



Operative Techniques in **SPINE SURGERY**

FOURTH EDITION

ALEXANDER R. VACCARO
ELI M. BARON



PROCEDURE 8

Cervical Total Disk Replacement

James W. Griffin and David H. Lammie

INDICATIONS

Neck pain, radiculopathy, and/or myelomonastic disease caused by cervical disc herniation, and mild cervical spondylosis at the level of levels

CONTRAINDICATIONS

- Cervical instability and greater than a loss of lordosis or a degree of sagittal curve on dynamic radiographs or an absolute contraindication
- Bony canal stenosis and facet joint degeneration on relative contraindications

PREOPERATIVE CONSIDERATIONS

- History and physical examination findings about cervical radiographic findings
- Blood thinners and anticoagulants
- Risk of myelomonastic disease
- Cervical spondylosis
- Cervical spondylosis

Imaging/Intraoperative

- History and physical examination findings about cervical radiographic findings
- Cervical spondylosis and/or myelomonastic disease of cervical spondylosis and myelomonastic disease using a high-resolution computed tomography (CT) and magnetic resonance imaging (MRI) to myelomonastic (Fig. 8.1a and 8.1b-c)
- Preoperative of myelomonastic disease to myelomonastic (Fig. 8.1c)



FIGURE 8.1 (A) Anteroposterior and (B) lateral radiographs.

Operative Techniques In Spine Surgery

**John M. Rhee, Scott D. Boden, Sam W.
Wiesel, Todd J. Albert**



Operative Techniques In Spine Surgery:

Operative Techniques in Spine Surgery John Rhee, Scott D. Boden, 2015-12-07 Derived from Sam W Wiesel's four volume *Operative Techniques in Orthopaedic Surgery* this single volume resource contains the user friendly step by step information you need to confidently perform the full range of operative techniques in spine surgery In one convenient place you'll find the entire Spine section as well as relevant chapters from the Oncology and Pediatrics sections of *Operative Techniques in Orthopaedic Surgery* Superb full color illustrations and step by step explanations help you master surgical techniques select the best procedure avoid complications and anticipate outcomes Written by global experts from leading institutions *Operative Techniques in Spine Surgery* 2nd Edition provides authoritative easy to follow guidance to both the novice trainee or experienced surgeon

Operative Techniques in Spine Surgery John M. Rhee, Scott D. Boden, Sam W. Wiesel, Todd J. Albert, 2022 **Operative Techniques in Spine Surgery** JOHN. RHEE, Dr Scott D Boden, MD, 2021-07-22 Derived from Sam W Wiesel and Todd J Albert's four volume *Operative Techniques in Orthopaedic Surgery* this single volume resource contains a comprehensive authoritative review of operative techniques in spine surgery In one convenient place you'll find the entire Spine section as well as relevant chapters from the Oncology and Pediatrics sections of *Operative Techniques in Orthopaedic Surgery* Superb full color illustrations and step by step explanations help you master surgical techniques select the best procedure avoid complications and anticipate outcomes Written by global experts from leading institutions *Operative Techniques in Spine Surgery* Third Edition clearly demonstrates how to perform the techniques making this an essential daily resource for residents fellows and practitioners Includes new procedures and comprehensive updates throughout with visually stunning consistently rendered medical illustrations and intraoperative photographs that present how to perform each technique step by step Provides new procedural videos and a newly streamlined eBook for on the go reference Uses consistent easy to follow chapter templates and extensive bulleted lists and tables for quick reference and review Discusses each clinical problem using the same concise format definition anatomy physical exams pathogenesis natural history physical findings imaging and diagnostic studies differential diagnosis nonoperative management surgical management pearls and pitfalls postoperative care outcomes and complications Enrich Your eBook Reading Experience Read directly on your preferred device's such as computer tablet or smartphone Easily convert to audiobook powering your content with natural language text to speech

Operative Techniques in Spine Surgery John Rhee, Sam W. Wiesel, Scott D. Boden, John M. Flynn, 2012-10-29 *Operative Techniques in Spine Surgery* provides full color step by step explanations of all operative procedures in spine surgery It contains 19 chapters from the spine section and 10 chapters from the pediatric section of Dr Sam W Wiesel's *Operative Techniques in Orthopaedic Surgery* as well as 18 new chapters covering advanced procedures Written by experts from leading institutions around the world this superbly illustrated volume focuses on mastery of operative techniques and also provides a thorough understanding of how to select the best procedure how to avoid

complications and what outcomes to expect The user friendly format is ideal for quick preoperative review of the steps of a procedure Each procedure is broken down step by step with full color intraoperative photographs and drawings that demonstrate how to perform each technique Extensive use of bulleted points and tables allows quick and easy reference Each clinical problem is discussed in the same format definition anatomy physical exams pathogenesis natural history physical findings imaging and diagnostic studies differential diagnosis non operative management surgical management pearls and pitfalls postoperative care outcomes and complications

Operative Techniques of Spine Surgery Angus Sanders, 2015-03-25 The various operative techniques of spine surgery are described in this profound book It comprises of contributions by reputed experts from across the globe who have presented their points of view on the subject The range of topics varies from anatomy of spine imaging technique biology to spinal deformity bone graft substitute and minimally invasive surgery It provides latest research outcomes for assisting readers including students medical instrument developers and professionals The readers have been provided with important information regarding spine surgery and spine management and this book will prove to be a valuable guide for daily practice

Surgical Techniques for the Spine Thomas R. Maher, Andrew A. Merola, 2003 This guide provides step by step instructions to nearly 60 different spinal procedures describing the most advanced techniques available today Each chapter is written by top international experts who offer insights based on years of clinical experience

Operative Techniques: Spine Surgery - E-Book Alexander R. Vaccaro, Eli M. Baron, 2012-03-23 Spine Surgery 2nd Edition delivers step by step multimedia guidance to help you master the must know techniques in this field Part of the popular and practical Operative Techniques series this orthopaedics reference focuses on individual procedures each presented in a highly visual easy to follow format for quick reference Consult this title on your favorite e reader with intuitive search tools and adjustable font sizes Elsevier eBooks provide instant portable access to your entire library no matter what device you re using or where you re located Access the entire text fully searchable online at www.expertconsult.com Concentrate on precisely the information you need with brief highly illustrated coverage of each surgical technique complemented with just the right amount of relevant science Find the answers you need quickly and easily with a strictly templated format for consistent and rapid visual reference View 12 surgical videos at www.expertconsult.com demonstrating how to perform state of the art procedures such as C1 C2 Posterior Cervical Fixation Minimally Invasive Deformity Correction and Fusion and Lumbar Disc Arthroplasty Learn today s hottest techniques with new chapters on C2 translaminar fixation vertebroplasty kyphoplasty internal laminectomy and interbody fusion See exactly what to do using step by step intraoperative photos demonstrating each technique and radiographs showing presenting problems and post surgical outcomes Achieve optimal results using minimally invasive surgery whenever possible Contain costs by using new implants related to pedicle screws and interbody devices as well as new biologics such as BMP bone morphogenetic protein Benefit from the latest evidence based information from randomized trials and

retrospective studies *Operative Techniques* Eli M. Baron, Alexander R. Vaccaro, 2008 **Operative Techniques: Spine Surgery** Sunil Jeswani, 2012 **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 **Neuro Spinal Surgery Operative Techniques: Lateral Mass Fixation in Sub-axial Cervical Spine** JKBC Parthiban, 2015-11-30 Neuro Spinal Surgery Operative Techniques Lateral Mass Fixation in Sub axial Cervical Spine is a concise illustrated resource which provides a step by step guide to the successful insertion of a lateral mass screw The book is split into two sections the first covers the basic concepts of lateral mass the bulky solid parts of the first vertebra of the spine which support the weight of the head The second section covers surgical techniques with surgical procedures accompanied by intraoperative photographs and drawings This book is enhanced by over 100 full colour images and illustrations making this book a highly useful reference tool for spine surgeons

Operative Techniques: Spine Surgery E-Book Alexander R. Vaccaro, Eli M. Baron, 2024-06-11 Part of the superbly illustrated Operative Techniques series Spine Surgery 4th Edition brings you up to speed with must know surgical techniques in today's technically demanding spine surgery Step by step evidence based guidance walks you through both common and uncommon situations you're likely to see in your practice including trauma related cases Concise detailed text accompanies the excellent visuals to provide a comprehensive practical tool ideal for orthopaedic and neurosurgery residents fellows and practicing surgeons Focuses on individual procedures each presented in an easy to follow format for quick reference Combines brief bulleted descriptions of surgical procedures with crisp clear illustrative drawings and images clinical pearls and just the right amount of relevant science Contains seven all new chapters Adolescent Idiopathic Scoliosis Lenke Classification and Surgical Indications NOMS Framework Approach to the Treatment of Spinal Metastatic Tumors Anterior Approach for Lumbar Interbody Fusion Robotically Assisted Spinal Surgery Setup and Workflow Virtual Reality Augmented Reality in Spinal Surgery Setup and Workflow Endoscopic Discectomy and Foraminotomy and Awake Spinal Surgery Includes surgical videos available online that demonstrate how to perform state of the art procedures **Operative Techniques:**

Spine Surgery E-Book Eli M. Baron, Alexander R. Vaccaro, 2016-11-27 Focusing solely on must know procedures Operative Techniques Spine Surgery 3rd Edition offers a highly visual step by step approach to the latest techniques in the field Thorough updates keep you current with recent changes in spine surgery and new contributors bring a fresh perspective to this rapidly changing specialty Part of the popular Operative Techniques series this practical reference focuses on individual procedures each presented in an easy to follow format for quick reference Step by step intraoperative photos depict each technique and high quality radiographs show presenting problems and post surgical outcomes Clean design layout features brief bulleted descriptions clinical pearls and just the right amount of relevant science Ideal for orthopaedic and neurosurgery residents fellows and practicing surgeons Updated coverage includes hybrid surgery coflex fusion and modifications to the lateral transosseous approach

Operative Techniques: Spine Surgery Alexander R. Vaccaro, Eli M. Baron, 2024-07-31 Part of the superbly illustrated Operative Techniques series Spine Surgery 4th Edition brings you up to speed with must know surgical techniques in today s technically demanding spine surgery Step by step evidence based guidance walks you through both common and uncommon situations you re likely to see in your practice including trauma related cases Concise detailed text accompanies the excellent visuals to provide a comprehensive practical tool ideal for orthopaedic and neurosurgery residents fellows and practicing surgeons Focuses on individual procedures each presented in an easy to follow format for quick reference Combines brief bulleted descriptions of surgical procedures with crisp clear illustrative drawings and images clinical pearls and just the right amount of relevant science Contains seven all new chapters Adolescent Idiopathic Scoliosis Lenke Classification and Surgical Indications NOMS Framework Approach to the Treatment of Spinal Metastatic Tumors Antepsoas Approach for Lumbar Interbody Fusion Robotically Assisted Spinal Surgery Setup and Workflow Virtual Reality Augmented Reality in Spinal Surgery Setup and Workflow Endoscopic Discectomy and Foraminotomy and Awake Spinal Surgery Includes surgical videos available online that demonstrate how to perform state of the art procedures An eBook version is included with purchase The eBook allows you to access all of the text figures and references with the ability to search customize your content make notes and highlights and have content read aloud Additional digital ancillary content may publish up to 6 weeks following the publication date

Principles and Techniques of Spine Surgery Howard S. An, 1998 Both residents and practicing orthopedic surgeons will appreciate this reasonably priced text on all aspects of spine surgery Complete coverage is included on adults and children and both surgical and non surgical management techniques are featured The material is organized into six sections Principles and Diagnostic Tests Pediatrics Trauma Degenerative Disorders Adult Deformities and Miscellaneous Disorders and Procedures and Instrumentation

Surgical Techniques in Spinal Surgery: Cervical Spine: A Step by Step Approach Ps Ramani, 2010-01-01

Spine Surgery 2-Vol Set E-Book Edward C. Benzel, 2012-05-14 Build a solid foundation of knowledge based on the fundamentals and employ step by step instruction from Spine Surgery Edited by Edward C Benzel this best

selling medical reference explores the full spectrum of surgical techniques used in spine surgery and delivers the comprehensive cutting edge guidance you need to achieve successful outcomes Online access thorough updates contributions by leading international authorities an abundance of detailed illustrations and procedural video clips provide everything you need to avoid and manage complex problems Glean essential up to date need to know information in one comprehensive reference that explores the full spectrum of surgical techniques used in spine surgery Hone your surgical skills and technique with intraoperative videos and more than 800 outstanding illustrations demonstrating each technique step by step Grasp and apply the latest knowledge from more than 25 brand new chapters as well as extensive revisions or total rewrites to the majority of existing chapters to present all of the most up to date information available on every aspect of spine surgery including motion preservation technologies endovascular management back pain and psychosocial interactions biomechanics and more Consult with the best Renowned neurosurgery authority Edward C Benzel leads an international team of accomplished neurosurgeons and orthopedic surgeons many new to this edition who provide dependable guidance and share innovative approaches to surgical techniques and complications management Equip yourself to address increasing occurrences of pain among aging and physically active patients Access the information you need where you need it on your laptop or mobile device via expertconsult.com with fully searchable text a wealth of procedural videos online updates from the experts downloadable image gallery and links to PubMed

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

Spine Surgery Alexander R. Vaccaro, Eli M. Baron, 2012 Spine Surgery 2nd Edition delivers step by step multimedia guidance to help you master the must know techniques in this field Part of the popular and practical Operative Techniques series this orthopaedics reference focuses on individual procedures each presented in a highly visual easy to follow format for quick reference Elsevier does not support Expert Consult access to institutional customers

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 Hrtl 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

Reviewing **Operative Techniques In Spine Surgery**: Unlocking the Spellbinding Force of Linguistics

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