

Advanced Brain Imaging Research Study

Researchers at Boys Town Institute for Human Neuroscience are looking for participants for a noninvasive brain imaging study investigating a therapeutic technique called transcranial Direct Current Stimulation (tDCS).

Why are we doing this study?

The purpose of this study is to investigate how an emerging therapeutic technique called transcranial Direct Current Stimulation (tDCS) affects brain activity in both younger and older healthy individuals. The technique involves stimulating the scalp with low amplitude, direct current using small electrodes.

To study the brain, we will be using a series of brain imaging tests, both of which are noninvasive and considered harmless. One of these imaging tests is called magnetoencephalography (MEG). MEG involves sitting with a helmet-shaped device around your head while you complete mental tasks. The other imaging test is an MRI, which is noisy but painless and noninvasive.

You may be eligible if:

- You are between the ages of 19-35 or 55-72.
- You are right-handed.
- You have not been diagnosed with any neurological or psychological disorders.
- You are able to complete a series of mental tasks.
- You are not pregnant.

What will be done as part of this study?

- The study will involve three visits, each starting around the same time of day and lasting approximately 3 hours.
- Each visit will be structured the same way: first, you will have a 20-minute tDCS session. During this session, you will complete a mental task on a computer. Second, you will complete an MEG scan. During your third visit, you will have an MRI scan following your MEG.



There is no cost to you, and you will receive compensation for your time.

If you are interested in learning more about this research study please contact:

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