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Stress Challenges and Immunity in Space - Alexander Choukèr 2019-11-27
This book explains how stress – either psychological or physical – can activate and/or paralyse human innate or adaptive immunity. Adequate immunity is crucial for maintaining health, both on Earth and in space. During space flight, human physiology is specifically challenged by complex environmental stressors, which are most pronounced during lunar or interplanetary missions. Adopting an interdisciplinary approach, the book identifies the impact of these stressors – the space exposome – on immunity as a result of (dys-)functions of specific cells, organs and organ networks. These conditions (e.g. gravitation changes, radiation, isolation/confinement) affect immunity, but at the same time provide insights that may help to prevent, diagnose and address immune-related health alterations. Written by experts from academia, space agencies and industry, the book is a valuable resource for professionals, researchers and students in the field of medicine, biology and technology. The chapters “The Impact of Everyday Stressors on the Immune System and Health”, “Stress and Radiation Responsiveness” and “Assessment of Radiosensitivity and Biomonitoring of Exposure to Space adiation” are

available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Nutrition of the exercising horse - M. Saastamoinen 2008-07-05
The exercising horse competes at various levels in different disciplines and is also increasingly used for leisure riding and driving as well as hobby farming and agritourism. This varied use of the horse of today creates challenges for those who are responsible for the feeding of horses, as well as to feed producers and manufacturers. This book provides an outstanding synthesis of knowledge in physiology and metabolism, nutritional requirements and feeding strategies. Use of performance aids and the question of feed contaminants and doping are explained and discussed according to EU legislation on the marketing and use of animal feeds and doping rules in horse sports. The improved knowledge and understanding of the background of the horse's performance and nutritional physiology helps to meet the nutritional requirements of working (or exercising) horses such that their genetic potential can be used properly. This book discusses the following seven subjects: -nutrients and tissue metabolism; -adaptations; -energy requirements; -protein

requirements; -mineral, electrolytes and vitamins requirements and function; -feeding strategies; - performance aids and feed contaminants and doping. This book is the fourth step of further discussion on the evaluation and prediction of the requirements of different types of horses covered in the scope of the working group Nutrition of the Horse commission at European Association of Animal Production (EAAP). All those concerned by racing, riding and feeding in equine industry will enjoy this valuable resource. It is a reference book for scientists, veterinarians, advisers and practitioners in the equine industry, as well as for teachers and students in equine science.

Principles of Clinical Pharmacology - Arthur J. Atkinson, Jr. 2011-04-28
This revised second edition covers the pharmacologic principles underlying the individualization of patient therapy and contemporary drug development, focusing on the fundamentals that underlie the clinical use and contemporary development of pharmaceuticals. Authors drawn from academia, the pharmaceutical industry and government agencies cover the spectrum of material, including pharmacokinetic practice questions, covered by the basic science section of the certifying examination offered by the American Board of Clinical Pharmacology. This unique reference is recommended by the Board as a study text and includes modules on drug discovery and development to assist students as well as practicing pharmacologists. Unique breadth of coverage ranging from drug discovery and development to individualization and quality assessment of drug therapy Unusual cohesive of presentation that stems from author participation in an ongoing popular NIH course Instructive linkage of

pharmacokinetic theory and applications with provision of sample problems for self-study Wide-ranging perspective of authors drawn from the ranks of Federal agencies, academia and the pharmaceutical industry Expanded coverage of pharmacogenetics Expanded coverage of drug transporters and their role in interactions Inclusion of new material on enzyme induction mechanisms in chapters on drug metabolism and drug interactions A new chapter on drug discovery that focuses on oncologic agents Inclusion of therapeutic antibodies in chapter on biotechnology products

Replacement of Renal Function by Dialysis - Walter H. Hörl 2013-06-05
The leading Textbook on the subject. A completely rewritten and up-to-date fifth edition, based upon the highly respected fourth edition, edited by C. Jacobs, C.M. Kjellstrand, K.M. Koch and J.F. Winchester. This new edition is truly global in scope and features the contributions of the top experts from around the world.

Modelling and Control of Dialysis Systems - Ahmad Taher Azar 2012-08-04
The book, to the best of the editor's knowledge, is the first text of its kind that presents both the traditional and the modern aspects of 'dialysis modeling and control' in a clear, insightful and highly comprehensive writing style. It provides an in-depth analysis of the mathematical models and algorithms, and demonstrates their applications in real world problems of significant complexity. The material of this book can be useful to advanced undergraduate and graduate biomedical engineering students. This text provides an important focus on helping students understand how new concepts are related to and rely upon concepts previously presented. Also, researchers and practitioners in the field of dialysis, control systems,

soft computing may benefit from it. The material is organized into 32 chapters. This book explains concepts in a clear, matter-of-fact style. In order to make the reader aware of the applied side of the subject, the book includes: Chapter openers with a chapter outline, chapter objectives, key terms list, and abstract. Solved numerical examples to illustrate the application of a particular concept, and also to encourage good problem-solving skills. More than 1000 questions to give the readers a better insight to the subject. Case studies to understand the significance of the joint usage of the dialysis modeling and control techniques in interesting problems of the real world. Summation and deepening of authors' works in recent years in the fields related. So the readers can get latest information, including latest research surveys and references related to the subjects through this book. It is hoped that through this book the reader will: Understand the fundamentals of dialysis systems and recognize when it is advantageous to use them. Gain an understanding of the wide range of dialysis modeling techniques Be able to use soft computing techniques in dialysis applications. Gain familiarity with online systems of dialysis and their applications. Recognize the relationship between conceptual understanding and problem-solving approaches. The editors would like to take this opportunity to thank all the authors for their contributions to this textbook. Without the hard work of our contributors, this book would have not been possible. The encouragement and patience of series Editor, Thomas Ditzinger is very much appreciated. Without his continuous help and assistance during the entire course of this project, the production of the book would have taken a great

deal longer.

ADQI Consensus on AKI Biomarkers and Cardiorenal Syndromes - J.A. Kellum 2013-05-14

Associated with both acute kidney injury (AKI) and cardio-renal syndromes (CRS), new biomarkers represent both a popular area of investigation and a new opportunity for advancement of therapy. This book contains the resolutions of the most recent ADQI conferences on biomarkers in AKI (Dublin) and on cardio-renal syndromes (Venice). The first part answers specific questions about new biomarkers and their use and utility in AKI: What are the most suitable candidate molecules and physiologic measures, how solid and evidence based is the discovery phase? How can we incorporate the new biomarkers in the AKI conceptual model describing the evolution from susceptibility to insult, decreased GFR and organ death? Even if we have a positive biomarker pattern and we can identify patients at risk or patients with early or even subclinical AKI, how is this information affecting our clinical behavior and practice? The second part is dedicated to the appraisal of the current knowledge about the pathophysiological mechanisms involved in different forms of CRS: it contains contributions on the state-of-the-art knowledge and practice of CRS, particularly focusing on the pathophysiology of the five subtypes. Acute and chronic mechanisms of damage are explored in depth, with particular attention to the primacy of organ involvement and the subsequent pathways of organ crosstalk. Presenting the most recent research in the field of biomarkers, AKI and CRS, this publication is an important educational tool for advanced investigators and clinical experts, but also for students and fellows.

Determinants of Innovation - Alfred Kleinknecht 1996-11-08

Micro-econometric analyses cover a wide range of new innovation 'input' and 'output' indicators. Among the robust findings about determinants of innovation is evidence on the importance of technological opportunity, of appropriability of innovation benefits, and of Schumpeterian demand-pull effects. As opposed to the evidence from standard R&D data, small firms appear more innovative and the impact of market power on innovation is, in the best case, modest.

Continuous Renal Replacement Therapy - John A. Kellum 2016

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.

Assessing Medical Technologies -

Institute of Medicine 1985-02-01
New drugs, new devices, improved surgical techniques, and innovative diagnostic procedures and equipment

emerge rapidly. But development of these technologies has outpaced evaluation of their safety, efficacy, cost-effectiveness, and ethical and social consequences. This volume, which is "strongly recommended" by The New England Journal of Medicine "to all those interested in the future of the practice of medicine," examines how new discoveries can be translated into better care, and how the current system's inefficiencies prevent effective health care delivery. In addition, the book offers detailed profiles of 20 organizations currently involved in medical technology assessment, and proposes ways to organize U.S. efforts and create a coordinated national system for evaluating new medical treatments and technology.

Remote Patient Management in Peritoneal Dialysis - C. Ronco 2019-04-08

Telemedicine and remote patient monitoring are innovative tools to provide remote transmission, interpretation, and storage of data for review by the care team. These tools allow for accurate home monitoring of patients enabling the team to improve care through prevention and early identification of problems. This book is structured into four main parts. The first describes the evolution of peritoneal dialysis and related technology. The second part summarizes current unmet clinical needs reported by patients and care teams, the need for innovation in the field, and the technical and clinical issues involved with the modern management of peritoneal dialysis. The third section presents the operational characteristics of the new information communication technology system and, in detail, the features of the Sharesource platform. Finally, a series of field experiences by expert users are reported to describe

the benefits and the potential applications of remote patient monitoring in the future. Telemedicine and remote patient monitoring have proven to be useful in the care of patients on peritoneal dialysis. The scope of this publication, therefore, is to present the experiences of clinical key opinion leaders who have been using the application.

Pediatric Continuous Renal Replacement Therapy - Farahnak Assadi
2015-12-16

This book provides a current understanding of Continuous Renal Replacement Therapies (CRRT) techniques with a focus on drug dosing in critically ill children receiving CRRT. Strategies include the role of therapeutic drug monitoring, effect of CRRT on drug pharmacokinetics, variations in the drugs properties, newer kidney injury biomarkers and simple and easy methods for estimating drug clearance. The conclusion of this book features case reports focused on the patients' symptoms and laboratory data as they present in clinical practice and the type of CRRT modality needed to provide quality, safety, and cost-effectiveness of patient care. Pediatric Continuous Renal Replacement Therapy will expand the clinical knowledge and experience of practicing nephrologists and other professionals involved in the care of children suffering from Acute Kidney Injury (AKI) to improve and sustain their quality of life.

Therapeutic Plasma Exchange - H.-J. Gurland
2012-12-06

This volume contains papers and discussions of the Vth Dialyse-Arzte Workshop, which was held in Bernried at Lake Starnberg near Munich the 5th and 6th of March 1980. Generously sponsored by Travenol, Munich, the Dialyse-Arzte meetings now have a tradition spanning 16 years.

According to the constitution of these meetings, the topics of earlier years had to cover dialysis and related fields. Thus the sponsor requested that this year also one lecture - incorporated here as part - should deal with the state of art of dialysis, thereby hopefully linking this Workshop to the previous meetings. Dialysis techniques of the 1960s, pioneered by many of attending speakers and panelists (see List of Contributors), have never come to a standstill. Indeed, vascular access and extra corporeal circulation have become routine for the nephrologist and have made possible the introduction of new approaches, such as hemofiltration and hemoperfusion. Also today new membrane technologies provide us with a potentially even more effective therapeutic tool, namely plasma separation.

The Role of Biofilms in Device-Related Infections - Mark Shirtliff
2008-12-19

Approximately 60% of all hospital-associated infections, over one million cases per year, are due to biofilms that have formed on indwelling medical devices. Device-related biofilm infections increase hospital stays and add over one billion dollars/year to U.S. hospitalization costs. Since the use and the types of indwelling medical devices commonly used in modern healthcare are continuously expanding, especially with an aging population, the incidence of biofilm infections will also continue to rise. The central problem with microbial biofilm infections of foreign bodies is their propensity to resist clearance by the host immune system and all antimicrobial agents tested to date. In fact, compared to their free floating, planktonic counterparts, microbes within a biofilm are 50 – 500 times more resistant to antimicrobial agents.

Therefore, achieving therapeutic and non-lethal dosing regimens within the human host is impossible. The end result is a conversion from an acute infection to one that is persistent, chronic, and recurrent, most often requiring device removal in order to eliminate the infection. This text will describe the major types of device-related infections, and will explain the host, pathogen, and the unique properties of their interactions in order to gain a better understanding of these recalcitrant infections.

The Army Lawyer - 2003

Automated Peritoneal Dialysis -

Claudio Ronco 1999-01-01

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.

Pediatric Dialysis - Bradley A.

Warady 2012-12-06

The provision of optimal dialysis therapy to children requires a thorough understanding of the multi-disciplinary manner in which the pediatric patient is affected by renal insufficiency. Knowledge of the technical aspects of peritoneal dialysis, hemodialysis and continuous renal replacement therapy must be complemented by attention to issues such as anemia, renal osteodystrophy, hypertension, growth, cognitive development, nutrition, nursing care and the psychosocial adaptation of the child and family to chronic disease. The inaugural edition of *Pediatric Dialysis* provides a comprehensive review of these and other related topics with a singular emphasis on the unique aspects of their application to children. With authoritative, clinically relevant, well-referenced chapters written by a host of recognized international experts who emphasize key aspects of contemporary management, *Pediatric Dialysis* has been designed to serve as a primary resource to all clinicians involved in the care of the pediatric dialysis patient.

Handbook of Disability Studies - Gary L. Albrecht 2001-05-24

This path-breaking *Handbook of Disability Studies* signals the emergence of a vital new area of scholarship, social policy and activism. Drawing on the insights of disability scholars around the world and the creative advice of an international editorial board, the book engages the reader in the critical issues and debates framing disability studies and places them in

an historical and cultural context. Five years in the making, this one volume summarizes the ongoing discourse ranging across continents and traditional academic disciplines. The Handbook answers the need expressed by the disability community for a thought provoking, interdisciplinary, international examination of the vibrant field of disability

Dialysis: History, Development And Promise - Todd S Ing 2012-08-29

This book describes the past, present and future of dialysis and dialysis-related renal replacement therapies so that the reader can acquire a firm grasp of the medical management of acute and chronic renal failure. By becoming thoroughly conversant with the past and present of dialysis, a health care professional will be in a much better position to provide the best standard of care to patients suffering from renal failure. As the book highlights the unsolved operational obstacles in the field of renal replacement therapies, future innovators may be inspired to develop novel solutions to tackle these problems. This remarkable work is a must-read not only for healthcare providers in the dialysis industry, but also for patients, dialysis equipment manufacturers as well as pharmaceutical companies.

Surgery for Congenital Heart Defects

- Jaroslav F. Stark 2006-11-02

Over 10 years after the publication of the second edition, Wiley now publishes the third edition of the popular volume *Surgery for Congenital Heart Defects*. Completely updated and expanded, this new edition describes step-by-step the surgical procedures for congenital heart defects and includes detailed illustrations for each operation. New in this edition are chapters on exercise testing, MRI, EP studies and catheter ablation of arrhythmias, extracorporeal

circulatory support and paediatric lung transplantation. A greatly expanded ultrasound chapter contains numerous colour Doppler's of many conditions. *Surgery for Congenital Heart Defects, Third Edition*: Provides complete coverage of the current issues in paediatric cardiac surgery Offers tips and surgical techniques to master difficult surgical situations Uniquely displays detailed illustrations for each operation, allowing surgeons to follow all operating procedures step-by-step Serves both as reference and training manual

Oxford Handbook of Dialysis - Jeremy Levy 2009-03-26

The *Oxford Handbook of Dialysis* provides a patient-centred and comprehensive guide to all aspects of dialysis, covering everything from patient preparation and details of both haemo- and peritoneal dialysis, to continuous haemofiltration techniques and complications of end stage kidney disease. In this new edition, all sections have been completely updated, with new material on a multitude of topics including haemofiltration, monitoring techniques, infection prevention, new PD fluids, trials in haemodialysis and peritoneal dialysis, integrated care, role of predialysis nurses, supportive care, care of dying patients, pain control and newer drugs such as darbepoietin, new vitamin D analogues, new anticoagulants and phosphate binders. With new chapters on transplantation and dialysis in Acute Kidney Injury, and references to the most up-to-date clinical guidelines, this handbook continues to be the essential, compact resource for anyone managing patients with end stage renal failure.

International Cases in Tourism Management - Susan Horner 2004
Over 30 cases from the tourism

industry examined in depth - an essential resource for tutors and students.

Who's who in America, 2006 - 2005

Resources in Education - 1995-06

Organization Development and Change - Thomas G. Cummings 2006

Who's Who in Plastics Polymers -

James P. Harrington 2000-05-09

This is the first edition of a unique new plastics industry resource: Who's Who in Plastics & Polymers. It is the only biographical directory of its kind and includes contact, affiliation and background information on more than 3300 individuals who are active leaders in this industry and related organizations. The biographical directory is i

Securing Reasonable Caseloads -

Norman Lefstein 2011

For the criminal justice system to work, adequate resources must be available for police, prosecutors and public defense. This timely, incisive and important book by Professor Norman Lefstein looks carefully at one leg of the justice system's "three-legged stool" public defense and the chronic overload of cases faced by public defenders and other lawyers who represent the indigent.

Fortunately, the publication does far more than bemoan the current lack of adequate funding, staffing and other difficulties faced by public defense systems in the U.S. and offers concrete suggestions for dealing with these serious issues.

Nolph and Gokal's Textbook of Peritoneal Dialysis - Ramesh Khanna 2009-05-28

Nolph and Gokal's Text Book of Peritoneal Dialysis, Third Edition, covers advances made in the field for the past 30 years. During the past two decades, the time during which

this therapy has been increasingly utilized, this text has continued to be recognized as the major source of the discipline's base knowledge. The evolution of this text to its newest edition parallels the growth of peritoneal dialysis from Continuous Ambulatory Peritoneal Dialysis in the eighties to the current therapy that encompasses manual and automated therapies with full emphasis on adequacy of dialysis dose. Peritoneal dialysis represents an intracorporeal technique for blood purification. This unique dialysis system represents one of many human attempts to manipulate nature for sustenance of life. The past few years of advances have focused on further improvement of the technique. Areas that have fueled the interest of researchers include: (1) Physiology of high transporters (and the role of genetics and inflammation); (2) Continued debate over the most appropriate adequacy indices (small solute clearances, large solute clearances, clinical assessment etc.); (3) Understanding, preventing and treating the MIA syndrome in PD patients (including the roles of leptin, and adiponectin); (4) Pathogenesis and newer management strategies of vascular calcification; (5) Continued improvements in infectious complications including peritonitis; (6) Further improvements in catheter technology; (7) Automated techniques; (8) Explaining and correcting PD underutilization; (9) Rationale and applications of newer dialysis solutions; (10) New understanding and approaches to management of osteodystrophy; (11) Refinements in anemia management including new insights in iron metabolism in PD patients; (12) Further definition of indications for PD; (13) The ideal time to initiate dialysis. Newer insight into host defense mechanisms have also made the

past decade of advances in the field more meaningful for clinicians. This text also covers the knowledge gained from animal models of peritoneal dialysis. Nolph and Gokal's Textbook of Peritoneal Dialysis, Third Edition is a compilation of the latest knowledge in the field. It cites and describes in great detail, the new discoveries and the evolution of understanding the subject of these discoveries.

Lectin Methods and Protocols -

Jonathan M. Rhodes 2010-10-28
Lectins have in the past been regarded by many scientists as curious proteins of uncertain structure and specificity that bind to carbohydrates of dubious significance themselves. All this is rapidly changing. The functional importance of glycosylation in cell-cell and cell-pathogen interactions, as well as intracellular events, has been recognized by the explosion of the science of glycobiology. This has been paralleled by the realization that lectins, once they have been well characterized, can be extremely useful tools for examining structural changes in glycosylation and their functional consequences for human pathophysiology. Different lectins vary considerably in their degree of specificity. Some, such as wheatgerm agglutinin, have fairly broad specificity (for glucosamine or sialic acid), whereas others, such as Maackia amurensis, are specific not only for a single carbohydrate, but also for its linkage (2-3 linked sialic acid). Lectins with relatively broad specificity may be very useful as an adjunct to isolation or quantification of soluble glycoproteins, whereas lectins of known, and precise, specificity will be more useful for characterization of carbohydrate structure. We have included an appendix in Lectin Methods and Protocols that provides

the known specificities of all lectins cited in the text.

Plasma Processes and Polymers -

Riccardo d'Agostino 2006-03-06

This volume compiles essential contributions to the most innovative fields of Plasma Processes and Polymers. High-quality contributions cover the fields of plasma deposition, plasma treatment of polymers and other organic compounds, plasma processes under partial vacuum and at atmospheric pressure, biomedical, textile, automotive, and optical applications as well as surface treatment of bulk materials, clusters, particles and powders. This unique collection of refereed papers is based on the best contributions presented at the 16th International Symposium on Plasma Chemistry in Taormina, Italy (ISPC-16, June 2003). A high class reference of relevance to a large audience in plasma community as well as in the area of its industrial applications.

Journal of Medical Engineering & Technology - 1992

Handbook of Dialysis - John T.

Daugirdas 2012-02-20

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.

Post-Intensive Care Syndrome - Jean-Charles Preiser 2019-08-31

This book, part of the European Society of Intensive Care Medicine textbook series, provides detailed up-to-date information on the physical, cognitive, and psychological impairments that are frequently present following a stay in an intensive care unit and examines in depth the available preventive and therapeutic strategies, including adapted rehabilitation programs. Beyond acquainting readers with the multiple facets of post-intensive care syndrome (PICS), the book aims to promote the effective follow-up of patients, thereby enhancing their ability to work and their functional autonomy, and to identify risk factors for the development of PICS as a stimulus to beneficial organizational changes in intensive care departments. The background to the book is the realization by healthcare providers that the quality of life of patients who have required a stay in an intensive care unit can be severely impaired or even become unacceptable. All too often, the diverse sequelae are overlooked by specialists of other disciplines. Moreover, families and caregivers are also at high risk of post-traumatic stress disorder and depression. The European Society of Intensive Care Medicine has developed the Lessons from the ICU series with the vision of providing focused and state-of-the-art overviews of central topics in Intensive Care and optimal resources for clinicians working in Intensive Care. This book, written by renowned experts in the field, will facilitate the transmission of key knowledge with significant clinical

and financial benefits.

Medical Technology Assessment Directory - Institute of Medicine 1988-02-01

For the first time, a single reference identifies medical technology assessment programs. A valuable guide to the field, this directory contains more than 60 profiles of programs that conduct and report on medical technology assessments. Each profile includes a listing of report citations for that program, and all the reports are indexed under major subject headings. Also included is a cross-listing of technology assessment report citations arranged by type of technology headings, brief descriptions of approximately 70 information sources of potential interest to technology assessors, and addresses and descriptions of 70 organizations with memberships, activities, publications, and other functions relevant to the medical technology assessment community.

Continuous Ambulatory Peritoneal Dialysis - G.R. Catto 2012-12-06

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 extracorporeal 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.

On-Line Hemodiafiltration: The Journey and the Vision - G. Krick
2011-12-20

On-line HDF represents a major technical development in the delivery of hemodialysis therapy: It combines the properties of increased diffusion available in current high-flux membranes with convective removal of between 6 and 30 liters per treatment and requires the use of ultrapure water and online filtration of replacement fluid. On-line HDF has been successfully introduced in Europe and Asia and is routinely prescribed for dialysis patients in these regions. The book at hand summarizes the history and achievements of on-line HDF in four parts: A report of the technological development in both machine and fiber/dialyzer is followed by a description of the challenges encountered in the evolution of on-

line HDF, collecting the accounts of clinical key opinion leaders who had been involved in its early application. The third part presents a comprehensive review of the clinical results achieved with on-line HDF from its inception to the present times, in which it represents the clinical golden standard. The fourth and final part is dedicated to on-line HDF as a 'vision' for the future.

Critical Care Nephrology and Renal Replacement Therapy in Children - Akash Deep 2018-08-17

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 Pediatric Transfusion Medicine - Christopher D. Hillyer
2004-02-23

Structured to be a companion to the recently published Handbook of Transfusion Medicine, the Handbook of Pediatric Transfusion Medicine is dedicated to pediatric hematology-oncology and transfusion medicine, a field which remains ambiguous and which has generated few comprehensive texts. This book stands alone as one of the few texts that addresses transfusion issues specific to pediatric medicine. Written in an eminently readable style, this authoritative handbook is a requirement for any pediatric physician or caregiver. Neonatal and fetal immune response and in utero development issues Blood compatibility and pre-transfusion testing issues specific to pediatric and neonatal transfusion Therapeutic apheresis including red blood cell exchange and prophylactic chronic erythrocytapheresis for sickle cell patients Also includes a section that concentrates on the consent, quality and legal issues of blood transfusion and donation

Hemodiafiltration - Claudio Ronco
2007-01-01

A concise handbook on clinical and technical possibilities The application of hemodiafiltration has been restricted until recently, when a broader clinical application has been made possible due to evidence

from large studies and clinical investigations. This book provides an updated review of the evolution, advances and recent results achieved by hemodiafiltration in the clinical arena. The first part is devoted to historical notes and an outline of the evolution of different forms of hemodiafiltration, made possible by technological developments in the fields of membranes, machines and fluids. The next section describes the theoretical rationale for hemodiafiltration, providing a detailed analysis of the involved mass separation processes, the hydraulic properties of the dialyzers, fluid mechanics and crossfiltration in hollow fiber hemodialyzers. An outline of different hemodiafiltration techniques, also reporting peculiar transport mechanisms and related technology, is given next, and a section on the clinical effects of hemodiafiltration concludes this book. Including different technologies, the publication offers a complete overview of the technical and clinical possibilities provided by hemodiafiltration in its widest concept, ranging from the molecular basis to the most practical application. It will be a valuable tool for the implementation of hemodiafiltration in daily practice aimed at beginners and experts, scientists and physicians, students and senior faculty members alike.

Clinical Nephrology - 1986

Clinical Practice Guidelines For Chronic Kidney Disease - 2002