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Observational Study

Relative volume measured with magnetic resonance imaging is an articular collapse predictor in hematological pediatric patients with femoral head osteonecrosis

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Abstract

AIM: To assess the potential value of femoral head (FH) volume measurements to predict joint collapse, as compared to articular surface involvement, in post-treatment osteonecrosis (ON) in pediatric patients affected by lymphoproliferative diseases.

METHODS: Considering 114 young patients with lymphoproliferative diseases undergone a lower-limbs MRI examination between November 2006 and August 2012 for a suspected post-treatment ON, we finally considered a total of 13 cases (7 males, mean age 15.2+/-4.8 years), which developed a FH ON lesions (n=23). The MRI protocol included coronal short tau inversion recovery (STIR) and T1-weighted sequences, from the hips to the ankles. During the follow-up (elapsed time: 9.2+/-2 months) 13/23 FHs developed articular deformity. The first MRI studies with

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2015年9月5日 - **Avascular necrosis** (AVN) of the **femoral head** is an increasingly common ... The physis is a thin line of **low** signal extending from the lateral to the If the vascular area is small **and** is not adjacent to an **articular surface**, the **patient** may be **MRI** allows sequential evaluation of asymptomatic **lesions** that are ...

Volume 470 | Issue 12 - Clinical Orthopaedics and Related ...

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MRI of Hip Cartilage: Joint Morphology, Structure, **and** Composition ... Wall Index for Assessing Anteroposterior **Femoral Head** Coverage in Symptomatic **Patients** ... focal parafoveal chondral defects differ from previously reported **lesions and** allows for medical **and** surgical intervention before **articular surface collapse**.

Osteonecrosis of the femoral Head. Etiology, imaging and ...

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Etiology, imaging **and** treatment on ResearchGate, the professional network for scientists. ... Fig. 3, A middle-aged male **patient** with right hip **osteonecrosis and**.

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2014年1月24日 - (TJA) in **patients** treated for cancer in childhood, adolescence **or** Nordic Society of **Pediatric Hematology and Oncology**. ON ON **lesions** are typically bilateral in distribution **femoral head articular collapse** based on **MRI** images (Steinberg et al. the **articular surface** (Yeh et al. ON in upper limbs

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Imaging in Avascular Necrosis of the Femoral Head: Overview

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缺少字词：hematological

[PDF] ACR appropriateness criteria: Osteonecrosis of the Hip

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Child. **Osteonecrosis** with **femoral head collapse** by radiographs in the painful hip(s). ... radionuclide bone scintigraphy, and **magnetic resonance imaging** (MRI), with or ... lateral views of the hip should be obtained because **articular collapse** or ... **patients**, CT can also be useful to identify the extent or **volume** of disease and ...

缺少字词：hematological

The Pathogenesis of Nontraumatic Osteonecrosis

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作者：J Seamon - 2012 - 被引用次数：49 - [相关文章](#)

2012年10月28日 - Nontraumatic **osteonecrosis** (ON) of the **femoral head** continues to ... is detectable by **magnetic resonance imaging** (MRI) and represents the ... become osteopenic from **relative patient** inactivity over the course of the disease [1, 25, 81–84].

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作者: SK Ballas - 2012 - 被引用次数: 52 - 相关文章

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However, volumetric **magnetic resonance imaging measurements** ... gray matter or **volume** of the hippocampus between **patients** and controls, **femoral** and humeral **head** and spine, results in **avascular necrosis** or **AVN** [146, 198, 199].

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作者: S Mostoufi-Moab - 2014 - 被引用次数: 2 - 相关文章

2014年7月2日 - More importantly, **pediatric patients** with ALL demonstrate a higher ... the prevalence ratio of fractures was lower among survivors **relative** to the sibling

Magnetic resonance imaging (MRI) is a sensitive tool for detecting ON at **Predictors** of bony morbidity in children with acute lymphoblastic leukemia.

The Pathogenesis of Nontraumatic Osteonecrosis

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