

Appendix 1. Multivariable Logistic Model of Group Differences

Parameter	Group*	Estimate	Standard Error	Wald Chi-Square	P value
Intercept	Minimalist	50.4026	37.3658	1.8195	0.177
	Socketed	59.0465	33.9140	3.0313	0.082
Ground Contact Time	Minimalist	-0.1213	0.0522	5.4003	0.020
	Socketed	-0.1119	0.0494	5.1262	0.023
Foot Strike – FFS	Minimalist	1.4201	1.2889	1.2139	0.270
	Socketed	1.0725	1.2861	0.6954	0.404
Foot Strike – MFS	Minimalist	-0.2522	1.1358	0.0493	0.824
	Socketed	-0.8524	1.1622	0.5379	0.463
Knee Angle	Minimalist	-0.2210	0.1645	1.8065	0.179
	Socketed	-0.1725	0.1398	1.5217	0.217
Stride Cadence	Minimalist	0.1038	0.0775	1.7901	0.181
	Socketed	-0.00869	0.0660	0.0173	0.895
*Traditional shoes as reference group					
Overall analysis of effects					
Effect	DF	Wald Chi-Square	P value		
Ground Contact Time	2	5.8012	0.05		
Foot Strike	4	3.3470	0.50		
Knee Angle	2	2.1103	0.35		
Stride Cadence	2	3.2753	0.19		