

Additional file 1. Inclusion and exclusion criteria. List of the criteria used to assess the inclusion/exclusion of participants into the present study during the screening process.

Inclusion Criteria

- ✓ Age from 18 to 70 years old
- ✓ Traumatic and non-traumatic spinal cord injury.
- ✓ Currently in treatment as an inpatient or outpatient at the investigational site.
- ✓ SCI with Neurological Level of Injury (NLI) between C7-L5 (from AIS A to AIS D)
- ✓ Currently treated as an inpatient or outpatient in the investigational center.
- ✓ Ability to provide informed consent

Exclusion Criteria

- ✗ WISCI II >13 without the exoskeleton.
- ✗ 5 or more fragility fracture risk factors as stated by *Craven et al.**
- ✗ History of fragility fractures of lower limbs in the past 2 years.
- ✗ Deterioration > 3 points of the total International Standards for Neurological Classification of Spinal Cord Injury (ISNCSCI) motor score within the last 4 weeks.
- ✗ Spinal instability
- ✗ Modified Ashworth scale (MAS) of 4 in lower limbs
- ✗ Unable to tolerate 30 minutes standing without clinical symptoms of orthostatic hypotension.
- ✗ Psychological or cognitive issues that do not allow a participant to follow the study procedures.
- ✗ Any neurological condition other than SCI
- ✗ Medically unstable (Unstable cardiovascular system, hemodynamic instability, untreated hypertension (systolic blood pressure>140, diastolic blood pressure>90 mmHg), unresolved deep venous thrombosis, uncontrolled autonomic dysfunction)
- ✗ Severe comorbidities including any condition that a physician considers inappropriate to complete participation in the study.
- ✗ Ongoing skin issues (Grade I or higher on the European Pressure Ulcer Advisory Panel (EPUAP) scale on areas that will be in contact with the exoskeleton)
- ✗ Height, width, weight, or other anatomical constraints (such as leg length differences) incompatible with the device
- ✗ Range of Motion (ROM) restrictions that are incompatible with the ABLE Exoskeleton device
- ✗ Known pregnancy or breastfeeding

*Craven, B., Robertson, L., McGillivray, C. & Adachi, J. Detection and Treatment of Sublesional Osteoporosis Among Patients with Chronic Spinal Cord Injury: Proposed Paradigms. *Top Spinal Cord Inj Rehabil* 4, 1–22 (2009).