

MRI Lumbar Spine

Sample Report

PATIENT: DOE, REGINA
DATE OF BIRTH: 1/4/1967
REFERRING PHYSICIAN: BANNER, ROSS, MD
EXAM DATE: 1/1/2013

PATIENT ID: 146713

EXAMINATION: MRI Lumbar Spine

INDICATION: Chronic low back pain, right lower extremity pain, radiculopathy.

TECHNIQUE: Magnetic resonance imaging of the lumbosacral spine is submitted with standard protocol, sagittal and axial T1, T2 and/or gradient echo sequences, without IV contrast. Exam performed on 1.5 Tesla MRI system.

COMPARISON: None

FINDINGS: There is normal lumbosacral vertebral body height and alignment on this supine, non-weight bearing exam. Vertebral body marrow signal is normal. The conus medullaris is normal and terminates at L1.

T12-L1: Sagittal series-mild secondary discogenic facet change without stenosis.

L1-L3: Sagittal series-normal disc spaces with patent canal and foramina.

L3-L4: Series 6 image 10-normal disc space show mild/moderate facet arthrosis with patent canal and foramina.

L4-L5: Image 21-mild to moderate decreased disc signal and disc height with mild endplate spondylitic change, bulge and a left paracentral disc herniation extruded superiorly, 7 mm AP by 16 mm mL by 14 mm CC, with the left L5 nerve root sleeve impingement in the lateral recess, with severe right more than left facet arthrosis. Narrowing of the thecal sac, 8 mm, with mild left lateral recess stenosis, patent right lateral recess and mild to moderate left and mild right foraminal stenosis.

L5-S1: Image 32-mild decreased disc signal with mild/moderate decreased disc height and endplate spondylitic change, bulge and left paracentral disc herniation, 3 mm AP by 8mm mL, with left S1 nerve root sleeve impingement in the lateral recess, with moderate facet arthrosis. Patent canal and right lateral recess and right foramen with minor left foraminal stenosis. No paraspinal masses or collections.

IMPRESSION:

1. L4-L5 left paracentral disc herniation extruded superiorly with left L5 nerve root sleeve impingement, with canal, lateral recess and foraminal stenosis.
2. L5-S1 left paracentral disc herniation with left S1 nerve root sleeve impingement with left lateral recess and foraminal stenosis.

Electronically Signed/Dated By ...

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RM Cervero

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

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Medical Image Computing and Computer Assisted Intervention - MICCAI 2024 Marius George Linguraru, Qi Dou, Aasa Feragen, Stamatia Giannarou, Ben Glocker, Karim Lekadir, Julia A. Schnabel, 2024-10-03 The 12 volume set LNCS 15001 15012 constitutes the proceedings of the 27th International Conference on Medical Image Computing and Computer Assisted Intervention MICCAI 2024 which took place in Marrakesh Morocco during October 6 10 2024 MICCAI accepted 857 full papers from 2781 submissions They focus on neuroimaging image registration computational pathology computer aided diagnosis treatment response and outcome prediction image guided intervention visualization surgical planning and surgical data science image reconstruction image segmentation machine learning etc [essentials of skeletal radiology](#) ,

Quantitative MRI of the Spinal Cord Julien Cohen-Adad, Claudia Wheeler-Kingshott, 2014-01-16 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 of MRI of the spinal cord Contains cooking recipes examples of imaging parameters for each quantitative technique designed to aid researchers and clinicians in using them in practice Ideal for clinical settings [Proceedings of the 20th Congress of the International Ergonomics Association \(IEA 2018\)](#) Sebastiano Bagnara, Riccardo Tartaglia, Sara Albolino, Thomas Alexander, Yushi Fujita, 2018-08-04 This book presents the proceedings of the 20th Congress of the International Ergonomics Association IEA 2018 held on August 26 30 2018 in Florence Italy By highlighting the latest theories and models as well as cutting edge technologies and applications and by combining findings from a range of disciplines including engineering design robotics healthcare management computer science human biology and behavioral science it provides researchers and practitioners alike with a comprehensive timely guide on human factors and ergonomics It also offers an excellent source of innovative ideas to stimulate future discussions and developments aimed at applying knowledge and techniques to optimize system performance while at the same time promoting the health safety and wellbeing of individuals The proceedings include papers from researchers and practitioners scientists and physicians institutional leaders managers and policy makers that contribute to constructing the Human Factors and Ergonomics approach across a variety of methodologies domains and productive sectors This volume includes papers

addressing Musculoskeletal Disorders Emerging LLM/LMM Applications in Medical Imaging Hien Van Nguyen, Akash Awasthi, Vishal M. Patel, Ngan Le, Yuyin Zhou, Sheng Liu, S. Kevin Zhou, 2025-10-11 This book constitutes the proceedings of the First International Workshop on Emerging LLM LMM Applications in Medical Imaging ELAMI 2025 Held in Conjunction with MICCAI 2025 Daejeon South Korea September 27 2025 The 14 full papers were carefully reviewed and selected from 24 submissions The conference covers all aspects of Healthcare LLM LMM Medical Imaging AI Machine learning and Multimodal **Comprehensive Textbook of Clinical Radiology Volume I: Principles of Clinical Radiology,**

Multisystem Diseases & Head and Neck-E-book Praveen Gulati, N Chidambaranathan, Anil Ahuja, Arangaswamy Anbarasu, Abhishek Mahajan, 2023-05-15 Comprehensive Textbook of Clinical Radiology is a fully integrated illustrated textbook of radiology to cater for residents and practising radiologists It is a one stop solution for all academic needs in radiology It helps radiologists as a single reference book to gain complete knowledge instead of referring to multiple resources More than 500 authors recognized experts in their subspeciality have contributed to this book To meet the expectations of clinical radiologists thorough clinical expertise and familiarity with all the imaging modalities appropriate to address their clinical questions are necessary regardless of one's favoured subspeciality To keep the content relevant to them we have tried to stay upgraded to their level This book comprises six volumes which gives information on Radiological Anatomy Embryology Nomogram Normal Variants Physics Imaging Techniques and all the aspects of Diagnostic Radiology including Neuroradiology Head and Neck Chest and CVS Abdomen Obstetrics and Gynaecology Breast Musculoskeletal and Multisystem Disorders related Interventional techniques It will serve as a primary reference for residents and subspeciality trainees and fellows to facilitate their learning in preparation for their examination and also the consultant radiologists in their daily clinical practice This volume is subdivided into three sections Section 1 covers the principles of clinical radiology and deals with basic to advanced aspects of general radiology The physics of each imaging modality is described in detail for radiology residents Principles of pathology genetics and statistics important for radiologists from research point of view are enumerated Basic principles of medicine including management of contrast reactions basic and advanced life support which are important for radiologists in day to day practice are dealt in dedicated chapter Section 2 covers the multisystem disorders that affect multiple body systems either at the same time or over a period of time Imaging plays a vital role in identifying the extent of systems involved and also in diagnosis by recognising the pattern of systems involved The last part of the section deals with the general principles of oncoimaging dealing with multisystem involvement and facilitates easier understanding of this complex subject The format is ideal for both in depth knowledge and daily reference Section 3 covers head and neck imaging anatomy of neck techniques of imaging and paediatric neck In addition all neck spaces and lymph nodes are discussed with anatomy and pathology with high quality images and line diagrams Orbits temporal bone sinuses and skull base are included with discussion on imaging anatomy variants and pathologies Cancer imaging PETCT and post

operative imaging are fully discussed along with TNM imaging Unique chapters on Sleep apnea Emergency Radiology Dental imaging Superficial and trans spatial lesions and Imaging of all cranial nerves are included *Tackling Wasteful Spending on Health* OECD,2017-01-10 Countries could potentially spend significantly less on health care with no impact on health system performance or on health outcomes This report reviews strategies put in place by countries to limit ineffective spending and waste **Journal of the National Cancer Institute** ,1992 Deep Generative Models Anirban Mukhopadhyay,Ilkay Oksuz,Sandy Engelhardt,Dorit Mehrof,Yixuan Yuan,2024-10-08 This book constitutes the proceedings of the 4th workshop on Deep Generative Models for Medical Image Computing and Computer Assisted Intervention DGM4MICCAI 2024 held in conjunction with the 27th International conference on Medical Image Computing and Computer Assisted Intervention MICCAI 2024 in Marrakesh Morocco in October 2024 The 21 papers presented here were carefully reviewed and selected from 40 submissions These papers deal with a broad range of topics ranging from methodology such as Causal inference Latent interpretation Generative factor analysis to Applications such as Mammography Vessel imaging Surgical videos and more **Radiology Structured Reporting Handbook** Olga Brook,Wieland H. Sommer,2021-04-21 A practical guide for radiologists on providing high yield disease specific reports Multiple studies show that referring physicians have a clear preference for structured radiology reports due to clarity and ease of interpretation yet a one size fits all approach does not address disease complexities Concurrently the use of structured radiology templates has increased driven in part by the need to comply with big data and artificial intelligence as well as reimbursement Standardization of reporting is one of the first essential steps in the transformation of radiology from the art of imaging to a robust data science Radiology Structured Reporting Handbook Disease Specific Templates and Interpretation Pearls by Professors Olga R Brook Wieland H Sommer and esteemed colleagues is a highly practical guide on structured reporting for every major area of radiology Featuring disease specific templates the book is organized in six sections and 53 chapters Section one covers core foundation topics from different definitions of structured reporting and pros and cons to change management and how to build templates Five disease specific sections encompass specific cancers and a variety of abdominal thoracic neurological and cardiovascular diseases and conditions Key Highlights Downloadable disease specific templates for a variety of clinical entities including cardiovascular thoracic abdominal oncological and neuroradiology Essential interpretation pearls for specific diseases from top experts in a bullet format accompanied by relevant figures and tables Together the templates and pearls provide an essential and unique practice resource for optimal and clinically relevant reporting The book also serves as a succinct educational tool for radiology trainees and practicing radiologists who may not interpret specific highly specialized types of studies on a daily basis **Update on Spine Imaging, An Issue of Magnetic Resonance Imaging Clinics of North America** Mario Muto,2016-07-26 This issue of MRI Clinics of North America focuses on MR Imaging of the Spine and is edited by Dr Mario Muto Articles will include Diagnostic Approach to Pediatric Spin Pathology Neuroimaging of Scoliosis

and Sagittal Balance Neuroimaging of the Degenerative Spine Neuroimaging of Spinal Instability Neuroimaging of the Traumatic Spine Neuroimaging of Spine Infections Neuroimaging of the Post Operative Spine Neuroimaging of Spinal Canal Stenosis Neuroimaging of Spinal Tumors and more **Medicine Morning Report - E-Book** Raj Dasgupta, Sophia Li, Darren W. Wong, Hui Yi Shan, 2022-05-07 Medicine Morning Report Subspecialties Beyond the Pearls is a case based reference that covers the key material included on USMLE and shelf exams Focusing on the practical information you need to know it teaches how to analyze a clinical vignette in the style of a morning report conference sharpening your clinical decision making skills and helping you formulate an evidence based approach to realistic patient scenarios This subspecialties volume expands on Dr Dasgupta's popular Medicine Morning Report with more comprehensive coverage of internal medicine topics that you will encounter in clerkship and on exams Each case has been carefully chosen and covers scenarios and questions frequently encountered on board exams shelf exams and clinical practice integrating both basic science and clinical pearls Beyond the Pearls tips and secrets all evidence based with references provide deep coverage of core material Morning Report Grand Rounds format begins with the chief complaints to the labs relevant images and includes a pearl at the end of the case Questions are placed throughout the case to mimic practical decision making both in the hospital and on the board exam Written and edited by experienced teachers and clinicians each case has been reviewed by board certified attending practicing physicians Introduction to Neurogenic Communication Disorders Robert H. Brookshire, Malcolm R. McNeil, 2014-09-16 Get the tools you need to evaluate diagnose and treat patients with neurogenic communication disorders Introduction to Neurogenic Communication Disorders 8th Edition provides a solid foundation in the neurology of communication as well as the causes symptoms diagnosis assessment and management of commonly encountered neurogenic communication disorders in adults A concise evidence based approach shows how to measure and treat abnormalities such as aphasia dysarthria right hemisphere syndrome and traumatic brain injury syndrome This edition is updated with new coverage of laboratory tests blast related injuries to the head and medications for dementia Created by neurogenic communication disorders educator Robert H Brookshire and continued by Malcolm R McNeil this bestselling text will enhance your skills in the rehabilitation of clients with neurogenic communication disorders A clear concise approach makes complex material easy to follow and understand Clinical vignettes show how to apply principles to practice and illustrate how patients are evaluated and treated Thought questions at the end of each chapter are based on realistic scenarios and challenge you to assess your understanding think critically and apply information to clinical situations Suggested answers are included in the appendix Clinically relevant sidebars include related facts information and tips for recall or therapy More than 200 photographs and images include anatomic illustrations scans using various brain imaging techniques and examples of assessment tests Evidence based practice is reinforced by the use of scientific evidence based rationales to support the effectiveness of treatment approaches Student friendly features enhance learning with chapter outlines critical thinking

exercises medical protocols sample paperwork patient transcripts commonly used medical abbreviations and a glossary with definitions of key vocabulary General Concepts summary points highlight the most important material in each chapter NEW content on closed head injuries as a consequence of blast injury is included in the Traumatic Brain Injury chapter addressing a pathophysiology often found in Iraq and Afghanistan war veterans UPDATED content includes new information on medications for treatment of persons with dementia the latest laboratory tests for neurologic assessment and the most current cognitive rehabilitation approaches NEW More Thought questions in each chapter help you apply concepts to clinical situations Additional content on evidence based practice includes systematic reviews and meta analyses relating to the efficacy and effectiveness of specific treatment approaches Additional graphics clinical photographs and tables depict key information and concepts Neuropsychological Assessment of Neuropsychiatric Disorders Igor Grant, Kenneth M.

Adams, 1996 A 1996 survey of the members of the American Board of Professional Psychology Diplomates published by The Clinical Neuropsychologist journal selected the first edition of this book as one of the Essential Books and Journals in North American Clinical Neuropsychology a list which included only 10 other titles The Second Edition has improved further on this high standard While the authors have retained the same general structure with the addition of a set of three chapters on psychosocial outcomes virtually the entire book has been rewritten and thoroughly updated to reflect recent developments in this area of knowledge Part I features new chapters on the Iowa Benton approach on cognitive screening methods and on computers and memory Part II has been expanded with new chapters on Tourette s syndrome acute and chronic hypoxemia HIV infection schizophrenia Huntington s disease and an expanded chapter on Parkinson s disease Part III is entirely new and it focuses on life quality outcome in head injury and pulmonary disease Considerably enlarged in size this book will remain the basic reference on the neuropsychological aspects of diseases affecting brain and behavior **MR Imaging in**

White Matter Diseases of the Brain and Spinal Cord Massimo Filippi, Nicola de Stefano, Vincent Dousset, Joseph C. McGowan, 2005-12-29 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 MRI diffusion weighted MRI MR spectroscopy functional MRI cell specific MRI perfusion MRI and microscopic imaging with ultra high field MRI 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 Giving Bodies Back to Data Silvia Casini, 2021-08-03 An examination of the bodily situated aspects of data visualization work looking at visualization practices around the development of MRI technology Our bodies are scanned probed imaged sampled and transformed into data by clinicians and technologists In this book Silvia Casini reveals the affective relations and materiality that turn data into image and in so doing gives bodies back to data Opening the black box of MRI technology Casini examines the bodily situated aspects of visualization practices around the development of this technology Reframing existing narratives of biomedical innovation she emphasizes the important but often overlooked roles played by aesthetics affectivity and craft practice in medical visualization Combining history theory laboratory ethnography archival research and collaborative art science Casini retrieves the multiple presences and agencies of bodies in data visualization mapping the traces of scientists body work and embodied imagination She presents an in depth ethnographic study of MRI development at the University of Aberdeen s biomedical physics laboratory from the construction of the first whole body scanner for clinical purposes through the evolution of the FFC MRI Going beyond her original focus on MRI she analyzes a selection of neuroscience or biomedicine inspired interventions by artists in media ranging from sculpture to virtual reality Finally she presents a methodology for designing and carrying out small scale art science projects describing a collaboration that she herself arranged highlighting the relational and aesthetic laden character of data that are the product of craftsmanship and affective labor at the laboratory bench **Back Pain in the Young Child and Adolescent**

Richard M. Schwend, William L. Hennrikus, 2020-11-25 Back pain is a common musculoskeletal condition that presents to physicians in the primary care office the urgent care facility and the emergency room However few primary care physicians have received education and training about the appropriate workup and referral for a child who presents with back pain This book is designed to fill the gaps in primary care physician knowledge and ultimately improve patient care This book is divided into three major sections The first section contains seven introductory chapters on epidemiology anatomy of the spine imaging studies clinical considerations general history questions and physical examination pearls of the child with back pain This section gives an overview of common back pain problems and provides instructions on how to best perform a history and examination of the pediatric patient with back pain Classic historical and examination findings are highlighted that can lead to a focused differential diagnosis successful treatment and appropriate referral Recognition of the red flags in the history and physical keep the clinician out of trouble This section concludes with a chapter that guides physicians in putting it all together The second section is the largest section of the book and contains 25 case based chapters organized by major presenting clinical features Each chapter has a similar structure and includes red flags of the history and the physical case examples clinical pearls and editor comments Cases vary from common presentations of back pain such as back pain related to back packs to rare presentations of back pain such as back pain stemming from tuberculosis The third and final section of the book contains additional resources for the primary care physician including web sites parent handouts and a

bibliography of key articles This section provides further information and alternative resources for the practicing clinician Written by experts in the field Back Pain in the Young Child and Adolescent is a must have resource for pediatricians primary care physicians and any other clinicians caring for younger patients who are experiencing back pain *Imaging of Orthopedic Sports Injuries* Filip M. Vanhoenacker, Mario Maas, Jan L.M.A. Gielen, 2007-01-17 This volume provides an updated review of imaging abnormalities in orthopedic sports injuries The first part of the book contains background information on relevant basic science and general imaging principles in sports traumatology The second part comprises a topographic discussion of sports injuries Each chapter highlights the merits of different imaging techniques focused on a specific clinical problem In the third part natural history monitoring and follow up imaging are discussed **Empathy in a Broader Context: Development, Mechanisms, Remediation** Simon Surguladze, Dessa Bergen-Cico, 2020-07-17

Growth, Maturation, Physical Activity, and Sport Robert M. Malina, 2025-04-07 Growth Maturation Physical Activity and Sport Third Edition is uniquely focused on the biological growth and maturation of children and adolescents in relation to physical performance both physical activity and sport Written by a true legend in the field Robert M Malina this latest edition features new content exploring the characteristics of youth sport participants associated benefits and risks and efforts aimed at talent development This essential resource guides readers through the complexities of human growth and maturation with the latest research findings and over 350 charts and illustrations that visually support the material The content has been expanded and modified to incorporate recent advances in technology and science such as progress in the study of the human genome deeper understanding of hormone regulation during growth and advancements in body composition assessment Growth Maturation Physical Activity and Sport Third Edition uses a five part structure enabling readers to gain a basic understanding of growth and maturation and then build upon that foundation The first two parts focus on age and sex associated variations in body composition and explore the concept of biological maturation Part III discusses primary factors that interact to regulate the process of growth and maturation hormones genes nutrients and energy and social factors Part IV considers motor development and performance from infancy through adolescence Part V has been added to provide an overview of youth sports participation statistics and motivation for participation as well as a review of the growth and maturity characteristics of male and female participants in a variety of team and individual sports Growth Maturation Physical Activity and Sport Third Edition is the only text to focus on the biological growth and maturation process of children and adolescents as it relates to physical activity and performance Readers will complete the text with an appreciation for the field and its influence in physical education kinesiology and the sport sciences

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