

**Supplementary Table 1.** MR-Egger intercept test and Cochran Q statistics

Exposure	Outcome	nSNP	MR-Egger			MR-Egger intercept test			Cochran's Q statistic		
			$\beta$	Std error	p	Intercept	Std error	p	Q	Q_df	p
Left caudal middle frontal surface area	CigDay	15	0.056	0.032	0.080	0.000	0.003	0.990	10.7754	13	0.630
CigDay	Left caudal middle frontal surface area	82	-0.172	0.123	0.164	0.006	0.004	0.111	74.3371	80	0.658
Left caudal anterior cingulate surface area	AgeSmk	42	0.005	0.021	0.816	0.000	0.002	0.989	40.7294	40	0.438
AgeSmk	Left caudal anterior cingulate surface area	35	-0.481	0.266	0.071	0.012	0.007	0.089	19.8038	33	0.966
Left cuneus surface area	AgeSmk	28	0.016	0.070	0.576	-0.001	0.003	0.827	27.8202	26	0.367
AgeSmk	Left cuneus surface area	44	0.232	0.586	0.198	-0.007	0.006	0.207	34.9526	42	0.771
Left inferior parietal surface area	AgeSmk	28	0.025	0.073	0.309	-0.003	0.002	0.239	18.7992	26	0.845
AgeSmk	Left inferior parietal surface area	35	0.176	0.716	0.524	-0.005	0.008	0.469	30.0500	33	0.615
Left rostral anterior cingulate surface area	SmkInit	37	-0.081	0.023	0.127	0.007	0.005	0.136	55.0351	35	0.017
SmkInit	Left rostral anterior cingulate surface area	127	0.274	0.571	0.070	-0.004	0.002	0.080	142.8697	125	0.131
Right precentral surface area	AgeSmk	42	-0.005	0.043	0.841	0.001	0.002	0.680	48.4726	40	0.168
AgeSmk	Right precentral surface area	35	0.080	0.605	0.765	-0.003	0.007	0.728	37.5818	33	0.267
Left entorhinal thickness	SmkCes	18	-0.074	0.081	0.351	0.008	0.009	0.386	29.7728	16	0.019
SmkCes	Left entorhinal thickness	45	0.344	0.669	0.038	-0.017	0.009	0.053	57.9410	43	0.064
Right caudal anterior cingulate thickness	AgeSmk	21	0.049	0.127	0.218	-0.002	0.004	0.665	30.5875	19	0.045
AgeSmk	Right caudal anterior cingulate thickness	35	0.058	0.713	0.862	-0.006	0.009	0.493	23.4035	33	0.892
Right rostral anterior cingulate thickness	SmkInit	22	-0.110	0.000	0.050	0.009	0.006	0.111	11.0250	20	0.946
SmkInit	Right rostral anterior cingulate thickness	110	-0.254	0.174	0.245	0.005	0.003	0.117	123.6586	108	0.144
Right superior frontal thickness	SmkInit	22	-0.060	0.040	0.240	0.008	0.005	0.082	13.0030	20	0.877
SmkInit	Right superior frontal thickness	110	-0.220	0.145	0.238	0.001	0.003	0.595	79.5595	108	0.981

AgeSmk, age of initiation of regular smoking; SmkInit, smoking initiation; SmkCes, smoking cessation; CigDay, cigarettes per day; SNP, single nucleotide polymorphism; MR, Mendelian randomization