

Effectiveness of a Powered Exoskeleton Combined With FES for Patients With Chronic SCI: a RCT

NCT05187650

Status	RECRUITING
Phase	Not Applicable
Sponsor	Mario Widmer
Enrollment	34 participants

Key Eligibility Criteria

Inclusion (5)

- chronic, incomplete SCI (> 1 year, AIS B-D)
- traumatic or non-traumatic lesion
- capacity to stand up and perform a 10MWT with or without medical aids
- partially wheelchair dependent
- intact lower motoneuron on the segmental innervation level of M. gluteus maximus, Mm. ischiocrurales, M. tibialis anterior and M. quadriceps (to guarantee the stimulability with FES)

Exclusion (9)

- Exoskeleton device related contraindications: > 100 kg body weight; Body height: < 155 cm or > 190 cm; pelvic width: > 46 cm
- orthopedic limitations (acute fractures of the lower limb)
- contractures
- heterotrophic ossification
- spasticity (modified Ashworth Scale >3)
- ... and 4 more (see full listing online)

Locations (1 total)

Swiss Paraplegic Centre, Nottwil, Canton of Lucerne, Switzerland