
Critical Care Nephrology

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Blood Purification in Intensive Care

Critical Care Pediatric Nephrology and Dialysis: A Practical Handbook

Onco-Nephrology E-Book

Acute Kidney Injury

Critical Care Nephrology

Acute Nephrology for the Critical Care Physician

Handbook of Critical Care Nephrology

Renal and Metabolic Disorders

Applied Cardiovascular Physiology

Advances in Critical Care Pediatric Nephrology

Continuous Renal Replacement Therapy

Pediatric Nephrology in the ICU

Handbook of Dialysis

Nephrology and Hypertension Board Review

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Chronic Kidney Disease, Dialysis, and Transplantation E-Book

Oxford Textbook of Critical Care
Intensive Care in Nephrology
Critical Care Nephrology and Renal Replacement Therapy in Children
Critical Care Nephrology
Acute Renal Failure in the Critically Ill
Critical Care Nephrology, an Issue of Critical Care Clinics
Basic Principles of Critical Care Nephrology
Aspects in Continuous Renal Replacement Therapy
Nephrology, An Issue of Critical Care Nursing Clinics of North America, E-Book
Handbook of Critical Care Nephrology
Renal Failure and Replacement Therapies
Critical Care Nephrology E-Book
Critical Care Nephrology and Renal Replacement Therapy in Children
Palliative Care in Nephrology
Point of Care Ultrasound E-book
Cardiorenal Syndromes in Critical Care
Absolute Nephrology Review
Acute Kidney Injury and Critical Care Nephrology
Renal Pathophysiology
Controversies in Acute Kidney Injury

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Nephrology*

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LACEY WHITEHEAD

Critical Care Nephrology

Karger Medical and
Scientific Publishers

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.

Blood Purification in

Intensive Care Oxford University Press
Critical care nephrology is an emerging multidisciplinary science in which the competences of different specialists are merged to provide a unified diagnostic and therapeutic approach to the critically ill patient. The volume at hand places great emphasis on cardiorenal syndromes and the multidisciplinary collaboration between cardiology and nephrology. Several contributions describe the cardiorenal syndrome in

its different varieties and subtypes and report the results from the most recent Acute Dialysis Quality Initiative Consensus Conference, as well as proposing new diagnostic approaches based on early biomarkers of AKI. Other papers discuss advances in technology for renal replacement therapy and multiple organ support therapy. Moreover, special emphasis is placed on the potential role of extracorporeal therapies in patients affected by H1N1 influenza, and a

summary of the most recent trials in the field is included. Containing the proceedings of the 2010 International Vicenza Course on Critical Care Nephrology, this publication is a state-of-the-art appraisal of today's technology and current issues related to cardiorenal syndromes. Critical Care Pediatric Nephrology and Dialysis: A Practical Handbook Oxford University Press, USA
The revised, updated Fourth Edition of this popular handbook

provides practical, accessible information on all aspects of dialysis, with emphasis on day-to-day management of patients. Chapters provide complete coverage of hemodialysis, peritoneal dialysis, special problems in dialysis patients, and problems pertaining to various organ systems. This edition reflects the latest guidelines of the National Kidney Foundation's Kidney Disease Outcomes Quality Initiative (KDOQI) on hemodialysis and peritoneal dialysis

adequacy and on nutrition. New chapters cover chronic kidney disease management in predialysis patients, frequent daily or nocturnal hemodialysis, and hemodiafiltration. Chapters on venous and arteriovenous access have been completely revised. Each chapter provides references to relevant Web sites. *Onco-Nephrology E-Book* Lippincott Williams & Wilkins
Continuous Renal Replacement Therapy (CRRT) is the standard of

care for management of critically ill patients with acute renal failure. Part of the Pittsburgh Critical Care series, Continuous Renal Replacement Therapy provides concise, evidence-based, bedside guidance about this treatment modality, offering quick reference answers to clinicians' questions about treatments and situations encountered in daily practice. Organized into sections on theory, practice, special situations, and organizational issues, this

volume provides a complete view of CRRT theory and practice. Tables summarize and highlight key points, and key studies and trials are included in each chapter. The second edition has been updated to include a new chapter on the use of biomarkers to aid in patient selection and timing, extensive revisions on terminology and nomenclature to match current standards, and the most up-to-date information on newly developed CRRT machines.

Acute Kidney Injury
Springer Science & Business Media
Contains expanded content on economics and outcomes of treatment, as well as acute kidney injury. Covers hot topics such as the genetic causes of chronic kidney disease, ethical challenges and palliative care, and home hemodialysis. Discusses the latest advances in hypertensive kidney disease, vitamin D deficiency, diabetes management, transplantation, and

more. Provides a clear visual understanding of complex information with high-quality line drawings, photographs, and diagnostic and treatment algorithms.

Critical Care Nephrology

Springer Nature

Acute kidney injury (AKI) is a serious and as yet incompletely understood disorder in which sudden impairment of kidney function occurs secondary to one or more of a variety of underlying conditions. This disorder is very common in (elderly) ICU patients and

is associated with very high mortality. Many of those who survive suffer from permanent kidney failure and other long-term morbidities, which may include cardiovascular disease and immune dysfunction. Epidemiologic evidence suggests that AKI is not a single disease, but a syndrome comprised of multiple, often coexisting, etiologies. Being usually part of multiorgan failure syndrome, it calls for multiple organ support therapy. The publication at hand contains sections on

prerenal azotemia syndromes, dying 'of' or 'with' AKI, pathophysiology of sepsis-induced acute kidney injury, developments in prevention / treatment / rehabilitation, and renal support. Reporting the latest recommendations from experts, it provides valuable information for those that are interested in understanding the disorder and its treatment options.

Acute Nephrology for the Critical Care Physician

Elsevier Health Sciences
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. Handbook of Critical Care

Nephrology Karger
Medical and Scientific
Publishers

In the last twenty years, critical care medicine has been established as a specialty with its own therapies and procedures, with significant implications for clinical nephrology regarding severe acute renal failure. This typically multifactorial condition is today predominantly seen in intensive care units. The complex knowledge and skills necessary to handle it have resulted in a field called Critical Care

Nephrology, where nephrologist and intensivist either work side by side or have formally acquired expertise and training in both specialties. Extracorporeal renal replacement therapies, although originally used to treat end-stage renal disease patients, rapidly gained importance for acute patients. This has had far-reaching implications for the initiation and possible role of blood purification in the management of critically ill patients, widening the

scope of interaction between the nephrologist and the intensivist. Experts in the field have contributed to the present book, providing a comprehensive review of the different blood purification techniques relevant in the intensive care unit in the case of multiple organ failure. The resulting mix of established knowledge and recent results from both clinical trials and basic research constitutes a valuable tool for all professionals involved in the care of the critically ill

patient.

Renal and Metabolic Disorders Springer

Acute kidney injury is defined as an abrupt change in serum creatinine and/or urine output, and a majority of patients admitted to the ICU have some evidence of the disorder.

Unfortunately, treatment for this complex syndrome is as yet lacking and understanding is limited. An interdisciplinary panel of experts has contributed to this volume, illuminating some of the fundamental

and complex aspects of the disorder ranging from pathophysiology to treatment, from emerging biomarkers to genetic polymorphisms. Other contributions focus on immunological issues or the many complications of acute kidney injury and co-morbid conditions encountered, covering the fundamentals as well as the latest developments. Moreover, important technical aspects of extracorporeal therapies including vascular access, anticoagulation or fluid composition are

introduced, and different approaches to renal support from intermittent dialysis to continuous therapies and hybrid techniques are discussed. A description of advanced extracorporeal techniques of organ support and their role in the management of sepsis and acute kidney injury in the context of an overall strategy of multi-organ failure management concludes the discussions. This volume not only provides a practical and up-to-date summary of current knowledge and

technology, but also imparts a fundamental understanding of the pathogenesis and likely future developments in this field. It also serves to challenge and re-examine the fundamental underlying assumptions we hold regarding critical illness in general and acute kidney injury in particular.

Applied Cardiovascular Physiology Elsevier Health Sciences

Over the last 10 years the syndrome of severe acute renal failure has progressively changed in

its epidemiology. It is now most frequently seen in critically ill patients, typically in the context of sepsis and multiorgan failure. This epidemiologic change has meant that intensive care physicians and nephrologists must now work in close cooperation at all times and must take many complex issues of prevention, pathogenesis, and management into account that they did not previously have to tackle. Simultaneously, the last 10 years have seen the development of major

technical and conceptual changes in the field of renal replacement therapy. There are now previously unavailable therapeutic options that provide physicians with a flexible and rapidly evolving armamentarium. The nutrition of these patients, previously limited by the partial efficacy of renal replacement therapies, has also become more aggressive and more in tune with the needs of critically ill patients. Increased understanding of the pathogenesis of the

multi organ failure syndrome has focused on the role of many soluble "mediators of injury" (cytokines, leukotrienes, prostanoids etc.). These molecules are likely to participate in the pathogenesis of acute renal failure. Their generation and disposal is also affected by different techniques of artificial renal support.

Advances in Critical Care Pediatric Nephrology BoD – Books on Demand

This book presents a road map of the interactions among metabolic,

electrolyte, acid-base and endocrine problems and suggesting clear lines of action for the ICU clinician. Each chapter provides guidelines for understanding "how did we get here" and "what should we do now", as quickly and safely as possible.

Continuous Renal Replacement Therapy

Nova Biomedical Books

Comprehensive and clinically relevant, the 3rd Edition of *Critical Care Nephrology* provides authoritative coverage of the latest advances in

critical care procedures for patients with renal diseases or disorders. Using common guidelines and standardized approaches to critically ill patients, this multidisciplinary reference facilitates better communication among all physicians who care for critically ill patients suffering from kidney disease, electrolyte and metabolic imbalances, poisoning, severe sepsis, major organ dysfunction, and other pathological events. Offers detailed

discussions of different forms of organ support, artificial organs, infections, acute illness occurring in chronic hemodialysis patients, and much more. Places a special emphasis on therapeutic interventions and treatment procedures for a hands on clinical reference tool. Presents information clearly, in a format designed for easy reference - from basic sciences to clinical syndromes to diagnostic tools. Covers special populations such as children, diabetic

patients, and the elderly. An exceptional resource for nephrologists, intensivists, surgeons, or critical care physicians - anyone who treats critically ill renal patients. Shares a combined commitment to excellence lead by Drs. Claudio Ronco, Rinaldo Bellomo, John Kellum, and Zaccaria Ricci - unparalleled leaders in this field. Addresses key topics with expanded coverage of acute kidney injury, stress biomarkers, and sepsis, including the latest developments on

mechanisms and management. Provides up-to-date information on extracorporeal therapies from new editor Dr. Zaccaria Ricci.

Pediatric Nephrology in the ICU CRC Press

This text offers medical students a case-based approach to learning the mechanisms of renal disease. Each chapter covers a disease, beginning with a patient case and followed by a discussion of the pathophysiology of the disease. Issues of differential diagnosis and

therapy are linked to pathophysiologic mechanisms. Short questions interspersed throughout the text require students to apply their knowledge. Detailed answers to the questions are included. New to this edition: Full-color artwork and design New color photomicrographs of clinical conditions Additional end-of-chapter summaries Up-to-date information based on new medical findings
Handbook of Dialysis
 Karger Medical and Scientific Publishers

Regarded as the “go-to” book for those seeking certification and recertification in nephrology with the American Board of Internal Medicine, Nephrology and Hypertension Board Review prepares you for success on the nephrology board exam. The fully updated second edition proportionally covers all topics listed in the blueprint for the exam, using a concise outline format, numerous illustrations, and many new features that

promote high-yield studying and effective retention of complex material. Board-type questions in every chapter provide ample opportunity to practice and help you identify areas for further study.
Nephrology and Hypertension Board Review Springer Science & Business Media
 The book covers advances in critical care pediatric nephrology, including care of sick children with acute kidney injury. The book contains detailed guidance on point of care

ultrasound in children with acute kidney injury and use of biomarkers in critically sick children. This is an annual theme-based book with the current theme of 'point of care ultrasound in critical care pediatric nephrology and newer diagnostics in acute kidney injury'. This is the first book of the set of books to be published annually with a different theme related to critical care pediatric nephrology each year with the collaboration of the Pediatric Continuous Renal Replacement Therapy

(PCRRT) Foundation and International Collaboration of Nephrologists & Intensivists for Critical Care in Children (ICONIC). This annual updates book contains 20 chapters, written and edited by leading experts in pediatric intensive care, pediatric nephrology and nephrologists specializing in point of care ultrasound from across the globe. It includes top studies in the last few years in critical care pediatric nephrology on point of care ultrasound and

diagnostics. Chapters cover scientifically updated information by international experts on each topic. It offers assistance to pediatricians, pediatric nephrologists, pediatric intensivists and residents. Blood Purification in Intensive Care Elsevier Health Sciences
Designed specifically for nephrologists and trainees practicing in the ICU, Handbook of Critical Care Nephrology is a portable critical care reference with a unique and practical nephrology

focus. Full-color illustrations, numerous algorithms, and intuitively arranged contents make this manual a must-have resource for nephrology in today's ICU.

Chronic Kidney Disease, Dialysis, and

Transplantation E-Book

Springer Science & Business Media

This book covers all key aspects of critical care in pediatric nephrology, including acute dialysis in sick children. It also provides detailed protocols for managing fluid and electrolyte

balance and dialysis in children in intensive care. In addition, this quick guide discusses innovations in pediatric renal replacement therapy technologies, such as plasma exchange, CARPEDIEM, NIDUS and aquadex. This is a go-to book for intensivists, physicians and trainees working in pediatric intensive care units.

Oxford Textbook of Critical Care Elsevier Health Sciences

Acute kidney injury (AKI) is a common diagnosis in daily clinical practice,

occurring in virtually all fields of medicine. Critically ill patients are especially prone to the development of AKI due to frequent haemodynamic instability, multiple risk factors and, diagnostic and/or treatment complications. Severe AKI substantially prolongs the intensive care unit (ICU) length of stay, with increased risk of death. AKI is also a predisposing factor for multiple organ dysfunction syndrome and is usually a part of it. For these and other reasons, critical care nephrology

plays an irreplaceable role in treating critically ill patients in ICUs. The current trend in medicine generally not only in critical care nephrology is to gather as much scientific knowledge as possible and in medicine, everything is interrelated. Further, knowledge of pathophysiology and understanding the causes of illness come in an era of increasing polypharmacy and the escalating side effects of drugs. The latter can cause conditions with the same clinical picture as

immune system disorders, viruses and bacteria. Another issue is poisonings and drug intoxications, which are a daily issue in ICU settings. In short, the aetiological spectrum of disease has expanded. This book presents the basic principles in critical care nephrology and covers the epidemiology, pathophysiology, the most frequent syndromes, poisonings and conservative or invasive treatment options. The aim is to present an easily understandable overview

using relevant scientific research results, along with the authors own practical clinical experience from the University Hospital of Ostrava in the Czech Republic. The authors believe that this textbook will be useful to physicians who have to make rapid diagnoses and decision making in daily ICU practice. *Intensive Care in Nephrology* Springer Science & Business Media Written in a succinct question and answer format, this

comprehensive resource covers all areas of nephrology and common clinical scenarios. Nearly 1000 questions with detailed answers provide nephrology fellows, practicing nephrologists and clinicians a better understanding of nephrology and aid preparations for nephrology and internal medicine boards. Absolute Nephrology Review features the latest evidence and guidelines while fulfilling a critical need within the nephrology community.

Critical Care Nephrology and Renal Replacement Therapy in Children Elsevier Health Sciences
Palliative care has become increasingly important across the spectrum of healthcare, and with it, the need for education and training of a broad range of medical practitioners not previously associated with this field of care. As part of the Integrating Palliative Care series, this volume on palliative care in nephrology guides readers through the core

palliative knowledge and skills needed to deliver high value, high quality care for seriously ill patients with chronic and end-stage kidney disease. Chapters are written by a team of international leaders in kidney palliative care and are organized into sections exploring unmet supportive care needs, palliative care capacity, patient-centered care, enhanced support at the end of life, and more. Chapter topics are based on the Coalition for Supportive Care of Kidney

Patients Pathways Project change package of 14 evidence-based best practices to improve the delivery of palliative care to patients with kidney disease. An overview of the future of palliative care nephrology with

attention to needed policy changes rounds out the text. Palliative Care in Nephrology is an ideal resource for nephrologists, nurses, nurse practitioners, physician assistants,

social workers, primary care clinicians, and other practitioners who wish to learn more about integrating individualized, patient-centered palliative care into treatment of their patients with kidney disease.