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Critical Care MedicineClinical Application of Artificial Intelligence in Emergency and Critical Care Medicine, Volume IVContemporary Topics in Critical Care MedicineCore Topics in Critical Care MedicineIntroduction to Critical Care Nursing6Introduction to Critical Care Nursing - E-BookInsights in Family Medicine and Primary Care: 2021Critical Care Update 2020Asian Archives of Critical Care MedicineCritical Care NursingPrinciples and Practice of Hospital MedicineCritical Care UltrasonographyTextbook of MedicineCase Studies in Critical Care MedicinePublic Health Aspects of Critical Care Medicine and AnesthesiologyHarrison's Principles of Internal MedicineCritical Care Emergency Medicine, Second EditionThe Pharos of Alpha Omega Alpha-Honor Medical SocietyAmerican Journal of Respiratory and Critical Care MedicineAnnals of the Academy of Medicine, Singapore Michael James Murray Zhongheng Zhang Atul P Kulkarni Fang Gao Smith Mary Lou Sole Mary Lou Sole Arch Mainous Subhash Todi Sheila K. Adam Sylvia McKean Alexander Levitov Russell La Fayette Cecil Roy D. Cane Peter Safar Dennis L. Kasper David A. Farcy Alpha Omega Alpha Academy of Medicine (Singapore)

Critical Care Medicine Clinical Application of Artificial Intelligence in Emergency and Critical Care Medicine, Volume IV Contemporary Topics in Critical Care Medicine Core Topics in Critical Care Medicine Introduction to Critical Care Nursing6 Introduction to Critical Care Nursing - E-Book Insights in Family Medicine and Primary Care: 2021 Critical Care Update 2020 Asian Archives of Critical Care Medicine Critical Care Nursing Principles and Practice of Hospital Medicine Critical Care Ultrasonography Textbook of Medicine Case Studies in Critical Care Medicine Public Health Aspects of Critical Care Medicine and Anesthesiology Harrison's Principles of Internal Medicine Critical Care Emergency Medicine, Second Edition The Pharos of Alpha Omega Alpha-Honor Medical Society American Journal of Respiratory and Critical Care Medicine Annals of the Academy of Medicine, Singapore *Michael James Murray Zhongheng Zhang Atul P Kulkarni Fang Gao Smith Mary Lou Sole Mary Lou Sole Arch Mainous Subhash Todi Sheila K. Adam Sylvia McKean Alexander Levitov Russell La Fayette Cecil Roy D. Cane Peter Safar Dennis L. Kasper David A. Farcy Alpha Omega Alpha Academy of Medicine (Singapore)*

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 micrnas 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 contezolid acefosamil 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

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

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

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

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

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

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 new color of medicine hundreds of diagrams and clinical photos integrated into the text for the first time in full color this description refers to the single volume of Harrison's Principles of Internal Medicine 16e the Harrison's name is synonymous with internal medicine HPIM continues to be the most authoritative and 1 selling medical textbook throughout the world from its unique section on signs and symptoms through to the most comprehensive coverage of most all conditions seen by physicians Harrison's is the internal medicine reference of choice Harrison's 16th edition features new expanded revised and updated material on the key topics in medical practice today from the latest research findings to up to the minute advances in diagnostic and treatment methodologies Harrison's puts the facts you need at your fingertips the 16th edition improves on a winning formula with state of the art coverage of over 4 700 diseases and disorders more than any other internal medicine text in the areas of oncology and hematology infectious diseases cardiology pulmonology gastroenterology clinical immunology rheumatology endocrinology and neurology a brand new full color format 665 full color drawings 175 clinical and laboratory images and hundreds of boxes tables and algorithms that use color to guide you to the information you need asap in everyday patient care thorough revision and updates of virtually all chapters the addition of key new chapters including extensive new coverage of critical care medicine 145 algorithms for making accurate clinical decisions fast at the point of care 1 160 easy access tables for immediate access to vital information and formulas cardinal manifestations of disease signs and symptoms in 55 chapters you'll find yourself turning to this section over and over again here you will find all the major manifestations such as fever pain aches and rash presented in depth with a referral that takes you to the disease section for the complete chapter stay a step ahead of everyday practice with the most authoritative comprehensive and useful guide to the entire spectrum of internal medicine

the groundbreaking text on critical care emergency medicine updated with the latest evidence and recommendations a doody's core title for 2024 2021 critical care emergency medicine has become the standard reference for all clinicians who wish to understand the overlap between emergency medicine and critical care much like the field of emergency medicine itself this text is a collaborative effort involving emergency physicians as well as clinicians from trauma critical care infectious diseases and pulmonary medicine critical care emergency medicine teaches emergency physicians everything they must know and do to better care for critically ill patients in an emergency department or to provide care in an ICU enhanced by numerous algorithms that speed decision making and full color illustrations demonstrating anatomy and technique this book is an essential practice tool incorporating the wisdom of both academic and community emergency medicine experts critical care emergency medicine second edition delivers expert coverage of airway and ventilatory support pulmonary disorders cardiovascular disorders gastrointestinal and renal disorders neurologic and neurosurgical disorders hematologic and endocrine disorders infectious disorders toxicologic conditions ultrasonography in critical care special considerations including nutritional support end of life issues fluid management and more if you

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