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Validation of myelin imaging technique in patients with MS

A study recently published in Annals of Neurology determined that SyMRI provides robust myelin quantification in patients with MS.

The study published by Ouellette et al. concluded that SyMRI “provides robust myelin quantification that detects diffuse demyelination in normal-appearing tissue in multiple sclerosis, which is associated with both cognitive and clinical disability. Since the technique is fast with automatic post-processing and FDA/CE clinical approval, it can be a clinically feasible biomarker that may be suitable to monitor myelin dynamics and evaluate treatments aiming at remyelination.”

The study from the Karolinska Institute titled ‘Validation of rapid magnetic resonance myelin imaging in multiple sclerosis’ from A Ouellette et al. was published in the Annals of Neurology.

The aim of the study was to assess the specificity, robustness and clinical value of the myelin quantification in SyMRI. This was done both ex-vivo, using three MS brain samples with various staining techniques, as well as in-vivo on 71 MS patients and 21 healthy controls.

Myelin segmentation using SyMRI correlated with myelin-related stains with good precision, providing further validation of the technique.

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