Spinal Imaging Diagnostic Imaging Of The Spine And Spinal Cord Medical Radiology Book Mediafil | 9a9c299125e0f530cacf510e7dee0abd


Covering the entire spectrum of this fast-changing field, Diagnostic Imaging: Spine, fourth edition, is an invaluable resource for general radiologists, neuroradiologists, and trauma—anyone who requires an easily accessible, highly visual reference on today’s spinal imaging. Drs. Jeffrey Ross, Kevin Moore, and their team of highly regarded experts provide updated information on disease identification and imaging techniques to help you make informed decisions at the point of care. This text is lavishly illustrated, delineated, and referenced, making it a useful learning tool as well as a handy reference for daily practice. Serves as a one-stop resource for key concepts and information on radiologic imaging and interpretation of spine, spinal cord, and bony vertebral conditions. Features more than 2,600 full-color illustrations, including radiologic, pathologic, and clinical images. Contains new chapters on recent surgery protocols such as spine instability neoplastic scoring (SINS) and epidural spinal cord compression scale (ESCS). Features updates from cover to cover including revisions in accordance with new information on inflammatory and autoimmune disorders and systemic manifestations of disease. Provides expanded imaging details for metastatic diseases to accommodate recent significant changes, including new categories of oncologic surgery driven by the use of proton beam radiotherapy. PET MR as a diagnostic modality, and new FDA-approved hardware. Includes new information on areas of demyelinating diseases related to better understanding of MS, neuromyelitis optica spectrum disorder, and anti-MOG disorders; a variety of spinal CSF leak pathologies that cause intracranial hypotension; genetic and disease information on schwannomatosis; and much more. Uses bulleted, succinct text and heavily templated chapters for quick comprehension of essential information at the point of care.

This book is instrumental to building a bridge between scientists and clinicians in the field of spine imaging by introducing state-of-the-art computational methods in the context of clinical applications. Spine imaging via computed tomography, magnetic resonance imaging, and other radiologic imaging modalities, is essential for noninvasively visualizing and assessing spinal pathology. Computational methods support and enhance the physician’s ability to utilize these imaging techniques for diagnosis, non-invasive treatment, and intervention in clinical practice. Chapters cover a broad range of topics encompassing radiological imaging modalities, clinical imaging applications for common spine diseases, image processing, computer-aided diagnosis, quantitative analysis, data reconstruction and visualization, statistical modeling, image-guided spine intervention, and robotic surgery. This volume serves a broad audience as contributions were written by both clinicians and researchers, which reflects the intended readership as well, being a potentially comprehensive book for all spine related clinicians, technicians, scientists, and graduate students.

Magnetic resonance imaging has become an increasingly beneficial tool for the radiologic evaluation of complex spine diseases. However, due to the many variables implicit in MR imaging technique, considerable experience and expertise are necessary to diagnose with confidence. This book provides a comprehensive and practical overview of the field, and gives you the information to competently utilize MRI for the diagnosis of diseases of the spine and spinal cord. More than 1,300 high-quality images help you recognize and distinguish normal findings from pathologic spinal disorders and common MR artifacts. Systematic tables of indications and differential diagnoses summarize each disorder and help you in planning treatment strategies. Problem-solving tips and tricks provide details on various imaging techniques, as well as the advantages and disadvantages of different MRI sequences. Concise chapter summaries provide quick and easy access to the most current MR imaging information. Of great interest to radiologists, neuroradiologists, trauma surgeons, orthopedic surgeons, and neurosurgeons, this extensively illustrated work is an essential diagnostic reference for evaluating spinal disorders.

Combining the rich visual guidance of an atlas with the comprehensive, in-depth coverage of a definitive reference, this significant new work in the Expert Radiology series covers every aspect of brain imaging, equipping you to make optimal use of the latest diagnostic modalities. Compare your clinical findings to more than 2,800 digital-quality images of both radiographic images and cutting edge modalities such as MR, ultrasonography, and nuclear medicine, including PET and PET/CT. Visualize relevant anatomy more easily thanks to full-color anatomic views throughout. Choose the most effective diagnostic options, with an emphasis on cost-effective imaging. A potpourri of diverse group of world authorities from around the globe on imaging of the brain. Use these references alongside Dr. Naidich's Imaging of the Spine for complementary coverage of all aspects of neuroimaging.

Quantitative MRI of the Spinal Cord is the first book focused on quantitative MRI techniques with specific application to the human spinal cord. This work includes coverage of diffusion-weighted imaging, magnetization transfer imaging, relaxometry, functional MRI, and spectroscopy. Although these methods have been successfully used in the brain for the past 20 years, their application in the spinal cord remains problematic due to important acquisition challenges (such as small cross-sectional size, motion, and susceptibility artifacts). To date, there is no consensus on how to apply these techniques; this book reviews and synthesizes state-of-the-art methods so users can successfully apply them to the spinal cord. Quantitative MRI of the Spinal Cord introduces the theory behind each quantitative technique, reviews each theory’s applications in the human spinal cord and describes its pros and cons, and suggests a simple protocol for applying each quantitative technique to the spinal cord. Chapters authored by international experts in the field.
Diagnosis Imaging for the Emergency Physician, written and edited by a practicing emergency physician for emergency physicians, takes a step-by-step approach to the selection and interpretation of commonly ordered diagnostic imaging tests. Dr. Joshua Broder presents validated clinical decision rules, describes time-efficient approaches for the emergency physician to identify critical radiographic findings that impact clinical management and discusses hot topics such as radiation risks, oral and IV contrast in abdominal CT, MRA versus CT for occult hip injury, and more. Diagnostic Imaging for the Emergency Physician has been awarded a 2011 PROSE Award for Excellence for the best new publication in Clinical Medicine. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Choose the best test for each indication through clear explanations of the "how" and "why" behind emergency imaging. Interpret head, spine, chest, and abdominal CT images using a detailed and efficient approach to time-sensitive emergency findings. Stay on top of current developments in the field, including evidence-based analysis of tough controversies - such as indications for oral and IV contrast in abdominal CT and MRA versus CT for occult hip injury; high-risk pathology that can be missed by routine diagnostic imaging - including subarachnoid hemorrhage, bowel injury, mesenteric ischemia, and scaphoid fractures; radiation risks of diagnostic imaging - with practical summaries balancing the need for emergency diagnosis against long-term risks; and more. Optimize diagnosis through evidence-based guidelines that assist you in discussions with radiologists, coverage of the limits of "negative" or "normal" imaging studies for safe discharge, indications for contrast, and validated clinical decision rules that allow reduced use of diagnostic imaging. Clearly recognize findings and anatomy on radiographs for all major diagnostic modalities used in emergency medicine from more than 1000 images. Find information quickly and easily with streamlined content specific to emergency medicine written and edited by an emergency physician and organized by body system.

In this issue of Spine, the roles of CT and MRI have been heavily emphasized - roles which continue to reshape the approach to spinal imaging and are subject to intensive research and study as new applications unfold.

This book examines all aspects of the imaging of spinal infection. The diagnosis of spinal infection has been a challenge for many years. In addition to clinical and laboratory findings and histopathological examination, imaging has a major role in aiding and expediting the correct diagnosis. This book comprehensively addresses how imaging can help in localizing the site and specifying the extent of a variety of spinal infections. After introductory chapters on the epidemiology and pathophysiology of spinal infection, the different imaging techniques are discussed in detail. The bulk of the book addresses different specific spinal infections caused by various pathogens. These comprise chapters on hematogenous pyogenic spondylodiscitis, iatrogenic spinal infection, pyogenic epidural abscess, spinal brucellosis, salmonella spondylodiscitis, spinal tuberculosis, spinal hydatidosis, and fungal spondylodiscitis. The last chapter describes diagnostic algorithm of spinal infection. The book is written by Tunisian, Asian and European experts and will be a valuable resource for all medical practitioners who deal with spinal infection, including radiologists, rheumatologists and orthopedic surgeons.

Spine-related pain is the world's leading disabling condition, affecting every population and a frequent reason for seeking medical consultation and obtaining imaging studies. Numerous spinal phenotypes (observations/traits) and their respective measurements performed on various spine imaging have been shown to directly correlate and predict clinical outcomes. Atlas of Spinal Imaging Phenotypes: Classifications and Radiographic Measurements is a comprehensive visual resource that highlights various spinal phenotypes on imaging, describes their clinical and pathophysiological relevance, and discusses and illustrates their respective measurement techniques and classifications. Helps readers better understand spinal phenotypes and their imaging, and how today's knowledge will facilitate new targeted drug discovery, personalized medicine, improved imaging, and outcome predictions. Features step-by-step instructions on performing the radiographic measurements with examples of normal and pathologic images to demonstrate the various presentations. Presents current clinical correlation of the phenotypes as well as the radiographic measurements with landmark references. Includes validated classification systems that complement the phenotypes and radiographic measurements. Compiles the knowledge and expertise of Dr. Dino Samartzis, the preeminent global authority on spinal phenotypes who has discovered and proposed new phenotypes and classification schemes; Dr. Howard S. An, a leading expert in patient management and at the forefront of 3D imaging of various spinal phenotypes; and Dr. Philip Louis, a prolific surgeon who is involved in one of the largest machine learning initiatives of spinal phenotyping.

Imaging of the Spine—an exhaustive, full-color reference—combines the ease of use of an atlas with the comprehensive coverage of a definitive reference work. Renowned experts Drs. Thomas P. Naidich, Mauricio Castillo, Charles Raybaud, James G. Simmethopoulos, Soormee Cha, and Spyros Kollidas cover every aspect of spine imaging, including the latest diagnostic modalities, interventional techniques, and image-guided procedures through over 1300 digital quality illustrations. View 1300 digital images of both radiographic images and cutting edge modalities—MR, multislice CT, ultrasonography, and nuclear medicine. Consult the expertise of a diverse group of experts from around the globe on the imaging of the spine. Tap into comprehensive coverage that includes diagnostic and therapeutic options, with an emphasis on cost-effective imaging. Find information quickly and easily thanks to consistent and tightly focused chapters, a full color design, and key point boxes.

Covering the entire spectrum of this fast-changing field, Diagnostic Imaging: Spine, fourth edition, is an invaluable resource for general radiologists, neuroradiologists, and trainees-anyone who requires an easily accessible, highly visual reference on today's spinal imaging. Drs. Jeffrey Ross, Kevin Moore, and their team of highly regarded experts provide updated information on disease identification and imaging techniques to help you make informed decisions at the point of care. The text is lavishly illustrated, delineated, and referenced, making it a useful learning tool as well as a handy reference. Serves as a one-stop-resource for radiologists, in teaching and office settings, and as a study tool for students. Covers the entire spectrum of diseases and related imaging knowledge. Provides a detailed discussion of the spine and spinal cord, each divided into chapters covering the spine and spinal cord, bony vertebral conditions, and the spine. Each chapter contains a detailed discussion of each topic, with emphasis on imaging and clinical knowledge. Includes a comprehensive index and a glossary of terms. A must-have for every radiologist, neuroradiologist, and spine surgeon.
A panel of world-renowned experts presents a complete course on evaluating and treating patients with back pain, including interventional spinal procedures, spinal imaging, and the clinical evaluation of the spine patient. The authors focus on all the critical spinal procedures, ranging from such traditional methods as selective nerve root blocks, epidural injections, facet injections, sacroiliac joint injections, to such state-of-the-art techniques as spinal biopsy, percutaneous vertebroplasty, spinal imaging, nucleoplasty, discography, intradiscal electrothermal therapy, and transarterial therapy for tumors of the spine. Additional material is provided on basic spinal anatomy, CT, MRI, the nuclear medicine of the spine, and the pharmacology of the medications used in injection procedures.

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.

A general consensus exists that lumbosacral nerve root compression is the primary cause of sciatica and neurogenic claudication, although humoral and vascular factors certainly play a role as well. This book focuses on imaging the various ways in which nerve root compression can come about, and determining which anatomic features are reliably associated with the production of radicular pain. After a discussion of the nature of radicular pain and related symptoms, spinal imaging techniques and options are reviewed, with emphasis on the role of MR myelography in assessing the intradural nerve roots. A chapter on normal topographic, sectional, and functional radiologic anatomy is followed by presentations on pathologic anatomy, addressing mechanisms of nerve root compression, and on pre- and postoperative imaging. Features relevant to prediction of the natural history are discussed, and a section is devoted to the performance and reporting of a spinal imaging study.

Established as the leading textbook on imaging diagnosis of brain and spine disorders, Magnetic Resonance Imaging of the Brain and Spine is now in its Fourth Edition. This thoroughly updated two-volume reference delivers cutting-edge information on nearly every aspect of clinical neuroradiology. Expert neuroradiologists, innovative renowned MRI physicists, and experienced leading clinical neuropsychiatrists from all over the world show how to generate state-of-the-art images and define diagnoses from crucial clinical/pathologic MR imaging correlations for neurologic, neurosurgical, and psychiatric diseases spanning fetal CNS anomalies to disorders of the aging brain. Highlights of this edition include over 6,800 images of remarkable quality, more color images, and new information using advanced techniques, including perfusion and diffusion MRI and functional MRI. A companion Website will offer the fully searchable text and an image bank.

This open access book focuses on imaging of the musculoskeletal diseases. Over the last few years, there have been considerable advances in this area, driven by clinical as well as technological developments. The authors are all internationally renowned experts in their field. They are also excellent teachers, and provide didactically outstanding chapters. The book is disease-oriented and covers all relevant imaging modalities, with particular emphasis on magnetic resonance imaging. Important aspects of pediatric imaging are also included. IDKD books are completely re-written every four years. As a result, they offer a comprehensive review of the state of the art. The book is clearly structured with learning objectives, abstracts, subheadings, tables and take-home points, supported by design elements to help readers easily navigate through the text. A Companion Website will offer the fully searchable text and an image bank.

Covering the entire spectrum of this fast-changing field, Diagnostic Imaging: Pediatric Neuroradiology, third edition, is an invaluable resource for radiologists, child neurologists, and pediatricians -- anyone who requires an easily accessible reference that covers common and uncommon disorders affecting the brain, head, neck, and spine of children. Dr. Kevin Moore and an expert author team provide carefully updated information and an abundance of high-quality images throughout, making this edition a useful learning tool as well as a handy reference source for daily practice. Features more than 2,300 annotated images, including MR, CT, proton spectroscopy, and angiographic findings that bring CNS up to speed with classification of both neoplastic and nonneoplastic central nervous system (CNS) diseases, revision and classification of tumor types/subtypes, changes in metabolic disorders and malformations, and entirely new disorders and groups of disorders such as acute flaccid myelitis. Includes new chapters covering important pediatric spine neoplasms, such as CNS intradural tumor dissemination and myxopapillary ependymoma. Provides expanded coverage of better-understood genetic white matter diseases such as vanishing white matter disease. Discusses key topics such as newly discovered genetic mutations correlating with distinct imaging appearances and prognosis, newly characterized infectious entities, recent descriptions of important Chiari I malformation variants, newly described entities based on genetics in addition to histological features, and advances in the diagnosis of abusive head trauma. Uses bulleted, succinct text for fast and easy comprehension of essential information, including terminology, imaging findings, key facts, differential diagnosis, pathology, clinical issues, diagnostic checklist, and selected references. Includes an extensive image gallery for each entity, depicting common and variant cases. Offers a vivid, full-color design that makes the material easy to read. Displays a “thumbnail” visual differential diagnosis for each entity.

Written by internationally renowned experts, this volume is a collection of chapters dealing with imaging diagnosis and interventional therapies in neuroradiology and diseases of the spine. The different topics are disease-oriented and encompass all the relevant imaging modalities including X-ray technology, nuclear medicine, ultrasound and magnetic resonance, as well as image-guided interventional techniques. It represents a unique experience for residents in radiology as well as for experienced radiologists wishing to be updated on the current state of the art.

This book deals with neuroimaging of the brain, head, neck, and spine. During the last few years, there have been considerable advances in this subject, driven by clinical as well as technological developments. The authors, internationally renowned experts in their field, have contributed chapters that are disease-oriented and cover all relevant imaging modalities, including magnetic resonance imaging, computed tomography, and positron emission tomography. As a result, this book offers a comprehensive review of the state of the art.
of the art in neuroimaging. It is particularly relevant for general radiologists, radiology residents, neurologists, neurosurgeons, and other clinicians wishing to update their knowledge in this discipline.

This work presents guidance on spine diagnostic imaging. It provides details for each diagnosis, representative images, case data, and current references.

It is difficult to know what the true incidence of metastatic spinal cord compression (MSSC) is in England and Wales because the cases are not systematically recorded. However, evidence from an audit carried out in Scotland between 1997 and 1999 and from a published study from Ontario, Canada, suggests that the incidence may be up to 80 cases per million population per year. This would mean around 4000 cases per year in England and Wales or more than 100 cases per cancer network per year. The Clinical Resource and Audit Group (CRA Group) audit clearly showed that there were significant delays from the time when patients first developed symptoms until hospital doctors and general practitioners recognized the possibility of spinal cord compression and made the appropriate referral. The median times from the onset of back pain and nerve root pain to referral were 3 months and 9 weeks respectively. As a result, 48% of patients were unable to walk at the time of diagnosis and of these the majority (67%) had recovered no function at 1 month. Of those walking unaided at the time of diagnosis (34%), 81% were able to walk (either alone or with aid) at 1 month. The ability to walk at diagnosis was also significantly related to overall survival. At present, relatively few patients with malignant spinal cord compression in the UK receive surgery for the condition. But research evidence suggests that early surgery may be more effective than radiotherapy in a selected subset of patients.

Disorders of the Cervical Spine covers the advances in diagnostic imaging and surgical techniques for cervical spine disorders since the publication of the first edition in 1980. This book is organized into 11 chapters. The first chapter describes the anatomy of the cervical spine. This is followed by a discussion of the different cervical spine disorders including osteomyelitis, soft tissue injuries, cervical spondylitis, tumors, congenital malformations and deformities, and fractures and dislocations. There are also chapters on diagnostic imaging of the spine, cervical orthoses, and an evaluation of different approaches to cervical spine surgery. This book will be invaluable to people interested in understanding the diagnosis and management of cervical spine disorders.

This richly illustrated and superbly organized text/atlas is an excellent point-of-care resource for practitioners at all levels of experience and training. Written by global leaders in the field, Imaging Anatomy: Brain and Spine provides a thorough understanding of the detailed normal anatomy that underlies contemporary imaging. This must-have reference employs a templated, highly formatted design; concise, bulleted text; and state-of-the-art images throughout that identify the clinical entities in each anatomic area. Features more than 2,500 high-resolution images throughout, including TT MR, FMRI, diffusion-weighted MR, and multidetector row CT images in many planes, combined with over 300 correlative full-color anatomic drawings that show human anatomy in the projections that radiologists use. Covers only the brain and spine, presenting multiplanar normal imaging anatomy in all pertinent modalities for an unsurpassed, comprehensive point-of-care clinical reference. Incorporates recent, stunning advances in imaging such as TT and functional MR imaging, surface and segmented anatomy, single-photon emission computed tomography (SPECT) scans, dopamine transporter (DAT) scans, and 3D quantitative volumetric scans. Places TT MR images alongside TT MR images to highlight the benefits of using TT MR imaging as it becomes more widely available in the future. Presents essential text in an easy-to-digest, bulleted format, enabling imaging specialists to find quick answers to anatomy questions encountered in daily practice.

This thousand-page text contains over 550 color illustration plates and over 1000 radiographic images. Each radiographic diagnosis is discussed in outline format with thumbnail images of other differential considerations. While the unique correlative color illustrations for each diagnosis allow the reader to better understand anatomy and mechanism of disease, the concise yet complete format of the textbook allows for quick reference in the clinical setting.

In recent decades, the use of neuroimaging techniques has resulted in outstanding progress in the diagnosis and management of neurological diseases, and this is particularly true of those diseases that affect the white matter of the brain and spinal cord. This book, written by internationally acclaimed experts, comprises a series of comprehensive and up-to-date reviews on the use of MR imaging in these major neurological conditions. The diverse available MR techniques, such as magnetization transfer transfer MR, diffusion-weighted MR, MR spectroscopy, functional MR, cell-specific MR, perfusion MR, and microscopic imaging with ultra-high field MR, offer an extraordinarily powerful means of gaining fundamental in vivo insights into disease processes. The strengths and weaknesses of all these techniques in the study of multiple sclerosis and other relevant diseases are extensively considered. After an introductory section on neuroimaging technology, subsequent sections address disorders of myelination, demyelinating diseases, immune-mediated disorders, and white matter disorders related to aging and other conditions. This book provides a valuable summary of the state of the art in the field, and defines important areas for future research.

Now in its third edition, Anatomy in Diagnostic Imaging is an unrivalled atlas of anatomy applied to diagnostic imaging. The book covers the entire human body and employs all the imaging modalities used in clinical practice: x-ray, CT, MR, PET, ultrasound and scintigraphy. An introductory chapter explains succinctly the essentials of the imaging and examination techniques drawing on the latest technical developments. In view of the great strides that have been made in this area recently, all chapters have been thoroughly revised in this third edition. The book’s original and didactically convincing presentation has been enhanced with over 250 new images. There are now more than 900 images, all carefully selected in order to be user-friendly and easy-to-read, due to their high quality and the comprehensive anatomical interpretation directly placed alongside every one. Both for medical students and practising doctors, Anatomy in Diagnostic Imaging will serve as the go-to all-round reference collection linking anatomy and modern diagnostic imaging. Winner of the Radiology category at the BMA Book Awards 2015.

Radiology Illustrated: Spine is an up-to-date, superbly illustrated reference in the style of a teaching file that has been designed specifically to be of value in clinical practice. Common, critical, and rare but distinctive spinal disorders are described succinctly with the aid of images highlighting important features and informative schematic illustrations. The first part of the book, on common spinal disorders, is for radiology residents and other clinicians who are embarking on the interpretation of spinal images. A range of key disorders are then presented, including infectious spondylitis, cervical trauma, spinal cord disorders, spinal tumors, congenital disorders, uncommon degenerative disorders, inflammatory arthropides, and vascular malformations. The third part is devoted to rare but significantly spinal disorders with characteristic imaging features, and the book closes by presenting practical tips that will assist in the interpretation of confusing cases.
DX-Direct is a series of eleven Thieme books covering the main subspecialties in radiology. It includes all the cases you are most likely to see in your typical working day as a radiologist. For each condition or disease you will find the information you need — with just the right level of detail. Whether you are a resident or a trainee, preparing for board examinations or just looking for a superbly organized reference, DX-Direct is the high-yield choice for you! The series covers the full spectrum of radiology subspecialties including Brain and astrointestinal, Cardiac, Breast, Gastrointestinal, Vascular, Spinal, Head and Neck, Musculoskeletal, Pediatric, Thoracic. DX-Direct gets to the point: Definitions, Etiology, Etiology, Imaging Signs, Typical Presentation, Treatment Options, Course and Prognosis, Differential Diagnosis, Tips and Pitfalls, and key References all combined with high-quality diagnostic images.

Veterinary Consult The Veterinary Consult version of this title provides electronic access to the complete content of this book. Veterinary Consult allows you to electronically search your entire book, make notes, add highlights, and study more efficiently. Purchasing additional Veterinary Consult titles makes your learning experience even more powerful. All of the Veterinary Consult books will work together on your electronic “bookshelf,” so that you can search across your entire library of veterinary books. Veterinary Consult: It's the best way to learn! Book Description: User-friendly and comprehensive, this excellent resource covers all aspects of diagnostic radiology and interpretation. It features relevant coverage of the physics of radiology, CT, and MRI, as well as valuable information on patient positioning and management, radiographic technique and safety measures, normal and abnormal anatomy, radiographic viewing and interpretation, and alternative imaging modalities. This edition features more than 500 additional images, a new chapter on the principles of digital imaging, and expanded coverage of brain and spinal cord imaging.

This richly illustrated and superbly organized textbook is part of the new Diagnostic and Surgical Imaging Anatomy series produced by the innovative medical information systems provider Amiras®. Written by the preeminent authorities in neuroradiology, this volume will give radiologists a thorough understanding of the different pathologies that underlie contemporary imaging. The book features over 2,500 high-resolution 3T MRI and multidetector row CT images in many planes, combined with over 370 correlative full-color anatomic drawings that show human anatomy in the projections radiologists use. Succinct, bulleted text accompanying the images identifies the clinical and pathological entities in each anatomical area. With the eBook, you'll receive the print book as well as an instant-access, online e-book: continuously updated, fully searchable online version, fast-access differential diagnosis tables based on specific anatomic area, optically clear images with interactive self-assessments. Amiras® eBook Advantage: compatible only with Internet Explorer 6.0 or later.

Imaging of the spine is given a thorough update in this issue, beginning with an article on spine segmentation, enumeration and normal variants. Imaging of degenerative disease of the spine is then reviewed, giving consideration to appropriate utilization of imaging, specificity and sensitivity shortcomings in evaluation of degenerative disease, risks and benefits of imaging of degenerative disease, and the prevalence of radicular and non-radicular pain and underlying pain generators. Next, the validity and socioeconomic impact of spine imaging in evaluating degenerative pain syndromes is reviewed. Pathophysiology and biomechanics of disc and facet pain is also reviewed, along with imaging of radiculopathy / radiculits, imaging of central canal stenosis, and imaging of discogenic pain (using MRI and discography). Imaging of joint related axial pain, spine neoplasm, spine infection, and non-acute trauma is also covered.

Embodying the principle of 'everything you need but still easy to read', this fully updated edition of Core Radiology is an indispensable aid for learning the fundamentals of radiology and preparing for the American Board of Radiology Core exam. Containing over 2,100 clinical radiological images with full explanatory captions and color annotations, streamlined formatting ensures readers can follow discussion points effortlessly. Bullet-pointed text concentrates on essential concepts, with text boxes, tables and over 400 color illustrations supporting readers' understanding of complex anatomic topics. Real-world examples are presented for the reader, encompassing the vast majority of entities likely encountered in board exams and clinical practice. Divided into two volumes, this edition is more manageable whilst remaining comprehensive in its coverage of topics, including expanded pediatric cardiac surgery descriptions, updated brain tumor classifications, and non-invasive vascular imaging. Highly accessible and informative, this is the go-to introductory textbook for radiology residents worldwide.

Imaging in Spine Surgery: 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 Amiras® radiology titles: Imaging: Anatomy, M. uculoskeletal by M. anaster Diagnostic Imaging: Spine by Ross Specialty Imaging: Craniovertebral Junction by Ross Specialty Imaging: Postoperative Spine by Ross Specialty Imaging: Pain Management by L. a Bargé 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 images and drawings), with captions and extensive annotations, specifically for surgeons, important clinical considerations, and clarification of unfamiliar radiology nomenclature. Selected prose intros and imaging anatomy chapters help nonradiology clinicians master the key points of imaging relevant to spine surgery.

More than 400 diagnoses that are delineated, referenced, and lavishly illustrated highlight the third edition of this bestselling reference. A Ward-winning educator Dr. Carl M errow and his expert author team provide carefully updated information in a concise, bulleted format, keeping you current with recent advances in pediatric radiology. Succinct text, outstanding illustrations, and up-to-date content make this title a must-have reference for both general radiologists and pediatric imaging specialists who need a single, go-to guide in this fast-changing area. Concise, bulleted text provides efficient information on more than 400 diagnoses that are clearly illustrated with 2,500 superb images. Meticulously updated throughout, with new diagnoses and hundreds of new images that provide the most current information in the field. Expanded coverage of normal development and variations in childhood, including brain malformations, variant positions of important bowel anatomy, and bone marrow changes on MR. Increased focus on the molecular/genetic basis of many diseases, including changes in current medical terminology as well as appearances by alternate modalities. Expert guidance on new MR techniques for the evaluation of disease, including the use of newer contrast agents, acute and chronic pediatric musculoskeletal traumatic injuries often seen in young athletes, and congenital airway anomalies, such as CHAOS and tracheal agenesis. New and revised classifications and staging systems of various pediatric disorders, including neoplasms, vascular anomalies, and childhood interstitial lung diseases.
With constant improvements to MRI image quality, it’s important to have a resource reflecting the most recent developments. Diagnostic Imaging: Spine, now in its third edition, showcases the latest cutting-edge research from Dr. Jeffrey Ross and his team of experts in the field. Expanding upon the core of the highly popular second edition, this updated reference is fully revised to provide the best spine-related diagnostic support available. Covers the latest advancements in imaging the postoperative spine, including bone morphogenetic protein (BMP) utilization. Includes additional genetic information, such as OMIM entry numbers, where appropriate. Highlights updates to new classification and grading schemes. Hundreds of full-color pathology images are carefully annotated to help pinpoint the most relevant factors. New references direct you to additional trustworthy resources. Bulletin lists provide guidance through the intricacies of the spine. Presents brand new images and cases to keep you at the forefront of your field.

Medical eBook is accessible on a variety of devices.

Market: Radiologists; Radiology Residents; Neurosurgeons; Neurologists; Spine Surgeons
Includes 2,000 multi-modality images
Includes more than 300 cases

Use this atlas to accurately interpret images of musculoskeletal disorders! Taylor, Hughes, and Resnick’s Skeletal Imaging: Atlas of the Spine and Extremities, 2nd Edition covers each anatomic region separately, so common disorders are shown within the context of each region. This allows you to examine and compare images for a variety of different disorders. A separate chapter is devoted to each body region, with coverage of normal developmental anatomy, developmental anomalies, and normal variations, and how to avoid a misdiagnosis by differentiating between disorders that appear to be similar. All of the most frequently encountered musculoskeletal conditions are included, from physical injuries to tumors to infectious diseases. Over 2,100 images include radiographs, radionuclide studies, CT scans, and MRI images, illustrating pathologies and comparing them with other disorders in the same region. Organization by anatomic region addresses common afflictions for each region in separate chapters, so you can see how a particular region looks when affected by one condition as compared to its appearance with other conditions. Coverage of each body region includes normal developmental anatomy, fractures, deformities, dislocations, infections, hematologic disorders, and more. Normal Developmental Anatomy sections open each chapter, describing important developmental landmarks in various regions of the body from birth to skeletal maturity. Practical tables provide a quick reference to essential information, including normal developmental anatomic milestones, development anomalies, common presentations and symptoms of diseases, and much more. 400 new and replacement images are added to the book, showing a wider variety of pathologies. More MRI imaging is added to each chapter. Up-to-date research includes the latest on scientific advances in imaging. References are completely updated with new information and evidence.

"Welcome to the third edition of Diagnostic Imaging: Spine. Five years have passed since the second edition, and 11 years have flown by since the first edition was published. This edition is a refresh with new images, new diagnoses, and updated text and references. The same excellent Amirsys formatting is present, with individual diagnoses capable of standing alone but with a logical integration within the larger sections. The Key Facts box retains its visual prominence at the beginning of each diagnosis, allowing for a quick scan of the most important bullet points when time is short (and when is it not?). The text format remains in the hallmark Diagnostic Imaging bulleted form that allows a large amount of important information to be displayed in an easy-to-use and inviting layout. Prose text chapters are included for the introduction to major sections, which are color-coded, and the use of tables allows quick scanning for important data and measurements."--From the publisher.

The text presents details for each diagnosis, representative images, case data, and current references. Its user-friendly format lets readers access all of this information more quickly.

- Comprehensive, up-to-date textbook on the imaging of frequently encountered spinal disorders
  - Richly illustrated
  - All imaging modalities considered, e.g. plain film, multidetector CT and MRI
  - Designed to ensure ease of use, with a logical structure and extensive index

Copyright code: 9a9c299125e0f530cab510e7de6abdc