

MRS to Determine Neuroinflammation and Oxidative Stress in MPS I

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Neuroinflammation and oxidative stress have been shown to be present in persons with mucopolysaccharidosis type I (MPS I), but their effect on disease severity and disease progression is unknown. The investigator intends to employ brain magnetic resonance spectroscopy (MRS), a non-invasive technique, along with analysis of neuroinflammation and oxidative stress biomarkers in the blood, to measure and determine the level of oxidative stress and neuroinflammation, and their impact on clinical variability in MPS I patients.