

BCI-Assisted SCS-EXS for Gait Optimization

NCT06939660

Status	RECRUITING
Phase	Not Applicable
Sponsor	Xuanwu Hospital, Beijing
Enrollment	3 participants

Key Eligibility Criteria

Inclusion (8)

- Age 14-65 years, any gender.
- Clinical diagnosis of spinal cord injury (SCI) due to trauma, inflammation, tumor, vascular disease, or iatrogenic factors, confirmed by medical history, physical examination, and ancillary tests, resulting in lower limb motor dysfunction.
- SCI diagnosed e6 months prior, with e1 month of continuous conventional rehabilitation (e.g., physical therapy, acupuncture, hydrotherapy, e3 hours daily) without significant improvement in motor function in the past 2 months.
- ASIA Impairment Scale (AIS) grade A, B, or C based on the International Standards for Neurological Classification of Spinal Cord Injury (ISNCSCI).
- Good general health with a life expectancy e12 months.

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

Exclusion (20)

- Presence of diseases other than spinal cord injury (SCI) that affect lower limb motor function, including brain diseases (e.g., brain tumor, stroke), lower limb vascular diseases (e.g., lower limb vascular occlusion), peripheral nerve diseases, or lower limb bone diseases (e.g., osteoarthritis, joint contracture).
- Requires continuous medical interventions (e.g., tracheal intubation, nasogastric feeding) to maintain critical physiological functions (e.g., heartbeat, respiration, swallowing).
- Congenital or acquired structural abnormalities of the lower limb bones or muscles.
- Presence of surgical contraindications (e.g., anesthesia-related adverse reactions, coagulation risks, or surgeon's determination of unsuitability for surgery).
- Presence of active implantable devices except for SCS or BCI devices (e.g., pacemakers, defibrillators, drug infusion pumps, cochlear implants, sacral nerve stimulators).

... and 15 more (see full listing online)

Locations (1 total)

Xuanwu Hospital ,Capital Medical University, Beijing, Beijing Municipality, China

<https://clinicaltrials.gov/study/NCT06939660>

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