

## A Esicm Multidisciplinary Distance Learning Programme Or

A complete, hands-on guide to successful image acquisition and interpretation at the bedside. Written by top practitioners in the field, this comprehensive book is filled with practical guidance that helps you master clinical ultrasonography in a critical care environment. Here, you'll learn exactly how to utilize diagnostic ultrasound as part of the physical exam, as the book examines current evidence supporting its use in the critically ill adult and child. Organized by body system, *Critical Care Ultrasonography* features self-contained chapters that can be used as individual reference guides for a range of interventions, from transthoracic echocardiography to echocardiographic evaluation of cardiac trauma. Through this in-depth coverage, you'll get a sense of how this essential technology supports the cross-disciplinary nature of critical care. The book's authoritative content is reinforced throughout by a full-color presentation and hundreds of concept-clarifying illustrations, figures, and images. Features Comprehensive coverage of the fundamentals of ultrasound use in critical care Guidance on ultrasound procedures enables practitioners to use ultrasound for vascular and axial procedures, improving safety and ensuring that nationally recognized compliance standards are upheld Cardiac ultrasound chapters help you assess and monitor the patient's cardiopulmonary status non-invasively Chapter on Neck and Upper Respiratory Ultrasound offers an overview of little-known techniques that have not been comprehensively described in any other source Full-color presentation, with 495 illustrations that emphasize the basic skills required to visualize anatomic structures and interpret findings

This book examines in detail the topic of sepsis, with a focus on intra-abdominal sepsis. Particular attention is devoted to source control in the management of the infection, antimicrobial therapy and sepsis support, which represent the cornerstones of treating patients with this problem. The importance of a multidisciplinary approach is highlighted not only by the instructive and informative sections on the acute manifestations of appendicitis, cholecystitis, and cholangitis, perforations and diverticulitis, *Clostridium difficile* infection and the role of candida in abdominal sepsis, but also by an extensive discussion of issues including antimicrobial resistance, damage control surgery, principles of antimicrobial therapy, hemodynamic support, adjunctive therapies, and thromboprophylaxis. Abdominal sepsis is the host's systemic inflammatory response to intra-abdominal infections. It is associated with significant morbidity and mortality rates, and represents the second most common cause of sepsis-related mortality at intensive care units. Gathering contributions by authoritative experts from all around the world, this book will allow acute care surgeons, abdominal surgeons, intensive care clinicians, and students to broaden their understanding of intra-abdominal sepsis in daily clinical practice.

"There is a significant shortage of critical care physicians across the US. For this reason, advanced practice providers (including advanced practice registered nurses and physician assistants) are being utilized more and more to bridge this clinical resource gap. However, APPs are trained as generalists and have limited specialization and exposure to the unique needs of perioperative critically-ill patients. *Concepts in Surgical Critical Care* is the only single resource designed specifically for APPs caring for this population. Featuring a user-friendly organization designed to quickly find what you're looking for, *Concepts in Surgical Critical Care* is the ultimate resource regarding the care of critically-ill perioperative patients. It starts with foundational critical care topics across all surgical specialties followed by the specifics within 12 - including the neurologic system, the cardiovascular system, the respiratory system, the vascular system, etc. The use of checklists, bold and italicized text, key concepts, clinical pearls, focus questions, case studies, simulations, illustrations, tables and figures to display

complex topics, practice questions, chapter summaries, and suggested readings for further study aid in mastery of the subject matter"--

With each edition, ACCCN's Critical Care Nursing has built on its highly respected reputation. Its contributors aim to encourage and challenge practising critical care nurses and students to develop world-class critical care nursing skills in order to ensure delivery of the highest quality care. Endorsed by the Australian College of Critical Care Nurses (ACCCN), this 3rd edition presents the expertise of foremost critical care leaders and features the most recent evidence-based research and up-to-date advances in clinical practice, technology, procedures and standards. Expanded to reflect the universal core elements of critical care nursing practice authors, Aitken, Marshall and Chaboyer, have retained the specific information that captures the unique elements of contemporary critical care nursing in Australia, New Zealand and other similar practice environments. Structured in three sections, ACCCN's Critical Care Nursing, 3e addresses all aspects of critical care nursing, including patient care and organisational issues, while highlighting some of the unique and complex aspects of specialty critical care nursing practice, such as paediatric considerations, trauma management and organ donation.

Presented in three sections: - Scope of Critical Care - Principles and Practice of Critical Care - Speciality Practice Focus on concepts that underpin practice - essential physical, psychological, social and cultural care New case studies elaborate on relevant care issues Practice tips highlight areas of care particularly relevant to daily clinical practice Learning activities support knowledge, reflective learning and understanding Additional case studies with answers available on evolve NEW chapter on postanaesthesia recovery Revised coverage on metabolic and nutritional considerations for the critically ill patient Alignment with the NEW ACCCN Standards for Practice

Practical clinical handbook reviewing all aspects of the diagnosis and management of intra-abdominal hypertension; essential reading for all critical care staff.

This book identifies the various ethical challenges that arise in pediatric hematology/oncology and provides the necessary tools to overcome these challenges. Aiming to expand upon and strengthen providers' knowledge and experience in pediatric health care ethical issues, the text positions providers to be beneficial resources to faculty, staff, patients, and families within their institution. It presents a multidisciplinary approach to sound ethical practices that is necessary to effectively care for these patients and their families. The book reviews the principles of ethical decision-making, the unique difficulties in using children as research subjects, common ethical conundrums involved in providing end-of-life care, and general moralities of professional practice. Written by experts in their fields, *Ethical Issues in Pediatric Hematology/Oncology* is an innovative and valuable resource for clinicians, practitioners, and trainees who work in the field of pediatric hematology/oncology.

Ideal for neurosurgeons, neurologists, neuroanesthesiologists, and intensivists, *Monitoring in Neurocritical Care* helps you use the latest technology to more successfully detect deteriorations in neurological status in the ICU. This neurosurgery reference offers in-depth coverage of state-of-the-art management strategies and techniques so you can effectively monitor your patients and ensure the best outcomes. Understand the scientific basis and rationale of particular monitoring techniques and how they can be used to assess neuro-ICU patients. Make optimal use of the most advanced technology, including transcranial Doppler sonography, transcranial color-coded sonography, measurements of jugular venous oxygen saturation, near-infrared spectroscopy, brain electrical monitoring techniques, and intracerebral microdialysis and techniques based on imaging. Apply multimodal monitoring for a more accurate view of brain function, and utilize the latest computer systems to integrate data at the bedside. Access practical information on basic principles, such as quality assurance, ethics, and ICU design. Seamlessly search the full text of *Monitoring in Neurocritical Care* online at [www.expertconsult.com](http://www.expertconsult.com).

This book is the first available practical manual on the open abdomen. Practicing physicians, surgeons, anesthesiologists, nurses, and physiotherapists will find in it a ready source of information on all aspects of open abdomen management in a wide variety of settings. The coverage includes, for example, the open abdomen in trauma, intra-abdominal sepsis, and acute pancreatitis, step-by-step descriptions of different techniques with the aid of high-quality color figures, guidance on potential complications and their management, and features of management in different age groups. The book contents illustrate the most recent innovations and drawing upon a thorough and up-to-date literature review. Useful tips and tricks are highlighted, and the book is designed to support in daily decision making. The authors include worldwide opinion leaders in the field, guaranteeing the high scientific value of the content. The authoritative guide for dietetic students and both new and experienced dietitians – endorsed by the British Dietetic Association Now in its sixth edition, the bestselling Manual of Dietetic Practice has been thoroughly revised and updated to include the most recent developments and research on the topic. Published on behalf of the British Dietetic Association, this comprehensive resource covers the entire dietetics curriculum, and is an ideal reference text for healthcare professionals to develop their expertise and specialist skills in the realm of dietetic practice. This important guide includes: The latest developments and scientific evidence in the field New data on nutrition and health surveillance programs Revised and updated evidence-based guidelines for dietetic practice An exploration of how Public Health England has influenced the field Practical advice on public health interventions and monitoring A companion website with helpful materials to support and develop learning Written for dietitians, clinical nutritionists, and other healthcare professionals by leading dietitians and other professionals, the Manual of Dietetic Practice continues to provide a crucial resource for experts and novices alike.

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.

Ideal for neurosurgeons, neurologists, neuroanesthesiologists, and intensivists, Monitoring in Neurocritical Care helps you use the latest technology to more successfully detect deteriorations in neurological status in the ICU. This neurosurgery reference offers in-depth coverage of state-of-the-art management strategies and techniques so you can effectively monitor your patients and ensure the best outcomes. Understand the scientific basis and rationale of particular monitoring techniques and how they can be used to assess neuro-ICU patients. Make optimal use of the most advanced technology, including transcranial Doppler sonography, transcranial color-coded sonography, measurements of jugular venous oxygen saturation, near-infrared spectroscopy,

brain electrical monitoring techniques, and intracerebral microdialysis and techniques based on imaging. Apply multimodal monitoring for a more accurate view of brain function, and utilize the latest computer systems to integrate data at the bedside. Access practical information on basic principles, such as quality assurance, ethics, and ICU design.

This book, part of the European Society of Intensive Care Medicine textbook series, provides detailed up-to-date information on the physical, cognitive, and psychological impairments that are frequently present following a stay in an intensive care unit and examines in depth the available preventive and therapeutic strategies, including adapted rehabilitation programs. Beyond acquainting readers with the multiple facets of post-intensive care syndrome (PICS), the book aims to promote the effective follow-up of patients, thereby enhancing their ability to work and their functional autonomy, and to identify risk factors for the development of PICS as a stimulus to beneficial organizational changes in intensive care departments. The background to the book is the realization by healthcare providers that the quality of life of patients who have required a stay in an intensive care unit can be severely impaired or even become unacceptable. All too often, the diverse sequelae are overlooked by specialists of other disciplines. Moreover, families and caregivers are also at high risk of post-traumatic stress disorder and depression. The European Society of Intensive Care Medicine has developed the Lessons from the ICU series with the vision of providing focused and state-of-the-art overviews of central topics in Intensive Care and optimal resources for clinicians working in Intensive Care. This book, written by renowned experts in the field, will facilitate the transmission of key knowledge with significant clinical and financial benefits.

Heart failure is a serious condition caused by the heart failing to pump enough blood around the body at the right pressure. It usually occurs because the heart muscle has become too weak or stiff to work properly, most commonly caused by heart attack, high blood pressure or cardiomyopathy (heart disease). This textbook is a comprehensive guide to the latest advances in the diagnosis and management of heart failure. Comprising nearly 1000 pages, the book features 15 sections, beginning with discussion on clinical issues of heart failure, followed by imaging techniques. Each of the following sections covers a different disorder or disease that subsequently may lead to heart failure. Topics include coronary artery disease, stroke, arrhythmia, hypertension, nutritional aspects, cardio-oncology, and much more. The book concludes with rehabilitation, legal aspects, and future directions. Authored by internationally recognised experts in the field, the text is further enhanced by clinical photographs, diagrams and tables. Key points Comprehensive guide to latest advances in diagnosis and management of heart failure Extensive text comprising nearly 1000 pages covering numerous associated disorders and diseases Internationally recognised editor and author team Highly illustrated with clinical photographs, diagrams and tables

The first edition of this publication was aimed at defining the current concepts of



trauma induced coagulopathy by critically analyzing the most up-to-date studies from a clinical and basic science perspective. It served as a reference source for any clinician interested in reviewing the pathophysiology, diagnosis, and management of the coagulopathic trauma patient, and the data that supports it. By meticulously describing the methodology of most traditional as well as state of the art coagulation assays the reader is provided with a full understanding of the tests that are used to study trauma induced coagulopathy. With the growing interest in understanding and managing coagulation in trauma, this second edition has been expanded to 46 chapters from its original 35 to incorporate the massive global efforts in understanding, diagnosing, and treating trauma induced coagulopathy. The evolving use of blood products as well as recently introduced hemostatic medications is reviewed in detail. The text provides therapeutic strategies to treat specific coagulation abnormalities following severe injury, which goes beyond the first edition that largely was based on describing the mechanisms causing coagulation abnormalities. Trauma Induced Coagulopathy 2nd Edition is a valuable reference to clinicians that are faced with specific clinical challenges when managing coagulopathy.

Now completely revised to bring you up to date with the latest advances in the field, *Critical Care Medicine: Principles of Diagnosis and Management in the Adult, 5th Edition*, delivers expert, practical guidance on virtually any clinical scenario you may encounter in the ICU. Designed for intensivists, critical care and pulmonology residents, fellows, practicing physicians, and nurse practitioners, this highly regarded text is clinically focused and easy to reference. Led by Drs. Joseph Parrillo and Phillip Dellinger, the 5th Edition introduces numerous new authors who lend a fresh perspective and contribute their expertise to that of hundreds of top authorities in the field. Includes new chapters on current applications of bedside ultrasound in the ICU, both diagnostic and procedural; mechanical assist devices; and extra-corporeal membrane oxygenation (ECMO). Contains new administrative chapters that provide important information on performance improvement and quality, length of stay, operations, working with the Joint Commission, and more. Features new images that provide visual guidance and clarify complex topics. Keeps you up to date with expanded chapters on echocardiography in the ICU and valvular heart disease, including TAVR. Includes separate chapters on mechanical ventilation of obstructive airway disease and acute respiratory distress syndrome (ARDS) – including the many recent changes in approach to positive end expiratory pressure setting in ARDS. Covers key topics such as patient-ventilator synchrony and non-invasive ventilation for treating chronic obstructive pulmonary disease patients with acute respiratory failure. Reflects the recent literature and guidance on amount of fluids, type of fluid, vasopressor selection, mean arterial pressure target, and decision on steroid use in septic shock. Provides questions and answers in every chapter, perfect for self-assessment and review.

This book is a comprehensive guide to critical care medicine for postgraduate

medical students. Presented in a case-based, question and answer format, the text begins with guidance on patient examination in the intensive care unit (ICU). Each of the following chapters covers a different disorder, from acute severe asthma, pulmonary embolism and septic shock, to traumatic brain injury, acute liver failure and much more. The book concludes with cases examining out-of-hospital cardiac arrest, brain death and organ donation, as well as end-of-life care in the ICU. A large selection of Objective Structured Clinical Examination (OSCE) practice questions are included to assist students in their preparation for examinations. Nearly 300 clinical photographs, illustrations and tables further enhance learning. Key points Comprehensive guide to critical care medicine for postgraduates Presented in a case-based, question and answer format Includes numerous OSCE practice questions to help students prepare for examinations Highly illustrated with clinical photographs, diagrams and tables PACTPatient-Centred Acute Care Training : a ESICM multidisciplinary distance learning programme for intensive care trainingMCQS in Critical Care MedicineWolters kluwer india Pvt Ltd

This book provides a state-of-the-art overview on critical care administration. The text reviews important aspects and considerations involved in developing an efficient, cost-effective critical care program, while maintaining a safe and high-quality work environment. Major topics covered include different models of critical care services, planning and budgeting, administration support, staffing models, tele/smart ICU, protocols and guidelines, and disaster preparedness and management. Written by experts in the field, Critical Care Administration: A Comprehensive Clinical Guide is a practical, handy resource for critical care professionals involved in the administration and management of ICUs.

The influenza pandemic caused by the 2009 H1N1 virus underscores the immediate and critical need to prepare for a public health emergency in which thousands, tens of thousands, or even hundreds of thousands of people suddenly seek and require medical care in communities across the United States. Guidance for Establishing Crisis Standards of Care for Use in Disaster Situations draws from a broad spectrum of expertise--including state and local public health, emergency medicine and response, primary care, nursing, palliative care, ethics, the law, behavioral health, and risk communication--to offer guidance toward establishing standards of care that should apply to disaster situations, both naturally occurring and man-made, under conditions in which resources are scarce. This book explores two case studies that illustrate the application of the guidance and principles laid out in the report. One scenario focuses on a gradual-onset pandemic flu. The other scenario focuses on an earthquake and the particular issues that would arise during a no-notice event. Outlining current concepts and offering guidance, this book will prove an asset to state and local public health officials, health care facilities, and professionals in the development of systematic and comprehensive policies and protocols for standards of care in disasters when resources are scarce. In addition, the extensive operations section of the book provides guidance to clinicians, health care institutions, and state and local public health officials for how crisis standards of care should be implemented in a disaster situation.

Endorsed by the Australian College of Critical Care Nurses (ACCCN) ACCCN is the

peak professional organisation representing critical care nurses in Australia Written by leading critical care nursing clinicians, Leanne Aitken, Andrea Marshall and Wendy Chaboyer, the 4th edition of *Critical Care Nursing* continues to encourage and challenge critical care nurses and students to develop world-class practice and ensure the delivery of the highest quality care. The text addresses all aspects of critical care nursing and is divided into three sections: scope of practice, core components and specialty practice, providing the most recent research, data, procedures and guidelines from expert local and international critical care nursing academics and clinicians. Alongside its strong focus on critical care nursing practice within Australia and New Zealand, the 4th edition brings a stronger emphasis on international practice and expertise to ensure students and clinicians have access to the most contemporary practice insights from around the world. Increased emphasis on practice tips to help nurses care for patients within critical care Updated case studies, research vignettes and learning activities to support further learning Highlights the role of the critical care nurse within a multidisciplinary environment and how they work together Additional resources on Evolve An eBook on VitalSource Instructor resources Case Study suggested responses Learning Activity suggested responses Additional Case Study answers Image collection, including tables Student resources Additional Case Studies Weblinks Increased global considerations relevant to international context of critical care nursing alongside its key focus within the ANZ context Aligned to update NMBA RN Standards for Practice and NSQHS Standards An eBook included in all print purchases

This book, part of the European Society of Intensive Care Medicine textbook series, teaches readers how to use hemodynamic monitoring, an essential skill for today's intensivists. It offers a valuable guide for beginners, as well as for experienced intensivists who want to hone their skills, helping both groups detect an inadequacy of perfusion and make the right choices to achieve the main goal of hemodynamic monitoring in the critically ill, i.e., to correctly assess the cardiovascular system and its response to tissue oxygen demands. The book is divided into distinguished sections: from physiology to pathophysiology; clinical assessment and measurements; and clinical practice achievements including techniques, the basic goals in clinical practice as well as the more appropriate hemodynamic therapy to be applied in different conditions. All chapters use a learning-oriented style, with practical examples, key points and take home messages, helping readers quickly absorb the content and, at the same time, apply what they have learned in the clinical setting. The European Society of Intensive Care Medicine has developed the *Lessons from the ICU* series with the vision of providing focused and state-of-the-art overviews of central topics in Intensive Care and optimal resources for clinicians working in Intensive Care.

The *Yearbook* compiles the most recent developments in experimental and clinical research and practice in one comprehensive reference book. The chapters are written by well recognized experts in the field of intensive care and emergency medicine. It is addressed to everyone involved in internal medicine, anesthesia, surgery, pediatrics, intensive care and emergency medicine.

This book trains the next generation of scientists representing different disciplines to leverage the data generated during routine patient care. It formulates a more complete lexicon of evidence-based recommendations and support shared, ethical decision

making by doctors with their patients. Diagnostic and therapeutic technologies continue to evolve rapidly, and both individual practitioners and clinical teams face increasingly complex ethical decisions. Unfortunately, the current state of medical knowledge does not provide the guidance to make the majority of clinical decisions on the basis of evidence. The present research infrastructure is inefficient and frequently produces unreliable results that cannot be replicated. Even randomized controlled trials (RCTs), the traditional gold standards of the research reliability hierarchy, are not without limitations. They can be costly, labor intensive, and slow, and can return results that are seldom generalizable to every patient population. Furthermore, many pertinent but unresolved clinical and medical systems issues do not seem to have attracted the interest of the research enterprise, which has come to focus instead on cellular and molecular investigations and single-agent (e.g., a drug or device) effects. For clinicians, the end result is a bit of a “data desert” when it comes to making decisions. The new research infrastructure proposed in this book will help the medical profession to make ethically sound and well informed decisions for their patients.

This clinical casebook provides a comprehensive yet concise state-of-the-art review of adult critical care medicine. Presented in a case-based format, each case focuses on a scenario commonly encountered with an adult patient in the ICU. Case scenarios include management of seizures and acute intracranial hypertension, sepsis, liver failure, brain death, bleeding and thrombosis, and treating hospital acquired infections in the ICU. Written by experts in the field, *Adult Critical Care Medicine: A Clinical Casebook* is a valuable resource for critical care specialists and practitioners who treat adult patients in critical care settings.

In diesem handlichen Kitteltaschenbuch finden Sie die wichtigsten Fakten zur Beatmung: Prinzipien, Beatmungsverfahren bei speziellen Krankheitsbildern sowie Prävention und Behandlung von beatmungsbedingten Komplikationen. Ideal für alle Ärzte und das Fachpflegepersonal auf Intensivstation und im OP. Übersichtlich, praxisrelevant und auf das Wesentliche reduziert. Passt garantiert in jede Kitteltasche und als ebook auf das Smartphone! Nach kurzer Zeit liegt bereits die 2. aktualisierte Auflage vor.

Edited and written by an international "who's who" of more than 100 authors, including anesthesiologists, nurse anesthetists, bench scientists, a surgeon, and representatives of industry, this text provides a comprehensive history of anesthesia, unique in its focus on the people and events that shaped the specialty around the world, particularly during the past 70 years when anesthesia emerged from empiricism and developed into a science-based practice.

*Paediatric Critical Care Manual* is an useful bedside resource in the niche specialty of paediatric critical care. Primarily meant for paediatric fellows and postgraduates working predominantly in paediatric ICU, this book would be equally useful for practicing paediatricians and physicians who face sick children in their day-to-day practice. This book has the potential to give confidence and competence to any physician taking care of critically ill children, as well as the postgraduates and fellows planning to take the exit level examinations, on their way to expertise in this field.

**Key Features**

This book is open access under a CC BY 4.0 license. It constitutes a unique source of knowledge and guidance for all healthcare workers who care for patients with sepsis



and septic shock in resource-limited settings. More than eighty percent of the worldwide deaths related to sepsis occur in resource-limited settings in low and middle-income countries. Current international sepsis guidelines cannot be implemented without adaptations towards these settings, mainly because of the difference in local resources and a different spectrum of infectious diseases causing sepsis. This prompted members of the Global Intensive Care working group of the European Society of Intensive Care Medicine (ESICM) and the Mahidol-Oxford Tropical Medicine Research Unit (MORU, Bangkok, Thailand) - among which the Editors – to develop with an international group of experts a comprehensive set of recommendations for the management of sepsis in resource-limited settings. Recommendations are based on both current scientific evidence and clinical experience of clinicians working in resource-limited settings. The book includes an overview chapter outlining the current challenges and future directions of sepsis management as well as general recommendations on the structure and organization of intensive care services in resource-limited settings. Specific recommendations on the recognition and management of patients with sepsis and septic shock in these settings are grouped into seven chapters. The book provides evidence-based practical guidance for doctors in low and middle income countries treating patients with sepsis, and highlights areas for further research and discussion. This is the tenth edition of the authoritative API Textbook of Medicine, completely revised, updated and expanded, with 28 brand new chapters. The textbook is comprised of two volumes, divided into 29 sections. Beginning with an introduction to the practice of medicine, and a disease profile and epidemiology of communicable and non-communicable diseases, each subsequent section covers a separate medical specialty. The second section on 'Clinical Approach to Key Manifestation' has been expanded with six new chapters, including the appropriate selection of imaging modalities. Other new topics in this edition include advanced cardiac life support system, life-style changes in the management of diabetes, diabetes in the elderly, prevention of cardiovascular disease, acute and chronic pancreatitis, and tumours of the liver. Chapters on chronic and sleep-related pulmonary disorders have been completely re-written to highlight their increased prevalence, and a new chapter on pulmonary rehabilitation has been added. An entirely new section on the 'Future of Medicine' including regenerative medicine, nanotechnology and nanomedicine, robotic surgery, and an introduction to 'space medicine', brings the API Textbook of Medicine to its conclusion. With 1090 full colour images and illustrations, spanning over 3000 pages, this all-encompassing textbook is a comprehensive guide to the practice of medicine, brought fully up-to-date for physicians, surgeons and post-graduate medical students. Key Points New edition of this comprehensive, two volume textbook Fully revised, updated and expanded with 28 new chapters New section on the future of medicine 1090 full colour images and illustrations Previous edition published 2012 This book is one of the first to comprehensively summarise the latest thinking and research in the rapidly evolving field of quality management in intensive care. Quality indicators and outcome measures are discussed with a practical focus on patient-centred, evidence-based implementation for safer and more effective clinical practice. Chapters on topics such as teambuilding, patient satisfaction, mortality and morbidity, and electronic management systems are organised into three sections, covering quality management at the scale of the individual patient, the intensive care unit, and the

national and international level. Written by a team of over forty international experts in the specialty, with editors who have been heavily involved for many years with the European Society of Intensive Care Medicine, the book reflects commonly accepted goals and guidelines for best practice, and will be valuable for practitioners worldwide. The ideal one-stop resource for intensive care physicians as well as ICU and hospital managers.

The origin of modern intensive care units (ICUs) has frequently been attributed to the widespread provision of mechanical ventilation within dedicated hospital areas during the 1952 Copenhagen polio epidemic. However, modern ICUs have developed to treat or monitor patients who have any severe, life-threatening disease or injury. These patients receive specialized care and vital organ assistance such as mechanical ventilation, cardiovascular support, or hemodialysis. ICU patients now typically occupy approximately 10% of inpatient acute care beds, yet the structure and organization of these ICUs can be quite different across hospitals. In *The Organization of Critical Care: An Evidence-Based Approach to Improving Quality*, leaders provide a concise, evidence-based review of ICU organizational factors that have been associated with improved patient (or other) outcomes. The topics covered are grouped according to four broad domains: (1) the organization, structure, and staffing of an ICU; (2) organizational approaches to improving quality of care in an ICU; (3) integrating ICU care with other healthcare provided within the hospital and across the broader healthcare system; and (4) international perspectives on critical care delivery. Each chapter summarizes a different aspect of ICU organization and targets individual clinicians and healthcare decision makers. A long overdue contribution to the field, *The Organization of Critical Care: An Evidence-Based Approach to Improving Quality* is an indispensable guide for all clinicians and health administrators concerned with achieving state-of-the-art outcomes for intensive care.

The purpose of this book is to bring together the latest findings on metabolic disorders that are strongly implicated in various critically ill patients. Since the beginning of the 20th century, maintaining the "milieu intérieur" has been a major challenge for intensivists. In addition to considerable technological developments in intensive care units, important advances in our understanding of metabolic disorders observed in critically ill patients have been made during the 10 last years. Today, the intensivist can't ignore these disorders when selecting the most appropriate treatment for an illness. Cellular metabolic abnormalities are responsible for systems and organ failures, so the modern approach of organ dysfunctions now includes prevention or treatment of such disorders. This book is a comprehensive tool, allowing the physician to understand, diagnose and treat these metabolic disorders. Water, electrolyte, acid-base, glycemic and endocrinologic problems, as well as metabolic abnormalities observed in renal, cerebral and hepatic failure are presented in different chapters. The last part of the book is devoted to modern nutritional concepts, the consequences of energy modifications, mitochondrial dysfunction, hypothermia, oxidative stress and ischemia reperfusion, which open the way for new therapies.?

This book offers a comprehensive, up-to-date overview of optimal postoperative care in patients who have undergone thoracic surgery and discusses challenging issues that are of interest not only in the context of thoracic surgery but also more generally within the fields of anesthesia, intensive care, and pain medicine. The coverage ranges, for

example, from use of non-invasive ventilation, extracorporeal membrane oxygenation, and new monitoring devices to fluid management, pain control, and treatment of arrhythmias. A key feature of the book is the exceptionally attractive list of authors, who represent the most authoritative experts on the topics that they address. The approach is appropriately multidisciplinary, acknowledging that in many centers thoracic anesthesiologists are responsible for care during the postoperative period. This book is exceptional in being devoted solely to postoperative care in thoracic surgery, even though the difficulties involved in thoracic operations sometimes exceed those of cardiac surgery, especially in the postoperative period.

This is the first comprehensive book published from India which is based on MCQs, primarily for doctors appearing for competitive exams in critical care medicine. It is also a must have for every doctor and nurse working in the ICU, as the case scenarios and latest recommendations will help them to have a better approach towards complex situations and provide better care to the patients.

Acute Care Nursing provides an accessible and practical overview of the role of the nurse in acute medical and surgical settings in the Australian and New Zealand context. Linking closely with the Australian 'Registered nurse standards for practice' and the New Zealand Competencies for Registered Nurses, this text equips students with foundational knowledge of the pathophysiology, treatment and legal and ethical issues associated with common acute conditions. Through the person-centred, collaborative care approach, students will also learn effective communication, decision-making and cultural competency skills that are essential for nurses in any practice context. Each chapter is enriched with pedagogical features designed to solidify understanding and promote critical thinking, including case studies, reflections, key terms, review questions, research topics and further readings. Offering students a relevant and contemporary understanding of the acute care context, Acute Care Nursing is an essential companion that can be taken from the classroom into practice.

Edited and written by a Who's Who of internationally known advanced practice nursing experts, Hamric and Hanson's *Advanced Practice Nursing: An Integrative Approach*, 6th Edition helps you develop an understanding of the various advanced practice registered nursing (APRN) roles. This bestselling textbook provides a clear, comprehensive, and contemporary introduction to advanced practice nursing today, addressing all major APRN competencies, roles, and issues. It covers topics ranging from the evolution of advanced practice nursing to evidence-based practice, leadership, ethical decision-making, and health policy. New to this edition is expanded coverage of interprofessional collaborative practice, updated coverage of APRN roles related to implementation of healthcare reform in the U.S., updated and expanded coverage of IOM and QSEN, a global focus on international advanced practice nursing, and much more! Coverage of all APN core competencies defines and describes all competencies, including direct clinical practice, guidance and coaching, consultation, evidence-based practice, leadership, collaboration, and ethical decision-making. Operationalizes and applies the APN core competencies to the major APN specialties including the Clinical Nurse Specialist, the Primary Care Nurse Practitioner, the Acute Care Nurse Practitioner, the Certified Nurse-Midwife, and the Certified Registered Nurse Anesthetist. Content on managing APN environments addresses such factors as business planning and reimbursement; marketing, negotiating, and contracting;

regulatory, legal, and credentialing requirements; health policy; and nursing outcomes and performance improvement research. UNIQUE! Exemplar boxes (case studies), including Day in the Life vignettes of each APN specialty, emphasize innovative practices and coverage of advanced practice roles. In-depth discussions of educational strategies for APN competency development show how nurses develop competencies as they progress into advanced practice. NEW and UNIQUE! Expanded coverage of interprofessional collaborative practice includes the latest Interprofessional Education Collaborative (IPEC) Core Competencies for Interprofessional Collaborative Practice. NEW! Updated coverage of APRN roles related to implementation of healthcare in the U.S. reflects current and anticipated changes in APRN roles related to healthcare reform. NEW! Coverage of IOM and QSEN has been updated and expanded. NEW! Refocused International Development of Advanced Practice Nursing chapter has been rewritten to be more global and inclusive in focus, to reflect the state of advanced practice nursing practice throughout all major regions of the world. NEW! Expanded content on the role of advanced practice nurses in teaching/education/mentoring and health policy related to the APRN role is featured in the 6th edition.

This updated and refined new edition is the only book to provide a comprehensive approach to the intensive care of neurologically injured patients from the emergency room and ICU through the operating room and post-surgical period. It reviews neuroanatomy, neuroradiology, and neurophysiology, examines the neurological problems most frequently seen in intensive care, and describes the various types of neurosurgery. General issues are discussed, such as cardiac care, fluids and electrolytes, nutrition, and monitoring as well as more specific conditions and complications including elevated intracranial pressure, seizures, and altered mental states.

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