

Name of Journal: *World Journal of Radiology*

ESPS Manuscript NO: 20370

Manuscript Type: Review

MR Imaging of the spinal marrow: basic understanding of the normal marrow pattern and its variant

Mohamed Ragab Nouh, Ahmed Fathi Eid

Abstract

For now, MR is the best noninvasive imaging modality to evaluate vertebral bone marrow thanks to its inherent soft-tissue contrast and non-ionizing nature. A daily challenging scenario for every radiologist interpreting MR of

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Division of Musculoskeletal Imaging, Wilford Hall Ambulatory Surgical Center, San Antonio, TX. Bone marrow is ... In part I of our review, the normal MRI appearance of bone marrow and its pattern of ... patterns of marrow in the spine among varying age groups. requires an understanding of the normal pattern of marrow....

MRI of Spinal Bone Marrow: Part 1, Techniques and Normal Age ...

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In adults spinal bone marrow is best imaged with MRI due to the exquisite ... in its imaging pattern in the spine, it will only be briefly discussed in this article. the appearance of post-treatment myeloma on MR as a bridge to understanding the Normal variants and frequent marrow alterations that simulate bone marrow....

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With its exquisite contrast resolution and ability to differentiate hematopoietic and fatty marrow, MRI is ... row MRI, normal anatomic and physiologic variants, and the MRI findings in com- ... Recognition of these differences is important to understanding the MRI pattern of marrow distribution is reached by the middle of the.

MR Imaging Characteristics of Cranial Bone Marrow in Adult ...


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Our purpose was to compare cranial marrow signal intensity patterns in adults ... MR imaging is particularly well suited for the study of bone marrow, because it ... an understanding of normal marrow characteristics on MR images is necessary. slightly greater T1 and T2 relaxation times in their vertebral bodies relative to....

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Magnetic resonance imaging of the normal bone marrow

BCV Berg, J Malghem, FE Lecouvet, B Maldague - Skeletal radiology, 1998 - Springer

... or parallel (in-phase im- ages) due to **their** difference in **resonance** frequency (chemical ... These **magnetic** susceptibility changes at the trabecular interfaces induce a decrease in T2* relaxation ... dynamic, and this produces a wide spectrum of appearances of bones at MR **imaging**. ...

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Magnetic resonance imaging of bone marrow in oncology, Part 1

S Hwang, DM Panicek - Skeletal radiology, 2007 - Springer

... 23. Baur A, Stabler A, Huber A, Reiser M. Diffusion-weighted **magnetic resonance imaging** of **spinal** bone **marrow**. ... 29. Sebag GH, Moore SG. Effect of trabecular bone on the appearance of **marrow** in gradient-echo **imaging** of the appendic- ular skeleton. ...

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Classification and detection of bone marrow lesions with magnetic resonance imaging

BCV Berg, J Malghem, FE Lecouvet, B Maldague - Skeletal radiology, 1998 - Springer

... Key words Bone * **Marrow** * **Magnetic resonance** * Classification ... sparse vascularity of yellow **marrow** [1, 5]. Anatomic sites to evaluate with MR **imaging** should be ... high proportion of hematopoietic **marrow** in adults and **it** enables screening for potential **spinal cord** compression [...

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JS Blebea, M Houseni, DA Torigian, C Fan... - Seminars in nuclear ..., 2007 - Elsevier

... To date, several useful techniques, such as bone **marrow** aspiration and biopsy, **magnetic resonance imaging** (MRI), and ... T2-weighted fast spin echo **imaging** but is susceptible to **magnetic** field inhomogeneities ... MDP), 201 Tl-chloride, 67 Ga-citrate, and FDG-PET scan **imaging**. ...

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