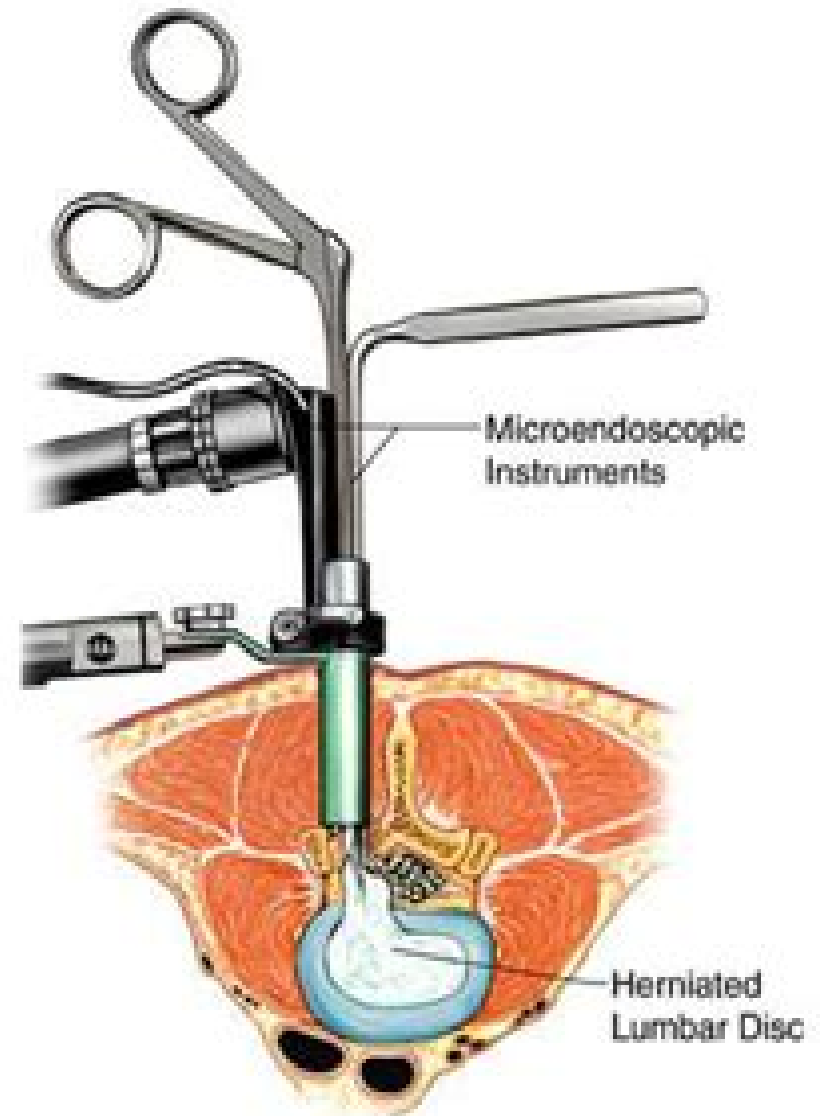
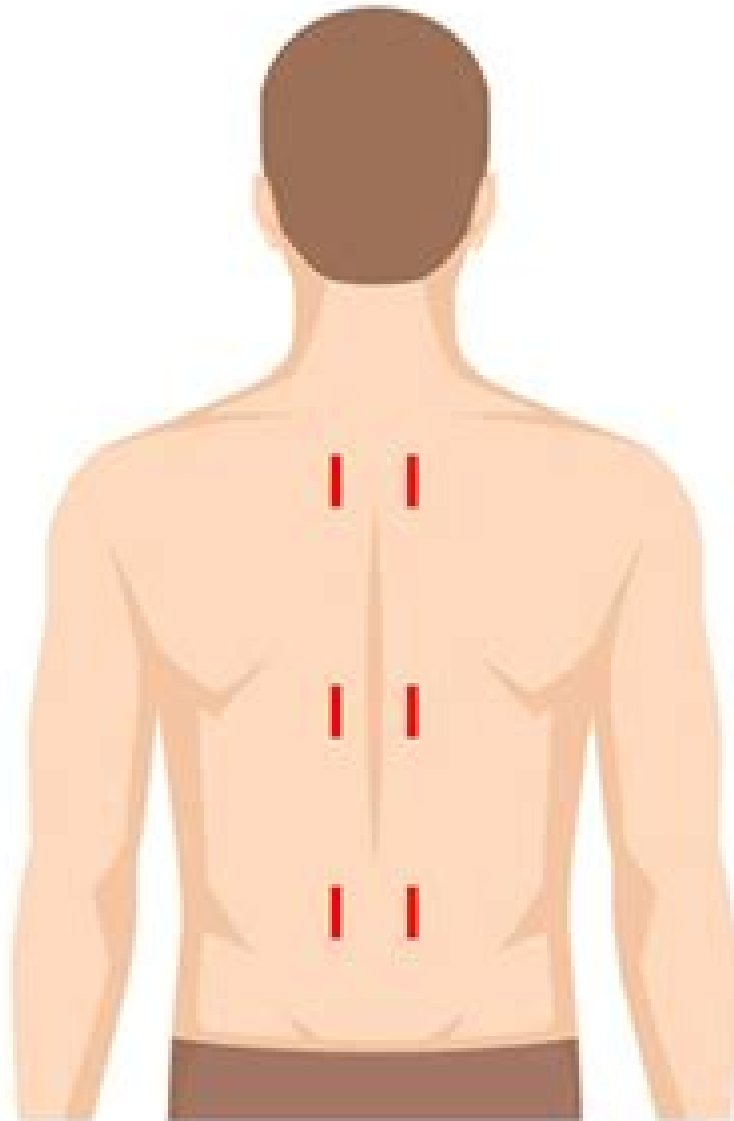


MINIMALLY INVASIVE SPINE SURGERY



Minimally Invasive Spine Surgery Minimally Invasive Spine Surgery

Mick J. Perez-Cruet



Minimally Invasive Spine Surgery Minimally Invasive Spine Surgery:

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 Hartl 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

Minimally Invasive Spine Surgery - Techniques, Evidence, and Controversies Roger Haertl, Andreas Korge, 2012-12-12 Minimally invasive spine surgery in some form or other has historical roots dating back more than 100 years and recent advances in technology now make it increasingly effective in treating suitable spine patients While minimally invasive approaches have shown to reduce muscle damage blood loss and post operative pain to perform this type of surgery correctly even highly skilled modern day surgeons must prepare themselves for a demanding learning curve For this reason AOSpine proudly presents Minimally Invasive Spine Surgery Techniques Evidence and Controversies the most comprehensive book of its kind which includes more than 500 pages of surgical techniques illustrations case images tips and tricks and research providing an invaluable tool for spine surgeons around the world Each technique is fully examined The pros and cons of each is objectively reviewed Its spectrum of indications and contraindications is summarized Historical and modern day controversies relating to each

technique are discussed. Uniquely, chapters in the text are further supported by an evidence-based section summarizing research studies, analysis, and conclusions into each technique from peer-reviewed journals. The text covers more than just a range of interesting medical techniques. By including brief historical introductions on each technique and the surgeons that explored and founded its methods, their early, sometimes self-made instrumentation, right through to today's current best practice, this book provides an interesting, informative, and topical instruction on minimally invasive surgery and its

increasingly encouraging results for spine patient care. **Lateral Access Minimally Invasive Spine Surgery** Michael Y. Wang, Andrew A. Sama, Juan S. Uribe, 2016-11-26. This well-illustrated textbook is the first comprehensive and authoritative source of information on minimally invasive lateral access spine surgery. It covers all aspects of the subject, including patient selection, approach, and monitoring techniques, soft tissue management, application in a variety of pathologies, technical nuances, and the prevention and management of complications. In addition, current controversies in the field are discussed, and the biomechanics of lateral spinal reconstruction, the physiologic benefits, and cost implications are explained. As use of the lateral approach in spinal surgery has become more popular, so its diversity and complexity have increased. Nevertheless, publications devoted entirely to the technique are lacking, and *Lateral Access Minimally Invasive Spine Surgery* is designed to fill this vacuum. Written by the world's experts on the topic, it will be an excellent resource for both beginning and experienced surgeons. *Minimally Invasive Spinal Surgery* Kai-Uwe Lewandrowski, Michael Schubert, Jorge F. Ramírez León, Richard G. Fessler, 2018-03-13. This book provides a timely, comprehensive, and evidence-based review of minimally

invasive surgery of the cervical, thoracic, and lumbar spine. Minimally invasive techniques are now aided by more advanced endoscopic instruments, video, and computerized navigation systems, broadening the range of surgical procedures that can be carried out with similar efficacy as traditional open spinal surgeries, without the significant burden on the patient's recovery and rehabilitation. This book thoroughly reviews the preclinical and clinical data on minimally invasive spinal surgery and describes and illustrates the current effective techniques. An authoritative international team of contributors add their clinical experience and expertise to provide a clear, authoritative, and practical guide. The book is organized in four sections covering cervical, thoracic, and lumbar spine regions, with a final section on the latest advances in technologies and the cost effectiveness of current treatments.

Minimally Invasive Spine Surgery Luis Manuel Tumialán, 2020-10-01. Unique resource provides spine surgeons with the right tools and mindset to perform minimally invasive surgery. *Minimally Invasive Spine Surgery: A Primer* by Luis Manuel Tumialán is the ideal introduction to minimally invasive spine approaches, especially for neurosurgery and orthopedic residents, fellows, and spine surgeons who want to incorporate minimally invasive approaches into their practice. The Primer offers a treasure trove of 3D illustrations and animations that virtually brings the aspiring minimally invasive spine surgeon into the operating room alongside their professor. The text starts with a discussion of open spine surgery versus minimally invasive procedures and the optimal mindset required to convert from one to the

other The book is divided into lumbar cervical and thoracic spine sections and a fourth section dedicated to the fundamentals of fluoroscopy and radiation exposure The text begins with an overview history and evolution of each procedure followed by a discussion of the anatomical basis for using a minimally invasive approach Each anatomical section starts with the least complicated surgeries thereby laying the foundation for more complex procedures discussed in subsequent chapters The third section focuses on thoracic decompression nerve sheath tumors in the lumbar and thoracic spine and management of metastatic disease and intradural extramedullary lesions Key Features Single authored text provides uniform readability and philosophy cover to cover Lumbar approaches include microdiscectomy laminectomy transforaminal interbody fusions and the transpsoas approach Cervical procedures encompass posterior foraminotomy laminectomy and anterior discectomy Superb illustrations high fidelity anatomical animations based on computer modeling and procedural videos enhance understanding of minimally invasive spine principles This unique single author Primer is a must have resource for early career spine surgeons who wish to learn minimally invasive principles as well as veteran surgeons who have a desire to incorporate minimally invasive spine surgery into clinical practice *Core Techniques of Minimally Invasive Spine Surgery* Yong Ahn, Jin-Kyu Park, Chun-Kun Park, 2023-06-19 This book issues all aspects of minimally invasive spine surgery From interventional techniques such as nerve block to multilevel fusion surgery the field of minimally invasive surgery is organized by chapter from basics to the end Each chapter will include various figures and tables and videos will be added in the surgery related parts A special focus will be placed on spinal endoscopic surgery which has undergone rapid development in recent years Both full endoscopic spine surgery and uni portal bilateral endoscopic will be dealt Various surgical approaches and procedures will be presented for disc herniated disease and stenotic lesion from cervical to lumbar The new technology solution such as navigation guided spine surgery and robot surgery and artificial and augmented reality will be introduced

Minimally Invasive Spine Surgery Frank Phillips, Isador Lieberman, David Polly, 2014-06-23 Over the past decade minimally invasive techniques have developed rapidly and are widely applied in the management of spine disorders With the development of enabling technologies including specifically designed spinal retractor systems intraoperative imaging and navigation technologies and real time neural monitoring minimally invasive spine surgery MISS techniques are safe effective and reproducible Indeed studies have confirmed the clinical and economic advantages of these procedures Minimally Invasive Spine Surgery includes detailed discussions of enabling technologies surgical techniques including posterior decompression and fusion approaches to specific diseases and conditions as well as strategies to manage the unique risks and complications of MISS Generously illustrated this will be an essential reference for orthopedic surgeons neurosurgeons and all health care professionals who treat the spine **Minimally Invasive Spine Surgery** Chadi Tannoury, 2017-04-24 The field of spine surgery is in a state of flux with minimally invasive and open surgical procedures vying for dominance A new volume in the Minimally Invasive Orthopaedic Surgery series Minimally Invasive Spine Surgery weighs the pros and

cons of today's open versus minimally invasive techniques allowing you to choose the approaches that will best meet your patients needs In each chapter accomplished experts describe the advantages indications setup technical aspects and problem areas associated with a given minimally invasive procedure including critiques from surgeons who favor a standard open approach to give you a balanced objective foundation for surgical decision making

Instrumentation for Minimally Invasive Spine Surgery Kern Singh, 2020-12-09 The quintessential guide to state of the art instrumentation in minimally invasive spine surgery In recent decades technological innovations in minimally invasive surgery MIS have revolutionized spine surgery The integration of devices tailored to MIS spine techniques has allowed spine surgeons to tackle more complex spinal pathologies and generate new ways to improve clinical outcomes Instrumentation for Minimally Invasive Spine Surgery by renowned orthopaedic surgeon Kern Singh and esteemed collaborators provides practical evidence based insights into important surgical decisions spine surgeons face every day The primary goal of this book is to help spine surgeons navigate a daunting number of available devices and leverage the optimal ones to achieve improved patient outcomes Organized in 3 parts and 16 chapters the text starts with the past present and future of MIS spinal instrumentation The first two parts detail cutting edge posterior and lateral approaches with discussion of required devices The final part covers percutaneous cement augmentation biologics and navigation systems The text combines a thorough review of empirical literature with expert experience and manufacturer specifications to elucidate the advantages and capabilities of currently available instrumentation Key Highlights Discussion of commonly used MIS spinal instrumentation including retractors percutaneous pedicle cortical and facet screw systems interbody cages and fixation systems Concise yet in depth technical descriptions include an introduction and potential complications followed by design features modular aspects applicable procedures and compatible devices for each type High quality detailed images provide greater understanding of techniques This unique book is an essential surgical companion for orthopaedic and neurosurgical residents and fellows as well as spine surgeons who wish to incorporate MIS techniques into clinical practice

Decision Making for Minimally Invasive Spine Surgery Faheem A. Sandhu, Jean-Marc Voyadzis, Richard Glenn Fessler, 2011-01-06 The essential decision making primer for minimally invasive spine procedures Decision Making for Minimally Invasive Spine Surgery provides the critical tools needed to determine exactly when for whom and why minimally invasive spine surgery MISS is a viable option Ten tightly focused chapters each begin with a decision making algorithm that explains how to ascertain if MISS will benefit the patient more than traditional open surgery Following each algorithm concise yet detailed information on the preoperative evaluation surgical techniques and possible outcomes helps the reader to formulate a clear surgical strategy The book closes with an incisive analysis of radiosurgery instrumentation systems image guidance and promising advances in MISS that will stimulate further discussion of this emerging area Features A realistic assessment of both the advantages and drawbacks of MISS by pioneers in the field Evaluative algorithms allow readers to form rapid fully informed treatment decisions Intuitive

organization by spinal region facilitates quick reference Spine surgeons residents or fellows in orthopedic surgery or neurosurgery will refer to this easily accessible manual every time they consider performing a minimally invasive spine procedure

Minimally Invasive Spine Fusion Mick J. Perez-Cruet, 2011 Minimally Invasive Spine Fusion Techniques and Operative Nuances provides spine surgeons with the comprehensive information they need to incorporate minimally invasive fusion techniques and instrumentation into their practices Edited and authored by the experts in spine surgery this comprehensive publication is filled with detailed clinical information to help the spine surgeon skillfully execute these procedures Every technique is described in precise step by step fashion and incorporates information on preoperative assessment and planning treatment options operative technique potential complications and management outcome data and tips and tricks Beautiful color illustrations and intraoperative photos highlight the key steps for performing these techniques safely and effectively Numerous preoperative and postoperative images demonstrate the possible results that can be achieved Instrumentation monitoring outcome analysis and complications are also discussed in detail To enhance the learning experience two DVDs with operative video are available for purchase For experienced spine surgeons or for those spine surgeons wishing to expand their practices to include minimally invasive techniques this book is a must No other source provides so much sound practical advice or such complete coverage

Minimally Invasive Spine Surgery Burak Ozgur, Edward Benzel, Steven Garfin, 2009-10-08 Minimally Invasive Spine Surgery is a beautifully illustrated atlas describing the 18 most widely accepted minimally invasive procedures in spine surgery Written by leaders in both neurologic and orthopedic spine surgery this book offers the most up to date material and the broadest perspective on the subject Procedures range from simple to complex and cover the cervical thoracic and lumbar regions of the spine

Minimally Invasive Spine Surgery H. Michael Mayer, 2006-01-26 Don't miss it The second completely revised and expanded edition of the successful surgical manual on minimally invasive spine surgery includes 51 chapters including more than 20 new chapters covering all current minimally invasive techniques in spine surgery A complete survey of all microsurgical and endoscopic techniques with a special focus on semi invasive injection techniques for diagnostic and therapeutic purposes in low back pain is given The clear chapter structure with terminology history surgical principles advantages disadvantages indications access principles complications and results facilitates navigation through the manual Topics include the principles of microsurgical and endoscopic treatment spinal navigation and computer assisted surgery minimally invasive reconstruction fusion dynamic stabilization in fractures degenerative disc disease spinal stenosis low back pain and deformities The didactic presentation of surgical steps makes the reader familiar with all types of new minimally invasive techniques in clinical use or still in ongoing clinical trials such as minimally invasive spine arthroplasty

State of the Art for Minimally Invasive Spine Surgery A. Dezawa, P.-Q. Chen, J.-Y. Chung, 2006-03-20 The second congress of the Pacific Asian Society of Minimally Invasive Spine Surgery PASMISS held in Phuket Thailand August 5-6 2002 was highly successful Dr Akira

Dr. DeZawa the president had worked hard in organizing the congress which was well attended. All scientific papers presented were of the highest standard and were worthy of publication in book form. This scientific meeting brought to light the practice of this modern surgical technique as it is being performed by spine surgeons in the Asia Pacific region. Dr. DeZawa has made a great effort to collect the papers from the congress and to have them edited and published as a text that covers all aspects of the minimally invasive spine surgical approach. Minimally invasive spinal surgery will be a highlight of operative approaches in the twenty-first century and already has been popularized worldwide. This procedure will provide surgical options that address several pathological conditions in the spinal column without producing the types of morbidity commonly seen in open surgical procedures. The contents of this book provide highly relevant and detailed information. I certainly believe that it will be a great benefit to all orthopedic surgeons who are interested in performing minimally invasive spine surgery.

Charoen Chotigavanich M.D. Chairman Spinal Section The Royal College of Orthopedic Surgeons of Thailand

V Preface Recent decades have been characterized by revolutionary changes in spinal surgery. Concurrent progress in implant technology and functional endoscopes and the improvement of less invasive surgical techniques has opened a new dimension for spine surgery.

Minimally Invasive Spine Surgery Luis Manuel Tumialan, 2020-10-01. Unique resource provides spine surgeons with the right tools and mindset to perform minimally invasive surgery.

Minimally Invasive Spine Surgery: A Primer by Luis Manuel Tumialan is the ideal introduction to minimally invasive spine approaches especially for neurosurgery and orthopedic residents, fellows, and spine surgeons who want to incorporate minimally invasive approaches into their practice. The Primer offers a treasure trove of 3D illustrations and animations that virtually brings the aspiring minimally invasive spine surgeon into the operating room alongside their professor. The text starts with a discussion of open spine surgery versus minimally invasive procedures and the optimal mindset required to convert from one to the other. The book is divided into lumbar, cervical, and thoracic spine sections and a fourth section dedicated to the fundamentals of fluoroscopy and radiation exposure. The text begins with an overview history and evolution of each procedure followed by a discussion of the anatomical basis for using a minimally invasive approach. Each anatomical section starts with the least complicated surgeries thereby laying the foundation for more complex procedures discussed in subsequent chapters. The third section focuses on thoracic decompression, nerve sheath tumors in the lumbar and thoracic spine, and management of metastatic disease and intradural extramedullary lesions.

Key Features: Single authored text provides uniform readability and philosophy. Covers lumbar approaches including microdiscectomy, laminectomy, transforaminal interbody fusions, and the transposas approach. Cervical procedures encompass posterior foraminotomy, laminectomy, and anterior discectomy. Superb illustrations, high fidelity anatomical animations based on computer modeling, and procedural videos enhance understanding of minimally invasive spine principles. This unique single author Primer is a must-have resource for early career spine surgeons who wish to learn minimally invasive principles as well as veteran surgeons who have a desire to incorporate minimally invasive spine surgery.

into clinical practice Minimally Invasive Spine Surgery Mick J. Perez-Cruet,2022 Minimally Invasive Spine Surgery Arvind Kulkarni,2018-02-28 This book is a complete review of the indications techniques and outcomes of minimally invasive spine surgery MISS for neuro and orthopaedic surgeons Divided into seven sections the text begins with an overview of the fundamentals of MISS explaining the development of techniques anatomy and imaging The next chapters cover MISS for numerous disorders in both the cervical and lumbar spine followed by sections on surgery for tumours infections and osteoporosis and pain management The book concludes with discussion on recent advances in the field of MISS including robotics The comprehensive text is highly illustrated with nearly 400 surgical images and tables Key points Comprehensive review of minimally invasive spine surgery MISS In depth discussion on procedures for cervical and lumbar spine disorders Covers recent advances in MISS including robotics Highly illustrated with nearly 400 surgical images and tables

Minimally Invasive Spine Surgery Alexander R. Vaccaro,Christopher M. Bono,2007-05-22 Minimally invasive procedures are increasingly utilized and are replacing open surgery to reduce scarring and pain enhance patient recovery and minimize cost Minimally Invasive Spine Surgery provides step by step guidance expert instruction and detailed illustration of current minimally invasive orthopedic spine procedures With a variety of c **State of the Art for Minimally Invasive Spine Surgery** A. Dezawa,P.-Q. Chen,J.-Y. Chung,2009-09-03 The second congress of the Paci c Asian Society of Minimally Invasive Spine Surgery PASMIS held in Phuket Thailand August 5 6 2002 was highly s ccessful Dr Akira Dezawa the president had worked hard in organizing the congress which was well attended All scienti c papers presented were of the highest standard and were worthy of publication in book form This scienti c meeting brought to light the practice of this modern surgical technique as it is being performed by spine surgeons in the Asia Paci c region Dr Dezawa has made a great effort to collect the papers from the congress and to have them edited and published as a text that covers all aspects of the minimally invasive spine surgical approach Minimally invasive spinal surgery will be a highlight of operative approaches in the twenty rst century and already has been popularized worldwide This procedure will provide surgical options that address several pathological conditions in the spinal column without producing the types of morbidity commonly seen in open surgical procedures The contents of this book provide highly relevant and detailed information I certainly believe that it will be a great bene t to all orthopedic surgeons who are interested in performing minimally invasive spine surgery Charoen Chotigavanich M D Chairman Spinal Section The Royal College of Orthopedic Surgeons of Thailand V Preface Recent decades have been characterized by revolutionary changes in spinal surgery Concurrent progress in implant technology and functional en scopes and the improvement of less invasive surgical techniques has opened a new dimension for spine surgery

Minimally Invasive Spine Surgery Techniques Gabriel Tender,2018-03-07 This book includes operative 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

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