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Core Topics in Critical Care Medicine Critical Care Medicine Clinical Application of Artificial Intelligence in Emergency and Critical Care Medicine, Volume IV Contemporary Topics in Critical Care Medicine Oxford Textbook of Critical Care Insights in Family Medicine and Primary Care: 2021 Introduction to Critical Care Nursing - E-Book Introduction to Critical Care Nursing 6 Revision Notes in Intensive Care Medicine Critical Care Nursing Textbook of Post-ICU Medicine: The Legacy of Critical Care Critical Care Update 2020 ABC of Intensive Care Asian Archives of Critical Care Medicine Critical Care Medicine E-Book Critical Care Ultrasonography Principles and Practice of Hospital Medicine Case-Based Review in Critical Care Medicine Public Health Aspects of Critical Care Medicine and Anesthesiology Case Studies in Critical Care Medicine Fang Gao Smith Michael James Murray Zhongheng Zhang Atul P Kulkarni Andrew Roy Webb Arch Mainous Mary Lou Sole Mary Lou Sole Stuart Gillon Sheila K. Adam Robert D. Stevens Subhash Todi Graham R. Nimmo Joseph E. Parrillo Alexander Levitov Sylvia McKean Atul Prabhakar Kulkarni Peter Safar Roy D. Cane

Core Topics in Critical Care Medicine Critical Care Medicine Clinical Application of Artificial Intelligence in Emergency and Critical Care Medicine, Volume IV Contemporary Topics in Critical Care Medicine Oxford Textbook of Critical Care Insights in Family Medicine and Primary Care: 2021 Introduction to Critical Care Nursing - E-Book Introduction to Critical Care Nursing 6 Revision Notes in Intensive Care Medicine Critical Care Nursing Textbook of Post-ICU Medicine: The Legacy of Critical Care Critical Care Update 2020 ABC of Intensive Care Asian Archives of Critical Care Medicine Critical Care Medicine E-Book Critical Care Ultrasonography Principles and Practice of Hospital Medicine Case-Based Review in Critical Care Medicine Public Health Aspects of Critical Care Medicine and Anesthesiology Case Studies in Critical Care Medicine Fang Gao Smith Michael James Murray Zhongheng Zhang Atul P Kulkarni Andrew Roy Webb Arch Mainous Mary Lou Sole Mary Lou Sole Stuart Gillon Sheila K. Adam Robert D. Stevens Subhash Todi Graham R. Nimmo Joseph E. Parrillo Alexander Levitov Sylvia McKean Atul Prabhakar Kulkarni Peter Safar Roy D. Cane

the critical care unit manages patients with a vast range of disease and injuries affecting every organ system the unit can initially be a daunting environment with complex monitoring equipment producing large volumes of clinical data core topics in critical care medicine is a practical comprehensive introductory level text for any clinician in their first few months in the critical care unit it guides clinicians in both the initial

assessment and the clinical management of all ccu patients demystifying the critical care unit and providing key knowledge in a concise and accessible manner the full spectrum of disorders likely to be encountered in critical care are discussed with additional chapters on transfer and admission imaging in the ccu structure and organisation of the unit and ethical and legal issues written by critical care experts core topics in critical care medicine provides comprehensive concise and easily accessible information for all trainees

this authoritative reference published under the auspices of the american society of critical care anesthesiologists ascca is now in its second edition more than 100 internationally recognized experts present state of the art strategies for successful cost effective perioperative care and management of acutely ill patients this thoroughly revised edition features many distinguished new contributors from anesthesiology critical care medicine internal medicine surgery and pediatrics timely new chapters cover medical informatics evidence based medicine human genomics research in critical care medicine and imaging in the icu chapters on acute respiratory distress syndrome sepsis and other diseases have been rewritten to reflect recent technological and therapeutic breakthroughs

this research topic is the fourth volume of the series clinical application of artificial intelligence in emergency and critical care medicine volume i clinical application of artificial intelligence in emergency and critical care medicine volume i volume ii clinical application of artificial intelligence in emergency and critical care medicine volume ii volume iii clinical application of artificial intelligence in emergency and critical care medicine volume iii analytics based on artificial intelligence has greatly advanced scientific research fields like natural language processing and imaging classification clinical research has also greatly benefited from artificial intelligence emergency and critical care physicians face patients with rapidly changing conditions which require accurate risk stratification and initiation of rescue therapy furthermore critically ill patients such as those with sepsis acute respiratory distress syndrome and trauma are comprised of heterogeneous population the one size fit all paradigm may not fit for the management of such heterogeneous patient population thus artificial intelligence can be employed to identify novel subphenotypes of these patients these sub classifications can provide not only prognostic value for risk stratification but also predictive value for individualized treatment with the development of transcriptome providing a large amount of information for an individual artificial intelligence can greatly help to identify useful information from high dimensional data altogether it is of great importance to further utilize artificial intelligence in the management of critically ill patients

section 1 airway management current controversies 1 can sellick maneuver prevent pulmonary aspiration in the critically ill 2 etomidate vs ketamine what should we use for intubation in icu section 2 extracorporeal therapies 3 plasmapheresis current indications in the critically ill 4 are super high flux membrane dialyzers the future of rrt 5 what is new in artificial liver support systems section 3 sepsis 6 back to the genes does genetic polymorphism have a role in sepsis management 7 controversies in surviving sepsis guidelines 2021 8 are we back to square one early fluids vs vasopressors in septic shock 9 have we achieved balance in fluid therapy balanced salt solutions vs normal saline section 4 biomarkers 10 novel biomarkers during circulatory shock 11 biomarkers in acute intoxications 12 do biomarkers have a role in patients with primary brain injury 13 utility of microRNAs in the critically ill 14 neutrophil to lymphocyte ratio in critically ill a simple but useful marker 15 do vocal biomarkers have a future in critical care section 5 covid 19 pandemic lessons learnt 16 awake prone positioning in ards 17 immunomodulators for covid 19 therapy 18 has critical care telemedicine come of age during the pandemic 19 post covid conditions pccs or long covid syndrome 20 capacity building during large scale disasters 21 clearing the air alternatives to isolation rooms section 6 mechanical ventilation 22 revisiting exogenous surfactant therapy in acute lung injury and ards 23 mechanical power 24 volumetric capnography in 2022 25 metabolic alkalosis in critical care a classical and physicochemical approach 26 oxygen revisited section 7 28 high flow nasal cannula beyond a covid 19 therapy 29 cefiderocol 30 newer fluoroquinolones levonadifloxacin delafloxacin and lascufloxacin 31 newer combinations of b lactam b lactamase 32 newer tetracyclines eravacycline and omadacycline 33 plazomicin a new aminoglycoside 34 lefamulin a pleuromutilin antibiotic 35 pretomanid for antitubercular therapy 36 conbezolid acefosalil a new oxazolidinone 37 solithromycin and nafithromycin the new macrolides 38 benapenem and sulopenem 39 the dsb disulfide bond 40 antivirulence strategies the future of antibacterial therapy 41 alternatives to conventional antibacterials use of nanomaterials 42 newer treatment approach to clostridioides difficile fidaxomicin and bezlotoxumab 43 recent advances for immunotherapies against infectious disease section 8 what's new elsewhere 44 risk scoring systems in upper gastrointestinal bleed 45 has hypotension prediction index come of age 46 postintensive care syndrome and postintensive care syndrome family 47 closed loop hemodynamic resuscitation in shock 48 is electrical impedance tomography finally here to stay 49 cardiac output measurement capnodynamic method and auto vti tool 50 what's new in glucose management technologies for the critically ill 51 vitamins and trace element supplementation for critically ill patients in 2022 index

oxford textbook of critical care second edition addresses all aspects of adult intensive care management taking a unique a problem orientated approach this text is a key reference source

for clinical issues in the intensive care unit

user friendly and easy to understand introduction to critical care nursing 6th edition offers clear concise coverage of essential critical care concepts technology and procedures completely updated evidence based content addresses the latest advances in high acuity care and emphasizes patient safety and optimum patient outcomes plus an abundance of active learning resources and realistic case studies enables you to apply your knowledge and strengthen your critical thinking and clinical decision making skills case studies challenge you to apply concepts from the book to real life patient specific cases with lab results and accompanying questions to test your critical thinking skills critical thinking questions in every chapter encourage you to apply the concepts presented throughout the chapter evidence based practice boxes illustrate how research and evidence are used to address problems in patient care and their implications for nursing practice boxes include the aacn's new system for level of evidence a b c d e and m nursing care plans provide nursing diagnoses expected patient outcomes and interventions with rationales to prepare you for clinical practice clinical alerts promote patient safety and better clinical care by highlighting potential problems and concerns for a variety of settings laboratory alerts discuss both common and cutting edge tests and procedures emphasizing the importance of laboratory test results to critical nursing care pharmacology tables detail the actions usage indications dosages routes side effects and nursing implications of commonly used critical care drugs a new chapter on solid organ transplantation provides information on caring for both donors and recipients receiving these increasingly common procedures emphasizing the commonalities and unique attributes for the various transplantations enhanced ecg measurement coverage helps you master this complex area with standardized ecg strips that are 6 seconds long and computer rendered for clarity an emphasis on qsen competencies enables you to gain the knowledge skills and attitudes needed for providing high quality safe health care new bariatric considerations boxes highlight the effects of obesity on critical illness as well as important safety alerts and interventions for the morbidly obese new colorful design includes full color illustrations that visually clarify key concepts and revised algorithms that use color to enhance your understanding of the latest american heart association guidelines

covers essential critical care concepts technology and procedures this title addresses the advances in high acuity care and emphasizes patient safety and optimum patient outcomes

revision notes in intensive care medicine is a key resource for candidates preparing for postgraduate intensive care examinations mapped to the fficm edic and fcicm syllabuses this title ensures candidates have all the information needed to prepare for their examinations information is presented in concise note form and

bullet points with visually memorable tools such as tables and diagrams making revising and retaining key facts easier chapters are arranged into physiological systems such as respiratory intensive care and obstetric intensive care and are subdivided into major clinical issues within each chapter so specific areas of further study can be found easily drawing from the authors experiences as successful candidates and carefully reviewed by consultants revision notes in intensive care medicine provides the foundation for postgraduate intensive care exam revision

the structure of the book allows new students to understand the physiology underlying the patient's condition before concentrating on the priorities of interventions and nursing care critical care nursing will not only act as an excellent base for nurses new to the critical care area but will also provide an updated review of evidence based practice for nurses already familiar with the discipline book jacket

surviving critical illness is not always the happy ending we imagine for patients many icu survivors suffer from a range of long lasting physical and psychological issues such as end stage renal disease congestive heart failure cognitive impairment neuromuscular weakness and depression or anxiety which affect their overall quality of life and ability to lead productive lives this lingering burden or legacy of critical illness is now recognized as a major public health issue with major efforts underway to understand how it can be prevented mitigated or treated the textbook of post icu medicine the legacy of critical care discusses the science of the recovery process and the innovative treatment regimens which are helping icu survivors regain function as they heal following trauma or disease describing the major clinical syndromes affecting icu survivors the book delineates established or postulated biological mechanisms of the post acute recovery process and discusses strategies for treatment and rehabilitation to promote recovery in the icu and in the long term the chapters are written by an interdisciplinary panel of leading clinicians and researchers working in the field the book serves as a unique reference for general practitioners internists and nurses caring for long term icu survivors as well as specialists in intensive care medicine neurology psychiatry and rehabilitation medicine

this new and updated edition is a practical guide to intensive care for the non specialist providing the core knowledge and principles of intensive care patient management from general principles through to critical care outreach and end of life care it covers best practice management in the intensive care unit it includes the key organ system support as well as monitoring sepsis brain stem death and nutrition in intensive care there is also full coverage of organ donation this invaluable resource is highly illustrated in colour throughout with new images references to key evidence and further reading and resources in each chapter it is

ideal for junior doctors medical students and specialist nurses working in an acute hospital setting and the icu and neonatal icu and for anyone involved in the management and care of intensive care patients endorsed by the intensive care society uk and the scottish intensive care society this title is also available as a mobile app from medhand mobile libraries buy it now from google play or the medhand store

here s the most clinically oriented critical care text focusing on the adult patient in full color and superbly illustrated with clinical photographs imaging studies and management algorithms and with a broad multidisciplinary focus this text will help you enhance your skills at any level of training stands alone as a clinically oriented comprehensive reference completely updated and authorship expanded to reflect the evolution in critical care practice in color for the first time with new color schematics and treatment algorithms for greater ease of reference utilizes key points lists at the end of chapter to help you make decisions rapidly and easily delivers key references that list other useful resources for information learn from the best icu specialists worldwide with contributions from an increased number of international authorities effectively manage common complications in the icu with updated coverage of severe sepsis septic shock surgical infections neurogenic and anaphylactic shock severe heart failure acute coronary syndromes and acute respiratory distress syndrome access the complete contents online at expert consult along with an image bank and instructional videos

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

the definitive guide to the knowledge and skills necessary to practice hospital medicine presented in full color and enhanced by more than 700 illustrations this authoritative text provides a background in all the important clinical organizational and administrative areas now required for the practice of hospital medicine the goal of the book is provide trainees junior and senior clinicians and other professionals with a comprehensive resource that they can use to improve care processes and performance in the hospitals that serve their communities each chapter opens with boxed key clinical questions that are addressed in the text and hundreds of tables encapsulate important information case studies demonstrate how to apply the concepts covered in the text directly to the hospitalized patient principles and practice of hospital medicine is divided into six parts systems of care introduces key issues in hospital medicine patient safety quality improvement leadership and practice management professionalism and medical ethics medical legal issues and risk management teaching and development medical consultation and co management reviews core tenets of medical consultation preoperative assessment and management of post operative medical problems clinical problem solving in hospital medicine introduces principles of evidence based medicine quality of evidence interpretation of diagnostic tests systemic reviews and meta analysis and knowledge translations to clinical practice approach to the patient at the bedside details the diagnosis testing and initial management of common complaints that may either precipitate admission or arise during hospitalization hospitalist skills covers the interpretation of common low tech tests that are routinely accessible on admission how to optimize the use of radiology services and the standardization of the execution of procedures routinely performed by some hospitalists clinical conditions reflects the expanding scope of hospital medicine by including sections of emergency medicine critical care geriatrics neurology palliative care pregnancy psychiatry and addiction and wartime medicine

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

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