

## 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.

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**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.

**Study Contact:** Monica Bondy - bondy023@umn.edu

**Principal Investigator:** Dinesh Deelchand

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