Supplementary Material

Evaluating Additional Aspects of Muscle Function with a Digital Handgrip Dynamometer and Accelerometer for Cognitive Functioning in Older Adults: A Pilot Study

Supplementary Table 1. Further Differences in Handgrip Strength Measurements by Cognitive Functioning Status.

Variables	Cognitively Intact (n=9)	Cognitive Impairment (n=4)	p
Maximal handgrip strength (kg)	22.7 (19.5-24.6)	23.0 (13.0-34.5)	0.53
Submaximal handgrip strength force control (CV)	21.5 (18.7-22.5)	22.4 (20.5-26.8)	0.30
Handgrip strength fatigue (fatigability index)	13.6 (11.4-19.8)	15.3 (12.3-17.9)	0.47
Maximal handgrip strength steadiness (VM)	1.2 (0.0-5.5)	4.8 (4.2-28.1)	0.16
Ulnar digits grip steadiness (VM)	6.8 (1.3-11.4)	18.5 (1.8-43.5)	0.29
Radial digits grip steadiness (VM)	3.3 (0.0-8.9)	2.9 (1.6-32.5)	0.30
Handgrip strength fatigue steadiness (VM)	0.3 (0.1-0.5)	0.5 (0.1-1.0)	0.47

Results are presented as median (quartile 1-quartile 3) where indicated. No VM was detected for submaximal handgrip strength force control steadiness. Cognitively Intact, Montreal Cognitive Assessment ≥26; Cognitive Impairment, Montreal Cognitive Assessment <26. CV, coefficient of variation; VM, vector magnitude.