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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.

Magnetic Resonance of Myelin Water: An in vivo ...

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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 the first year of life.

Assessment of Normal Myelination with Magnetic Resonance ...

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 T2-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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Interpretation: Rapid Estimation of Myelin for Diagnostic Imaging provides robust myelin quantification that detects diffuse demyelination in normal-appearing tissue in multiple sclerosis, which is associated with both cognitive and clinical disability. Because the technique is fast, with automatic postprocessing and US Food and Drug Administration/CE clinical approval, it can be a clinically feasible biomarker that may be suitable to monitor myelin dynamics and evaluate treatments aiming at ...

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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 ...

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