

## Appendix A. Full output from model comparisons

**Table 1. Model output for sustained attention**

<b>Fixed effect</b>	<b>Coefficient</b>	<b>T-value</b>	<b>P-value</b>
Session	-0.8149	-1.33	0.1841
Age (mean centered and scaled)	0.4929	1.44	0.1517
Gender	-0.5296	-0.79	0.4277
Composite	0.1902	0.54	0.5870
Gaelic level	-0.3659	-1.07	0.2847
Session x Gaelic level	-0.2473	-0.42	0.6752
Session x Gender	-0.9751	-0.77	0.4400
Session x Age	0.5060	0.84	0.4002
Session x Composite	-0.2217	-0.37	0.7116
Gender x Age	0.7354	1.09	0.2762
Gender x Composite	0.5943	0.91	0.3653
Age x Composite	-0.8309	-2.43	0.0165
Gender x Gaelic level	-1.5392	-2.20	0.02941
Age x Gaelic level	0.6561	1.82	0.07026
Composite x Gaelic level	0.2985	0.91	0.3627

Notes: Effects whose p-values survive Bonferroni corrections are shaded.

**Table 2. Model output for inhibition**

<b>Fixed effect</b>	<b>Coefficient</b>	<b>T-value</b>	<b>P-value</b>
Session	5.4094	4.21	5.217e-05
Age (mean centered and scaled)	-2.5618	-1.47	0.1448
Gender	-4.8034	-1.41	0.1604
Composite	2.4283	1.36	0.1763
Gaelic level	-1.0131	-0.58	0.5613
Session x Gaelic level	0.8417	0.68	0.4981
Session x Gender	3.3094	1.25	0.2139
Session x Age	0.6055	0.48	0.6319
Session x Composite	-0.4409	-0.35	0.7266
Gender x Age	-1.0193	-0.30	0.7670
Gender x Composite	5.0885	1.52	0.1305
Age x Composite	2.6971	1.54	0.1245
Gender x Gaelic level	2.9541	0.83	0.4086
Age x Gaelic level	0.0327	0.02	0.9858
Composite x Gaelic level	0.8819	0.53	0.5981

Notes: Effects whose p-values survive Bonferroni corrections are shaded.

**Table 3. Model output for switching**

<b>Fixed effect</b>	<b>Coefficient</b>	<b>T-value</b>	<b>P-value</b>
Session	16.50596	7.578	1.307e-11
Age (mean centered and scaled)	-9.31065	-3.276	0.00139
Gender	3.65576	0.660	0.5096
Composite	4.13888	1.424	0.1565
Gaelic level	1.83584	0.648	0.5174
Session x Gaelic level	-5.93590	-2.823	0.005586
Session x Gender	-3.23272	-0.719	0.4726
Session x Age	-1.89928	-0.887	0.3758
Session x Composite	-3.89066	-1.821	0.07083
Gender x Age	1.41155	0.252	0.8008
Gender x Composite	2.85119	0.524	0.6005
Age x Composite	-1.95353	-0.688	0.4919
Gender x Gaelic level	0.13044	0.022	0.9821
Age x Gaelic level	-0.09366	-0.031	0.9750
Composite x Gaelic level	-0.27246	-0.100	0.9202

Notes: Effects whose p-values survive Bonferroni corrections are shaded.