Challenges And Controversies In Kidney Transplantation

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Issues in Kidney Disease
The podocyte is a key cell that forms the last barrier of the kidney filtration unit. One of the most exciting developments in the field of nephrology in the last decade has been the elucidation of its biology and its role in the pathophysiology of inherited and acquired glomerular disease, termed podocytopathy. In this publication, world-renowned experts summarize the most recent findings and advances in the field: they describe the unique biological features and injury mechanisms of the podocyte, novel techniques used in their study, and diagnosis and potential therapeutic approaches to glomerular diseases. Due to its broad scope, this publication is of great value not only for clinical nephrologists and researchers, but also for students, residents, fellows, and postdocs.

"Issues in Kidney Disease-Acute Kidney Injury is a collection of nineteen independent chapters written by internationally renowned authors, covering a wide range of topics, including the basic concepts and management of acute kidney injury (AKI), contrast induced nephropathy, acute tubular necrosis, interstitial nephritis, glomerulonephritis, obstructive uropathy, COVID-19, cardiorenal and hepatorenal syndrome. This book also addresses kidney injury in specialized populations like pregnant patients and patients with kidney transplant. A whole chapter is also dedicated to imaging in patients with kidney injury. This book will appeal to renal fellows, nephrologists, and practicing physicians involved in the care of AKI patients in critical care units and medical floors, including all those interested in the advances and innovations undergoing in this field. It brings timely and updated reviews and addresses trends, challenges, and controversies of kidney injury"--
Kidney Biomarkers

The here presented book covers different areas of clinical and scientific interest, reaching from donor evaluation to newest methods in immunological diagnostics. But also aspects of daily care of transplant recipients can be found in the carefully selected chapters. Everything driven by the aim to improve the care for all of our transplanted patients.

Nutrition: Concepts and Controversies

Nephrology and Fluid/Electrolyte Physiology, a volume in Dr. Polin’s Neonatology: Questions and Controversies Series, offers expert authority on the toughest neonatal nephrology and fluid/electrolyte challenges you face in your practice. This medical reference book will help you provide better evidence-based care and improve patient outcomes with research on the latest advances. Reconsider how you handle difficult practice issues with coverage that addresses these topics head on and offers opinions from the leading experts in the field, supported by evidence whenever possible. Find information quickly and easily with a consistent chapter organization. Get the most authoritative advice available from world-class neonatologists who have the inside track on new trends and developments in neonatal care. Stay current in practice with coverage on lung fluid balance in developing lungs and its role in neonatal transition; acute problems of prematurity: balancing fluid volume and electrolyte replacement in very-low-birth-weight and extremely-low-birth-weight neonates; and much more.

Geriatrics for Specialists
"This is a book about living solid organ donors as patients in their own right. This book is premised on the supposition that the field of living donor organ transplantation is ethical, even if some specific applications are not. Living donor organ transplantation is controversial at its core because it exposes one patient (the living donor) to clinical risks for the clinical benefit of another (the candidate recipient). It is different than obstetrics which also involves 2 patients—a pregnant woman and her fetus—because transplantation involves two physically individuated patients who, in most cases, individually consent to the medical interventions. And in many cases, the donor-recipient interdependence is optional because deceased donor organs may be available. So before one can begin, one must ask, even if only rhetorically: Is living donation ethical? The question is not new: one of the first to ask about the ethics of living donor transplantation was Joseph Murray, the surgeon credited with performing the first successful living donor kidney transplant which paved the way for the broad adoption of kidney and other solid organ transplantation around the world"--

**Acute Heart Failure**

*Challenges and Controversies in Kidney Transplantation* highlights the most up-to-date strategies for successfully managing high-risk kidney transplant recipients, as well as detailed, innovative strategies to increase transplant opportunities for patients requiring kidney transplantation. The book is divided into two major sections; firstly, Maximizing Transplant Opportunities, and second, Considerations for Unique/High Risk Patient Populations focusing on management of select patient populations, such as children, the elderly, HIV, Hepatitis C positive patients, highly sensitized patients, and patients who develop post-transplant polyomavirus nephropathy. Surgical topics include Laparoendoscopic Single Site and Robotic Donor Nephrectomy as minimally invasive surgical procedures to increase living donation, and the use of Paediatric Donor Kidneys in deceased donor kidney transplantation. In
addition, Challenges and Controversies in Kidney Transplantation also features discussion on the most difficult clinical management issues confronting Kidney Transplantation today, making it a relevant and essential reference for nephrologists, neurologists and residents. Key Points Concise and comprehensive guide to problems associated with kidney transplantation Full colour illustrations Authored by Sandip Kapur, Professor of Surgery at Weill Medical College – Cornell University, USA

Challenges and Controversies in Kidney Transplantation

This book aims to be a single point of reference for advances in the care of geriatric populations across medical and surgical specialties. The aging population is a unique demographic with its own health challenges. Geriatricians are specifically trained to address these challenges but few medical students or residents enter geriatrics, even as the demand for geriatric expertise increases. The practices of many medical and surgical specialists are dominated by older patients who may themselves see many specialists but rarely visit geriatricians. This updated edition elucidates the most common medical conditions seen in aging patients and translates approaches to those conditions for physicians across specialties. Divided into three sections that assemble crosscutting issues, medical specialties, and surgical and related specialties, this book serves as a guide for clinicians of all backgrounds who will work with older patients as the demographic ages further. This second edition of Geriatrics for Specialists expands the number of specialist chapters to reflect growth in research in aging and clinical care for older people in dermatology, plastic surgery, and behavioral neurology. All original chapters from the first edition are extensively revised and updated to reflect the rapid growth of new knowledge in the field.
Kidney to Share

Since laboratory testing and biomarkers are an integral part in the diagnosis and treatment of kidney disease, Kidney Biomarkers: Clinical Aspects and Laboratory Determination covers currently used biomarkers as well as markers that are in development. Laboratories are increasingly more involved in the follow-up confirmatory laboratory testing and this unique volume showcases the collaboration needed to solve diagnostic clinical puzzles between the laboratory and clinician. This volume provides guidance on laboratory test selection and results interpretation in patients. Sources of inaccurate results in the measurement of kidney biomarkers are discussed along with possibility of eliminating such interferences. Each chapter is organized with a uniform easy-to-follow format with insightful case examples highlighting the collaboration between clinical laboratorians and clinicians. Categorizes biomarkers into diagnostic markers, disease follow-up markers, and prognostic biomarkers. Include case examples to show the collaboration between the clinical laboratorian and clinician. Discusses the application of kidney biomarkers in clinical practice along with addressing laboratory aspects of kidney biomarker determination.

Management of Chronic Kidney Disease

Diseases of the Abdomen and Pelvis

This volume provides an overview of the most important current controversies in the field of pediatric intensive care. Organized into sections based on organ systems, the text focuses on controversies...
surrounding disease processes of the cardiac, respiratory, gastrointestinal, hematologic / immunologic, endocrine, and neurologic systems. Each chapter reviews the pros and cons of specific management approaches through case studies and the most up-to-date evidence-based resources, and concludes with bulleted take-home points for ease of use. Written by experts in the field, Pediatric Critical Care: Current Controversies is a valuable resource for intensivists, advanced practice providers, nurses, and other health care providers involved in the care of critically-ill children.

Tietz Textbook of Laboratory Medicine - E-Book

Kidney Development, Disease, Repair and Regeneration focuses on the molecular and cellular basis of kidney development, exploring the origins of kidney lineages, the development of kidney tissue subcompartments, as well as the genetic and environmental regulation of kidney development. Special coverage is given to kidney stem cells and possible steps towards kidney repair and regeneration. Emphasis is placed on the fetal origins of postnatal renal disease and our current understanding of the molecular basis of damage and repair. Biomedical researchers across experimental nephrology and developmental biology will find this a key reference for learning how the underlying developmental mechanisms of the kidney will lead to greater advances in regenerative medicine within nephrology. Offers researchers a single comprehensive resource written by leaders from both the developmental biology and the experimental nephrology communities Focuses on understanding the molecular basis of organogenesis in the kidney as well as how this can be affected both genetically and environmentally Explains the underlying developmental mechanisms which influence the kidney’s inherent repair capacity Demonstrates how a deeper understanding of mechanisms will lead to greater advances in regenerative medicine
Ethical Issues in Pediatric Organ Transplantation

In Kidney to Share, Martha Gershun tells the story of her decision to donate a kidney to a stranger. She takes readers through the complex process by which such donors are vetted to ensure that they are physically and psychologically fit to take the risk of a major operation. John D. Lantos, a physician and bioethicist, places Gershun's story in the larger context of the history of kidney transplantation and the ethical controversies that surround living donors. Together, they help readers understand the discoveries that made transplantation relatively safe and effective as well as the legal, ethical, and economic policies that make it feasible. Gershun and Lantos explore the steps involved in recovering and allocating organs. They analyze the differences that arise depending on whether the organ comes from a living donor or one who has died. They observe the expertise—and the shortcomings—of doctors, nurses, and other professionals and describe the burdens that we place on people who are willing to donate. In this raw and vivid book, Gershun and Lantos ask us to consider just how far society should go in using one person's healthy body parts in order to save another person. Kidney to Share provides an account of organ donation that is both personal and analytical. The combination of perspectives leads to a profound and compelling exploration of a largely opaque practice. Gershun and Lantos pull back the curtain to offer readers a more transparent view of the fascinating world of organ donation.

Nephrology and Fluid/Electrolyte Physiology: Neonatology Questions and Controversies E-Book

"Kidney disease is frequently described as a public health problem. This book will unpack what we mean by "public health" and by "taking a public health approach." We will consider the global burden of
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kidney diseases and their determinants, with a focus on chronic kidney disease"--

**Kidney Development, Disease, Repair and Regeneration**

This issue of Medical Clinics of North America, guest edited by Drs. David A. Sass and Alden M. Doyl, is devoted to Care of the Liver and Kidney Transplant Recipient. Articles in this issue include: Liver and kidney transplantation: a half-century historical perspective; From Child’s-Pugh to MELD: Deciding who really needs a liver transplant; When to consider renal transplantation in your advanced CKD patients; Management of the liver transplant recipient: approach to allograft dysfunction; Acute and chronic allograft dysfunction in renal transplant recipients; The ABC’s of Immunosuppression: a primer for the primary care physician; Managing cardiovascular risk in the post solid organ transplant recipient; Diabetes care after transplant: definitions, risk factors, and clinical management; De novo malignancies after transplantation: risk and surveillance strategies; Metabolic bone disease in the post-transplant population: preventative and therapeutic measures; Infectious complications and vaccinations in the post-transplant population; Selection and post-operative care of the living donor; and Long-term functional recovery, quality of life and pregnancy following solid organ transplantation.

**Issues in Dialysis**

Since 1972, many victims of endstage renal disease (ESRD) have received treatment under a unique Medicare entitlement. This book presents a comprehensive analysis of the federal ESRD program: who uses it, how well it functions, and what improvements are needed. The book includes recommendations on patient eligibility, reimbursement, quality assessment, medical ethics, and research needs. Kidney
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Failure and the Federal Government offers a wealth of information on these and other topics: The ESRD patient population. Dialysis and transplantation providers. Issues of patient access and availability of treatment. Ethical issues related to treatment initiation and termination. Payment policies and their relationship to quality of care. This book will have a major impact on the future of the ESRD program and will be of interest to health policymakers, nephrologists and other individual providers, treatment site administrators, and researchers.

Recent Advances in Cardiovascular Risk Factors

This new volume deals with a number of important and current topics in human nutrition that we hope will be of general interest to those concerned with this subject. We have first of all a chapter by J. S. Garrow and S. Blaza on energy requirements, which has a direct bearing on the problem of obesity, and which largely affects the populations of developed and affluent countries. This is followed by a chapter on fluoride and the fluoridation of water, under the authorship of G. N. Jenkins. The addition of fluoride to drinking water has given rise to a great deal of discussion both amongst scientists and the public at large, and the present account tries to give the scientific background and a critical evaluation of established facts. The chapter by G. Owen on the nutritional status of North Americans is also likely to be of interest to other countries, as the techniques used and the problems encountered are similar to those encountered in other parts of the world. A chapter on nitrates, nitrites and nitrosamines by S. R. Tannenbaum discusses a topic which again has engendered widespread interest amongst a large number of people, and where a balanced presentation of the relevant facts is particularly important. One of the fields in which biochemistry, physiology and nutrition have made enormous advances over the last few years is that of vitamin D and the new knowledge acquired on control of the metabolism of calcium and phosphorus.
Renal Anemia

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.

Continuous Renal Replacement Therapy

Kidney transplantation is a complex field that incorporates several different specialties to manage the transplant patient. This book was created because of the importance of kidney transplantation. This volume focuses on the complexities of the transplant patient. In particular, there is a focus on the comorbidities and special considerations for a transplant patient and how they affect kidney transplant outcomes. Contributors to this book are from all over the world and are experts in their individual fields. They were all individually approached to add a chapter to this book and with their efforts this book was
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formed. Understanding the Complexities of Kidney Transplantation gives the reader an excellent foundation to build upon to truly understand kidney transplantation.

Nephrology and Fluid/Electrolyte Physiology: Neonatology Questions and Controversies

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.

Current Topics in Tropical Emerging Diseases and Travel Medicine

If most Americans accept the notion that the market is the most efficient means to distribute resources, why should body parts be excluded? Each year thousands of people die waiting for organ transplants. Many of these deaths could have been prevented were it not for the almost universal moral hand-
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wringing over the concept of selling human organs. Kidney for Sale by Owner, now with a new preface, boldly deconstructs the roadblocks that are standing in the way of restoring health to thousands of people. Author and bioethicist Mark Cherry reasserts the case that health care could be improved and lives saved by introducing a regulated transplant organs market rather than by well-meant, but misguided, prohibitions.

Controversies in Acute Kidney Injury

This book offers a theoretical and practical overview of the specific ethical and legal issues in pediatric organ transplantation. Written by a team of leading experts, Ethical Issues in Pediatric Organ Transplantation addresses those difficult ethical questions concerning clinical, organizational, legal and policy issues including donor, recipient and allocation issues. Challenging topics, including children as donors, donation after cardiac death, misattributed paternity, familial conflicts of interest, developmental disability as a listing criteria, small bowel transplant, and considerations in navigating the media are discussed. It serves as a fundamental handbook and resource for pediatricians, transplant health care professionals, trainees, graduate students, scholars, practitioners of bioethics and health policy makers.

Renal Replacement Therapy

Well organized and highly readable, the National Kidney Foundation Primer on Kidney Diseases has offered clear, comprehensive coverage of adult and pediatric kidney diseases for more than 25 years. The thoroughly revised 8th Edition of this authoritative, practical reference covers every relevant topic in the field, making it an excellent resource for residency, fellowship, clinical practice, and board review. It
brings you completely up to date with key topics in this fast-changing field, including ongoing clinical research and changing treatment protocols. This powerful learning tool and clinical reference is a joint publication of Elsevier and the National Kidney Foundation. Covers every relevant topic in nephrology—from anatomy, physiology, and pathophysiology to diagnosis and management of kidney disease, to fluid and electrolyte disorders, hypertension, dialysis, and renal transplantation. Presents complex material in a clear, easy-to-understand manner that is both accessible for residents and fellows and comprehensive enough for practicing nephrologists. Offers new guidance for management of COVID-19 in the Viral Nephropathies chapter. Contains two new chapters on Global Kidney Disease, and Conservative Kidney Management (CKM), a palliative care option for treating kidney failure without dialysis.

Issues in Kidney Disease

Nourish your mind and body with NUTRITION: CONCEPTS AND CONTROVERSIES. More conversational than a pure-science text, this book explores the essentials of nutrition—including how the body breaks down and uses food, food safety, sports nutrition and special nutritional needs throughout the human life cycle—and asks you to weigh in on relevant debates, such as world hunger, chronic diseases, dietary guidelines and eating patterns. Available with the MindTap learning platform, the 15th edition also offers self-quizzing and activities to propel your learning from memorization to mastery. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Issues and Controversies on File
Issues in Kidney Disease - Dialysis is a collection of nineteen independent chapters written by internationally renowned authors, covering a wide range of topics, from the history and milestones to the future, in different renal replacement therapy modalities, such as hemodialysis, online hemodiafiltration, and peritoneal dialysis. This book will appeal to renal fellows, nephrologists, and physicians involved with chronic kidney disease patients on maintenance dialysis, including all those interested in the advances and challenges still facing medicine. It brings timely and updated reviews and addresses trends, challenges, and controversies of dialysis therapies.

Kidney for Sale by Owner

"Issues in Kidney Disease-Transplantation is a collection of seventeen independent chapters written by renowned authors, covering a wide range of topics, from the overview of transplantation, the complex process of paired organ donation, transplantation in highly sensitized recipients, recurrent disease following transplantation, controversies in multi-organ transplantation, the successes in short and long-term outcomes after kidney transplantation, and the complex issues of ethics in transplantation. This book will appeal to renal fellows, nephrologists, and other physicians involved with kidney transplantation, transplant coordinators, social workers, and other allied health professionals. It brings timely and updated reviews, addresses important controversies in kidney transplantation, and outlines opportunities for future research"--

Understanding the Complexities of Kidney Transplantation

The revised, updated Fourth Edition of this popular handbook provides practical, accessible information
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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.

National Kidney Foundation Primer on Kidney Diseases, E-Book

Despite our efforts at creating clinical performance measures, clinical practice guidelines and intense government regulations, we still have disparities in care, poor outcomes and quality that is inferior to many other nations. Bundling and payment reform challenge the ability to deliver good care to patients even further. Chronic dialysis is at a crossroads. Physicians and providers must incorporate new approaches, reinventing the paradigm of how to plot the course of patient therapy. This book offers new ideas. It is refreshing, timely and engaging, with a wide range of topics by leading authors, each designed to help meet the challenges yet to come.

Congenital Anomalies of the Kidney and Urinary Tract

This comprehensive, easy to read reference addresses the clinical implications of congenital anomalies of the kidney and urinary tract (CAKUT) in children. Authored by a panel of internationally recognized
pediatric nephrologists and urologists, chapters discuss clinical presentation, workup, interpretation of imaging studies, genetics, prenatal diagnosis, prevention and treatment of various anomalies to help the practitioner understand, diagnose and manage CAKUT. Tables, figures, algorithms and an extensive appendix listing conditions and syndromes associated with CAKUT are featured to assist physicians in the differential diagnosis and workup of different conditions.

Nephrology and Public Health Worldwide

Controversies and trends have been a constant presence in nephrology. Likewise, since its inception and throughout its development, renal replacement therapy has been shrouded in an atmosphere of uncertainty, always with an eye on the future. Renal Replacement Therapy: Controversies and Future Trends is a collection of independent chapters written by eminent authors, focused on topics relevant to modalities of renal replacement therapy. This book addresses controversies and future trends in peritoneal dialysis, hemodialysis, and kidney transplantation. It covers issues from kidney patient education to new technologies in end stage renal disease management, including trends in arteriovenous access, convective therapies, the concept of incremental hemodialysis, fluid overload in hemodialysis and iron therapy. Regarding renal transplantation, it discusses a variety of subjects, highlighting xenotransplantation, organ bioengineering, immunosuppressive therapies, and living donor bioethics issues. This book may appeal to nephrologists and physicians involved with renal replacement therapy and all those interested in the advances and challenges still facing medicine. It is, at the same time, a didactical textbook providing valuable and updated medical information and also represents the current thinking of great authors of our time on the subject. To a certain extent, it will also have historical value and may be considered a landmark of ideas in the field of nephrology.
The Living Organ Donor As Patient

A volume in Dr. Polin's Neonatology: Questions and Controversies Series, offers expert authority on the toughest neonatal nephrology and fluid/electrolyte challenges you face in your practice. This medical reference book will help you provide better evidence-based care and improve patient outcomes with research on the latest advances. Reconsider how you handle difficult practice issues with coverage that addresses these topics head on and offers opinions from the leading experts in the field, supported by evidence whenever possible. Find information quickly and easily with a consistent chapter organization. Get the most authoritative advice available from world-class neonatologists who have the inside track on new trends and developments in neonatal care. Purchase each volume individually, or get the entire 6-volume set! Stay current in practice with coverage on lung fluid balance in developing lungs and its role in neonatal transition; acute problems of prematurity: balancing fluid volume and electrolyte replacement in very-low-birth-weight and extremely-low-birth-weight neonates; and much more.

Human Nutrition

Medical Care for Kidney and Liver Transplant Recipients, An Issue of Medical Clinics of North America, E-Book

Tropical emerging diseases pose a significant risk for the circulation of old and new pathogens in areas previously unknown, also implying the possibility of new morbidities and mortalities and new consequences for naïve populations. Globalization, migration and travel are key factors for tropical
diseases, and represent the need for integration of tropical medicine, travel medicine and epidemiology in the understanding of such complex situations. Neglected tropical diseases such as leprosy or Chagas disease, arboviral diseases, HIV, Ebola, and arenaviral infections are just a few examples. This book tries to update significant epidemiological and clinical research in many aspects with a multinational perspective.

**Issues in Kidney Disease - Dialysis**

Is the nephrology community facilitating excess cardiovascular deaths in patients with kidney failure and anemia by treating to a subnormal hematocrit? Why have clinicians and nephrologists permitted health insurance companies and the government to decide when anemia therapy should begin in persons with progressive kidney failure? Is iron the only variable that can be manipulated to maximize response to recombinant erythropoietin? Are we using too much intravenous iron in kidney failure patients, and is oral iron supplementation worthless in sustaining iron stores during long-term erythropoietin treatment? When does left ventricular hypertrophy begin to emerge in patients with progressive renal disease and is there convincing evidence that anemia is a significant cause of LVH in this setting? Is darbepoetin alfa, a new novel, long-acting erythropoietin, really superior to recombinant erythropoietin? This book is a compilation of proceedings from a conference in Brooklyn convened to address these and other controversial and unresolved issues in renal anemia management.

**Kidney Transplantation, Bioengineering, and Regeneration**

Use THE definitive reference for laboratory medicine and clinical pathology! Tietz Textbook of
Laboratory Medicine, 7th Edition provides the guidance necessary to select, perform, and evaluate the results of new and established laboratory tests. Comprehensive coverage includes the latest advances in topics such as clinical chemistry, genetic metabolic disorders, molecular diagnostics, hematology and coagulation, clinical microbiology, transfusion medicine, and clinical immunology. From a team of expert contributors led by Nader Rifai, this reference includes access to wide-ranging online resources on Expert Consult — featuring the comprehensive product with fully searchable text, regular content updates, animations, podcasts, over 1300 clinical case studies, lecture series, and more. Authoritative, current content helps you perform tests in a cost-effective, timely, and efficient manner; provides expertise in managing clinical laboratory needs; and shows how to be responsive to an ever-changing environment. Current guidelines help you select, perform, and evaluate the results of new and established laboratory tests. Expert, internationally recognized chapter authors present guidelines representing different practices and points of view. Analytical criteria focus on the medical usefulness of laboratory procedures. Use of standard and international units of measure makes this text appropriate for any user, anywhere in the world. Expert Consult provides the entire text as a fully searchable eBook, and includes regular content updates, animations, podcasts, more than 1300 clinical case studies, over 2500 multiple-choice questions, a lecture series, and more. NEW! 19 additional chapters highlight various specialties throughout laboratory medicine. NEW! Updated, peer-reviewed content provides the most current information possible. NEW! The largest-ever compilation of clinical cases in laboratory medicine is included on Expert Consult. NEW! Over 100 adaptive learning courses on Expert Consult offer the opportunity for personalized education.

Handbook of Dialysis

In Kidney to Share, Martha Gershun tells the story of her decision to donate a kidney to a stranger. She
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takes readers through the complex process by which such donors are vetted to ensure that they are physically and psychologically fit to take the risk of a major operation. John D. Lantos, a physician and bioethicist, places Gershun's story in the larger context of the history of kidney transplantation and the ethical controversies that surround living donors. Together, they help readers understand the discoveries that made transplantation relatively safe and effective as well as the legal, ethical, and economic policies that make it feasible. Gershun and Lantos explore the steps involved in recovering and allocating organs. They analyze the differences that arise depending on whether the organ comes from a living donor or one who has died. They observe the expertise—and the shortcomings—of doctors, nurses, and other professionals and describe the burdens that we place on people who are willing to donate. In this raw and vivid book, Gershun and Lantos ask us to consider just how far society should go in using one person's healthy body parts in order to save another person. Kidney to Share provides an account of organ donation that is both personal and analytical. The combination of perspectives leads to a profound and compelling exploration of a largely opaque practice. Gershun and Lantos pull back the curtain to offer readers a more transparent view of the fascinating world of organ donation.

Current Issues and Future Direction in Kidney Transplantation

Kidney Transplantation, Bioengineering, and Regeneration: Kidney Transplantation in the Regenerative Medicine Era investigates how the field of regenerative medicine is changing the traditional premises of solid organ transplantation, specifically within the field of kidney transplantation. In Section 1, chapters illustrate the state of the art in kidney transplantation as well as the research behind the bioengineering and regeneration of kidney organoids for therapeutic renal replacement. In Section II, chapters catalog the technologies that are being developed and the methods that are being implemented to bioengineer or regenerate kidneys in order to restore function, while critically highlighting those technological
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advances which hold the most promise. The book thus encompasses clinical renal transplantation, tissue engineering, biomaterial sciences, stem cell biology, and developmental biology, as they are all applied to the kidney. Focuses on the synergy between renal organ transplantation and regenerative medicine, highlighting the advances within transplantation, bioengineering, regeneration, and repair. Educates the transplant community on important regenerative medicine research pertinent to kidney transplantation. Develops a shared language for clinicians, surgeons, and basic researchers to reach across the fields of transplantation and regenerative medicine, and facilitate more productive investigation and research. Catalogs the technologies being developed and methods being implemented to bioengineer or regenerate kidneys to restore function.

Kidney Failure and the Federal Government

Among the non-communicable diseases, cardiovascular disorders are the leading cause of morbidity and mortality in both the developed and the developing countries. The spectrum of risk factors is wide and their understanding is imperative to prevent the first and recurrent episodes of myocardial infarction, stroke or peripheral vascular disease which may prove fatal or disabling. This book has tried to present an update on risk factors incorporating new research which has thrown more light on the existing knowledge. It has also tried to highlight regional diversity addressing such issues. It will hopefully be resourceful to the cardiologists, general practitioners, family physicians, researchers, graduate students committed to cardiovascular risk prevention.

Podocytopathy
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For many years, there has been a great deal of work done on chronic congestive heart failure while acute heart failure has been considered a difficult to handle and hopeless syndrome. However, in recent years acute heart failure has become a growing area of study and this is the first book to cover extensively the diagnosis and management of this complex condition. The book reflects the considerable amounts of new data reported and many new concepts which have been proposed in the last 3-4 years looking at the epidemiology, diagnostic and treatment of acute heart failure.

Kidney to Share

This syllabus provides a wide overview of the latest developments in diagnostic work and intervention in diseases of the abdomen and pelvis. In addition to conventional diagnostic radiology, special procedures such as US, CT, MRI, nuclear medicine and interventional techniques are discussed.

Issues in Kidney Disease

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.