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The present book contains the Proceedings of a two day Symposium on Uremic Toxins organized at the University of Ghent in Belgium. A series of guest lectures, free communications and posters have been presented. An international audience of 163 scientists from 16 nationalities listened to and discussed extensively a spectrum of topics brought forward by colleagues and researchers who worked for many years in the field of Uremic Toxins. There is a striking contrast between all the new dialysis strategies available in the work to "clean" the uremic patients and the almost non-progression of our knowledge on uremic toxins in the past decade. In this sense the symposium was felt by all participants as a new start for the research in the biochemical field of the definition of uremia. If the present volume would stimulate new work in this field in order to define uremia, or identify the uremic toxins, the purpose of the organizers would be maximally fulfilled.

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; Pratice; 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.

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.

In addition to standardized casual blood pressure readings, ambulatory blood pressure monitoring (ABPM) - using automatic noninvasive (= indirect) devices for home readings and fully automated monitors for 24-h profiles - have become a widely used necessary tool in clinical research. This book summarizes the state of the art in the whole field of indirect blood pressure monitoring. It is based on two international meetings and on invited papers. We have divided the subject matter into two main areas: 1) Automatic blood pressure devices for discontinuous registration, and 2) Portable, fully automated programmable monitors for continuous monitoring. The availability of all new technologies is described in detail and current technical and physiological problems have been covered in depth. Both topics have been subdivided into a) Methods and Techniques, and b) Clinical Applications. Both parts are updated and have critically evaluated available automatic sphygmomanometers and portable computers equipped with different techni ques (e. g., auscultation, oscillometry, plethysmography). Reliability in the intensive Care unit as well as in outpatients management, common clinical problems, clinical relevance compared to casual blood pressure are described in the first part. In the second part, ten years of experience on fully automated noninvasive methodology - compared to intraarterial techniques - have been elaborated by international experts; the possibilities and limitations are clearly demonstrated. Analyses in different clinical fields in the diagnosis of primary and secondary hypertension are given. Different statistical analyses of blood pressure variability and circadian rhythms are discussed. Proceedings of the NATO Advanced Research Workshop, Florence, Italy, May 4-8, 1987

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 pathophysiologic 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.

In the last decade, the incidence of acute poisoning in the developed world has risen considerably, so that hospital admissions from this cause now repre-- sent a significant part of the work load of most medical units. The purpose of this book is to provide an up-to-date account of the diagnosis and treatment of all the clinically important poisons. Throughout the text the aim has been to emphasize the mechanisms of toxicity - wherever they are known - so that a rational approach to therapy may be devised. In addition, substantial chapters have been devoted to the psychiatric assess ment of self-poisoned patients and to the role of the laboratory. Two styles of presentation have been adopted.
Certain topics are discussed in depth either because of their clinical importance or because recent data have become available concerning pathophysiology or treatment. In contrast, when subjects have been well described previously in general medical texts, for example, carbon monoxide poisoning, the discussion is far more brief and to the point. A similar style has been adopted with recently introduced drugs, where little is known about the effects in overdose. The value of certain chapters, especially those on poisonous plants and snake bites, has been enhanced by the inclusion of a large number of colour photographs.

This comprehensive volume provides an update on the current state of pharmacometrics in drug development. It consists of nineteen chapters all written by leading scientists from the pharmaceutical industry, regulatory agencies and academia. After an introduction of the basic pharmacokinetic and pharmacodynamic concepts of pharmacometrics in drug development, the book presents numerous examples of specific applications that utilize pharmacometrics with modeling and simulations over a variety of therapeutic areas, including pediatrics, diabetes, obesity, infections, psychiatrics, Alzheimer’s disease, and dermatology, among others. The examples illustrate how results from all phases of drug development can be integrated in a more timely and cost-effective process. Applying pharmacometric decision tools during drug development can allow objective, data-based decision making. At the same time, the process can identify redundant or unnecessary experiments as well as some costly clinical trials that can be avoided. In addition to cost saving by expedited development of successful drug candidates, pharmacometrics has an important economic impact in drug product selection. Unsuccessful drug candidates can be identified early and discontinued without expending efforts required for additional studies and allocating limited resources. Hence, pharmacometric modeling and simulation has become a powerful tool to bring new and better medications to the patient at a faster pace and with greater probability of success.

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.

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.

Immerse students in the world of intellectual property law and provide essential perspectives to practice in this area. The Fifth Edition of Loren & Miller's Intellectual Property Law continues to provide engaging and challenging coverage of all the major types of intellectual property law: trade secret, patent, copyright, and trademark law. Covering cases and developments through Spring 2017, the book includes all the latest Supreme Court cases that are vital to a survey course, including Star Athletica v. Varsity Brands (as a principal case) and contextualized discussion of Matal v. Tam and Impression Products v. Lexmark International. Each chapter has been fully revised, with changes some small, some more extensive that optimize clear presentation of tightly edited cases and concise notes and questions. The book kicks off with an introduction that explores the basic policies animating i.p. law and concludes with two overarching chapters one on i.p. limits (preemption and first sale), and one on remedies (to redress past harm and prevent future harm). This book will both guide student analysis and challenge students to make vital connections within and across doctrines and policies.

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.

This book is an evidence-based review of the practical challenges of dealing with patients receiving dialysis. The first section covers technical and procedural considerations such as choosing the hemodialysis membrane and choosing the best dialysis option. The second section covers clinical considerations such as infection and the treatment of specific renal disease complications. The book includes numerous illustrations and tables and drug charts for dialysis patients. This edition's current outcomes chapter has been expanded to include patient depression and improving quality of care. New chapters cover dialysis in the ICU, valvular heart disease, and pre-emptive renal transplantation.
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.

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.

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.

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.

This Open access book offers updated and revised information on vessel health and preservation (VHP), a model concept first published in poster form in 2008 and in JVA in 2012, which has received a great deal of attention, especially in the US, UK and Australia. The book presents a model and a new way of thinking applied to vascular access and administration of intravenous treatment, and shows how establishing and maintaining a route of access to the bloodstream is essential for patients in acute care today. Until now, little thought has been given to an intentional process to guide selection, insertion and management of vascular access devices (VADs) and by default actions are based on crisis management when a quickly selected VAD fails. The book details how VHP establishes a framework or pathway model for each step of the patient experience, intentionally guiding, improving and eliminating risk when possible. The evidence points to the fact that reducing fragmentation, establishing a pathway, and teaching the process to all stakeholders reduces complications with intravenous therapy, improves efficiency and diminishes cost. As such this book appeals to bedside nurses, physicians and other health professionals.

This second edition of the Manual of Clinical Dialysis is a concise and well-illustrated guide to all aspects of dialysis. All chapters have been revised and present a complete overview of the techniques, processes and equipment involved in clinical dialysis as well as an overview of the complications of dialysis. The manual also provides an overview of common clinical problems related to renal failure such as hypertension, anemia and renal osteodystrophy.

HemodiafiltrationKarger Medical and Scientific Publishers

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.

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.

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.

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.

This book gives a complete description of online hemodiafiltration, in five sections. It is unique in the systematic and complete way in which hemodiafiltration is described. Each chapter is completed by a point-to-point summary of essential information, in a separate text box. Part of the book is dedicated to the theoretical background of convective clearance. In this part, safety issues and quality control is reviewed (especially on the quality of water for dialysis and substitution fluid), as well as equipment (both dialyzers and machines) with which this treatment can be performed. As recently the results of several randomized controlled trials were available, the effect of hemodiafiltration on hard clinical end points (mortality and morbidity) is discussed in detail. This has not been done before, as the most recent book/journal on hemodiafiltration was published in 2011, before the results of the 3 randomized controlled trials were published. Furthermore, the methodological quality of the trials is discussed by an expert, in order to help the readers in their judgment of the trials Part of the book concentrates on the effect of the treatment on several biomarkers and uremic toxins. Several clinically relevant issues is discussed separately, such as the prescription of anticoagulation during the treatment, drug prescription and clearance for patients treated with hemodiafiltration, and hemodynamic stability. Finally, a practical guide on how to perform the treatment is provided. In this unique section, seemingly simple but important details of hemodiafiltration-treatment is discussed, such as the importance of needle size for blood flow rates, the difference between filtration fraction and substitution ratio, the different targets that can be set and how to reach them. As most literature is mainly focused on theoretical issues, this unique feature really will help the field to perform hemodiafiltration, and answer practical questions.

In examining the preface of our first book, it is increased needed. The Deming philosophy empha apparent that the editorial comments made in sizes that quality is never fully achieved; process 1994 are even more pertinent in today’s cost-improvement is never ending. constrained healthcare environment than when But, what is quality? Without defining, David first written. We repeat them in part. Garvin makes the point that “in its original form, This is a time in history when the concept of quality activities were reactive and inspect-quality is reaching new highs in terms of public oriented; today, quality related activities have awareness. Articles describing quality, CQI, qual broadened and are seen as essential for strategic ity tools, critical success factors, failures, and success” [1]. How can the broad context of quality lessons learned appear in local newspapers, trade be applied to the diverse aspects of ESRD? journals, scientific periodicals, and professional Furthermore, although far from a new concept, publications on a daily basis, yet
implementation Continuous Quality Improvement (CQI) has taken of a quality system in many hospital units is its place as a dominant theme in many industries. approached with caution and the basic tenants of CQI is more broadly applicable, both in concept quality systems and CQI continue to be misunder and execution, to service as well as manufactur- stood. based operations.

From Erin Brockovich to Enron, whistleblowers who "challenge abuses of power that betray the public trust" have proven to be an unfortunate necessity in modern business culture. Their efforts to report crimes, fraud, and dangers to public health and safety have saved millions of lives and billions of dollars of shareholder value – and had we heeded the warnings of whistleblowers, perhaps disasters such as the Bernie Madoff scandal and the Lehman Brothers meltdown could have been averted. Recent federal legislation in finance and health reform have cemented legal protections and mechanisms for whistleblowing. This book provides a thorough guide and history to the whistleblower's legal rights. The ultimate survival guide, it provides advice on getting help and finding allies, warns that retaliation is often the reward for "committing the truth" and shows how to weather the storm. With extensive legal texts, sample letters, resources, and information on upcoming whistleblower reforms, this is the ultimate source on the subject.

This book documents and disseminates experiences from a wide range of universities, across the five continents, which showcase how the principles of sustainable development may be incorporated as part of university programmes, and present transformatory projects and programmes, showing how sustainability can be implemented across disciplines. Sustainability in a higher education context is a fast growing field. Thousands of universities across the world have signed declarations or have committed themselves to integrate the principles of sustainable development in their activities: teaching, research and extension, and many more will follow.

For the criminal justice system to work, adequate resources must be available for police, prosecutors and public defense. This timely, incise 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.

Practical drug development approaches presented by leading experts Designed to support the development of new, effective therapeutics, Topical and Transdermal Drug Delivery: Principles and Practice explains the principles underlying the field and then demonstrates how these principles are put into practice in the design and development of new drug products. Drawing together and reviewing the latest research findings, the book focuses on practical, tested, and proven approaches that are backed by industry case studies and the authors' firsthand experience. Moreover, the book emphasizes the mechanistic information that is essential for successful drug product development. Topical and Transdermal Drug Delivery: Principles and Practice is divided into two parts: Part One, Current Science, Skin Permeation, and Enhancement Approaches, offers readers a fundamental understanding of the underlying science in the field. It describes the principles and techniques needed to successfully perform experimental approaches, covering such issues as skin permeation, enhancement, and assessment. Part Two, Topical and Transdermal Product Development, guides readers through the complete product development process from concept to approval, offering practical tips and cautions from experts in the field. This part also discusses regulations that are specific to the development of dermal drug products. The final chapter explores current and future trends, forecasting new development techniques and therapeutics. Throughout the book, the authors clearly set forth the basic science and experimental procedures, making it possible for researchers to design their own experimental approaches and accurately interpret their results. With contributions from experienced drug researchers, this text is highly recommended for all researchers involved in topical and transdermal product development who need to know both the state of the science and the standards of practice.

Jeffrey McCullough offers a concise, clinically focused and practical approach to this important area of medicine. This book offers complete guidance on the full range of topics from donor recruitment, blood collection and storage, to testing and transfusing blood components, complications and transmissible diseases, as well as cellular engineering, therapeutic apheresis, and the role of hematopoietic growth factors. It is a good introduction to transfusion for hematology or oncology fellows and technologists specialising in blood banking.

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 chapters on transplantation and dialysis in Acute Kidney Injury, including 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.

This practical guide provides the reader with answers to clinically relevant questions regarding the evaluation and management of acute kidney injury (AKI). All aspects of critical care nephrology are covered, from pathophysiology and diagnosis to prevention and treatment. The questions considered relate to a wide range of issues, such as: How do I diagnose AKI? How can I protect the kidney in clinical practice? How do I manage patients with AKI? When should I initiate and how do I perform renal replacement therapy (RTT)? Which type of RTT is most appropriate for my patient? Should I give specific nutrients? In addition to providing practical guidelines and treatment algorithms, the book includes calculators for continuous RTT and anticoagulant dosing. The authors are internationally renowned experts in the fields of Intensive Care Medicine and Nephrology and all contributions are written in a clear and concise style and have been peer reviewed. Acute Nephrology for the Critical Care Physician will serve as a very useful source for
intensivist internists, anesthesiologists and nephrologists involved in the management and treatment of critically ill patients at risk of or affected by AKI. 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.