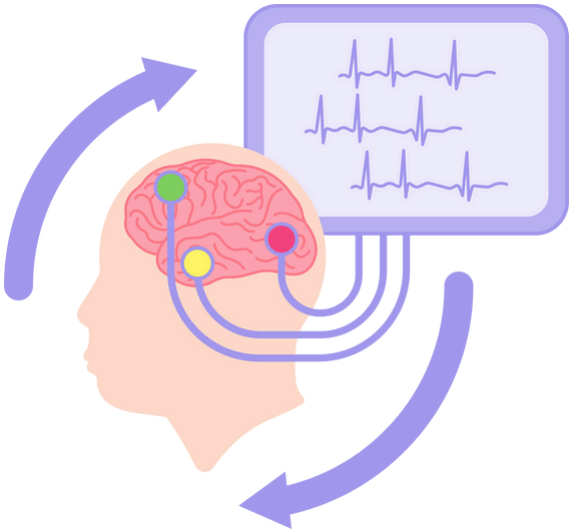
How do people with fibromyalgia react to pain stimuli? How are their physiological responses different?

Can brain stimulation relieve symptoms of fibromyalgia?



LEARN MORE:

CONTACT:

CHLOE DRAPEAU

Masters Student

Department of Kinesiology

EMAIL: macpain@mcmaster.ca

macneurolab.com/fibromyalgia-study

neurophysiology_imaging_lab

McMaster Neurophysiology & Imaging Lab

(Version 6, 1/5/24)

PARTICIPANTS WANTED IN FIBROMYALGIA STUDY

This study has been reviewed by the Hamilton Integrated Research Ethics Board (HiREB) under project #16482

PURPOSE

This study will explore potential biomarkers that can be used to effectively diagnose fibromyalgia. Furthermore, this study will also examine the effects of non-invasive brain stimulation to reduce pain experienced by people with fibromyalgia. This research is the first of its kind to explore fibromyalgia in these ways.

BENEFITS OF PARTICIPATING:

Identifying biomarkers for fibromyalgia can make diagnosing the condition less ambiguous.
If brain stimulation effectively reduces pain, then it can be explored further as a treatment option.

PARTICIPATION WILL INVOLVE: PART A OR PART A&B

Part A:

- Saliva sample
- Questionnaires
- Hand movement tasks
- Brain waves using EEG
- Brain Stimulation

Part B:

- Questionnaires
- Sensorimotor tasks
- Brain Stimulation

DURATION OF STUDY:

Part A: 2 sessions over 2 weeks (4 hours)

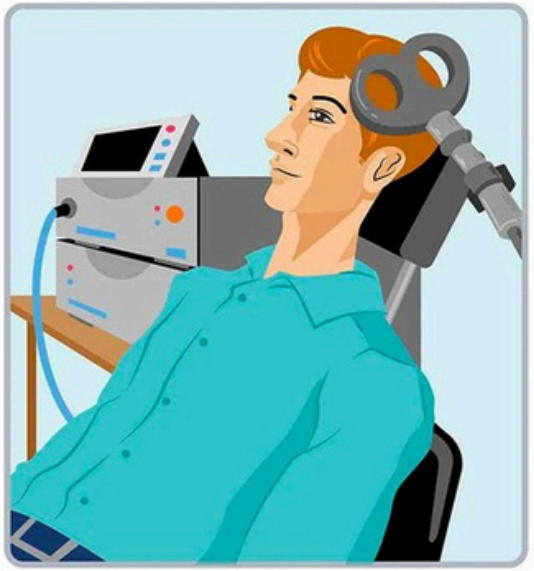
Part B: 10 sessions over 2 weeks (45 mins/ session)

COMPENSATION:

Exp A: $80
Exp B: $12 or parking pass/visit

*For completion of the study

ABOUT BRAIN STIMULATION:



To investigate our questions, this study will use brain stimulation: a non-invasive technique involving the delivery of a brief electric current to a specific part of the brain that controls movement; the Primary Motor Cortex.

The effects of brain stimulation will be recorded and examined by comparing pain before and after the intervention.