

Table S8. Mendelian randomization results

			IVW							MR-PRESSO				MR-RAP			
Exposure	Outcome	#SNPs	BETA	95% CI LB	95% CI UB	P-Value	Q	Q P-Value	Mean F	BETA	95% CI LB	95% CI UB	P-Value	BETA	95% CI LB	95% CI UB	P-Value
MDD	PAC	159	0.699	0.099	1.299	0.022	202.888	0.009	43.79	0.590	0.016	1.165	0.046	0.720	0.180	1.260	0.009
MDD	HPS	159	-0.018	-0.027	-0.008	0.000	181.242	0.099	43.79	-0.018	-0.027	-0.008	0.000	-0.018	-0.027	-0.009	0.000
MDD	BRAIN	159	0.089	0.033	0.145	0.002	209.904	0.004	43.79	0.089	0.033	0.145	0.002	0.092	0.042	0.142	0.000
PAC	MDD	8	-0.002	-0.021	0.017	0.807	27.261	0.000	43.52	-0.007	-0.018	0.003	0.236	-0.003	-0.012	0.007	0.600
HPS	MDD	7	0.268	-0.667	1.203	0.574	12.868	0.045	40.67	0.268	-0.667	1.203	0.595	0.280	-0.368	0.929	0.397
BRAIN	MDD	18	-0.001	-0.115	0.114	0.993	57.105	0.000	54.40	-0.065	-0.156	0.025	0.177	-0.001	-0.063	0.062	0.986

			Weighted-Median					MR-Egger							
Exposure	Outcome	#SNPs	BETA	95% CI LB	95% CI UB	P-Value	BETA	95% CI LB	95% CI UB	BETA P-Value	I-square	Intercept	95% CI LB	95% CI UB	P-Value
MDD	PAC	159	0.306	-0.487	1.099	0.449	-0.483	-3.219	2.253	0.729	0.000	0.029	-0.037	0.095	0.385
MDD	HPS	159	-0.013	-0.026	0.000	0.048	0.003	-0.040	0.046	0.892	0.000	-0.001	-0.002	0.001	0.334
MDD	BRAIN	159	0.081	0.008	0.154	0.029	-0.005	-0.260	0.251	0.970	0.000	0.002	-0.004	0.009	0.459
PAC	MDD	8	-0.011	-0.026	0.005	0.177	0.067	-0.008	0.141	0.078	0.000	-0.046	-0.094	0.002	0.062
HPS	MDD	7	0.598	-0.342	1.539	0.212	0.752	-1.331	2.836	0.479	0.000	-0.006	-0.029	0.017	0.604
BRAIN	MDD	18	0.006	-0.097	0.110	0.907	-0.068	-0.404	0.268	0.691	0.779	0.004	-0.016	0.025	0.674