Project Title: Improving Community Ambulation for Stroke Survivors using Powered Hip Exoskeletons with Adaptive Environmental Controllers

NCT Number: NCT03924752

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Statistical Analysis Plan

Means of the subject's self-selected walking speed for all different locomotion modes (level-ground, ramp ascent, ramp descent, stair ascent, and stair descent) for all assistance conditions (no exoskeleton and exoskeleton with assistance) across 10 subjects were computed. We performed a two-way repeated measures analysis of variance (locomotion mode and assistance type as independent variables) on the subject's walking speed by setting an α value to 0.05 (MATLAB 2021b, Mathworks, USA).