

Cerebral Palsy study

Clinical Trial # <to be entered>

Principal Investigator: Dr. Felipe Fregni

Summary

The purpose of this research is to determine whether a non-invasive technique called transcranial direct current stimulation (tDCS) can change how children with cerebral palsy learn new movements. This technique uses a weak electrical current that is applied to the scalp through two saline-soaked sponges. During the study visits, we will also conduct several assessments in addition to stimulation, including movement assessments, and motor training.

In this study, we will compare the results from active tDCS to sham (or placebo) tDCS. You will not know what type of stimulation you will receive. You will receive one type of stimulation (either active or sham) for your entire participation. There is a 50% chance to receive either active or sham tDCS.

Time Commitment

This study has 7 visits over the course of about two weeks. The visits last between 1-1 ½ hours each.

Eligibility

We are looking for people who:

- Are 8-18 years old
- Have a diagnosis of mixed or spastic Cerebral Palsy

If you have had any of the following, you may not participate in the study:

- Have any contraindications to tDCS, including metallic implants in the head and/or implanted brain medical devices
- Pregnant at time of enrollment in the study
- Current use of carbamazepine
- Current ventriculoperitoneal shunt
- History of seizure within the past 2 years
- History of the following (within the last 3 months):
 - Muscle tone reduction therapy
 - Upper limb orthopedic surgery
 - Motor neuron junction inhibition (either biochemical or mechanical)

For more information, please contact us at the information listed below.
We will be happy to provide you with additional information about our study.

<u>Location</u>	<u>Contact Information</u>
Laboratory of Neuromodulation Spaulding Rehabilitation Network Research Institute CNY Bldg. 79/96 13 th Street Charlestown, MA 02129	Kayleen Weaver, BA <i>Research Coordinator</i> Email: kmweaver@partners.org Telephone: 617-952-6151