

Fully Automated Motion-corrected MR Spectroscopy in Human Brain and Spinal Cord

Status: Recruiting

Eligibility Criteria

Sex: Male or Female

Age Group: Up to 18 years old

This study is also accepting healthy volunteers

Inclusion Criteria:

We are looking for healthy children volunteers who are: Do not have a history of neurological disorder (stroke, brain, or C-spine injury, etc., and are 6 years of age or older at time of screening.

Exclusion Criteria:

- Participants who cannot have an MRI, as determined by the CMRR safety screening form (e.g. metal implant) - Pregnancy - Claustrophobia - Inability or unwillingness to complete an MRI because of low cognitive function or behavioral dysregulation - Diabetes that has been diagnosed within the past 3 months (diabetes is OK if it is stably controlled (per participant report of either HbA1c <7.0 or stable control for at least 3 months)) - Hearing loss sufficient to prevent communication via telephone - Weight > 250 and BMI > 35. - Uncontrolled high blood pressure (>170/100) or working with doctor to stabilize blood pressure - Severe lung, liver, kidney or heart disease of other major organ failure. - Head size > 23.25 inches

Conditions & Interventions

Conditions:

Brain & Nervous System

Keywords:

MRI, MRS

More Information

Description: The goal of this proposal is to develop fully automated, high performance, motion-corrected MRS sequences for the brain and spinal cord, that are also easy to share (no additional external hardware needed) with other institutions and easy to use.

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