

Supplementary Table 1. Spatiotemporal parameters of three gait tasks in healthy controls

	Healthy controls			F	p	FG vs. BG	FG vs. DG	BG vs. DG
	FG	BG	DG			p	p	p
Walking speed, cm/s	116.50±9.92	83.50±13.54	99.43±12.54	50.389	<0.001*	<0.001*	<0.001*	<0.001*
Cadence, steps/min	111.93±9.08	110.60±11.19	103.17±10.12	5.825	0.004*	0.502	<0.001*	0.001*
Stride time, s	1.08±0.09	1.09±0.12	1.17±0.13	5.551	0.006*	0.354	<0.001*	0.004*
Stride length, cm	125.62±8.75	90.87±11.09	114.81±10.51	82.636	<0.001*	<0.001*	<0.001*	<0.001*
Swing phase, %	38.67±0.87	35.79±1.81	37.52±1.66	25.083	<0.001*	<0.001*	<0.001*	<0.001*
Double-support phase, %	22.97±1.69	28.07±3.19	25.34±2.85	25.641	<0.001*	<0.001*	<0.001*	<0.001*
Step width, cm	8.24±2.44	16.17±4.22	8.56±2.99	49.934	<0.001*	<0.001*	0.190	<0.001*
CV, %								
Stride time	2.86±0.95	4.71±1.82	5.29±2.97	9.968	<0.001*	<0.001*	<0.001*	0.272
Stride length	3.40±1.05	7.32±2.74	4.92±1.79	26.774	<0.001*	<0.001*	0.001*	<0.001*
Asymmetry of gait								
Gait asymmetry index	2.37±1.60	3.26±3.30	2.81±2.03	1.889	0.158	0.054	0.061	0.657
Gait CV asymmetry	21.01±13.40	17.76±17.60	25.82±16.52	3.902	0.024*	0.017*	0.330	0.067

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 controls.

*p<0.05.

BG: backward gait, CV: coefficient of variation, DG: dual-task gait, FG: forward gait.