

**Supplementary Table 1.** Gait characteristics of the all participants by footwear condition

	Shoe on (n=74)	Barefoot (n=110)	p value*
<b>Spatiotemporal parameters</b>			
Velocity (cm/sec)	91.72±18.59	91.26±19.11	0.7832
Cadence (steps/min)	101.65±10.97	107.13±9.61	0.0001
<b>Spatial parameters</b>			
Step length (cm)	54.00±8.81	50.95±8.87	0.0257
Stride length (cm)	108.62±17.66	102.46±17.78	0.0245
Base width (cm)	10.09±3.29	9.34±2.94	0.0600
<b>Temporal parameters</b>			
Step time (sec)	0.60±0.08	0.56±0.05	0.0001
Swing time (sec)	0.40±0.04	0.41±0.03	0.0995
Stance time (sec)	0.79±0.13	0.71±0.08	<0.0001
Single support time (sec)	0.40±0.04	0.41±0.03	0.0992
Double support time (sec)	0.39±0.11	0.30±0.06	0.0001
<b>Phase parameters</b>			
Swing time (%)	33.50±2.39	36.33±1.92	<0.0001
Stance time (%)	66.50±2.39	63.68±1.92	<0.0001
Single support time (%)	33.51±2.39	36.33±1.91	<0.0001
Double support time (%)	32.18±5.12	26.67±3.98	<0.0001
<b>Variability</b>			
CV step length (%)	18.13±3.73	14.86±2.88	<0.0001
CV stride length (%)	5.43±2.01	5.06±1.88	0.0637
CV base width (%)	24.57±12.13	24.35±12.18	0.9012
CV swing time (%)	6.84±3.29	5.52±2.21	0.0001
CV stance time (%)	6.35±2.32	6.34±2.13	0.8084
CV double support time (%)	8.42±2.98	9.09±2.45	0.1506

Values are presented as mean±standard deviation.

\*p values for testing the difference between the means in individuals walked with shoe and barefoot, individuals walking with shoes and barefoot, adjusted for age and height.

CV, coefficient of variance.