

## 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 ...

# Sample Mri Spine Report

**Xiang Xie**



## **Sample Mri Spine Report:**

*Spinal Imaging and Image Analysis* Shuo Li,Jianhua Yao,2014-12-17 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

*Imaging of the Spine* Thomas P. Naidich, MD,Mauricio Castillo, MD,Soonmee Cha, MD,Charles Raybaud, MD,James G. Smirniotopoulos, MD,Spyros Kollias,2010-08-27 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 in print and online Renowned experts Drs Thomas P Naidich Mauricio Castillo Charles Raybaud James G Smirniotopoulos Soonmee Cha and Spyros Kollias cover every aspect of spine imaging including the latest diagnostic modalities interventional techniques and image guided procedures through over 1300 digital quality illustrations Access the fully searchable text online at expertconsult.com with downloadable images View 1300 digital quality 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 points boxes

*essentials of skeletal radiology* , *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.

**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 subspecialty 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 subspecialty. To keep the content relevant to them, we have tried to stay upgraded to their level. This book comprises six volumes which give 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 subspecialty 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 a 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 a 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, PET/CT, 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.

**Radio Waves in Medicine**

Felicia Dunbar, AI, 2025-02-27. Radio Waves in Medicine reveals the pivotal role of radio waves in modern medical diagnostics.

allowing unparalleled views inside the human body These waves characterized by their frequency and wavelength are the backbone of crucial technologies like Magnetic Resonance Imaging MRI MRI offers superior resolution and contrast compared to older methods like X rays especially for soft tissues The book explores the physics of radio waves the engineering of MRI machines and their clinical applications across various diseases It highlights how radio wave technology facilitates earlier and more accurate diagnoses ultimately improving patient care Progressing logically the book begins with the basics of radio waves and delves into MRI principles neuroimaging cardiovascular imaging and musculoskeletal imaging culminating in discussions of emerging trends and ethical considerations This resource is particularly valuable for medical students physicians and biomedical engineers seeking a current understanding of this rapidly advancing field By integrating scientific literature clinical studies and technical specifications *Radio Waves in Medicine* presents complex concepts in an accessible manner emphasizing the revolution this technology has brought to healthcare

**Neuroethics** Judy Illes, Sharmin Hossain, 2017 Over the last decade there have been unparalleled advances in our understanding of brain sciences In this volume on neuroethics a distinguished group of contributors from a range of disciplines discuss the ethical implications of this newfound knowledge and set out the many necessary considerations for the future

*Clinical Imaging* Dennis Marchiori, 2013-08-13 Selected for Doody's Core Titles 2024 in Chiropractic *Clinical Imaging* by Dennis Marchiori is a comprehensive text with a clear concise writing style that allows students and practitioners to quickly develop a better understanding of diagnostic imaging Covering soft tissue imaging and skeletal imaging including brain and spinal cord chest and abdomen *Clinical Imaging* seamlessly integrates plain film with MRI and CT And with more than 3 500 illustrations all contained in one volume this trusted text offers the most effective realistic and comprehensive approach available today In terms of value for money the recommended price is very fair for 1 462 pages especially when one includes the additional online content available using a scratch card code that includes case studies flash cards interactive examinations and image collections Reviewed by RAD Magazine Jan 2015 For students who need to get up to speed with abnormal radiographic appearances this book is a good start Reviewed by RAD Magazine Jan 2015 Combines the innovative pattern approach with more traditional detailed descriptions to emulate real world patient interaction without sacrificing more in depth content on disease states Innovative Pattern Approach uses the patterns that link similar abnormalities to help you learn to identify and just as importantly differentiate abnormalities Extensive cross referencing from pattern to disease descriptions enables the reader to quickly find more detailed information Dedicated chapter on the key subject of radiology physics including algorithms for improving film quality A glossary of nearly 500 radiological terms NEW Over 800 new or updated images NEW State of the art MRI images deliver more comprehensive content for this growing field within imaging NEW Updated photographs familiarize you with radiographic positioning equipment NEW Clearer more detailed line art visually reinforces your understanding of new concepts NEW Additional contributors provide fresh perspectives on important topics and trends

Diagnostic Imaging: Spine - E-Book Jeffrey S. Ross, Kevin R. Moore, 2025-05-16 Covering the entire spectrum of this fast changing field Diagnostic Imaging Spine fifth 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 image rich with succinct bullets that quickly convey details and includes the latest literature references 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 the spine neck and central nervous system Contains six robust sections each beginning with normal imaging anatomy and covering all aspects of this challenging field Congenital and Genetic Disorders Trauma Degenerative Diseases and Arthritides Infection and Inflammatory Disorders Peripheral Nerve and Plexus and Spine Postprocedural Posttreatment Imaging Features 3 200 high quality print images with an additional 2 100 images in the complimentary eBook including radiologic images full color medical illustrations clinical photographs histologic images and gross pathologic photographs Provides new and expanded content on CSF leak disorder and root sleeve leak CSF venous fistulas demyelinating disease based upon better knowledge of MS neuromyelitis optica spectrum disorder anti MOG disorders malignant nerve sheath tumor and paragangliomas and spinal ependymomas including myxopapillary and classical cellular spinal ependymoma Contains new chapters on both imaging technique and diseases disorders and existing chapters have been rearranged to better represent current information on inflammatory and autoimmune disorders and systemic manifestations of diseases Provides updates from cover to cover including overviews and new recommendations for evaluation of transitional spinal anatomy spine enumeration which have important and practical applications in routine imaging with downstream effects on spine intervention Uses bulleted succinct text and highly templated chapters for quick comprehension of essential information at the point of care Any additional digital ancillary content may publish up to 6 weeks following the publication date

**Caring is Sharing — Exploiting the Value in Data for Health and Innovation** Maria Hägglund, Madeleine Blusi, Stefano Bonacina, Lina Nilsson, Inge Cort Madsen, Sylvia Pelayo, Anne Moen, 2023-06-15 Modern information and communication technologies make it easier for individuals to be involved in their own health and social care They also facilitate contact between individuals and service providers and deliver more efficient tools for healthcare staff Artificial Intelligence AI promises to bring even more benefits in the future with more effectiveness and the provision of decision support This book presents the proceedings of the 33rd Medical Informatics Europe Conference MIE2023 held in Gothenburg Sweden from 22 to 25 May 2023 The theme of MIE2023 was Caring is Sharing Exploiting Value in Data for Health and Innovation stressing the increasing importance of sharing digital health data and the related challenges The sharing of health data is developing rapidly both in Europe and beyond so the focus of the conference was on the enabling of trustworthy sharing of data to

improve health Topics covered include healthcare community care self care public health and the innovation and development of future proof digital health solutions and the almost 300 papers divided into 10 chapters also cover important advances in the sub domains of biomedical informatics decision support systems clinical information systems clinical research informatics knowledge management and representation consumer health informatics natural language processing public health informatics privacy ethical and societal aspects among them Describing innovative approaches to the collection organization analysis and data sharing related to health and wellbeing the book contributes to the expertise required to take medical informatics to the next level and will be of interest to all those working in the field      *Medicolegal Reporting in Orthopaedic Trauma* Michael A. Foy, Phillip S. Fagg, 2011-12-05 This book now a classic was developed to facilitate the preparation of medicolegal reports following musculoskeletal injuries It collates data from the world literature in one source together with review articles on related topics such as Repetitive Strain Injury As a result it saves readers from the time consuming task of researching multiple references A comprehensive guide to the preparation of medicolegal reports in the field of personal injury litigation following musculoskeletal trauma It provides prognostic information following musculoskeletal injuries and assists the clinician acting as an expert medical witness prepare the report Each of the chapters is devoted to different areas of injury and takes the reader through the full range of treatments results and complications and how these impact on prognosis Collates data on treatment results complications from the relevant medical literature and review articles and saves the orthopaedic surgeon acting as an expert witness a lot of hours of unnecessary research

**Case reports in dermatology** Andreas Recke, Takashi Hashimoto, 2023-09-26      *JIMD Reports - Volume 11* Johannes Zschocke, K Michael Gibson, Garry Brown, Eva Morava, Verena Peters, 2013-08-26 JIMD Reports publishes case and short research reports in the area of inherited metabolic disorders Case reports highlight some unusual or previously unrecorded feature relevant to the disorder or serve as an important reminder of clinical or biochemical features of a Mendelian disorder

*Case Reports in Surgical Oncology: 2022* Riccardo Bertolo, Akinfemi Akingboye, Tomoyuki Abe, Zhaolun Cai, 2024-02-20 This Research Topic aims to collect all the Case Reports submitted to the Surgical Oncology section All the Case Reports submitted to this collection will be personally assessed by a senior Associate Editor before the beginning of the peer review process Please make sure your article adheres to the following guidelines before submitting it      *MRI Utilization Model* Suzanna Hoppszallern, 1990      *Case Reports in Neurocritical and Neurohospitalist Care, volume III - 2023* Sean

Ruland, Michael J. Schneck, 2024-03-26 This Research Topic aims to collect all the Case Reports submitted to the Neurocritical and Neurohospitalist Care section All the Case Reports submitted to this collection will be personally assessed by a senior Associate Editor before the beginning of the peer review process Please make sure your article adheres to the following guidelines before submitting it      **Case Reports in Infectious Diseases - Surveillance, Prevention and**

**Treatment** Ana Afonso, Francesco Paolo Bianchi, 2023-09-07      Health Technology Assessment Reports , 1990

**Neuroinfectious Diseases - Case Report Collection 2022** Christina M. Marra, 2023-06-23      Side Effects of Drugs Annual, 2023-10-30 Side Effects of Drugs Annual A Worldwide Yearly Survey of New Data in Adverse Drug Reactions Volume 45 first published in 1977 presents clinicians and medical investigators with a critical survey of new data and trends in adverse drug reactions and interactions Topics covered include ADRs ADEs and SEDs A Bird s Eye View Lithium Drugs of abuse Side effects of drugs used in the treatment of Alzheimer s disease Sedatives and hypnotics Antipsychotic agents Anti epileptic Medications Side effects of opioid analgesics and narcotic antagonists Anti inflammatory and antipyretic analgesics and drugs used in gout Side effects of local anesthetics and therapeutic gases and more Other sections covered include Antihistamines H1 receptor antagonists Drugs that act on the respiratory tract Positive inotropic drugs and drugs used in dysrhythmias Beta adrenergic antagonists and antianginal drugs Drugs acting on the cerebral and peripheral circulations Antihypertensive drugs and much much more Provides a critical yearly survey of the new data and trends regarding the side effects of drugs Authored and reviewed by worldwide pioneers in the clinical and practice sciences Presents an essential clinical guide on the side effects of drugs for practitioners and healthcare professionals alike



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