Minimally Invasive Neurosurgery:

Benefits, Risks, and What to Expect



Minimally Invasive Techniques In Neurosurgery

Huangqi Zhang

Minimally Invasive Techniques In Neurosurgery:

Minimally Invasive Techniques for Neurosurgery Dieter Hellwig, Bernhard L. Bauer, 2012-12-06 A summary of all facets of this new and rapidly developing field in neurosurgery Besides neuroendoscopy the books main topics are neuronavigation functional neurosurgery radiosurgery neurotransplantation and molecular neurosurgery Provides a thorough overview of the state of the art and future perspectives in minimally invasive neurosurgery **Minimally Invasive Techniques in Neurosurgery** Alan Cohen, Stephen J. Haines, 1995 Minimally Invasive Neurosurgery Mark R. Proctor, 2007-11-23 Recognized clinical leaders in neurosurgery and neuroradiology review the cutting edge techniques and technologies now available and describe how minimally invasive techniques have influenced their subspecialties On the radiology side the authors explain the latest developments in magnetic resonance spectroscopy functional imaging and brain mapping with emphasis on the application of image navigation directly in the operating room using both preoperative and intraoperative systems On the surgical side some of the world's leading surgeons in pediatric neurosurgery cerebrovascular surgery neurosurgical oncology spinal and peripheral nerve surgery and trauma surgery detail how they use the powerful new minimally invasive techniques in the own practices Among the novel approaches discussed are radiofrequency radiosurgery thermal therapy and minimally invasive techniques that allow molecular neurosurgery via gene and viral vectors and local delivery systems Minimally Invasive Neurosurgery Mark R. Proctor, Peter McL. Black, 2005-04-14 Recognized clinical leaders in neurosurgery and neuroradiology review the cutting edge techniques and technologies now available and describe how minimally invasive techniques have influenced their subspecialties On the radiology side the authors explain the latest developments in magnetic resonance spectroscopy functional imaging and brain mapping with emphasis on the application of image navigation directly in the operating room using both preoperative and intraoperative systems On the surgical side some of the world's leading surgeons in pediatric neurosurgery cerebrovascular surgery neurosurgical oncology spinal and peripheral nerve surgery and trauma surgery detail how they use the powerful new minimally invasive techniques in the own practices Among the novel approaches discussed are radiofrequency radiosurgery thermal therapy and minimally invasive techniques that allow molecular neurosurgery via gene and viral vectors and local Minimally Invasive Spine Surgery Techniques Gabriel Tender, 2018-03-07 This book includes operative delivery systems videos and teaches the reader how to perform all currently available minimally invasive spine surgery MISS techniques Each chapter covers a MISS procedure and includes an introduction indications and contraindications surgical technique pitfalls and pearls discussion conclusion references videos and figures Minimally Invasive Spine Surgery Techniques is aimed at spine surgeons who are interested in learning or improving their MISS skills Theme issue: Minimally invasive techniques in neurosurgery ,2000 Minimally Invasive Spine Surgery, An Issue of Neurosurgery Clinics of North America Richard G. Fessler, 2014-04-28 This issue of Neurosurgery Clinics of North America is devoted to Minimally Invasive Spine Surgery and

is edited by Zachary A Smith MD and Richard G Fessler MD PhD Articles in this issue include Complications and complication avoidance of minimally invasive spine surgery Radiation exposure risk and avoidance Current techniques in the management of cervical myelopathy and radiculopathy Thoracic disc pathology management through minimally invasive routes Transforaminal Lumbar Interbody fusion Long term outcomes and complications Computer assisted navigation technique for minimally invasive transforaminal lumbar interbody fusion and lateral interbody fusion Safety and the Anatomy of the retroperitoneal lateral corridor Minimally invasive extracavitary transpedicular corpectomy for the management of spinal tumors Minimally invasive anterolateral corpectomy for spinal tumors Minimally invasive approaches for the management of intramedullary spinal tumors Percutaneous fixation of thoracolumbar fractures Advances and feasibility of advanced minimally invasive techniques in deformity correction Direct lateral approach Outcomes and Deformity Correction and Evidence basis and outcomes **Essential Step-by-Step Techniques for Minimally Invasive Spinal Surgery Roger** Hartl, Rodrigo Navarro-Ramirez, 2022-05-27 The ultimate resource for learning and mastering minimally invasive spine surgery techniques An estimated 1 5 million instrumented spinal procedures are performed every year in the US The majority of decompressions and about 50% of fusion procedures can be performed completely or partially using minimally invasive spine surgery MISS techniques The full potential of MISS techniques has yet to be realized Essential Step by Step Techniques for Minimally Invasive Spinal Surgery by internationally renowned MISS neurosurgeon Roger H rtl spine neurosurgeon Rodrigo Navarro Ramirez and an impressive group of global multidisciplinary contributors is the most comprehensive and detailed textbook written to date on this topic The foundation of the book is built on six interacting principles critical to surgical success and MISS in particular Target Technology Technique Teaching and Training Testing and Talent The text starts with an opening chapter on the definition of MISS and introduction of these principles Fifty six subsequent chapters provide a comprehensive discussion on how to utilize an MISS approach for a full spectrum of spinal pathologies using nuanced variations specific to the operating surgeon To ensure readers are well versed in all aspects of MISS these chapters include painstaking details on indications contraindications pathoanatomy operating room set up step by step techniques and postoperative management Key Highlights Contributions from master spine surgeons across the world provide a balanced global perspective on mastering and incorporating diverse techniques into practice Invaluable clinical pearls including tips tricks and complication avoidance High quality images figures anatomic drawings and imaging studies illustrate relevant anatomic approaches and corridors and delineate why anatomic mastery is critical to MISS Twenty five videos enhance the ability to learn and implement MISS approaches This is a must have resource for practicing spine surgeons interested in MISS who wish to learn the latest techniques from master surgeons and achieve optimal patient outcomes The text and videos also provide a robust training tool for senior level orthopaedic and neurosurgery residents and spine fellows Neuroendoscopy Spyros Sgouros, 2013-11-22 As a result of technological improvements neuroendoscopy is

now used in the treatment of many more patients enabling the performance of previously unavailable operations with low complication rates and rapid patient recovery This book presents the distilled experience of world experts in this evolving field Current applications in a wide variety of settings are explained in detail and likely future developments are identified In addition the available neuroendoscopic instruments are reviewed and the results of international trials and collaborative studies presented This book will fully acquaint the reader with the breadth and depth of available neuroendoscopy techniques and their impressive therapeutic potential It should serve as the reference book on neuroendoscopy for the next Schmidek and Sweet: Operative Neurosurgical Techniques E-Book Alfredo Quinones-Hinojosa, 2012-05-10 Wherever whenever or however you need it unmatched procedural guidance is at your fingertips with the new edition of Schmidek surgical management of blast injuries invasive electrophysiology in functional neurosurgery and interventional management of cerebral aneurysms and arterio venous malformations Take it with you anywhere Access the full text downloadable image library video clips and more at www expertconsult com **Advances in Minimally Invasive Surgery** and Therapy for Spine and Nerves Alberto Alexandre, Marcos Masini, Pier Paolo Maria Menchetti, 2010-11-25 Radiologists orthopedic and neurological surgeons present the different minimally invasive methods Peripheral nerve problems and problems concerning differential diagnosis in special situations such as between radicular and peripheral nerve trunk lesions are discussed pinpointing the significance of different diagnostic tools Minimally invasive techniques utilized nowadays to minimize bone demolition scarring and risk of recurrence are analyzed Microdiscectomy is compared with the results of intradiscal techniques and new methods are discussed facing problems such as epidural fibrotisation microinstability osteoporotic or neoplastic or posttraumatic vertebral lesions Schmidek and Sweet: Operative Neurosurgical Techniques 2-Volume Set Alfredo Quinones-Hinojosa, MD, FAANS, FACS, 2012-06-22 Wherever whenever or however you need it unmatched procedural guidance is at your fingertips with the new edition of Schmidek surgical management of blast injuries invasive electrophysiology in functional neurosurgery and interventional management of cerebral aneurysms and arterio venous malformations Take it with you anywhere Access the full text downloadable image library video clips and more at www expertconsult com With 337 additional expert contributors Get procedural guidance on the latest neurosurgical operative techniques from Schmidek Sweet on your shelf laptop and mobile device **Contemporary Surgical** Innovations: A Comprehensive Guide to Emerging Technologies and Practices Aliasghar Tabatabaei Mohammadi, Younes Keihani Far, Rasoul Hossein Zadeh, Sadegh Bagherzadeh, Melika Karamouz, Pouya Yektaee, Amirali Kamyab Rajabi, Touraj Poursadegh Sofiani, Mitra Razmi, Sahar Mehranfar, Zhaleh Zeinaly, Reza Hossein Zadeh, Seyed Mohammad Ali Fazayel, Erfan Ghanbarzadeh, Pourya Bagherian Kenari, Sakineh Aghazadeh, Aida Ghasemi Jirdehi, 2024-11-01 Chapters Chapter 1 Evidenced based unveiling the new roots of Cosmetic and Bariatric Surgery Association of Food Addiction Obsession and Binge Eating Disorder with deficits in Emotional Self Regulation among women seeking Cosmetic

and Bariatric Surgery Chapter 2 The Rise of Robotics Robotic Assisted General Surgery Chapter 3 Minimally Invasive Techniques in Neurosurgery Chapter 4 Augmenting Surgical Intelligence The Role of Artificial Intelligence in Surgery Chapter 5 Pushing the Boundaries of Minimally Invasive Surgery Advancements in Laparoscopy and Robotics Chapter 6 Virtual Reality Enters the Operating Room VR Simulation for Surgical Training and Education Chapter 7 Bridging Geographical Barriers Tele surgery and its Implications for Global Healthcare Chapter 8 The Dawn of Precision Surgery Personalized Medicine in the Operating Room Chapter 9 From Research to Reality Translational Surgery and its Impact on **Key Concepts in MIN -**Clinical Practice Chapter 10 Neuro oncology New Frontiers in Brain Tumor Treatment **Intracerebral Hemorrhage Evacuation** Klaus Dieter Maria Resch, 2020-12-14 This is the first of four volumes that together elaborate on an advanced minimally invasive neurosurgery MIN technique for cerebral hemorrhages which makes it possible to prevent secondary injury by the hematoma and to preserve neurological function and accelerate neuropsychological recovery after the evacuation It describes in detail the theoretical technical and training procedures necessary to carry out successful intracerebral hemorrhage evacuations using MIN techniques A combination of mouth tracked microsurgery neuro sonography neuro endoscopy LASER and sealing makes highly effective minimally invasive evacuation of all types of hematomas possible The MIN Key Concept an advanced new model based on the Keyhole Concept and MIN techniques is also presented Lastly the scientific basics of MIN are discussed and summarized A historical curriculum vitae is included in memory of the main pioneer of innovative MIN techniques Prof Axel Perneczky to whom this book is dedicated Invasive Spine Surgery: An Algorithmic Approach Kern Singh, 2013-12-15 This book Minimally Invasive Spine Surgery An Algorithmic Approach is organized in a logical fashion with an introduction clinical evaluation intraoperative positioning surgical techniques potential pitfalls and pearls of treatment and discussion This book has written extremely well known surgeons who are experts in their respective fields of minimally invasive surgery. This textbook attempts to formally describe a simple to understand decision making process that is the essence of minimally invasive surgery The chapters of this book are organized in a very technique focused text that provides intraoperative pearls pitfalls and technical descriptions The reader can quickly review the decision making algorithm at the beginning of each chapter and read the text for a more detailed description of the decision making surgical process Readers will enjoy a high level sophistication with the text The remainder of the chapter is devoted to the surgical pearls that are rarely mentioned in other surgical textbooks All aspects of minimally invasive spine surgery are covered especially special topics including Tumor Trauma and Deformity Routine procedures are covered in detail with particular emphasis given to surgical nuances and pearls learned from experienced MIS spine surgeons All levels of experience will truly appreciate the detail clarity and sophistication associated with this comprehensive MIS Spine Surgery algorithmic textbook Make this book well suited for medical students residents fellows and surgeons who not only want to be introduced to a new method of surgical management but also to refresh an

experienced surgeon on a particular surgical technique Transendoscopic Ultrasound for Neurosurgery Klaus Dieter Maria Resch, 2005-12-29 The new technique is explained in a simple language in detail Furthermore Resch provides a guide to the necessary equipment 50 typical neurosurgical indications are presented comparing both real anatomical endoscopic pictures of the lesion and its immediate environment to endosonographic images of the same Includes chapter on the outlook and future concepts on minimally invasive neurosurgery Minimally Invasive Spine Surgery Frank M. Phillips, Isador H. Lieberman, David W. Polly Jr., Michael Y. Wang, 2020-01-13 The use of minimally invasive spine surgery MISS has grown rapidly over the last decade and remains the fastest growing area in spine surgery Now in a revised and expanded second edition including 19 new chapters this comprehensive textbook provides an updated presentation of the field of MISS highlighting surgical techniques and clinical outcomes as well as providing a unique focus on how these techniques are applied for specific spinal conditions Minimally Invasive Spine Surgery Second Edition includes detailed discussions of enabling technologies surgical techniques approaches to specific diseases and conditions a new section on out patient ambulatory spine surgery and strategies to manage the unique risks and complications associated with MISS Each chapter whether revised or new is formatted in a consistent manner including bulleted key learning points as well as review questions pearls and pitfalls and generous illustrations and intra operative photographs Written and edited by thought leaders in the field this user friendly textbook will be an essential resource for orthopedic and neurosurgery trainees as well as a valuable reference and review for spine surgeons and health care professionals who treat the spine **Hydrocephalus** G. Cinalli, W.J. Maixner, C. Sainte-Rose, 2012-12-06 In the last ten years the pediatric neurosurgeon has witnessed a real revolution in the diagnosis and treatment of pediatric hydrocephalus the most frequently encountered condition in everyday clinical practice The evolution of MRI and the advent of neuroendoscopic surgery have resuscitated the interest in the classification etiology and pathophysiology of hydrocephalus The book offers an updated overview on the recent progress in this field and a new approach to hydrocephalus the reader will find in it a modern and new presentation of an old disease where genetics endoscopy cost effectiveness analyses and many other aspects of the various therapies are extensively discussed The volume will be useful not only for neurosurgeons but for all specialists interested in the various aspects of hydrocephalus pediatricians radiologists endocrinologists pathologists and geneticists Cottrell and Young's Neuroanesthesia James E. Cottrell, William L. Young, 2016-10-24 Cottrell's Neuroanesthesia 5th Edition edited by James E Cottrell MD FRCA and William L Young MD delivers the complete and authoritative guidance you need to ensure optimal perioperative safety for neurosurgical patients Integrating current scientific principles with the newest clinical applications it not only explains what to do under any set of circumstances but also why to do it and how to avoid complications Comprehensive updates reflect all of the latest developments in neurosurgical anesthesia and contributions from many new experts provide fresh insights into overcoming tough clinical challenges New co editor William L Young MD joins James E

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