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Dedication; About the Editors; Contributors; Contents; Chapter 1: Introduction Christy Denius, Irma Fiordalisi, Susan B. Fox; reviewed by Catherine Brailer; 1.1 How to Use This Book; 1.2 General Approach to the Critically Ill Child; 1.3 Transport of the Critically Ill Child; 1.4 Patient and Family Centered Care; 1.5 Quality and Safety in the PICU; Chapter 2: Care of the Pediatric Airway, Breathing and Respiratory System Andora Bass, Irma Fiordalisi, Karl W. Kaminski, William E. Novotny, Ronald M. Perkin, Jeffrey Schmidt, Debra Tristram, E. Michael Villareal reviewed by M. Gowans and D. Haislip 2.1 Apnea; 2.1.1 Apparent life-threatening events; 2.2 Upper Airway Obstruction; 2.3 Lower Airway Obstruction; 2.3.1 Acute severe asthma; 2.3.2 Bronchiolitis; 2.4 Foreign Bodies in the Airways; 2.5 Pneumonia and Pleural Fluid; 2.6 Chronic Lung Disease; 2.7 Respiratory Failure; 2.8 Mechanical Support of Ventilation; 2.8.1 Invasive mechanical ventilation; 2.8.2 Noninvasive ventilation; 2.9 Other Aids to Support Oxygenation and Ventilation; 2.10 Respiratory Failure in Neuromuscular Disorders (NMD) Chapter 3: Care of the Circulation David Fairbrother, Irma Fiordalisi, William E. Novotny and Jeffrey Schmidt reviewed by M. Gowans and J. Sperka; 3.1 Determinants of Cardiac Output and Oxygen Delivery; 3.2 Cardiopulmonary Interactions; 3.3 Cardiopulmonary Resuscitation in Infants and Children; 3.4 Arrhythmias; 3.5 Shock; 3.6 Septic Shock and Multiple Organ Dysfunction Syndrome (MODS); Chapter 4: Heart Disease, Cardiac Surgery and Peri-Operative Care Andora Bass, David Fairbrother, David Hannon, Charlie Sang, Robert Dennis Steed and Joel Vanderford; reviewed by M. Gowans 4.1 Acquired Heart Disease 4.1.1 Myocarditis; 4.1.2 Pericarditis; 4.2 Heart Failure; 4.3 Pulmonary Hypertension; 4.4 Congenital Heart Disease and Peri-operative Care; Obstructive Lesions; Cyanotic Heart Lesions; Cyanotic Lesions with Complete Mixing of Venous Return; Chapter 5: Central Nervous System Irma Fiordalisi, William E. Novotny, Debra Tristram; reviewed by Dynita Haislip, and Joel Vanderford; 5.1 Altered Mental Status; 5.2 Status Epilepticus; 5.3 Hypoxic-Ischemic Encephalopathy; 5.4 CNS Infections and Acute Disseminated Encephalomyelitis 5.5 Raised Intracranial Pressure and Cerebral Resuscitation Principle of Compensation; 5.6 Brain Death and Organ Procurement; Chapter 6: Fluids, Electrolytes and Metabolism Irma Fiordalisi, Glenn D. Harris, William E. Novotny, Jennifer Sutter; reviewed by Catherine Brailer; 6.1 Dehydration; 6.2 Electrolyte Disturbances; 6.2.1 Hyponatremia; 6.2.2 Hypernatremia; 6.2.3 Hypokalemia; 6.2.4 Hyperkalemia; 6.2.5 Magnesium; 6.2.6 Calcium and phosphorus homeostasis; 6.3 Acid-Base Imbalance; 6.4 Hypoglycemia and Hyperglycemia; 6.5 Inborn Errors of Metabolism; 6.6 Diabetic Ketoacidosis 6.7 Adrenal Insufficiency

## Sommario/riassunto

This book is a clinical guide in the practice of pediatric critical care and can serve as a roadmap for an introductory journey through this broad and challenging subspecialty. Key topics intrinsic to the practice of pediatric critical care are addressed from an organ-system and disease-specific perspective, and tailored to the needs of new learners. Comprehensive, practical and up-to-date information is provided in a user-friendly format that facilitates both learning and care implications. Each topic is analyzed and discussed in a custom-built section to provide both an overview and the nece