

**S1 Table. Sagittal plane knee kinematics and kinetics during level walking.**

Level walking						
Parameter	CG	TKA	UKA	p-value	Effect size	Power
Flexion angle [°]	19.1 ± 4.7	15.1 ± 5.5	14.0 ± 3.4	0.93 <sup>CG-TKA</sup>	0.21	0.18
				0.02 <sup>*CG-UKA</sup>		
				0.84 <sup>TKA-UKA</sup>		
∅ Flexion velocity [°/s]	126.7 ± 27.0	88.7 ± 24.5	95.7 ± 21.4	0.002 <sup>*CG-TKA</sup>	0.34	0.41
				0.009 <sup>*CG-UKA</sup>		
				0.774 <sup>*TKA-UKA</sup>		
RoM [°]	17.4 ± 3.5	13.4 ± 3.0	14.5 ± 2.1	0.05 <sup>*CG-TKA</sup>	0.27	0.27
				0.046 <sup>*CG-UKA</sup>		
				0.636 <sup>TKA-UKA</sup>		
Flexion moment [Nm/(kg·m)]	0.42 ± 0.1	0.31 ± 0.1	0.39 ± 0.1	0.03 <sup>*CG-TKA</sup>	0.2	0.16
				0.8 <sup>CG-UKA</sup>		
				0.11 <sup>TKA-UKA</sup>		
Flexion mom. impulse [Nms/(kg·m)]	0.05 ± 0.02	0.04 ± 0.01	0.05 ± 0.02	0.160	0.09	0.07

\*Indicates significant difference between corresponding groups. Peak values are presented for the first 50% of stance phase. Mean (∅) flexion velocity is calculated from heel strike until maximum knee flexion for the first 50% of stance phase.