Identifying body awareness-related brain network changes during cognitive multisensory rehabilitation for reduced neuropathic pain in people with spinal cord injury

**Status:** Recruiting

**Eligibility Criteria**

**Sex:** All

**Age:** 18 Years to 70 Years old

This study is also accepting healthy volunteers

**Inclusion Criteria:**

SCI participants:
- SCI of ≥ 3months
- medically stable with paraplegia (ASIA grade A-C, who can self-transfer with some assistance)
- neuropathic pain (>3 on the numeric pain rating scale)

Able-bodied participants:
- sex and age matched
- healthy, able-bodied

**Exclusion Criteria:**

- MRI contra-indications (stabilizing hardware is typically MRI safe) including seizures, cognitive impairment, or other major medical complications

**Conditions & Interventions**

**Interventions:**
- Behavioral: Cognitive Multisensory Therapy
- Other: Usual Care
- Behavioral: Clinical Assessment
- Behavioral: Magnetic Resonance Imaging (MRI)
- Other: OPTIONAL: blood draw

**Conditions:**
- Spinal Cord Injuries
- Neuropathic Pain

**More Information**

**Description:** This mechanistic Phase II clinical trial will utilize a design with a standard parallel-arm RCT. Participants will be randomized into two groups. The Immediate Therapy Group will receive 6 weeks of CMR, 1-on-1, in-person, 3x/week, 45 min/sessions immediately, followed by 6 weeks of standard of care (no therapy) at home as a monitoring/observation period. And the Delayed Therapy Group will first complete the monitoring/observation period with 6 weeks of standard of care (no therapy) at home, followed by 6 weeks of CMR. The healthy group will not receive therapy. The baseline data obtained in the healthy control group will be compared with the baseline data and post-CMR data in both SCI groups.

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**Phase:** N/A

**IRB Number:** STUDY00008476

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