

"6-H2 Primed vs. Unprimed Low-Frequency rTMS in Chronic Stroke"

Principal Investigator: James Carey, PhD, PT

The University of Minnesota's Program in Physical Therapy and Department in Rehabilitation Science are seeking adults and children for a new research study in hemiplegia involving the use of noninvasive brain stimulation. We are looking for individuals that have weakness on one side of their body. This study is approved by the Food and Drug Administration (FDA).

Participation involves five daily visits (Monday through Friday) to the University of Minnesota for three weeks with two 1-week breaks in between for a total of five weeks. Each visit lasts between 1.5-2 hours.

Pediatric participants will complete motor testing using their weak hand/arm and brain stimulation testing. Participants will also receive three sessions of non-invasive brain stimulation treatment each lasting 20 minutes. To be eligible, children need to be able to move the paretic hand partially, walk short distances, have no indwelling metal or medical devices, be between the ages of 8 to less than 18 years and have had no seizures within the last 2 years.

Adult participants will complete a neurologist examination along with tests of mood, memory, hand function and brain excitability. Participants will also receive three sessions of non-invasive brain stimulation treatment each lasting 20 minutes. We are seeking individuals who have had a stroke 6 months ago or longer. To be eligible participants need to be able to move the stroke hand partially, walk short distance, have no indwelling metal and have no history of a seizure.

We are not able to offer payment for participation, and there is no charge for the treatments. We will provide free parking or free taxi/transportation service to all study visits. For more information, please contact Jessica Cassidy, DPT at (612)626-0637 or krea0014@umn.edu.