

Contributors

EDITORS

PAUL A. NYQUIST, MD, MPH, FCCM, FAHA, FANA

Associate Professor of Neurology and Anesthesiology and Critical Care, Division of Neurocritical care, Departments of Anesthesia/Critical Care Medicine, Neurology and Neurosurgery, The Johns Hopkins Hospital, The Johns Hopkins School of Medicine, Baltimore, Maryland

MAREK A. MIRSKI, MD, PhD

Associate Professor of Anesthesiology and Critical Care Medicine, Neurology, Neurosciences Critical Care Unit, Director, Division of Neurosciences, Critical Care, The Johns Hopkins Medical Institutions,

Director, The Johns Hopkins Hospital; Vice-Chair, Professor of Neurology, Anesthesiology, and Neurosurgery, Departments of Neurology, Anesthesiology and Critical Care, Johns Hopkins Hospital, Baltimore, Maryland

RAFAEL J. TAMARGO, MD

Walter E. Dandy Professor of Neurosurgery, Professor of Neurosurgery and Otolaryngology-Head and Neck Surgery, Director of Cerebrovascular Neurosurgery, Neurosurgical Co-Director, The Johns Hopkins Neurocritical Care Unit, Department of Neurosurgery, The Johns Hopkins University School of Medicine, Baltimore, Maryland

AUTHORS

JOSEPH G. ADEL, MD

Department of Neurological Surgery, McGaw Medical Center, Northwestern University Feinberg School of Medicine, Chicago, Illinois

SALAH G. AOUN, MD

Department of Neurological Surgery, University of Texas Southwestern Medical Center, Dallas, Texas

ROCCO A. ARMONDA, MD

Walter Reed National Military Medical Center, Bethesda, Maryland

NEERAJ BADJATIA, MD, MS, FCCM

Associate Professor of Neurology, Neurosurgery, Anesthesiology, University of Maryland School of Medicine, Chief, Section of Neurocritical Care, R Adams Cowley Shock Trauma Center, University of Maryland Medical Center, Baltimore, Maryland

PERRY A. BALL, MD

Section of Neurosurgery; Department of Anesthesiology, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire

BERNARD R. BENDOK, MD, MSCI, FACS, FAANS, FAHA

Department of Neurological Surgery, McGaw Medical Center, Northwestern University Feinberg School of Medicine, Chicago, Illinois

ROSS BULLOCK, MD, PhD

Department of Neurosurgery, Lois Pope LIFE Center, Miller School of Medicine, University of Miami, Miami, Florida

JUSTIN M. CAPLAN, MD

Resident, Department of Neurosurgery, Johns Hopkins University School of Medicine, Baltimore, Maryland

WAN-TSU W. CHANG, MD

Departments of Neurology, Anesthesiology and Critical Care Medicine, and Neurosurgery, The Johns Hopkins School of Medicine, Baltimore, Maryland

GEOFFREY P. COLBY, MD, PhD

Assistant Professor of Neurosurgery, Department of Neurosurgery, Johns Hopkins University School of Medicine, Baltimore, Maryland

ALEXANDER L. COON, MD

Assistant Professor of Neurosurgery, Neurology, and Radiology, Department of Neurosurgery, Johns Hopkins University School of Medicine, Baltimore, Maryland

MARC R. DAOU, BA

Department of Neurological Surgery, McGaw Medical Center, Northwestern University Feinberg School of Medicine, Chicago, Illinois

TAREK Y. EL AHMADIEH, MD

Department of Neurological Surgery, McGaw Medical Center, Northwestern University Feinberg School of Medicine, Chicago, Illinois

NAJIB E. EL TECLE, MD

Department of Neurological Surgery, McGaw Medical Center, Northwestern University Feinberg School of Medicine, Chicago, Illinois

LINTON T. EVANS, MD

Section of Neurosurgery, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire

IVAN ROCHA FERREIRA DA SILVA, MD

Cerebrovascular Center, Cleveland Clinic, Cleveland, Ohio

ANTHONY R. FRATTALONE, MD

Clinical Fellow, Division of Neurocritical Care, Department of Anesthesiology and Critical Care Medicine, Johns Hopkins Medical Institutions, Baltimore; Assistant Professor of Neurology, Department of Neurology, Uniformed Services University of the Health Sciences, Bethesda, Maryland

EMILY J. GILMORE, MD

Assistant Professor, Department of Neurology, Yale-New Haven Hospital, Yale University School of Medicine, New Haven, Connecticut

DAVID M. GREER, MD, MA, FCCM, FAHA

Zimmerman and Spinelli Professor of Neurology and Neurosurgery, Vice Chairman, Department of Neurology, Yale-New Haven Hospital, Yale University School of Medicine, New Haven, Connecticut

JUDY HUANG, MD

Associate Professor of Neurosurgery, Co-Director, Neurosurgery Residency Program, Department of Neurosurgery, Johns Hopkins University School of Medicine, Baltimore, Maryland

DAVID Y. HWANG, MD

Assistant Professor, Department of Neurology, Yale-New Haven Hospital, Yale University School of Medicine, New Haven, Connecticut

ATUL KALANURIA, MD

Division of Neurocritical care, Departments of Anesthesia/Critical Care Medicine, Neurology and Neurosurgery, The Johns Hopkins School of Medicine, Baltimore, Maryland

RYAN KITAGAWA, MD

Department of Neurosurgery, Lois Pope LIFE Center, Miller School of Medicine, University of Miami, Miami, Florida

PETER D. LE ROUX, MD, FACS

Department of Neurosurgery, University of Pennsylvania, Philadelphia, Pennsylvania

GEOFFREY S.F. LING, MD, PhD, FAAN

Attending Physician, Division of Neurocritical Care, Department of Anesthesiology and Critical Care Medicine, Johns Hopkins Medical Institutions, Baltimore; Professor of Neurology, Department of Neurology, Uniformed Services University of the Health Sciences, Bethesda; Professor of Neurology, Colonel, Medical Corps, US Army, Bethesda, Maryland

STUART SCOTT LOLLIS, MD

Section of Neurosurgery, Dartmouth-Hitchcock Medical Center, Lebanon, New Hampshire

EDWARD MICHAEL MANNO, MD

Cerebrovascular Center, Cleveland Clinic, Cleveland, Ohio

MANJUNATH MARKANDAYA, MBBS

Divisions of Surgical/Trauma Critical Care, Neurosciences Critical Care, and Pulmonary/Critical Care Medicine, Cowley Shock Trauma Center, University of Maryland, Baltimore, Maryland

SCOTT A. MARSHALL, MD

Neurology and Critical Care, Department of Medicine, San Antonio Military Medical Center, Fort Sam Houston, Texas

ANNA T. MAZZEO, MD

Department of Anesthesia and Intensive Care, San Giovanni Battista Hospital, University of Turin; Department of Anesthesia and Critical Care, Azienda Ospedaliera Città della Salute e della Scienza di Torino-Presidio Molinette, University of Turin, Turin, Italy

MAREK A. MIRSKI, MD, PhD

Associate Professor of Anesthesiology and Critical Care Medicine, Neurology, Neurosciences Critical Care Unit, Director, Division of Neurosciences, Critical Care, The Johns Hopkins Medical Institutions, Director, The Johns Hopkins Hospital; Vice-Chair, Professor of Neurology, Anesthesiology, and Neurosurgery, Departments of Neurology, Anesthesiology and Critical Care, Johns Hopkins Hospital, Baltimore, Maryland

ALLAN D. NANNEY III, MD

Department of Neurological Surgery, McGaw Medical Center, Northwestern University Feinberg School of Medicine, Chicago, Illinois

PAUL A. NYQUIST, MD, MPH, FCCM, FAHA, FANA

Associate Professor of Neurology and Anesthesiology and Critical Care, Division of Neurocritical care, Departments of Anesthesia/Critical Care Medicine, Neurology and Neurosurgery, The Johns Hopkins Hospital, The Johns Hopkins School of Medicine, Baltimore, Maryland

MAURO ODDO, MD

Maître d'Enseignement et de Recherche, Faculty of Medicine and Biology, Service de Médecine Intensive Adulte, Medico-Surgical ICU, Centre Hospitalier Universitaire

Vaudois - CHUV, University of Lausanne, Lausanne, Switzerland

JOSE JAVIER PROVENCIO, MD

Cerebrovascular Center; Neuroinflammation Research Center, Cleveland Clinic, Cleveland, Ohio

ALEXANDER RAZUMOVSKY, PhD, FAHA

Sentient NeuroCare Services, Hunt Valley, Maryland

MARIANNA V. SPANAKI, MD, PhD, MBA

Department of Neurology, Henry Ford Hospital; Associate Professor of Neurology, Wayne State University School of Medicine, Detroit, Michigan

RAFAEL J. TAMARGO, MD

Walter E. Dandy Professor of Neurosurgery, Professor of Neurosurgery and Otolaryngology-Head and Neck Surgery, Director of Cerebrovascular Neurosurgery, Neurosurgical Co-Director, The Johns Hopkins Neurocritical Care Unit, Department of Neurosurgery, Johns Hopkins University School of Medicine, Baltimore, Maryland

PANAYIOTIS N. VARELAS, MD, PhD

Director NICU, Departments of Neurology and Neurosurgery, Henry Ford Hospital; Professor of Neurology, Wayne State University School of Medicine, Detroit, Michigan

SHOJI YOKOBORI, MD, PhD

Department of Neurosurgery, Lois Pope LIFE Center, Miller School of Medicine, University of Miami, Miami, Florida; Department of Emergency and Critical Care Medicine, Nippon Medical School, Tokyo, Japan