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2020-08-25

GREGORY JOSEPH

Context-Aware Systems and Applications

World Scientific

While continuous ambulatory peritoneal dialysis (CAPD) has been the standard peritoneal procedure since the seventies, different schedules of automated peritoneal dialysis (APD) have emerged during the eighties. Today, APD is considered a valuable tool in the management of ESRD patients, together with CAPD and hemodialysis. However, despite its frequent use, APD has not yet been well assessed, and most pathophysiological and clinical studies on PD refer to CAPD. In this book, major experts in the field therefore discuss and evaluate the insights gained on APD up to now, presenting a comprehensive review of all experimental, technical and clinical aspects related to the various

treatments grouped under the definition of APD. The recent developments presented are divided into four sections: membrane permeability, transport mechanisms and kinetic modeling applied to APD; prescription and adequacy of different APD treatment schedules; dialysis machines and solutions for APD, and, lastly, different clinical aspects such as the possibility to maintain APD program and residual renal function. Physicians involved in ESRD care, renal fellows and scientists both in the academic world and in the hospital setting will undoubtedly profit from this timely publication.

Dialyseverfahren in Klinik und Praxis BoD
– Books on Demand

The best reference on end-stage renal disease! This authoritative resource has

been thoroughly revised for physicians caring for the rapidly growing population of renal patients, in an expanding number of dialysis centers. Written by world-class experts, it provides coverage of essential new techniques in peritoneal dialysis, home dialysis, pediatric dialysis, and more.

Cuidados intensivos en nefrología

Springer Science & Business Media
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.

Fuzzy Systems Elsevier Health Sciences
This book constitutes the thoroughly refereed proceedings of the 4th International Conference on Context-Aware Systems and Applications, ICCASA 2015, held in Vung Tau, Vietnam, in

November 2015. The 44 revised full papers presented were carefully selected and reviewed from over 100 submissions. The papers cover a wide spectrum of issues in the area of context-aware systems (CAS) and context-based recommendation systems. CAS is characterized by its self-facets such as self-organization, self-configuration, self-healing, self-optimization, self-protection and so on whose context awareness used to dynamically control computing and networking functions. The overall goal of CAS is to realize nature-inspired autonomic systems that can manage themselves without direct human interventions.

Pediatric Dialysis Karger Medical and Scientific Publishers

Das Buch stellt eine gut strukturierte Einführung in die medizinischen Grundlagen und die Gerätetechnik für eine moderne Intensivversorgung dar. In jedem Kapitel werden die zunächst die Grundlagen für das Verständnis der jeweiligen Physiologie und der relevanten Krankheiten gelegt. Anschließend werden die jeweiligen Therapiegeräte in ihrer Funktion beschrieben, mit denen die entsprechenden Erkrankungen behandelt werden können. Dabei steht die Modellierung der Wechselwirkung zwischen Maschinen und Körper im Vordergrund. An verschiedenen Stellen wird dies abgerundet durch einen historischen Abriss und einen Blick auf die zukünftige Entwicklung, die in vielen Fällen in Richtung Informationsfusion,

Vernetzung und Automatisierung deutet und uns zu "Cyber Medical Systems" führen wird.

Acute Kidney Injury Oxford University Press

Acute Kidney Injury Karger Medical and Scientific Publishers

Springer

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. Three Volume Set Lippincott Williams &

Wilkins
Pocket Companion to Brenner and Rector's The Kidney distills the essential clinical information from the latest edition of the seminal text on kidney diseases and their management. Michael R. Clarkson, Ciara Magee, and Barry M. Brenner detail the key pathophysiologic, diagnostic, and treatment issues in clinical nephrology, including interventional nephrology, endocrine aspects of kidney disease, and plasmapheresis. Diagnose, treat, and manage both common and uncommon disorders. Find clinical knowledge quickly and easily thanks to convenient tables throughout the text. Choose the best option of the many techniques available through discussions of indications for laboratory tests and

imaging studies. Enhance your clinical acumen with coverage of new topics such as risk factors and kidney disease, nephron endowment, interventional nephrology, plasmapheresis, xenotransplantation, stem cells in renal biology and medicine, and more. Stay current thanks to two new sections—Epidemiology and Risk Factors in Kidney Disease and Frontiers in Kidney Disease—that include topics such as stem cell and genomics.

Volume 2: Biofeedback Systems and Soft Computing Techniques of Dialysis

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.

Critical Care Nephrology E-Book Springer
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.

Digital Edition Jaypee Brothers Medical Publishers

The provision of optimal dialysis therapy to children requires a thorough understanding of the multi-disciplinary

3rd place with regard to the number of dialysis patients and is also widely regarded as a world leader in dialysis. This book contains selected articles – organized into 4 chapters - that discuss recent advances in dialysis therapy in Japan. Chapter 1 presents insights into causes, risk factors, disease associations, and possible implications for management of dialysis patients. Chapter 2 examines recent progress in hemodialysis treatment, and chapter 3 focuses on developments in peritoneal dialysis. The final chapter concentrates on recent advances in apheresis and current trends in practice, among other topics. This book is aimed at nephrologists, physicians, urologists, nurses, clinical engineers, pharmacists, and nutritionists. It is a significant

contribution to furthering the progress of dialysis therapy worldwide.

Continuous Renal Replacement Therapy
Elsevier Health Sciences

Natural gas is a vital component of the world's supply of energy and an important source of many bulk chemicals and speciality chemicals. It is one of the cleanest, safest, and most useful of all energy sources, and helps to meet the world's rising demand for cleaner energy into the future. However, exploring, producing and bringing gas to the user or converting gas into desired chemicals is a systematical engineering project, and every step requires thorough understanding of gas and the surrounding environment. Any advances in the process link could make a step change in gas industry. There have been

increasing efforts in gas industry in recent years. With state-of-the-art contributions by leading experts in the field, this book addressed the technology advances in natural gas industry.

Cardiovascular Response, Body Fluid Shifts, and Solute Kinetics McGraw Hill Professional

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.

Industrial Excellence Signpost Celfon. In Technology

For more than a generation haemodialysis has been the principal method of treating patients with both acute and chronic renal failure. Initially, developments and improvements in the system were highly technical and relevant to only a relatively small

number of specialists in nephrology. More recently, as advances in therapy have demonstrated the value of haemofiltration in the intensive therapy unit and haemoperfusion for certain types of poisoning, the basic principles of haemodialysis have been perceived as important in many areas of clinical practice. In this volume, the potential advantages of bicarbonate haemodialysis are objectively assessed, the technical and clinical aspects of both haemofiltration and haemoperfusion discussed and the continuing problems associated with such extra corporeal circuits analysed. All the chapters have been written by recognized experts in their field. The increasing availability of highly technical facilities for appropriately selected patients should

ensure that the information contained in the book is relevant not only to nephrologists but to all practising clinicians. ABOUT THE EDITOR Dr Graeme R. D. Catto is Professor in Medicine and Therapeutics at the University of Aberdeen and Honorary Consultant Physician/Nephrologist to the Grampian Health Board. His current interest in transplant immunology was stimulated as a Harkness Fellow at Harvard Medical School and the Peter Bent Brighton Hospital, Boston, USA. He is a member of many medical societies including the Association of Physicians of Great Britain and Ireland, the Renal Association and the Transplantation Society.

Nghiên cứu máy thận nhân tạo và thiết kế mạch báo dò máu máy thận nhân tạo

Fresenius 4008S Georg Thieme Verlag
This publication is a collection of the papers presented at the 'First International Course on Hemodialysis Technology', Vicenza, June 2002: It covers a wide range of topics, including aspects of vascular access and new forms of monitoring access function. Moreover, anticoagulation strategies and antimicrobial treatment are debated, with special emphasis on temporary catheters and prosthetic devices. Membrane composition and structure, their methods of sterilization and performance are discussed by experts and manufacturers, bringing together in a unique way science, theory and manufacturing procedures. The same synthesis is achieved with respect to hemodialyzers, adsorbent devices,

dialysis techniques and machines. A new issue is the possibility of computer-assisted data collection and management: This subject is discussed by experts in electronic data management, together with managers of large dialysis networks, concentrating on matters of quality assurance and continuous quality improvement programs. Special attention is given to dialysate and water purity since this is the starting point for newer dialytic techniques such as online hemodiafiltration. Moreover, the results obtained from the IDOPPS study are incorporated into the discussion of different practice patterns and anemia management. Finally, future trends are explored including automatic sensors and biofeedback monitors. Covering

various aspects of hemodialysis technology, this book will be a helpful tool for physicians and nurses, both for education and information.

Clinical Dialysis, Fourth Edition McGraw Hill Professional

Eine Enzyklopädie der deutschen Industriemarken.

The Complete Medical Tourist
Springer

This book offers all countries a guide to implementing verification systems for medical devices to ensure they satisfy their regulations. It describes the processes, procedures and need for integrating medical devices into the legal metrology framework, addresses their independent safety and performance verification, and highlights the associated savings for national

healthcare systems, all with the ultimate goal of increasing the efficacy and reliability of patient diagnoses and treatment. The book primarily focuses on diagnostic and therapeutic medical devices, and reflects the latest international directives and regulations. Above all, the book demonstrates that integrating medical devices into the legal metrology system and establishing a fully operational national laboratory for the inspection of medical devices could significantly improve the reliability of medical devices in diagnosis and patient care, while also reducing costs for the healthcare system in the respective country.

Modeling and Control of Dialysis Systems

BoD - Books on Demand

In the past decade, CRRT has moved from a niche therapy within specific specialty centers to the standard of care for management of critically ill patients with acute renal failure. Continuous Renal Replacement Therapy provides concise, evidence-based, to-the-point 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, Continuous Renal Replacement Therapy provides a complete view of CRRT theory and practice. Generous tables summarize and highlight key points, and key studies and trials are listed in each chapter.