

**Supplementary Table 2: Estimated values of the model coefficients for the model of continuation accuracy (relative error).**

<b>Effect</b>	<b>Estimate</b>	<b>Lower CI</b>	<b>Upper CI</b>
Intercept (250 ms, OHC, No Gap)	0.98460	0.95902	1.01018
ns(Tap Time, df = 3) 1	-0.00498	-0.02210	0.01214
ns(Tap Time, df = 3) 2	0.01341	-0.02786	0.05404
ns(Tap Time, df = 3) 3	0.01230	-0.01631	0.04091
Group (PD-C)	-0.02995	-0.06617	0.00627
Group (PD-FOG)	0.01575	-0.02535	0.05685
Gap Presence (Gap)	0.03962	0.02051	0.05873
ISI (500 ms)	0.02382	0.00560	0.04204
ISI (750 ms)	0.00965	-0.00827	0.02757
ns(Tap Time, df = 3) 1 x Group (PD-C)	-0.00180	-0.02627	0.02267
ns(Tap Time, df = 3) 2 x Group (PD-C)	0.03336	-0.02535	0.09207
ns(Tap Time, df = 3) 3 x Group (PD-C)	0.01048	-0.03047	0.05141
ns(Tap Time, df = 3) 1 x Group (PD-FOG)	0.00866	-0.02128	0.03860
ns(Tap Time, df = 3) 2 x Group (PD-FOG)	-0.04389	-0.11281	0.02503
ns(Tap Time, df = 3) 3 x Group (PD-FOG)	-0.00047	-0.05086	0.04992
ns(Tap Time, df = 3) 1 x Gap Presence (Gap)	-0.02078	-0.03990	-0.00166
ns(Tap Time, df = 3) 2 x Gap Presence (Gap)	-0.03967	-0.08542	0.00608
ns(Tap Time, df = 3) 3 x Gap Presence (Gap)	-0.01647	-0.03588	0.00294
Group (PD-C) x Gap Presence (Gap)	0.01476	-0.01241	0.04193
Group (PD-FOG) x Gap Presence (Gap)	-0.04471	-0.07629	-0.01313
ns(Tap Time, df = 3) 1 x ISI (500 ms)	-0.00893	-0.02998	0.01211
ns(Tap Time, df = 3) 2 x ISI (500 ms)	-0.03631	-0.08364	0.01102
ns(Tap Time, df = 3) 3 x ISI (500 ms)	-0.02540	-0.05506	0.00426
ns(Tap Time, df = 3) 1 x ISI (750 ms)	-0.02970	-0.05169	-0.00771
ns(Tap Time, df = 3) 2 x ISI (750 ms)	-0.07838	-0.12737	-0.02939
ns(Tap Time, df = 3) 3 x ISI (750 ms)	0.00511	-0.03132	0.04154
Group (PD-C) x ISI (500 ms)	0.03878	0.01236	0.06520
Group (PD-FOG) x ISI (500 ms)	-0.04769	-0.07683	-0.01855
Group (PD-C) x ISI (750 ms)	0.03254	0.00689	0.05819
Group (PD-FOG) x ISI (750 ms)	-0.06467	-0.09391	-0.03543
Gap Presence (Gap) x ISI (500 ms)	-0.03944	-0.06546	-0.01342
Gap Presence (Gap) x ISI (750 ms)	-0.08308	-0.10898	-0.05718
ns(Tap Time, df = 3) 1 x Group (PD-C) x Gap Presence (Gap)	0.00363	-0.02403	0.03123
ns(Tap Time, df = 3) 2 x Group (PD-C) x Gap Presence (Gap)	-0.03453	-0.09984	0.03078
ns(Tap Time, df = 3) 3 x Group (PD-C) x Gap Presence (Gap)	0.00703	-0.02171	0.03571
ns(Tap Time, df = 3) 1 x Group (PD-FOG) x Gap Presence (Gap)	0.00545	-0.02982	0.04072
ns(Tap Time, df = 3) 2 x Group (PD-FOG) x Gap Presence (Gap)	0.07461	-0.00352	0.15274
ns(Tap Time, df = 3) 3 x Group (PD-FOG) x Gap Presence (Gap)	0.04477	0.00427	0.08527
ns(Tap Time, df = 3) 1 x Group (PD-C) x ISI (500 ms)	-0.01043	-0.04122	0.02036

ns(Tap Time, df = 3) 2 x Group (PD-C) x ISI (500 ms)	-0.09414	-0.16324	-0.0250
ns(Tap Time, df = 3) 3 x Group (PD-C) x ISI (500 ms)	-0.01534	-0.05960	0.0289
ns(Tap Time, df = 3) 1 x Group (PD-FOG) x ISI (500 ms)	-0.03081	-0.06658	0.0049
ns(Tap Time, df = 3) 2 x Group (PD-FOG) x ISI (500 ms)	0.02826	-0.04900	0.1055
ns(Tap Time, df = 3) 3 x Group (PD-FOG) x ISI (500 ms)	0.01354	-0.03801	0.0651
ns(Tap Time, df = 3) 1 x Group (PD-C) x ISI (750 ms)	-0.04976	-0.08115	-0.0183
ns(Tap Time, df = 3) 2 x Group (PD-C) x ISI (750 ms)	-0.08205	-0.15300	-0.0111
ns(Tap Time, df = 3) 3 x Group (PD-C) x ISI (750 ms)	-0.04646	-0.10060	0.0076
ns(Tap Time, df = 3) 1 x Group (PD-FOG) x ISI (750 ms)	-0.03978	-0.07810	-0.0014
ns(Tap Time, df = 3) 2 x Group (PD-FOG) x ISI (750 ms)	0.01575	-0.06640	0.0978
ns(Tap Time, df = 3) 3 x Group (PD-FOG) x ISI (750 ms)	-0.06833	-0.13251	-0.0041
ns(Tap Time, df = 3) 1 x Gap Presence (Gap) x ISI (500 ms)	0.01630	-0.01487	0.0474
ns(Tap Time, df = 3) 2 x Gap Presence (Gap) x ISI (500 ms)	0.08421	0.01334	0.1550
ns(Tap Time, df = 3) 3 x Gap Presence (Gap) x ISI (500 ms)	0.05304	0.00234	0.1037
ns(Tap Time, df = 3) 1 x Gap Presence (Gap) x ISI (750 ms)	0.02715	-0.00567	0.0599
ns(Tap Time, df = 3) 2 x Gap Presence (Gap) x ISI (750 ms)	0.13741	0.06169	0.2131
ns(Tap Time, df = 3) 3 x Gap Presence (Gap) x ISI (750 ms)	0.07155	0.00751	0.1355
Group (PD-C) x Gap Presence (Gap) x ISI (500 ms)	-0.02638	-0.06402	0.0112
Group (PD-FOG) x Gap Presence (Gap) x ISI (500 ms)	0.02110	-0.02035	0.0625
Group (PD-C) x Gap Presence (Gap) x ISI (750 ms)	-0.00472	-0.04164	0.0321
Group (PD-FOG) x Gap Presence (Gap) x ISI (750 ms)	0.07168	0.02918	0.1141
ns(Tap Time, df = 3) 1 x Group (PD-C) x Gap Presence (Gap) x ISI (500 ms)	0.00597	-0.03888	0.0508
ns(Tap Time, df = 3) 2 x Group (PD-C) x Gap Presence (Gap) x ISI (500 ms)	0.08433	-0.01791	0.1865
ns(Tap Time, df = 3) 3 x Group (PD-C) x Gap Presence (Gap) x ISI (500 ms)	-0.01617	-0.08866	0.0563
ns(Tap Time, df = 3) 1 x Group (PD-FOG) x Gap Presence (Gap) x ISI (500 ms)	-0.01874	-0.07095	0.0334
ns(Tap Time, df = 3) 2 x Group (PD-FOG) x Gap Presence (Gap) x ISI (500 ms)	-0.07622	-0.18994	0.0375
ns(Tap Time, df = 3) 3 x Group (PD-FOG) x Gap Presence (Gap) x ISI (500 ms)	-0.03398	-0.11670	0.0487
ns(Tap Time, df = 3) 1 x Group (PD-C) x Gap Presence (Gap) x ISI (750 ms)	0.03127	-0.01577	0.0783
ns(Tap Time, df = 3) 2 x Group (PD-C) x Gap Presence (Gap) x ISI (750 ms)	0.01438	-0.09459	0.1233
ns(Tap Time, df = 3) 3 x Group (PD-C) x Gap Presence (Gap) x ISI (750 ms)	-0.01717	-0.11091	0.0765
ns(Tap Time, df = 3) 1 x Group (PD-FOG) x Gap Presence (Gap) x ISI (750 ms)	0.02731	-0.02889	0.0835
ns(Tap Time, df = 3) 2 x Group (PD-FOG) x Gap Presence (Gap) x ISI (750 ms)	-0.16696	-0.29131	-0.0426
ns(Tap Time, df = 3) 3 x Group (PD-FOG) x Gap Presence (Gap) x ISI (750 ms)	-0.10133	-0.20571	0.0030

CI, confidence interval; ns, natural spline, with degrees of freedom and degree indicated.