Evaluating Sensory Processing in Youth with and without Cerebral Palsy

Center for Magnetoencephalography

Researchers at UNMC are looking for youth with and without cerebral palsy to participate in a non-invasive brain imaging research study on how the brain processes sensory information.

Why are we doing this?

- To determine if there is a relationship between how the brain processes sensory information (e.g., tactile sensations on hands and feet) and an individual's report of daily musculoskeletal pain.
- Many youth with cerebral palsy report persistent musculoskeletal pain, but the underlying cause of this pain is not well understood.
- Our prior research has identified that youth with cerebral palsy process sensory information differently.
- In this study, we are evaluating if there is a connection between the atypical processing of sensations by the brain and the pain perceptions of youth with cerebral palsy.
- To study the brain, we will be using a series of brain imaging tests, all of which are non-invasive and harmless.

Youth who are eligible:

- Are between the ages of 12 and 18 years old
- Has no metal in his/her head that is not removable (e.g., braces on teeth, permanent retainer)
- Are able to complete a series of sensory tasks
- For Cerebral Palsy participants:
  - Cerebral Palsy diagnosis
- For Non-Cerebral Palsy Controls:
  - No known atypical neurodevelopment (e.g. autism, Down Syndrome, ADHD, etc.)

What will be required?

- Complete MEG and MRI scans
- Complete motor skills assessments
- Complete written pain survey

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

For more information, please contact

Pediatric Research Office Study Recruitment Line
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