

Robotic Gait Training to Improve Functional Outcomes after SCI

Status: Recruiting

Eligibility Criteria

Sex: Male or Female

Age Group: 18 years and over

This study is NOT accepting healthy volunteers

Inclusion Criteria:

- spinal cord injury level C7-T12 - medically stable, no acute issues that would prevent gaiting - motor complete (AIS A or B) spinal cord injury OR motor incomplete (AIS C or D) spinal cord injury who use a wheelchair for more than 50% of personal mobility - height between 155-191cm (5'1" to 6'2") - weight less than 113kg (248 pounds) - sufficient upper body strength to complete sit-to-sit transfers - women of childbearing age must agree to use contraception during study participation

Exclusion Criteria:

- women who are pregnant - symptomatic orthostatic hypotension - active Grade 2 or greater pressure ulcer that can be potentially worsened by use of an exoskeleton - lower extremity contractures that interfere with wearing an exoskeleton - unhealed lower extremity fracture - history of neurologic diseases (e.g. stroke, peripheral neuropathy, myopathy) - active treatment for epilepsy or thyroid disorders - women with osteoporosis at baseline by DXA scan

Conditions & Interventions

Conditions:

Brain & Nervous System

Keywords:

Clinics and Surgery Center (CSC), Spinal Cord Injury (SCI)

More Information

Description: We are researching the benefits of physical therapy guided exoskeleton gait training in people with a spinal cord injury. We want to describe the benefits to overall function and how the brain changes after gait training.

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IRB

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