

**Supplementary Table 1. Mendelian randomization sensitivity analysis**

Exposure	Outcome	Method	Q	Q_P	I2	Egger_intercept	P_pleiotropy
ADHD2019	T2D	IVW	6.68	0.67	-0.347	NA	NA
ADHD2019	T2D	WM	NA	NA	NA	NA	NA
ADHD2019	T2D	MR Egger	6.11	0.635	-0.473	-0.008	0.472
ADHD2022	T2D	IVW	1.16E+02	1.22E-13	0.784	NA	NA
ADHD2022	T2D	WM	NA	NA	NA	NA	NA
ADHD2022	T2D	MR Egger	1.11E+02	3.64E-13	0.775	0.011	0.324
T2D	ADHD2019	IVW	2.95E+02	3.42E-06	0.345	NA	NA
T2D	ADHD2019	WM	NA	NA	NA	NA	NA
T2D	ADHD2019	MR Egger	2.94E+02	2.96E-06	0.344	0.001	0.594
T2D	ADHD2022	IVW	3.94E+02	7.01E-16	0.51	NA	NA
T2D	ADHD2022	WM	NA	NA	NA	NA	NA
T2D	ADHD2022	MR Egger	3.92E+02	8.74E-16	0.507	0.001	0.295

ADHD: attention-deficit/hyperactivity disorder; T2D: type 2 diabetes; IVW: inverse variance weighted; MR: Mendelian randomization; WM: weighted median; Q: statistics of heterogeneity analysis; Q\_P: P value of heterogeneity analysis; I2: I2 statistics of heterogeneity; Egger\_intercept: intercept of MR-Egger intercept analysis; P\_pleiotropy: P value of MR-Egger intercept analysis.