

Exoskeleton Training for Spinal Cord Injury Neuropathic Pain (ExS-CIP)

NCT06463418

Status	RECRUITING
Phase	Not Applicable
Sponsor	University College Dublin
Enrollment	40 participants

Key Eligibility Criteria

Inclusion (8)

- Individuals who are 18 years and over.
- Confirmed traumatic SCI (injury resulted from an external physical impact and not an acute or chronic disease process) of ≥ 6 months duration with complete or incomplete paraplegia or tetraplegia.
- Individuals with above confirmed traumatic SCI who have below-level NP (e 3 levels below neurological level and/or extending to at-level region) starting after the SCI and persisting for ≥ 3 continuous months, despite pharmacotherapy.
- NP will be confirmed based on a neurological examination, a score of e4 on the Douleur Neuropathique 4 (DN4) (48) and a comprehensive pain history supported by the use of the ISCIP Pain Classification. They endorse one or more of the following pain descriptors to assist in confirmation of below level NP "hot-burning', 'tingling', 'pricking', 'pins and needles', 'sharp', 'shooting', 'squeezing', 'painful cold' and 'electric shock-like'" (45).
- Moderate and severe NP as confirmed above will be described as pain e 3 and e 6 on the 0-10 Numerical Rating Scale (NRS) for NP (averaged over a week).

... and 3 more (see full listing online)

Exclusion (9)

- Non-traumatic SCI, cauda equina lesions or Guillain Barré diagnoses
- NP intensities of ≤ 3 (NRS) or nociceptive pain profiles only based on the ISCIP pain classification convention.
- Recent lower limb fracture
- Inadequate bone density (z score ≤ -2)
- Anthropometric measurements incompatible with the exoskeleton device (i.e. height ≥ 1.9 m, weight ≥ 100 kgs, significant lower limb spasticity)

... and 4 more (see full listing online)

Locations (1 total)

University College Dublin, Dublin, Ireland

<https://clinicaltrials.gov/study/NCT06463418>

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