

Table 3. Summary of multiple regression analysis of regression score from PCA with predictor variables (only significant results are shown).

Dependent variable	Predictor variables $\beta$ (Std Error), $p$ value							Model R <sup>2</sup>	Model $p$ value
	Body fat <sub>linear</sub>	Body fat <sub>quad</sub>	BMI ZScore <sub>linear</sub>	BMI ZScore <sub>quad</sub>	Height <sub>linear</sub>	Step distance <sub>linear</sub>	Stance phase duration <sub>linear</sub>		
Shank-Calcaneus: sagittal plane									
PC1	-.04 (.02), $p$ .009	-	-	-	-	-	-.50 (.10), $p$ .000	.32	.000
PC2	-.03 (.02), $p$ .046	-	-	-	-	-	-	.07	.046
PC3	-.04 (.02), $p$ .022	-	-	-	-	-	-	.10	.022
Shank-Calcaneus: transverse plane									
PC1	.21 (.09), $p$ .043	.01 (.00), $p$ .026	-	-	-	-	-	.11	.035
PC2	.03 (.01), $p$ .048	-	-	-	-	-	-	.07	.048
Calcaneus-Midfoot: sagittal plane									
PC1	.04 (.01), $p$ .007	-	-	-	-	-	-	.13	.007
Calcaneus-Midfoot: frontal plane									
PC1	.23 (.10), $p$ .026	.01 (.00), $p$ 0.17	.38 (.13), $p$ .007	.20 (.06), $p$ .002	.06 (.02), $p$ .003	.01 (.00), $p$ .041	-	.33	.003