

Additional File

Table 1. Test-retest reliability outcomes (ICC), Standard Error of Measurement (SEM) of SEP measurement for the four upper limb impairments (muscle strength in two directions) for specific groups.

	ICC2,1	SEM
All participants, N = 54		
MVTF [Nm]	0.90	4.1
MVTE [Nm]	0.90	3.9
Synergy [slope: 0/25% arm weight support]	0.78	0.6
Spasticity [Nm]	0.95	0.6
Viscoelasticity [slope: Nm/°]	0.97	0.008
All patients, N = 29		
MVTF [Nm]	0.84	4.6
MVTE [Nm]	0.90	3.9
Synergy [slope: °/25% arm weight support]	0.78	0.8
Spasticity [Nm]	0.94	0.7
Viscoelasticity [slope: Nm/°]	0.30*	0.04
Healthy controls, N = 25		
MVTF [Nm]	0.93	3.1
MVTE [Nm]	0.88	3.7
Synergy [slope: °/25% arm weight support]	Not assessable**	
Spasticity [Nm]	0.78	0.3
Viscoelasticity [slope: Nm/°]	0.76	0.002

CP: Cerebral palsy; MVTF: Maximum Voluntary Torque for Flexion; MVTE: Maximum Voluntary Torque for Extension; ICC2,1: Intraclass correlation coefficient; SEM: Standard Error of Measurement.

Very low ICC, due to very high SEM in patients (= 20 SEM in healthy controls)

**Not assessable due to many 0 scores in dataset of healthy controls