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Edited by Sulpicio G. Soriano , Craig D. McClain  
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*Edited by*

**Sulpicio G. Soriano**

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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.

This book is dedicated to my family (Carmen A. Perez, Richard, Steven, Laura, Teresa, Sara, Kristen, Isa, Koa and Leo Soriano) and mentors (Babu V. Koka and Gerald A. Gronert) who have blessed me with unwavering support and guidance.

SGS

I would like to dedicate this work to the three groups of people that I will forever be indebted to for anything good I've been able to do in my life. First and foremost, I want to thank my family—Natalie, Isla, Callum, and Finlay as well as the extended McClains, Murphys, and Vuyks. Thanks for your continued support, patience, and understanding. I am an incredibly lucky man to have you all in my life, and I love you all so very much. Second, I'd like to thank my mentors throughout my training and practice who have tried to teach me how to be a good and caring doctor. A complete list is impossible, but I'd like to single out Terry Yemen, Keith Littlewood, Sol Soriano, Mike McManus, and Bob Holzman as folks that I find myself quoting and emulating on a daily basis. Finally, and most importantly to this book, I'd like to thank the patients and families that have allowed me to participate in their care and hopefully help them as they negotiate often Promethean tasks. I am humbled on a daily basis by the grace with which they go about their lives during times that are often unfathomably difficult. Thank you.

CDM

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## Preface

This book was written to provide practical recommendations for the perioperative management of neurosurgical procedures in pediatric patients. The constant evolution in the care of infants and children with neurosurgical conditions and the recognition of age-related differences in the surgical lesions, anatomy, and physiological responses to surgery and anesthesia have fueled pediatric subspecialization by our colleagues in neurosurgery and critical

care. The guidance prescribed by these chapters is founded on anatomy, physiology, and pharmacology unique to the infant and child and is based on the expertise and experience of international authorities on the care of pediatric neurosurgical patients. This approach ensures that best practices in pediatric neuroanesthesia are part of the repertoire and skill set of the reader as technological innovations in neurosurgery and interventional neuroradiology emerge.

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