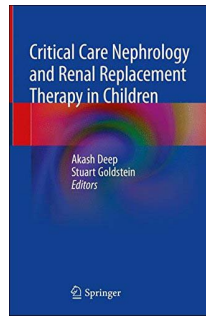


CRITICAL CARE NEPHROLOGY AND RENAL REPLACEMENT THERAPY IN CHILDREN



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DESCRIPTION:

This book represents an invaluable resource for professionals for the diagnosis and treatment of acute kidney injury (AKI) in children and how to select and deliver the appropriate form of renal replacement therapy (RRT). Experts from all over the globe have come together to share their wide experience in the field of Critical Care Nephrology in children.

Paediatric critical care nephrology is a complex and highly specialised field, presenting challenges and management strategies that are often quite distinct from those seen in adult practice. Therefore, it is high time to address all the topics in the field of critical care nephrology in children in a unique book which is the first of its kind. This book covers the basics as well as advances in the field of Critical Care Nephrology. Each chapter is dedicated to practical aspects of a particular topic elucidating various management decision points. Each chapter is also accompanied with algorithms, figures and protocols in tabulated format. Information on how to manage specific conditions are contextualized with relevant background anatomy, physiology and biochemistry and practical examples. At the end of the chapter, there are key learning points.

Paediatricians, nephrologists and paediatric intensivists, as well as paediatric critical care and nephrology nurses in all countries will find this book an invaluable reference text.

CONTENTS:**Part I. Acute Kidney Injury.**

- Evolution of Acute Kidney Injury in the last 2 decades.
- Renal function monitoring in a critically sick patient.
- Acute Kidney Injury-Definitions and Epidemiology.
- Biomarkers in AKI.
- Neonatal AKI including new devices.
- Sepsis Associated AKI.
- Acute Kidney Injury in a child after cardiopulmonary.
- Bypass, post cardiac surgery and Cardio-renal Syndromes.
- Acute Kidney Injury in stem cell transplant recipients.
- Hemolytic Uremic Syndrome.
- Acute Kidney Injury in liver disease.
- Renal emergencies in PICU - electrolyte, acid base and blood pressure issues.
- Nutrition in a child with Acute Kidney Injury and on CRRT.
- Outcomes and Renal Recovery.

Part II. Renal Replacement Therapy.

- Continuous Renal Replacement Therapy - Technology and Basic concepts.
- Timing of initiation of CRRT.
- Management considerations for the delivery of CRRT in children.
- Anticoagulation in CRRT.
- Haemodialysis.
- Sustained Low Efficiency Dialysis (SLED) and hybrid therapies - Principles and Management.
- Peritoneal Dialysis.
- Plasmapheresis and Total plasma exchange in the PICU.
- Tandem Therapies in Extracorporeal support.
- Pharmacology of drugs in critically ill patient with AKI and renal replacement therapy.
- CRRT nursing programme Development.
- Future of Paediatric AKI and CRRT.

Part III. CRRT in Specific Disease States.

- CRRT in a child in cardiac ICU.
- CRRT in a child with sepsis and multi-organ failure.
- Hyperammonaemia and Inborn Errors of metabolism (IEM).
- CRRT in Exogenous Intoxications.
- CRRT in Liver Failure and other liver assist devices.

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