

Supraspinal Processing of Sensory Aspects of Pain

Status: RECRUITING

Eligibility Criteria

Sex: ALL

Age: 10 years to 17 years old

Healthy Volunteers: This study is also accepting healthy volunteers

Inclusion Criteria:

- Patients will need a diagnosis of a chronic pain derived congruent with ICD-11 criteria related to headache (migraine, daily headache), abdominal (FAPD), localized MSK (single limb/joint, low back or chest pain), diffuse MSK (widespread MSK pain), or CRPS
- If on medications, they need to be on stable doses of prescribed pain and/or psychiatric medications for 4 weeks before the baseline study visit.
- Male or female, age 10 -17 (inclusive)
- English speaking, able to complete interviews and questionnaires in English

Exclusion Criteria:

- Weight/size incompatible with MRI scanner
- Orthodontic braces, metallic or electronic implants, or other metal objects in the body which obscure or interfere with the MRI, or pose a risk from heating, movement, or malfunction in the MRI environment
- Claustrophobia
- Youth who are pregnant
- Any comorbid rheumatic disease, diagnosis of epilepsy, other neurological diseases, or medical condition (e.g. diabetes, cancer, IBD)
- Present psychiatric disease as defined by DSM IV (e.g. psychosis, bipolar disorder, major depression, generalized anxiety disorder), alcohol or drug dependence, or documented developmental delays or impairments (e.g., autism, cerebral palsy, ADHD, or mental retardation) that, in the opinion of the investigator, would interfere with adherence to study requirements or safe participation in the study
- Skin conditions or past skin damage on the arms or legs in or near sites of sensory testing
- Outside the age range (9 years old or younger; 18 years or older) at the time of consent
- History of > 1 month opioid treatment.

Conditions & Interventions

Interventions:

OTHER: Multisensory Task, OTHER: Graphesthesia, OTHER: Divided attention

Conditions:

Migraine in Children, Complex Regional Pain Syndromes, Musculoskeletal Pain, Functional Abdominal Pain Syndrome, Fibromyalgia

Keywords:

chronic pain

More Information

Description:

The goal of this basic science study is to learn about the brain mechanisms of chronic pain across different chronic pain syndromes in pediatric patients. The main questions it aims to answer are: * Are there shared and distinct brain systems engaged by different forms of pediatric chronic pain? * What are predictors of recovery from chronic pain? * What brain systems are associated with the spread of pain? For this study participants will undergo: * Functional Magnetic Resonance Imaging (fMRI) * Quantitative Sensory Testing * Psychological Assessments

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Principal Investigator:

Principal Investigator ID:

Phase: NA

IRB Number:

System ID: NCT05814497

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