Supplementary File 2: Effect of corrected insulin response on cardiometabolic parameters

Exposure: Corrected Insulin Response Outcome: Waist-to-Hip Ratio

Results from two sample MR:

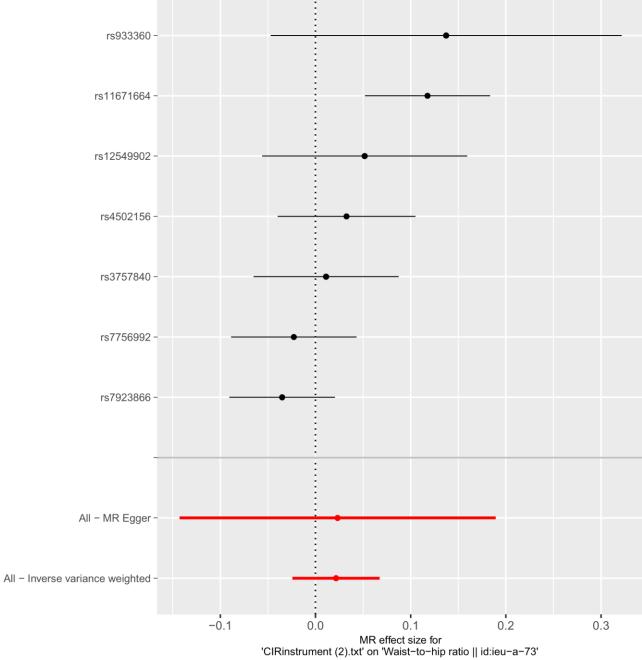
method	nsnp	b	se	pval
MR Egger	7	0.0321250	0.0833561	0.7157958
Weighted median	7	-0.0133751	0.0137789	0.3317033
Inverse variance weighted	7	0.0095089	0.0239154	0.6909220
Simple mode	7	-0.0179172	0.0255213	0.5089538
Weighted mode	7	-0.0307832	0.0123619	0.0471514

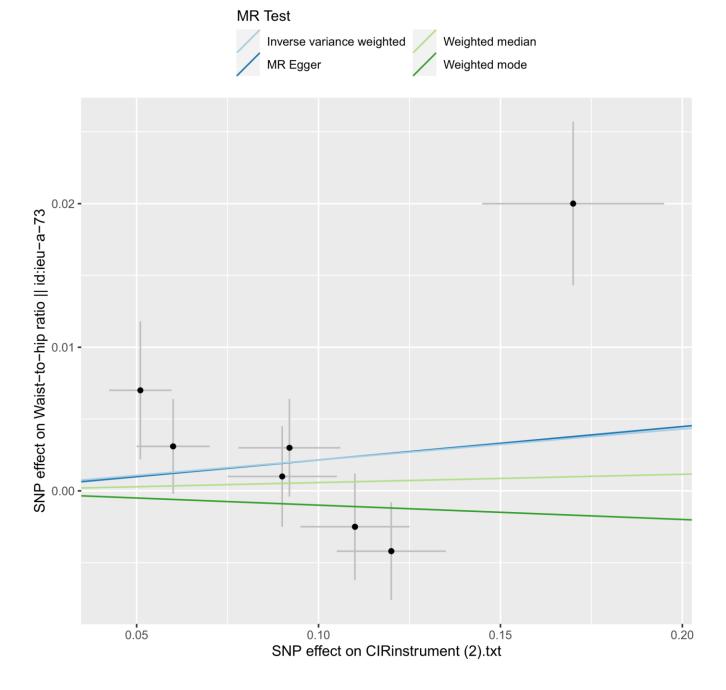
Heterogeneity tests

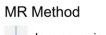
method	Q	Q_df C	2_pval
MR Egger	66.34434	5	0
Inverse variance weighted	67.42627	6	0

Test for directional horizontal pleiotropy

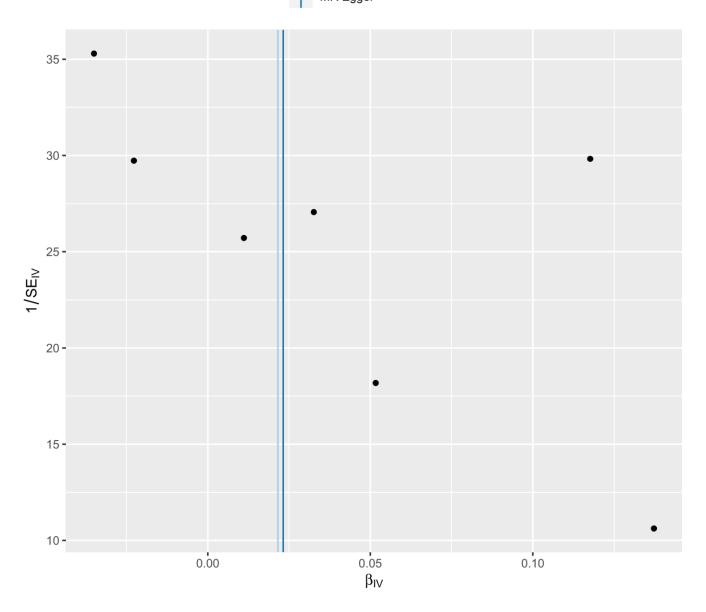
egger_intercept se pval -0.0023367 0.0081833 0.7866736

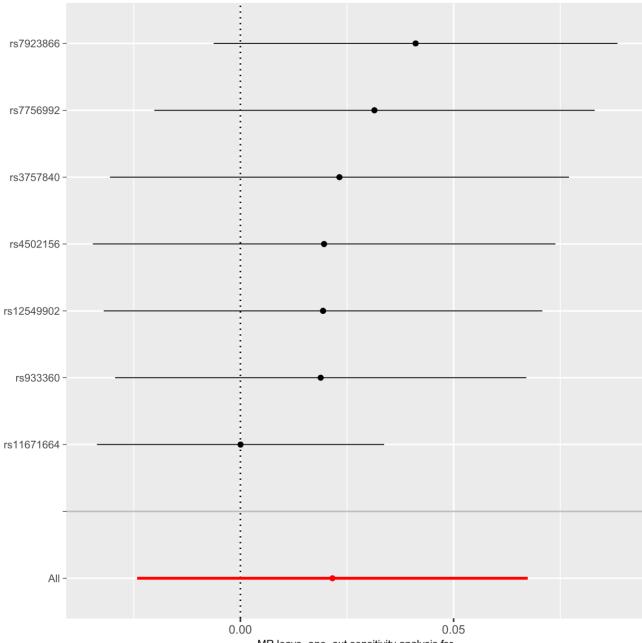






Inverse variance weighted MR Egger





MR leave-one-out sensitivity analysis for 'CIRinstrument (2).txt' on 'Waist-to-hip ratio || id:ieu-a-73'

Exposure: Corrected Insulin Response, Outcome: Waist-to-Hip Ratio adjusted for Body Mass Index

Results from two sample MR:

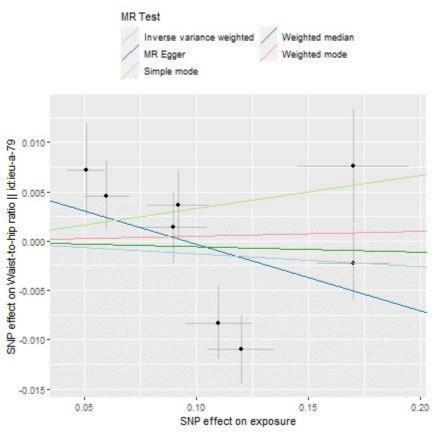
method	nsnp	b	se	pval
MR Egger	7	-0.0676635	0.0851654	0.4629326
Weighted median	7	0.0090489	0.0140206	0.5186665
Inverse variance weighted	7	-0.0181022	0.0253012	0.4743184
Simple mode	7	0.0420798	0.0177506	0.0554743
Weighted mode	7	0.0347674	0.0207333	0.1445785

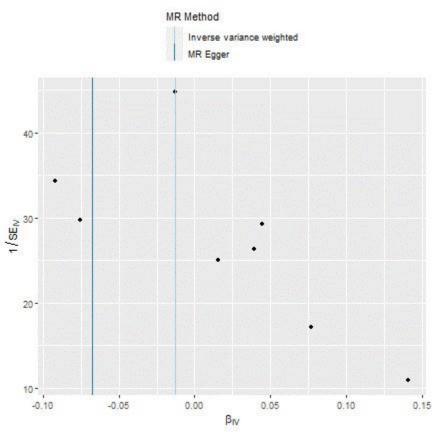
Heterogeneity tests

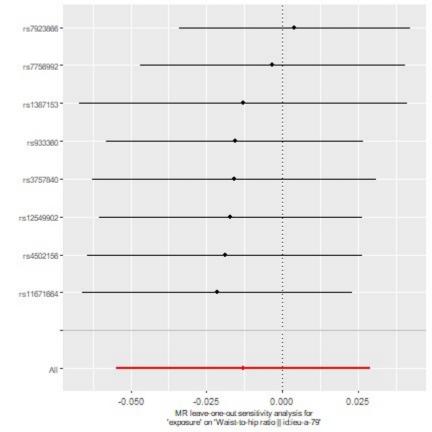
method	Q	Q_df C	_pval
MR Egger	68.26968	5	0
Inverse variance weighted	73.39894	6	0

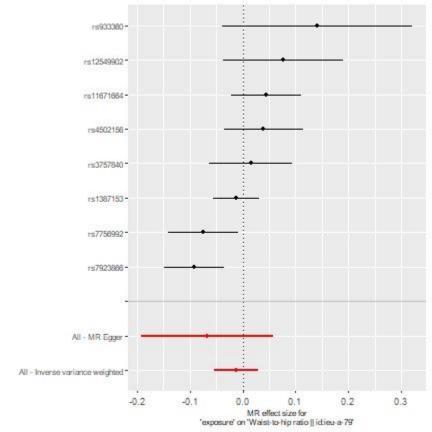
Test for directional horizontal pleiotropy

egger_intercept se pval 0.0051008 0.0083222 0.566737









method	nsnp	b	se	pval
MR Egger	7	0.0963049	0.0310484	0.0267994
Weighted median	7	0.0308977	0.0080142	0.0001156
Inverse variance weighted	7	0.0289189	0.0127660	0.0234937
Simple mode	7	0.0324867	0.0120228	0.0354770
Weighted mode	7	0.0321854	0.0098808	0.0173058

Heterogeneity tests

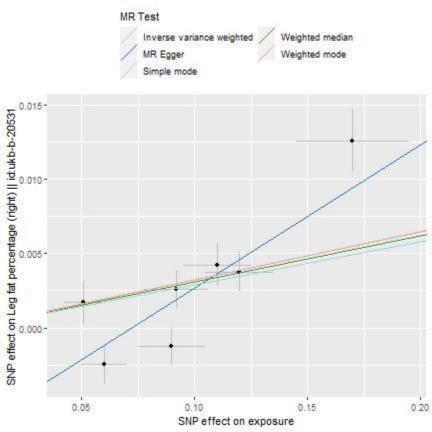
 method
 Q Q_df
 Q_pval

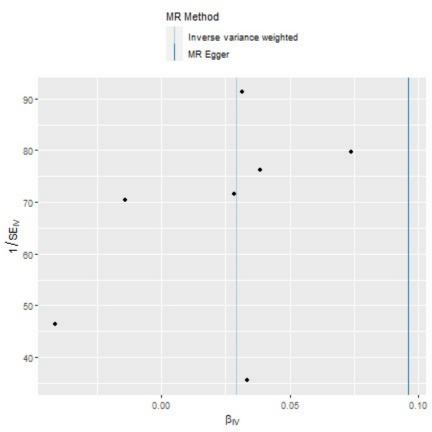
 MR Egger
 16.24640
 5 0.0061747

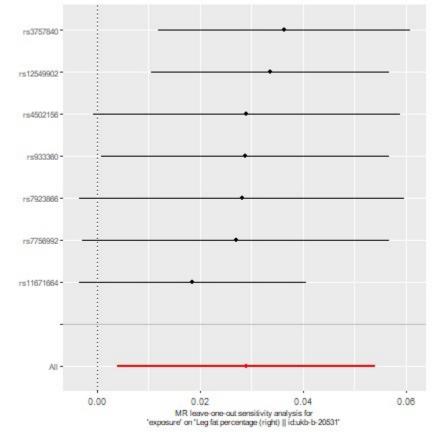
 Inverse variance weighted 33.23677
 6 0.0000094

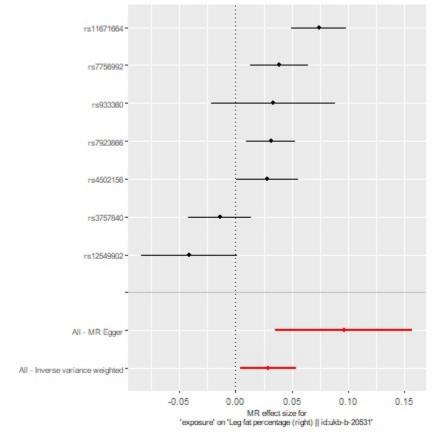
Test for directional horizontal pleiotropy

egger_intercept se pval -0.0069221 0.0030271 0.0709419









Exposure: Corrected Insulin Response, Outcome: Liver Fat

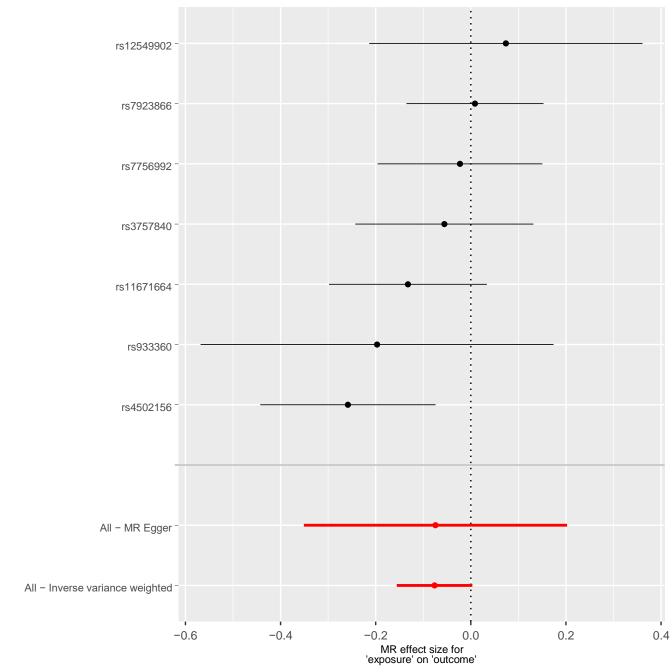
Method	nsnp	beta	se	pval
MR Egger	7	-0.074	0.141	0.621
Weighted median	7	-0.041	0.05	0.405
Inverse variance weighted	7	0.076	0.04	0.06
weighted		-0.076	0.04	0.06
Simple mode	7	-0.026	0.07	0.723
Weighted mode	7	-0.026	0.064	0.7

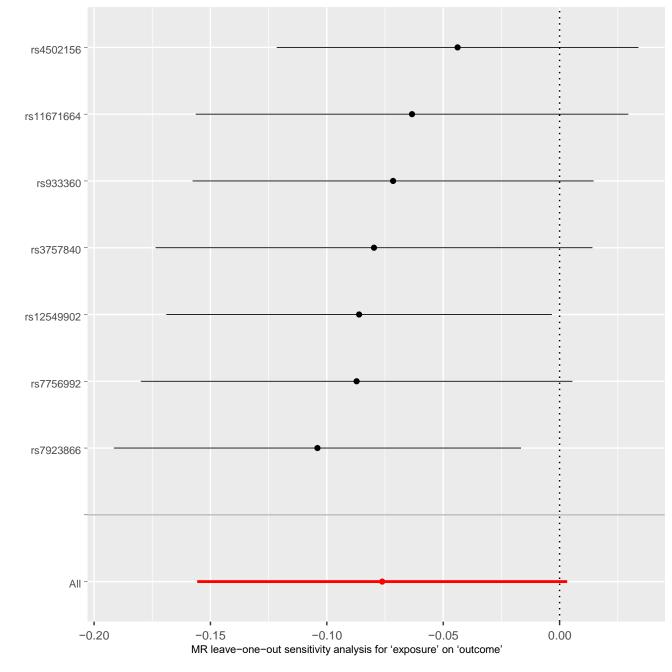
Heterogeneity tests:

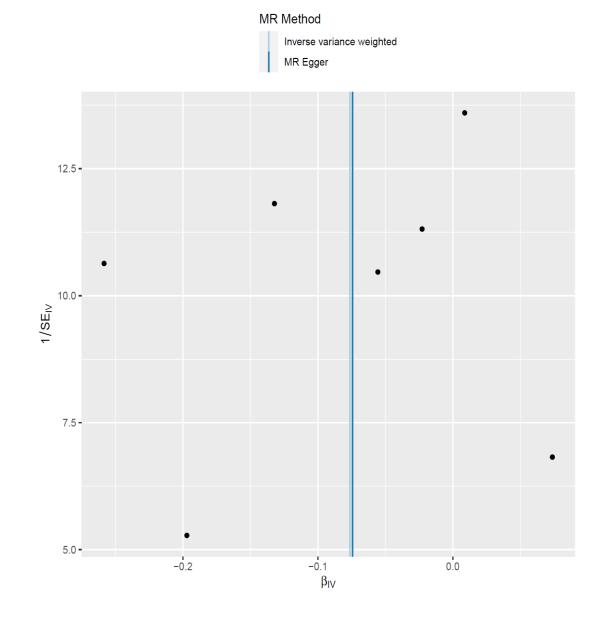
Method	Q	Q_df	Q_pval
MR Egger	7.39	5	0.193
Inverse variance weighted	7.39	6	0.286

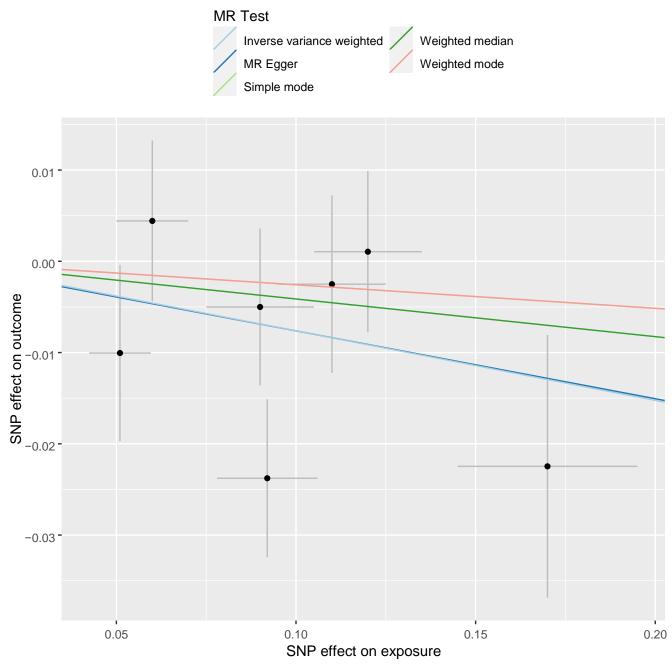
Test for directional horizontal pleiotropy:

Egger_intercept	se	pval
-0.00019	0.014	0.98









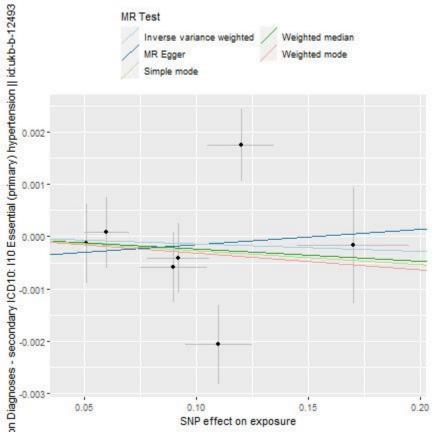
method	nsnp	b	se	pval
MR Egger	7 0.00	029412 0.	0154000	0.8560500
Weighted median	7 -0.0	023705 0.	0043531	0.5860614
Inverse variance weighted	7 -0.00	014397 0.	0044674	0.7472460
Simple mode	7 -0.00	026606 0.	0067889	0.7086691
Weighted mode	7 -0.00	031927 0.	0076392	0.6905387

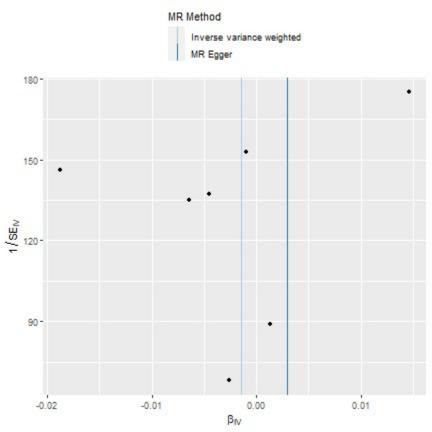
Heterogeneity tests

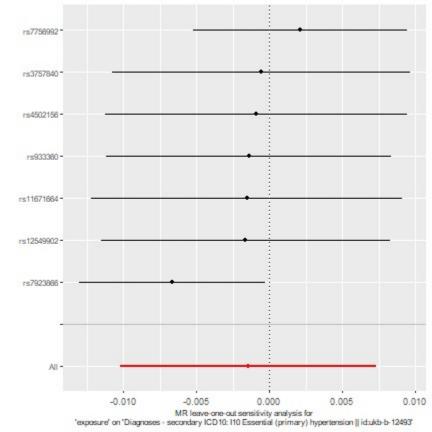
method	QQ_d	f Q_pval
MR Egger	14.70558	5 0.0116973
Inverse variance weighted	14.96980	6 0.0204929

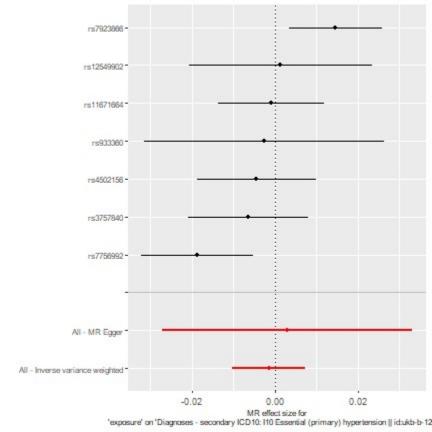
Test for directional horizontal pleiotropy

egger_intercept se pval -0.0004501 0.0015016 0.7764451









Exposure: Corrected Insulin Response, Outcome: Systolic Blood Pressure

Results from two sample MR:

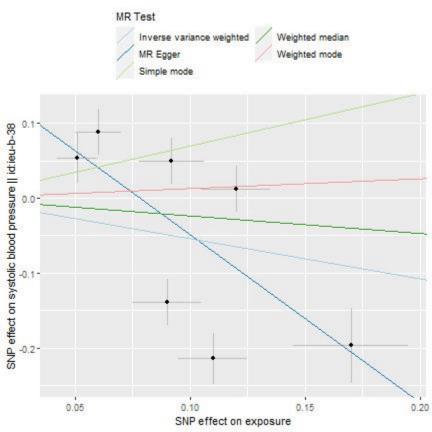
method	nsnp	b	se	pval
MR Egger	7	-2.2430229	1.3158998	0.1489994
Weighted median	7	-0.2343501	0.2532287	0.3547327
Inverse variance weighted	7	-0.5365593	0.4438628	0.2267242
Simple mode	7	0.6986504	0.6607231	0.3310306
Weighted mode	7	0.1286353	0.3593088	0.7325956

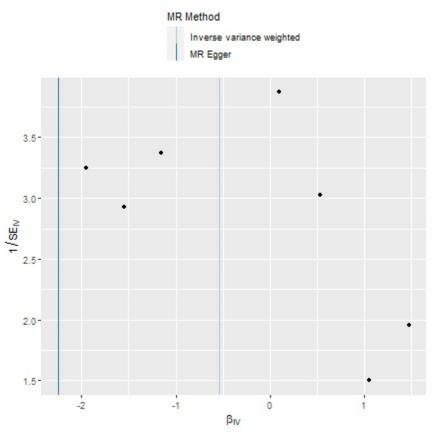
Heterogeneity tests

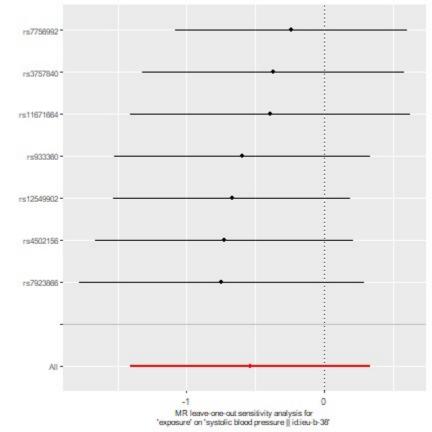
method	Q Q_df		
MR Egger	52.25330	5	0
Inverse variance wei	ghted 71.76807	6	0

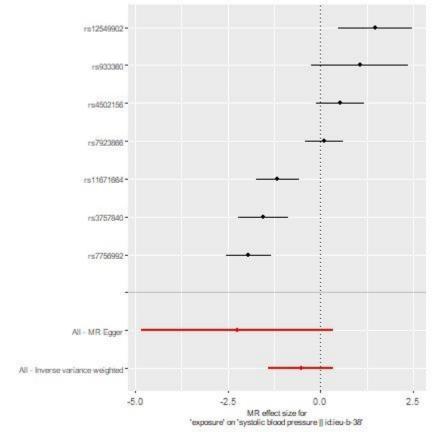
Test for directional horizontal pleiotropy

egger_intercept se pval 0.1755021 0.1284318 0.2300257









Exposure: Corrected Insulin Response, Outcome: Diastolic Blood Pressure

Results from two sample MR:

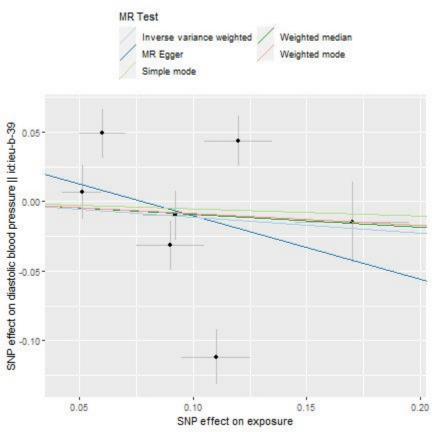
method	nsnp	b	se	pval
MR Egger	7 -0.45	64535 0.7	074576	0.5472303
Weighted median	7 -0.09	33277 0.1	209776	0.4404425
Inverse variance weighted	7 -0.11	35097 0.2	088032	0.5867027
Simple mode	7 -0.05	23889 0.1	868643	0.7886184
Weighted mode	7 -0.08	42812 0.1	578549	0.6125922

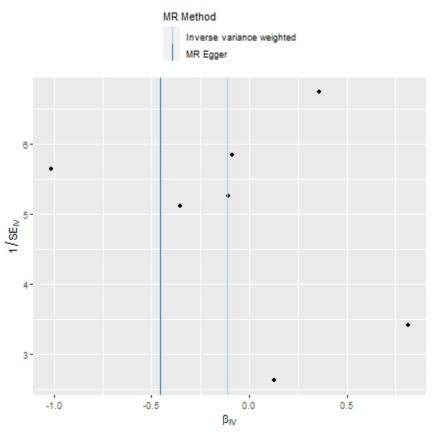
Heterogeneity tests

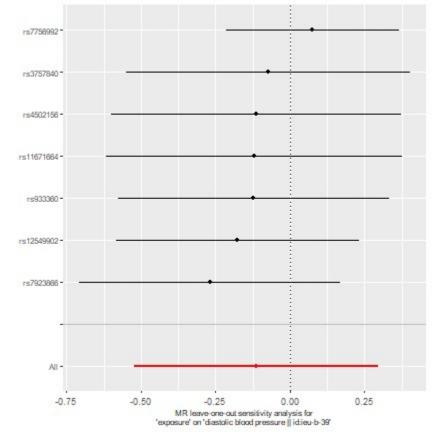
method	Q Q_df Q_pva		
MR Egger	45.65820	5	0
Inverse variance weig	ghted 48.04072	6	0

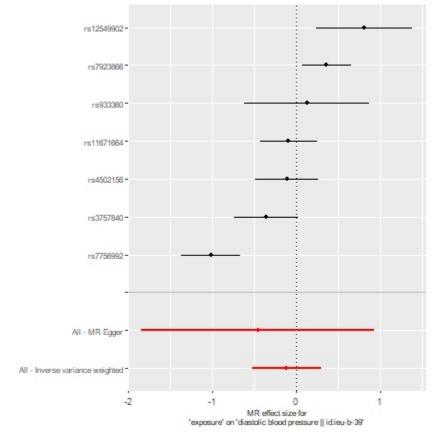
Test for directional horizontal pleiotropy

egger_intercept se pval 0.0352329 0.0689769 0.6312429









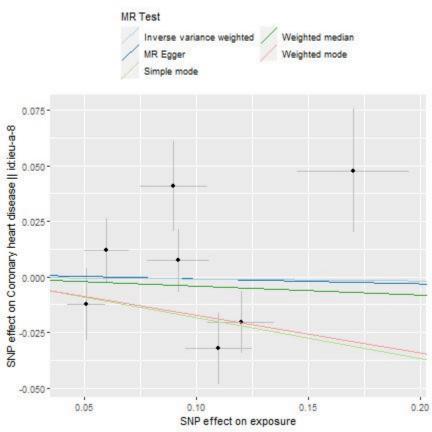
method	nsnp	b	se	pval
MR Egger	7 -0.022	5323 0.347	74347 0.9	508038
Weighted median	7 -0.040	9994 0.09	56883 0.6	683102
Inverse variance weighted	7 -0.009	1031 0.099	98871 0.9	273860
Simple mode	7 -0.183	9868 0.203	37766 0.4	013794
Weighted mode	7 -0.169	9464 0.123	31637 0.2	168506

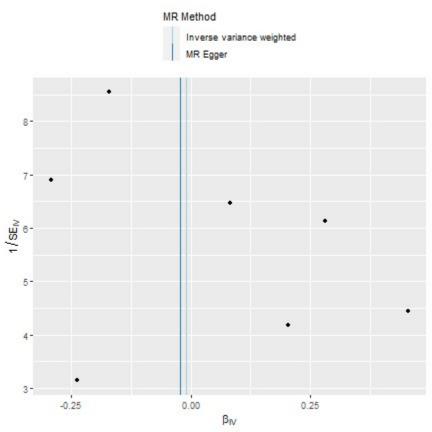
Heterogeneity tests

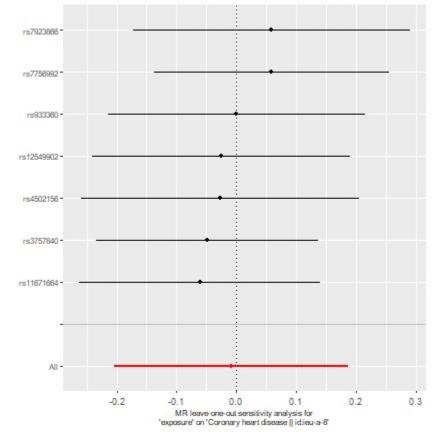
method	Q Q_0	lf	Q_pval
MR Egger	14.78573	5 (0.0113182
Inverse variance weighted	14.79063	60	0.0219491

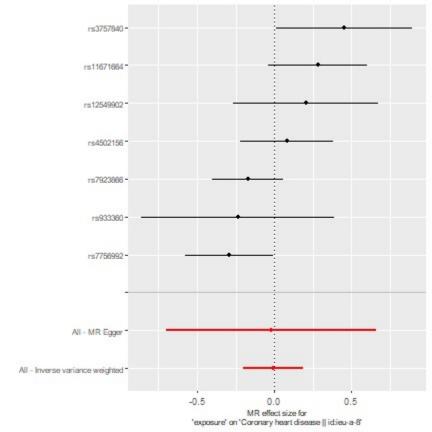
Test for directional horizontal pleiotropy

egger_intercept se pval 0.0013708 0.0336602 0.969092









method	nsnp	b	se	pval
MR Egger	7 -0.01	08608 0.	0093130	0.2961308
Weighted median	7 -0.00	040163 0.	0025176	0.1106519
Inverse variance weighted	7 -0.00	20739 0.	0029300	0.4790536
Simple mode	7 -0.00	47685 0.	0047456	0.3537661
Weighted mode	7 -0.00	062940 0.	0034029	0.1138593

Heterogeneity tests

method	QQ	_df	Q_pval
MR Egger	16.03256	5 (0.0067517
Inverse variance weighted	19.20126	6 (0.0038369

Test for directional horizontal pleiotropy

egger_intercept se pval 0.000902 0.0009074 0.3658237

