





















TABLE AI  
ONE-WAY ANOVA SIGNIFICANCE RESULTS: PEAK VERTEBRAL FORCE

Independent variable	Subset	Dependent variable = peak vertebral force							
		C1	C5	C7	T1	T4	T8	T12	L4
		(p-value)							
Mass	component tests	0.001	0.002	0.001	0.001			n/a	
Mass	T1 constraint	0.020	0.049	0.033	0.031			n/a	
Velocity	component tests	0.301	0.764	0.650	0.583	0.006	0.006	0.1162	0.080
Velocity	T1 constraint	0.021	0.019	0.003	0.003			n/a	
Velocity	full-body tests	<.0001	0.068	0.011	0.002	0.000	0.004	0.097	0.464
Constraint	component tests	<.0001	<.0001	<.0001	<.0001	0.029	0.037	0.005	n/a
Position	full-body tests	0.951	0.003	0.022	0.058	0.177	0.023	0.001	0.000
Type	all tests	0.120	0.110	0.082	0.032	0.000	0.020	0.807	0.838
		p≥0.05		0.01≤p<0.05			p<0.01		

TABLE AII  
ONE-WAY ANOVA SIGNIFICANCE RESULTS: TIME OF PEAK VERTEBRAL FORCE

Independent variable	Subset	Dependent variable = time of peak vertebral force							
		C1	C5	C7	T1	T4	T8	T12	L4
		(p-value)							
Mass	component tests	0.138	0.174	0.134	0.092			n/a	
Mass	T1 constraint	0.005	0.314	0.003	0.001			n/a	
Velocity	component tests	0.572	0.813	0.992	0.887	0.876	0.921	0.971	n/a
Velocity	T1 constraint	0.499	0.012	0.645	.0679			n/a	
Velocity	full-body tests	0.081	0.005	0.011	0.000	0.730	0.704	0.586	0.269
Constraint	component tests	0.004	<.0001	<.0001	<.0001	<.0001	<.0001	<.0001	n/a
Position	full-body tests	0.555	0.950	0.123	0.3593	<.0001	<.0001	0.001	0.745
Type	all tests	0.002	<.0001	0.001	0.001	0.095	0.061	0.006	0.446
		p≥0.05		0.01≤p<0.05			p<0.01		