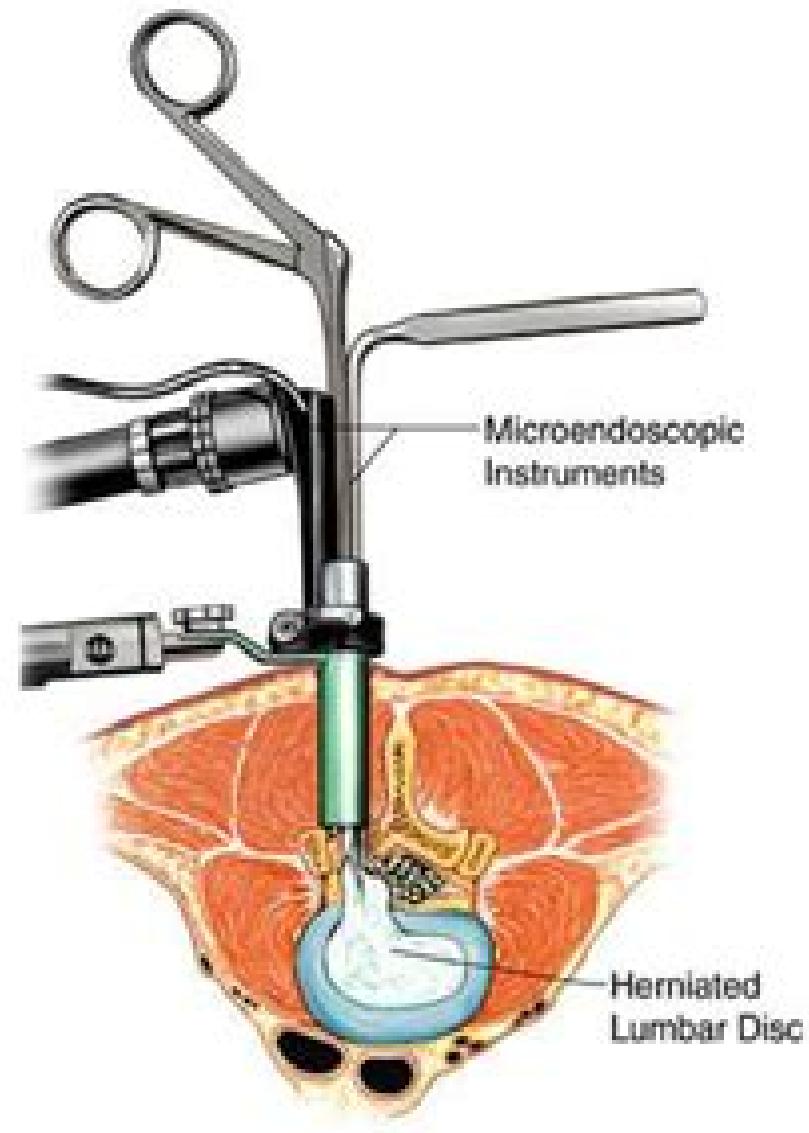
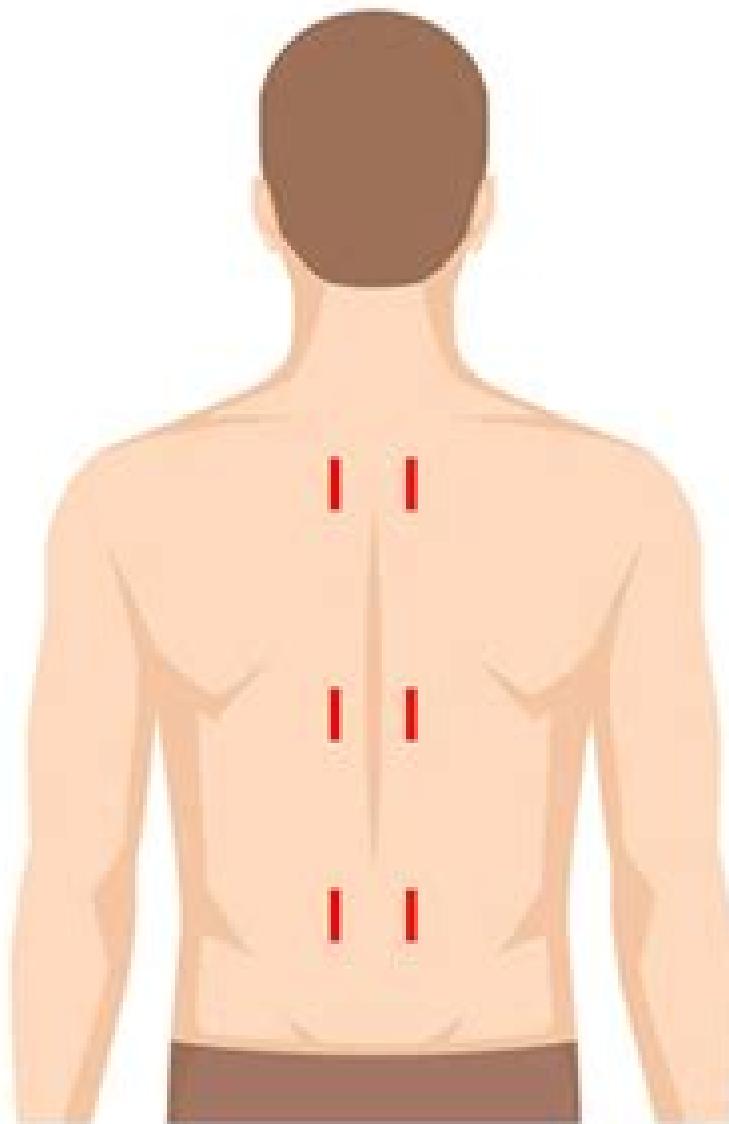


# MINIMALLY INVASIVE SPINE SURGERY



# Minimally Invasive Spine Surgery Minimally Invasive Procedures In Orthopaedic Surgery

**Uwe Vieweg, Frank Grotzulla**

## **Minimally Invasive Spine Surgery Minimally Invasive Procedures In Orthopaedic Surgery:**

*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 *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

**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 *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* 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 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.

*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.

*Minimally Invasive Spine Surgery* Kern Singh, Alexander Vaccaro, 2015-08-31. Minimally Invasive Spine Surgery combines up-to-date research on surgical techniques with high-definition surgical video and concise algorithmic evidence. Each of its sixteen chapters begins with a brief summary followed by imaging, indications, instrumentation, a step-by-step surgical technique, and video guide, as well as the potential complications and adverse outcomes that may develop. Techniques discussed in the text include Posterior Cervical Foraminotomy, Percutaneous Posterior Pedicle Screw Placement, Lumbar

Discectomy Transforaminal Lumbar Interbody Fusion TLIF Lateral Lumbar Interbody Fusion LLIF Also included is a discussion on the types of implants and instrumentation available today and the potential advantages they offer making Minimally Invasive Spine Surgery an essential and relevant book for orthopaedic and neurosurgeons Key Points Authored by experts from Rush University Medical Centre and Thomas Jefferson University Hospital in the United States Includes DVD to enhance clinical instruction 273 full colour illustrations

**Minimally Invasive Surgery of the Lumbar Spine** Pier Paolo

Maria Menchetti,2013-10-01 Minimally invasive procedures are increasingly utilized and are replacing open surgery to reduce scarring and pain enhance patient recovery and minimize cost This guide provides step by step guidance expert instruction and detailed illustration of the most recent minimally invasive orthopedic spine procedures With a variety of chapters covering critical developments in the field including the utilization of biologic materials image guided surgery and bone fusion this guide delves into discussions of indications methods for preoperative planning complication avoidance strategies and patient outcomes

**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

*Technical Advances in Minimally Invasive Spine Surgery* Jin-Sung Kim,Roger Härtl,Michael Y. Wang,Adrian Elmi-Terander,2022-06-15 This book is a comprehensive guide to

the application of recently introduced and emerging technologies in minimally invasive spine surgery MISS These technologies including 2D and 3D navigation endoscopy virtual and augmented reality robotics and 3D printing are helping to overcome previous limitations of MISS such as the steep learning curve and the need for a great deal of experience in order to achieve optimal outcomes Compared with traditional techniques their use is designed to reduce local operative tissue damage alleviate systemic surgical stress and enable earlier return to function The book provides detailed and extensively illustrated accounts of the role of the new technologies and techniques in a wide range of indications In essence all spine conditions whether degenerative traumatic or oncologic will in the near future be amenable to MISS using these approaches The book will be a source of insight and practical assistance for all surgeons who perform MISS regardless of their level of experience

**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 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 *Decision Making for Minimally Invasive Spine Surgery* Faheem A. Sandhu,Jean-Marc Voyatzis,Richard G. 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 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 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

**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 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 end scopes and the improvement of less invasive surgical techniques has opened a new dimension for spine surgery *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 Pacific Asian Society of Minimally Invasive Spine Surgery PASMISS held in Phuket Thailand August 5-6 2002 was highly successful Dr Akira 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 end scopes and the improvement of less invasive surgical techniques has opened a new dimension for spine surgery *Manual of Spine Surgery* Uwe Vieweg, Frank

Grochulla, 2023-10-16 This manual has been compiled in response to the rapid expansion of instrumented spinal surgery using minimally invasive and non-fusion techniques with a view to meeting the needs of spinal surgeons orthopaedic and neurosurgeons The various open and less invasive and minimally invasive techniques are presented step by step in a clear and instructive way with the aid of more than 600 high quality illustrations Careful attention is paid to all aspects vital to the success of any spinal operation precise definition of indications and contraindications technical and organizational factors good operating technique and correct preoperative preparation and positioning of the patient This second edition of the manual takes full account of the latest developments in spinal instrumentation and implants and new surgical techniques It is authoritative concise and portable ideal for use in a fast paced clinical setting and will serve as a daily companion for spinal surgeons and others who care for patients with spinal disorders ***State of the Art for Minimally Invasive Spine Surgery*** A. Dezawa, P.-Q. Chen, J.-Y. Chung, 2004-12-03 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 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.

**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.

**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

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## **Minimally Invasive Spine Surgery Minimally Invasive Procedures In Orthopaedic Surgery Introduction**

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