

**Supplementary Table 3.** Comparison of cortical thickness according to impulsivity level in younger participants

Cortical regions	High impulsivity group (N=15)		Low impulsivity group (N=41)		F <sub>(1,51)</sub>	p-value
	Mean	SD	Mean	SD		
<b>Left hemisphere</b>						
Frontomarginal gyrus	2.348	0.159	2.340	0.179	0.167	0.684
Inferior occipital gyrus	2.481	0.112	2.536	0.173	1.324	0.255
Paracentral lobule	2.397	0.207	2.431	0.182	0.001	0.975
Subcentral gyrus	2.752	0.235	2.766	0.173	0.024	0.876
Transverse frontopolar gyrus	2.621	0.209	2.666	0.243	0.185	0.669
Anterior cingulate gyrus	2.677	0.159	2.788	0.162	5.499	0.023
Anterior mid-cingulate gyrus	2.716	0.141	2.763	0.160	0.770	0.384
Posterior mid-cingulate gyrus	2.511	0.281	2.609	0.217	2.461	0.123
Dorsal posterior cingulate gyrus	2.516	0.616	2.729	0.519	2.015	0.162
Ventral posterior cingulate gyrus	2.510	0.325	2.613	0.286	1.246	0.270
Cuneus	1.996	0.381	1.901	0.430	1.017	0.318
Pars opercularis	2.665	0.272	2.874	0.168	10.510	0.002
Pars orbitalis	2.754	0.315	2.823	0.214	0.421	0.519
Pars triangularis	2.753	0.185	2.772	0.201	0.092	0.762
Middle frontal gyrus	2.830	0.261	2.817	0.183	0.007	0.932
Superior frontal gyrus	3.092	0.314	3.125	0.288	0.022	0.882
Long insular gyrus	2.821	0.356	3.018	0.291	3.531	0.066
Short insular gyrus	3.016	0.730	3.337	0.618	2.568	0.115
Middle occipital gyrus	2.534	0.209	2.601	0.136	2.128	0.151
Superior occipital gyrus	2.005	0.218	2.057	0.191	0.581	0.450
Lateral occipito-temporal gyrus	2.667	0.414	2.801	0.208	1.776	0.189
Lingual gyrus	2.097	0.319	1.982	0.238	1.928	0.171
Parahippocampal gyrus	2.706	0.244	2.943	0.222	9.496	0.003
Orbital gyrus	2.659	0.215	2.745	0.169	1.722	0.195
Angular gyrus	2.550	0.212	2.688	0.191	4.231	0.045
Supramarginal gyrus	2.539	0.393	2.735	0.312	2.957	0.092
Superior parietal lobule	2.460	0.240	2.467	0.139	0.044	0.835
Postcentral gyrus	2.233	0.197	2.259	0.182	0.006	0.939
Precentral gyrus	2.753	0.246	2.823	0.240	0.530	0.470
Precuneus	2.510	0.188	2.537	0.153	0.046	0.831
Straight gyrus	2.470	0.384	2.675	0.317	4.895	0.031
Subcallosal gyrus	2.529	0.306	2.528	0.449	0.038	0.845
Anterior transverse temporal gyrus	2.635	0.464	2.385	0.466	4.567	0.037
Lateral superior temporal gyrus	2.859	0.305	3.023	0.311	2.032	0.160
Planum polare	3.166	0.443	3.377	0.310	5.138	0.028
Planum temporale	2.618	0.206	2.723	0.224	1.152	0.288
Inferior temporal gyrus	2.655	0.331	2.880	0.310	6.870	0.012
Middle temporal gyrus	2.869	0.389	3.061	0.277	4.558	0.038
<b>Right hemisphere</b>						
Frontomarginal gyrus	2.318	0.196	2.374	0.189	1.308	0.258
Inferior occipital gyrus	2.539	0.225	2.676	0.193	5.028	0.029
Paracentral lobule	2.383	0.210	2.426	0.240	0.025	0.875
Subcentral gyrus	2.675	0.158	2.803	0.177	5.866	0.019
Transverse frontopolar gyrus	2.642	0.158	2.671	0.189	0.079	0.780
Anterior cingulate gyrus	2.707	0.182	2.797	0.153	2.860	0.097
Anterior mid-cingulate gyrus	2.754	0.174	2.836	0.129	3.223	0.079
Posterior mid-cingulate gyrus	2.629	0.157	2.628	0.231	0.001	0.976
Dorsal posterior cingulate gyrus	2.538	0.608	2.784	0.508	2.509	0.119
Ventral posterior cingulate gyrus	2.583	0.374	2.732	0.287	2.849	0.098
Cuneus	2.061	0.425	1.932	0.370	1.578	0.215
Pars opercularis	2.755	0.207	2.876	0.195	3.192	0.080
Pars orbitalis	2.719	0.231	2.851	0.233	3.788	0.057
Pars triangularis	2.723	0.149	2.797	0.178	1.691	0.199
Middle frontal gyrus	2.884	0.291	2.875	0.230	0.050	0.824
Superior frontal gyrus	3.115	0.302	3.121	0.251	0.027	0.869
Long insular gyrus	2.946	0.438	3.120	0.374	1.607	0.211
Short insular gyrus	2.828	0.648	3.184	0.523	3.823	0.056
Middle occipital gyrus	2.570	0.207	2.636	0.145	0.868	0.356
Superior occipital gyrus	2.071	0.214	2.145	0.163	1.448	0.234
Lateral occipito-temporal gyrus	2.737	0.403	2.800	0.172	0.723	0.399
Lingual gyrus	2.175	0.320	2.030	0.259	3.058	0.086
Parahippocampal gyrus	2.769	0.311	3.003	0.302	4.383	0.041
Orbital gyrus	2.653	0.236	2.763	0.199	1.894	0.175
Angular gyrus	2.553	0.234	2.672	0.167	2.826	0.099
Supramarginal gyrus	2.464	0.398	2.697	0.334	4.171	0.046
Superior parietal lobule	2.397	0.229	2.459	0.127	0.587	0.447
Postcentral gyrus	2.187	0.188	2.215	0.193	0.006	0.936
Precentral gyrus	2.701	0.261	2.826	0.184	3.029	0.088
Precuneus	2.557	0.221	2.587	0.209	0.000	0.991
Straight gyrus	2.478	0.401	2.663	0.316	3.497	0.067
Subcallosal gyrus	2.553	0.491	2.653	0.539	0.558	0.459
Anterior transverse temporal gyrus	2.531	0.491	2.484	0.439	0.416	0.522
Lateral superior temporal gyrus	2.832	0.407	3.025	0.331	2.685	0.107
Planum polare	3.016	0.408	3.158	0.284	2.018	0.162
Planum temporale	2.645	0.212	2.644	0.238	0.384	0.538
Inferior temporal gyrus	2.710	0.344	2.868	0.294	3.133	0.083
Middle temporal gyrus	2.818	0.350	3.007	0.288	3.713	0.060

One-way ANCOVA, including age, sex, 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