

BURAK OZGUR
EDWARD BENZEL
STEVEN GARFIN
EDITORS

Minimally Invasive Spine Surgery

A Practical Guide
to Anatomy and
Techniques

 Springer

Minimally Invasive Spine Surgery A Practical Guide To Anatomy And Techniques

Minjie Lin



Minimally Invasive Spine Surgery A Practical Guide To Anatomy And Techniques:

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 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 - 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 todays 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

Video Atlas of Spine Surgical Techniques Federico A. Landriel, Eduardo Vecchi, 2016-05-04 This video atlas covers a broad range of spinal surgical procedures The volume includes a collection of high quality 3 to 8 minute videos of some of the most critical spine operations performed by internationally renowned expert surgeons Key features of the book contents include

- o Downloadable high quality video content with subtitles suitable for viewing on any display A brief preview of the book content can be viewed at <https://www.youtube.com/watch?v=SxMi4UFj7HA>
- o Detailed descriptions of surgical indications preoperative planning patient positioning surgical technique complications postoperative care and outcomes for each procedure
- o Full color images and illustrations highlighting different key stages of each surgical technique

The video format allows skill development of its intended audience by conveying temporal and spatial details which often go unnoticed in photograph format This volume will be of immense interest to both the novice and the experienced spinal surgeon as they can benefit from the visual guides presented in the book It also serves as an ideal teaching tool for spine surgery units in medical schools

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 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

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

Benzel's Spine Surgery E-Book Michael P Steinmetz, Edward C. Benzel, 2016-06-29 In the latest edition of Benzel's Spine Surgery renowned neurosurgery authority Dr Edward C Benzel along with new editor Dr Michael P Steinmetz deliver the most up to date information available on every aspect of spine surgery Improved visuals and over 100 brand new illustrations enhance your understanding of the text while 26 new chapters cover today's hot topics in the field A must have resource for every neurosurgeon and orthopedic spine surgeon Benzel's Spine Surgery provides the expert step by step guidance required for successful surgical outcomes Glean essential up to date information in one comprehensive reference that explores the full spectrum of techniques used in spine surgery Covers today's hot topics in spine surgery such as pelvic parameters in planning for lumbar fusion minimally invasive strategies for the treatment of tumors and trauma of the spine and biologics and stem cells A total of 18 intraoperative videos allow you to hone your skills and techniques New editor Michael P Steinmetz brings fresh insights and improvements to the text Features the addition of 26 chapters including Biologics in Spine Fusion Surgery Endoscopic and Transnasal Approaches

to the Craniocervical Junction Cellular Injection Techniques for Discogenic Pain Minimally Invasive Techniques for Thoracolumbar Deformity Spinal Cord Herniation and Spontaneous Cerebrospinal Fluid Leak MIS Versus Open Spine Surgery Extensive revisions to many of the existing chapters present all of the most up to date information available on every aspect of spine surgery Improved visuals and over 100 brand new illustrations enhance learning and retention Neuro Spinal Surgery Operative Techniques: Anterior Cervical Discectomy and Fusion JKBC Parthiban, 2016-01-10 Neuro Spinal Surgery Operative Techniques Anterior Cervical Discectomy and Fusion is the latest book in the Neuro Spinal Surgery Operative Techniques series This book covers Anterior Cervical Discectomy and Fusion ACDF in eight concise chapters This surgical procedure involves decompressing the spinal cord and nerve roots in the neck The first chapter covers the basic anatomy and approaches to ACDF with illustrated guidance on microdiscectomy and bone grafting Further chapters cover decompression of the nerve root and cord interbody grafting technique corpectomy and fusion with the most current information on each procedure The important technique of sinking the graft in the disc space to prevent graft migration is covered in detail The final chapter provides information on instruments used in ACDF procedures Neuro Spinal Surgery Operative Techniques Anterior Cervical Discectomy and Fusion is enhanced by nearly 200 full colour images making this an ideal quick reference guide for spine surgeons Key Points Latest in Neuro Spinal Surgery Operative Techniques series Other topics in the series include Lateral Mass Fixation in Sub axial Cervical Spine and Cervical Laminoplasty 197 full colour images and illustrations *Spinal Deformities* Christopher DeWald, Ronald DeWald, 2024-10-02 The definitive authoritative textbook on spinal deformities from the Scoliosis Research Society Spinal Deformities The Comprehensive Text Second Edition edited by renowned spinal deformity surgeons Christopher J DeWald and his father Ronald L DeWald is a long awaited authoritative one stop resource that covers the breadth and depth of this specialized field The first edition textbook edited by Ronald DeWald attempted to help formulate a Scoliosis Research Society SRS core curriculum for spinal deformity to meet the educational needs of both aspiring and seasoned spine deformity surgeons This second edition edited by father and son expands and reorganizes the core curriculum concept Since the publication of the first edition in 2003 significant advancements have been made in this field This book reflects greater understanding of the mechanics of correction new implants and techniques that improve three dimensional correction emergence of innovative growing constructs for early onset scoliosis and introduction of minimally invasive and nonfusion approaches The textbook features 81 chapters organized into six comprehensive sections Spinal Anatomy and Evaluation Spinal Pathologies Pediatric and Adolescent Spinal Deformity Adult Spinal Deformity Spondylolisthesis and Surgical Considerations and Complications From perioperative management to intraoperative neuromonitoring techniques the authors share strategies to enhance patient safety and optimize surgical outcomes Greatly expanded content covers anatomy etiologies pediatric and adult deformities surgical and nonsurgical treatments and potential pitfalls Key Features Sponsored by the SRS with 100% of contributions from members including

senior surgeons Step by step instructions on diagnosis surgical planning operating room setup intraoperative techniques and management of complex complications Forty videos covering major techniques enhance understanding of surgical procedures and facilitate acquisition of practical skills This comprehensive reference and practical guide is essential reading for all spine deformity surgeons from residents and fellows to more advanced practitioners This book includes complimentary access to a digital copy on <https://medone.thieme.com> Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product

Weiner's Pain Management Mark V. Boswell, B. Eliot Cole, 2005-08-31 This seventh edition of a bestseller has been totally revised and updated making this the most comprehensive rewrite in the book's long and distinguished history It includes new chapters new sections and section editors and new contributors Offering an interdisciplinary approach to pain management the book delivers a scholarly presentation for Handbook of Minimally Invasive and Percutaneous Spine Surgery Michael Wang, David Greg Anderson, Steven Ludwig, Praveen V Mummaneni, 2011-04-30 Handbook of Minimally Invasive and Percutaneous Spine Surgery edited by Drs Wang Anderson Ludwig and Mummaneni is destined to become a favorite with all students of spine surgery whether residents in training or experienced practitioners Small enough to fit in a lab coat pocket this exceptional manual is just the resource you need It will prove invaluable as a quick reference in daily practice or simply as a refresher when confronting a difficult clinical problem This fully illustrated fundamental guide focuses on procedures and techniques that require minimal exposure Presented in a concise and readable format this text delivers the basics for those new to minimally invasive surgery as well as pointers and tips for more advanced surgeons It is destined to become a favorite with all students of spine surgery Composed of 11 chapters this practical manual begins with the true foundation of minimally invasive surgery imaging Safe and effective surgery performed through minimal exposures demands a thorough mind's eye understanding of anatomy without visualization Moreover it requires a keen ability to mentally translate two dimensional imaging into three dimensional anatomy Next the most common techniques of cannulation are covered in a logical step by step fashion just as it is taught in the operating room Minimally invasive options for pedicle screw placement are completed with a chapter describing the mini open technique The second half of this book focuses on fusion and pedicle screw insertion Finally this handbook does not ignore the endpoint of all these techniques achieving successful fusion Techniques to enhance the success of this outcome are discussed in Chapter 9 whereas potential complications and methods to avoid them are outlined in Chapter 8 Each chapter concludes with Surgical Pearls and Pitfalls which provide summaries of the salient points discussed in the chapter Unique to this text are highlighted boxes outlining Bailouts Alternative Strategies for completing the task when classic techniques fail Furthermore each chapter is well illustrated with step by step images that clearly demonstrate the points being made Written by world recognized minimally invasive spine surgeons this handbook provides essential coverage of key topics Modern Techniques in Spine Surgery Arvind

Bhave,2014-11-30 Minimally invasive techniques are now the preferred method for spine surgery because the incision is much smaller causing less damage to surrounding muscles pain is usually greatly reduced and recovery time is faster This book is a practical guide to minimally invasive diagnostic and surgical techniques for spine operations Beginning with an overview of spinal anatomy and the basics of minimally invasive surgery the following chapters examine the management of numerous different spinal conditions A complete chapter is dedicated to patients with spinal cord injury and rehabilitation More than 200 clinical photographs diagrams and tables enhance the comprehensive text making it an invaluable resource for both trainees and practising spine surgeons Key points Comprehensive guide to minimally invasive spine surgery Covers diagnosis and treatment of numerous spinal disorders Complete chapter dedicated to spinal injury and rehabilitation Includes more than 200 photographs and illustrations **Whitaker's Books in Print** ,1998 □□□□□□ Edward C. Benzel,Burak Ozgur,Steven R. Garfin,2014 Expert Techniques in Spine Surgery Alexander R Vaccaro,Arjun Sebastian,2019-10-15 This book provides neurosurgeons and trainees with the latest techniques in spinal surgery Divided into three sections each is dedicated to surgical procedures in a key region of the spine cervical thoracic and lumbar Each topic is presented in a step by step process covering anatomy indications and contraindications techniques and outcomes Authored by internationally recognised Philadelphia based experts in the field this invaluable text is enhanced by more than 200 surgical images and illustrations Key points Practical guide to latest techniques in spinal surgery for neurosurgeons and trainees In depth coverage of procedures for each section of the spine cervical thoracic and lumbar Internationally recognised Philadelphia based author team Highly illustrated with surgical images and illustrations **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 computerised 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 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 organised 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 *The Journal of Bone and Joint Surgery* ,1983 **The British National Bibliography** Arthur James Wells,2009 **Subject Guide to Books in Print** ,2001 **American Book Publishing Record** ,2007

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Minimally Invasive Spine Surgery A Practical Guide To Anatomy And Techniques Introduction

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