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Magnetic Resonance Imaging (MRI) of small anatomic regions, joints and vasculatures at 0.255t using small coils of various sizes and geometries Pages 200-201

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Clinical Magnetic Resonance Imaging: 3-Volume Set 3rd Edition by Robert R. Edelman (Author), John Hesselink (Author), Michael Zlatkin (Author) & 0 more 2.3 out of 5 stars 2 ratings

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Now in two volumes, the Third Edition of this standard-setting work is a state-of-the-art pictorial reference on orthopaedic magnetic resonance imaging. It combines 9,750 images and full-color illustrations, including gross anatomic dissections, line art, arthroscopic photographs, and three-dimensional imaging techniques and final renderings.

Magnetic Resonance Imaging in Orthopaedics and Sports

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Magnetic resonance imaging (MRI) is a medical imaging technique used in radiology to form pictures of the anatomy and the physiological processes of the body. MRI scanners use strong magnetic fields, magnetic field gradients, and radio waves to generate images of the organs in the body. MRI does not involve X-rays or the use of ionizing radiation, which distinguishes it from CT and PET scans.

Magnetic resonance imaging - Wikipedia

Functional connectivity in blood oxygenation level-dependent and cerebral blood volume-weighted resting state functional magnetic resonance imaging in the rat brain. Matthew Magnuson BS; Waqas Majeed BS; Shella D. Keilholz PhD; Pages: 584-592; First Published: 27 August 2010

Journal of Magnetic Resonance Imaging: Vol 32, No 3

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Journal of Magnetic Resonance Imaging. Navigation Bar Menu Home. Home; About. Overview; Contact; ... Virtual Issues; Follow journal. Alert; RSS Feeds. Most recent (RSS) Most cited (RSS) Issue. Volume 52, Issue 3. Pages: spcone, 639-959. September 2020. Previous Issue | Next Issue. GO TO SECTION. Export ... Interreader Agreement of Liver Imaging ...

Journal of Magnetic Resonance Imaging: Vol 52, No 3

1. Angle Orthod. 1991 Fall;61(3):175-84. Estimation of tongue volume from magnetic resonance imaging. Lauder R(1), Muhl ZF. Author information: (1)College of Dentistry, Department of Orthodontics, Chicago, IL 60612. Magnetic resonance imaging was used to estimate the volume of the tongue, oropharynx, and oral cavity in 19 adults.

Estimation of tongue volume from magnetic resonance imaging.

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Cardiac magnetic resonance ECV imaging was performed in 126 patients with T1 mapping before and after injection of gadolinium contrast. Conventional LGE images were acquired for the left ventricle. In patients with a prior myocardial infarction, the infarct region had an ECV of $51 \pm 8\%$ which did not overlap with the remote 'normal appearing' myocardium that had an ECV of $27 \pm 3\%$ ($P < 0 \dots$

Extracellular volume imaging by magnetic resonance imaging ...

In the present study, we measured IMH volume using three-dimensional (3D) T1-weighted magnetic resonance imaging (T1-MRI) and investigated its association with biomarkers. Moreover, the accuracy of semi-automatic measurement of IMH volume was validated.

Quantification of intramyocardial hemorrhage volume

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using ...

Measurement of frontal lobe volume on magnetic resonance imaging scans Psychiatry Res. 1997 Aug 8;75(1):23-30. doi: 10.1016/s0925-4927(97)00026-7. Authors E H Aylward 1 , A Augustine, Q Li, P E Barta, G D Pearlson. Affiliation 1 Department of Psychiatry ...

Measurement of frontal lobe volume on magnetic resonance ...

BACKGROUND: In patients with rotator cuff tears, muscle degeneration is known to be a predictor of irreparable tears and poor outcomes after surgical repair. Fatty infiltration and volume of the whole muscles constituting the rotator cuff were quantitatively assessed using 3-dimensional 2-point Dixon magnetic resonance imaging.

Quantitative assessment of fatty infiltration and muscle

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Portable magnetic resonance imaging (MRI) is referred to the imaging provided by an MRI scanner that has mobility and portability. [1] [2] [3] It provides MR imaging to the patient in-time and on-site, for example, in Intensive care unit (ICU) where there is danger associated with moving the patient, in an ambulance , after a disaster rescue, or in a field hospital/medical tent.

Portable magnetic resonance imaging - Wikipedia

MAGNETIC RESONANCE IMAGING CONTENT OUTLINE ARRT BOARD APPROVED: JANUARY 2019 IMPLEMENTATION DATE: JANUARY 1, 2020 5 Image Production 1. Physical Principles of Image Formation A. Instrumentation 1. electromagnetism (e.g., Faraday's law) 2. static magnet a. types (superconductive, resistive, permanent) b. magnetic field strength c. shim coils 3.

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Magnetic Resonance Imaging

Spin waves—the elementary excitations of magnetic materials—are prime candidate signal carriers for low-dissipation information processing. Being able to image coherent spin-wave transport is crucial for developing interference-based spin-wave devices. We introduce magnetic resonance imaging of the microwave magnetic stray fields that are generated by spin waves as a new approach for ...

Magnetic resonance imaging of spin-wave transport and

...

CSF volume was measured in volunteers, and the effect of obesity and abdominal compression on CSF volume was evaluated using magnetic resonance imaging. Methods Low thoracic and lumbosacral axial magnetic resonance images of 25 healthy volunteers were obtained at 8-mm intervals by fast spin-echo sequence, which highlights CSF.

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Magnetic Resonance Imaging of Cerebrospinal Fluid Volume ...

Magnetic resonance imaging assessment of the severity of mitral regurgitation: comparison with invasive techniques. Circulation. 1995; 92: 1151-1158. Crossref Medline Google Scholar; 57 Kizilbash AM, Hundley WG, Willett DL, Franco F, Peshock RM, Grayburn PA.

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