

eTable 1.
All Metrics Used in the Study^a

	Metric	Unit	PD-OFF Group		PD-ON Group		Control Group		t Test		
			\bar{X}	SD	\bar{X}	SD	\bar{X}	SD	PD-OFF Group vs PD-ON Group	PD-OFF Group vs Control Group	PD-ON Group vs Control Group
Body Sway	S_Jerk	m ² /s ⁵	0.359	0.890	0.222	0.273	0.115	0.097	0.086	0.011	0.003
	S_MeanDistance	m/s ²	0.063	0.026	0.075	0.037	0.054	0.019	0.001	0.074	0.001
	S_RMS	m/s ²	0.075	0.031	0.088	0.042	0.064	0.023	0.001	0.094	0.001
	S_PathLength	m/s ²	8.93	9.05	7.61	4.35	5.38	1.58	0.097	0.001	0.000
	S_AccelerationRange	m/s ²	0.397	0.159	0.457	0.201	0.349	0.134	0.006	0.156	0.004
	S_SwayArea	m ² /s ⁴	0.060	0.058	0.088	0.108	0.044	0.034	0.012	0.100	0.002
	S_MeanFrequency	Hz	0.74	0.50	0.57	0.30	0.56	0.13	0.000	0.003	0.684
	S_LowFrequencyPowerML	m ² /s ⁴ Hz	160.9	93.5	248.1	97.0	241.9	79.5	0.000	0.000	0.759
	S_Frequency95thPercentile	Hz	1.99	0.64	1.88	0.63	1.96	0.34	0.084	0.714	0.450
	S_CentroidalFrequency	Hz	0.78	0.26	0.74	0.24	0.76	0.12	0.142	0.746	0.511
	S_CoMAccelerationRange	m/s ²	0.041	0.016	0.047	0.020	0.036	0.014	0.006	0.156	0.004
	S_CoM_RMS	m/s ²	0.0076	0.0032	0.0090	0.0043	0.0066	0.0023	0.001	0.094	0.001
	A_StepLength	Degree	33.8	7.1	34.0	8.9	40.1	7.8	0.819	0.002	0.003
	A_PeakAccelerationML	m/s ²	0.033	0.016	0.038	0.020	0.041	0.018	0.004	0.066	0.484
Gait	G_Cadence	Steps/min	109.1	9.3	110.9	9.3	118.6	11.0	0.002	0.001	0.006
	G_RoMShank	Degree	74.0	6.8	76.4	6.8	82.2	3.1	0.000	0.000	0.000
	G_StrideVelocity	cm/s	71.1	9.7	75.1	9.6	87.2	10.6	0.000	0.000	0.000
	G_PeakLegSpeed	°/s	363.5	47.1	382.5	49.2	424.6	42.5	0.000	0.000	0.000
	G_PeakArmSpeed	°/s	112.0	35.6	139.3	61.2	161.6	45.9	0.000	0.000	0.068
	G_ArmSpeedAsymmetry	%	35.6	13.8	35.0	9.9	32.5	5.1	0.600	0.093	0.098
	G_PeakTrunkSpeedHorizontal	°/s	19.2	6.9	22.6	8.8	26.4	9.5	0.000	0.003	0.109
	G_PeakTrunkSpeedSagittal	°/s	22.4	6.8	24.9	7.8	29.9	9.8	0.000	0.003	0.038
	G_RoMTrunkHorizontal	Degree	4.2	1.5	4.9	1.9	5.0	2.1	0.000	0.113	0.730
	G_AccelerationRangeTrunkLateral	g	0.47	0.11	0.53	0.14	0.58	0.16	0.000	0.004	0.119
	G_AccelerationRangeTrunkVertical	g	0.48	0.11	0.54	0.15	0.54	0.13	0.000	0.074	0.927
	G_AccelerationRangeFrontal	g	0.70	0.18	0.78	0.23	0.88	0.18	0.000	0.000	0.040
	G_RoMTrunkFrontal	°/s	4.2	1.5	4.9	1.9	5.0	2.1	0.000	0.113	0.730
	G_ArmSymbolicSymmetryIndex	%	35.6	13.8	35.0	9.9	32.5	5.1	0.600	0.093	0.098
Turn	T_TurningDuration	s	2.52	0.53	2.42	0.54	1.81	0.31	0.007	0.000	0.000
	T_StepTimeBeforeTurn	s	0.57	0.05	0.56	0.05	0.54	0.05	0.024	0.009	0.046

^a Gait metrics start with G_, turning metrics start with T_, anticipatory postural adjustments (APA) metrics start with A_, and postural sway metrics start with S_. RMS=root mean square, ML=mediolateral, CoM=center of mass, RoM=range of motion.

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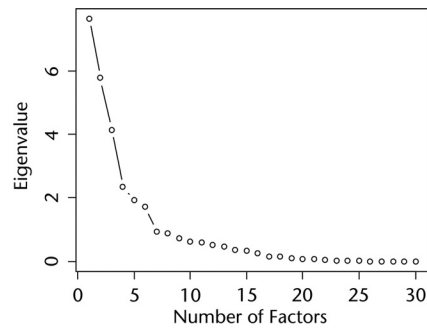
eTable 2.

Difference in Mobility Factors Between the PD-OFF Group (Normalized to 0+/1) and the PD-ON and Control Groups^a

Mobility (M) Factors		PD-OFF Group		PD-ON Group		Control Group		<i>p</i> ^b		
		\bar{X}	SD	\bar{X}	SD	\bar{X}	SD	PD-ON Group ~ PD-OFF Group	PD-OFF Group ~ Control Group	PD-ON Group ~ Control Group
M1	Sway area	0	1	0.601	1.713	0.267	0.773	.0003	.237	.024
M2	Sway frequency	0	1	0.454	1.393	0.539	1.254	<.0001	<.001	.798
M3	Gait speed	0	1	0.223	0.991	1.050	1.236	.0001	<.001	.001
M4	Gait trunk	0	1	0.395	0.995	1.412	0.610	<.0001	<.001	<.001
M5	Gait timing	0	1	-0.060	0.708	-0.204	0.376	.490	.360	.367
M6	Arm asymmetry	0	1	-0.187	0.675	-0.220	0.383	.0486	.322	.831

^a PD-ON group=participants with PD in the on-levodopa state, PD-OFF group=participants with PD in the off-levodopa state.

^b Significant *P* values from *t* tests between groups, with Bonferroni correction, are shown in bold type.



eFigure.

Scree plot of eigenvalues used to determine how many factors to use in factor analysis. The first few factors have the highest values. The curve initially shows a rapid decrease, but after a few factors, the curve reaches a plateau.