

**Supplementary Table 2. Multivariate Results.**

factors	Degrees of Freedom	Partial Sum of Square	Mean Squares	F	P
Group	1.000	155.761	155.761	1.097	0.296
sex	1.000	233.065	233.065	1.641	0.201
site	2.000	6.120	3.060	0.022	0.979
Previous concussion and symptom duration	1.000	201.750	201.750	1.420	0.234
age	3.000	1303.624	434.541	3.060	0.028
X.Nonlinear	2.000	881.909	440.954	3.105	0.046
Migraines diagnosis	1.000	406.206	406.206	2.860	0.092
ED: answer question slowly	1.000	88.479	88.479	0.623	0.430
ED: headache	1.000	298.708	298.708	2.103	0.148
ED: sensitivity to noise	1.000	298.967	298.967	2.105	0.148
ED: fatigue	1.000	65.167	65.167	0.459	0.499
ED: BESS Tandem Score	2.000	840.749	420.374	2.960	0.053
X.Nonlinear.1	1.000	176.648	176.648	1.244	0.265
TOTAL.NONLINEAR	3.000	1108.695	369.565	2.602	0.052
TOTAL	15.000	5700.505	380.034	2.676	0.001
ERROR	440.000	62492.796	142.029	NA	NA

**Note:** ED=Emergency Department, BESS=Balance Error Scoring System.