

**Supplementary Table 1. Summary of muscle strength in lower limbs and intra-rater reliability**

Muscle strength (Nm)	PD		HC		% ratio (PD/HC)	p-value
	mean ± SD	ICC <sub>1,2</sub> (95% CI)	mean ± SD	ICC <sub>1,2</sub> (95% CI)		
Hip flexor	8.1 ± 6.7	<b>0.98</b> (0.96–0.99)	15.4 ± 8.6	<b>0.98</b> (0.95–0.99)	52.6	< 0.01**
Hip extensor	15.5 ± 7.8	<b>0.95</b> (0.89–0.97)	22.9 ± 11.6	<b>0.98</b> (0.95–0.99)	67.7	0.07
Hip abductor	8.8 ± 6.3	<b>0.95</b> (0.91–0.98)	16.8 ± 7.2	<b>0.96</b> (0.91–0.98)	52.4	< 0.01**
Hip adductor	7.5 ± 5.6	<b>0.99</b> (0.97–0.99)	14.3 ± 7.2	<b>0.98</b> (0.96–0.99)	52.4	< 0.01**
Knee flexor	8.6 ± 7.2	<b>0.97</b> (0.94–0.99)	13.2 ± 5.9	<b>0.98</b> (0.95–0.99)	65.2	< 0.05*
Knee extensor	19.8 ± 16.1	<b>0.98</b> (0.94–0.99)	28.9 ± 15.8	<b>0.98</b> (0.95–0.99)	68.5	0.16
Ankle plantar-flexion	4.5 ± 2.5	<b>0.98</b> (0.96–0.99)	7.2 ± 5.5	<b>0.99</b> (0.97–0.99)	62.5	0.15
Ankle dorsi-flexion	2.9 ± 1.8	<b>0.97</b> (0.92–0.98)	6.2 ± 2.9	<b>0.99</b> (0.97–0.99)	46.8	< 0.01**

Significant results are shown in bold font. \* p < 0.05, \*\* p < 0.01

SD: standard deviation; ICC: intraclass correlation coefficient; CI: confidence interval ; % ratio: muscle strength ratios between PD/HC groups

p-value represent between-group differences between PD patients and HC in each muscle group.