

# Cranial Electrotherapy Stimulation and Brain Imaging for Gulf War Syndrome

NCT07151248

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Status	RECRUITING
Phase	Not Applicable
Sponsor	Emory University
Enrollment	130 participants

## Key Eligibility Criteria

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### Inclusion (8)

- Subjects must be male and female age 40-80 years old
  - Meet criteria for GWVI based on the CDC and Kansas Criteria for GWVI.
  - CDC: 1 or more from at least 2 of the following categories for e 6 months): 1) fatigue 2) mood and cognition (symptoms of feeling depressed, difficulty in remembering or concentrating, feeling moody, feeling anxious, trouble in finding words, or difficulty in sleeping) 3) musculoskeletal (symptoms of joint pain, joint stiffness, or muscle pain
  - Kansas: 3 of 6 domains: 1) fatigue and sleep problems 2) pain symptoms 3) neurologic, cognitive, or mood symptoms 4) gastrointestinal symptoms 5) respiratory symptoms 6) skin symptoms chronic since 1990. Symptom reporting must be in the absence of diagnosed exclusionary conditions; only respondents who have at least 1 moderately severe symptom or 2 or more symptoms within a group were considered to have a high level of symptoms in the group.
  - Subjects must self-report consistent, daily pain (greater than or equal to 4 on the DVPRS) \>90 days (prior to enrollment)
- ... and 3 more (see full listing online)

### Exclusion (9)

- Subjects must not be currently pregnant since effects of fMRI and electrical current on the developing fetus are not well-known.
  - Subjects must not have a history of drug abuse or severe, uncontrolled psychiatric illness such as schizophrenia or major depressive disorder with suicidal ideation.
  - Subjects must not have psoriasis vulgaris or other skin conditions that may increase the risk of infection at the implantation site.
  - Subjects must not introduce new medications or treatments for symptoms during the study to prevent confounding results.
  - Subjects must not have severe anxiety, claustrophobia, or other conditions that may prevent their ability to lie at rest in an MRI scanner. This will be determined after discussion with the patient regarding their own perceived ability to lie at rest in an MRI scanner without the use of additional sedating medications.
- ... and 4 more (see full listing online)

## Locations (1 total)

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Emory Clinic, Atlanta, Georgia, United States