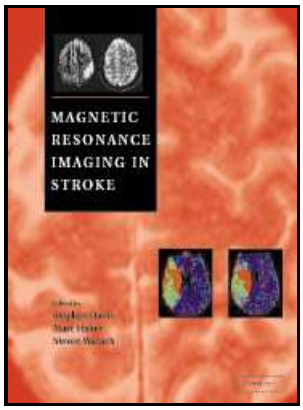
Magnetic resonance imaging in stroke

Cambridge University Press - Magnetic Resonance Imaging in Ischemic Stroke



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Notes: Includes bibliographical references and index.
This edition was published in 2003

Filesize: 19.610 MB

Tags: #Magnetic #Resonance #Imaging #in #Ischemic #Stroke

Magnetic Resonance Imaging in Ischemic Stroke

However, to better clarify the neurological environment, susceptibility-weighted imaging SWI for assessing oxygen saturation and the presence of CMBs as well as additional modalities, such as amide proton transfer APT imaging for pH mapping, have emerged to offer more insight into anatomical and biological conditions during stroke. However, solving the ODF requires high angular resolution MRI data.

Magnetic Resonance Imaging of Stroke in the Rat

On these images, T 1 and T 2 maps failed to detect ischemic lesions at 2 h after onset of stroke; while ADC w map identified the infarction by 2 h post ischemia. This phenomenon is called compensatory overperfusion after acute ischemic stroke.

Diffusion Weighted Magnetic Resonance Imaging (MRI) in Stroke

Inversion of the longitudinal magnetization is accomplished using a non-selective hyperbolic secant adiabatic pulse of 8 ms duration.

Recent advances in magnetic resonance imaging for stroke diagnosis Rastogi R, Ding Y, Xia S, Wang M, Luo Y, Choi HS, Fan Z, Li M, Kwiecien TD, Haacke EM

Using 4 averages, Q-ball and DKI took 27 and 31 h, respectively. It is mainly used to look for stenosis and lack of flow. Superparamagnetic iron oxide nanoparticles SPIONs as an exogenous contrast and arterial spin labeling ASL as an endogenous contrast offer innovative alternatives.

Recent advances in magnetic resonance imaging for stroke diagnosis Rastogi R, Ding Y, Xia S, Wang M, Luo Y, Choi HS, Fan Z, Li M, Kwiecien TD, Haacke EM

CT can rapidly assess the presence of major intracranial hemorrhage and rule out giving tPA.

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