Feasibility and Safety of a Combined Augmented Reality and Functional Electrical Stimulation System

NCT07299734

Status	RECRUITING
Phase	Early Phase 1
Sponsor	University Health Network, Toronto
Enrollment	7 participants

Key Eligibility Criteria

Inclusion (3)

- Chronic cervical SCI
- Any level or severity of cervical SCI, traumatic or non-traumatic
- Can carry out object manipulations but with visible impairment (i.e., 5-25 on the GRASSP Prehension Performance sub-score).

Exclusion (5)

- Any disease or injury other than the SCI that may be affecting grasping performance.
- Individuals with any self-reported FES contraindications (pacemakers, implantable defibrillator, implanted neurostimulation device, metallic implants in the stimulated areas, cardiac conditions, epilepsy, uncontrolled seizures, wounds or fractures on the target limb)
- Inability to understand the study procedures
- Muscles do not respond to FES to produce grasping movements
- Currently participating in another upper limb rehabilitation intervention study (regular physical and occupational therapy is permitted).

Locations (1 total)

Lyndhurst Centre, Toronto Rehabilitation Institute - University Health Network, Toronto, Ontario, Canada