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Neuro Spinal Surgery Operative Techniques: Anterior Cervical Discectomy and Fusion Mar 17 2021 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

Surgery of the Pediatric Spine Feb 13 2021 Ideal for neurosurgeons, pediatric neurosurgeons, and orthopedic surgeons, Surgery of the Pediatric Spine is a comprehensive multidisciplinary reference for the surgical management of the most frequently encountered spine problems in the pediatric patient. An overview of developmental and clinical aspects provides essential information on biomechanics, neuroimaging, preoperative evaluation, anesthesia, and neurophysiological monitoring. The book goes on to present the surgical anatomy and various approaches to the spine and spinal cord. Chapters are grouped into easy-to-reference sections that are organized by type of problem, including congenital anomalies and developmental disorders; neoplasms; vascular malformations; inflammatory and infectious diseases; neuromuscular disease; trauma; and deformities. The book also presents special techniques for the treatment of spinal deformity, such as osteotomy, vertebrectomy, VEPTR expansion thoracoplasty, and fusionless techniques. A chapter devoted to the rehabilitation of children with spinal cord injury covers the principles and key concepts in treatment, as well as the possible secondary complications and challenges that are unique to pediatric patients. Highlights: Clinical insights from well-known experts in the fields of neurosurgery, pediatric neurosurgery, and orthopedics Detailed information for each stage of management guides the reader through clinical presentation, diagnostic studies, indications, operative techniques, nonsurgical treatments, possible complications, and outcomes More than 1,000 illustrations and images demonstrate key concepts Numerous cases in selected chapters illustrate management principles and treatment outcomes An invaluable resource for multidisciplinary approaches to patient care, this comprehensive text provides readers with a solid foundation in the specific issues associated with treating the pediatric patient with spine disease and disorders.

Spine Surgery Aug 29 2019 This best-selling resource explores the full spectrum of surgical techniques used in spine surgery, and describes how to avoid and manage complex problems. It emphasizes how to achieve successful outcomes and minimize risks. The 2nd Edition delivers more than 25 brand-new chapters, as well as extensive revisions and updates throughout, to reflect all of the latest advances in the field. It also features contributions from an increased number of orthopaedic surgeons to round out the strong coverage provided by the many neurosurgeon contributors. Features contributions from well-known neurosurgeons and orthopaedic surgeons, for well-rounded, authoritative coverage from beginning to end. Offers more than 825 outstanding illustrations that demonstrate how to perform every procedure step by step. Provides 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. Includes chapters on hot topics such as Nonspinal Pathology Masquerading as Spinal Disease · Bone Void Fillers: Bone and Bone Substitutes · Data Management · Posterior Lumbar Interbody Fusion · Ankylosing Spondylitis and Related Disorders · Craniocervical Junction Deformities · Pediatric Spinal Deformities · Subsidence and Dynamic Spinal Stabilization · and The Nonoperative Management of Neck and Back Pain. With 267 additional contributing experts.

Neurosurgery Dec 02 2019 This is a clear, incisive introduction to neurosurgery. It is designed for the medical student learning about neurosurgery, the neurological or surgical resident who is rotating on neurosurgery, the practicing neurologist, internist or general surgeon who wants a succinct introduction to neurosurgery, and the neurosurgical trainee in his or her early years. The book's emphasis is on the diagnosis and management of common neurosurgical disorders. It covers in a concise, practical fashion the emergency, elective, diagnostic and therapeutic procedures that neurosurgeons use. The text is divided

into four sections. The first section deals with neurosurgical diagnosis and includes chapters on radiographic and physiological diagnostic modalities. The next section focuses on management decisions including a detailed discussion of neurosurgical emergencies. The third part describes common neurosurgical disorders such as trauma, tumors, cerebrovascular diseases, infections, CSF abnormalities and degenerative spinal disorders. The last section summarizes several special topics in neurosurgery, including pediatric neurosurgery and stereotactic and functional neurosurgery.

Atlas of Neurosurgical Techniques Sep 03 2022 Here is complete coverage of state-of-the-art surgical techniques for the spine and peripheral nerves. This atlas engages the full range of approaches -- anterior, antero-lateral, posterior, and postero-lateral -- for operations on peripheral nerves and in every area of the spine. This text is lavishly illustrated with more than 1,200 images, including 811 beautiful full color drawings.

Spinal Neurosurgery Dec 06 2022 Part of the Neurosurgery by Example series, this volume on spinal neurosurgery presents exemplary cases in which renowned authors guide readers through the assessment and planning, decision making, surgical procedure, after care, and complication management of common and uncommon disorders. The cases explore the spectrum of clinical diversity and complexity within spinal neurosurgery, including occipital cervical dislocation, cervical myelopathy, thoracic cord compression, lumbar stenosis, and more. Each chapter also contains 'pivot points' that illuminate changes required to manage patients in alternate or atypical situations, and pearls for accurate diagnosis, successful treatment, and effective complication management. Containing a focused review of medical evidence and expected outcomes, Spinal Neurosurgery is appropriate for neurosurgeons who wish to learn more about a subspecialty, and those preparing for the American Board of Neurological Surgery oral examination. Advance Praise for Spinal Neurosurgery "I congratulate Drs. Harrop and Maulucci for this well done book that utilizes a unique and very effective format to cover the gamut of spine surgery and spine care topics. The book is well organized, lavishly illustrated with numerous figures and images, and includes oral board review pearls that are of particular value for those studying for their neurosurgery board examinations." -- Edward Benzel, MD, Emeritus Chair of Neurosurgery, Cleveland Clinic, Cleveland, OH "Through this extensive collection of various spine related clinical scenarios, the reader is able to learn very pertinent management principles and pearls. This book is particularly useful for those who are preparing for the oral boards, but also serves as excellent reading material for neurosurgeons and orthopedic spine surgeons at any stage in their career." -- Charles Sansur, MD, Associate Professor of Neurosurgery, University of Maryland School of Medicine, Baltimore, MD "Drs. Harrop and Maulucci have assembled an excellent compendium of cases/pathologies. The "Case-based" approach of this text lends itself to an easy readability as well as a compartmentalization of the reading for busy practitioners. This book is extremely useful to practitioners at all stages in their career, as it covers both basic and controversial information for each topic, and may be particularly useful for those surgeons reviewing for their oral board examination." -- Michael Y. Wang, MD, FACS, Professor of Neurological Surgery and Rehab, Medicine Spine Fellowship Director, Chief of Neurosurgery, University of Miami Hospital and Miller School of Medicine, Miami, FL

Neurosurgery Fundamentals Oct 12 2020 The quintessential guide providing a one-stop roadmap to a neurosurgical career! Neurological surgery is a complex, highly selective specialty. For medical students and residents, navigating a huge array of neurosurgical information can be overwhelming. Neurosurgery Fundamentals by Nitin Agarwal is a portable reference enabling swift assimilation of neurosurgical care essentials. The book starts with a roadmap to a career in neurosurgery. It concludes with Advice from the Masters, featuring invaluable resources and insights from prominent neurosurgeons. Comprehensive technical overviews are provided on the neurological exam, neuroanatomy, neuroradiology, neurocritical care, traumatic brain and spinal cord injury, degenerative and deformity spine, neurovascular surgery, neurosurgical oncology, pediatric neurosurgery, functional neurosurgery, stereotactic radiosurgery, neurological infectious diseases, and interdisciplinary care. Socioeconomic topics include training, licensure, credentialing, and advocacy. Key Features Fundamental diseases, tests, and operative approaches are summarized. Top Hits feature the most salient questions, aiding in retention of knowledge. High-yield resources are highlighted to augment reader identification. Neurosurgical Pearls offer advice from the masters relevant to each chapter. High-quality illustrations, photographs, and radiographs enrich understanding. Aspiring neurosurgical providers will benefit from the easy-to-digest wealth of information in this concise, yet comprehensive guide.

Neurosurgery Tricks of the Trade Jul 01 2022 A collection of core procedures for the spine surgeon... Neurosurgery Tricks of the Trade: Spine and Peripheral Nerves presents core surgical procedures in a concise, highly didactic format, enabling surgeons to quickly grasp their essence from the bulleted text and superb illustrations that accompany them. Expert neurosurgeons specializing in the spine and peripheral nerves describe how they perform common procedures and offer surgical tips and pearls. Key Features: Distills a wealth of information in a concise, step-by-step format, making it easy for neurosurgeons and other spine specialists to review how procedures are performed Includes more than 100 procedures focusing on the spine and peripheral nerves, each accompanied by high-quality, original illustrations Presents all procedures using a consistent outline and covers topics in either a pathology-based or an approach-based manner Surgeons at all levels, from residents learning procedures to experienced practitioners needing a quick refresher, will find this book and its companion volume, Neurosurgery Tricks of the Trade: Cranial, to be invaluable resources throughout their surgical careers. This book has been developed from Thieme eNeurosurgery, the world's most comprehensive neurosurgical resource online. For a free trial, go to: <http://thieme.com/eneurotrial>

MRI Atlas Jan 07 2023 This interdisciplinary atlas is the fruit of cooperation among radiologists, orthopedic surgeons, traumatologists, and neurosurgeons. Clinically oriented, it covers all important diseases and injuries of the spine. Numerous illustrations are supplemented by concise descriptions of anatomy and pathophysiology, normal and abnormal MRI appearance, diagnostic pitfalls, and the clinical significance of MRI. The didactic style establishes the fundamentals of spinal

anatomy and disease as a basis for understanding diagnostic strategies and surgical management. By combining descriptions of the clinical manifestation of spinal disorders with the corresponding MRI findings, the book develops a meaningful approach to the interpretation of MRI of the spine.

50 Landmark Papers Every Spine Surgeon Should Know Mar 05 2020 There has been an exponential increase in the volume and quality of published research relating to spine care over the last several decades. Among thousands of articles, a small fraction has been shown to be truly "game changing," forcing the entire field to pause and take notice. These landmark studies may describe a new procedure or surgical approach, evaluate the relative effects of known treatments or techniques, introduce a new classification system, or provide new insights into natural history or disease prognosis. Such studies form the foundations of spine surgery today. This book will be a useful reference not only to the established spine surgeon, but also to neurosurgery and orthopedic residents, as well as to spine surgery fellows as they continue to fortify their knowledge surrounding spinal disorders. Further, this will no doubt serve as a useful evidence-based resource for trainees studying for professional examinations and perhaps most importantly challenge and inspire clinicians to produce high-quality impactful research.

Manual of Spine Surgery Jan 15 2021 The success of any spinal operation depends on good definition of the indications, consideration of the contraindications, technical and organizational factors, good operating technique and correct preoperative preparation and positioning of the patient. These points are presented in this book as clearly as possible and are illustrated with detailed high quality artwork.

Spine Surgery Jan 03 2020 Praise for this book:[Four stars] This book is required reading for orthopedic and neurosurgical fellows and residents...very highly recommend[ed]...outstanding.--Doody's Review This best-selling book returns in a second edition covering the major procedures in spine surgery and the latest technical innovations in the field. Retaining the comprehensive scope and accessible presentation of the previous edition, the book distills the basic elements of each procedure using concise descriptions and simple line drawings. New sections of the book cover minimally invasive exposure methods, motion-sparing techniques, and the latest fixation techniques. Highlights: Each chapter outlines the essentials of the procedure in just a few pages Consistent presentation throughout the book enhances ease of use Tips, pearls, lessons learned, special considerations, pitfalls, and bailout, rescue, and salvage procedures emphasize critical points to help ensure a safe and effective procedure Nearly 500 illustrations demonstrate key technical points Concise and up-to-date, this book serves as an invaluable quick reference prior to surgery. It is ideal for clinicians and residents in spine surgery, orthopedics, and neurosurgery.

Revision Lumbar Spine Surgery E-Book Apr 29 2022 Offering in-depth coverage of an often-neglected topic, Revision Lumbar Spine Surgery identifies clinical problems and discusses recent major advances in this challenging area. Dr. Robert F. Heary and a team of international experts share their knowledge and experience with even the most difficult lumbar cases, helping you provide optimal outcomes for your patients. You'll find authoritative guidance on indications, diagnosis, approaches, and follow-up, with a focus on the significant advances that have occurred over the past two decades in this fast-changing field. Identifies the clinical problems related to unsuccessful back spine surgery as well as indications, diagnosis, and new treatment options and advances in this complex area. Provides in-depth information on the multiple options that exist for most clinical situations: anterior, posterior, lateral, and combined anterior and posterior approaches. Covers methods of fixation, the use of interbody grafting, and surgical planning related to scar tissues, bleeding, and spinal fluid leaks. Discusses critical follow-up topics such as key clinical procedures, radiography, patient reported outcomes, and pain management. Includes timely chapters on robotics, bone density issues, medical fitness concerns, instrumentation options, imaging considerations, and much more.

Adult and Pediatric Spine Trauma, An Issue of Neurosurgery Clinics of North America, E-Book Oct 31 2019 This issue will focus on both adult and pediatric spine trauma. Featured articles are as follows: Pharmacologic Treatment of SCI; Classification of Adult Subaxial Cervical Trauma; Classification and Management of Pediatric Craniocervical Injuries; Classification and Management of Pediatric Subaxial Injuries; Classification of Adult Thoracolumbar Injuries; Management of Pediatric Thoracolumbar Injuries; Treatment of Odontoid Fractures in the Aging Population; Treatment of Facet Fractures in the Cervical Spine; and many more!

Neurosurgical Operative Atlas: Spine and Peripheral Nerves May 19 2021 Written by a Who's Who of renowned spine surgeons, the third edition of Neurosurgical Atlas: Spine and Peripheral Nerves provides a detailed tutorial on the latest surgical procedures. The three comprehensive spine sections cover decompression modalities followed by fusion/instrumentation and fixation. Rounding out these sections are special topics such as vascular malformations in the spinal cord, stereotactic radiosurgery in the thoracic spine, and lumboperitoneal shunting. The peripheral nerves section includes treatment of conditions including carpal tunnel, brachial plexus, meralgia paresthetica, and cervical nerve root avulsion. Throughout the book, the authors provide minimally invasive options and clinical pearls on patient selection, preoperative preparation, anesthesia, operative positioning, surgical methodologies, patient monitoring, and common complications. Key Features Anterior, posterior, transoral, and lateral approaches to the craniocervical junction, subaxial cervical spine; and operations specific to the cervicothoracic junction Thoracic spine techniques for burst fractures, vertebral body metastasis, penetrating spine wounds, tumors, etc. Lumbosacral spine approaches for herniation, degenerative disease with multiplanar deformity, spondylolisthesis, and more Close to 700 illustrations and color photographs elucidate key concepts Superb videos demonstrate hands-on techniques This book is a must-have reference for neurosurgery residents seeking in-depth knowledge of spine and peripheral nerve procedures prior to scheduled cases. It will also benefit veteran neurosurgeons looking for clinical insights on infrequently performed surgeries.

Spine Surgery May 31 2022 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.

Challenging Concepts in Neurosurgery Mar 29 2022 Part of the Challenging Concepts in series, this book is a case-based guide to challenging clinical scenarios in neurosurgery covering the major sub-speciality areas of oncology, vascular neurosurgery, brain and spine trauma, paediatrics, spinal degenerative disease, peripheral and cranial nerves, functional neurosurgery and infection. Specific cases are examined with consideration of clinical presentation, diagnostics, and surgical principles, with a summary of evidence from the neurosurgical literature highlighting areas of interest and controversy. This book serves as a useful and engaging resource for consultants and trainees in neurosurgery as well as in the disciplines of neurology, maxillofacial surgery, spinal surgery and neuro-oncology.

Operative Techniques Oct 24 2021 Focusing solely on must-know procedures, Operative Techniques: Spine Surgery, 3rd Edition by Drs. Alexander R. Vaccaro and Eli Baron, 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. Surgical videos available online demonstrate how to perform state-of-the-art procedures. 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. Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, and references from the book on a variety of devices. Updated coverage includes hybrid surgery, coflex fusion, and modifications to the lateral transosseous approach.

MRI Atlas Nov 24 2021 This interdisciplinary atlas is the fruit of cooperation among radiologists, orthopedic surgeons, traumatologists, and neurosurgeons. Clinically oriented, it covers all important diseases and injuries of the spine. Numerous illustrations are supplemented by concise descriptions of anatomy and pathophysiology, normal and abnormal MRI appearance, diagnostic pitfalls, and the clinical significance of MRI. The didactic style establishes the fundamentals of spinal anatomy and disease as a basis for understanding diagnostic strategies and surgical management. By combining descriptions of the clinical manifestation of spinal disorders with the corresponding MRI findings, the book develops a meaningful approach to the interpretation of MRI of the spine.

Spine Surgery Dec 26 2021 This book covers the content of European postgraduate spine surgery courses, using a case-based approach. It describes a stepwise solution to a real-world clinical problem and compares this with the best available evidence. It then provides suggestions on how to bridge the gap (if there is one) between standard of care and evidence-based medicine. Spine Surgery: A Case-Based Approach is aimed at postgraduate students of spine surgery (both trainee neurosurgeons and trainee orthopedic surgeons), and is also of interest to medical students.

Spine and Peripheral Nerves Feb 02 2020 This volume, part of the second edition of the classic Neurosurgical Operative Atlas series, presents the latest techniques for managing the full range of spinal and peripheral nerve problems. Each chapter addresses a different surgical procedure, guiding the reader through patient selection, preoperative preparation, anesthetic techniques, patient monitoring, and surgical techniques and outcomes. The authors also discuss common complications and offer tips for how to avoid and manage them. Spine and Peripheral Nerves is ideal for residents to study and for established surgeons seeking a quick refresher in preparation for surgery. Neurosurgeons, orthopedists, and plastic surgeons will benefit from the wealth of information provided in this up-to-date clinical reference. Highlights: Renowned experts in the field share their clinical insights and extensive experience Concise, step-by-step descriptions enable the reader to rapidly review techniques More than 750 illustrations and images demonstrate key concepts Organized by anatomical location to aid quick reference Series description: The American Association of Neurological Surgeons and Thieme have collaborated to produce the second edition of the acclaimed Neurosurgical Operative Atlas series. Edited by leading experts in the field, the series covers the entire spectrum of neurosurgery in five volumes. In addition to Spine and Peripheral Nerves, the series also features: Neuro-Oncology, edited by Behnam Badie Vascular Neurosurgery, edited by R. Loch Macdonald Functional Neurosurgery, edited by Philip Starr, Nicholas M. Barbaro, and Paul Larson Pediatric Neurosurgery, edited by James Tait Goodrich

Controversies in Spinal and Cranial Surgery. An Issue of Neurosurgery Clinics of North America. E-Book Jun 07 2020 This issue of Neurosurgery Clinics focuses on Controversies in Spinal and Cranial Surgery. Article topics will include: Sacro-iliac Fusion; Interspinous Spacers; Bone Morphogenetic Protein, Platelet Concentrates and Other Biologics; MIS decompression; Pipeline flow diversion in subarachnoid hemorrhage; Direct versus indirect bypass for moyamoya disease; Management of prenatally diagnosed myelomeningocele; Management of incidental aneurysm; Surgical management of incidental low-grade glioma; and more!

Ethics in Neurosurgical Practice Dec 14 2020 A comprehensive introduction and practical framework to bioethics, for all who are involved in the management of neurosurgical patients.

Best Evidence for Spine Surgery Jun 19 2021 Best Evidence for Spine Surgery provides representative cases that help you determine the optimal surgical interventions for your patients. Drs. Rahul Jandial and Steven R. Garfin, and a balanced team of preeminent neurosurgeons and orthopaedists, address the trend toward a more collaborative approach between spine and orthopaedic surgery. This easy-to-read, evidence-based resource also features "Tips from the masters" for a quick review of

important elements of diagnosis and treatment and online access at www.expertconsult.com with fully searchable text and downloadable images. Choose the best options for your patients using evidence that supports the optimal surgical intervention for each case. Access the fully searchable text online at www.expertconsult.com, along with a downloadable image gallery and a video library demonstrating nuances of key techniques. Apply a multi-disciplinary approach through coverage that reflects the changing nature of the specialty with chapters written by neurosurgeons and orthopaedists. Quickly review the most important elements of diagnosis through "Tips from the masters." Easily find the information you need with a consistent, case-based format that clearly presents evidence and techniques. Best Evidence for Spine Surgery is the perfect resource for any surgeon interested in learning about the best evidence on cases for which there is debate regarding the surgical management. Information presented includes a thorough review of literature, technique, and cases as presented by preeminent spine surgeons. Information is presented from a balanced panel of orthopaedic and neurological surgeons, to articulate a collaborative approach that has been the natural evolution in the academic setting. This title presents a representative case and the evidence for the optimal surgical intervention for that case, within a format that makes the most important elements accessible and appealing.

Neuro Spinal Surgery Operative Techniques: Lateral Mass Fixation in Sub-axial Cervical Spine Nov 12 2020 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.

Handbook of Spine Surgery Feb 25 2022 Drawing on the experience of leaders in both neurosurgery and orthopedic surgery, Handbook of Spine Surgery is authoritative, concise, and portable, designed for use in a fast-paced clinical setting. Its coverage of both principles and techniques of contemporary spine surgery, including anatomy, pathology, procedures, and instrumentation, makes it highly useful as a refresher before surgery, an easily digestible study guide, or a daily companion for physicians caring for patients with spinal disorders. Key Features: An easy-to-read, bullet-style format that provides readable but not overwhelming content Surgical Pearls that tap into the experiences of surgeons who have mastered that procedure Common Clinical Questions (with answers) at the end of each chapter that highlight topics frequently encountered in the operating room and on board exams Superb visual examples that illuminate the procedures described Helpful appendices that cover positioning, spinal orthoses, and scales and outcome measures A first-of-its-kind, this handbook is designed to be the go-to guide for those conducting and involved in surgical spine treatment.

Operative Techniques: Spine Surgery E-Book Jan 27 2022 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.

Comparative Management of Spine Pathology - E-Book Oct 04 2022 Unique in the field, Comparative Management of Spine Pathology presents commonly encountered spinal cases with side-by-side, case-by-case comparisons that clearly show how various experts would handle the same case. This second volume in the Neurosurgery: Case Management Comparison Series offers multiple opinions from international experts in both neurosurgery and orthopaedics, each of whom explains their preferred approach and management style for the same case. This format allows for quick and helpful comparisons of different ways to approach a lesion, advantages and disadvantages of each approach, and what each expert is looking for in how they would manage a particular case. Offers 4 expert opinions on each case in a templated format designed to help you quickly make side-by-side comparisons—an ideal learning tool for both trainee and practicing neurosurgeons and orthopaedic surgeons for board review and case preparation. Helps you easily grasp different approaches to spine management with different expert approaches to the same case and summaries from the editors on the advantages and disadvantages to each approach. Features a wide variety of management decisions, from preoperative studies to surgical approach, surgical adjuncts, and postoperative care, from experts in the field who specialize in different aspects of spine surgery. Presents 70 cases in the areas of degenerative spine, traumatic spine, spinal deformity, spinal oncology, and miscellaneous topics such as epidural abscess, osteomyelitis, and post-instrumentation infection.

Atlas of Infections in Neurosurgery and Spinal Surgery May 07 2020 This Atlas is the first reference Atlas covering exclusively all aspects of this multifaceted topic. It is designed to serve as a succinct appropriate resource for neurosurgeons, spinal surgeons, radiologists, neurologists, microbiologists, researchers and infectious disease specialists with an interest in cranio-cerebral and vertebro-medullary infections especially encountered in neurosurgery and spinal surgery. This Atlas is designed to deliver more information in less space than traditional texts, allowing for quick review of the essential facts of this complex infectious topic through pictures. Pertinent imaging and laboratory information are combined with intraoperative photographs and illustrations to help readers visualize variable presentations and enhance their perioperative management. The comprehensive content of this richly-illustrated book covers different infectious diseases seen on neurosurgical and spinal

practices. The Atlas is divided into five sections, after a general introduction, the second section focuses on infections of the brain and its coverings. The third section focuses on vertebromedullary infections. The fourth section includes infections following cranial and spinal surgery, and the fifth section provides a description of the most important specific pathogens and other particular conditions. The format makes it easily accessible and includes a definition of each infection and its epidemiology, main clinical presentations, imaging features and laboratory findings, treatment options, and prognosis information. It will help the reader in choosing the most appropriate way to manage this multipart problem. In addition, the book supplies clinicians and investigators with both basic and more sophisticated information and procedures relating to the complications associated with neurosurgical and spinal infections.

Advances and Technical Standards in Neurosurgery Jul 21 2021 This volume of *Advances and Technical Standards in Neurosurgery* is devoted entirely to the spine. Like other volumes in the series, it presents important recent progress in the field and offers detailed descriptions of standard procedures to assist young neurosurgeons. Among the advances considered are approaches to spinal navigation, including intraoperative imaging based navigation, and concepts of spinal robotics. The value of sagittal balance as a parameter for the neurosurgeon is examined, and a novel surgical approach to longitudinal pathologies within the spinal canal is presented. Developments in surgery for kyphosis are also discussed, with a focus on pedicle subtraction osteotomy. The technical standards section critically reviews the latest evidence regarding cervical disc arthroplasty and pedicle-based non-fusion stabilization devices. The book concludes by discussing the treatment of craniovertebral junction instability as a result of juvenile chronic arthritis.

Proceedings of the 8th European Congress of Neurosurgery, Barcelona, September 6–11, 1987 Jul 09 2020 The 8th European Congress of Neurosurgery which took place in Barcelona from September 6 to 11, 1987, was an unforgettable experience. Many factors contributed to its success: the splendid ambience of Barcelona, the generous hospitality and warm friendship of the hosts, and the marvellous organization and high scientific standard of papers, workshops and discussions. For financial reasons it would not have been possible to publish all the papers presented during the congress. In order to preserve as much as possible of the scientific results, the Programme Committee of the European Association of Neurosurgical Societies had already selected before the congress a certain number of abstracts to be published as full papers. These are compiled in two supplement volumes of *Acta Neurochirurgica* and deal with the following main topics: Volume 1: 1. Intraoperative and posttraumatic monitoring and brain protection 2. Cerebro-vascular lesions 3. Intracranial tumours 4. Benign intracranial cystic lesions, hydrocephalus, CSF-volumes 5. Central pain syndromes Volume 2: 6. Spinal cord and spine pathologies 7. Basic research in neurosurgery. The Editors F. Isamat, A. Jefferson, F. Loew, L. Symon Contents Listed in Current Contents VI. Spinal Cord and Spine Pathologies Fornari, M., Pluchino, F., Solero, C. L., Giombini, S., Luccarelli, G., Oliveri, G., Lasio, G.: Microsurgical Treatment of Intramedullary Spinal Cord Tumours 3 Yasui, T., Hakuba, A., Katsuyama, 1., Nishimura, S.: Microsurgical Removal of Intramedullary Spinal Cord Tumours: Report of 22 Cases 9 . .

Essentials of Spine Surgery Sep 30 2019 This concise textbook covers the full spectrum of spine surgery-related topics in a comprehensive yet easy-to-follow, readily accessible format. Addressing trauma, deformity, degeneration, oncology and infections, both in pediatric and adult patients, it provides a broad overview of this complex surgical discipline. Subdivided into four parts, each chapter exhaustively addresses a clinical problem, ranging from signs and symptoms, physical examination through differential diagnoses and classification to treatment options, possible complications and follow-ups. In appendix the reader will find relevant classifications, indexes, questionnaires and quality of life assessments. Didactical videos complement the book illustrating essential basic spine surgery techniques in the daily practice. Written by an international panel of experts this practical and handy guide is an invaluable tool for trainees of both orthopedic surgery and neurosurgery, spine fellows, and junior spine surgeons.

The Resident's Guide to Spine Surgery Apr 17 2021 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.

Benzel's Spine Surgery E-Book Aug 22 2021 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.

Oxford Case Histories in Neurosurgery Apr 05 2020 Part of the Oxford Case Histories series, this volume includes 65 neurosurgical cases covering core topics specified in the UK Neurosurgical Training Curriculum. Cases are drawn from the following clinical areas: trauma, vascular neurosurgery, tumours, spinal neurosurgery, hydrocephalus and paediatric neurosurgery, functional neurosurgery, and medical problems in neurosurgery. Revolving around actual patients and the relevant knowledge required in specific situations for decision making in clinical practice, this book will serve as an invaluable educational tool to help trainees, doctors, and practising neurosurgeons manage the a wide variety of clinical scenarios encountered in neurosurgery.

Spinal Tumor Surgery Sep 22 2021 This practical, step-wise text covers the surgical approaches, resection strategies and reconstruction techniques used for each type of presenting tumor of the spine. Demonstrating the variety of anterior, posterior and intradural approaches and stabilization techniques, and spanning from pathologies of the craniocervical region to sacral and intradural pathologies, each chapter is generously illustrated with figures, radiographs and intraoperative photos. The chapters themselves follow a consistent and user-friendly format: the anatomy and biomechanics of a specific region, patient evaluation, essential oncologic principles, the decision-making process, and technical steps of surgery. A representative case illustration is provided at the conclusion of each chapter, exemplifying pertinent concepts described. Additionally, video segments accompany selected chapters, providing real-time illustration of surgical techniques. Technical and in-depth, yet highly accessible, *Spinal Tumor Surgery: A Case-Based Approach* is an essential resource for orthopedic spine surgeons, neurosurgeons, and surgical oncologists operating on tumors of the spine.

Revision Lumbar Spine Surgery Aug 02 2022 Offering in-depth coverage of an often-neglected topic, *Revision Lumbar Spine Surgery* identifies clinical problems and discusses recent major advances in this challenging area. Dr. Robert F. Heary and a team of international experts share their knowledge and experience with even the most difficult lumbar cases, helping you provide optimal outcomes for your patients. You'll find authoritative guidance on indications, diagnosis, approaches, and follow-up, with a focus on the significant advances that have occurred over the past two decades in this fast-changing field. Identifies the clinical problems related to unsuccessful back spine surgery as well as indications, diagnosis, and new treatment options and advances in this complex area. Provides in-depth information on the multiple options that exist for most clinical situations: anterior, posterior, lateral, and combined anterior and posterior approaches. Covers methods of fixation, the use of interbody grafting, and surgical planning related to scar tissues, bleeding, and spinal fluid leaks. Discusses critical follow-up topics such as key clinical procedures, radiography, patient reported outcomes, and pain management. Includes timely chapters on robotics, bone density issues, medical fitness concerns, instrumentation options, imaging considerations, and much more. Enhanced eBook version included with purchase. Your enhanced eBook allows you to access all of the text, figures, and references from the book on a variety of devices.

Minimally Invasive Spine Surgery Techniques Sep 10 2020 This book includes operative videos and teaches the reader how to perform all currently available minimally invasive spine surgery (MISS) techniques. Each chapter covers a MISS procedure and includes an introduction, indications and contraindications, surgical technique, pitfalls and pearls, discussion, conclusion, references, videos and figures. *Minimally Invasive Spine Surgery Techniques* is aimed at spine surgeons who are interested in learning or improving their MISS skills.

Controversies in Spine Surgery, MIS versus OPEN Aug 10 2020 Master spine surgeons Alexander R. Vaccaro, Richard G. Fessler, and a cadre of esteemed co-editors have compiled the most comprehensive textbook to date detailing minimally invasive spine (MIS) versus open spine surgery techniques. *Controversies in Spine Surgery, MIS versus OPEN: Best Evidence Recommendations* features debates by renowned experts on one of the most provocative topics in spine surgery. Twenty-four chapters systematically organized into four sections — degenerative, trauma, tumor, and other issues, cover procedures and underlying pathologies, backed by a large, diverse body of literature. MIS and open approaches are thoroughly compared and contrasted in each chapter. Evidence is presented and analyzed in an objective manner with 'opposing sides' presenting differing opinions and techniques, resulting in a synchronous collection of pros and cons. Every chapter is masterfully summed up by the book's editors — each of whom have varying stances on the topics at hand. This unique 'duel' and 'duet' discussion enables readers to assimilate information, benefit from the balanced harmony between divergent opinions, and reach their own conclusions. **Key Highlights** Comparative risks, benefits, complications, and outcomes for a full spectrum of lumbar, thoracic and cervical procedures MIS versus open approaches for lumbar stenosis, synovial cysts, lumbar adjacent segment degeneration, degenerative scoliosis, flatback syndrome, thoracic disc herniation, and dural tears Tumor resection and stabilization, quality of life issues, and potential advantages and risks of MIS techniques Key differences in MIS versus open operations such as radiation exposure and costs Analysis of 3-D navigational imaging to improve outcomes and reduce radiation exposure and operating time This book is a tremendous, evidence-based tool to guide spine surgeons as they make important decisions on selecting the most optimal spine surgery techniques. It is a must-have resource for all resident and veteran orthopaedic surgeons and neurosurgeons who specialize in treating patients with spine conditions. Alexander R. Vaccaro, MD, PhD, FACS, MBA, is Richard H. Rothman Professor and Chairman, Department of Orthopaedic Surgery, and Professor of Neurosurgery, Thomas Jefferson University and Hospitals; and President, The Rothman Institute, Philadelphia, Pennsylvania, USA. Richard G. Fessler, MD, PhD, is Professor, Department of Neurosurgery,

Rush University Medical Center, Chicago, Illinois, USA. Faheem A. Sandhu, MD, PhD, is Professor of Neurosurgery, Director of Spine Surgery, and Co-Director, Center for Minimally Invasive Spine Surgery, Department of Neurosurgery, MedStar Georgetown University Hospital, Washington, DC, USA. Jean-Marc Voyadzis, MD, is Co-Director, Center for Minimally Invasive Spine Surgery and Associate Professor of Neurosurgery, MedStar Georgetown University Hospital, Washington, DC, USA. Jason C. Eck, DO, MS, is an Orthopaedic Spine Surgeon, Center for Sports Medicine and Orthopedics, Chattanooga, Tennessee, USA. Christopher K. Kepler, MD, MBA, is an Associate Professor and Orthopaedic Spine Surgeon, Department of Orthopaedic Surgery, Thomas Jefferson University and Hospitals, and The Rothman Institute, Philadelphia, Pennsylvania, USA. An award-winning international medical and scientific publisher, Thieme has demonstrated its commitment to the highest standard of quality in the state-of-the-art content and presentation of all its products. Founded in 1886, the Thieme name has become synonymous with high quality and excellence in online and print publishing.

Surgery of the Spine and Spinal Cord Nov 05 2022 This book offers essential guidance on selecting the most appropriate surgical management option for a variety of spinal conditions, including idiopathic problems, and degenerative disease. While the first part of the book discusses the neuroanatomy and biomechanics of the spine, pain mechanisms, and imaging techniques, the second guides the reader through the diagnostic process and treatment selection for disorders of the different regions of the spine, based on the principles of evidence-based medicine. I.e., it clearly explains why a particular technique should be selected for a specific patient on the basis of the available evidence, which is carefully reviewed. The book identifies potential complications and highlights technical pearls, describing newer surgical techniques and illustrating them with the help of images and accompanying videos. Though primarily intended for neurosurgeons, the book will also be of interest to orthopaedic surgeons, specialists in physical medicine, and pain specialists.