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Diffusion Mri From Quantitative Measurement

For diffusion tensor imaging (DTI) the DWIs are usually collected along several non-collinear directions and used to estimate the

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apparent diffusion coefficient (ADC) (Le Bihan et al., 1986), ...

Investigating the need of triggering the acquisition for infant diffusion MRI: A quantitative study including bootstrap statistics

In theory, quantitative MRI techniques that measure accurately and reproducibly ... myelin water imaging (MWI), and T2 relaxometry] and diffusion-microstructure MRI measurements may be most ...

Quantitative Magnetic Resonance Imaging Towards Clinical Application in Multiple Sclerosis

The aim of the present study was to apply diffusion tensor MRI (DT-MRI), a quantitative MRI measure which reflects tissue organization, to dementia with Lewy bodies (DLB). DT-MRI scans were obtained ...

Brain tissue damage in dementia with Lewy bodies: An in vivo diffusion tensor MRI study

We propose a linear-elastic registration method to register diffusion-weighted MRI (DW-MRI) data sets by mapping their diffusion orientation distribution functions (ODFs). The ODFs were reconstructed ...

Diffusion MRI registration using orientation distribution functions.

The Siemens Magnetom Prisma 3T MRI scanner offers excellent neuroimaging capabilities allowing a wide range of functional and structural brain measures to ... Weighted Imaging (SWI), Quantitative ...

MRI scanner

Diffusion-weighted imaging uses diffusion-sensitizing gradients during image acquisition for radiologists to measure water

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motion ... and positive predictive value of conventional breast MRI. Studies ...

Progress made, but more needed for diffusion-weighted breast imaging

F.Y.). Background— Diffusion tensor ... Zonal Segmentation of DT-MRI Measurements and Regional LV Function After the above data analysis, the viability map by CDE-MRI was used as a reference to ...

Diffusion Tensor Magnetic Resonance Imaging Mapping the Fiber Architecture Remodeling in Human Myocardium After Infarction

Quantitative T1 and T2 mapping were performed with a 1.5-T MRI scanner and compared with a fast free-breathing acquisition technique for ADC mapping (approximate duration, 3 minutes; five slices; spin ...

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MRI of reperfused acute myocardial infarction edema: ADC quantification versus T1 and T2 mapping

MR imaging at the time of diagnosis of recurrence and for 6 months prior to diagnosis was evaluated for presence of contrast enhanced lesions, size of contrast enhanced lesions, presence of lesions ...

MEDU-40. DETECTION OF NON-ENHANCING RECURRENT MEDULLOBLASTOMA ON DIFFUSION WEIGHTED IMAGING

Twelve ICH patients were serially imaged on a 3T MRI at 1, 3, and 12 months (M ... that were used as regions-of-interest (ROI) to measure imaging matrices over time. The rows 2-5 are displaying ...

Longitudinal, Quantitative, Multimodal MRI Evaluation of Patients With Intracerebral Hemorrhage Over the First

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The measurement of these MR imaging biomarkers in addition ... indicating that cellular breakdown in WMH allows quantitative MRI parameters to take a much wider range of values than in healthy tissue, ...

What are White Matter Hyperintensities Made of?

Objectives: To investigate the diagnostic performance of the Kaiser score and apparent diffusion coefficient ... the state-of-the-art MRI protocol (3) in the prone position. Detailed parameters are ...

A Comparative Assessment of MR BI-RADS 4 Breast Lesions With Kaiser Score and Apparent Diffusion Coefficient Value

Researchers reviewed diffusion tensor imaging (DTI) brain scans from a large dataset of patients between the age of six months

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and 50 years. DTI is an MRI technique that measures
connectivity in ...

Autism changes brain's white matter over time

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