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Minimally Invasive Spinal Deformity Surgery

An Evolution of
Modern Techniques

 Springer

Minimally Invasive Spinal Deformity Surgery An Evolution Of Modern Techniques

Michael Y. Wang, Nathaniel P. Brooks



Minimally Invasive Spinal Deformity Surgery An Evolution Of Modern Techniques:

Minimally Invasive Spinal Deformity Surgery Michael Y. Wang, Yi Lu, D. Greg Anderson, Praveen V.

Mummaneni, 2014-01-17 Contemporary spinal surgeons whether orthopedic or neurosurgeons are increasingly recognizing minimally invasive spine surgery MISS as a desirable option to manage advanced degenerative diseases MISS techniques minimize blood loss surgical site pain and speed recovery Thus the marriage of MISS with adult spinal deformity was a natural one Currently the techniques technologies and education of surgeons have finally reached a point where MISS deformity surgeries are becoming commonplace Nevertheless the field is young enough that no comprehensive texts have addressed the unique challenges faced by surgeons exploring this evolving field This book will fill the gap *Surgical anatomy of the lateral transpsoas approach to the lumbar spine E-Book* R. Shane Tubbs, Rod J. Oskouian Jr., Joe Iwanaga, Marc Moisi, 2019-11-20 Surgical anatomy of the lateral transpsoas approach to the lumbar spine E Book *New Technologies in Spine Surgery, An Issue of Neurosurgery Clinics of North America E-Book* Michael Y. Wang, Nathaniel P. Brooks, 2019-11-28 This issue of Neurosurgery Clinics guest edited by Dr Nathaniel P Brooks and Dr Michael Y Wang is devoted to New Technologies in Spine Surgery Articles in this issue include Endoscopic Lumbar Discectomy Endoscopic Cervical Foraminotomy Endoscopic Lumbar Interbody Fusion Endoscopic Lumbar Decompression Lateral Lumbar Interbody Fusion Retropleural Thoracic Approach Novel Intervertebral Technologies Surface Technologies for Fusion Cell derived Stem Cell Technologies for Fusion Disk Replacement Enhanced Recovery in Spine Surgery Perioperative pain management Imaging Technologies Robotic Instrumentation Placement Minimally Invasive Deformity Advances Tissue Engineering Regenerative Treatments Minimally Invasive Tumor Ablation and more Essentials of Spinal Stabilization Langston T. Holly, Paul A. Anderson, 2017-10-11 This text includes stabilization techniques for the entire spinal column ranging from the cranio cervical junction to the pelvis The information is presented in an easily digestible format that is suitable for those in school or training yet includes pearls and insight that can be appreciated by even the most seasoned surgeon The text is divided into major sections based on the anatomical regions of the spine cervical thoracic and lumbosacral An additional section is devoted to related surgical concepts and principles such as spinal biomechanics and bone grafting options Each chapter has a uniform design including background indications patient selection preoperative considerations surgical technique technical pearls and strategies for complication avoidance Preoperative and postoperative images and or illustrations are utilized to highlight the presented information Edited by a Neurosurgeon and an Orthopedist and written by leading national and international Neurosurgery and Orthopedic spine experts Essentials of Spinal Stabilization provides a text which will broadly appeal to all spine care professionals *Adult and Pediatric Spinal Deformities - Recent Advances and Evolution of Technologies* Mick Perez-Cruet, Lee-Onn Chieng, 2024-08-21 Written by renowned neurosurgeons and orthopedic spine surgeons Adult and Pediatric Spinal Deformities Recent Advances and Evolution of Technologies provides insights into the latest development of

technologies and their application in managing both adult and pediatric spinal deformities The primary goal of this book is to help the spine surgeons navigate a daunting number of available devices and modern techniques and leverage the latest technologies to achieve optimal patient outcomes The text combines a thorough review of literature with expert experience to elucidate the advantages and capabilities of currently available techniques and instrumentation options **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 *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 *Issues in*

Neurology Research and Practice: 2013 Edition, 2013-05-01 Issues in Neurology Research and Practice 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Additional Research The editors have built Issues in Neurology Research and Practice 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Additional Research in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Neurology Research and Practice 2013 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> **Spinal Deformity Update,**

An Issue of Neurosurgery Clinics of North America, E-Book Sigurd H. Berven, Praveen V Mummaneni, 2023-09-22 In this issue of Neurosurgery Clinics guest editors Drs Sigurd Berven and Praveen V Mummaneni bring their considerable expertise to the topic of Spinal Deformity Update Top experts in the field discuss key topics surrounding abnormal curves in the spine covering preoperative planning open surgical approaches minimally invasive surgical approaches postoperative care and more Contains 19 relevant practice oriented topics including preoperative optimization risk factors for perioperative complications and preoperative modification when to do less with adult deformity surgery fusion of the fractional curve vs the entire deformity robotic assisted surgery and navigation in deformity surgery complications and avoidance in adult deformity surgery and more Provides in depth clinical reviews on spinal deformities offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews

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 *The Spine: Medical & Surgical Management* Alexander Vaccaro, 2019-04-30 The Spine Medical and Surgical Conditions is a complete two volume evidence based study edited by an internationally recognised team of spine surgeons based in the USA

China Canada Germany Japan Brazil Egypt and India The two volumes are divided into 137 chapters across fourteen sections The first section covers general topics in spinal medicine including anatomy biomechanics physical and neurological examination interventional diagnostics and therapeutics and anaesthesia This is followed by sections on the development of the spine metabolic disorders and bone grafting Subsequent sections focus on surgery for particular parts of the spine including cervical lumbar and thoracic as well as sections on spinal cord injuries and motor preservation Later sections in the book provide information on the spine in paediatrics adult deformity tumours vascular malformations and infections complications of spinal surgery and a final section on minimally invasive techniques Enhanced by 1500 full colour images The Spine Medical and Surgical Conditions is also made available online complete with text images and video with each physical copy Key Points Comprehensive two volume guide to spinal medicine Covers anatomy biomechanics examination diagnostics therapeutics anaesthesia surgery and complications Enhanced by 1500 full colour images Includes access to online version with complete text images and video

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

Lumbar Interbody Fusions E-Book Sunil V Manjila, Thomas Mroz, Michael P. Steinmetz, 2018-09-11 Authored by experienced surgeons and key innovators in the fast moving field of LIF surgery Lumbar Interbody Fusions provides an in depth focused approach to recent advances in surgical techniques and technology Covering both minimally invasive and open procedures this comprehensive reference provides step by step details for proven techniques including extreme lateral oblique lateral and direct lateral approaches intertransverse approaches axial approaches and endoscopic approaches Focuses on the technical nuances pearls and pitfalls of each procedure as well as complication avoidance and management Features high quality radiographs and intraoperative images for superb visual guidance throughout Covers topics that have as yet unsettled surgical management such as thoracolumbar and lumbosacral overlap diseases Includes a concise review of evidence based spine literature at the end of each procedural chapter Features

chapters on adjunct instrumentation such as pedicle screw and facet fixation as well as graft selection and revision surgeries

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 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

Recent Advances in Spinal Surgery Alexander Vaccaro, John D. Koerner, David H. Kim, 2016-02-12 Recent Advances in Spinal Surgery is a comprehensive illustrated collection of the most recent developments in the field An editorial team of US based experts ensures authoritative content throughout Divided into seventeen chapters this book covers the full spectrum of spinal conditions and interventions All information is thoroughly up to date including reviews of novel neuroprotective and neuroregenerative strategies and new tools for predicting surgical outcomes and collecting data Recent Advances in Spinal Surgery also features discussion on surgical options for patients for whom non operative interventions are unsuccessful and covers total disc replacement for both the cervical and lumbar spines 88 full colour illustrations enhance this important update in the field of spinal surgery Key Points Reviews of the most recent developments in the field of spinal surgery New neuroprotective and neuroregenerative strategies for spinal cord injuries 88 full colour illustrations

The Complete Scoliosis Surgery Handbook for Patients Dr. Kevin Lau, An In Depth and Unbiased Look Into What to Expect Before and During Scoliosis Surgery Scoliosis surgery doesn't have to be a daunting problematic and anxiety ridden experience In fact with the proper information advice and knowledge you can have the ability to make confident and informed decisions about the best and most suitable treatment options Dr Kevin Lau's latest book will help you to discover current and crucial information that will guide you in making informed decisions about your future spinal health You will Learn more about the details of scoliosis surgery Including understanding components of the surgery itself such as why the rods put inside in your body during surgery fusion are meant to remain there Uncover the sobering facts For instance you will learn that after surgery there is a chance you may not return to full normalcy in appearance or in activity level Discover the factors that determine your long term prognosis including detailed case studies Learn how to properly evaluate the risks associated with the many types of scoliosis surgery Get great tips on how to afford your surgery and how to choose the best time place and surgeon for your needs Discover Over 100 illustrations to help make it as easy to read and understand Dr

Kevin Lau has made it his life's work to explore, investigate and share the truths about nutrition, diseases and healing. In *The Complete Scoliosis Surgery Handbook for Patients*, Dr Lau explores the ins and outs of the scoliosis including the condition itself, surgery and when a patient would benefit most from surgery. Dr Lau reveals poignant and life-changing wisdom that no scoliosis sufferer should go without. Treat this book as your best friend and your guide on the journey to effective spinal health. This book is a compilation of the wisdom of many spinal professionals including surgery physicians, orthopedic doctors, physiotherapists and chiropractors and includes valuable insights from real-life sufferers. Carefully examining each treatment avenue a patient may consider, it allows individuals to feel confident and informed throughout the decision-making process. While Dr Lau believes in and teaches non-surgical practices, he acknowledges the many benefits of scoliosis surgery and strives to keep his readers and patients educated about every viable avenue for effective scoliosis treatment.

What You Will Discover: Affording Your Surgery: Learn about the different costs associated with scoliosis surgery and find out what factors determine the final price such as age, health and the severity of your curve. 7 Questions To Ask Yourself: The truth is that while surgery is suitable to some patients, it isn't necessarily right for all. Consider these seven simple questions to help you determine if surgery is your best option. Factors That Contribute to the Progression of Scoliosis: Did you know that heredity, injury or genetic markers aren't the only things that can spur your condition on? Simple factors like vitamin deficiencies, elevated enzyme levels and hormone levels can all contribute to a worsening of your scoliosis. Find out what you can do to minimize the risk of these factors and learn how your imbalances may be affecting your condition. Possible Complications: Surgery is a big decision and does not come without the risk of complications. Sometimes the complications are minor like longer recovery times, but sometimes they can be life-threatening or debilitating. Find out what factors lead to complications, how to minimize possible problems and how professionals go about testing you for these complications during surgery. Returning to a Normal Life: Likely the biggest question on a patient's mind is, "When will I return to normal?" Learn from real case studies the successes and hardships surgery patients encounter on the road to a normal, healthy life. Making an informed decision is the best way to ensure any success and mental preparation is at least as important as the surgery itself. Knowing what to expect and how to mitigate the loss of money, time and effort will help you build a stable emotional foundation, minimizing fear, anxiety and surprises along the way. We all feel better knowing what to expect and this book will help you feel prepared, knowledgeable and in control.

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 Tuberculosis of the Central Nervous System
Mehmet Turgut, Ali Akhaddar, Ahmet T. Turgut, Ravindra K. Garg, 2017-06-13 Written and edited by leading international
authorities in the field this book provides an in depth review of knowledge of tuberculosis of the central nervous system with
emphasis on clinical diagnostics and therapeutic features Tuberculosis one of the most lethal diseases in human history still
poses a serious threat in the world together with economic and social problems although a great progress in the fight against
this infectious disease in the last century It covers the full range of tuberculosis of central nervous system and the chapters
are organized into six sections 1 the cranial 2 the spinal and 3 the peripheral portions of the nervous system followed by 4 a
section on the laboratory studies in tuberculosis 5 a section on medical and surgical therapy and 6 further insights into
tuberculosis This comprehensive reference book will be an ideal source for neurosurgeons neurologists and specialists upon
infectious diseases seeking both basic and more sophisticated information and surgical procedures relating to the
complications associated with tuberculosis involving the spine brain and peripheral nerves **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 Bridwell and DeWald's Textbook of Spinal Surgery Keith
H. Bridwell, Munish Gupta, 2019-11-04 Written by experts from around the world the latest edition of this leading reference
features contributions from both neurosurgeons and orthopaedic surgeons Presenting the full scope of spinal surgery
chapters discuss anatomy biomechanics complications instrumentation preoperative and postoperative care and other core
topics for surgeons And numerous illustrations and clinical video clips provide critical visual context

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