

## Data Dictionary

File Name	Description
<b>Evaluation of a Back-Support Exoskeleton_In Bed Tasks</b>	This file contains the data analyzed in the manuscript, including subject number, task, repetition, exoskeleton condition, muscle activity, and median and peak joint angles.

Header or Parts of Header Name in CSV (Excel File)	Description or Definition
<b>Subject</b>	Subject number; arbitrary number for each subject tested
<b>Task</b>	Task 1: A caregiver repositioned the patient from sitting on the bed to a supine position. The caregiver grasped the patient's shoulder and thigh.
	Task 2: A caregiver laterally repositioned the supine patient from the middle of the bed to the bedside near the caregiver. A caregiver grasped the draw sheet to reposition the patient.
	Task 3: A caregiver turned the supine patient toward the caregiver. The patient turned to face the caregiver. The caregiver grasped the patient's right shoulder and knee.
	Task 4: A caregiver turned the supine patient away from the caregiver. The caregiver grasped the patient's left shoulder and knee.
<b>Repetition</b>	Repetition number; 2 repetitions completed per task and condition
<b>Condition</b>	NE: no exoskeleton condition; subjects did not wear an exoskeleton while completing the task
	E: exoskeleton condition; subjects wore an exoskeleton while completing the task
<b>LES_50</b>	Median left erector spinae muscle activity (50 <sup>th</sup> percentile) in % maximal voluntary contraction
<b>LES_90</b>	Peak left erector spinae muscle activity (90 <sup>th</sup> percentile) in % maximal voluntary contraction
<b>RES_50</b>	Median right erector spinae muscle activity (50 <sup>th</sup> percentile) in % maximal voluntary contraction

<b>RES_90</b>	Peak right erector spinae muscle activity (90 <sup>th</sup> percentile) in % maximal voluntary contraction
<b>TrunkFlexion_50</b>	Median trunk flexion (+)/extension (-) angle (50 <sup>th</sup> percentile) in degrees
<b>TrunkFlexion_90</b>	Peak trunk flexion (+)/extension (-) angle (90 <sup>th</sup> percentile) in degrees
<b>LHipFlexion_50</b>	Median left hip flexion angle (50 <sup>th</sup> percentile) in degrees
<b>LHipFlexion_90</b>	Peak left hip flexion angle (90 <sup>th</sup> percentile) in degrees
<b>RHipFlexion_50</b>	Median right hip flexion angle (50 <sup>th</sup> percentile) in degrees
<b>RHipFlexion_90</b>	Peak right hip flexion angle (90 <sup>th</sup> percentile) in degrees
<b>Heart rate (bpm)</b>	Mean heart rate in beats per minute