Anesthesia for Spine Surgery

Ehab Farag, M.D., F.R.C.A.
Staff Anesthesiologist, Departments of General Anesthesia and Outcomes Research, Cleveland Clinic, Ohio, USA
To my wife, my daughters, and my mother for their incessant prayers, help, and support and in memory of my late father
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Contributors

Alaa A. Abd-Elsayed
Resident Physician, Department of Anesthesiology, University of Cincinnati, Cincinnati, OH, USA

Basem Abdelmalak
Staff Anesthesiologist and Director, Anesthesia for Bronchoscopic Surgery, Anesthesiology Institute, Cleveland Clinic, Cleveland, OH, USA

Kalil G. Abdullah
Cleveland Clinic Lerner College of Medicine, Cleveland Clinic, Cleveland, OH, USA

Maged Argalious
Medical Director, PACU and Same Day Surgery; Assistant Professor, Cleveland Clinic Lerner College of Medicine, Case Western Reserve University, Cleveland, OH, USA

Rafi Avitsian
Section Head, Neurosurgical Anesthesiology; Program Director, Neuroanesthesia Fellowship; Assistant Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine Anesthesiology and Neurological Institutes, Cleveland Clinic, Cleveland, OH, USA

Maria Bauer
Clinical Research Fellow, Department of Outcomes Research, Institute of Anesthesiology, Cleveland Clinic, Cleveland, OH, USA

Edward C. Benzel
Chairman, Department of Neurosurgery, Neurological Institute, Cleveland Clinic, Cleveland, OH, USA

Dani S. Bidros
Cerebrovascular Center, Department of Neurosurgery, Cleveland Clinic, Cleveland, OH, USA

William Bingaman
Vice-Chairman, Neurological Institute, Department of Neurosurgery, Cleveland Clinic, Cleveland, OH, USA

Jay B. Brodsky
Professor, Department of Anesthesia, Stanford University School of Medicine, Stanford, CA, USA

David Brown
Chairman, Anesthesiology Institute, Cleveland Clinic, Cleveland, OH, USA

Patrick M. Callahan
Assistant Professor of Anesthesiology, University of Pittsburgh School of Medicine, Department of Anesthesiology, Children’s Hospital of Pittsburgh, Pittsburgh, PA, USA

Juan P. Cata
Instructor, Department of Anesthesiology and perioperative Medicine, Division of Anesthesiology and Critical Care, The University of Texas MD Anderson Cancer Center, Houston, TX, USA

Chakorn Chansakul
Clinical Neurophysiology Fellow, Epilepsy Center, Cleveland Clinic Neurological Institute, Cleveland, OH, USA

Jianguo Cheng
Program Director of Pain Medicine Fellowship, Departments of Pain Management and Neurosciences, Cleveland Clinic, Cleveland, OH, USA

Jeffrey G. Clark
Cleveland Clinic Lerner College of Medicine, Cleveland Clinic, Cleveland, OH, USA
List of contributors

Peter J. Davis
Professor of Anesthesiology and Pediatrics, University of Pittsburgh School of Medicine, Anesthesiologist-in-Chief, Department of Anesthesiology, Children's Hospital of Pittsburgh, Pittsburgh, PA, USA

Stacie Deiner
Assistant Professor of Anesthesiology, Neurosurgery, Geriatrics, and Palliative Care, Mount Sinai School of Medicine, New York, NY, USA

Xiao Di
Section of Pediatric and Congenital Neurosurgery, Department of Neurosurgery, Cleveland Clinic, Cleveland, OH, USA

Karen B. Domino
Professor, Department of Anesthesiology and Pain Medicine, University of Washington, Seattle, WA, USA

D. John Doyle
Staff Anesthesiologist, Cleveland Clinic, Cleveland, OH, USA

Zeyd Ebrahim
Vice-Chair for Operating Affairs, Department of General Anesthesiology, Cleveland Clinic, Cleveland, OH, USA

Ehab Farag
Staff Anesthesiologist, Departments of General Anesthesia and Outcomes Research, Cleveland Clinic, OH, USA

Gordon Finlayson
Clinical Instructor, Department of Anesthesiology, Pharmacology, and Therapeutics, Division of Critical Care Medicine, University of British Columbia, Vancouver, BC, Canada

Elizabeth A. M. Frost
Professor of Anesthesia, Mount Sinai Medical Center, New York, NY, USA

Matthew Grosso
Center for Spine Health, Cleveland Clinic, Cleveland, OH, USA

David P. Gurd
Staff Physician, Department of Orthopedic Surgery, Cleveland Clinic, Cleveland, OH, USA

Rodolfo Hakim
Section of Pediatric and Congenital Neurosurgery, Department of Neurosurgery, Cleveland Clinic, Cleveland, OH, USA

Robert Helfand
Staff Anesthesiologist, Anesthesiology Institute, Cleveland Clinic, Cleveland, OH, USA

Iain H. Kalfas
Surgeon, Center for Spine Health, Cleveland Clinic, Cleveland, OH, USA

Rami Karroum
Associate Staff Member, Department of Pediatric Anesthesiology, Cleveland Clinic, Cleveland, OH, USA

Michael Kelly
Department of Neurosurgery, Center for Spine Health, Cleveland Clinic, Cleveland, OH, USA

Stephen J. Kimatian
Chair, Pediatric Anesthesiology, Children's Hospital, Cleveland Clinic Foundation, Cleveland, OH, USA

Christian Koopman
Neuroradiology Fellow, Cleveland Clinic, Cleveland, OH, USA

Ajit A. Krishnaney
Associate Staff Physician, Center for Spine Health; Associate Staff Physician, Neurological Surgery; Associate Staff Physician, Cerebrovascular Center, Cleveland Clinic, Cleveland, OH, USA

Andrea Kurz
Department of Outcomes Research, Institute of Anesthesiology, Cleveland Clinic, Cleveland, OH, USA

Lorri A. Lee
Assistant Professor, Department of Anesthesiology and Pain Medicine, University of Washington, Seattle, WA, USA

Brian P. Lemkuil
Assistant Clinical Professor, Department of Anesthesia, University of California San Diego, CA, USA

James K. C. Liu
Resident, Department of Neurosurgery, Cleveland Clinic, Cleveland, OH, USA
List of contributors

Sara P. Lozano
Staff, Pediatric Anesthesiology, Cleveland Clinic, Cleveland, OH, USA

Daniel Lubelski
Cleveland Clinic Lerner College of Medicine, Cleveland Clinic, Cleveland, OH, USA

Mark Luciano
Head, Pediatric and Congenital Neurosurgery, Pediatric Neurosciences, Cleveland Clinic, Cleveland, OH, USA

Ramez Malaty
Neuroradiology Fellow, Cleveland Clinic, Cleveland, OH, USA

Mariel R. Manlapaz
Associate Staff, Department of General Anesthesiology, Cleveland Clinic, Cleveland, OH, USA

Edward M. Manno
Cerebrovascular Center, Department of Neurosurgery, Cleveland Clinic, Cleveland, OH, USA

Virgilio Matheus
Resident, Department of Neurosurgery, Cleveland Clinic, Cleveland, OH, USA

Robert F. McLain
Professor of Surgery and Director, Spine Surgery Fellowship Program, Cleveland Clinic Center for Spine Health, Cleveland, OH, USA

Nagy Mekhail
Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University and Cleveland Clinic Spine Center, Cleveland, OH, USA

Doksu Moon
Staff Neuroradiologist, Cleveland Clinic, Cleveland, OH, USA

Loran Soliman Mounir
Staff Member, Departments of General Anesthesia and Pediatric Anesthesia, Cleveland Clinic, Cleveland, OH, USA

Raghu Mudumbai
Associate Professor, Department of Ophthalmology, University of Washington, Seattle, WA, USA

Thomas E. Mroz
Director, Spine Surgery Fellowship Program, Neurological Institute, Center for Spine Health, Departments of Orthopedic and Neurological Surgery, Cleveland Clinic, Cleveland, OH, USA

Dileep R. Nair
Section Head, Epilepsy Center, Cleveland Clinic Neurological Institute, Cleveland, OH, USA

Julie Niezgoda
Staff, Pediatric Anesthesiology, Cleveland Clinic, Cleveland, OH, USA

R. Douglas Orr
Staff Physician, Center for Spine Health and Department of Orthopedic Surgery, Cleveland Clinic Foundation, Cleveland, OH, USA

Piyush M. Patel
Professor of Anesthesiology, Department of Anesthesia, University of California, San Diego; Staff Anesthesiologist, Veterans Affairs Medical Center, San Diego, CA, USA

Jason E. Pope
Napa Pain Institute, Napa, CA, USA

Manuel Saavedra
Division of Plastic Surgery and Neurosurgery Section, Department of Surgery, University of Puerto Rico, Medical Sciences Campus, San Juan, Puerto Rico

Kenneth J. Saliba
Surgeon, Department of Pediatric Anesthesiology, Children's Hospital, Cleveland Clinic Foundation, Cleveland, OH, USA

Richard Schlenk
Neurosurgery Residency Program Director, Center for Spine Health, Cleveland Clinic, Cleveland, OH, USA

John Seif
Associate Staff, Department of Pediatric Anesthesiology, Cleveland Clinic, Cleveland, OH, USA

John H. Shin
Department of Neurosurgery, Center for Spine Health, Neurological Institute, Cleveland Clinic, Cleveland, OH, USA
List of contributors

Jeffrey Silverstein
Professor of Anesthesiology, Neurosurgery, Geriatrics, and Palliative Care, Mount Sinai School of Medicine, New York, NY, USA

Dmitri Souzdalnitski
Clinical Fellow of Pain Medicine, Department of Pain Management, Cleveland Clinic, Cleveland, OH, USA

Michael Steinmetz
Center for Spine Health, Cleveland Clinic, Cleveland, OH, USA

Tunga Suresh
Assistant Professor of Anesthesiology, University of Pittsburgh School of Medicine, Department of Anesthesiology, Children's Hospital of Pittsburgh, Pittsburgh, PA, USA

John E. Tetzlaff
Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University; Staff Anesthesiologist, Department of General Anesthesia, Cleveland Clinic, Cleveland, OH, USA

Sherif Zaky
Staff Anesthesiologist, Department of Anesthesiology, Cleveland Clinic, Cleveland, OH, USA
Ehab Farag has assembled an incredible group of authors for this “first of a kind” book, *Anesthesia for Spine Surgery*. This book is the first comprehensive text devoted to the anesthetic management of the spine surgery patient. It addresses both the adult and pediatric domains. It is comprehensive in scope and detailed in content. *Anesthesia for Spine Surgery* addresses all aspects of the subject at hand. It begins with a group of dissertations on the variety of surgical procedures and the complications that can ensue. Chapters on imaging and surgical technique-specific nuances follow. These are followed by a variety of chapters that address specific spine anesthesia techniques and complications. The book closes with a number of discussions regarding pediatrics-related issues.

How good is this book? It is a “must read.” Why is it a “must read”?

First, it is a “first of its kind.” Hence, there is no competition. I am virtually certain that others will follow. They always do when pioneers open and develop a field.

Second, it “covers the field.” This cannot be underestimated as an attribute. *Anesthesia for Spine Surgery* is both deep and broad in content. It truly “covers the field” in many regards. It is thorough. It is comprehensive. It is organized both to facilitate a reading from cover to cover and to function as a reference.

Third, it is “a great read.” This book feels good in my hands and I feel at home while reading it. It is, in fact, difficult to put down. This is, in part, related to its unique position in the spine surgery and anesthesia domain. It is also related to its wonderful presentation.

This book covers everything, and I do mean everything, from visual complications to spinal cord injury. No stones are left unturned. It is a complete, comprehensive, and user-friendly text. It will soon become a great addition to the libraries of all spine surgeons, neurosurgeons, and orthopedic surgeons, and of all neuro-anesthesiologists, anesthesiologists, and related professionals. It is, indeed, a classic in the making.
Foreword by Dr. David Brown

It is a real pleasure to be asked to contribute a foreword to *Anesthesia for Spine Surgery* by Dr. Ehab Farag and colleagues. This useful text covers the entire spectrum of surgical and anesthetic procedures required to be at the forefront of clinical care for our patients requiring spine care. Ehab has assembled an outstanding list of contributors; all true experts in their area of clinical coverage. Many are colleagues at the Cleveland Clinic and others are recognized national experts.

Spinal surgery has developed over the last 20 years into a specialized field in which increasingly complex and lengthy surgical procedures are being carried out; these clearly demand an anesthetic approach that is equally intricate. The willingness of surgeons and anesthesiologists to share their approaches to complex and straightforward spinal surgical patients allows readers of this book to apply the most current approaches to minimizing morbidity and optimizing safety in their patients. The contributors to this book are made up of individuals with whom I would be fully comfortable in having them providing care for myself or members of my family at any time. They truly are experts.

I congratulate all involved in creating this important work and hope that it really adds value to your care of this important group of patients.
Preface

Spine surgery has evolved in the last two decades into a multidisciplinary specialty including surgery, pain management, neuromonitoring, and neuroradiology. This book is the first comprehensive textbook for anesthesia for spine surgery in both adults and pediatric patients. I believe that in order for the anesthesiologist to provide adequate perioperative care, the anesthesiologist should be armed with the proper knowledge of the different facets of the specialty for which he or she administers the anesthetic. This book serves that belief, for it covers the techniques of surgical procedures described to the anesthesiologist in a simple approach by world-renowned surgeons. The other aspects of the spine surgery specialty (pain management for acute and chronic pain after spine surgery, intraoperative neuromonitoring, and neuroimaging) are fully covered by well-versed experts in those fields.

This book is a very useful resource for anesthesiologists involved in anesthesia for spine surgery, spine surgeons, neurologists, and other health care providers caring for spine surgery patients. Included are chapters for perioperative anesthetic management in adult and pediatric patients, which cover the preoperative evaluation, airway management, lung isolation, fluid management, and postoperative care both in the postanesthesia care unit and in intensive care. The book has chapters that cover in full detail the intraoperative anesthetic management from cervical to lumbosacral regions. The anesthetic and surgical complications during spine surgery are discussed in full detail as well.

I would like to express my gratitude to my colleagues for their hard work and dedication in accomplishing this book. I would also like to acknowledge the help and support of my editorial assistants at Cleveland Clinic and the Cambridge University Press team.

Ehab Farag, M.D., F.R.C.A.