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AACN Procedure Manual for High Acuity, Progressive, and Critical Care - E-Book - AACN 2016-12-02
The AACN Procedure Manual for High Acuity, Progressive, and Critical Care, 7th Edition, authored by the American Association of Critical-Care Nurses, is the authoritative reference to procedures performed in high acuity, progressive, and critical care settings. It visually guides you through procedures unique to the adult critical care environment, including those performed by advanced practice nurses, in an illustrated, step-by-step format. This edition features 17 new procedures, new illustrations, and updated content throughout, reflecting the latest evidence-based guidelines and national and international protocols. Authored by the American Association of Critical-Care Nurses, the foremost authority in critical care nursing, the AACN Procedure Manual is the most authoritative reference to procedures performed by nurses in high acuity, progressive, and critical care settings. Comprehensive coverage includes all procedures commonly performed by nurses in high acuity, progressive, and critical care settings, including those performed by advanced practice nurses (indicated by an AP icon). A straightforward step-by-step organization uses consistent headings to make following a procedure (and finding the various supporting elements) quick and easy. Rationales for all interventions in patient and family education, assessment, patient preparation, procedure, and monitoring help you understand the reason for every step. The level of evidence is provided when an evidence base exists to substantiate an intervention, giving insight into the strength of information available. Advanced practice procedures are clearly identified with an AP icon so you can judge whether a procedure is within your scope of practice. Alphabetical Procedure Index inside the front cover provides quick access to the procedures. Written by more than 100 expert critical care nurses and extensively reviewed by more than 100 experts in critical care nursing to ensure the accuracy and currency of each procedure. Bulleted lists, tables, and detailed illustrations throughout ensure that content is easy to reference and digest. NEW! Updated content throughout reflects the latest evidence-based guidelines and national and international protocols. NEW! 17 new procedures reflect major additions to nursing practice in high acuity, progressive, and critical care settings. NEW! Engaging new illustrations of procedures, equipment, and techniques are integrated throughout.

Clinical Practice Guidelines For Chronic Kidney Disease - 2002

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

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

application.

Moody's International Manual - 1998

Hemodiafiltration - Claudio Ronco 2007-01-01

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

AACN Procedure Manual for Critical Care - E-Book - AACN 2013-11-18

The AACN Procedure Manual for Critical Care, 6th Edition presents procedures for the critical care environment in an illustrated, consistent, and step-by-step format. The Procedures and Patient Monitoring sections are presented in a tabular format that includes special considerations and rationales for each intervention. References have been meticulously reviewed to ensure that the most authoritative and timely standards of practice are used. Additionally, the references supporting care recommendations are identified according to the latest AACN Evidence Leveling System to ensure that you have a complete understanding of the strength of the evidence base. UNIQUE! AACN-sponsored content ensures the highest standards of practice Comprehensive, clear, easy-to-use format allows you to quickly find and review the exact content you need Rationales provide complete information on every procedure Identified AP procedures help you judge whether a procedure is in your scope of practice Patient safety highlighted with new icons for patient identification and time-out Joint Commission Universal Protocols CDC Standard Precautions for hand washing and applying protective clothing and equipment highlighted with new icons UNIQUE! Clarity of Evidence Leveling helps you quickly grasp the strength of the evidence supporting the care recommendations Reviewed and Updated References comply with the highest standards of critical care practice Alphabetical procedures index inside the front cover provides easy access Reader-friendly design changes make it easier to identify and utilize special features

The Essentials in Hemodialysis - P. Jungers 2012-12-06

At the end of 1976 there were 34,215 people with end-stage renal disease alive on dialysis and transplantation within the registry centers of the European Dialysis and Transplant Association (14:4, 1977). From July, 1973, when the American Government began to fund dialysis, the estimated number of

dialysis patients in the United States has risen from 5,000 plus to over 35,000. If we add other regions, such as Canada, Australasia and Latin America, it is safe to say that as this is written, over 100,000 people are living on dialysis. The U.S. Social Security System, Veterans Administration, Medicaid and State Agencies are now paying out over one billion dollars annually to support patients on dialysis in the U. S.A. Cobe, Redy, Travenol, Dow Cordis, Drake Willock, Gambro, Asahi, Erica and a host of other company names have become household words in many households throughout the world. I cite these factors not out of a pretense at precision or a passion for phenomenology, but simply to indicate that dialysis has become more than this century's therapeutic miracle. (Perhaps the first treatable fatal chronic, terminal, medical disease I). It has also become big business! As such, it has perhaps become too important to be left solely in the hands of medical specialists, such as nephrologists.

Manual of Clinical Dialysis - Suhail Ahmad 2009-03-31

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.

Short Dialysis - Andrea Cambi 2012-12-06

Vittorio E. Andreucci of keeping alive patients in terminal chronic Initially created with the purpose renal failure, dialysis has undergone improvements in methodology, and its final goal has become complete health rehabilitation and optimization of the quality of life of chronic dialysis patients. To achieve this, many investigators have attempted to increase dialysis efficiency and at the same time shorten dialysis time. Their main concern was, obviously, patient safety: the Latin proverb 'primum non nocere' is still valid all over the world. Thus, when clinical observations of the first patients on regular dialysis therapy suggested an inverse relationship between duration of dialysis sessions and severity of peripheral neuropathy, long and frequent dialysis sessions were considered the only way to prevent the catastrophic consequences of nerve damage and underdialysis syndrome. It was then, in 1971, when dialysis duration was 8- 12 hours per session, that Vincenzo Cambi started a 'short dialysis' trial, i. e. , 4 hours 3 times weekly or 3 hours every second day. For the first time, dialysis was shortened from 24-36 hours weekly to 10. 5-12 hours weekly [1, 2]. In 1971 I was still at the Parma University Hospital. We had both just returned from the United States, and Dr. Cambi was responsible for the dialysis unit.

Chronic Kidney Disease, Dialysis, and Transplantation E-Book - Jonathan Himmelfarb 2018-11-06

Contains expanded content on economics and outcomes of treatment, as well as acute kidney injury. Covers hot topics such as the genetic causes of chronic kidney disease, ethical challenges and palliative care, and home hemodialysis. Discusses the latest advances in hypertensive kidney disease, vitamin D deficiency, diabetes management, transplantation, and more. Provides a clear visual understanding of complex information with high-quality line drawings, photographs, and diagnostic and treatment algorithms.

Handbook of Dialysis Therapy E-Book - Allen R. Nissenson 2007-09-28

Here's an in-depth, quick-reference, problem-solving resource for those involved in the care of dialysis patients. More than 120 world-class authorities discuss dialysis techniques, mechanical considerations, and complications related to various diseases for both pediatric and adult patients. Selected annotated references and excellent cross-referencing between chapters help you find answers fast, and more than 100 photos, drawings, charts, and tables, mostly in color, clarify complex topics. Providing practical, immediately useful guidelines that can be applied directly to patient care, this book is a "must-have" for all dialysis caregivers. Presents the practice-proven experience of top experts in the field of dialysis treatment. Offers dialysis guidance for both adult and pediatric patients in one convenient source. Features a readable hands-on approach, allowing you to quickly review the complicated concepts of dialysis. Includes helpful annotated bibliography lists in each section for further in-depth research on any subject. Explains complex dialysis concepts through abundant diagrams, photos, line drawings, and tables. Features a new 4-color format, enabling you to find the guidance you need more quickly. Includes coverage of convective dialytic therapies and the results of recent clinical trials. Ensures that you keep current on pediatric dialysis concerns prevention and treatment with new chapters including prevention and treatment of bone disease,

management of anemia, assessing quality of life in pediatric patients undergoing dialysis, and immunizations in children undergoing dialysis.

Replacement of Renal Function by Dialysis - Walter H. Hörl 2013-06-05

The leading Textbook on the subject. A completely rewritten and up-to-date fifth edition, based upon the highly respected fourth edition, edited by C. Jacobs, C.M. Kjellstrand, K.M. Koch and J.F. Winchester. This new edition is truly global in scope and features the contributions of the top experts from around the world. *ISCCM Manual of RRT and ECMO in ICU* - Rajesh Chandra Mishra 2020-02-29

Manual of Renal Transplantation - S. N. Chatterjee 2012-12-06

As any new field in medicine develops, an the history of transplantation and the current accompanying documentation occurs in a real status of hemodialysis as it relates to trans sonable and logical sequence. Early in the de plantation. In addition, the areas of tissue his to velopmental life of clinical transplantation, compatability typing, patient evaluation, the many research articles and case reports were transplant operation, immunosuppressive drugs, presented in the literature, and shortly there and follow-up investigations are well and clearly after, a series of textbooks were published. documented, as are the medical complications These textbooks dealt primarily with the per and the psychiatric and social problems en sonal experiences of clinicians working in the countered in kidney transplantation. major centers, who were embarking in the new Although Dr. Chatterjee draws primarily on field, as were Dr. Starzl, Dr. Calne, Dr. Sim his own experiences, he fairly presents all the mons, and myself. This field of investigation has issues in areas in which there is controversy or now become an accepted clinical discipline, and differences of opinion. Most major university thus it is highly desirable that a manual should medical centers now have a clinical renal trans be available for the residents and house staff plantation service, and I feel that this manual who will receive training in this important area. will be an invaluable tool for their house staff In this manual, Dr. Satya N. Chatterjee pre and students alike.

A Practical Handbook on Pediatric Cardiac Intensive Care Therapy - Dietrich Klauwer 2018-11-11

This book combines valid physiology and treatment strategies with the institutional experience of one of the leading German pediatric heart centers. It is intended as a pragmatic guide, focusing on daily practice and bedside medicine: straightforward, easy to implement, and results-oriented. It offers readers a profound understanding of intensive care, with a specific focus on organ systems, their interactions, and the effect of life support technologies, pursuing a comprehensive approach to congenital heart defects and therapies, including pitfalls and solutions. The target group is extended towards pediatric cardiologists and anesthesiologists by integrating chapters on the systematic analysis of hemodynamics and anatomy, diagnostics and treatment of congenital heart defects, plus a chapter on modern anesthesiology during heart operations with a focus on early extubation that minimizes on-pump and medication trauma. As such, the book offers a pragmatic and clinically oriented guide for physicians with advanced experience and expertise in (cardiac) intensive and intermediate care, as well as beginners and junior physicians.

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

On-line HDF represents a major technical development in the delivery of hemodialysis therapy: It combines the properties of increased diffusion available in current high-flux membranes with convective removal of between 6 and 30 liters per treatment and requires the use of ultrapure water and online filtration of replacement fluid. On-line HDF has been successfully introduced in Europe and Asia and is routinely prescribed for dialysis patients in these regions. The book at hand summarizes the history and achievements of on-line HDF in four parts: A report of the technological development in both machine and fiber/dialyzer is followed by a description of the challenges encountered in the evolution of on-line HDF, collecting the accounts of clinical key opinion leaders who had been involved in its early application. The third part presents a comprehensive review of the clinical results achieved with on-line HDF from its inception to the present times, in which it represents the clinical golden standard. The fourth and final part is dedicated to on-line HDF as a 'vision' for the future.

AACN Procedure Manual for Critical Care - Debra J. Lynn-McHale Wiegand 2005

AACN Procedure Manual for Critical Care offers comprehensive coverage of procedures unique to the critical care environment. This edition is thoroughly revised, updated, and expanded to reflect the current

state of critical care nursing practice. Information is presented in a highly illustrated step-by-step format with supporting rationales for each step of every procedure. This resource also emphasizes evidence-based practice and provides complete coverage of the latest clinical studies. Each procedure is organized in a consistent, step-by-step format with categories that include: prerequisite nursing knowledge, equipment, patient and family education, patient assessment and preparation, procedure, expected outcomes, unexpected outcomes, patient monitoring and care, and documentation. Each procedure is supported by research-based data. Advanced practice procedures are noted with a special AP icon indicating that these procedures should be done only by qualified personnel. 19 new procedures discuss topics such as combitube insertion and removal, transesophageal echocardiography, and patient controlled analgesia. A new Quick Tips feature - located in the Special Considerations column for quick reference - highlights key words and key concepts for each procedure. A new web-enhanced feature at the beginning and end of each procedure directs readers to online supplement materials such as additional art and photographs. Web links connect users to hundreds of continually updated web sites that contain information relevant to critical care nursing practice. 200 new line drawings clearly illustrate important techniques and bring key procedures to life.

Handbook of Dialysis - John T. Daugirdas 2012-02-20

The revised, updated Fourth Edition of this popular handbook provides practical, accessible information on all aspects of dialysis, with emphasis on day-to-day management of patients. Chapters provide complete coverage of hemodialysis, peritoneal dialysis, special problems in dialysis patients, and problems pertaining to various organ systems. This edition reflects the latest guidelines of the National Kidney Foundation's Kidney Disease Outcomes Quality Initiative (KDOQI) on hemodialysis and peritoneal dialysis adequacy and on nutrition. New chapters cover chronic kidney disease management in predialysis patients, frequent daily or nocturnal hemodialysis, and hemodiafiltration. Chapters on venous and arteriovenous access have been completely revised. Each chapter provides references to relevant Web sites.

Medizintechnik - Erich Wintermantel 2009-05-13

Mit dem Standardwerk gewinnen Leser einen umfassenden Einblick in die diagnostische und therapeutische Medizintechnik, in das Life Science Engineering und wichtige angrenzende Gebiete. Die 5. Auflage wurde u. a. um Themen wie sportorthopädische Medizintechnik, Blutpräparate und Textilien für Implantate ergänzt. Die Zertifizierung für Medizintechnik, Kosmetik, Pharma und Nahrungsmittel nimmt erstmals umfassenden Raum ein und berücksichtigt damit die verschiedenen nationalen Regelungen, die für das Inverkehrbringen der jeweiligen Produkte gelten.

ABA/BNA Lawyers' Manual on Professional Conduct - 2004

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

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

Pediatric Dialysis - Bradley A. Warady 2021-03-30

The optimal management of children who receive dialysis therapy requires a thorough understanding of the multidisciplinary nature of their treatment. The multiple organ systems that are often impacted by acute and chronic impairment of kidney function makes the care of this patient population highly complex. This 3rd edition of Pediatric Dialysis provides authoritative and comprehensive information on all aspects of dialysis-related care for children to assist the clinician in achieving the best possible patient outcomes. Like the two preceding editions, the 3rd edition enlists experts from North America, South America, Europe, and Asia to provide their perspectives on virtually all issues pertaining to dialysis-related management for

children, based on years of clinical and research experience. The book contains sections on all essential topics including when to initiate dialysis, peritoneal dialysis, hemodialysis, managing secondary complications, nutritional therapy, drugs and dialysis, dialysis outcomes, and transition to adult care. Each chapter has been thoroughly updated in terms of content and references. The book also includes several new chapters on topics such as remote patient monitoring, acute kidney injury management in the developing world, and antibiotic stewardship in the dialysis unit, maintaining the text's preeminent status as a worldwide source for pediatric dialysis care.

Critical Care Nephrology - Claudio Ronco 2009-01-01

"This 2nd edition of Critical care nephrology continues to provide comprehensive coverage of the latest advances in critical care procedures for the adult or pediatric patient with renal diseases or disorders. It presents a common language and standardized guidelines to help multi-disciplinary physicians caring for the critically ill communicate more effectively."--BOOK JACKET.

Pediatric Dialysis - Bradley A. Warady 2012-12-06

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

Intensive Care Manual - T. E. Oh 1985

The new edition (first published 1979; last 1990) of this working textbook provides practical, concise information on the background, recent advances, and controversial issues of most conditions encountered in an Intensive Care Unit. Includes recent updates on such topics as HIV, oxygen monitoring and delivery, novel treatment for SIRS, and pediatric intensive care. Includes three new sections: environmental injuries, pharmacological considerations, and transplantation. Annotation copyrighted by Book News, Inc., Portland, OR

The Biomedical Engineering Handbook - Joseph D. Bronzino 2018-10-03

The definitive "bible" for the field of biomedical engineering, this collection of volumes is a major reference for all practicing biomedical engineers and students. Now in its fourth edition, this work presents a substantial revision, with all sections updated to offer the latest research findings. New sections address drugs and devices, personali

Database - 1990

Health Devices - 1983

Hemodialysis Dose and Adequacy - 2001

Continuous Arteriovenous Hemofiltration (CAVH) - Heinz-Günter Sieberth 1985

The Hemodialysis Equipment and Disposables Industry - Anthony A. Romeo 1984

Replacement of Renal Function by Dialysis - J.F. Maher 1989-02-28

developed. When I did not identify European colleagues In this rapidly evolving field it is appropriate to update frequently our state of the art knowledge of uremia therapy. who had the expertise who could expend the time and with Hence, this third edition of Replacement of Renal Function whom I could work so smoothly, I began alone. by Dialysis appears before many of its predecessors have Although I was tempted to ask all the same authors as had been destroyed by normal wear and tear over 11 and 6 years written so

well previously to contribute again, I realized that the new edition must be revitalized. Accordingly a fraction of use, respectively. The first two editions of this book were designed to be of the authors changed, some new topics have been added integrated comprehensive reviews of the pertinent aspects and others have been deleted. The multinational character of dialysis and related fields with sufficient clarity for the of authorship has been maintained. Existing chapters have novice to learn, yet adequate depth for the expert to rely on been rewritten thoroughly, and new authors have provided them as encyclopedic desk references on renal replacement as requested a full discussion and bibliography in keeping therapy. Based on the favorable readers' comments and with the previous editions.

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

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

Hospital Cost Containment and End Stage Renal Disease Program - United States. Congress. Senate. Committee on Finance. Subcommittee on Health 1978

Manual of Vascular Access, Organ Donation, and Transplantation - R.L. Simmons 2012-12-06

This book is a compilation of common and uncommon surgical and ancillary techniques that we have found useful in the multiorgan transplantation program at the University of Minnesota. Descriptions of these techniques are not available at a single source elsewhere. Use the book as a teaching aid, a source of workable techniques, and as a reference for individuals with relatively little experience in a particular area of transplantation. Because of the varying levels of expertise of our readers, vascular access is described in exquisite detail, as it is aimed at an audience of individuals who want to learn the fine points about how to prolong the function of shunts. The chapter on organ preservation is aimed at the surgeon or beginning technician who must learn how to do it from scratch--even the catalogue numbers of the necessary equipment are included. In contrast the chapters on heart, liver, and pancreas transplantation, while omitting fine points of suture technique, concentrate on the essential principles and safeguards. Individuals contemplating such transplants are presumably already schooled in the fine points of surgical technique. The chapters on cadaver organ donation are perhaps the most innovative. They represent our attempt to reorganize organ donation in a way that will provide the greatest usefulness of each donor as a source for multiple organs for transplantation. We hope that the book will become available to centers that, while not performing liver, pancreas, or heart transplants, wish to serve as donation centers.

Automated Peritoneal Dialysis - Claudio Ronco 1999-01-01

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

permeability, transport mechanisms and kinetic modeling applied to APD; prescription and adequacy of different APD treatment schedules; dialysis machines and solutions for APD, and, lastly, different clinical aspects such as the possibility to maintain APD program and residual renal function. Physicians involved in ESRD care, renal fellows and scientists both in the academic world and in the hospital setting will undoubtedly profit from this timely publication.

Manual of Extracorporeal Membrane Oxygenation (ECMO) in the ICU - Poonam Malhotra Kapoor 2013-09-30

Extracorporeal Membrane Oxygenation (ECMO) is a procedure that uses a machine to take over the work of the lungs and sometimes the heart. The system provides heart-lung bypass support using a pump to circulate blood through an artificial lung back into the bloodstream, providing enough oxygen to the patient, whilst allowing time for the lungs and heart to rest or heal during or after serious illness. ECMO is often used for babies, but can also be used for children and adults (Medline Plus). The techniques for ECMO require professionals from multidisciplinary background to be involved in the procedure. This practical manual is a comprehensive guide to ECMO. Divided into eleven sections, the book begins with an introduction to the procedure and equipment. The following sections provide step by step discussion on initiation, maintenance of support and monitoring, and techniques of ECMO for different case scenarios. The final sections present multiple choice questions for self assessment and extensive appendices. Key points Comprehensive guide to Extracorporeal Membrane Oxygenation (ECMO) Highly relevant for intensivists, anaesthesiologists, surgeons, paediatricians and cardiologists Includes section of multiple choice questions for self assessment More than 186 full colour images and illustrations

Continuous Renal Replacement Therapy - John Kellum 2009-12-03

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.

Dialysis - Todd S. Ing 2012

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

Progress in Hemodialysis - Angelo Carpi 2011-11-07

Hemodialysis (HD) represents the first successful long-term substitutive therapy with an artificial organ for severe failure of a vital organ. Because HD was started many decades ago, a book on HD may not appear to be up-to-date. Indeed, HD covers many basic and clinical aspects and this book reflects the rapid expansion of new and controversial aspects either in the biotechnological or in the clinical field. This book revises new technologies and therapeutic options to improve dialysis treatment of uremic patients. This book consists of three parts: modeling, methods and technique, prognosis and complications.