

Extracorporeal Life Support Organization Elso Guidelines

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.

Effective management is crucial to the success of network organizations and can reduce the risk inherently associated with cooperative strategy. This contributed volume addresses the management of network organizations from both theoretical and practical perspectives, as well as an international standpoint in the form of selected cases from various Central European countries. The authors claim that without some type of network management, irrespective of the type of network, it is impossible to effectively compete with other companies and/or networks. As network organizations are representative of a broad range of possible network types, i.e. alliance networks, clusters, outsourcing, and virtual organizations, this book presents various perspectives on the management of network organizations. The book features articles from different scholars who have practical experience in network organizations, written in simple and easy-to-follow language, with a wide application of practical cases. Given its successful combination of theory and practice, together with the nature of the texts presented, the book offers a valuable resource for a broad readership, including scholars, managers and management science students.

This book presents a concise, evidence-based review of extracorporeal life support (ECLS) for adult diseases. It describes the use of ECLS with patients who are experiencing severe hypoxemic respiratory failure (ARDS and pneumonia), ventilatory failure (status asthmaticus and COPD), cardiogenic shock and circulatory or gas exchange failure following complications in cardiothoracic surgery, as well as its use as a bridge to lung transplant. Historically, clinicians have used ECLS as a last resort; however, this text details the technological improvements, evidence of improved outcomes and adverse consequences of alternative treatments that are causing this modality to be more commonly adopted. Topics include a description of the complex physiology

and technology underlying ECLS; the evidence base for its use in specific clinical conditions; vascular access techniques; daily management of the circuit and patient; guidance regarding the weaning and decannulation process and recommendations for crisis management and rehabilitation related to ECLS. Extracorporeal Life Support for Adults is ideal reading for practicing physicians, nurses, perfusion specialists, therapists and critical care trainees who are considering whether to refer their patients for ECLS or are already providing ECLS and are seeking a practical reference to best practices and updated information.

State of the Heart

Oxford Textbook of Critical Care

Principles of Adult Surgical Critical Care

Pediatric Respiratory Diseases

Atlas of Procedures in Neonatology

A Clinical Guide

This book provides a concise yet comprehensive overview of pediatric acute respiratory distress syndrome (PARDS). The text reviews the background behind the new PARDS definition; explores epidemiology, pathobiology, etiologies, and risk factors; reviews state-of-the-art treatment strategies; and discusses clinical outcomes. Written by experts in the field, Pediatric Acute Respiratory Distress Syndrome: A Clinical Guide is a valuable resource for clinicians and practitioners who specialize in pediatric critical care.

This book is a concise manual on debriefing techniques in a clinical educational context. It presents the most popular debriefing techniques that can be used as a reference manual by educators to help them achieve their intended debriefing objectives. The overarching objective of debriefing is to reflect and improve patient safety awareness at an individual and a team level. This book provides clear explanations of what constitutes effective debriefing, and presents the various approaches that can be used and how debriefing differs from feedback. It includes key research findings and aspects that directly or indirectly impact debriefing with different populations of learners such as students or qualified healthcare professionals at various levels of seniority. This book can also be used as a survival guide for both simulation educators and clinicians during debriefings. It includes sections explaining the different phases of a debriefing session, which help learners develop and consolidate their knowledge, and identify knowledge or performance gaps and near misses. The underlying philosophy of this book is to also promote profound respect for the trainee's experience and an offensive debriefing approach. Debriefing facilitators will appreciate the several key sentences that will help them lead and engage their learners during the various phases of expressing their emotions and analyzing their experience and actions.

Now in its sixth edition, Robert M. Bojar's Manual of Perioperative Care in Adult Cardiac Surgery remains the go-to practical guide for all those involved in the care of the cardiac surgery patient. Written in outline format, it provides a comprehensive, detailed, and clearly explained approach to surgical disease and perioperative management that is of value to practicing cardiac surgeons as well as to cardiologists, residents, fellows, and practice providers, critical care and floor nurses, perfusionists, and medical students. Extensively rewritten with updated references to the latest concepts, guidelines, protocols, and medications used in cardiac surgical practice, this classic text retains the pragmatic features that have made it the gold standard reference that clinicians have used worldwide for the past 30 years. Highlights include: Full coverage of cardiac surgery

including pathophysiology, indications for surgery per guidelines, and figures of operative procedures and diagnostic techniques, with a examples Chronologic evaluation of patients from preoperative assessment to intraoperative considerations to postoperative care for e Extensive chapters discussing organ system management in the ICU, followed by a discussion of later postoperative management and p Incorporation of newer techniques (TAVR, Mitraclip, etc.) within the chronologic format Easy access to information using an outline for the free edges to identify chapters, synopsis pages at the beginning of each chapter, and a comprehensive index to provide easy refere Updated references throughout that are available from on-line resources 21 appendices summarizing order sheets, protocols, commonly body mass index, and other important information Praise for the fifth edition: "Surgeons are frequently asked to recommend a text that the care of their patients. This comprehensive text is the standard by which any other text should be judged." —Critical Care Medicine and a must have for anyone involved in cardiac surgery." —Perfusion.com

Core Topics in Thoracic Anesthesia

Exploring the History, Science, and Future of Cardiac Disease

Kendig and Chernick's Disorders of the Respiratory Tract in Children E-Book

Theoretical Problems and the Dilemmas in Practice

Advances in Therapy

ECPR and Resuscitative ECMO

The EQ-5D instrument, as a standardized, cross-culturally validated measure of self-assessed health has a hugely important role in understanding population health within and across countries. Over the past two decades a wealth of international population health survey data have been accumulated by the EuroQol Group from research conducted in many countries across four continents. One of the success factors of the EQ-5D instruments has been the easy availability of national or international sets of EQ-5D data, as well as clear explanations and guidance for users. There is an unmet need to produce a comprehensive book that captures up-to-date and expanded information of EQ-5D self-reported health and index values. EQ-5D population norms and cross-country analyses are provided from representative national surveys of 20 countries and additional regional surveys. This book will be a must for those who believe that how people report and value health is very important.

Acclaimed for its unsurpassed readability and manageable scope, Ashcraft's Pediatric Surgery presents authoritative, practical guidance on treating the entire range of general surgical and urological problems in infants, children, and adolescents. State-of-the-art, expert coverage equips you to implement all the latest approaches and achieve optimal outcomes for all of your patients. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Make the most effective use of today's best open and minimally invasive techniques, including single-site umbilical laparoscopic surgery, with guidance from internationally recognized experts in the field. Focus on evidence-based treatments and outcomes to apply today's best practices. Stay current with timely topics thanks to brand-new chapters on Choledochal Cyst and Gallbladder Disease, Tissue Engineering, and Ethics in Pediatric Surgery, plus comprehensive updates throughout. Hone and expand your surgical skills by watching videos of minimally invasive procedures for recto urethral fistula, biliary atresia, laparoscopic splenectomy, uterine horn, and more. Grasp the visual nuances of surgery from over 1,000 images depicting today's best surgical practices.

Kendig, Chernick's Disorders of the Respiratory Tract in Children is the definitive medical reference book to help you confront critical challenges using the latest knowledge and techniques. You'll get the state-of-the-art answers you need to offer the best care to young patients. Tackle the toughest challenges and improve patient outcomes with coverage of all the common and rare respiratory problems found in newborns and children worldwide. Get a solid foundation of knowledge to better understand and treat your patients through coverage of the latest basic science and its relevance to clinical problems. Get comprehensive, authoritative coverage on today's hot topics, such as interstitial lung disease, respiratory disorders in the newborn, congenital lung disease, swine flu, genetic testing for disease and the human genome, inflammatory cytokines in the lung, new radiologic techniques, diagnostic imaging of the respiratory tract, and pulmonary function tests. Learn from the experts with contributions from 100 world authorities in the fields of pediatrics, pulmonology, neurology, microbiology, cardiology, physiology, diagnostic imaging, anesthesiology, otolaryngology, allergy, and surgery.

The ELSO Red Book 6th Edition

Pocket Book for Simulation Debriefing in Healthcare

Manual of Perioperative Care in Adult Cardiac Surgery

Pediatric Critical Care

Management of Network Organizations

Nursing Care and ECMO

Extracorporeal membrane oxygenation (ECMO) is developing rapidly, and is now part of the toolkit for the management of all patients with severe respiratory or cardiac failure. Clinicians of all disciplines are in need of a simple manual, easy and fun to read, that will take them through the management of these patients, explaining the principles of safe and successful practice. Part of the Core Critical Care series, this book is an easy-to-read guide for the aspiring ECMO clinician. Doctors, nurses, physiotherapists, dieticians, pharmacists and all other key members of the team will learn the basics required to better understand the technology and care of the patient. The experienced clinician will enjoy reading through the chapters, which present structured thoughts and knowledge acquired through clinical experience.

Extracorporeal membrane oxygenation (ECMO), despite a long and troubled history, is very rapidly evolving into a therapy that can be safely and effectively applied across the world in patients experiencing acute cardiac and/or pulmonary failure. As experiences grow, there is a better understanding of nuances of the importance of teamwork, therapy guidelines and protocols, patient selection, and understanding the functional aspects of pump-circuit technology as it interfaces with human biology. The challenges in managing these very sick and complex patients cannot be understated. The goal of this text is to provide a framework for the development and successful growth of a program. Authors from Centers of Excellence Worldwide have shared their experiences in the full spectrum in dealing with this evolving field.

ECMO Extracorporeal Cardiopulmonary Support in Critical Care 5th Edition The Red Book ECMO Specialist Training Manual Fourth Edition Extracorporeal Life Support for Adults Humana Press

Vascular Anesthesia

ECMO

Management of Acute Pulmonary Embolism

The Red Book

TNM Classification of Malignant Tumours

Cardiac Surgery

In State of the Heart, Dr. Haider Warraich takes readers inside the ER, inside patients' rooms, and inside the history and science of cardiac disease. State of the Heart traces the entire arc of the heart, from the very first time it was depicted on stone tablets, to a future in which it may very well become redundant. While heart disease has been around for a while, the type of heart disease people have, why they have it, and how it's treated is changing. Yet, the golden age of heart science is only just beginning. And with treatments of heart disease altering the very definitions of human life and death, there is no better time to look at the present and future of heart disease, the doctors and nurses who treat it, the patients and caregivers who live with it, and the stories they hold close to their chests. More people die of heart disease than any other disease in the world and when any form of heart disease progresses, it can result in the development of heart failure. Heart failure affects millions and can affect anyone at anytime, a child recovering from a viral infection, a woman who has just given birth or a cancer patient receiving chemotherapy. Yet new technology to treat heart failure is fundamentally changing just what it means to be human. Mechanical pumps can be surgically sown into patients' hearts and when patients with these pumps get really sick, sometimes they don't need a doctor or a surgeon—they need a mechanic. In State of the Heart, the journey to rid the world of heart disease is shown to be reflective of the journey of medical science at large. We are learning not only that women have as much heart disease as men, but that the type of heart disease women experience is diametrically different from that in men. We are learning that heart disease and cancer may have more in common than we could have imagined. And we are learning how human evolution itself may have led to the epidemic of heart disease. In understanding how our knowledge of the heart evolved, State of the Heart traces the twisting and turning road that science has taken—filled with potholes and blind turns—all the way back to its very origin.

An accessible source of information about the current spectrum of anesthesia and critical care management of patients undergoing thoracic surgery.

Extracorporeal membrane oxygenation (ECMO) has been in clinical use for some 40 years, but it is only in the past decade

that its application in the treatment of life-threatening circulatory and respiratory failure has truly flourished. This book presents a comprehensive overview of both pathophysiological and practical aspects of circulatory and respiratory extracorporeal support. The basics of ECMO, including its history, the “ECMO team”, cannulation, materials, and blood-surface interactions, are first discussed. The various indications for and particular characteristics of circulatory and respiratory extracorporeal life support are then described in detail in the main part of the book. Patient care during ECMO and monitoring of the ECMO patient are also carefully covered, with explanation of the management of technical and clinical complications and transport-related problems. Further topics include long-term therapy options beyond ECMO, such as ventricular assist devices and transplants, outcome, the new frontiers of ECMO for organ procurement and future challenges. The authors are well-known experts in the field whose authoritative contributions and attention to practical aspects will be invaluable for novices and experienced practitioners alike.

A Complete Guide

Advances in Extracorporeal Membrane Oxygenation

Mechanical Circulatory and Respiratory Support

Ecmo Specialist Training Manual

ECMO Extracorporeal Cardiopulmonary Support in Critical Care 5th Edition

A Companion to Kaplan's Cardiac Anesthesia

This text provides a high level, comprehensive but concise review of adult surgical critical care. It can be used to review complex topics of critical illness in surgical patients, as a reference tool, or as preparation for a board examination. It is focused on the surgical patient including high yield facts, evidence-based guidelines, and critical care principles. To remain succinct, it concentrates on surgically relevant care. Further, the text is written with an expectation that reader already possesses a basic understanding of critical care pathophysiology and clinical practices such as those acquired during residency. Organized by organ system, each section contains several chapters addressing relevant disorders, monitoring and treatment modalities, and outcomes. Principles of Adult Surgical Critical Care will be of use to intensivists caring for surgical patients regardless of parent training domain. Additionally, this work is intended to be used by surgical critical care fellowship trainees as well as other advanced practice providers such as nurse practitioners and physician assistants who provide care in ICUs and emergency departments alike.

Now in paperback, the second edition of the Oxford Textbook of Critical Care addresses all aspects of adult intensive care management. Taking a unique problem-orientated approach, this is a key resource for clinical

issues in the intensive care unit.

TNM Classification of Malignant Tumours, 7th Edition provides the latest, internationally agreed-upon standards to describe and categorize cancer stages and progression. Published in affiliation with the International Union Against Cancer (UICC), this authoritative guide contains important updated organ-specific classifications that oncologists and other professionals who manage patients with cancer need to accurately classify tumours for staging, prognosis and treatment. The major alterations addressed in the 7th Edition concern carcinomas of the oesophagus and the gastroesophageal junction, stomach, lung, appendix, biliary tract, skin, and prostate. In addition, there are several entirely new classifications: gastrointestinal carcinoids (neuroendocrine tumours) gastrointestinal stromal tumour upper aerodigestive mucosal melanoma Merkel cell carcinoma uterine sarcomas intrahepatic cholangiocarcinoma adrenal cortical carcinoma. A new approach has also been adopted to separate anatomical stage groupings from prognostic groupings in which other prognostic factors are added to T, N, and M categories. These new prognostic groupings, as well as the traditional anatomical groupings, are presented for oesophageal and prostate carcinomas. Visit www.wileyanduicc.com for more information about the International Journal of Cancer and our other UICC book titles

**A Detailed Look at Emergent Extracorporeal Life Support
Extracorporeal Membrane Oxygenation
Current Controversies**

**An Introduction to Theory, Research, & Clinical Practice
Extracorporeal Life Support**

"Practicing critical care entails understanding human physiology, pharmacokinetics and molecular pathways in concert with adherence to evidence based literature. Some may say combining all of these entities into practice creates the "art" of critical care medicine. One strategy to gain proficiency in the practice of critical care medicine is to simulate what you would do in specific problem-based scenarios. That is the aim of this textbook aptly titled "What Do I Do Now?" This text focuses on Cardiothoracic Critical Care and will cover guidelines for evidence-based practice, respiratory and metabolic physiology, common hemodynamic perturbations, ventricular failure and mechanical circulatory support devices. All clinicians who care for cardiothoracic patients who are critically ill can find pearls of practice wisdom complemented by literature citations within this text. So go ahead, place yourself at the foot of the bed and try to think through, "What Would I Do Now" when presented with each patient within these pages of your handheld cardiothoracic intensive care unit"--

Indice de Capítulos; Capítulo 1: Historia y desarrollo soporte extracorpóreo; Capítulo 2: Fisiología ECLS; Capítulo 3: Insuficiencia Cardíaca: Principios y fisiología; Capítulo 4: Insuficiencia respiratoria hipoxica aguda en niños; Capítulo 5: Interacción entre la sangre y superficie del biomaterial durante ECLS; Capítulo 6: Registro ELSO; Capítulo 7: Prefacio de las secciones II a V; Capítulo 8: El circuito; Capítulo 9: Accesos vasculares para soporte extracorpóreo; Capítulo 10: Manejo del flujo sanguíneo e intercambio gaseoso durante ECLS. Capítulo 11: Anticoagulación y sangrado durante ECLSCapítulo 12: Analgesia, sedación, boqueo neuromuscular y control de temperatura en ECLS; Capítulo 13: Función renal y terapias de soporte renal durante ECMO; Capítulo 14: Infecciones y ECMO; Capítulo 15: Procedimientos en ECMO; Capítulo 16: Destete, pruebas de destete y futilidad; Capítulo 17: ECMO respiratorio neonatal; Capítulo 18: ECMO en hernia diafragmática congénita; Capítulo 19: ECMO en la insuficiencia respiratoria pediátrica; Capítulo 20: ECLS cardíaco pediátrico; Capítulo 21: ECMO respiratorio Adulto. Capítulo 22: Soporte cardíaco adultoCapítulo 23: ECPR: Resucitación cardiopulmonar extracorpórea; Capítulo 24: Asistencia ventricular en niños; Capítulo 25: Plasmaféresis; Capítulo 26: Pulmón artificial; Capítulo 27: Asistencia con soporte extracorpóreo en la donación de órganos; Capítulo 28: ECMO y sepsis; Capítulo 29: ECLS pre y post trasplante de pulmón; Capítulo 30: Cateterismo cardíaco para pacientes en ECMO; Capítulo 31: El futuro del ECLS; Capítulo 32: Regionalización y Triage; Capítulo 33: Transporte de pacientes en ECMO: del concepto a la implementación. Capítulo 34: Temas administrativos, de entrenamiento y calidad en ECMOCapítulo 35: Finanzas en ECLS; Capítulo 36: Aspectos regulatorios y Legales de ECLS; Capítulo 37: Ética en ECMO y siglo XXI.

Extracorporeal membrane oxygenation is an effective tool for managing patients with severe acute cardiogenic shock and/or respiratory failure. With emphasis on teamwork and adherence to guidelines, protocols, and objective tools to assist in patient selection, management, and weaning, outcomes have improved. Nevertheless, every aspect of supporting patients who require extracorporeal support remains a challenge - with many unanswered questions. The goal of this text, as a supplement to the previous editions on this rapidly evolving topic, is to provide the reader with a more in-depth review of some of the ongoing issues in this field. Topics ranging from administrative aspects to developing a program, nursing issues, ethical concerns, and a variety of clinical topics are discussed at length.

Volume 3

Self-Reported Population Health: An International Perspective based on EQ-5D

Pediatric Pulmonary Disease

Acute Respiratory Failure

A Comprehensive Textbook

Ashcraft's Pediatric Surgery E-Book

Mechanical Circulatory and Respiratory Support is a comprehensive overview of the past, present and future development of mechanical circulatory and respiratory support devices. Content from over 60 internationally-renowned experts focusses on the entire life-cycle of mechanical circulatory and respiratory support – from the descent into heart and lung failure, alternative medical management, device options, device design, implantation techniques, complications and medical management of the supported patient, patient-device interactions, cost effectiveness, route to market and a view to the future. This book is written as a useful resource for biomedical engineers and clinicians who are designing new mechanical circulatory or respiratory support devices, while also providing a comprehensive guide of the entire field for those who are already familiar with some areas and want to learn more. Reviews of the most cutting-edge research are provided throughout each chapter, along with guides on how to design new devices and which areas require specific focus for future research and development. Covers a variety of disciplines, from anatomy of organs and evolution of cardiovascular devices, to their clinical applications and the manufacturing and marketing of devices Provides engineering and clinical perspectives to assist readers in the design of a market appropriate device Discusses history, design, usage, and development of mechanical circulatory and respiratory support systems

This comprehensive text delivers cutting-edge scientific knowledge and expert clinical guidance on anesthesia for the vascular surgical patient or the patient with cardiac disease undergoing major noncardiac surgery. It covers cardiovascular anatomy, physiology, and pharmacology; preoperative assessment and management, specific perioperative considerations, and postoperative management. This 2nd Edition features eight completely rewritten chapters and six new chapters. Extensive updates throughout reflect all the new procedures, drugs, techniques, and monitoring modalities that have emerged over the last decade. Delivers cutting-edge scientific knowledge that serves as a basis for clinical practice. Provides comprehensive coverage of anesthesia, including cardiovascular anatomy, physiology, and pharmacology preoperative assessment and management specific perioperative considerations and postoperative management. Integrates recent developments from the fields of anesthesiology, cardiology, cardiovascular pharmacology, vascular surgery, and critical care medicine to present a complete clinical picture Offers fresh perspectives from many new contributors who are leaders in their fields. Explores all the new procedures, drugs, techniques, and monitoring modalities that have emerged over the last decade. Devotes more coverage to regional anesthesia or combined regional and general anesthesia for modification of stress responses, improved pain control, better wound healing, and control of inflammatory/immunomodulatory changes associated with surgery. Places increased emphasis on the physiology, diseases, and surgery of the peripheral vasculature throughout, including a new chapter on The Peripheral

Circulation in Patients with Vascular Disease (Chapter 1). Includes a new chapter on Imaging of the Vasculature(Chapter 2), that is completely up to date and easy to read. Covers anesthesia and perioperative care for all of the latest procedures, including new information on minimally invasive techniques and new chapters on Interventional Vascular Radiologic Procedures (Chapter 4) and Choice of Invasive vs. Noninvasive Surgery (Chapter 7). Features expanded material on postoperative care, especially on new techniques for pain management, and includes new chapters on Respiratory Complications and Management (Chapter 18) and Ethical Decisions/End of Life Care in Patients with Vascular Disease (Chapter 20). With 20 additional contributors. This textbook provides a succinct overview of cardiac surgery, with key concepts being emphasized throughout. An abundance of illustrations, intra-operative photographs, tables as well as information boxes, aids the reader to visualise, grasp and retain difficult concepts. The inclusion of evidence-based approaches to the management of a range of cardiac surgical conditions equips the reader with an understanding of how to overcome a variety of potentially tough clinical challenges. Concise Cardiac Surgery: A Complete Guide comprehensively covers a range of techniques used in cardiac surgery. It is therefore, an ideal resource for the trainee and practising cardiac surgeon seeking a practically focused text detailing how to apply the latest techniques and evidence-based approaches in their day-to-day practice.

Pediatric Acute Respiratory Distress Syndrome

Cardiothoracic Critical Care

Advances in Extra-corporeal Perfusion Therapies

Child Neuropsychology

Extracorporeal Cardiopulmonary Support in Critical Care

Ecmo: Extracorporeal Cardiopulmonary Support in Critical Care, Red Book

This is a comprehensive and authoritative textbook on pediatric pulmonology. Edited by Pablo Bertrand and Ignacio Sánchez, renowned academics and pediatricians from the Pontifical Catholic University of Chile, it encompasses five sections and 74 chapters, presenting and discussing the most important topics related to pediatric respiratory diseases. Written and presented in a simple and didactic format, it intends to ease learning and settlement of doubts in pediatric respiratory diseases. The reader is naturally introduced into the physiology, diagnosis, syndromes, diseases and the treatment associated with the respiratory pathologies affecting children. The chapters include algorithms for the treatment of various syndromes and updated treatment proposals grounded in evidence-based medicine for more than 50 pulmonary diseases. Pediatric Respiratory Diseases - A Comprehensive Textbook is an essential reference for the proper clinical approach to respiratory

diseases in children. It is intended for all interns, residents and fellows with interest in pediatric pulmonary medicine, as well as practicing physicians, general practitioners, pediatricians and pulmonologists who face pediatric respiratory disorders in daily clinical practice.

Provides guidance on the anesthetic diagnosis and management of the full range of cardiac lesions, helping minimize adverse outcomes and reduce complications for patients with common, complex, or uncommon cardiac conditions. Includes complete coverage of echocardiography and current monitoring techniques needed for thorough perioperative assessment - all from the anesthesiologist's perspective. Discusses safe and effective perioperative anesthetic management of patients presenting with advanced levels of cardiac care such as drug-eluting stents, multiple antiplatelet drugs, ventricular assist devices, multiple drugs for end-stage heart failure, and implanted electrical devices that produce cardiac resynchronization therapy, as well as patients with complicated obstetric problems or other significant cardiovascular issues. Features a concise, easy-to-navigate format and Key Points boxes in each chapter that help you find answers quickly. Provides guidance on the anesthetic diagnosis and management of the full range of cardiac lesions, helping minimize adverse outcomes and reduce complications for patients with common, complex, or uncommon cardiac conditions. Includes complete coverage of echocardiography and current monitoring techniques needed for thorough perioperative assessment - all from the anesthesiologist's perspective. Discusses safe and effective perioperative anesthetic management of patients presenting with advanced levels of cardiac care such as drug-eluting stents, multiple antiplatelet drugs, ventricular assist devices, multiple drugs for end-stage heart failure, and implanted electrical devices that produce cardiac resynchronization therapy, as well as patients with complicated obstetric problems or other significant cardiovascular issues. Features a concise, easy-to-navigate format and Key Points boxes in each chapter that help you find answers quickly.

Extracorporeal membrane oxygenation (ECMO) has evolved into an exciting and valuable tool to assist in the management of patients experiencing cardiogenic shock, severe acute respiratory failure, or often a combination of both. While outcomes remain less than ideal, they continue to improve with team experience, better patient selection, and a growing understanding of the nuances of managing patients who require mechanical circulatory support. Patients requiring ECMO are often extremely sick and have complex problems - initiating therapy before the development of end-organ damage is critical. Without doubt, teamwork, guidelines, and protocols are cornerstone concepts for clinical and program success - all topics that are emphasized in this text. The goals of this text are to further

outline topics that help address some of the key challenges providers face when considering and applying extracorporeal support therapies to the evolving spectrum of acutely ill patients.

ECMO-Extracorporeal Life Support in Adults

ECMO Specialist Training Manual Fourth Edition

ECMO in the Adult Patient

Extracorporeal Life Support for Adults

Essentials of Cardiac Anesthesia for Noncardiac Surgery E-Book

Advances in Extracorporeal Life Support in Critically Ill Patients

This practical volume highlights traditional, novel, and evolving aspects of the diagnosis and treatment of pulmonary embolism (PE). The contributors comprise an international team of experts. Important aspects of diagnosis, risk stratification, and differential treatment of patients with PE are presented in a concise, yet comprehensive manner. Emphasis is placed on specific issues related to PE, including pregnancy, cancer, thrombophilia, and air travel.

This book explores the unique aspects involved in the management of ECMO patients such as physiopathology and indications, setting up the device, monitoring ECMO and the patient, troubleshooting, ethical aspects and rehabilitation. For the past eight years, management of acute heart failure and Acute Respiratory Distress Syndrome (ARDS) patients has been improved by the development of short-term assistance devices, with ECMO as a first line treatment. This highly informative book provides essential insights for ICU nurses at ECMO centers around the world, who face the substantial challenges involved in the management of ECMO patients. Above all, it meets their training needs with regard to bedside monitoring for these patients, which has become a major issue. The editors and most of the contributors serve at La Pitié-Salpêtrière ICU, France, which, in terms of the number of admissions and major publications produced, is one of the world's leading authorities on ECMO.

The Atlas of Procedures in Neonatology, Fifth Edition, provides detailed, step-by-step instructions on procedures performed in the neonatal intensive care nursery. In an easy-to-follow outline format, with more than 450 drawings and clinical photographs, the book presents clear, current information on indications, preparation, technique, precautions, and how to avoid potential complications. New for this edition: New chapters covering: Brain and Whole Body Cooling; Bubble CPAP; Educational Principles of Simulation Based Procedure Training to help you stay updated on the latest technology and information Access to free online companion website that includes fully searchable text, image bank and videos so you can access the content anytime, anywhere Video collection has been expanded to include: lumbar puncture, intraosseous infusion, bubble CPAP and pericardiocentesis for both commonly performed procedures and vital emergency procedures