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Updated and expanded second edition of the singular review source for neurocritical care boards, this book contains multiple-choice questions that cover the breadth of topics tested on the boards with answers and rationales for self-study. The book has been completely and thoroughly revised to reflect the requirements for initial certification or recertification in Neurocritical Care with the latest findings of the most recent clinical trials in vascular neurology, neurocritical care, and critical care medicine incorporated. Organized to reflect the training curriculum and exam blueprint, the second edition now contains 740 questions addressing both neuroscience critical care and general critical care core knowledge. Detailed explanations are provided for each question along with references for further study. Case questions with angiograms, EEG and monitoring waveforms, CT perfusion scans, and other images allow candidates to familiarize themselves with these tools that form a significant part of the exam. This book is an excellent resource not only for board preparation but for topical review for residents and fellows from all disciplines of medicine rotating in the neurocritical care unit as it is easy to read, concise, and portable with case examples and imaging to further guide education. Trainees taking the surgical or medicine critical care boards will also find it useful as it covers the neurocritical care component of their board curriculums. Key Features: Second edition of the first dedicated review book available for neurocritical care boards Over 90 entirely new questions added to ensure coverage of the full range of topics tested on boards and essential to training in neurocritical care Revised and updated questions, answers, and references to reflect current science and practice Comprehensive high-yield review of both neurological and general critical care topics New chapter on critical care EEG and more image-based case questions to augment learning

Neurocritical Care Board Review: Questions and Answers provides clinicians with a thorough review of the complex subspecialty of Neurocritical Care, using a question and answer (Q and A) format. the Q and A format is easily readable, high yield, and serves as good practice for test takers or anyone looking to improve or reinforce essential knowledge. the book is organized according to the UCNS Neurocritical Care core curriculum outline and covers the key topics represented on the boards. A to-

tal of 647 questions address both neuroscience critical care (general neurology, neurotrauma, neurovascular and

" "I commend the editors for their careful perspective on the current state of neuromonitoring. The individual chapters provide excellent overviews of specific neuromonitoring tools and paradigms. From the Foreword by J. Claude Hemphill III, MD, MAS, FNCS While damage resulting from a primary injury to the brain or spine may be unavoidable, harm from secondary processes that cause further deterioration is not. This practical, clinical resource describes the latest strategies for monitoring the brain after acute injury. With a focus on individualization of treatment, the book examines the role of various monitoring techniques in limiting disability and potentiating patient recovery during the acute phase of brain injury. International experts in diagnosis and treatment of secondary injury explain in detail the current utilization, benefits, nuances, and risks for each commercially available monitoring device as well as approaches vital to the care of brain and spine injured patients. They cover foundational strategies for neuromonitoring implementation and analysis, including proper catheter placement, duration of monitoring, and treatment thresholds that indicate the need for clinical intervention. The book also addresses multimodality monitoring and common programmatic challenges, and offers guidance on how to set up a successful multimodal monitoring protocol in the ICU. Also included is a chapter on the key role of nurses in neuromonitoring and effective bedside training for troubleshooting and proper execution of treatment protocols. Numerous illustrations provide further illumination. Key Features: Presents state-of-the-art neuromonitoring techniques and clinical protocols for assessment and treatment Emphasizes practical implementation for successful patient outcomes Written by international experts at the forefront of neurocritical care monitoring Provides a framework for practitioners who wish to individualize patient care with an emphasis upon the needs of the critically ill brain Discusses the key role of nurses in neuromonitoring and effective bedside training for management and troubleshooting of devices "

A complete board examination review for neurocritical care - enhanced by more than 800 Q&A The NeuroICU Board Review is a comprehensive board exam and curriculum review for the emerging spe-

cialty of neurocritical care. It delivers a through overview of neurological disease states (pathology, pathophysiology, and therapy), neurosurgery, and critical care medicine (including medical, surgical, cardiac, and cardiothoracic critical care), along with important topics such as neuromonitoring, neurosurgical emergencies, neuropharmacology, and neurosurgical post-operative care. This powerful review also includes clinical scenarios and more than 800 questions and answers with detailed answer explanations, with accompanying images, illustrations, tables, and detailed references. • Developed for residents and practicing physicians preparing to take certifying board exams in Neurocritical Care, Surgical Critical Care, and Neurological Surgery • More than 800 Q&A with detailed answer explanations • Clinical scenarios show readers how to apply principles to real-world cases

In recent years, neurocritical care has grown and matured as a subspecialty of Critical Care Medicine with the advent of new monitoring, diagnostic, and therapeutic capabilities. The goal of neurocritical care is to rapidly deliver acute medical therapies and appropriate interventions through effective monitoring of both neurological and end organ function. Neurocritical Care provides 'at the bedside' guidance on the medical knowledge and technical skills required to care for critically ill patients with neurologic conditions such as cerebrovascular disorders, neurotrauma, neuro-oncology, refractory seizures, neuromuscular diseases, infections, alterations in consciousness, and perioperative neurosurgical care. Part of the Pittsburgh Critical Care Medicine series, this compact volume is an ideal reference for physicians and trainees working in either a general ICU or specialty Neuro ICU unit. Readers will gain an understanding of background knowledge and concrete solutions to questions and situations encountered in daily practice.

Core Topics in Neuroanesthesia and Neurointensive Care is an authoritative and practical clinical text that offers clear diagnostic and management guidance for a wide range of neuroanesthesia and neurocritical care problems. With coverage of every aspect of the discipline by outstanding world experts, this should be the first book to which practitioners turn for easily accessible and definitive advice. Initial sections cover relevant anatomy, physiology and pharmacology, intraoperative and critical care monitoring and neuroimaging. These are followed by detailed sections covering all aspects of neuroanesthesia and neurointensive care in both adult and pediatric patients. The final chapter discusses ethical and legal issues. Each chapter delivers a state-of-the-art review of clinical practice, including outcome data when available. Enhanced throughout with numerous clinical photographs and line drawings, this practical and accessible text is key reading for trainee and consultant anesthesiologists and critical care specialists.

"Why a second edition of the text book - Goodman's Neurosurgery Oral Board Review? The American Board of Neurological Surgery Oral Examination is the important final step in the certification process of a neurosurgeon. The examination has been in a constant state of evolution over the last 75 years. A major change in the examination process occurred in 2017, and the details of this transition are nicely outlined in Chapter 1. In keeping with this significant change in the Oral Board Examination format - I felt that the Goodman course needed to change to keep up with the Examination - see Chapter 3. The 2nd edition of the book now also reflects these updates with an emphasis on how to prepare for the current exam format. "--

This practical question and answer book covers topics within the field of neurocritical care, including aspects of neurology, neurosurgery, general critical care, and emergency medicine. Each chapter

serves as a standalone test, comprised of approximately 100 questions, and closely mimics the tone and scope of the United Council for Neurologic Subspecialties (UCNS) certification exam in neurocritical care. Rationale and discussion are provided in the answers section at the end of each exam. This practical study guide will help prepare critical care fellows and residents from a variety of backgrounds (including internal medicine, neurology, anesthesiology, and emergency medicine) for the UCNS exam.

A practical, protocol-oriented guide to the practice of neurology in the hospital setting A Doody's Core Title for 2019! Hospital neurology is one of the fastest growing subspecialties within neurology. Running an efficient and effective neurohospitalist line is important to the financial success of hospitals and the physicians employed there. Many neurology patients also have internal medicine problems, and often it is a general hospitalist without neurology training who treat these patients. These physicians sorely need more information on neurology. Conversely, neurologists caring for these patients have only had one year of internal medicine training and require more guidance on medical problems. Given these realities, there is a need for a resource on hospital neurology. With The Hospital Neurology Book, Drs. Salardini and Biller have created a practical, concise, and useful work that guides both neurologists and internists in the areas in which their training is currently not sufficient for hospital practice. The Hospital Neurology Book features a highly readable format, providing information physicians can act upon, including recipes and protocols for patient care and question-based chapter headings that lead physicians to the exact issue they are dealing with in the moment. Each chapter (or chapter section as appropriate) opens with a case study, setting the stage in a highly practical manner, and ends with high yield summary points useful for consolidating learning.

Neurology: A Queen Square Textbook is a remarkable fusion of modern neuroscience with traditional neurology that will inform and intrigue trainee and experienced neurologists alike. Modern neuroscience has penetrated exciting and diverse frontiers into the causes, diagnosis, and treatment of neurological disease. Clinical neurology, whilst greatly enhanced by dramatic advances in molecular biology, genetics, neurochemistry and physiology, remains deeply rooted in practical traditions: the history from the patient and the elicitation of physical signs. Neurologists, neuroscientists and neurosurgeons working at Queen Square, and advised by an international editorial team, have combined their expertise and experience to produce this unique text. The synthesis of clinical neurology with translational research provides a fresh perspective which is Practical Multidisciplinary Translational Integrative The blend of new science and proven practice underpins this creative approach towards investigating and improving the care of patients suffering from neurological diseases. About Queen Square The world-renowned National Hospital for Neurology & Neurosurgery and UCL Institute of Neurology, based in Queen Square, London, have an international reputation for training, research and patient care. Research at both institutions leads developments in translational medicine that are transforming the treatment of neurological disease.

Mayo Clinic Critical and Neurocritical Care Board Review is a comprehensive review of critical care medicine and neurocritical care to assist in preparation of the neurocritical care and general critical care boards.

Kumar and colleagues' Neurocritical Care Management of the Neurosurgical Patient provides the

reader with thorough coverage of neuroanatomical structures, operative surgical approaches, anesthetic considerations, as well as the full range of known complications relating to elective and non-elective neurosurgical procedures. Drawing upon the expertise of an interdisciplinary team of physicians from neurosurgery, neurology, anesthesiology, critical care, and nursing backgrounds, the text covers all aspects intensivists need to be aware of in order to provide optimal patient care. Over 100 world-renowned authors from multispecialty backgrounds (neurosurgeons, neuro-interventionalists, and neurointensivists) and top institutions contribute their unique perspectives to this challenging field. Six sections cover topics such as intraoperative monitoring, craniotomy procedures, neuroanesthesiology principles, spine and endovascular neurosurgery, and additional specialty procedures. Includes 300 tables and boxes, 70 line artworks, and 350 photographic images. Clinical pearls pulled out of the main text offer easy reference.

This book is designed for physicians in the ICU who need a straightforward, practical reference for management of critically ill neurological and neurosurgical patients.

This book presents a student-centric, problem-based approach to learning key issues in neuroanesthesia and neurocritical care, a concept that is gaining popularity and acceptance in the medical education field. Each chapter starts with a brief case scenario describing the condition, followed by series of questions and answers covering important aspects like differential diagnosis, associated comorbidity, preoperative evaluation and preparation, intraoperative anesthetic management, postoperative management and prognosis. Featuring questions to engage readers, and providing answers based on reason and supported by evidence and references, the book is a valuable educational aid for trainees and residents. It also offers insights into the real-world clinical situations, making it of interest to practicing anesthesiologists and neuroanesthesiologists.

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 concise, yet comprehensive review covers the diagnostic and treatment information needed for the vascular neurology board exam. The assembled material is easy-to-read with chapters emphasizing clinically relevant scientific principles that must be mastered by the stroke clinician. Neurology, vascular neurology and neuro-critical care residents and fellows will find this text to be an invaluable preparation guide and a succinct source to complement treatment guidelines and protocols.

**A PRACTICAL QUICK-REFERENCE GUIDE TO CLINICAL ANESTHESIOLOGY--PERFECT FOR THE OR AND ICU** This carry-anywhere handbook is concise yet comprehensive, adeptly covering the wide range of topics encountered in the practice of anesthesiology. It is the perfect learning tool for trainees and an outstanding reference for experienced anesthesiologists. Presented in full color, *The Anesthesia Guide* utilizes numerous illustrations, diagrams, tables, and algorithms to impart must-know information on how specific cases should be managed. Coverage includes drug dosages, monitoring, complications, and clinical pearls. An international team of contributors ensures coverage of topics from a global perspective. The *Anesthesia Guide* is divided into thirteen color-coded sections for ease of reference: Preoperative Coexisting Disease Monitoring General Anesthesia Specific Procedures Cardiovascular and Thoracic Neuro Regional Acute Pain Pediatrics Obstetrics Critical Care Rapid Reference (includes important formulae, commonly used phrases in anesthesiology, BLS, ACLS, PALS, and management of malignant hyperthermia)

*Neurotrauma in Multiple Choice Questions* is the FIRST review book to use the multiple-choice question format in neurosurgical trauma. Students of neurosurgery, the resident, the fellow, the younger neurosurgeon preparing for exams or practice, and even the later stage neurosurgeon are the target audience of this book. The information in this work is in accordance with the most up-to-date best practice evidence, with a style that mirrors the format adopted by the majority of local, regional, and international board examinations. The strategy and format of the questions provide a stepwise progression from definition to surgical decision-making, to a comprehensive and concise overview of neurological trauma.

This practical book covers neuro-critical care procedures performed in medical or surgical ICU and different procedures dedicated to acute neurological care. The book's format allows for quick decisions about care and protocols while treating neurologically injured patients. Divided into two sections, the first focuses on procedures. The outlines of these chapters include indication, technique, types of kits available, and challenges. The second section covers the protocols; these chapters feature flowcharts, drugs/device, doses of drugs, description of device, indication, evidence, and future prospects. This succinct guide will serve as a go-to reference for residents, fellows, intensivists, or any healthcare personnel within neuro-critical care unit.

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.

Fully revised and updated, the *Handbook* serves as a practical guide to endovascular methods and as a concise reference for neurovascular anatomy and published data about cerebrovascular disease from a neurointerventionalist's perspective. Divided into three parts, the book covers: Fundamentals of neurovascular anatomy and basic angiographic techniques; Interventional Techniques and endovascular methods, along with useful device information and tips and tricks for daily practice; Specific Disease States, with essential clinical information about commonly encountered conditions. New fea-

tures in the 2nd Edition include: Global Gems that illuminate aspects of the field outside the United States; Angio-anatomic and angio-pathologic image correlates; Newly released clinical study results influencing neurointerventional practice; Information on emerging technologies in this rapidly advancing field. The Handbook is a vital resource for all clinicians involved in neurointerventional practice, including radiologists, neurosurgeons, neurologists, cardiologists, and vascular surgeons.

This indispensable title rethinks the neurologic examination in a format tailored, modified, and specialized for neurocritical illness. Generously illustrated, this book provides a detailed clinical assessment of the acutely ill neurologic patient. It explains why certain neurologic signs appear and provides fundamentals of localization. Certain situations demand certain structured examinations. Eventually, all information has to be integrated logically. Different examination techniques may be needed. Recognition of deterioration and increased vigilance with important mimickers and confounders are part of our professional fabric. Other necessary skills include predicting a clinical course and outcome, coordinating effective transfers of unstable patients, and communicating expected clinical changes. Neurologists traditionally have carefully considered the examination findings before acting and localized findings before ordering tests; these heuristics must remain. An indispensable title designed for all learners, *Examining Neurocritical Patients* preserves the beauty of a comprehensive clinical neurologic examination and serves as a high-yield master class for every health care professional tasked with clinical assessment of a neurocritically ill patient.

A comprehensive one-stop reference for critical care medicine – bolstered by more than 500 Q&A McGraw-Hill Education Specialty Board Review: Critical Care Medicine is an evidence-based multidisciplinary perspective to critical care medicine. The format of each chapter consists of text followed by questions and answers. Authors from major academic centers discuss the basic principles of their field, along with the most recent studies. This unique review reflects the author's belief that competency in critical care medicine is derived from multiple factors: an understanding of the basics of medicine, access to the most current evidence, clinical experience, and openness to palliative care. Features: •500+ questions and answers, with detailed answer explanations•Covers all key topics on the ABIM Critical Care exam blueprint•Numerous high-quality images, including: x-rays, CT scans, and electrocardiograms•Essential for critical care fellows or intensivists studying for the critical care boards, as well as medical students, residents, and any other healthcare provider interested in critical care•Each of the 36 textbook-style chapters are followed by Q&A•Current guidelines from various specialties are incorporated, including their levels and/or grades of recommendation

This new review textbook, written by residents and an experienced faculty member from Cleveland Clinic, is designed to ensure success on all sorts of standardized neurology examinations. Presented in a comprehensive question-and-answer format, with detailed rationales, *Comprehensive Review in Clinical Neurology* is a must-have for both aspiring and practicing neurologists and psychiatrists preparation to take the RITE, the American Board of Psychiatry and Neurology written exams, and various recertification exams.

The quintessential reference for bedside medical management of neurocritical care patients Medical management of patients in the neurocritical care unit (NCCU) often spells the difference between life or death and return to normal function or a lifetime disability. As such, it is vital that patients with life-threatening neurological and neurosurgical illnesses receive prompt diagnosis and rapid interven-

tions in the NCCU. The *Jefferson Manual for Neurocritical Care* by renowned neurosurgeon Jack I. Jallo, neurointensive care physician Jacqueline S. Urtecho, and distinguished colleagues is a high-yield pocket resource ideal for the bedside care of patients with serious, life-altering diseases. Nineteen concise chapters encompass cerebrovascular, neuromuscular, oncologic, and traumatic conditions, as well as core clinical topics applicable to the care of neurocritical patients. Key Highlights Evidence-based management strategies created at Thomas Jefferson University's Vickie and Jack Farber Institute for Neuroscience presented in reader-friendly algorithms, pictures, and charts General chapters cover brain death, sodium dysregulation, nutrition, sedation, pain management, neuromonitoring, and ventilation strategies Disease-specific chapters featuring succinct, bulleted format include epidemiology, causes, diagnostic tests, treatment options, symptoms, common clinical presentation, risk factors, differential diagnoses, and more This manual is an indispensable resource for neurocritical care residents and fellows, NCCU nurses, nurse practitioners, physician assistants, general intensive care physicians, and neurointensivists.

Fully updated and revised, the second edition of *The Practice of Emergency and Critical Care Neurology* puts a more modern approach on the practice of emergency neurological care. When most texts within the field focus on the theoretical aspects, this book concentrates on the management of neurologic conditions, recognition of deterioration of neurologic functions, neurosurgical procedures, and immediate interventions. This text also presents hard data to explain why we do what we do. Dr. Wijdicks condenses essential information into several sections comprising of the principles in recognizing critically ill neurologic patients in the emergency department, the evaluation of symptoms indicating critical emergency, general principles of managing critically ill patients, monitoring devices and diagnostic tests, complete management of specific disorders in the neurosciences intensive care unit, postoperative neurosurgical and neurointerventional complications, management of medical complications, and end of life care. Key Features of the New Edition include 1. Additional chapters on critical consults in surgical and medical ICUs, critical care management, and comprehensive monitoring and biomarkers to reflect new research; 2. Rich illustrations using color photos of patients and drawings of important basic concepts of mechanism of acute neurologic disease; 3. Fully updated and comprehensive reference list; 4. A pocket book of selected tables and figures covering all essential points for quick reference and as a survival guide for house staff. This is the go-to guide for every physician, staff neurologist, neurointensivist, resident, and fellow in training with managing acutely ill neurologic patients.

Now completely revised and updated, this comprehensive text/reference covers all aspects of caring for the critically ill child. Recognizing that children are not simply small adults, it discusses the differences between critical care of adults and that of children, exploring relevant structural and functional aspects, pathophysiology, and treatment of common diseases that afflict and critically injure children. Physiology, biochemistry, and molecular biology are all included, with an emphasis on clinically applicable information. The clear, logical organ-system approach includes development, function, disease, and treatment for each entity, and helps the reader relate normal function, pathophysiology, and treatment to clinical problems.

*Anesthesiology Critical Care Board Review* fills a much-needed niche, not only in improving board examination test-taking skills but also as a tool for educating critical care physicians, anesthesiology

practitioners, and advanced practice providers with the most relevant, up-to-date, state of the art considerations in critical care medicine. Content is specifically designed to prepare Anesthesiology and Emergency Medicine critical care fellows for the American Board of Anesthesiology Critical Care Medicine Certification Examination. The book offers diagnostic and therapeutic management considerations, divided into sections on technical aspects of critical care and organ systems, in a question-and answer format with clear, concise explanations and targeted references for each question.

Praise for this book: Chapters are clearly written and...[the] black-and-white illustrations and reproductions of cerebral radiographs are of remarkably good quality...an excellent multidisciplinary overview.--Doody's Review From important aspects of the physical examination to imaging studies to treatment options and dosage guidelines, *Decision Making in Neurocritical Care* provides a solid introduction to the evidence-based management of patients in the neurological intensive care unit. Succinct text in a highly accessible bullet-point format details the essentials of history-taking, physical examination, differential diagnosis, diagnostic evaluation, and treatments for a range of neurological problems in the critical care setting. Special features: Brief vignettes of typical cases emphasize key questions for the physician to consider and urgent orders to be given Coverage of the basics of neurocritical care, including techniques of intubation, ventilator management, sedation, and multimodality monitoring Pearls and pitfalls highlight key points in patient management Convenient medication tables, including dosages, adverse effects, and contraindications Consistent presentation in each chapter enhances ease of use Ideal for neurologists, neurosurgeons and critical care physicians at all levels, this book is invaluable for optimizing patient care. It is also an excellent choice for board review preparation in these specialties.

A unique question-and-answer book for surgical residents and trainees that covers all surgical aspects of critical care and acute or emergency medicine This is a comprehensive, one-of-a-kind question-and-answer text for medical professionals and apprentices concentrating on the growing subspecialty of surgery in critical care and emergency surgery. Covering all surgical aspects of critical care and acute or emergency surgery, it is an ideal learning and review text for surgical residents and trainees who care for these patients and those taking the Surgical Critical Care Board Examination. Edited by highly experienced professionals, and written in an engaging style, *Surgical Critical Care and Emergency Surgery: Clinical Questions and Answers* focuses exclusively on the unique problems and complexity of illnesses of the critically ill and injured surgical patient, and covers the specialist daily care such patients require. It reflects the latest advances in medical knowledge and technology, and includes fully revised and updated questions throughout, with additional topics addressed in a new companion website. Unique question-and-answer book on the growing specialty of critical care and acute surgery Ideal for US boards candidates Covers trauma and burns as well as critical care 8 page full-color insert showing high quality surgical photos to aid study Supplementary website including additional questions *Surgical Critical Care and Emergency Surgery, Second Edition* is an excellent resource for medical students, residents, fellows, and surgeons, as well as those in non-surgical specialties.

A Quick Reference Text! Easy to read and practical in design, *Neurocritical Care* is the book specialists will turn to for quick reference. It concentrates on management problems, from diagnostic procedures to therapeutic strategies. Exact descriptions are given for treatment procedures, and it is easy

to find the appropriate treatment for a given patient. International Expertise! More than 100 authors from North America have contributed to the book. The different strategies used on either side of the Atlantic have been described, the sections on neuroimaging have been reviewed by a neuroradiologist. Comprehensive in Scope! Both frequent and rare neurological diseases that may require critical care treatment and subjects of more general interest such as monitoring strategies, ethical problems, brain death and neurological disorders in internal medicine have been covered. Pathophysiology is also discussed, inasmuch as it is important for understanding the treatment strategies.

*Critical Care MCQs* is the perfect companion for anyone sitting exams in intensive care, as a training resource or just wanting to improve their knowledge in this constantly developing area of medical practice. Written by critical care doctors with experience of UK and European examination formats, this book leads the reader through 450 true/false questions with referenced explanations, covering core syllabus topics and key influential papers to date. A detailed list of further resources and recommendations relevant to critical care revision is also provided to enable readers to further their knowledge and understanding. It is hoped that this book will prove invaluable for preparation and success in upcoming intensive care exams for both candidates and trainers. This book would be useful for not only candidates sitting the UK Final Fellowship of Intensive Care Medicine (FFICM) and European Diploma of Intensive Care (EDIC) exams, but also the Indian Diploma in Critical Care Medicine (IDCCM), the Diploma of the Irish Board of Intensive Care Medicine (DIBICM), the Australia and New Zealand Fellowship of the College of Intensive Care Medicine (CICM), American Board and any other country-related intensive care exams.

The acclaimed protocol-based guide to neurocritical care - essential for daily practice and the boards An immediate classic, this groundbreaking text is based on the premise that neurointensivists must be trained to handle not only the brain, but the entire body. The *NeuroICU Book, Second Edition* does not limit coverage to the brain and spine - it spans all organ insufficiencies and failures - along with neurologic illnesses. Thoroughly updated to keep pace with all the advances in this emerging field, the Second Edition of *The NeuroICU Book* combines the latest clinical perspectives in critical care medicine, neurology, and neurosurgery. This practical, evidence-based text standardizes neurocritical care and takes you through the rationale for those standards. Filled with detailed case studies and enhanced by a question-and-answer format, the book not only builds competency in recognizing acute changes in neurological function, but also addresses all organ insufficiencies and failures, reflecting the real-life challenges in the modern neuro-ICU. FEATURES • Strong emphasis on clinical practicality • Evidence-based approach leverages the scientific and controlled research that supports the key treatment methods outlined in the book • Practical tools include algorithms, tables, illustrations, photographs, detailed references, and critical take home points • Balanced coverage of neurologic and critical care and neurosurgery offers outstanding preparation for the neurocritical care board certification exam as well as an indispensable primer for daily clinical work • Second Edition includes new chapters covering CNS infection, paroxysmal sympathetic hyperactivity, acute liver failure, encephalopathy and delirium, spine trauma, pediatric neurosurgery, and carotid endarterectomy and extracranial-intracranial bypass

*Mayo Clinic Critical and Neurocritical Care Board Review* is an all-inclusive review of the pathophysiology and care of the neurocritically ill and critically ill patient. The book reviews the core major criti-

cal care and neurocritical care disorders, underlying pathophysiology, treatment decisions with questions and answers for self-directed study and board review purposes. The text is succinct, to the point, relevant, informative, and up-to-date with information from recent clinical trials and facts based on evidence-based medicine. The references are up-to-date and include the most recent critical care guidelines for further study. The book is written and closely supervised by experienced Mayo Clinic faculty and reviewed in detail by the editors. The book is suitable for self-study towards neurocritical care boards and a number of critical care board examinations and certification exams. Tables, explanatory drawings, and bullet points are used throughout the text for high-yield learning. Covering all four critical care board exams (anesthesiology, surgery, internal medicine, and neurology), *Critical Care Medicine Review: 1000 Questions and Answers* prepares you for exam success as well as clinical practice in today's ICU. This full-color, easy-to-use review tool provides challenging case studies, relevant images, multiple-choice board-style questions, rationales for correct and incorrect answers, and references for every question. Edited by instructors of anesthesia and critical care from Harvard Medical School and Massachusetts General Hospital, this comprehensive resource is an ideal study guide for critical care fellows, recertifying practitioners, and CCRNs.

Patients in the neurointensive care unit pose many clinical challenges for the attending physician. Even experienced clinicians occasionally arrive at the point where diagnostic, work-up, treatment, or prognostic thinking becomes blocked. *Neurocritical Care* is the next volume in the "What Do I Do Now?" series and provides the clinician with specific focus and insight on interventions in acute neurologic disorders. Neurocritical care in daily practice pertains to managing deteriorating patients, treatment of complications but also end-of-life care assisting families with difficult decisions. Written

with a conversational tone and using a case-based approach, *Neurocritical Care* emphasizes how to handle comparatively common clinical problems emergently.

"The cerebrospinal vasculature originates at the aortic arch. The right brachiocephalic artery divides into the right common carotid artery and the right subclavian artery. The left common carotid and left subclavian arteries arise directly from the aortic arch. The 2 common carotid arteries bifurcate into the internal and external carotid arteries. The anterior circulation of the brain includes the distal branches from the internal carotid artery, including the anterior cerebral artery and the middle cerebral artery. The vertebral arteries arise from the subclavians and join at the pontomedullary junction, forming the basilar artery. The vertebrobasilar system and distal branches are commonly known as the posterior circulation of the brain"--

This comprehensive book provides practical guidance on the care of the critical patient in the emergency department. It focuses on the ED physician or provider working in a community hospital where, absent the consulting specialists found in a large academic center, the provider must evaluate and stabilize critically ill and injured patients alone. Structured in an easily accessible format, chapters present fundamental information in tables, bullet points, and flow diagrams. Emergency medicine scenarios covered across 38 chapters include acute respiratory failure, spinal cord injuries, seizures and status epilepticus, care of the newborn, and end-of-life care. Written by experts in the field, *Emergency Department Critical Care* is an essential resource for practicing emergency physicians and trainees, internists and family physicians, advance practice nurses, and physician's assistants who provide care in emergency departments and urgent care centers.