

Contents

Foreword	vii
Preface	ix
Contributors	xiii
1 Introduction	1
<i>Jose I. Suarez</i>	
2 Organization of a Neuroscience Critical Care Unit: <i>Historical Perspectives</i> and <i>Vision for the Future</i>	9
<i>Chere Monique Chase and John A. Ulatowski</i>	
3 Cerebral Blood Flow Physiology and Monitoring	23
<i>Michel T. Torbey and Anish Bhardwaj</i>	
4 Cerebral Metabolism: <i>Implications for Neurocritically Ill Patients</i>	37
<i>Maria Briones-Galang and Claudia Robertson</i>	
5 Cerebral Edema and Intracranial Dynamics: <i>Monitoring and Management</i> of <i>Intracranial Pressure</i>	47
<i>Matthew Eccher and Jose I. Suarez</i>	
6 Neurologic and Systemic Monitoring in the NSU	101
<i>Daniel W. Miller and Jose I. Suarez</i>	
7 Neuroimaging in Neuroemergencies	123
<i>Jeffrey L. Sunshine and Robert W. Tarr</i>	
8 Cardiac Monitoring in the Neurosciences Critical Care Unit	137
<i>Dinesh Arab, Jawad F. Kirmani, Andrew R. Xavier, Abutaher M. Yahia,</i> <i>Jose I. Suarez, and Adnan I. Qureshi</i>	
9 Ventilatory Management in the Neurosciences Critical Care Unit	151
<i>David L. McDonagh and Cecil O. Borel</i>	
10 Treatment of Autonomic Disorders Requiring Intensive Care Management	167
<i>Marek Buczek, Jose I. Suarez, and Thomas C. Chelimsky</i>	
11 Management of Medical Complications in the Neurosciences Critical Care Unit	193
<i>Jose L. Diaz, Marcela Granados, and Jose I. Suarez</i>	
12 Sedation and Analgesia in the Critically Ill Neurology and Neurosurgery Patient	221
<i>Mitzi K. Hemstreet, Jose I. Suarez, and Marek A. Mirski</i>	
13 Blood Pressure Management in the Neurocritical Care Patient	247
<i>Wendy C. Ziai and Marek A. Mirski</i>	
14 Nutrition and Diet Therapy in the Neurosciences Critical Care Unit	267
<i>Nancy A. Newman</i>	
15 Bioethical Issues in the Neurosciences Critical Care Unit	287
<i>Jose I. Suarez and Stuart Youngner</i>	

16	Coma and Brain Death	301
	<i>Alexandros L. Georgiadis, Romergryko Geocadin, Jose I. Suarez, and Osama O. Zaidat</i>	
17	Endovascular Therapy and Neurosciences Critical Care	315
	<i>Jawad F. Kirmani, Ricardo A. Hanel, Andrew R. Xavier, Abutaher M. Yahia, and Adnan I. Qureshi</i>	
18	Neurointensive Care of the Acute Ischemic Stroke Patient	335
	<i>Neeraj Badjatia, Thanh N. Nguyen, and Walter J. Koroshetz</i>	
19	Management of Nontraumatic Intracerebral Hemorrhage	353
	<i>Eliahu S. Feen, Aleksandyr W. Lavery, and Jose I. Suarez</i>	
20	Subarachnoid Hemorrhage	365
	<i>Nicholas C. Bambakidis and Warren R. Selman</i>	
21	Cerebral Venous Sinus Thrombosis	379
	<i>Zeyad Marcos and Sophia Sundararajan</i>	
22	Traumatic Head Injury	395
	<i>Sandra Kuniyoshi and Jose I. Suarez</i>	
23	Spinal Cord Injury and Related Diseases	417
	<i>Joy Derwenskus and Osama O. Zaidat</i>	
24	Postoperative Management in the Neurosciences Critical Care Unit	433
	<i>Tina Rodrigue and Warren R. Selman</i>	
25	Status Epilepticus	449
	<i>Dakshin Gullapalli and Thomas P. Bleck</i>	
26	Myasthenic Crisis	469
	<i>Nazli Janjua and Stephan A. Mayer</i>	
27	Critical Care of Guillain-Barré Syndrome	481
	<i>Michel T. Torbey and J. Ricardo Carhuapoma</i>	
28	Less Common Causes of Quadriplegia and Respiratory Failure	493
	<i>Michel T. Torbey, Jose I. Suarez, and Romergryko Geocadin</i>	
29	Infections of the Central Nervous System	515
	<i>Ronald G. Riechers, II, Abel D. Jarell, and Geoffrey S. F. Ling</i>	
30	Neuro-Ophthalmologic Evaluation of the ICU Patient	533
	<i>Eroboghene E. Ubogu and R. John Leigh</i>	
31	Management of the Patient With Mitochondrial Disease in the Neurosciences Critical Care Unit	541
	<i>Julio A. Chalela</i>	
32	Neurocritical Care During Pregnancy and Puerperium	553
	<i>Panayiotis N. Varelas and Lotfi Hachein-Bey</i>	
33	Nursing Care in the Neurosciences Critical Care Unit	571
	<i>Janice L. Hickman</i>	
34	Outcomes of Neurosciences Critical Care	581
	<i>Gene Sung</i>	
	Appendices	589
	Index	613