

Table S1. Two-way ANOVA results for the spatial planes ROM by evaluation and group (CP: n=23; CG: n=23) factors*.

Spatial plane	Factor			Pair-wise comparison		
		Mean (95%CI)	p-value		Difference between means (95%CI)	P-value
	Evaluation					
Flexion-extension	<i>CROM</i>	131.7 (124.8; 138.6)	<0.001	<i>CROM vs IMU 1st assessment 1st day</i>	-4.1 (-6.2; -2.1)	<0.001
	<i>IMU 1st assessment 1st day</i>	135.8 (128.5; 143.1)		<i>CROM vs IMU 2nd assessment 1st day</i>	-5.8 (-11.8; -0.2)	0.049
	<i>IMU 2nd assessment 1st day</i>	137.4 (129.8; 145.2)		<i>CROM vs IMU 2nd day</i>	-9.5 (-17.7; -1.3)	0.015
	<i>IMU 2nd day</i>	141.2 (132.8; 149.6)		<i>IMU 1st assessment 1st day vs IMU 2nd assessment 1st day</i>	-1.6 (-8.0; 4.7)	0.989
				<i>IMU 1st assessment 1st day vs IMU 2nd day</i>	-5.4 (-13.2; 2.3)	0.160
			<i>IMU 2nd assessment 1st day vs IMU 2nd day</i>	-3.8 (-10.9; 3.4)	0.920	
	Group					
	<i>CP</i>	135.5 (125.6; 145.3)	0.757			
<i>CG</i>	137.6 (127.6; 147.7)			2.2 (-11.9; 16.2)		
	Evaluation					
Rotational	<i>CROM</i>	145.7 (141.1; 150.3)	0.020	<i>CROM vs IMU 1st assessment 1st day</i>	-4.5 (-10.4; 1.3)	0.218
	<i>IMU 1st assessment 1st day</i>	150.3 (144.5; 156.0)		<i>CROM vs IMU 2nd assessment 1st day</i>	-3.7 (-10.3; 2.9)	0.757
	<i>IMU 2nd assessment 1st day</i>	149.4 (143.4; 155.4)		<i>CROM vs IMU 2nd day</i>	-8.9 (-17.5; -0.4)	0.036
	<i>IMU 2nd day</i>	154.7 (148.9; 160.4)		<i>IMU 1st assessment 1st day vs IMU 2nd assessment 1st day</i>	0.8 (-5.0; 6.7)	0.990
				<i>IMU 1st assessment 1st day vs IMU 2nd day</i>	-4.4 (-13.7; 4.9)	0.980
			<i>IMU 2nd assessment 1st day vs IMU 2nd day</i>	-5.2 (-13.1; 2.6)	0.436	
	Group					
	<i>CP</i>	151.5 (145.3; 157.9)	0.482			
<i>CG</i>	148.5 (142.2; 154.7)			-3.1 (5.8; -12.0)		
	Evaluation					
Side-bending	<i>CROM</i>	95.7 (89.8; 102.0)	0.001	<i>CROM vs IMU 1st assessment 1st day</i>	4.5 (1.1; 8.0)	0.004
	<i>IMU 1st assessment 1st day</i>	91.1 (84.4; 97.5)		<i>CROM vs IMU 2nd assessment 1st day</i>	5.7 (1.2; 12.2)	0.019
	<i>IMU 2nd assessment 1st day</i>	89.9 (82.8; 94.8)		<i>CROM vs IMU 2nd day</i>	2.4 (0.0; 4.9)	0.048
	<i>IMU 2nd day</i>	93.5 (87.3; 97.5)		<i>IMU 1st assessment 1st day vs IMU 2nd assessment 1st day</i>	1.2 (-2.4; 6.8)	0.987
				<i>IMU 1st assessment 1st day vs IMU 2nd day</i>	-2.5 (-8.9; 3.4)	0.377
			<i>IMU 2nd assessment 1st day vs IMU 2nd day</i>	-3.4 (-8.7; 0.1)	0.061	
	Group					
	<i>CP</i>	93,3 (85,1; 101,4)	0.725			
<i>CG</i>	91.3 (83.1; 99.4)			-2.0 (-13.6; 9.5)		

* ANOVA evaluation-by-group interaction was not statistically significant (p>0.05).

Abbreviations: CROM, Cervical range of motion device; IMU 1st assessment 1st day, Inertial Measurement Unit first assessment on the first day; IMU 2nd assessment 1st day, Inertial Measurement Unit second assessment on the first day; IMU 2nd day, Inertial Measurement Unit assessment on the second day; CG, Control group; CP, Cerebral palsy group.

Values in parenthesis indicate the 95% confidence interval.

Data are expressed in degrees.