

Principles Of Neurosurgery

Textbook of Neurosurgery Handbook of Bleeding and Coagulation for Neurosurgery Investigations into the Potential Benefits of Artificial Intelligence and Deep Learning to Surgical Oncologists Present Limits of Neurosurgery Operative Techniques in Pediatric Neurosurgery Journal of Neurosurgery Advanced Techniques in Image-guided Brain and Spine Surgery Neurosurgical Operative Atlas: Vascular Neurosurgery Controversies in Neurological Surgery Second Yugoslav Congress of Neurosurgery British Journal of Neurosurgery The Smartbook of Neurosurgery Controversies in Pediatric Neurosurgery Clinical Brain Mapping Minimally Invasive Techniques in Neurosurgery Intraoperative Monitoring Techniques in Neurosurgery Microneurosurgery Modern Aspects of Neurosurgery Spinal Deformities Microsurgical and Endoscopic Approaches to the Skull Base Prakash Narain Tandon Mark G. Hamilton Marco Scarpa I. Fusek A. Leland Albright Isabelle M. Germano R. Loch Macdonald Michael T. Lawton Elizabeth Ogando-Rivas George I. Jallo Daniel Yoshor Alan Cohen Christopher M. Loftus Robert Wheeler Rand Deutsche Gesellschaft für Neurochirurgie Robert F. Heary Luis Borba

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this practical handbook presents the current options and best methods for bleeding prevention and management as well as treatment strategies for deep venous thrombosis dvt and pulmonary embolism pe all of which are important yet potentially intimidating issues frequently faced by neurosurgeons the chapters in the book are designed to help readers quickly and easily locate urgently needed information or go directly to a specific topic related to patient care key features review of drugs and herbal products that affect coagulation with specific reversal strategies preoperative and intraoperative methods to prevent and manage blood loss including strategies for blood replacement recommendations for prophylaxis and treatment of dvt and pe chapters dealing with the management of nine specific neurosurgical situations including brain tumor cerebrovascular trauma spinal and pediatric with patient examples comprehensive and conveniently portable this handbook is essential for both residents and practicing neurosurgeons or ent physicians who need to master and or refresh their knowledge of the best approaches for prevention and management of bleeding and dvt in their patients

computational power has risen exponentially in recent decades providing new opportunities in many fields including that of surgical oncology one branch of information technology permeating many aspects of healthcare is artificial intelligence ai and the incorporation of deep learning neural networks into clinical care ai enables the computational analysis of vast amounts of data and the learned ability to contextualize this information digitally through sophisticated algorithms opening a number of opportunities in the clinical setting this research topic aims to bring together the latest research in the field to demonstrate how these tools can be of benefit to surgical oncologists and patients alike oncological surgeons are tasked with making difficult clinical decisions simultaneously weighing up patient data with expected outcomes whilst keeping in mind the risks of subsequent morbidity and mortality incorporating deep learning algorithms in this field would enable mass clinical biochemical and radiological data analysis with numerous potential benefits current algorithms have been shown to be efficacious and efficient in making prognostic predictions and making post surgical outcome assessments using data from various sources this research topic invites manuscript submissions which demonstrate utilizations of ai as a tool to support surgical oncologists through their advanced data analysis capabilities manuscript submissions which showcase new opportunities for the incorporation of these systems into surgical practice are welcome as well as how ai can support clinical decision making and be used in the training of new oncological surgeons

this atlas of pediatric neurosurgery describes and demonstrates the spectrum of operations to treat the major disorders including congenital malformations hydrocephalus tumors vascular and functional disorders and trauma the chapters present state of the art techniques and are written by nationally recognized authorities the text serves as a companion to principles and practice of pediatric neurosurgery

this outstanding book provides an in depth analysis of current and developing applications in a rapidly growing field a highly acclaimed team of authors share their experience with image guided technology outlining the benefits and limitations of each procedure

a state of the art neurovascular surgery atlas from internationally renowned neurosurgeon r loch macdonald neurosurgical operative atlas vascular neurosurgery third edition by r loch macdonald and expert contributors reflects the latest advances in endoscopic endovascular microsurgical and bypass techniques used in the treatment of cerebrovascular disease the entire atlas has been streamlined and updated with new content including 38 videos that complement the concise step by step guidance in the text the book begins with five chapters on vascular and microsurgical instrumentation and equipment clipping versus coiling aneurysm surgery techniques the pterional approach and minimally invasive approaches disease and procedure specific chapters are organized by three sections aneurysms and subarachnoid hemorrhage vascular malformations and ischemic and other cerebrovascular disease every chapter includes salient tips on patient selection and procedural indications preoperative information and tests patient positioning operative nuances and postoperative complications key highlights nearly 300 high quality color illustrations detail impacted anatomy and procedures the latest techniques for treating a full spectrum of aneurysms such as ophthalmic segment supraclinoid internal carotid artery middle and anterior cerebral artery basilar and posterior cerebral artery and others treatment of vascular abnormalities including arteriovenous malformations superficial and brainstem cavernous malformations arteriovenous fistulae moyamoya disease and more neurosurgical residents will benefit from the firsthand knowledge shared by international masters while veteran neurosurgeons will glean invaluable insights on cutting edge endovascular techniques to enhance clinical practice

expand your knowledge of state of the art neurological surgery techniques this text provides insights into current trends and controversial issues regarding state of the art techniques in neurosurgery interventional neuroradiology and endovascular surgery the authors confront

such questions as are unruptured aneurysms managed most effectively by neurosurgical clipping or endovascular coiling is surgery or endovascular coiling the best treatment for ruptured cerebral aneurysms of the anterior or posterior cerebral circulation in managing arteriovenous malformations and fistulas should clinicians use neurointerventional techniques or surgery or a combination of both highlights more than 240 excellent illustrations figures and radiological images reviewing key concepts detailed coverage of treatments for ischemic diseases including extracranial and intracranial atherosclerosis discussion of the organizational issues of integrating subspecialties and training subspecialists this text also offers you the opportunity to earn valuable cme credits online neurosurgeons neuroradiologists neurologists vascular surgeons and specialists will find the book s balanced coverage of critical current issues in neurosurgery an indispensable aid in making informed decisions a co publication of thieme and the american association of neurological surgeons

this book has been done thinking about the most common challenging situations and questions that come during the daily activities as a resident or young neurosurgeon introducing the smartbook of neurosurgery is a concise informative useful and evidence based guide for residents young neurosurgeons and health care professionals interested in neurosurgery this book has been thought about the most common challenging situations and questions that come during the daily activities as a resident or young neurosurgeon this book contains over 2 000 questions divided into 8 chapters and these chapters include basic translational clinical and surgical scenarios the question and answer for the topics neuroanatomy neurophysiology neurological surgery neuropharmacology neuroradiology cranial and brain surgery neuroradiology neuropathology neurology pediatric neurosurgery spine surgery peripheral nerve tips and tricks on the cranial approach intracranial tumor neurosurgery endoscopic neurosurgery acromegaly cerebrovascular surgery and cranial trauma neurosurgery are clearly defined as the smartbook of neurosurgery this book represents a resource for on the fly consults on a busy hospital day as a refresher for boards and to prepare medical students for their neurosurgical rotations or before getting into the residency

world renowned experts debate key topics in pediatric neurosurgery in controversies in pediatric neurosurgery leading clinicians from around the globe present concrete advice and frank commentary on alternative options for the treatment and management of specific cranial and spinal disorders each succinct easily accessible chapter addresses a different condition in a point counterpoint format that discusses the pros and cons of the various treatment options including surgical approaches and techniques this highly practical balanced

coverage equips readers to make well informed choices when selecting the most appropriate treatment modality for a particular diagnosis features lessons learned at the end of each chapter in which the authors summarize the debate with multiple viewpoints and carefully considered recommendations based on published evidence and their own clinical experience incisive dialogue on twenty hot topics in the field including how to manage arachnoid cysts craniosynostosis tethered cord hydrocephalus chiari malformations epilepsy aneurysms and more clinical and personal insights from international contributors on the variability of surgical training experience and available resources in different parts of the world guidance on how to discuss treatment options and strategies to patients and their families this book is essential reading for every clinician resident or fellow who needs a firm understanding of the most controversial issues in pediatric neurosurgery to be able to make the best decision for the appropriate treatment option for patients in their care

the most accessible clinically focused guide to brain mapping techniques and systems this profusely illustrated concise yet detailed sourcebook enables both neurosurgeons and neurologists to map functions to specific cognitive and sensory locations in the brain clinical brain mapping takes you step by step through the methods and functional bases of the techniques focusing on all clinical situations that require cerebral localization for diagnosis and therapeutic management clinical brain mapping is cohesively organized into two sections techniques and systems the first section covers the full scope of methods for determining cerebral location from the classic wada test to the newest fmri and magnetoencephalography procedures in the systems section expert contributors offer key insights into the systems that are mapped with a multi modality approach covering somatomotor and somatosensory function language vision hearing and memory the book concludes with informative chapters on specific applications of mapping techniques features 350 radiologic images and eeg tracings show each brain mapping technique adding depth and clarity to chapter material multi modal approach focuses on a wide array of clinical concerns and corresponding methods including operative anatomy and structural neuroimaging functional mri and magnetoencephalography optical imaging neuropsychological testing and the wada test extraoperative brain mapping electrocorticographic spectral analysis

from imaging modalities to anesthesia considerations to intraoperative monitoring techniques this introductory text presents a thorough overview of all key concepts for the accurate diagnosis and successful treatment of spinal deformity the authors cover the principles of sagittal and coronal balance and address the role of flexible versus fixed deformity in treatment planning straightforward explanations of

the etiology pathogenesis radiologic and clinical findings differential diagnosis and both surgical and nonoperative treatment options for each disorder provide the reader with the information necessary for handling each clinical situation with confidence highlights more than 400 drawings radiographs and photographs demonstrate pathology of spinal deformities and the techniques to address them coverage of possible anatomical variations of the deformed spine prepares the clinician for managing complex cases discussion of general medical issues including pain management through medication the potential for postoperative pulmonary complications and how to manage metabolic bone disorders a review of the latest technological advances using image guidance and robotics in deformity surgery descriptions of bracing and casting techniques with a brief literature review on outcomes written by a multidisciplinary team of experts this book is invaluable for all beginning and experienced neurosurgeons orthopedic surgeons residents and fellows in those specialties and allied health professionals requiring a comprehensive reference and review cover art illustrator chadi tannoury m d

the one stop guide to microsurgical and endoscopic treatment of skull base lesions from global experts a deep knowledge of regional anatomy improved understanding of pathologies and their behaviors technological advances and multidisciplinary collaboration have led to more effective treatments for once inoperable skull base lesions microsurgical and endoscopic approaches to the skull base anatomy tactics and techniques by renowned skull base neurosurgeons luis a b borba and jean g de oliveira presents a balanced anatomy based perspective on microsurgical and endoscopic approaches to manage these highly challenging lesions the text leverages the best current scientific literature on this topic and insights from global skull base surgery experts organized into 9 sections and 52 chapters the book starts with discussion of microsurgical and endoscopic instrumentation and neurophysiological monitoring the subsequent sections cover diverse approaches for skull base lesions involving the sphenoid and parasellar orbit anterior fossa cavernous sinus temporal bone and jugular foramen and foramen magnum regions each of these sections starts with an introduction followed by a microsurgical description of the anatomy of the impacted region key highlights contributions from an impressive group of internationally renowned neurosurgeons and otolaryngologists specializing in skull base pathologies indications preoperative and postoperative concerns nuances pitfalls tactics techniques and references for further reading provide a comprehensive guide to treatment a stepwise description of the approach high quality four color drawings and illustrative cases facilitate acquisition and retention of knowledge high quality figures provide greater visual insights and step by step guidance on how to perform specific procedures this unique textbook will help residents fellows and practitioners in neurosurgery and otolaryngology make an evidenced based decision on using the most effective microsurgical and or endoscopic

approach to achieve the best outcomes in patients with skull base lesions

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