

Supplementary Table 2. Spatiotemporal parameters of the three gait tasks in patients with *de novo* PD

	<i>De novo</i> patients with PD			F	p	FG vs. BG	FG vs. DG	BG vs. DG
	FG	BG	DG			p	p	p
Walking speed, cm/s	107.72±14.48	66.76±18.80	86.73±14.90	38.452	<0.001*	<0.001*	<0.001*	<0.001*
Cadence, steps/min	114.35±6.17	111.31±13.54	103.53±12.94	5.762	0.005*	0.196	<0.001*	0.022*
Stride time, s	1.05±0.05	1.09±0.13	1.17±0.16	5.861	0.004*	0.066	0.001*	0.045*
Stride length, cm	113.35±14.19	72.56±18.88	101.15±14.42	41.207	<0.001*	<0.001*	<0.001*	<0.001*
Swing phase, %	37.74±1.38	34.78±3.00	36.20±1.79	11.187	<0.001*	<0.001*	<0.001*	0.014*
Double-support phase, %	24.45±2.87	30.70±5.01	28.15±3.58	15.433	<0.001*	<0.001*	<0.001*	0.004*
Step width, cm	7.53±2.05	15.50±3.43	8.02±2.16	69.820	<0.001*	<0.001*	0.012*	<0.001*
CV, %								
Stride time	3.11±0.99	6.18±2.61	5.72±3.05	11.490	<0.001*	<0.001*	<0.001*	0.516
Stride length	3.88±1.68	10.45±3.00	6.06±2.15	49.187	<0.001*	<0.001*	<0.001*	<0.001*
Asymmetry of gait								
Gait asymmetry index	3.36±2.59	5.22±4.31	4.38±3.62	0.565	0.671	0.875	0.051	0.231
Gait CV asymmetry	24.48±24.93	17.99±15.22	22.36±16.92	0.066	0.939	0.765	0.931	0.786

Data are mean±SD values. ANOVA was used for comparisons of the three gait tasks, and the paired t-test was used for comparisons of two gait tasks in PD patients.

*p<0.05.

BG: backward gait, CV: coefficient of variation, DG: dual-task gait, FG: forward gait, PD: Parkinson's disease.