#### **MRI Lumbar Spine**

#### Sample Report

PATIENT: DOE, REGINA PATIENT ID: 146713

DATE OF BIRTH: 1/4/1967

EXAM DATE: 1/1/2013

#### EXAMINATION: MRI Lumbar Spine

REFERRING PHYSICIAN: BANNER, ROSS, MD

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:

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

Electronically Signed/Dated By . . .

# **Sample Mri Spine Report**

Maria Hägglund, Madeleine Blusi, Stefano Bonacina, Lina Nilsson, Inge Cort Madsen, Sylvia Pelayo, Anne Moen

#### **Sample Mri Spine Report:**

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, 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 Computed Tomography & Magnetic Resonance Imaging Of The Whole Body E-Book John R. Haaga, Daniel Boll, 2016-06-06 Now more streamlined and focused than ever before the 6th edition of CT and MRI of the Whole Body is a definitive reference that provides you with an enhanced understanding of advances in CT and MR imaging delivered by a new team of international associate editors Perfect for radiologists who need a comprehensive reference while working on difficult cases it presents a complete yet concise overview of imaging applications findings and interpretation in every anatomic area The new edition of this classic reference released in its 40th year in print is a must have resource now brought fully up to date for today s radiology practice Includes both MR and CT imaging applications allowing you to view correlated images for all areas of the body Coverage of interventional procedures helps you apply image guided techniques Includes clinical manifestations of each disease with cancer staging integrated

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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 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 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

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