
Neurosurgical Intensive Care

Intensive Care in Neurology and Neurosurgery
Case Studies in Neuroanesthesia and Neurocritical Care
Critical Care Neurology and Neurosurgery
Essentials of Neurosurgical Anesthesia & Critical Care
Oxford Textbook of Neurocritical Care
The NeuroICU Book
Textbook of Neurointensive Care
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Neurosurgical Intensive Care and the Management of Severe Head Injuries
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Clinical Anesthesia in Neurosurgery
Intracranial Angiomas. Neurosurgical Intensive Care. Supratentorial Tumors in Children

Mayo Clinic Critical and Neurocritical Care Board Review
The Jefferson Manual for Neurocritical Care

Neurosurgical Intensive Care

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ELIEZER GRACE

Intensive Care in Neurology and Neurosurgery Oxford University Press

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 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 Withdrawal ... and much more.

Case Studies in Neuroanesthesia and Neurocritical Care Springer Science & Business Media

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

Critical Care Neurology and Neurosurgery Oxford University Press

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.

Essentials of Neurosurgical Anesthesia & Critical Care Oxford University Press

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.

Oxford Textbook of Neurocritical Care Thieme

Now in paperback, the second edition of the *Oxford Textbook of Critical Care* is a comprehensive multi-disciplinary text covering all aspects of adult intensive care management. Uniquely this text takes a problem-orientated approach providing a key resource for daily clinical issues 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 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.

The NeuroICU Book Springer Science & Business Media

When one is confronted with an acute major neurologic problem, this book of moderate size may not be always immediately available (or has been "borrowed" by someone). This pocket size booklet compiles a selection of tables and figures mainly chosen to facilitate emergency care of critically ill neurologic patients. This small booklet should cover all the essential points and hopefully is also a "survival guide" for the house staff. It may even let them shine. It includes several blank pages for note taking and allows finding topics in a hurry. All of these features render this book an invaluable companion to *The Practice of Emergency and Critical Care Neurology*.

Textbook of Neurointensive Care Pittsburgh Critical Care Medic

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.

Neurological and Neurosurgical Intensive Care Oxford University Press, USA

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. Klinger, Professors Brock, Dietz, Frowein, 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.

Neurocritical Care Oxford University Press, USA

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, 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.

Neurointensive Care Unit McGraw Hill Professional

Emerging as a new sub-specialization within the hospitalist community, the neurosurgery hospitalist provides preoperative risk stratification, advises on managing pre- and postoperative complications, and helps doctors make decisions about when to involve specialists other than neurosurgeons. This collaborative approach to the neurosurgery patient has been shown to offer effective care since hospitalists can be better attuned than specialists to multiple medical problems that most patients have. *Medical Management of Neurosurgical Patients* is a first of its kind textbook providing a standardized source of information for neurosurgery hospitalists in order to establish a common ground and improve their knowledge and training. The work will focus on management of CNS infections, management of bleeding in the context of CNS surgery (a potentially catastrophic complication), management of sodium and blood glucose levels including steroid-induced hyperglycemia, perioperative pain control, and management of pressure injuries and rehabilitation in the context of CNS injury.

Neurocritical Care for Neurosurgeons SEEd

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.

Neurological and Neurosurgical Intensive Care Thieme

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.

Spinal Cord Tumors Experimental Neurosurgery Neurosurgical Intensive Care Oxford University Press

This book provides coverage of a broad range of topics in the field of neurosurgery, 5 for residents and registrars in training and for recent graduates of training programs. 6 As neurosurgical training incorporates expertise from centers worldwide, there is a 7 need to have input from specialists in neurosurgery from various countries. This text 8 is a compilation by expert authors in the USA and the UK to provide information on 9 the basic knowledge and clinical management required for optimal care of neuro- 2011 surgical patients. 1 The text is an up-to-date synopsis of the field of

neurosurgery from American and 2 British perspectives, which covers the most common clinical conditions encountered 3 by neurosurgeons. The chapters are organized under broad topics, including inves- 4 tigative studies, perioperative care, the role of newer techniques and the management 5 of tumors, vascular and traumatic lesions. Additional topics are then covered, includ- 6 ing pediatrics, spine and peripheral nerve lesions, as well as functional neurosurgery 7 and infections. We anticipate that trainees will find this information useful for certi?- 8 cation examinations and recent graduates of neurosurgical training programs can 9 utilize this text as an update of the most important neurosurgical topics.

Selected Tables and Figures from The Practice of Emergency and Critical Care Neurology Springer Science & Business Media

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.

Perceived Immediate Needs of Families of Neurological/neurosurgical Intensive Care Patients Springer Science & Business Media

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.

Medical Management of Neurosurgical Patients Springer Nature

This book is an invaluable review of neurologic critical care in the intensive care unit. The emphasis is on management in day-to-day practice. Part I is devoted to basic management of critically ill patients with acute neurologic diseases. Part II covers the technology and procedures used in the intensive care unit. Part III discusses the management of specific disorders in critical care neurology. Part IV deals with the management of postoperative neurosurgical complications. Part V covers the management of systemic complications. The final section, Part VI, discusses decisions at the end of life and other responsibilities. An appendix is devoted to the calculation of important variables and provides reference tables for daily practice. For quick reference in the intensive care unit the most useful tables and figures have been extracted by the author and reprinted in an accompanying pocket-sized booklet. For this thoroughly revised second edition, there are five new chapters on the organization of the intensive care unit and code of conduct of the neurointensivist, acute spinal disorders, the management of common postoperative neurosurgical complications (two chapters), ethics and legal problems, and withdrawal of life support. Also new to this edition are algorithms on outcome prediction in the specific disorders. This scholarly and yet accessible and practical book spans the entire field of acute neurology but remains cohesive as it is single-authored. Like the first edition, the second will be widely used by neurologists, specialists in neurologic intensive care, neurologists training in neurologic critical care and stroke fellowships, anesthesiologists, neurosurgeons, critical care specialists of all types, emergency physicians, residents in neurology and neurosurgery, and neuroscience nurses.

Neurological and Neurosurgical Intensive Care Thieme

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 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.

Intensive Care in Neurosurgery Thieme Medical Publishers

41 What Neurologists Know About Outcome in Post-. Resuscitation Coma and What Other Physicians Want to Know

Neurocritical Care Management of the Neurosurgical Patient E-Book Cambridge University Press

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 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.

Neurological & 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.