow, Scotland

Amy R. Brooks-Kayal, M.D.

Professor of Pediatrics and Neurology
University of Colorado School of Medicine
Chief and Ponzio Family Chair in Pediatric Neurology
Children's Hospital
Aurora, Colorado

Richard C. Burgess, M.D., Ph.D.

Adjunct Professor of Biomedical Engineering
Case Western Reserve University
Director, MEG Laboratory
Cleveland Clinic
Cleveland, Ohio

Richard W. Byrne, M.D.

Professor and Chairman, Department of Neurosurgery
Rush University Medical School
Chicago, Illinois

Carol S. Camfield, M.D.

Professor Emeritus of Child Neurology
Dalhousie University
Halifax, Nova Scotia, Canada

Peter R. Camfield, M.D.

Professor Emeritus of Child Neurology
Dalhousie University
Halifax, Nova Scotia, Canada

Gregory D. Cascino, M.D., F.A.A.N.

Professor of Neurology
Mayo Clinic College of Medicine
Chair, Division of Epilepsy
Mayo Clinic
Rochester, Minnesota

Kevin E. Chapman, M.D.

Department of Pediatric Neurology
Barrow Neurological Institute
St. Joseph's Hospital and Medical Center
Phoenix, Arizona

Jean E. Cibula, M.D.

Assistant Professor of Neurology
University of Florida
Medical Director, EEG Lab
University of Florida Comprehensive Epilepsy Program
Shands Hospital at the University of Florida
Gainesville, Florida

Robert R. Clancy, M.D.

Professor of Neurology and Pediatrics
University of Pennsylvania School of Medicine
Children's Hospital of Philadelphia
Philadelphia, Pennsylvania

J. Helen Cross, M.B., Ch.B., Ph.D., F.R.C.P.C.H., F.R.C.P.

Prince of Wales's Chair of Childhood Epilepsy
UCL Institute of Child Health
Honorary Consultant in Paediatric Neurology
Great Ormond Street Hospital
London, England

Luigi D'Argenzio, M.D.

Epilepsy Fellow, Neuroscience Unit
UCL—Institute of Child Health
London, United Kingdom
Clinical Fellow in Paediatric Neurology
National Centre for Young People with Epilepsy
Lingfield, Surrey, United Kingdom

Stefanie Darnley, B.A.

Research Assistant in Neurology
Johns Hopkins University School of Medicine
Baltimore, Maryland

Rohit R. Das, M.D., M.P.H.

Assistant Professor of Neurology
University of Louisville
Attending Neurologist and Epileptologist
Kosair Children's and University of Louisville Hospitals
Louisville, Kentucky

Anita Datta, M.D., F.R.C.P.C.

Clinical Assistant Professor of Pediatric Neurology
Pediatric Neurologist/Epileptologist
University of Saskatchewan
Royal University Hospital
Saskatoon, Saskatchewan, Canada

Norman Delanty, M.D., F.R.C.P.I.

Honorary Senior Lecturer in Molecular and Cellular Therapeutics
Royal College of Surgeons in Ireland
Consultant Neurologist, Epilepsy Programme
Beaumont Hospital
Dublin, Ireland

Robert J. DeLorenzo, M.D., Ph.D., M.P.H.

George Bliley Professor of Neurology
Professor of Pharmacology and Toxicology
Professor of Molecular Biophysics and Biochemistry
Virginia Commonwealth University
Virginia Commonwealth University Hospital
Richmond, Virginia

Darryl C. De Vivo, M.D.

Sidney Carter Professor of Neurology and Professor of Pediatrics
Columbia University College of Physicians and Surgeons
New York Presbyterian Hospital
University Hospital of Columbia and Cornell
New York, New York

Beate Diehl, M.D.

Department of Clinical and Experimental Epilepsy
Institute of Neurology, University College London
Consultant Clinical Neurophysiologist
National Hospital for Neurology and Neurosurgery
London, United Kingdom

Ding Ding, M.D., M.P.H.

Associate Professor of Biostatistics and Epidemiology
Fudan University
Hua Shan Hospital
Shanghai, People's Republic of China

Joseph Draskowski, M.D.

Associate Professor of Neurology
Mayo Clinic Arizona
Phoenix, Arizona

François Dubeau, M.D.

Assistant Professor of Neurology and Neurosurgery
McGill University
Montreal Neurological Hospital and Institute
Montreal, Quebec, Canada

Michael Duchowny, M.D.

Professor of Neurology and Pediatrics
University of Miami Miller School of Medicine
Director, Comprehensive Epilepsy Center,
Brain Institute
Miami Children's Hospital
Miami, Florida

Stephan Eisenschenk, M.D.

Associate Professor of Neurology
University of Florida
Director, UF/Shands Comprehensive Epilepsy Program
Shands Hospital
Gainesville, Florida

Dana Ekstein, M.D.

Hebrew University School of Medicine
Hadassah University Medical Center
Jerusalem, Israel

Christian E. Elger, M.D., F.R.C.P.

Professor of Epileptology
University of Bonn
Head, Department of Epileptology
University of Bonn Medical Centre
Bonn, Germany

Edward Faught, M.D.

Professor of Neurology
Emory University
Chief, Neurology Service
Emory University Hospital Midtown
Atlanta, Georgia

Jacqueline A. French, M.D.

Professor of Neurology
New York University School of Medicine
Academic Director, Comprehensive
Epilepsy Center
New York University-Langone Medical Center
New York, New York

Neil Friedman, M.D., Ch.B.

Center for Pediatric Neurology
Neurological Institute, Cleveland Clinic
Cleveland, Ohio

William Davis Gaillard, M.D.

Professor of Neurology and Pediatrics
George Washington University and Georgetown University
Chief, Division of Epilepsy, Neurophysiology and Critical
Care Neurology
Children's National Medical Center
Washington, D.C.

Deana M. Gazzola, M.D.

Instructor in Neurology
New York University School of Medicine
New York University-Langone Medical Center
New York, New York

Barry E. Gidal, Pharm.D.

Professor, School of Pharmacy and Department of Neurology
Chair, Pharmacy Practice Division
University of Wisconsin
Madison, Wisconsin

Frank G. Gilliam, M.D., M.P.H.

Director of Neurology
Geisinger Health System
Wilkes-Barre and Danville, Pennsylvania

Robin L. Gilmore, M.D.

Staff Neurologist
Maury Regional Medical Center
Columbia, Tennessee

Tracy A. Glauser, M.D.

Professor of Pediatrics
University of Cincinnati College of Medicine
Director, Comprehensive Epilepsy Center
Cincinnati Children's Hospital Medical Center
Cincinnati, Ohio

Cristina Y. Go, M.D.

Neurologist and Clinical Neurophysiologist
Paediatric Epilepsy Fellowship Training Co-director
The Hospital for Sick Children
Toronto, Ontario, Canada

Jorge A. González-Martínez, M.D., Ph.D.

Staff, Epilepsy Surgery
Epilepsy Center
Cleveland Clinic Neurological Institute
Cleveland, Ohio

Howard P. Goodkin, M.D., Ph.D.

The Shure Associate Professor of Pediatric Neurology
Departments of Neurology and Pediatrics
University of Virginia
Charlottesville, Virginia

L. John Greenfield, Jr., M.D., Ph.D.

Professor and Chairman
Department of Neurology
University of Arkansas for Medical Sciences
Little Rock, Arkansas

Varda Gross-Tsur, M.D.

Associate Professor
Hebrew University—Hadassah Hospital
Director, Child Development Unit
Shaare Zedek Medical Center
Jerusalem, Israel

Carlos A. M. Guerreiro, M.D., Ph.D.

Professor of Neurology
University of Campinas (Unicamp)
Campinas, Sao Paulo, Brazil

Marilisa M. Guerreiro, M.D., Ph.D.

Professor of Pediatric Neurology
Head, Child Neurology Section
University of Campinas (Unicamp)
Campinas, Sao Paulo, Brazil

Renzo Guerrini, M.D.

Professor of Child Neurology and Psychiatry
University of Florence
Director, Pediatric Neurology
Children's Hospital A. Meyer
Florence, Italy

Ajay Gupta, M.D.

Assistant Professor of Pediatric Epilepsy
Cleveland Clinic Lerner College of Medicine
Cleveland Clinic
Cleveland, Ohio

Andreas Hahn, M.D.

Associate Professor of Neuropediatrics
Justus-Liebig-University Giessen
Assistant Medical Director, Neuropediatrics
University Hospital Giessen
Giessen, Germany

Stephen Hantus, M.D.

Associate Staff
Cleveland Clinic Epilepsy Center
Cleveland, Ohio

Cynthia L. Harden, M.D.

Professor of Neurology, Clinical Educator Track
Director, Division of Epilepsy
University of Miami Miller School of Medicine
Attending Neurologist
Jackson Memorial Hospital
University of Miami Hospital
Miami, Florida

W. Allen Hauser, M.D.

Professor of Neurology and Epidemiology
Columbia University
New York, New York

Lara Jehi, M.D.

Assistant Professor of Neurology
Cleveland Clinic Lerner College of Medicine
Epilepsy Center, Cleveland Clinic
Cleveland, Ohio

Stephen E. Jones, M.D., Ph.D.

Imaging Institute
Cleveland Clinic
Cleveland, Ohio

Stephen P. Kalhorn, M.D.

Department of Neurosurgery
New York University Langone Medical Center
New York, New York

Andres M. Kanner, M.D.

Professor of Neurological Sciences and Psychiatry
Rush Medical College at Rush University
Director, Laboratories of Electroencephalography
and Video-EEG Telemetry
Associate Director, Section of Epilepsy and Rush
Epilepsy Center
Rush University Medical Center
Chicago, Illinois

Christoph Kellinghaus, M.D.

Head of Section, Epilepsy/EEG
Klinikum Osnabrück
Osnabrück, Germany

John F. Kerrigan, M.D.

Assistant Professor of Clinical Pediatrics and Neurology
University of Arizona College of Medicine-Phoenix
Director, Pediatric Epilepsy Program
Co-director, Hypothalamic Hamartoma Program
Barrow Neurological Institute
St. Joseph's Hospital and Medical Center
Phoenix, Arizona

Prakash Kotagal, M.D.

Head, Section of Pediatric Epilepsy
Epilepsy Center
Cleveland Clinic
Cleveland, Ohio

Gregory Krauss, M.D.

Professor of Neurology
Johns Hopkins Hospital
Baltimore, Maryland

Ruben Kuzniecky, M.D.

Professor of Neurology
New York University
Co-director, NYU Epilepsy Center
New York University Hospital
New York, New York

Patrick Kwan, M.D.

Division of Neurology
Department of Medicine and Therapeutics
The Chinese University of Hong Kong
Prince of Wales Hospital
Hong Kong

Kay Kyllonen, Pharm.D., F.P.P.A.G.

Clinical Specialist in Pediatrics
Pharmacy Department
Cleveland Clinic
Cleveland, Ohio

Beth A. Leeman, M.D.

Assistant Professor of Neurology
Emory University
Physician, Neurology Service
Atlanta VA Medical Center
Atlanta, Georgia
Assistant in Neuroscience, Department of Neurology
Massachusetts General Hospital
Boston, Massachusetts

Louis Lemieux, B.Sc., M.Sc., Ph.D.

Professor of Physics Applied to Medical Imaging
Department of Clinical and Experimental Epilepsy
UCL Institute of Neurology
London, United Kingdom

Ilo E. Leppik, M.D.

Professor of Pharmacy and Adjunct Professor
of Neurology
Director of Epilepsy Research and Education Program
College of Pharmacy
University of Minnesota
Director of Research
MINCEP Epilepsy Care
Minneapolis, Minnesota

x **Contributing Authors**

Christine Linehan, Ph.D.

Senior Researcher, Centre for Disability Studies
University College Dublin
Dublin, Ireland

Tobias Loddenkemper, M.D.

Assistant Professor of Neurology
Harvard Medical School
Children's Hospital
Boston, Massachusetts

Hans O. Lüders, M.D., Ph.D.

Professor of Neurology
Case Medical School
Epilepsy Center Director
University Hospitals
Cleveland, Ohio

Susan E. Marino, Ph.D.

Assistant Professor and Director of Experimental
and Clinical Pharmacology
Center for Clinical and Cognitive Neuropharmacology
University of Minnesota
Minneapolis, Minnesota

Robert C. Martinez, M.D.

Instructor in Neurology, Epilepsy Division
University of Miami Miller School of Medicine
Jackson Memorial Hospital, University of Miami Hospital
Miami, Florida

Gary W. Mathern, M.D.

Professor of Neurosurgery and Psychiatry & Behavioral
Sciences
Intellectual and Developmental Disabilities Research Center
Brain Research Institute
David Geffen School of Medicine
University of California, Los Angeles
Neurosurgical Director, Pediatric Epilepsy Surgery Program
and Neurobiology of Epilepsy Research Laboratory
Ronald Reagan Medical Center
Los Angeles, California

Michael J. McLean, M.D., Ph.D.

Associate Professor of Neurology
Vanderbilt University Medical Center
Nashville, Tennessee

Kimford J. Meador, M.D.

Professor of Neurology
Emory University
Director of Epilepsy
Emory University Hospital
Atlanta, Georgia

Mohamad Mikati, M.D.

Wilburt C. Davison Distinguished Professor of Pediatrics
Professor of Neurobiology
Duke University
Chief, Division of Pediatric Neurology
Duke University Medical Center
Durham, North Carolina

Ghayda Mirzaa, M.D.

Fellow, Clinical Genetics
Department of Human Genetics
University of Chicago
Chicago, Illinois

Eli M. Mizrahi, M.D.

Chair of Neurology
Professor of Neurology and Pediatrics
Director, Clinical Neurophysiology Residency Program
Baylor College of Medicine
Chief, Neurophysiology Service
St. Luke's Episcopal Hospital
Houston, Texas

Ahsan N.V. Moosa, M.D.

Epilepsy Center, Neurological Institute
Cleveland Clinic
Cleveland, Ohio

Diego A. Morita, M.D.

Assistant Professor of Pediatrics and Neurology
University of Cincinnati College of Medicine
Director, New Onset Seizure Program
Cincinnati Children's Hospital Medical Center
Cincinnati, Ohio

Bernd A. Neubauer, M.D.

Head, Department of Neuropediatrics
University of Giessen
Giessen, Germany

Katherine C. Nickels, M.D.

Assistant Professor of Neurology
Senior Associate Consultant
Mayo Clinic
Rochester, Minnesota

Soheyl Noachtar, M.D.

Professor of Neurology
Head, Epilepsy Center
University of Munich
Munich, Germany

Douglas R. Nordli, Jr., M.D.

Professor of Pediatrics
Northwestern University Feinberg School of Medicine
Lorna S. and James P. Langdon Chair of
Pediatric Epilepsy
Children's Memorial Hospital
Chicago, Illinois

Christine O'Dell, R.N., M.S.N.

Clinical Nurse Specialist, Neurology
Montefiore Medical Center
New York, New York

Karine Ostrowsky-Coste, M.D.

University Hospitals of France
Institute for Children and Adolescents with Epilepsy—IDEE
and Pediatric Neurophysiology
Hopital Femme Mere Infant (HCL)
Lyon, France

Alison M. Pack, M.D.

Associate Professor of Clinical Neurology
Columbia University
New York Presbyterian Hospital
New York, New York

Sumit Parikh, M.D.

Center for Pediatric Neurology
Neurological Institute
Cleveland Clinic
Cleveland, Ohio

John M. Pellock, M.D.

Professor and Chair of Child Neurology
Virginia Commonwealth University
Richmond, Virginia

Page B. Pennell, M.D.

Associate Professor of Neurology
Harvard Medical School
Director of Research for Division of Epilepsy and Sleep
Brigham and Women's Hospital
Boston, Massachusetts

Andrew Pickens IV, M.D., J.D., M.B.A.

Medical Director, Duke Raleigh Emergency Department,
Quality Improvement
Raleigh, North Carolina

Bernd Pohlmann-Eden, M.D., Ph.D.

Professor of Neurology and Pharmacology
Dalhousie University
Co-director, Epilepsy Program
Queen Elizabeth II Health Science Centre
Halifax, Canada

Richard A. Prayson, M.D.

Professor of Pathology
Cleveland Clinic Lerner College of Medicine
Section Head, Neuropathology
Cleveland Clinic
Cleveland, Ohio

Janet Reid, M.D., F.R.C.P.C.

Section Head of Pediatric Radiology
Children's Hospital Cleveland Clinic
Cleveland, Ohio

James J. Riviello, Jr., M.D.

George Peterkin Endowed Chair in Pediatrics
Professor of Pediatrics and Neurology
Baylor College of Medicine
Chief of Neurophysiology
Texas Children's Hospital
Houston, Texas

Howard C. Rosenberg, M.D., Ph.D.

Professor of Physiology and Pharmacology
University of Toledo College of Medicine
Toledo, Ohio

William E. Rosenfeld, M.D.

Director
Comprehensive Epilepsy Care Center for Children and Adults
Chesterfield, Missouri

Jonathan Roth, M.D.

Pediatric Neurosurgery Fellow
New York University Langone Medical Center
New York, New York

Paul M. Ruggieri, M.D.

Head, Section of Neuroradiology and MRI
Cleveland Clinic
Cleveland, Ohio

Steven C. Schachter, M.D.

Professor of Neurology
Harvard Medical School
Chief Academic Officer
Center for Integration of Medicine and Innovative Technology
Boston, Massachusetts

Stephan Schuele, M.D., M.P.H.

Assistant Professor of Neurology
Northwestern University
Feinberg School of Medicine
Director, Northwestern University Comprehensive
Epilepsy Center
Chicago, Illinois

Raj D. Sheth, M.D.

Professor of Neurology
Mayo Clinic College of Medicine
Nemours Children's Clinic
Jacksonville, Florida

Shlomo Shinnar, M.D., Ph.D.

Professor of Neurology, Pediatrics and Epidemiology and
Population Health
Hyman Climenko Professor of Neuroscience Research
Albert Einstein College of Medicine
Director, Comprehensive Epilepsy Management Center
Montefiore Medical Center
New York, New York

Joseph I. Sirven, M.D.

Professor and Chairman, Neurology
Mayo Clinic
Phoenix, Arizona

Michael C. Smith, M.D.

Professor of Neurological Sciences
Rush University
Director and Senior Attending Neurologist,
Rush Epilepsy Center
Rush University Medical Center
Chicago, Illinois

O. Carter Snead III, M.D.

Professor of Medicine, Paediatrics and Pharmacology
University of Toronto
Head, Division of Neurology (Pediatrics)
Hospital for Sick Children
Toronto, Ontario, Canada

Elson L. So, M.D.

Professor of Neurology
Mayo Clinic
Rochester, Minnesota

Norman K. So, M.B., B.Chir.

Epilepsy Center
Neurological Institute
Cleveland Clinic
Cleveland, Ohio

Erwin-Josef Speckmann, M.D.

Professor Emeritus
Institute of Physiology (Neurophysiology)
University of Münster
Münster, Germany

Martin Staudt, M.D.

Professor of Developmental Neuroplasticity
Eberhard-Karls University
Tübingen, Germany
Vice Director, Clinic for Neuropediatrics and
Neurorehabilitation, Epilepsy Center for Children
and Adolescents
Schön-Klinik Vogtareuth
Vogtareuth, Germany

S. Matthew Stead, M.D., Ph.D.

Assistant Professor of Neurology
Mayo Clinic
Rochester, Minnesota

William O. Tatum IV, D.O.

Professor of Neurology
Mayo Clinic College of Medicine
Director, Epilepsy Monitoring Unit
Mayo Hospital
Jacksonville, Florida

Elizabeth A. Thiele, M.D., Ph.D.

Associate Professor of Neurology
Harvard Medical School
Director, Pediatric Epilepsy Program
Massachusetts General Hospital
Boston, Massachusetts

Elizabeth I. Tietz, M.D.

Professor and Vice-Chair of Physiology and Pharmacology
University of Toledo College of Medicine
Toledo, Ohio

Ingrid Tuxhorn, M.D.

Professor of Medicine
Case Western Reserve University
Cleveland Clinic Lerner Research Center
Neurologic Institute at the Cleveland Clinic Epilepsy Center
Cleveland, Ohio

Basim M. Uthman, M.D., F.A.C.I.P., F.A.A.N.

Professor of Neurology
Director, Neurology Clerkship
Weill Cornell Medical College in Qatar
Qatar Foundation Education City
Doha, Qatar

Fernando L. Vale, M.D.

Professor and Vice-Chair, Department of Neurosurgery
University of South Florida
Tampa General Hospital
Tampa, Florida

Tonicarlo R. Velasco, M.D.

Neurophysiologist
Department of Neurology, Psychiatry and
Behavioral Sciences
University of Sao Paulo
Executive Director, Adult Epilepsy Surgery Program
Hospital das Clinicas de Ribeirao Preto-CIREP
Ribeirao Preto, Sao Paulo, Brazil

Elizabeth Waterhouse, M.D.

Professor of Neurology
Virginia Commonwealth University School of Medicine
Richmond, Virginia

Tim Wehner, M.D.

Department of Neurology
Phillips-University
University Hospital Marburg
Marburg, Germany

Howard L. Weiner, M.D.

Professor of Neurosurgery and Pediatrics
New York University School of Medicine
New York University Langone Medical Center
New York, New York

Timothy E. Welty, Pharm.D., F.C.C.P.

Professor and Chair
Department of Pharmacy Practice
University of Kansas
Lawrence, Kansas
University of Kansas Medical Center
Kansas City, Kansas

James W. Wheless, M.D.

Professor and Chief of Pediatric Oncology
Le Bonheur Chair in Pediatric Neurology
University of Tennessee Health Science Center
Director, Neuroscience Institute
Le Bonheur Comprehensive Epilepsy Program
Le Bonheur Children's Medical Center
Clinical Chief and Director of Pediatric Neurology
St. Jude Children's Research Hospital
Memphis, Tennessee

H. Steve White, Ph.D.

Professor of Pharmacology and Toxicology
College of Pharmacy
University of Utah
Salt Lake City, Utah

L. James Willmore, M.D.

Associate Dean and Professor of Neurology
St. Louis University School of Medicine
St. Louis University Hospital
St. Louis, Missouri

Sara McCrone Winchester, M.D.

Pediatric Neurology Fellow
Department of Pediatrics, Division of Child Neurology
Duke University Medical Center
Durham, North Carolina

S. Parrish Winesett, M.D.

Assistant Professor of Neurosurgery
University of South Florida
Tampa, Florida
Medical Director, Epilepsy Monitoring Unit
All Children Hospital
St. Petersburg, Florida

Elaine Wirrell, B.Sc. (Hon.), M.D., F.R.C.P.(C.)

Professor of Child and Adolescent Neurology and Epilepsy
Director of Pediatric Epilepsy
Mayo Clinic
Rochester, Minnesota

Gregory A. Worrell, M.D., Ph.D.

Assistant Professor of Neurology
Mayo Clinic
Rochester, Minnesota

Elaine Wyllie, M.D.

Professor of Pediatric Medicine
Cleveland Clinic Lerner College of Medicine
Director of the Center for Pediatric Neurology
Neurological Institute
Cleveland Clinic
Cleveland, Ohio

Benjamin G. Zifkin, M.D.C.M., F.R.C.P.C.

Epilepsy Clinic
Montreal Neurological Hospital
Montreal, Quebec, Canada

■ PREFACE

When I started the first edition of this book as a newly minted epileptologist at the Cleveland Clinic, most of our current antiepileptic medications were still on the horizon and epilepsy surgery was in the early stages of development. Each successive edition of the book chronicled sea changes in the field, from the development of powerful neuroimaging techniques, through approval of many new antiepileptic medications, to the emergence of genetics as a force in epilepsy diagnosis. Today, with its own neurodiagnostic procedures and plethora of effective treatment modalities, epileptology is one of the most rewarding and complex fields in medicine. And in society, epilepsy is starting to emerge from the shadows as patients and families band together in support groups and gather information from the internet. Persons with epilepsy are demanding, expecting, state-of-the-art health care at the same time that our field is growing more complex every day.

That's why we need this book now more than ever. Its reason for being is to provide health care professionals with the most up-to-date tools to care for persons with epilepsy, day in and day out. Thanks to the 144 world-renowned experts who shared their knowledge with us, this fifth edition is a ready reference for cutting-edge information about everything from complex drug–drug interactions to age-related EEG manifestations of focal epileptogenic lesions. It's been an honor to craft this work for all of us to use in our clinical practice.

Elaine Wyllie, MD
Professor of Pediatric Medicine
Cleveland Clinic Lerner College of Medicine
Director of the Center for Pediatric Neurology
Neurological Institute
Cleveland Clinic
www.clevelandclinic.org/epilepsy

■ FOREWORD

It is a privilege and honor to be asked to write the foreword of the 5th Edition of *Wyllie's Treatment of Epilepsy*. It is also an easy task since I know the book well. The 4th edition is frequently pulled from my bookshelf when I have a question about a patient with epilepsy, and I am looking forward to replacing it with the 5th. While the first edition, published in 1993, was outstanding, each edition has achieved new heights. Recognizing that it is very difficult to continuously improve a legendary text, the 5th edition will not disappoint.

Advances in the treatment of epilepsy continue to evolve at a rapid rate as there is increasing awareness among both health-care workers and the public of the enormity of the condition. Epilepsy does not spare age, gender, race, or ethnic group and is one of the most common neurologic disorders encountered. Increased understanding of the etiology, pathophysiology, and genetic underpinnings coupled with advancements in the medical, dietary, and surgical management of patients makes this an ideal time to publish the 5th edition.

Elaine Wyllie, along with her associate editors Gregory Cascino, Barry Gidal, and Howard Goodkin, has recruited an outstanding group of authors who have provided a comprehensive, but not encyclopedic, review of the treatment of epilepsy. Each author is well known for their work in epilepsy.

The book is crafted in a logical and educationally sound manner. Starting with the pathologic substrates and mechanisms of epilepsy, important chapters cover epidemiology, natural history, genetics, and epileptogenesis (Part I). A key tool in the evaluation of patients with epilepsy is the electroencephalogram and Part II of the book covers the basic principles of electroencephalography. A wonderful bonus in this section is a remarkably complete atlas of epileptiform abnormalities.

Epileptic seizures and syndromes are detailed in Part III of the book. The gamut of seizures and syndromes from the neonate to

the elderly are covered in considerable detail. Nonepileptic conditions that mimic epileptic seizures are reviewed and there is a heavy emphasis on seizures in special clinical settings, such as seizures in neurometabolic diseases, head trauma, and neurocutaneous disorders.

Antiepileptic medications are reviewed in Part IV and epilepsy surgery in Part V. As the book's title would indicate, these topics are covered in considerable depth, either of which would qualify as a stand-alone monograph. Dr. Wyllie and her colleagues understand that individuals with epilepsy frequently have more issues than just seizures, and have devoted Part VI to psychosocial aspects of epilepsy.

The authors have crafted a highly integrated text, not an easy task when dealing with multiple authors. As such, the book is easy to read and flows from one part to the other rather seamlessly. While few readers will read the book cover to cover, the interested student who wishes to review topics will find the process enjoyable as well as educationally rewarding.

While there are numerous textbooks dealing with epilepsy available, none do as much as Wyllie and colleagues in one volume. Beautifully illustrated and attractively designed, the 5th volume will undoubtedly retain its stature as the best book on epilepsy available. It is highly recommended for everyone interested in epilepsy, from the medical student to the seasoned epileptologist.

Books like *Wyllie's Treatment of Epilepsy* do not happen without a great deal of work from the editors and authors. Kudos to all.

Gregory L. Holmes, MD
Professor of Neurology and Pediatrics
Chair, Department of Neurology
Dartmouth Medical School
Lebanon, New Hampshire



■ ACKNOWLEDGMENTS

The fifth edition's terrific associate editors—Dr. Gregory Cascino, Dr. Barry Gidal, and Dr. Howard Goodkin—each brought their own prodigious expertise, dedication, and good humor to the project. Ms. Jennifer Kowalak provided impeccable editorial assistance, and Mr. Tom Gibbons at Lippincott shepherded the book smoothly through production. Mr. Dick

Blake, master teacher of dance and etiquette, remains a constant inspiration and wellspring of creativity. And I owe everything to Dr. Robert Wyllie, Physician-in-Chief of the Cleveland Clinic Children's Hospital—my husband, dancing partner, and father to our sons, Mr. Robert Wyllie and Mr. James Wyllie, who make us proud.

■ CONTENTS

<i>Contributing Authors</i>	<i>vi</i>
<i>Preface</i>	<i>xiii</i>
<i>Foreword</i>	<i>xiv</i>
<i>Acknowledgments</i>	<i>xv</i>

PART I ■ PATHOLOGIC SUBSTRATES AND MECHANISMS OF EPILEPTOGENESIS

Section A Epidemiology and Natural History of Epilepsy

Chapter 1	Epidemiologic Aspects of Epilepsy	1
	<i>Christine Linehan and Anne T. Berg</i>	
Chapter 2	The Natural History of Seizures	11
	<i>D. Ding and W. A. Hauser</i>	

Section B Epileptogenesis, Genetics, and Epilepsy Substrates

Chapter 3	Experimental Models of Seizures and Mechanisms of Epileptogenesis	20
	<i>T. A. Benke and A. R. Brooks-Kayal</i>	
Chapter 4	Genetics of the Epilepsies	34
	<i>Jocelyn Bautista and Anne Anderson</i>	
Chapter 5	Pictorial Atlas of Epilepsy Substrates	43
	<i>Ajay Gupta, Richard A. Prayson, and Janet Reid</i>	

PART II ■ BASIC PRINCIPLES OF ELECTROENCEPHALOGRAPHY

Chapter 6	Neurophysiologic Basis of the Electroencephalogram	60
	<i>Erwin-Josef Speckmann, Christian E. Elger, and Ulrich Altrup</i>	
Chapter 7	Localization and Field Determination in Electroencephalography	73
	<i>Richard C. Burgess</i>	
Chapter 8	Application of Electroencephalography in the Diagnosis of Epilepsy	93
	<i>Katherine C. Nickels and Gregory D. Cascino</i>	
Chapter 9	Electroencephalographic Atlas of Epileptiform Abnormalities	103
	<i>Soheyl Noachtar and Elaine Wyllie</i>	

PART III ■ EPILEPTIC SEIZURES AND SYNDROMES

Section A Epileptic Seizures

Chapter 10	Classification of Seizures	134
	<i>Christoph Kellinghaus and Hans O. Lüders</i>	

	Appendix 10.A: Proposal for Revised Clinical and Electrographic Classification of Epileptic Seizures	137
	<i>Commission on Classification and Terminology of the International League Against Epilepsy (1981)</i>	
Chapter 11	Epileptic Auras	144
	<i>Norman K. So</i>	
Chapter 12	Focal Seizures with Impaired Consciousness	153
	<i>Lara Jehi and Prakash Kotagal</i>	
Chapter 13	Focal Motor Seizures, Epilepsia Partialis Continua, and Supplementary Sensorimotor Seizures	163
	<i>Andreas V. Alexopoulos and Stephen E. Jones</i>	
Chapter 14	Generalized Tonic–Clonic Seizures	184
	<i>Tim Webner</i>	
Chapter 15	Absence Seizures	192
	<i>Alexis Arzimanoglou and Karine Ostrowsky-Coste</i>	
Chapter 16	Atypical Absence Seizures, Myoclonic, Tonic, and Atonic Seizures	202
	<i>William O. Tatum IV</i>	
Chapter 17	Epileptic Spasms	216
	<i>Ingrid Tuxhorn</i>	
Section B Epilepsy Conditions: Diagnosis and Treatment		
Chapter 18	Classification of the Epilepsies	229
	<i>Tobias Loddenkemper</i>	
	Appendix 18.A: Proposal for Revised Classification of Epilepsies and Epileptic Syndromes	235
	<i>Commission on Classification and Terminology of the International League Against Epilepsy (1989)</i>	
Chapter 19	Idiopathic and Benign Partial Epilepsies of Childhood	243
	<i>Elaine C. Wirrell, Carol S. Camfield, and Peter R. Camfield</i>	
Chapter 20	Idiopathic Generalized Epilepsy Syndromes of Childhood and Adolescence	258
	<i>Stephen Hantus</i>	
Chapter 21	Progressive and Infantile Myoclonic Epilepsies	269
	<i>Bernd A. Neubauer, Andreas Hahn, and Ingrid Tuxhorn</i>	
Chapter 22	Encephalopathic Generalized Epilepsy and Lennox–Gastaut Syndrome	281
	<i>S. Parrish Winesett and William O. Tatum IV</i>	
Chapter 23	Continuous Spike Wave of Slow Sleep and Landau–Kleffner Syndrome	294
	<i>Mohamad A. Mikati and Sara M. Winchester</i>	
Chapter 24	Epilepsy with Reflex Seizures	305
	<i>Benjamin Zifkin and Frederick Andermann</i>	
Chapter 25	Rasmussen Encephalitis (Chronic Focal Encephalitis)	317
	<i>François Dubeau</i>	
Chapter 26	Hippocampal Sclerosis and Dual Pathology	332
	<i>Luigi D’Argenzio and J. Helen Cross</i>	
Chapter 27	Malformations of Cortical Development and Epilepsy	339
	<i>Ghayda Mirzaa, Ruben Kuzniecky, and Renzo Guerrini</i>	

xviii	Contents	
Chapter 28	Brain Tumors and Epilepsy <i>Lara Jehi</i>	352
Chapter 29	Post-Traumatic Epilepsy <i>Stephan Schuele</i>	361
Chapter 30	Epilepsy in the Setting of Cerebrovascular Disease <i>Stephen Hantus, Neil Friedman, and Bernd Pohlmann-Eden</i>	371
Chapter 31	Epilepsy in the Setting of Neurocutaneous Syndromes <i>Ajay Gupta</i>	375
Chapter 32	Epilepsy in the Setting of Inherited Metabolic and Mitochondrial Disorders <i>Sumit Parikh, Douglas R. Nordli Jr., and Darryl C. De Vivo</i>	383
Section C Diagnosis and Treatment of Seizures in Special Clinical Settings		
Chapter 33	Neonatal Seizures <i>Kevin E. Chapman, Eli M. Mizrahi, and Robert R. Clancy</i>	405
Chapter 34	Febrile Seizures <i>Michael Duchowny</i>	428
Chapter 35	Seizures Associated with Nonneurologic Medical Conditions <i>Stephan Eisenschenk, Jean Cibula, and Robin L. Gilmore</i>	438
Chapter 36	Epilepsy in Patients with Multiple Handicaps <i>John M. Pellock</i>	451
Chapter 37	Epilepsy in the Elderly <i>Ilo E. Leppik and Angela K. Birnbaum</i>	458
Chapter 38	Status Epilepticus <i>Howard P. Goodkin and James J. Rivello Jr.</i>	469
Section D Differential Diagnosis of Epilepsy		
Chapter 39	Psychogenic Nonepileptic Attacks <i>Selim R. Benbadis</i>	486
Chapter 40	Other Nonepileptic Paroxysmal Disorders <i>John M. Pellock</i>	495

PART IV ■ ANTIEPILEPTIC MEDICATIONS

Section A General Principles of Antiepileptic Drug Therapy

Chapter 41	Antiepileptic Drug Development and Experimental Models <i>H. Steve White</i>	506
Chapter 42	Pharmacokinetics and Drug Interactions <i>Gail D. Anderson</i>	513
Chapter 43	Initiation and Discontinuation of Antiepileptic Drugs <i>Varda Gross Tsur, Christine O'dell, and Shlomo Shinnar</i>	527
Chapter 44	Hormones, Catamenial Epilepsy, Sexual Function, and Reproductive Health in Epilepsy <i>Cynthia Harden and Robert Martinez</i>	540

Chapter 45	Treatment of Epilepsy During Pregnancy <i>Page B. Pennell</i>	557
Chapter 46	Bone Health and Fractures in Epilepsy <i>Raj D. Sheth and Alison Pack</i>	569
Chapter 47	Treatment of Epilepsy in the Setting of Renal and Liver Disease <i>Jane G. Boggs, Elizabeth Waterhouse, and Robert J. Delorenzo</i>	576
Chapter 48	Monitoring for Adverse Effects of Antiepileptic Drugs <i>L. James Willmore, John M. Pellock, and Andrew Pickens IV</i>	592
Chapter 49	Pharmacogenetics of Antiepileptic Medications <i>Tobias Loddenkemper, Tracy A. Glauser, and Diego A. Morita</i>	601
Section B Specific Antiepileptic Medications and Other Therapies		
Chapter 50	Carbamazepine and Oxcarbazepine <i>Carlos A. M. Guerreiro and Marilisa M. Guerreiro</i>	614
Chapter 51	Valproate <i>Angela K. Birnbaum, Susan E. Marino, and Blaise F. D. Bourgeois</i>	622
Chapter 52	Phenytoin and Fosphenytoin <i>Diego A. Morita and Tracy A. Glauser</i>	630
Chapter 53	Phenobarbital and Primidone <i>Blaise F. D. Bourgeois</i>	648
Chapter 54	Ethosuximide <i>Andres M. Kanner, Tracy A. Glauser, and Diego A. Morita</i>	657
Chapter 55	Benzodiazepines <i>Lazor John Greenfield, Jr., Howard C. Rosenberg, and Elizabeth I. Tietz</i>	668
Chapter 56	Gabapentin and Pregabalin <i>Michael J. McLean and Barry E. Gidal</i>	690
Chapter 57	Lamotrigine <i>Frank Gilliam and Barry E. Gidal</i>	704
Chapter 58	Topiramate <i>William E. Rosenfeld</i>	710
Chapter 59	Zonisamide <i>Timothy E. Welty</i>	723
Chapter 60	Levetiracetam <i>Joseph I. Sirven and Joseph F. Drazkowski</i>	731
Chapter 61	Tiagabine <i>Dana Ekstein and Steven C. Schachter</i>	736
Chapter 62	Felbamate <i>Edward Faught</i>	741
Chapter 63	Vigabatrin <i>Elizabeth A. Thiele</i>	747
Chapter 64	Rufinamide <i>Gregory Krauss and Stefanie Darnley</i>	753
Chapter 65	Lacosamide <i>Raj D. Sheth and Harry S. Abram</i>	758
Chapter 66	Adrenocorticotropin and Steroids <i>Cristina Y. Go and Orlando Carter Snead III</i>	763

xx Contents

Chapter 67	Newer Antiepileptic Drugs <i>Deana M. Gazzola, Norman Delanty, and Jacqueline A. French</i>	771
Chapter 68	Less Commonly Used Antiepileptic Drugs <i>Basim M. Uthman</i>	779
Chapter 69	The Ketogenic Diet <i>Douglas R. Nordli Jr. and Darryl C. De Vivo</i>	790
Chapter 70	Vagus Nerve Stimulation Therapy <i>James W. Wheless</i>	797

PART V ■ EPILEPSY SURGERY

Section A Identifying Surgical Candidates and Defining the Epileptogenic Zone

Chapter 71	Issues of Medical Intractability for Surgical Candidacy <i>Patrick Kwan and Martin J. Brodie</i>	810
Chapter 72	The Epileptogenic Zone <i>Anita Datta and Tobias Loddenkemper</i>	818
Chapter 73	MRI in Evaluation for Epilepsy Surgery <i>Ahsan N.V. Moosa and Paul M. Ruggieri</i>	828
Chapter 74	Video-EEG Monitoring in the Presurgical Evaluation <i>Jeffrey W. Britton</i>	844
Chapter 75	Nuclear Imaging (PET, SPECT) <i>William Davis Gaillard</i>	860
Chapter 76	Magnetoencephalography <i>Thomas Bast</i>	869
Chapter 77	Diffusion Tensor Imaging (DTI) and EEG-Correlated fMRI <i>Beate Diehl and Louis Lemieux</i>	877

Section B Mapping Eloquent Cortex

Chapter 78	Eloquent Cortex and the Role of Plasticity <i>Tobias Loddenkemper and Martin Staudt</i>	887
Chapter 79	Functional MRI for Mapping Eloquent Cortex <i>William Davis Gaillard</i>	899
Chapter 80	The Intracarotid Amobarbital Procedure <i>Robit Das and Tobias Loddenkemper</i>	906
Chapter 81	Intracranial Electroencephalography and Localization Studies <i>Fernando L. Vale and Selim R. Benbadis</i>	914

Section C Strategies for Epilepsy Surgery

Chapter 82	Surgical Treatment of Refractory Temporal Lobe Epilepsy <i>Tonicarlo R. Velasco and Gary W. Mathern</i>	922
Chapter 83	Focal and Multilobar Resection <i>Paula M. Brna and Michael Duchowny</i>	937
Chapter 84	Hemispherectomies, Hemispherotomies, and Other Hemispheric Disconnections <i>Jorge A. González-Martínez and William E. Bingaman</i>	948

Chapter 85	Multifocal Resections or Focal Resections in Multifocal Epilepsy	957
	<i>Howard L. Weiner, Jonathan Roth, and Stephen P. Kalhorn</i>	
Chapter 86	Nonlesional Cases	964
	<i>Elson L. So</i>	
Chapter 87	Hypothalamic Hamartoma	973
	<i>John F. Kerrigan</i>	
Chapter 88	Corpus Callosotomy and Multiple Subpial Transection	984
	<i>Michael C. Smith, Richard Byrne, and Andres M. Kanner</i>	
Chapter 89	Special Considerations in Children	993
	<i>Ajay Gupta and Elaine Wyllie</i>	
Chapter 90	Outcome and Complications of Epilepsy Surgery	1007
	<i>Lara Jehi, Jorge Martinez-Gonzalez, and William Bingaman</i>	
Chapter 91	Electrical Stimulation for the Treatment of Epilepsy	1021
	<i>S. Matthew Stead and Gregory A. Worrell</i>	

PART VI ■ PSYCHOSOCIAL ASPECTS OF EPILEPSY

Chapter 92	Cognitive Effects of Epilepsy and Antiepileptic Medications	1028
	<i>Kimford J. Meador</i>	
Chapter 93	Psychiatric Comorbidity of Epilepsy	1037
	<i>Beth Leeman and Steven C. Schachter</i>	
Chapter 94	Driving and Social Issues in Epilepsy	1051
	<i>Joseph F. Drazkowski and Joseph I. Sirven</i>	
Chapter 95	Achieving Health in Epilepsy: Strategies for Optimal Evaluation and Treatment	1057
	<i>Frank G. Gilliam</i>	
Appendix	Indications for Antiepileptic Drugs Sanctioned by the United States Food and Drug Administration	1062
	<i>Kay Kyllonen</i>	
	<i>Index</i>	1064

