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Proteomics in Nephrology

Anemia in the Elderly

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.

Treatment of Primary Glomerulonephritis

This book presents a comprehensive and instructive management plan for physicians who care for CKD patients. Basic aspects of CKD, clinical assessment, evaluation and management of risk factors, cardiovascular disease in the context of CKD, assessment and management of CKD complications, special circumstances in CKD patients, and the path to renal replacement therapy are all thoroughly covered. Diagnostic and therapeutic approaches are presented according to the latest staging system for CKD, with patient care being discussed separately for each disease stage. The proposed management plan is both “best available evidence based” and “practice based”. The book also recognizes the needs of busy clinicians by including helpful boxes summarizing the evidence on diagnostic and therapeutic issues and practice pearls based on guidelines. The authors are recognized experts from across the world, ensuring global coverage of the problem, and most have participated in writing guidelines on CKD.

Pediatric Nephrology

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.

Challenges in Pediatric Kidney Transplantation

The field of pediatric hypertension has undergone important changes in the time since the...
second edition of Pediatric Hypertension published. Much new information on hypertension in
the young has become available. Previous chapters have been fully revised and new chapters
have been added to cover important topics of recent interest such as consensus
recommendations, the prevalence of hypertension in the young due to the obesity epidemic,
studies of antihypertensive agents, and ambulatory blood pressure monitoring. Pediatric
Hypertension, Third Edition is a comprehensive volume featuring 38 chapters covering the
breadth of the current knowledge. It is divided into four sections: Regulation of Blood
Pressure in Children; Assessment of Blood Pressure in Children: Measurement, Normative Data,
Epidemiology; and Hypertension in Children: Predictors, Risk Factors, and Special
Populations; Evaluation and Management of Pediatric Hypertension. Filled with the most up-to-
date information, Pediatric Hypertension, Third Edition is an invaluable resource for
clinicians and researchers interested in childhood hypertension.

Pediatric Nephrology for Primary Care

Primary glomerulonephritis is a common renal disease which may eventually lead to chronic
renal failure. Treatment of glomerulonephritis is difficult. In particular the use of
steroids and immunosuppressive drugs require expertise, knowledge of the drugs, and
careful monitoring of the patient. Paradoxically, the treatment of glomerulonephritis has
become even more complicated in the recent years, after the introduction of a number of newer
immunosuppressive drugs. Extensively updated since publication of the first edition in 1997,
this comprehensive yet concise guide to the treatment of even the most complex patients with
primary glomerular diseases is full of practical information collected and organized in an
easy-to-read manner. It encompasses the possible treatments of the different types of primary
glomerulonephritis, including diseases intrinsic to the kidney of unknown or uncertain
aetiology. Each of the main chapters is devoted to a single primary glomerulonephritis and
follows a similar format to allow easy access of information. The book contains not only an
evidence-based review of the topic, but also practical recommendations from internationally
recognized experts in the field.

Pediatric Dialysis

This guide provides a comprehensive review of the full spectrum of hypertension in chronic
kidney disease (CKD). Targeted towards the busy practitioner, the focus of this volume is on
various therapies and how to lower blood pressure through lifestyle changes. Specialist
patient populations and hypertension and causes of hypertension are also covered in detail.
Clinically-focused and authoritative, this resource offers a rationalized approach to
diagnosing and treating hypertension in CKD.

Management of Acute Kidney Problems

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.

Palliative Care in Nephrology

Interventional Nephrology: Principles and Practice describes a very direct approach to
clinical problems encountered by the community of care providers who treat chronic kidney
disease and dialysis patients. Practical scenarios faced on a day-to-day basis are presented
by experts in the field utilizing the latest scientific information. In addition to internal
medicine residents, nephrology fellows and practitioners, this comprehensive and useful
resource is a must-have for the allied health professionals taking care of patients with
hemodialysis and peritoneal dialysis access problems.

Kidney & Pancreas Transplantation
Prepare for the nephrology boards with confidence! This comprehensive review book proportionally covers all topics listed in the American Board of Internal Medicine blueprint for the Nephrology Board, preparing you for success on the certification and recertification exam. The only review book of its kind, Nephrology and Hypertension Board Review features a concise outline format, line drawings, and tables that promote high-yield studying and effective retention of complex material. It's a must-have resource for mastering the wide knowledge base needed for nephrology board prep and clinical practice.

**Nephrology and Hypertension Board Review**

Since the publication of the first volume on proteomics in nephrology, methodologies and protocols for renal and urinary proteome analyses have been continuously improved, resulting in considerable progress towards clinical application. Proteomics not only contributes to a better understanding of the renal physiology and pathogenic mechanisms of kidney diseases, but also assists in the search for novel biomarkers for diagnostics and prognostics and supports the definition and development of new therapeutic targets and drugs for better therapeutic outcome. While the first volume focused mainly on an overview, technologies and methodologies, this volume highlights successful applications of proteomics to several kidney diseases, including acute kidney injury, nephrotic syndrome, diabetic nephropathy, renal allograft rejection, renal cell carcinoma, obstructive nephropathy, kidney stone disease, uremia, and others. Written by acclaimed experts in proteomics and nephrology, this book is an excellent resource of references for nephrologists, clinicians, pharmacists, other healthcare professionals, proteomists, physiologists, scientists, and trainees.

**Controversies in Acute Kidney Injury**

A timely update, Acute kidney injury (AKI) is a serious and as yet incompletely understood disorder in which sudden impairment of kidney function occurs secondary to one or more of a variety of underlying conditions. This disorder is very common in (elderly) ICU patients and is associated with very high mortality. Many of those who survive suffer from permanent kidney failure and other long-term morbidities, which may include cardiovascular disease and immune dysfunction. Epidemiologic evidence suggests that AKI is not a single disease, but a syndrome comprised of multiple, often coexisting, etiologies. Being usually part of multiorgan failure syndrome, it calls for multiple organ support therapy. The publication at hand contains sections on prerenal azotemia syndromes, dying of or with AKI, pathophysiology of sepsis-induced acute kidney injury, developments in prevention/treatment/rehabilitation, and renal support. Reporting the latest recommendations from experts, it provides valuable information for those that are interested in understanding the disorder and its treatment options.

**Clinical Decisions in Nephrology, Hypertension and Kidney Transplantation**

This comprehensive reference covers the impact of dietary phosphorus in phosphorus physiology, public health and the pathogenesis of disease. Divided into three parts, the first section is an overview of the history of phosphorus and the regulation of phosphorus homeostasis. The second section focuses on specific matters related to phosphorus in the food supply. Clinical applications of the material presented in the preceding sections are pulled together in the third section - including the importance of both phosphorus excess and phosphorus deficiency for the pathogenesis of a wide variety of disease including kidney, cardiovascular, bone and oncologic diseases. Clinical Aspects of Natural and Added Phosphorus in Foods is an indispensable resource for understanding the growing importance of dietary phosphorus content in health and disease, enhancing patient care and moving forward the field of phosphorus science.

**The Clinical Practice of Nephrology**

A concise review of the core principles and clinical entities associated with nephrology at the point of care. Covers all major acute and chronic kidney diseases, from acid/base disturbances to stones to end stage renal disease. Features a concise, manageable format with recommended timeframes for mastering the content, case studies, and summary tables. Perfect for trainees and practicing non-specialists.

**Interventional Nephrology**
Palliative care has become increasingly important across the spectrum of healthcare, and with it, the need for education and training of a broad range of medical practitioners not previously associated with this field of care. As part of the Integrating Palliative Care series, this volume on palliative care in nephrology guides readers through the core palliative knowledge and skills needed to deliver high value, high quality care for seriously ill patients with chronic and end-stage kidney disease. Chapters are written by a team of international leaders in kidney palliative care and are organized into sections exploring unmet supportive care needs, palliative care capacity, patient-centered care, enhanced support at the end of life, and more. Chapter topics are based on the Coalition for Supportive Care of Kidney Patients Pathways Project change package of 14 evidence-based best practices to improve the delivery of palliative care to patients with kidney disease. A n overview of the future of palliative care nephrology with attention to needed policy changes rounds out the text. Palliative Care in Nephrology is an ideal resource for nephrologists, nurses, nurse practitioners, physician assistants, social workers, primary care clinicians, and other practitioners who wish to learn more about integrating individualized, patient-centered palliative care into treatment of their patients with kidney disease.

Diabetes/Kidney/Heart Disease, An Issue of Cardiology Clinics

A complement to Guidelines for Nutrition Care of Renal Patients, 3e and Renal Care: Resources and Practical Applications. Features practical and authoritative guidelines for all stages and treatments of renal disease. Addresses the National Kidney Foundation's Disease Outcome Quality Initiative (NKF KDOQI) Guidelines. Provides practical nutrition intervention sections. Examines useful case studies. Offers helpful hints to treat common patient problems. Includes the latest information on Medical Nutrition Therapy. Represents a consensus formed by clinical practitioners on the basis of current scientific literature and experience. A Clinical Guide to Nutrition Care in Kidney Disease can also be used as a study tool for the CSR exam.

Moving Points in Nephrology

A cute 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.

Renal and Electrolyte Disorders

During the past quarter century there has been a renaissance of interest in the use of peritoneal dialysis as the primary dialytic modality for the treatment of children with end-stage renal disease (ESRD). The development of continuous ambulatory peritoneal dialysis (APD) has facilitated the provision of prolonged dialysis to infants, children and adolescents and has provided pediatric nephrologists worldwide with a real opportunity to administer effective dialysis therapy to all patients afflicted with ESRD. It has been more than a decade since the initial publication of CAPD/CCPD in Children. In the interim, a great deal of clinical experience with patients receiving peritoneal dialysis has been accumulated and research efforts have substantially increased our understanding of the technique. Therefore, we felt that a second edition of CAPD/CCPD in Children was propitious to update the advances of the past decade.
A cute kidney failure is an important clinical area in the intensive care unit setting. An estimated 5–20% of critically ill patients experience an episode of acute kidney failure during the course of their illness, and about 5% of patients admitted to an ICU will eventually require renal replacement therapy. In these patients, in-hospital mortality is extremely high, exceeding 50%. Thus, the early detection and causal treatment of acute kidney problems is vitally important for a successful outcome. Written by internationally renowned experts, this clinical reference offers helpful advice with the most recent information on the definition, epidemiology, pathophysiology, and clinical causes of acute kidney failure as a fundamental prerequisite for prevention of this disorder. Moreover, it also covers differential diagnostic approaches for patients with acute renal failure and provides a detailed outline of important measures for their clinical management. Finally, separate chapters are dedicated to various key aspects related to the adequate delivery of acute renal replacement therapy. It is intended as a helpful guide for all clinicians involved in the care of patients at risk of developing acute kidney problems.

**CURRENT Diagnosis & Treatment Nephrology & Hypertension, 2nd Edition**

Regarded as the “go-to” book for those seeking certification and recertification in nephrology with the American Board of Internal Medicine, Nephrology and Hypertension Board Review prepares you for success on the nephrology board exam. The fully updated second edition proportionally covers all topics listed in the blueprint for the exam, using a concise outline format, numerous illustrations, and many new features that promote high-yield studying and effective retention of complex material. Board-type questions in every chapter provide ample opportunity to practice and help you identify areas for further study.

**Management of Chronic Kidney Disease**

The third edition of a bestseller, this book provides insight from a wide array of international contributors in the field of pediatric nephrology. Copiously illustrated with photomicrographs and clinical diagrams, the third edition reflects current advances in the field. Each chapter contains a set of questions, directed at helping fellows succeed at the American Pediatric Nephrology Board examination. New information for this edition includes changes in treatment options for hyponatremia, and updates on hyperparathyroidism and transplantation. Text boxes highlight important “take home points” throughout the chapters. Clinical Pediatric Nephrology, Third Edition will be a valuable reference for clinicians in nephrology, pediatrics and urology, and any professional involved in the care of children with renal diseases seeking a reliable contemporary text.

**Nephrology and Hypertension Board Review**

A practical, up-to-date guide to the diagnosis, understanding, and treatment of kidney problems and hypertension in adult patients “In contrast to many other books in this area, this one provides a concise yet comprehensive review of each topic without getting lost in too much detail” – Doody’s Review Service (review of previous edition) Presented in the consistent, easy-to-follow CURRENT format, CURRENT Diagnosis & Treatment Nephrology & Hypertension, Second Edition delivers incisive, ready-to-use management protocols and valuable therapeutic guidelines from authors who are recognized as the field’s foremost authorities. This essential clinical companion features a practical learn-as-you-go approach to diagnosing and treating renal disorders and hypertension that combines disease management techniques with the latest proven therapies. NEW! Chapter-ending clinically based Q&A •NEW CHAPTERS include The Kidney in Malignancy, Chronic Kidney Disease-Mineral Bone Disorder (CKD-MBD), Palliative Care Nephrology, and Clinical Pharmacology and the Kidney •Fifty-nine chapters deliver a one-of-a-kind overview of all major diseases and disorders, from end-stage renal disease to primary and secondary hypertension •Emphasizes the clinical aspects of kidney care, while also providing comprehensive discussion of pathophysiology and relevant basic and clinical science •Includes an important review of subspecialty considerations: dialysis, transplantation, critical care nephrology, interventional nephrology, palliative care nephrology, clinical renal pharmacology, as well as a new area of specialization – onco-nephrology •Consistently formatted chapters make it easy to locate the essential information you need on diagnosis, testing, disease processes, and the latest treatment and management strategies •Valuable as a clinical refresher or for board review •Strikes the perfect balance between clinical necessity and brevity.
Uremic Toxins

A comprehensive update on clinical and basic aspects of diabetic nephropathy. Caused by an epidemic increase in obesity and diabetes and metabolic syndromes, diabetic nephropathy has become a leading cause of end-stage renal disease in many developed countries. The publication at hand provides a concise overview of the current state of clinical and basic research in the field. It starts with a summary of the epidemiology and genetics of diabetic nephropathy in different ethnic groups, followed by a review of its clinical manifestation, the link with the metabolic syndrome and obesity, and the pathology of diabetic nephropathy. Building on this basis, the latest findings on pathogenetic, epigenetic and inflammatory mechanisms are presented. The publication also looks at advances in the areas of tubulopathy and the kallikrein-kinin system as well as at the latest animal models and the role of lipoproteins and proteomics. This is followed by a discussion of promising therapeutic approaches such as experimental anti-fibrotic strategies, stem cell therapy and pancreatic transplantation; expert reviews on the emerging entity of new onset diabetes after transplantation and the preventive strategies for diabetic nephropathy conclude the material presented. Written by a panel of leading international experts, this book is highly recommended for nephrologists, diabetologists, internists, transplant physicians, scientists, geneticists, epidemiologists and stem cell biologists working in the field of diabetic nephropathy.

Handbook of Chronic Kidney Disease Management

"It was an enormous privilege and an intellectual feast to interact with the eminent contributors to this Handbook who somehow managed to find time in their busy schedules to distill for us their knowledge and expertise regarding all aspects of diagnosing, treating, and preventing progression of CKD. It was our goal to develop a book that would be useful across the world, and special effort was made to recruit authors from various parts of the globe to better reflect the range of practices and problems encountered in different countries. Strict attention was paid to referencing not only U.S. guidelines, but also those in the United Kingdom, Europe, Canada, and Australia, and to express laboratory values using both metric and SI units"--Provided by publisher.

Acute Kidney Injury

Anemia in the elderly has been properly defined as the silent epidemic, representing 3 million people in the United States aged 65 years and older. Incidence and prevalence of this condition increase with age. It differs in its etiology, pathogenesis and treatment from anemia in children and younger adults. Anemia is associated with reduced survival, increased risk of functional dependence and hospitalization, increased risk of congestive heart failure and stage renal disease and cognitive disorders. Approximately 70% of anemia in older individuals is reversible.

Nephrology in 30 Days

The responsibilities of the Pediatric Nephrologist in the Nephrologist and other involved specialists is vital to critical care setting are multifaceted. Management of optimize the outcome for each individual child. acute renal failure with and without renal replacement In this first edition of the book, we have included therapy, fluid and electrolyte abnormalities and hyper- chapters focused on general topics in pediatric neph- tensive emergencies are only some of the major clinical ogy that are most germane to the care of the critically circumstances where the renal specialist is involved in ill child. We have tried to look at the clinical situations the care of children admitted to the Pediatric Intensive from the aspect of both the Pediatric Intensivist and Care Unit. Due to the complex and specialized care renal specialist. We hope that this book will supply the required, critical care nephrology could even be consid- medical providers with a framework to approach the ered a separate entity compared to the clinical scenar- challenges faced in practicing Pediatric Intensive Care isios treated in the outpatient setting or on the inpatient Nephrology, pediatric ward.

Pediatric Nephrology in the ICU
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.

Clinical Pediatric Nephrology

Core Concepts in Hypertension in Kidney Disease

Clinical Pharmacokinetics

United States Renal Data System Annual Data Report

Handbook of Dialysis
CAPD/CCPD in Children

This book provides a comprehensive overview of the unique challenges inherent in pediatric kidney transplantation. The text reviews the problems faced during each stage of the kidney transplantation process, including the occurrence of infections during the pre-transplant stage, surgical challenges during the actual transplantation, and medication issues during the post-transplant stage. The book also features high-yield case presentations of typical pediatric transplant scenarios, from the pre-transplant management of a child with CAKUT to the evaluation and treatment of antibody-mediated rejection in children. Written by experts in the field, Challenges in Pediatric Kidney Transplantation: A Practical Guide is a valuable resource for clinicians, practitioners, and trainees who manage or are interested in this challenging group of patients.

Pediatric Hypertension

The female patient with chronic kidney disease often requires care that differs from the male patient. Particularly in the pregnant patient, a specialized body of knowledge is required to provide optimal care. This book focuses on such issues encountered during pregnancy including physiology and pathophysiology of pregnancy, hypertension, preeclampsia, various electrolyte disorders, nephrolithiasis, pharmacological management in the pregnant patient with kidney disease and during breastfeeding, acute kidney and chronic kidney disease, dialysis of the pregnant patient, lupus nephritis, thrombotic microangiopathy, glomerular disease management, use of renal biopsy during pregnancy, endocrine counseling and postpartum care, various endocrine disorders, and bone disease in the female patient with chronic kidney disease. This book features the latest evidence and clinical approaches for the beginner or for the experienced practitioners who care for pregnant women or even for those who require expertise in women’s health. Written by experts in the field, Obstetric and Gynecologic Nephrology: Women’s Health Issues in the Patient with Kidney Disease is a valuable resource for clinicians and practitioners involved in the care and treatment of obstetric and gynecologic patients afflicted with kidney disease.

Obstetric and Gynecologic Nephrology

This issue of Cardiology Clinics, guest edited by Drs. Silvi Shah and Charuhas V. Thakar, will focus on Diabetes/Kidney/Heart Disease. Topics include, but are not limited to, Cardiorenal syndrome-Pathophysiology; Cardiorenal syndrome- treatment; Hypertensive Emergencies; Contrast induced acute kidney injury; Acute Kidney Injury, Heart failure, and health outcomes; Hypertension management in CKD/ESRD/DM; Arrhythmias/ICD/LVAD, A fib, and dialysis; A pol1 and blood pressure changes/hypertension; Novel ant-diabetic therapies and CV reduction; and Hypertensive disorders of pregnancy.

Diabetes and the Kidney

In the present health care environment, primary care physicians are under pressure to refer fewer patients to specialists. They are expected to perform more diagnostic studies and treat more patients who have renal disease than ever before. As part of the for Primary Care line, this new resource will help primary care physicians diagnose and treat children with uncomplicated kidney problems and advise physicians when to refer to a specialist.

Continuous Renal Replacement Therapy

The entire range of renal diseases & disorders in children, from simple clinical problems & important glomerular diseases through to tubular disorders & the management of end-stage renal disease, is reviewed in this monograph. The challenges of the field are acknowledged while achieving a balance between clinical practice & research & between the established & the unknown. The editors offer unique insight into the development of the specialty, complemented by directions for future research & progress. This book, Volume 10 in the series Monographs in Clinical Pediatrics, addresses problems encountered by physicians treating children with renal disease, combines clinical detail & relevant research, highlights areas of controversy & unresolved issues of management, & offers indications for the future. Practicing & trainee nephrologists will value this rational guide to current practice, while pediatricians & all physicians involved in the care of children with renal disease will find it useful as an up-to-date review of a growing subspecialty.