Spinal Deformities

A complete, evidence-based guide to orthopaedic evaluation and treatment. Acclaimed in its first edition, this one-of-a-kind, well-illustrated resource delivers a vital evidence-based look at orthopaedics in a single volume. It is the ultimate source of orthopaedic examination, evaluation, and interventions, distinguished by its multidisciplinary approach to PT practice. Turn to any page, and you'll find the consistent, unified voice of a single author—a prominent practicing therapist who delivers step-by-step guidance on the examination of each joint and region. This in-depth coverage leads clinicians logically through systems review and differential diagnosis, aided by decision-making algorithms for each joint. It's all here: everything from concise summaries of functional anatomy and biomechanics, to an unmatched overview of the musculoskeletal and nervous systems.

Clinical Anatomy and Management of Cervical Spine Pain

Many hundreds of thousands suffer spinal cord injuries leading to loss of sensation and motor function in the body below the point of injury. Spinal cord research has made some significant strides towards new treatment methods, and is a focus of many laboratories worldwide. In addition, research on the involvement of the spinal cord in pain and the abilities of
nervous tissue in the spine to regenerate has increasingly been on the forefront of biomedical research in the past years. The Spinal Cord, a collaboration with the Christopher and Dana Reeve Foundation, is the first comprehensive book on the anatomy of the mammalian spinal cord. Tens of thousands of articles and dozens of books are published on this subject each year, and a great deal of experimental work has been carried out on the rat spinal cord. Despite this, there is no comprehensive and authoritative atlas of the mammalian spinal cord. Almost all of the fine details of spinal cord anatomy must be searched for in journal articles on particular subjects. This book addresses this need by providing both a comprehensive reference on the mammalian spinal cord and a comparative atlas of both rat and mouse spinal cords in one convenient source. The book provides a descriptive survey of the details of mammalian spinal cord anatomy, focusing on the rat with many illustrations from the leading experts in the field and atlases of the rat and the mouse spinal cord. The rat and mouse spinal cord atlas chapters include photographs of Nissl stained transverse sections from each of the spinal cord segments (obtained from a single unfixed spinal cord), detailed diagrams of each of the spinal cord segments pictured, delineating the laminae of Rexed and all other significant neuronal groupings at each level and photographs of additional sections displaying markers such as acetylcholinesterase (AChE), calbindin, calretinin, choline acetyltransferase, neurofilament protein (SMI 32), enkephalin, calcitonin gene-related peptide (CGRP), and neuronal nuclear protein (NeuN). The text provides a detailed account of the anatomy of the mammalian spinal cord and surrounding musculoskeletal elements The major topics addressed are: development of the spinal cord; the gross anatomy of the spinal cord and its meninges; spinal nerves, nerve roots, and dorsal root ganglia; the vertebral column, vertebral joints, and vertebral muscles; blood supply of the spinal cord; cytoarchitecture and chemoarchitecture of the spinal gray matter; musculotopic anatomy of motoneuron groups; tracts connecting the brain and spinal cord; spinospinal pathways; sympathetic and parasympathetic elements in the spinal cord; neuronal groups and pathways that control micturition; the anatomy of spinal cord injury in experimental animals; The atlas of the rat and mouse spinal cord has the following features: Photographs of Nissl stained transverse sections from each of 34 spinal segments for the rat and mouse; Detailed diagrams of each of the 34 spinal segments for rat and mouse, delineating the laminae of Rexed and all other significant neuronal groupings at each level. ; Alongside each of the 34 Nissl stained segments, there are additional sections displaying markers such as acetylcholinesterase, calbindin, calretinin, choline acetyltransferase, neurofilament protein (SMI 32), and neuronal nuclear protein (NeuN) All the major motoneuron clusters are identified in relation to the individual muscles or muscle groups they supply.


In this volume, world authorities on spinal surgery from the fields of Neurosurgery, Orthopaedic Surgery, and Neuroscience present current data on the basic science and clinical management of the unstable spine. Unique to this book: a frank
presentation of controversies in the field.

**Balloon Kyphoplasty**

**Cervical Spine Surgery: Standard and Advanced Techniques**

Authored by a multi-disciplinary team that includes orthopedists and neurosurgeons, Textbook of the Cervical Spine is a practical, clinically focused medical reference for treating patients with the full range of cervical spine disorders. From degenerative spine conditions and inflammation, to trauma and infections, it guides today’s spine surgeons, orthopaedic surgeons, neurosurgeons and residents through state-of-the-art surgical and fixation techniques, today's emerging technologies, and possible complications. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Accurately handle complex situations with image-guided techniques for the management of cervical spine pathology, as well as helpful information on patient management and surgical decision making. Stay up to date on hot topics with recent case studies that orient you toward important clinical information in the field. Quickly find the information you need with succinct chapters that focus on highlights, key points, tips, and tricks.

**Anatomy and Physiology**

This new edition contains chapters on very complicated, large procedures such as the approaches to the sacrum and the pelvis, and also includes minimally invasive procedures like laparoscopic fusion. Minimally invasive surgery is the future of spinal surgery; this book is unrivaled in its coverage of these procedures. This edition also continues the tradition of presenting clearly enumerated and illustrated step-by-step surgical procedures for the spine. New to this edition are chapters on the anterior approach to clivus C1 & C2, transclavicular cervico-thoracic approach, transsternal approach to the cervico thoracic & upper thoracic spine, approaches to the sacrum & pelvis, and laparoscopic approaches. Other new features include: new material on large major resection of spinal cancer; the most modern endoscopic techniques; and expanded laparoscopic/MIS approaches. Contributors are top authorities in the field. Procedures are beautifully illustrated in full color.

**Fractures of the Cervical, Thoracic, and Lumbar Spine**

Complete Vocal Fitness is a primer on sport-specific training for vocalists and a guide to how the vocal instrument functions. Elite athletes apply cutting-edge research in movement and physiology to customize fitness regimens that ensure peak
Get Free The Cervical And Thoracic Spine Mechanical Diagnosis And Therapy 2 Volume Set

performance for singers.

**Atlas of Head/Neck and Spine Normal Imaging Variants**

Leave back pain behind. For the millions of back pain sufferers, the causes can be numerous, making the search for relief frustrating and complex. The Complete Idiot's Guide® to Back Pain and its expert authors explain the many causes of back pain and provide the best methods and techniques for relief and prevention of back pain and maintaining a healthy back.

- Do-it-yourself relief
- Conventional and alternative options
- Chronic pain management
- Exercises, yoga, and Pilates to keep the back healthy

**The Cervical and Thoracic Spine**

Spine Secrets Plus—a Secrets Series® title in the new PLUS format—gives you the answers you need to succeed on your rotations, your boards, and your career. Dr. Vincent J. Devlin provides the expert perspective you need to grasp the nuances of spine surgery and related specialties. This new edition offers expanded coverage, a larger format, and colorful visual elements to provide an overall enhanced learning experience. All this, along with the popular question-and-answer approach, makes it a perfect concise board review tool and a handy clinical reference. Prepare effectively with the proven question-and-answer format of the highly acclaimed Secrets Series®. Master all common conditions and their treatments. Identify key facts using the "Top 100 Secrets". Review material quickly thanks to bulleted lists, tables, and short answers. Apply memory aids and "secrets" from experts in the field. Get an overall enhanced learning experience from the new PLUS format, with an expanded size and layout for easier review, more information, and full-color visual elements. Stay current on the latest standards in medical care thanks to extensive updates, including new chapters on Spinal Cord Stimulation and Implantable Drug Delivery Systems, Special surgical Techniques for the Growing Spine, Pathophysiology of Degenerative Disorders of the Spine, Discogenic Low Back Pain, Treatment Options for Osteoporotic Vertebral Compression Fractures, and Disorders Affecting the Spinal Cord and Nerve Roots. See a clearer picture of what you encounter in practice through larger, detailed images and illustrations. Find information quickly and easily with additional color that enhances tables, legends, key points, and websites.

**Osteopathic Mechanics**

**Biomechanics of the Spine**
Spinal cord injury is a severe condition leading to serious neurological dysfunctions and changes a person's life in a sudden way. Understanding the pathophysiology of spinal cord injury will improve the prognosis and reintegration to the society of spinal cord-injured subjects. The book Essentials in Spinal Cord Injury Medicine includes seven chapters with valuable information addressing hot topics related to spinal cord injury, ranging from pathophysiology, nontraumatic spinal cord injury, complications to exoskeletons, and research therapies with mesenchymal stem cells. The book could be a valued reference for physiatrists, neurosurgeons, orthopedic surgeons, neurologists and physical therapists.

**Surgical Anatomy and Techniques to the Spine**

Biomechanics of the Spine encompasses the basics of spine biomechanics, spinal tissues, spinal disorders and treatment methods. Organized into four parts, the first chapters explore the functional anatomy of the spine, with special emphasis on aspects which are biomechanically relevant and quite often neglected in clinical literature. The second part describes the mechanics of the individual spinal tissues, along with commonly used testing set-ups and the constitutive models used to represent them in mathematical studies. The third part covers in detail the current methods which are used in spine research: experimental testing, numerical simulation and in vivo studies (imaging and motion analysis). The last part covers the biomechanical aspects of spinal pathologies and their surgical treatment. This valuable reference is ideal for bioengineers who are involved in spine biomechanics, and spinal surgeons who are looking to broaden their biomechanical knowledge base. The contributors to this book are from the leading institutions in the world that are researching spine biomechanics. Includes broad coverage of spine disorders and surgery with a biomechanical focus Summarizes state-of-the-art and cutting-edge research in the field of spine biomechanics Discusses a variety of methods, including In vivo and In vitro testing, and finite element and musculoskeletal modeling

**Textbook of the Cervical Spine E-Book**

This one-of-a-kind text describes the specific anatomy and neuromusculoskeletal relationships of the human spine, with special emphasis on structures affected by manual spinal techniques. A comprehensive review of the literature explores current research of spinal anatomy and neuroanatomy, bringing practical applications to basic science. A full chapter on surface anatomy includes tables for identifying vertebral levels of deeper anatomic structures, designed to assist with physical diagnosis and treatment of pathologies of the spine, as well as evaluation of MRI and CT scans. High-quality, full-color illustrations show fine anatomic detail. Red lines in the margins draw attention to items of clinical relevance, clearly relating anatomy to clinical care. Spinal dissection photographs, as well as MRIs and CTs, reinforce important anatomy concepts in a clinical context. Revisions to all chapters reflect an extensive review of current literature. New chapter on the pediatric spine discusses the unique anatomic changes that take place in the spine from birth through adulthood, as well as
important clinical ramifications. Over 170 additional illustrations and photos enhance and support the new information covered in this edition.

**Atlas of Surgical Techniques in Trauma**

**100 Challenging Spinal Pain Syndrome Cases**

Imaging in Spine Surgery tailors the highly regarded Diagnostic Imaging series templates with radiology images and color graphics to the needs of neurosurgeons, orthopedic spine surgeons, pain management and rehab (PM&R) physicians, and anesthesiologists. It provides clinical information for diagnosis and appropriate care for the patient, resulting in the perfect comprehensive text for spine surgeons. Combines chapters that include all entities that neurosurgeons, orthopedic spine surgeons, PM&R physicians, and anesthesiologists who do spine procedures are likely to encounter from the following Amirsys radiology titles: Imaging Anatomy: Musculoskeletal by Manaster Diagnostic Imaging: Spine by Ross Specialty Imaging: Craniovertebral Junction by Ross Specialty Imaging: Postoperative Spine by Ross Specialty Imaging: Pain Management by LaBarge Allows readers to understand the significance of a given radiologic finding and what should be done next for the appropriate care of that patient. Each chapter contains Key Facts and 4 images (a mix of radiology images and drawings) with captions and extensive annotations designed specifically for surgeons, important clinical information, and definitions and clarifications of unfamiliar radiology nomenclature. Selected prose intros and imaging anatomy chapters help nonradiology clinicians quickly master the key points of imaging relevant to spine surgery. Written at a level accessible to neurosurgery and orthopedic residents, but also contains "pearls" the most experienced surgeons will find useful.

**Tumors of the Spine**

Neuroimaging, Part Two, a volume in The Handbook of Clinical Neurology series, illustrates how neuroimaging is rapidly expanding its reach and applications in clinical neurology. It is an ideal resource for anyone interested in the study of the nervous system, and is useful to both beginners in various related fields and to specialists who want to update or refresh their knowledge base on neuroimaging. This second volume covers imaging of the adult spine and peripheral nervous system, as well as pediatric neuroimaging. In addition, it provides an overview of the differential diagnosis of the most common imaging findings, such as ring enhancement on MRI, and a review of the indications for imaging in the most frequent neurological syndromes. The volume concludes with a review of neuroimaging in experimental animals and how it relates to neuropathology. It brings broad coverage of the topic using many color images to illustrate key points. Contributions from leading global experts are collated, providing the broadest view of neuroimaging as it currently stands.
For a number of neurological disorders, imaging is not only critical for diagnosis, but also for monitoring the effect of therapies, with the entire field moving from curing diseases to preventing them. Most of the information contained in this volume reflects the newness of this approach, pointing to the new horizon in the study of neurological disorders. Provides a relevant description of the technologies used in neuroimaging, such as computed tomography, magnetic resonance imaging, positron emission tomography, and several others Discusses the application of these techniques to the study of brain and spinal cord disease Explores the indications for the use of these techniques in various syndromes

**Treat Your Own Neck**

Extensively illustrated and evidence based, Movement System Impairment Syndromes of the Extremities, Cervical and Thoracic Spines helps you effectively diagnose and manage musculoskeletal pain. It discusses diagnostic categories and their associated muscle and movement imbalances, and makes recommendations for treatment. Also covered is the examination itself, plus exercise principles, specific corrective exercises, and the modification of functional activities. Case studies provide examples of clinical reasoning, and a companion Evolve website includes video clips of tests and procedures. Written and edited by the leading experts on muscle and movement, Shirley Sahrmann and associates, this book is a companion to the popular Diagnosis and Treatment of Movement Impairment Syndromes. An organized and structured method helps you make sound decisions in analyzing the mechanical cause of movement impairment syndromes, determining the contributing factors, and planning a strategy for management. Detailed, yet clear explanations of examination, exercise principles, specific corrective exercises, and modification of functional activities for case management provide the tools you need to identify movement imbalances, establish the relevant diagnosis, and develop the corrective exercise prescription. Case studies illustrate the clinical reasoning used in managing musculoskeletal pain. Evidence-based research supports the procedures covered in the text. Over 360 full-color illustrations -- plus tables and summary boxes -- highlight essential concepts and procedures. A companion Evolve website includes video clips demonstrating the tests and procedures and printable grids from the book.

**Spine Secrets Plus E-Book**

**Interventional Spine E-Book**

This text provides a comprehensive overview of the normal variations of the neck, spine, temporal bone and face that may simulate disease. Comprised of seven chapters, this atlas focuses on specific topical variations, among them head-neck variants, orbital variants, sinus, and temporal bone variants, and cervical, thoracic, and lumbar variations of the spine. It
also includes comparison cases of diseases that should not be confused with normal variants. Atlas of Head/Neck and Spine Normal Imaging Variants is a much needed resource for a diverse audience, including neuroradiologists, neurosurgeons, neurologists, orthopedists, emergency room physicians, family practitioners, and ENT surgeons, as well as their trainees worldwide.

**Physical Therapy of the Cervical and Thoracic Spine**

Achieve optimal outcomes for your patients with this new multimedia reference. Organized by tumor then by region, this resource details diagnostic and therapeutic options for primary and malignant spinal tumors. Over 25 key procedures—including minimally invasive surgery—are presented in a concise, stepwise fashion, putting the key information you need right at your fingertips! Over 600 illustrations round out this exhaustive new reference. Keep up to date on the latest advances in diagnosis and therapy with discussions of the latest surgical techniques, including minimally invasive spine surgery. Chapter templating helps you understand the entire procedure as well as key aspects, pearls and pitfalls, before heading into the OR. Have all the information you need to make a diagnosis and plan patient management with oversized, full color clinical photos and line drawings that illustrate key diagnoses and surgical procedures.

**Spinal Instability**

Outlines a remedy for back and neck pain, and takes readers through a seven-step program of posture correction and exercises.

**Essentials of Spinal Cord Injury Medicine**

Describes the basics of spinal disorders, covering such topics as surgical techniques, complications, radiology, and surgical anatomy.

**Complete Vocal Fitness**

An overview of the subject for physical therapists presented in three sections: anatomy, biomechanics, and innervation; examination and assessment; and clinical management. Covers treatment by passive movement, recognizing four mechanisms of neurogenic pain, and management of neural injury by manual therapy. Includes discussion linking science, art, and placebo in manual therapy. This second edition contains eight new chapters. Annotation copyright by Book News, Inc., Portland, OR
Diseases of the Brain, Head and Neck, Spine 2020-2023

This text highlights the value of a team approach to appreciating the complexity of spinal pain and a range of treatment approaches. Contemporary contributions from epidemiology, anatomy, pathology, biomechanics, clinical medicine orthopaedics, chiropractic, osteopathy and physiotherapy are presented. Each section, written by experienced experts, provides a summary of pertinent material which will lead to an improved understanding of the causes of cervical spine pain.

Spinal Anatomy

Featuring an expanded focus on in-demand endoscopic and minimally invasive spine procedures, Surgical Anatomy and Techniques to the Spine, 2nd Edition pairs new anatomic photographs and radiographic images with expertly rendered color illustrations and clear, step-by-step descriptions to help you effectively perform all of the latest and most effective spine surgery techniques. A multidisciplinary approach makes this medical reference book relevant and informative to all surgeons regardless of their specialty or level of surgical experience with the spine. Proceed with confidence. An atlas-style format featuring clear, concise, step-by-step descriptions of the anatomy and procedures along with clinical hints and pearls, tables, and management algorithms providing swift answers and trusted guidance. Sharpen your surgical acumen with a deeper understanding of the anatomy of the surgical target and related anatomy. Comprehensive information on cervical, cervical/thoracic, thoracic/lumbar, lumbar spine, lumbar/pelvis, and other surgical locations ensures the best approaches to spine surgery and results. Understand the spine from all angles with multiple-viewpoint, full-color photographs, and illustrations. Master surgical anatomy of the spine and the latest minimally invasive techniques. Sweeping revisions and updates—including 22 new chapters—provide new and expanded coverage of spine surgery procedures and topics such as surgical management in gunshot wound to the spine, vertebroplasty, and kyphoplasty. Visualize every step of each procedure thanks to new anatomic photographs and radiographic images, corresponding with expertly rendered illustrations which more in-depth than ever before. Access the entire text and illustrations online, fully searchable, at Expert Consult. With over 60 additional contributors.

The Complete Idiot's Guide to Back Pain

This comprehensive, up-to-date textbook of modern cervical spine surgery describes the standard and advanced techniques recommended by the Cervical Spine Research Society – European Section (CSRS-E) with a view to enabling both young and experienced surgeons to further develop their skills and improve their surgical outcomes. Success in cervical spine surgery depends on the surgeon’s awareness of the main challenges posed by distinct cervical spine diseases, theoretical understanding of treatment concepts, and knowledge of technical options and the related potential for complications. It is
the surgeon who has to merge theory and practice to achieve the desired outcome, in each case appraising the details of surgical anatomy and weighing the challenges and complications associated with a surgical technique against the skills that he or she possesses. This excellently illustrated book, written by key opinion makers from the CSRS-E with affiliated surgeons as co-authors, presents the full range of approaches and techniques and clearly identifies indications, precautions, and pitfalls. It will be a superb technical reference for all cervical spine surgeons, whether orthopaedic surgeons or neurosurgeons.

**Functional Anatomy of the Spine**

The long awaited second edition of this landmark publication has up-to-date review of disc pathology and new pathobiomechanics data. Updated and expanded descriptions of derangement, dysfunction and postural syndromes. Clinical reasoning, conceptual model and a review of related literature. The full compendium of study that has been published since 1981 pertaining to the lumbar intervertebral disc and the McKenzie system. Illustrated - Paperback - 732 pages

**The Comprehensive Treatment of the Aging Spine E-Book**

This richly illustrated and comprehensive book covers a broad range of normal and pathologic conditions of the vertebral column, from its embryology to its development, its pathology, its dynamism and its degeneration. The dynamic anatomy of the living subject is viewed using the latest technologies, opening new perspectives to elucidate the pathology of the spine and improve spinal surgery. The respective chapters review in depth all sections of the vertebral column and offer new insights, e.g. the 3D study of vertebral movements using the “EOS system,” which makes it possible to define an equilibrium of posture and its limits. New histological and chemical findings on the intervertebral disc, as well as detailed descriptions of the aponeuroses and fasciae, are also provided. Bringing together the experience of several experts from the well-known French school, this book offers a valuable companion for skilled experts and postgraduate students in various fields: orthopedic surgery, neurosurgery, physiotherapy, rheumatology, musculoskeletal therapy, rehabilitation, and kinesiology.

**Endoscopic Spine Surgery**

Hundreds of high-quality intra-operative photos of fresh human cadavers create a uniquely realistic step-by-step guide to surgical trauma procedures.

**Surgical Approaches to the Spine**

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This open access book offers an essential overview of brain, head and neck, and spine imaging. Over the last few years, there have been considerable advances in this area, driven by both clinical and technological developments. Written by leading international experts and teachers, the chapters are disease-oriented and cover all relevant imaging modalities, with a focus on magnetic resonance imaging and computed tomography. The book also includes a synopsis of pediatric imaging. IDKD books are rewritten (not merely updated) every four years, which means they offer a comprehensive review of the state-of-the-art in imaging. The book is clearly structured and features learning objectives, abstracts, subheadings, tables and take-home points, supported by design elements to help readers navigate the text. It will particularly appeal to general radiologists, radiology residents, and interventional radiologists who want to update their diagnostic expertise, as well as clinicians from other specialties who are interested in imaging for their patient care.

**7 Steps to a Pain-Free Life**

Provides therapists with the background knowledge that they require before they can safely and accurately treat patients with musculoskeletal disorders of the spine. It should be invaluable to all those practitioners who regularly treat spinal dysfunction.

**Neuroimaging**

This publication addresses physical therapists working with patients with neck and/or back pain-how to assess and how to treat these patients. The text covers anatomy, biomechanics and innervation in the first section, then presents examination and assessment of the patient and clinical management in the second and third sections of the text.

**Physical Therapy of the Cervical and Thoracic Spine**

This is the first book to cover minimal-invasive treatment of osteoporotic, tumorous and traumatic vertebral fractures in the English language. In addition to detailed descriptions of the techniques, including tips and tricks from experts, the book contains a chapter about the medical treatment of osteoporosis, which is indispensable in the interdisciplinary approach to osteoporosis. This acclaimed innovative concept unites several treatment aspects. More conservative treatment methods are also presented in this work. All chapters reflect new developments and clinical findings in the field of orthopaedics, surgery, traumatology and neurosurgery.

**The Lumbar Spine**
The new edition of 50 Challenging Spinal Pain Syndrome Cases brings together a total of 100 individual studies ranging from the common and comparatively straightforward to the more complex. Content is presented in a clear layout with details of case history, aetiology, physical examination, imaging and, when necessary, laboratory test results of patients, diagnosis, treatment and results, key points and suggestions for further reading. Comparisons between imaging and similar anatomical and or histopathological findings are used. Questions of anatomy are clarified and the cases are comprehensively illustrated with radiographs and scans to enable the reader to see the most likely nature of the pathology causing the patient's spinal pain syndrome. The problem-solving approach keeps the emphasis on the practical and corrects some common myths about spinal pain treatment. Taken together, these cases make up a book, which students, practitioners and everyone interested in the spine will want to own and constantly refer to. New cases, particularly in the cervical and thoracic spine sections, detailed section on possible anatomical pain generators, colour photomicrographs.

**The Spinal Cord**

As many as 80% of patients will suffer from back pain at some point in their lifetime. It is the most common form of disability, and the second largest cause of work absenteeism. An early, proactive management approach offers the best route to minimizing these conditions. Renowned authority Curtis W. Slipman, MD and a team of multidisciplinary authorities present you with expert guidance on today's best non-surgical management methods, equipping you with the knowledge you need to offer your patients optimal pain relief. Refresh your knowledge of the basic principles that must be understood before patients with spinal pain can be properly treated. Know what to do when first-line tests and therapies fail, using practice-proven diagnostic and therapeutic algorithms. Offer your patients a full range of non-surgical treatment options, including pharmacology, physical therapy, injection techniques, ablative procedures, and percutaneous disc decompression. Make an informed surgical referral with guidance on indications, contraindications, methods, and postoperative rehabilitation. Better understand key techniques and procedures with visual guidance from more than 500 detailed illustrations.

**Imaging in Spine Surgery E-Book**

A succinct reference that fosters a rapid mastery of the key concepts and core knowledge in spine surgery. It begins with a review of spinal anatomy and the examination techniques most relevant to the diagnosis of suspected spinal disorders. The remainder of the book progresses logically from the most commonly seen clinical problems to the least frequently encountered ones, and outline the appropriate management techniques, both surgical and non-surgical. With an authorship composed primarily of members of the acclaimed Rothman Institute spine surgery staff, this book embodies a consistent, cohesive approach based on a wealth of hands-on experience.

This reference focuses on individualized spinal injury assessments, immobilization techniques, nonoperative and operative indications, operative fixation strategies, and prognoses. Containing over 1900 references, Fractures of the Cervical, Thoracic, and Lumbar Spine is an invaluable resource for orthopedic, spinal, and trauma surgeons; neurosurgeon

Orthopaedic Examination, Evaluation, and Intervention

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.

Scoliosis and kyphosis

Severe forms of the disease that develop in the early childhood should be identified. These are caused by anomalies of the vertebrae and structural defects of the thorax. If left untreated, they may cause a significant reduction in lung volume,
functional disturbance of the spinal cord and the development of a severe malposition. A suspicion of scoliosis in a child less than 5 years of age is always an indication to refer the child to specialized care for investigations. Therapy with a supportive back brace started early enough may prevent the worsening of idiopathic adolescent scoliosis in girls and surgical treatment may thus be avoided. Indications for surgical treatment include correction of severe malposition and securing of respiratory function, as well as alleviation of back pain and cosmetic improvement of the back shape.

**Spine**

The Comprehensive Treatment of the Aging Spine provides all the state-of-the-art coverage you need on both operative and non-operative treatments for different clinical pathologies of the aging spine. Dr James Yue and a team of talented, pioneering orthopedic surgeons and neurosurgeons cover hot topics like minimally invasive fusion, dynamic stabilization, state-of-the-art intraspinal and biologic devices, and more in print and online. Search the full text and access a video library online at expertconsult.com. Master the very latest techniques and technologies through detailed step-by-step surgical instructions, tips, and pearls. Stay current on the state-of-the-art in intraspinal and biologic devices—such as Stent (Alphatec) and Optimesh Spineology; thoracic techniques—kyphoplasty, vertebroplasty, and spacers; and conservative treatment modalities—including injection therapies, acupuncture, and yoga. Make expert-guided decisions on techniques and device selection using the collective clinical experience of pioneering editors and contributors. Identify the advantages and disadvantages for the full range of available microsurgical and endoscopic techniques for management of cervical, thoracic, and lumbar spine pathology—minimally invasive fusion, reconstruction, decompression, and dynamic stabilization.

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