## Supplementary Tables

OFF Medication (Normalized)					ON Medication (Normalized)					
	Dominant	Non-Dominant	р		Dominant	Non-Dominant	p			
Forward	1.01 ± 0.23 (0.93, 1.08)	0.98 ± 0.25 (0.90, 1.06)	0.03	Forward	1.04 ± 0.22 (0.97, 1.11)	1.01 ± 0.24 (0.94, 1.09)	0.02			
Backward	0.88 ± 0.22 (0.81, 0.95)	0.87 ± 0.23 (0.79, 0.94)	0.23	Backward	0.93 ± 0.22 (0.86, 1.01)	0.91 ± 0.23 (0.84, 0.98)	0.04			
Lateral	0.95 ± 0.26 (0.87, 1.03)	0.97 ± 0.25 (0.89, 1.05)	0.13	Lateral	0.98 ± 0.27 (0.89, 1.07)	1.03 ± 0.27 (0.94, 1.11)	< 0.001			
Data prese	nted as mean ± SD (95% Conf	idence Interval); Main effect (	of	Data prese	nted as mean ± SD (95% Confi	idence Interval); Main effect o	of			
ANOVA: F(	3,37)=4.22; p=0.012		ANOVA: F(3,37)=9.56; p<0.001							
OFF Medication (Raw)					ON Medication (Raw)					
	Dominant	Non-Dominant	р		Dominant	Non-Dominant	р			
Famous	82.23 + 19.86 (75.88, 88.58)	80.32 ± 21.54 (73.43, 87.21)	0.03	Forward	84.96 ± 19.23 (78.81, 91.11)	82.87 ± 20.95 (76.17, 89.57)	0.015			
Forward	02.20 = 25.00 (75.00) 00.00)									
	72.27 ± 19.70 (65.97, 78.57)	, , ,	0.18	Backward	76.46 ± 18.96 (70.39, 82.52)	74.31 ± 19.56 (68.05, 80.56)	0.03			
	72.27 ± 19.70 (65.97, 78.57)	, , ,			76.46 ± 18.96 (70.39, 82.52) 80.14 ± 22.97 (72.79, 87.49)	, , ,				
Backward Lateral	72.27 ± 19.70 (65.97, 78.57)	70.82 ± 20.07 (64.40, 77.24) 79.09 ± 21.14 (72.32, 85.85)	0.10	Lateral	, , ,	83.85 ± 22.88 (76.53, 91.17)	<0.001			

Forward			Backward			Lateral			
	Dominant	Non-Dominant		Dominant	Non-Dominant		Dominant	Non-Dominar	
MDS-UPDRS III^	-0.37*	-0.39*	MDS-UPDRS III^	-0.52*	-0.61*	MDS-UPDRS III^	-0.33*	-0.41*	
Mini-BESTest <sup>^</sup>	0.70*	0.72*	Mini-BESTest <sup>^</sup>	0.75*	0.84*	Mini-BESTest <sup>^</sup>	0.69*	0.75*	
Mini-BESTest - APA^	0.55*	0.53*	Mini-BESTest - APA^	0.58*	0.68*	Mini-BESTest - APA^	0.47*	0.55*	
Mini-BESTest - PR <sup>^</sup>	0.56*	0.56*	Mini-BESTest - PR <sup>^</sup>	0.64*	0.55*	Mini-BESTest - PR <sup>^</sup>	0.61*	0.60*	
Mini-BESTest - SO <sup>^</sup>	0.43*	0.43*	Mini-BESTest - SO <sup>^</sup>	0.39*	0.45*	Mini-BESTest - SO <sup>^</sup>	0.38*	0.38*	
Mini-BESTest - SG <sup>^</sup>	0.55*	0.52*	Mini-BESTest - SG <sup>^</sup>	0.57*	0.72*	Mini-BESTest - SG <sup>^</sup>	0.55*	0.62*	
TUG	-0.53*	-0.59*	TUG	-0.60*	-0.62*	TUG	-0.62*	-0.68*	
6MWT	0.74*	0.76*	6MWT	0.73*	0.71*	6MWT	0.80*	0.78*	
ABC <sup>^</sup>	0.40*	0.41*	ABC <sup>^</sup>	0.49*	0.48*	ABC <sup>^</sup>	0.39*	0.47*	
Gait Velocity	0.50*	0.47*	Gait Velocity	0.44*	0.47*	Gait Velocity	0.55*	0.59*	

Forward			Backward			Lateral		
	Dominant	Non-Dominant		Dominant	Non-Dominant		Dominant	Non-Dominant
MDS-UPDRS III^	-0.32*	-0.30*	MDS-UPDRS III^	-0.55*	-0.57*	MDS-UPDRS III^	-0.23	-0.30
Mini-BESTest <sup>^</sup>	0.69*	0.67*	Mini-BESTest <sup>^</sup>	0.64*	0.71*	Mini-BESTest <sup>^</sup>	0.60*	0.63*
Mini-BESTest - APA^	0.40*	0.33*	Mini-BESTest - APA^	0.50*	0.56*	Mini-BESTest - APA <sup>^</sup>	0.23	0.33*
Mini-BESTest - PR <sup>^</sup>	0.55*	0.54*	Mini-BESTest - PR <sup>^</sup>	0.48*	0.52*	Mini-BESTest - PR <sup>^</sup>	0.44*	0.40*
Mini-BESTest - SO <sup>^</sup>	0.38*	0.39*	Mini-BESTest - SO <sup>^</sup>	0.32*	0.30	Mini-BESTest - SO <sup>^</sup>	0.42*	0.39*
Mini-BESTest - SG <sup>^</sup>	0.65*	0.65*	Mini-BESTest - SG <sup>^</sup>	0.67*	0.73*	Mini-BESTest - SG <sup>^</sup>	0.66*	0.73*
TUG	-0.64*	-0.62*	TUG	-0.66*	-0.67*	TUG	-0.60*	-0.68*
6MWT	0.76*	0.74*	6MWT	0.74*	0.74*	6MWT	0.75*	0.75*
ABC <sup>^</sup>	0.28	0.32*	ABC <sup>^</sup>	0.38*	0.41*	ABC <sup>^</sup>	0.31	0.30
Gait Velocity	0.56*	0.54*	Gait Velocity	0.61*	0.62*	Gait Velocity	0.56*	0.62*

<sup>^ -</sup> indicates Spearman correlation. \*Significant at p<0.05. APA - Anticipatory Postural Adjustment; PR - Postural Responses; SO - Sensory Orientation; SG - Stability in Gait