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Proton magnetic resonance spectroscopy (MRS) is an excellent technique for detecting active demyelination; however, it is not capable of assessing intact myelin. Diffusion tensor imaging (DTI) measures the kinetics of water molecules.

Myelin water imaging is a magnetic resonance imaging method which can be used to visualize myelination in the brain and spinal cord in vivo. This review presents an overview of myelin water imaging data acquisition and analysis, post-mortem validation work, findings in both animal and human studies and a brief discussion about other MR techniques purported to provide in vivo myelin content.

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Two colleagues were particularly helpful ledge of genetic defects, biochemical abnormalities, and provided us with essential and unpublished f- and cellular processes underlying myelin disorders. ures: our friends Susan Blaser,from the Hospital for This immense progress has prompted us to embark Sick Children in Toronto,and Zoltán Patay,from the upon the enormous task of rewriting the ...
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AbstractWhite matter myelination is essential to postnatal neurologic maturation and can be accurately evaluated by magnetic resonance imaging (MRI). Accordingly, MRI pulse sequences should be optimized for detection of myelin in young children. T1-weighted images are most useful during thefirst year of life.

Magnetic resonance imaging of myelin. Laule C(1), Vavasour IM, Kolind SH, Li DK, Traboulsee TL, Moore GR, MacKay AL. Author information: (1)Department of Radiology, University of British Columbia, Vancouver, BC, V6T 2B5 Canada. claule@physics.ubc.ca

Early magnetic resonance imaging of at-risk infants, while frequently showing increased T1-signal in these regions, may give false-positive findings due to the presence of myelin in these structures. Advanced magnetic resonance imaging including diffusion-weighted imaging, magnetic resonance spectroscopy, and diffusion tensor imaging with tractography may shed new insights into the pathogenesis of bilirubin-induced brain injury and the neural basis of long-term disability in infants and ...

To date, magnetic resonance imaging (MRI) has been the primary tool for diagnosing and monitoring the progression of myelin diseases. 6, 7 Unfortunately, any change in signal intensity on a dual echo T 2-weighted sequence reflects a change in tissue water content, which is a non-specific measure of the overall changes in macroscopic tissue injury ranging from edema to inflammation, demyelination, and axonal loss. 8 As a result, the use of MRI as a primary measure of disease activity still ...

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