

Supplementary Table 1. Contact times and ground reaction force (GRF) values

Measure	Athletes with BKA			Non-amputee athletes			Difference	
	Mean (SD)	Min	Max	Mean (SD)	Min	Max	BKA to nonAMP [%]	p
Contact time [ms]	124 (14)	113	140	122 (9)	111	140	1.9	.983
Stance average GRF [N/kg]								
Anterior (+) / Posterior (-)	-5.05 (1.25)	-6.10	-3.67	-9.07 (2.69)	-13.50	-6.85	-44.3	.017
Medial (+) / Lateral (-)	0.15 (0.39)	-0.29	0.46	-1.66 (1.45)	-3.79	0.06	-108.9	.033
Vertical (+)	37.07 (6.15)	30.05	41.50	33.55 (6.42)	24.89	42.28	10.5	.517
Peak GRF [N/kg]								
propulsive	4.79 (1.57)	3.21	6.35	4.80 (1.02)	3.20	6.18	-0.1	1.0
braking	15.17 (3.68)	11.14	18.54	31.79 (13.68)	19.49	59.72	-52.3	.017
vertical	55.02 (10.03)	43.58	62.30	79.20 (23.64)	51.95	120.13	-30.5	.183
medial	1.06 (0.20)	0.85	1.25	1.89 (1.15)	0.27	3.48	-43.9	.383
lateral	0.79 (0.43)	0.44	1.27	10.48 (4.65)	7.25	18.57	-92.4	.017
Impulse [Ns/kg]								
propulsive	0.13 (0.03)	0.11	0.16	0.12 (0.03)	0.06	0.15	13.1	.667
braking	0.75 (0.12)	0.62	0.85	1.22 (0.27)	0.99	1.70	-38.3	.017
vertical	4.55 (0.30)	4.21	4.76	4.08 (0.75)	2.98	5.11	11.5	.383
medial	0.05 (0.02)	0.02	0.07	0.03 (0.04)	<0.01	0.11	31.7	.383
lateral	0.02 (0.03)	0.01	0.06	0.23 (0.13)	0.1	0.44	-89.6	.017

Mean values with standard deviations (SD), minimum and maximum values of contact times, peak ground reaction forces (GRFs), GRF impulses and stance average GRFs for the athletes with a below the knee amputation (BKA) and the non-amputee athletes (nonAMP). The difference between mean values from non-amputee athletes versus athletes with BKA are presented as percentages. Significant differences are indicated by bold p-values.