

Neurosurgical Intensive Care

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 anesthetists and critical care specialists.

A major contribution to the literature in neurology from renowned neurointensivist Eelco F.M. Wijdicks, MD, PhD, Famous First Papers for the Neurointensivist presents and critically assesses numerous papers that have made a profound impact on the diagnosis and treatment of neurologically

acute conditions. In general, there has been little historical work in acute neurologic conditions, precisely because neurology is not perceived through this perspective. Famous First Papers for the Neurointensivist addresses this problem by a scholarly treatment of early descriptions of clinical signs, syndromes and presenting the development of treatment of these acute disorders. Using a uniform and easy-to-read format, the title offers a clear reproduction of each paper's title page, a short historical note, and a brief discussion and its implications, and a final comment to provide perspective. Landmark clinical trials that apply to acute neurology are included, and the book also briefly discusses the birth of intensive care units. Ground-breaking and indispensable for all physicians and researchers interested in neurocritical care, Famous First Papers for the Neurointensivist is a unique, original reference, providing not only a single source for discovering the most important papers in the field but also a critical analysis of the impact of each paper on the development of neurocritical care. "Dr Wijdicks has been integral to the growth and development of neurocritical care as a specialty. He has cultivated it firsthand, serving as a contemporary of Raymond Adams, C. Miller Fisher, and Allan Ropper, all pioneers in acute neurological care. He established the neurocritical care program at the Mayo Clinic in

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the early 1990s and has served as the editor in chief of the journal Neurocritical Care, which was first published in 2004 after the foundation of the Neurocritical Care Society. His unique vantage point allows him to bring us a book that few others could produce, Famous First Papers for the Neurointensivist. This book is an original in the field and should be on the reading list of anyone who cares for critically ill neurologic and neurosurgical patients... Reading this book from cover to cover is highly recommended. The writing is clear and concise, and the transitions are smooth. Each essay is self-contained and allows the reader to set his or her own pace. Once completed, the book serves as a great reference book because each essay stands on its own. The photographs of the manuscripts' title pages and key tables and figures are of high quality, and a translation is provided if the original work was not in English... Dr Wijdicks has sifted through the library stacks and has emerged with a book that puts the specialty of neurocritical care into historical perspective. In order to know where you are going, you must first know where you have been. This holds especially true for neurocritical care because the specialty continues to grow and flourish." -- JAMA NEUROL/VOL 70 (NO. 4), APR 2013 WWW.JAMANEURO.COM

An authoritative pocket-sized guide on the medical and surgical management of neurosurgical intensive

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care patients Decompression is still the mainstay of surgical intervention for neurosurgeons treating neurocritical care patients. However, during the last 20 years, an evolution away from a mechanistic approach has transformed neurocritical care into an increasingly multidisciplinary field. Neurosurgical Intensive Care, 2nd Edition reflects this new paradigm, authored by a neurosurgeon with contributions from experts in the fields of neurology, vascular neurology, interventional neuroradiology, anesthesiology, critical care, traumatology, nutrition, and advanced practice nursing. Neuromonitoring advances have enabled customized interventions tailored to each patient's unique circumstances. The critical care of neurosurgical patients has evolved from an emphasis on pulmonary care (ventilation and oxygenation) to a more nuanced understanding of cerebral protection measures required to manage a disrupted blood-brain-barrier. This edition encompasses advances in the use of ICP monitors, external ventricular devices, brain tissue oxygen monitoring devices, cerebral microdialysis, fluid and electrolyte correction, as well as the increasing use of continuous EEG in the ICU. Key Features Straightforward summaries for each stage of patient care including bedside exams, neuroimaging, lab work, triage procedures, sedation and pain management, neuropharmacology, nutritional needs, administration of fluids, and more. 159 tables and

figures facilitate rapid evaluation and decision making. Clinical pearls on a wide range of ICU scenarios - from pathophysiology and management of coma - to interventions for spinal cord injury, multisystem injuries, acute ischemic stroke, and pediatric cases. Insights on how to handle family communication and spiritual needs, medical-legal issues, and discharge planning This compact, highly practical handbook provides a stellar reference for managing critically ill neurosurgical patients in the ICU. It is a must-have resource for nurses, medical students, residents, fellows, and attending physicians who treat these patients.

This book offers valuable guidance to neurointensivists, other neurocritical care staff, and those desiring to develop a neurocritical care unit via a thorough discussion of neurological emergencies and neurocritical care unit organization. This comprehensive volume begins with a review of acute neurological emergencies as managed clinically in the neurocritical care unit. Topics include acute cerebrovascular, neurological, and neurosurgical disorders. The unique aspect of this book is its description of the organization of the neurocritical care unit. We focus on how other services in the hospital interact with and assist neurocritical care operations, telemedicine/telestroke, and neurocritical care personnel and their roles. A review of expected outcomes of neurocritical care conditions is also

included. Neurointensivists, neurocritical care unit staff leadership, hospital administrators, and those interested in developing a neurocritical care unit will find Neurointensive Care Unit: Clinical Practice and Organization to be an invaluable guide.

This handbook is aimed at first-line health care providers involved in the perioperative care of adult and pediatric neurosurgical patients. It is unique in its systematic focus on how to deal with common and important clinical challenges encountered in day-to-day practice in the OR, the PACU, and the ICU and is designed as a problem-solving tool for all members of the perioperative medicine team:

trainees and faculty in anesthesiology, neurosurgery, and critical care; nurses; nurse anesthetists; and physician's assistants.

- Encompasses clinical continuum from neurosurgical pre-op to critical care – plus anesthesia in neuroradiology
- Adult and pediatric care

- Structured algorithmic approach supports clinical decision-making
- Succinct presentation of clinically relevant basic science

- End-of-chapter summaries, with suggestions for further reading
- Collaborative approach and multidisciplinary nature of perioperative medicine emphasized

- Extensive summary tables
- Portable and formatted for quick retrieval of information
- Ideal for use in the OR, the PACU, and the ICU

Neuromonitoring is the tool of trade in intensive care, and should incorporate cutting edge technology with

patience, repeated clinical observation, careful identification of neuroworsening. The aim of the book is to be of practical use, and to assist the clinical practice of the busy physician. The clinical examination belongs to the introductory section of the book, and an abundance of technology, with specific emphasis on the importance of intracranial pressure, comes in the following parts. Since the patient with an injured brain can have chances only if other organs and systems (as the lungs, and the acid-base equilibrium etc.) are preserved, a section of the book covers the interactions between the affected brain and other organs. The way the brain reacts to different insults has common aspects, as inflammatory responses, edema etc., but also specific features. Sections five to nine summarize the most relevant pathologies, from ischemic to hemorrhagic lesions, trauma, tumors etc. and also mentions new?comers, as the specific problems related to the expanding field of neuroradiological interventions. Finally, neurointensive care does not exist without knowledgeable nurses. The intracranial pressure measurement starts (or unfortunately ends) with a catheter well maintained, and that becomes vital when the drainage of hydrocephalus is concerned. Dealing with patients with severe brain damage has plenty of ethical implications, up to the problems related to brain death and organ donation. This book is published in two volumes.

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This book focuses on controversial issues in neuroanesthesia and neurocritical care that in general have been subjected to insufficient professional scrutiny. The book is in three parts, the first of which is devoted to topics relating to traumatic brain and spinal cord injury, such as brain tissue oxygenation, the role of biomarkers, and diagnosis of brain death. Aspects of airway and pain management are then addressed, covering, for example, airway management in an emergency setting, airway evaluation in the edentulous patient, and pain management in neurosurgery and after craniotomy. The final part of the book considers a wide range of other challenging subjects in the field of neuroanesthesia and neurocritical care.

Throughout, much information is provided on the latest, state of the art management. The authors are acknowledged experts in the issues they discuss, and the book will be of interest for graduate and undergraduate students, residents, neuroanesthetists, neurointensivists, emergency medicine residents and specialists, fellows in neurocritical care and all those directly involved in the perioperative care of patients with head and neck pathology.

This comprehensive, evidence-based book is intended to serve as a reference for medical practitioners involved in the perioperative care of neurosurgical patients. Fundamental aspects of

neuroanesthesiology and neurocritical care are thoroughly examined across 101 chapters, outlining key elements that are crucial to a care provider's knowledge of the practice. These elements include specific diagnostic procedures and treatment options, concepts and applicable details of the available neurosurgical interventions and techniques, and mechanisms necessary to provide top of the line care for patients. Each chapter features definitive and distinct areas of this multi-specialty discipline, and is designed to guide the reader from problem to solution in situations that can arise in the clinical setting. Essentials of Neurosurgical Anesthesia & Critical Care, 2nd edition is a problem-oriented approach textbook that will aid a wide variety of readers in handling day-to-day issues and developments relevant to the perioperative care of neurosurgical patients. Brain injury is a worldwide leading cause of mortality and morbidity and requires early and appropriate management to minimize these adverse sequelae. Despite such needs, access to specialist centers is limited, forcing both immediate and secondary care of these patients onto generalist staff. These responsibilities are made more problematical by differences in patient management between and even within specialist centers, due in part to an insufficient evidence-base for many interventions directed at brain injury. This book is borne out of the above observations and is targeted at emergency and acute medicine, anesthetic and general intensive care staff caring for brain injury of diverse etiology, or surgical teams responsible for the inpatient care of minor to moderate

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head trauma. Although explaining the various facets of specialist care, the book is not intended to compete with texts directed at neurosciences staff, but aims to advise on optimal care in general hospitals, including criteria for transfer, by a combination of narrative on pathophysiology, principles of care, templates for documentation, and highly specific algorithms for particular problems. It is intended that the content and structure can form the basis of guidelines and protocols that reflect the needs of individual units and that can be constantly refined. Our ultimate goal is to promote informed, consistent, auditable, multidisciplinary care for this cohort of patients and we hope that this text contributes to that process.

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.

Patients with neurosurgical conditions are almost always referred from either primary care physicians, neurologists, internist or a specialist in family medicine. This guide will answer commonly asked questions about common neurosurgical conditions related to brain and spinal cord, in an attempt to fill in the gap and answer numerous questions that arises after a diagnosis is made on the loved ones. There are over 1500 academic and private hospitals in USA who have dedicated tertiary Neurosurgery services and cater

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millions of people in need, in addition to numerous centers that have level I and II trauma care. We aim to reach these centers and the families of the patients undergoing neurosurgical procedures. This book has been specially written and illustrated for families of patients undergoing neurosurgical procedures. It is straightforward, with non-technical language explaining the basics of neurosurgical diseases and their management including legal, ethical and financial issues.

A panel of international ICU and epilepsy physicians and researchers detail the epileptic phenomena that occur in the complex environment of the ICU. Focusing on the central nervous system, the authors systematically examine the most up-to-date evidenced-based data regarding ICU seizures, including their most frequent causes, their pathophysiology, their clinical presentation, and the diagnostic evaluation needed to confirm their presence. They also discuss the challenges and specifics of the management of ICU seizures, reviewing the new antiepileptics and their interaction with other ICU medications, drugs with epileptogenic properties used in the ICU, and the role of the new enterally available antiepileptics in treating seizures. Numerous tables summarize drug interactions, neuroimages reveal common ICU seizure etiologies, and multiple electroencephalographic recordings demonstrate clinical or subclinical seizures in ICU patients.

Advances in the management of head and spinal cord injury, stroke, brain tumors, and other disorders have improved dramatically in recent years -- and have led to improved care in the neurosurgical intensive care unit. In this must-have book, an expert team of authors integrate these advances into clinical practice by providing valuable tips and advice on the most current and up-to-date treatment strategies. The text covers all important topics in neurosurgical intensive care,

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from stroke and non-traumatic hemorrhage to intracranial hypertension, epilepsy management, and withdrawing life support. Plus, you'll find analysis of the newest clinical science on all topics, as well as a key discussion of how advanced bedside monitoring techniques can lead to improved patient care.

Key features of Intensive Care in Neurosurgery: Provides the newest clinical science on such timely topics as metabolic and nutritional monitoring, ventilator management, and cerebrovascular and cardiovascular physiology Describes how specific techniques can reverse the abnormal physiology of disease processes Written by top neurosurgeons who are experts in intensive care Addresses controversial topics in the field, including withdrawal of care and declaration of brain death Here is a valuable text for neurosurgeons, neurologists, and critical care specialists who treat patients in intensive care. Residents entering the field will also find it an essential learning tool and board review guide. Get the most current information available with the first text devoted to this topic in more than a decade!(A co-publication of Thieme and the American Association of Neurological Surgeons)

An authoritative and comprehensive review of the most important clinical issues facing critically ill neurologic and neurosurgical patients. The authors provide pertinent basic, clinical, diagnostic, and management guidelines for all the conditions commonly encountered in the neurocritical care unit, including the management of autonomic disorders that require critical care, postoperative management, and endovascular treatment. The authors also discuss the latest developments in the monitoring of different body systems, emphasizing the management of cardiorespiratory complications and other medical conditions that may threaten the patient's life. Also detailed are the concepts of intracranial physiology and current neuromonitoring techniques, subjects

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whose understanding is basic to effective management of critically ill neurologic patients. Numerous tables, figures, diagrams, and radiographs simplify and explicate both the diagnostic and therapeutic processes.

"The goal of neurological critical care is to rapidly deliver acute medical therapies and appropriate interventions through effective monitoring of both neurological and end organ function. The NeuroICU Book puts that goal within the reach of every neurologist and critical care specialist.

Combining the latest clinical perspectives in critical care medicine, neurology, and neurosurgery, this comprehensive, evidence-based text standardizes neurocritical care and takes you through the rationale for those standards. Filled with detailed case studies and featuring 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."--Publisher's website.

Neurosurgical Intensive Care Thieme

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.

Clinical Anesthesia in Neurosurgery, Second Edition, integrates the evolution of the field of neuroanesthesia with the major areas of neurosurgical activity to give the reader the required perspective and requisite information to help in laying the foundation for future advances as well as describing the current state of the art. The book contains 25 chapters organized into five parts. Part I presents studies on cerebral physiology and evaluation. Topics covered include cerebral circulation and

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metabolism, intraoperative neurophysiologic monitoring, and central nervous system effects of anesthetic agents. Part II covers neurosurgical and related procedures, such as posterior cranial fossa surgery, surgery of the spine, and peripheral nerve surgery. Part III examines central nervous system trauma including spinal cord trauma and cardiovascular effects of severe head injury. Part IV takes up postoperative and intensive care, including postanesthetic care, neurosurgical intensive care, and parenteral nutrition while Part V deals with the medical criteria and legal aspects of brain death. 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

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photographic images. Clinical pearls pulled out of the main text offer easy reference.

This is a practical and accessible review of neurologic critical care in the intensive care unit. The emphasis is on management in day-to-day practice. For the thoroughly updated and expanded second edition, the author has added new algorithms on outcome prediction in the specific disorders, and five new chapters on the organisation of the intensive care unit, acute spinal disorders, management of common postoperative neurosurgical complications, and psychosocial issues, ethics, and withdrawal of life support. For quick reference in the ICU the most useful tables and figures have been extracted and reprinted in an accompanying pocket-sized booklet.

Rapid response, assessment and management are crucial for neurocritical situations. Acute neurological illness is traumatic for patients and their families.

Physicians caring for these patients are often under great distress and need to rapidly assess the situation to allow appropriate stabilization and management.

Emergency Management in Neurocritical Care gives you the tools you need to perform under pressure in the neurocritical or emergency care unit. The no-nonsense approach corresponds to the attitude needed in both acute emergencies and in the neurocritical care unit.

Packed with handy tips to improve your care of patients, and written by internationally renowned experts, the book covers: Acute Management of Neurological Emergencies Cerebrovascular Critical Care Infections of the Nervous System Neuromuscular Complications Encountered in

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the Intensive Care Unit Neurological Complications and Consultations in General Intensive Care Units Acute Neuroimaging and Neuromonitoring in Neurocritical Care Clinical in approach, practical in execution, Emergency Management in Neurocritical Care will help you perform better in pressure situations.

An essential reference for the entire neurocritical care team This unique book presents an authoritative guide to the medical and surgical management of complex neurosurgical problems encountered in the critical care setting. It provides straightforward summaries of each stage of patient care, guiding the reader through initial assessment, including ordering the appropriate lab work, triage procedures, such as how to manage patients with multi-system injuries, and sedation and pain management. The book also covers important nursing and medical-legal issues related to neurosurgical intensive care. Features: Guidance on how to manage systemic complications, diseases, and infections Practical review of concepts in neuropharmacology and nutrition, and procedures for fluid management and ventilator management Select case examples throughout the book that supplement discussion of the decision-making process Recommendations for communicating with and caring for the families of neurosurgical intensive care unit patients This comprehensive book provides a wealth of information that is essential for neurosurgeons, intensive care unit nurses, house staff, nurse practitioners, physicians' assistants, residents at all levels, and medical students.

Companion to: Neurologic complications of critical illness

/ Eelco F.M. Wijdicks. 3rd ed. 2009.

This text addresses the current levels of evidence for management of a variety of critical parameters after severe traumatic brain injury (TBI), as well as providing the reader with practical approaches to care based upon existing evidence. A broad range of topics is included, ranging from specific critical care approaches to TBI to broader questions of prognostication and philosophies of treatment. Critical care topics include, for example: the type, timing, and safety of DVT prophylaxis; the choice of sedative agents in brain-injured patients; the practical application of multimodality neuromonitoring for prevention of secondary insults and injury; and the optimal treatment of dysautonomia. Broad approaches to treatment will include concepts such as: organization of trauma systems to maximize outcomes; end-of-life decision-making with incomplete data on prognosis; the use of medications to enhance recovery in the post-acute phase, and utilizing brain-machine interfaces for the restoration of function after injury. Written by experts in the field, each chapter is organized by proposal of a commonly encountered clinical question, addressing the current evidence for a variety of treatments, outlining the relevant questions on the topic that have not been adequately addressed in the literature, summarizing the options for treatment and the level of evidence upon which each is based, and finally proposing questions yet to be addressed in the literature. The text identifies in each chapter the ongoing questions for future research relevant to the topic at hand as well as providing a comprehensive educational reference for resident and

fellowship training.

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

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neurologist, neurointensivist, resident, and fellow in training with managing acutely ill neurologic patients. This unique book presents an authoritative guide to the medical and surgical management of complex neurosurgical problems encountered in the critical care setting. It provides straightforward summaries of each stage of patient care, guiding the reader through initial assessment, including ordering the appropriate lab work, triage procedures, such as how to manage patients with multi-system injuries, and sedation and pain management. The book also covers important nursing and medical-legal issues related to neurosurgical intensive care. Features: Guidance on how to manage systemic complications, diseases, and infections Practical review of concepts in neuropharmacology and nutrition, and procedures for fluid management and ventilator management Select case examples throughout the book that supplement discussion of the decision-making process Recommendations for communicating with and caring for the families of neurosurgical intensive care unit patients This comprehensive book provides a wealth of information that is essential for neurosurgeons, intensive care unit nurses, house staff, nurse practitioners, physicians assistants, residents at all levels, and medical students.

This 14th volume of *Advances in Neurosurgery* includes the papers presented at the 36th Annual Meeting of the German Society of Neurosurgery in Berlin, May 12-15, 1985. I would like to take this opportunity to thank the members of the program committee of the Society, Priv.-Doz. Dr. Klingner, Professors Brock, Dietz, Frowein,

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Lausberg, Willenweber, and Dr. Reuter for their assistance in selecting the contributions and in organizing the scientific program. The first main topic of the meeting was Spinal Cord Tumors. Introductory lectures dealing with basic anatomic knowledge, neuropathological aspects, and neurologic problems were followed by reports on examinations using conventional neuroradiology, scintiscanning, computer tomography as well as the most recent method in the diagnosis of spinal tumors, the magnetic resonance tomography. Also presented were the results of a multicentered study on spinal tumors, ascertained in cooperation with 43 German and Austrian neurosurgical clinics. The participants reported in great detail on the statistical data they recorded from 3056 cases and on the scientific findings obtained from this study. The session concluded with lectures on the possibilities for surgical treatment of spinal tumors and on oncologic and radiotherapeutic measures. Experimental Neurosurgery was the second main topic. Leading authorities in the field presented interesting papers on topics such as the therapy of vasculogenetic brain edema, the determination of neurotransmitters in brain tumors, results of cerebral blood flow measurement, and improved operative techniques using laser radiation. 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

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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 standard text and reference on neurological and neurosurgical intensive care is now in its Fourth Edition—thoroughly revised to incorporate the latest therapeutic advances and insights from the most recent clinical trials. A team of distinguished neuro-intensivists offers practical, state-of-the-art guidelines for managing the wide range of problems arising in postoperative neurosurgical care and care of patients with acute neurological diseases. This edition focuses sharply on the details of therapeutics. The authors, from leading neuro-intensive care units, have written the book collectively, giving it more cohesiveness and more of an authoritative consensus voice than previous multiauthored editions.

The thoroughly revised second edition of the Oxford Textbook of Critical Care is a comprehensive multidisciplinary text covering all aspects of adult intensive care management. Uniquely the book takes a problem-orientated approach providing a reference source for clinical issues experienced every day in the intensive care unit. The text is organized into short topics allowing readers to rapidly access authoritative information on specific clinical problems. Each topic refers to basic

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physiological principles and provides up-to-date treatment advice supported by references to the most vital literature. Where international differences exist in clinical practice, authors cover alternative views. Key messages summarise each topic in order to aid quick review and decision making. Edited and written by an international group of recognized experts from many disciplines, the second edition of the Oxford Textbook of Critical Care provides an up-to-date reference that is relevant for intensive care units and emergency departments globally. This volume is the definitive text for all health care providers, including physicians, nurses, respiratory therapists, and other allied health professionals who take care of critically ill patients. This print edition of The Oxford Textbook of Critical Care comes with a year's access to the online version on Oxford Medicine Online. By activating your unique access code, you can read and annotate the full text online, follow links from the references to primary research materials, and view, enlarge and download all the figures and tables.

This is the first book on the market which addresses the need for a pocket-sized guide to neuroanaesthesia, including the immediate and ongoing care of head injured patients.

This volume presents the special considerations necessary to properly manage child patients in the neurosurgical intensive care unit. Descriptions of ICU management of specific neurological disorders, as well as a discussion on end-of-life decision making, are included. This book highlights: * Cardiopulmonary

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Physiology * The Neurological Exam and Monitoring of Children * ICU Monitoring * Perioperative Management * Pathophysiology and Management of increased ICP * Fluid, Electrolytes and Neuroendocrine Physiology * Infectious Disease Management * Individual Chapters on the Intensive Care Management of Children with Head Injuries, Spinal Cord Injuries, Intracranial Hemorrhage, Cerebral Ischemia, Spinal Dysraphism, Epilepsy, and Brain Tumors * Ethical Issues of Care Withdrawl ... and much more.

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&A) format. The Q&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 covers the key topics pertinent to (and found on) neurocritical care boards, and is organized according to the exam core curriculum outline.. A total of 649 questions address both neuroscience critical care (general neurology, neurotrauma, neurovascular and neurosurgical problems) and general critical care topics (systems trauma, cardiovascular, infectious disease, pulmonary and renal issues, and hemodynamic monitoring). Detailed explanations follow in the answer section of each chapter, along with references for further study. Where relevant, neuroimaging, EEG and monitoring waveforms, and other images are included in case questions to allow candidates to familiarize themselves with these tools that form a significant part of the exam.

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Features of Neurocritical Care Board Review include:
Comprehensive, high-yield review that covers all areas tested on the neurocritical care certifying exam

Applicability to a wide range of physicians in multiple specialties reviewing for boards or looking to test skills and clinical acumen in this challenging area
Question and answer format with detailed explanations and references to facilitate recall of must-know information and help identify knowledge gaps for further attention
Material aggregated from multiple specialties into a singular resource for exam study

The critical care management of patients with life-threatening neurological conditions requires the ability to treat neurological injuries, manage medical complications and perform invasive procedures whilst balancing the management of the brain and the body.

The Oxford Textbook of Neurocritical Care provides an authoritative and up-to-date summary of the scientific basis, clinical techniques and management guidelines in this exciting clinical discipline. This highly authoritative textbook is conceptually divided into three sections.

Section 1 provides an accessible guide to the general principles of neurophysiology and neuropharmacology, cardiorespiratory support, management of fluids and intracranial hypertension. Section 2 outlines the use of multiple monitoring modes which are crucial to diagnosis and management. Section 3 covers the management of the major pathologies encountered during neurointensive care with an emphasis on evidence-based practice or consensus guidelines to provide a cohesive and definitive clinical resource. Authored by an international

team of expert practitioners this textbook reflects world-wide practice and guidelines. This volume is published with a concurrent online version, which features access to the full content of the textbook, contains links from the references to primary research journal articles, allows full text searches, and provides access to figures and tables that can be downloaded to PowerPoint®. Designed for consultants and trainees in neurocritical care, The Oxford Textbook of Neurocritical Care is also accessible to the general critical care physician and trainees who need a definite and authoritative resource to meet the unique needs of neurocritically ill patients.

Critical Care Neurology, Part II: Neurology of Critical Illness focuses on the care specialists and general neurologists that consult in the ICU and their work with patients in acute, life-threatening situations who are dealing with neurologic or neurosurgical crises emanating from either a preexisting neurologic syndrome or from a new neurologic complication appearing as a result of another medical or surgical critical illness.

These two separate clinical situations form the pillars of neurocritical care, hence these practices are addressed via two separate, but closely related, HCN volumes.

Chapters in both focus on pathophysiology and management, and are tailored for both general neurologists and active neurocritical specialists, with a specific focus on management over diagnostics. Part I addresses the principles of neurocritical care and the management of various neurologic diseases. Part II addresses the interplay between neurologic complications and the surgical, medical, cardiac, and

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trauma of critical illnesses that most typically present in the ICU. Provides an essential neurocritical care overview for general neurologists Presents neurocritical care specialists with an update on severe neurological illness management Offers coverage of all the most frequent neurologic diseases requiring intensive care Includes chapters authored by global leaders in the field, providing the broadest, most expert coverage available on the topics discussed

In *Neurotrauma and Critical Care of the Brain*, leading clinicians present widely accepted guidelines and evidence-based practices for the management of patients with traumatic brain injury. Divided into five main sections, the book guides the clinician through the science, management, critical care, outcomes, and important socioeconomic issues relevant to patient care. **Special Features:** Offers the valuable team approach and recommendations of renowned surgeons, clinicians, rehabilitation specialists, and researchers Includes guidelines for injuries ranging from mild to moderate, severe, and penetrating, and for treating brain injury in children Covers the related intensive care issues of neurologic, pulmonary, cardiovascular, and infection management and nutrition and fluid control Reviews fundamental science concepts, including pathophysiology, monitoring and imaging, biomarkers and classification systems for brain injury Provides hundreds of concise summary tables and illustrations to help digest complex information Discusses ethics and important end-of-life issues With an integrated management approach to injury and rehabilitation that

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goes well beyond initial surgery, Neurotrauma and Critical Care of the Brain will enable neurosurgeons, neurologists, physicians in trauma, critical care, and rehabilitation medicine, and residents in these specialties to optimize patient care and outcomes. It is also useful as a guide for board exam preparation. The companion volume to this book is Neurotrauma and Critical Care of the Spine.

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 interventions 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,

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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. The new Seventh Edition of the award-winning classic prepares its users to deliver expert care in this challenging nursing specialty. It addresses neuroanatomy, assessment, diagnostic evaluation and management of the complete range of neurological disorders for which nurses provide patient care, including trauma, stroke, tumors, seizures, headache, aneurysms, infections, degenerative disorders and features new chapters on neurological critical care and peripheral neuropathies. The new edition has been thoroughly revised to reflect standards of care based on evidence-based practice. It now includes separate pathophysiology sections in each chapter, new resource guides, such as internet sites and professional and patient information sources, key points summaries, evidence-based boxes, and nursing research features. The standard text and reference on neurological and neurosurgical intensive care is now in its Fourth Edition--thoroughly revised to incorporate the latest therapeutic advances and insights from the most recent clinical trials. A team of distinguished neuro-intensivists offers practical, state-of-the-art guidelines for managing the wide range of problems arising in postoperative

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neurosurgical care and care of patients with acute neurological diseases. This edition focuses sharply on the details of therapeutics. The authors, from leading neuro-intensive care units, have written the book collectively, giving it more cohesiveness and more of an authoritative consensus voice than previous multiauthored editions.

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.

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