



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 myelomonasticus 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. 8.1 and 8.2) and (Fig. 8.3)
- Preoperative of myelomonastic disease to myelomonastic (Fig. 8.4)



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

Operative Spine Surgery

Angus Sanders



Operative Spine Surgery:

Operative Spine Surgery William C. Welch, George B. Jacobs, Roger P. Jackson, 1999 This book provides a synopsis of the underlying theory and practice of spine surgery It emphasizes patient evaluation operative and nonoperative procedures intraoperative complications and long term follow up

Operative Techniques in Spine Surgery John Rhee, Scott Boden, 2021-05-28 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 will 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

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 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 will 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

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Orthopedic Techniques Spine Surgery Garg Bhavuk, Malhotra Rajesh, 2013-12-15 Spine surgery has come to the age into the new millennium This is an efficient technical guide designed easy to use concise and accurate how to reference for spine surgeons and residents in training who wish to attack a broad range of challenges in techniques of spine surgery The world s foremost spine surgeons from USA UK Europe and Asia describe their preferred techniques in step by step approach explaining the indications and contraindications identifying pitfalls and potential complications Improvement in technology and innovation has given spine surgery a new vision as well as a practical proposition The book has been written in an atlas format and this one of a kind book offers a comprehensive coverage of all practical aspects of operative spine surgery Covering the conventional as well as modern minimally invasive techniques to address various spine pathologies all masters in the field present a clear layout more than 400 high quality excellent illustrations and masterly tips and pearls to make a difficult spine surgery possible even for an average spine surgeon The detailed operative steps plus all the images make the book a handy companion for all involved in operative spine care **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 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

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 *Operative Spine Surgery*

William C. Welch, George B. Jacobs, Roger P. Jackson, 1999

Surgical Techniques for the Spine Thomas R.

Haher, 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 *Endoscopic Spine Surgery* Daniel H. Kim, Gun Choi, Sang-Ho

Lee, 2018-01-10 Endoscopic technology has advanced to the point where practitioners can now access visualize and treat spine pathologies previously only accessible through open surgical approaches Endoscopic Spine Surgery 2nd Edition provides a comprehensive background on endoscopic spine surgery and covers an unparalleled number of minimally invasive spine procedures that have revolutionized the spine treatment paradigm Readers will greatly benefit from many years of expertise and wisdom shared by master spine surgeons Daniel Kim Gun Choi Sang Ho Lee and Richard Fessler and their expert contributors Due to the narrow endoscopic view subtle microanatomical differences in the lumbar thoracic and cervical regions are not always easy to visually discern To address this challenge the book contains detailed procedural descriptions and images mirroring endoscopic views spine surgeons encounter in the OR Organized anatomically 53 chapters guide readers systematically through lumbar thoracic cervical and craniocervical junction procedures for pathologies ranging from low back pain and deformities to tumors lesions infections and trauma Key Features More than 1000 high quality images including color procedural photographs and medical illustrations provide in depth visual understanding Spinal

pathologies and procedures delineated in 75 videos accessible via the Media Center from case studies to step by step technique tutorials Covers the full spectrum of spine endoscopy including percutaneous approaches microdiscectomy laminectomy discectomy foraminotomy hemilaminectomy thoracic decompressions fusion fixation and thoracoscopic procedures The use of state of the art technology such as ultrasonic bone dissectors endoscopic radiofrequency denervation the video telescope operating monitor VITOM minimally invasive tubular retractors and 3D stereo tubular endoscopic systems Neurosurgical and orthopaedic residents spine fellows and seasoned spine surgeons will all greatly benefit from the significant knowledge and insights revealed in this remarkable multimedia resource This book may also be of interest to neurosurgical and orthopaedic nurses physical therapists chiropractors and medical device professionals **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** 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 **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 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

Handbook of Spine Surgery Ali A. Baaj,Praveen Mummaneni,Juan S. Uribe,Alexander R. Vaccaro,Mark S. Greenberg,2024-10-02 The go to handbook on the current evaluation and surgical management of spinal disorders Handbook of Spine Surgery Third Edition edited by renowned spine surgeons Ali A Baaj Praveen V Mummaneni Juan S Uribe Alexander R Vaccaro and Mark S Greenberg reflects new techniques introduced into the practice since publication of the last edition along with four color images and videos The book is organized into four parts and 66 chapters starting with basic spinal anatomy Part II covers the physical exam electrodiagnostic testing imaging safety issues intraoperative monitoring bedside procedures and the use of orthotics pharmacology and biologics Part III discusses a full range of spinal pathologies and the final section concludes with 34 succinct procedural chapters Key Highlights Contributions from an expanded who's who of spine surgery experts New chapters cover state of the art techniques including endoscopy CT guided navigation robotics augmented reality and vertebral body tethering Procedural chapters include key points indications diagnosis preoperative management anatomic considerations techniques surgical pearls and more This is an invaluable resource for neurosurgical and orthopaedic residents spinal surgical fellows and practicing orthopaedic surgeons and neurosurgeons who specialize in 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 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 The Resident's Guide to Spine Surgery Joseph R. O'Brien,S. Bobby Kalantar,Doniel Drazin,Faheem A. Sandhu,2019-11-23 With an emphasis on set up and execution and lessons learned from expert practitioners this concise practical guide for residents and fellows presents the essentials for both common and complex spine surgery Proceeding anatomically from the cervical to the sacroiliac and including chapters on spinal tumors infection and revision surgery nearly 40 different procedures are highlighted from corpectomy arthroplasty and laminectomy to percutaneous screws decompression and fusion Chapters include all the information a resident will need to know indications and contraindications imaging and diagnosis OR set up and instrumentation selection the specific operative technique post operative protocols and clinical pearls and pitfalls Radiographs and full color intraoperative photographs accompany each procedure Whether suturing dura or performing a lateral interbody fusion spinal surgery is a technical pursuit and having a firm grasp of the details can ultimately determine the procedure s success Written and edited by veterans in orthopedic surgery and neurosurgery The Resident s Guide to Spine Surgery is just the detailed user friendly resource for up and coming clinicians looking to develop and expand their surgical expertise *Operative Techniques* Eli M. Baron,Alexander R. Vaccaro,2008

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

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