

Supplementary Table 2. Comparison of cortical thickness according to impulsivity level in male participants

Cortical regions	High impulsivity group (N=12)		Low impulsivity group (N=45)		F _(1,52)	p-value
	Mean	SD	Mean	SD		
Left hemisphere						
Frontomarginal gyrus	2.293	0.098	2.341	0.189	0.926	0.340
Inferior occipital gyrus	2.498	0.237	2.551	0.200	0.825	0.368
Paracentral lobule	2.428	0.142	2.452	0.180	0.073	0.788
Subcentral gyrus	2.660	0.211	2.716	0.166	0.630	0.431
Transverse frontopolar gyrus	2.622	0.223	2.691	0.209	1.195	0.279
Anterior cingulate gyrus	2.775	0.149	2.779	0.169	0.028	0.867
Anterior mid-cingulate gyrus	2.654	0.179	2.734	0.166	1.520	0.223
Posterior mid-cingulate gyrus	2.544	0.253	2.577	0.205	0.225	0.637
Dorsal posterior cingulate gyrus	2.684	0.412	2.775	0.431	0.511	0.478
Ventral posterior cingulate gyrus	2.372	0.353	2.510	0.264	2.517	0.119
Cuneus	1.874	0.372	1.854	0.412	0.120	0.730
Pars opercularis	2.719	0.201	2.814	0.151	2.467	0.122
Pars orbitalis	2.696	0.341	2.816	0.196	1.719	0.196
Pars triangularis	2.686	0.186	2.729	0.179	0.179	0.674
Middle frontal gyrus	2.724	0.093	2.748	0.153	0.298	0.588
Superior frontal gyrus	3.038	0.192	3.055	0.230	0.005	0.945
Long insular gyrus	2.994	0.181	3.033	0.273	0.107	0.745
Short insular gyrus	3.234	0.479	3.384	0.500	0.891	0.350
Middle occipital gyrus	2.577	0.245	2.585	0.170	0.015	0.903
Superior occipital gyrus	2.153	0.280	2.161	0.206	0.218	0.643
Lateral occipito-temporal gyrus	2.697	0.432	2.783	0.266	0.501	0.482
Lingual gyrus	1.954	0.211	1.923	0.251	0.235	0.630
Parahippocampal gyrus	2.887	0.278	3.004	0.228	2.292	0.136
Orbital gyrus	2.668	0.116	2.696	0.187	0.042	0.839
Angular gyrus	2.665	0.164	2.681	0.172	0.055	0.815
Supramarginal gyrus	2.675	0.299	2.743	0.256	0.485	0.489
Superior parietal lobule	2.462	0.232	2.452	0.135	0.069	0.793
Postcentral gyrus	2.200	0.127	2.262	0.189	0.633	0.430
Precentral gyrus	2.851	0.193	2.865	0.174	0.063	0.803
Precuneus	2.510	0.208	2.526	0.156	0.001	0.971
Straight gyrus	2.538	0.283	2.592	0.369	0.225	0.638
Subcallosal gyrus	2.476	0.323	2.525	0.468	0.018	0.893
Anterior transverse temporal gyrus	2.345	0.365	2.363	0.408	0.009	0.925
Lateral superior temporal gyrus	2.999	0.251	3.061	0.282	0.365	0.549
Planum polare	3.223	0.371	3.346	0.308	1.534	0.221
Planum temporale	2.596	0.198	2.660	0.213	0.696	0.408
Inferior temporal gyrus	2.779	0.302	2.880	0.269	1.312	0.257
Middle temporal gyrus	2.994	0.384	3.003	0.277	0.002	0.969
Right hemisphere						
Frontomarginal gyrus	2.386	0.233	2.397	0.161	0.186	0.668
Inferior occipital gyrus	2.672	0.259	2.679	0.198	0.120	0.730
Paracentral lobule	2.444	0.196	2.446	0.166	0.001	0.979
Subcentral gyrus	2.669	0.172	2.753	0.181	1.509	0.225
Transverse frontopolar gyrus	2.653	0.144	2.669	0.186	0.068	0.796
Anterior cingulate gyrus	2.715	0.123	2.766	0.141	1.273	0.264
Anterior mid-cingulate gyrus	2.835	0.159	2.814	0.125	0.168	0.684
Posterior mid-cingulate gyrus	2.670	0.097	2.621	0.206	0.535	0.468
Dorsal posterior cingulate gyrus	2.748	0.394	2.811	0.409	0.343	0.561
Ventral posterior cingulate gyrus	2.490	0.381	2.582	0.304	0.651	0.423
Cuneus	1.891	0.359	1.870	0.345	0.192	0.663
Pars opercularis	2.785	0.176	2.832	0.168	0.508	0.479
Pars orbitalis	2.819	0.217	2.813	0.214	0.040	0.843
Pars triangularis	2.720	0.140	2.737	0.165	0.033	0.856
Middle frontal gyrus	2.767	0.206	2.803	0.184	0.099	0.755
Superior frontal gyrus	3.071	0.193	3.048	0.219	0.327	0.570
Long insular gyrus	3.209	0.334	3.092	0.286	1.840	0.181
Short insular gyrus	3.153	0.513	3.246	0.446	0.608	0.439
Middle occipital gyrus	2.611	0.227	2.623	0.180	0.004	0.949
Superior occipital gyrus	2.176	0.219	2.180	0.181	0.056	0.814
Lateral occipito-temporal gyrus	2.701	0.383	2.768	0.210	0.583	0.449
Lingual gyrus	2.017	0.228	1.986	0.247	0.338	0.563
Parahippocampal gyrus	3.058	0.401	3.099	0.245	0.389	0.535
Orbital gyrus	2.687	0.155	2.761	0.177	1.092	0.301
Angular gyrus	2.664	0.180	2.682	0.153	0.070	0.792
Supramarginal gyrus	2.661	0.307	2.723	0.269	0.515	0.476
Superior parietal lobule	2.404	0.208	2.426	0.161	0.018	0.892
Postcentral gyrus	2.185	0.159	2.230	0.197	0.170	0.682
Precentral gyrus	2.842	0.234	2.830	0.158	0.065	0.800
Precuneus	2.510	0.182	2.563	0.186	0.677	0.415
Straight gyrus	2.544	0.272	2.648	0.283	1.488	0.228
Subcallosal gyrus	2.566	0.590	2.637	0.511	0.058	0.811
Anterior transverse temporal gyrus	2.414	0.327	2.450	0.376	0.017	0.897
Lateral superior temporal gyrus	2.999	0.229	3.039	0.286	0.107	0.745
Planum polare	3.197	0.388	3.139	0.288	0.361	0.551
Planum temporale	2.674	0.182	2.659	0.205	0.134	0.716
Inferior temporal gyrus	2.871	0.333	2.925	0.245	0.340	0.562
Middle temporal gyrus	2.960	0.273	2.999	0.266	0.154	0.697

One-way ANCOVA, including age, education level, and total intracranial volume as covariates, was performed. Significant group differences after Bonferroni correction are presented in bold. Bonferroni correction was applied for multiple comparisons: $p < 0.05/76 = 0.000658$. SD: standard deviation