Two sample MR report

Neutrophill count || id:ukb-d-30140_irnt against ER+ Breast cancer (Combined Oncoarray; iCOGS; GWAS meta analysis) || id:ieu-a-1127

Date: **15 July, 2020**

Results from two sample MR:

method	nsnp	b	se	pval
MR Egger	267	0.0932287	0.0761829	0.2221338
Weighted median	267	-0.0754341	0.0374826	0.0441661
Inverse variance weighted	267	-0.0272446	0.0355733	0.4437521
Simple mode	267	-0.0719041	0.0903089	0.4266249
Weighted mode	267	-0.0977448	0.0457176	0.0334271

Heterogeneity tests

method	Q	Q_df	Q_pval
MR Egger	754.1269	265	0
Inverse variance weighted	763.2070	266	0

Test for directional horizontal pleiotropy

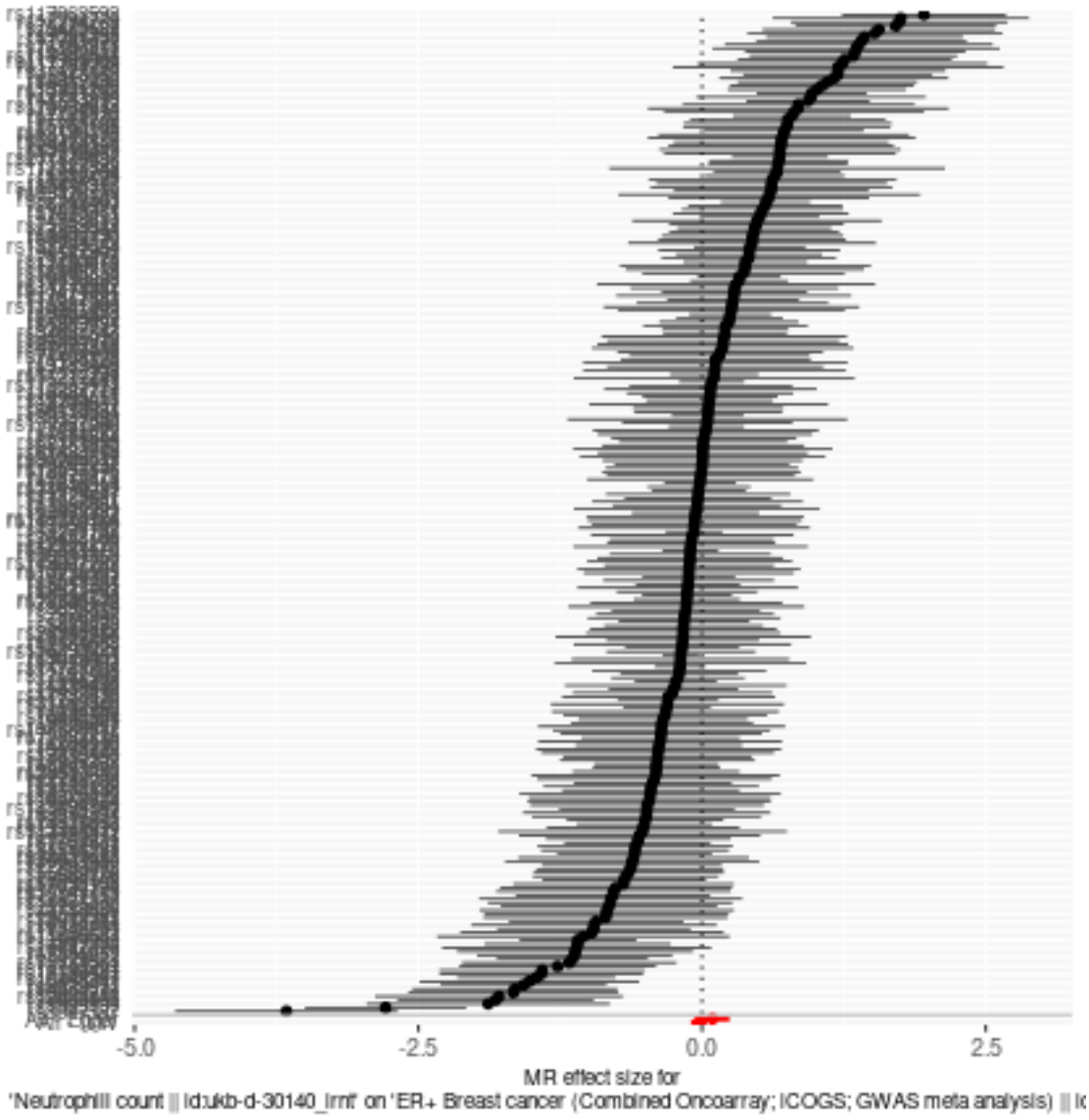
egger_intercept	se	pval
-0.0035942	0.0020121	0.0751988

Test that the exposure is upstream of the outcome

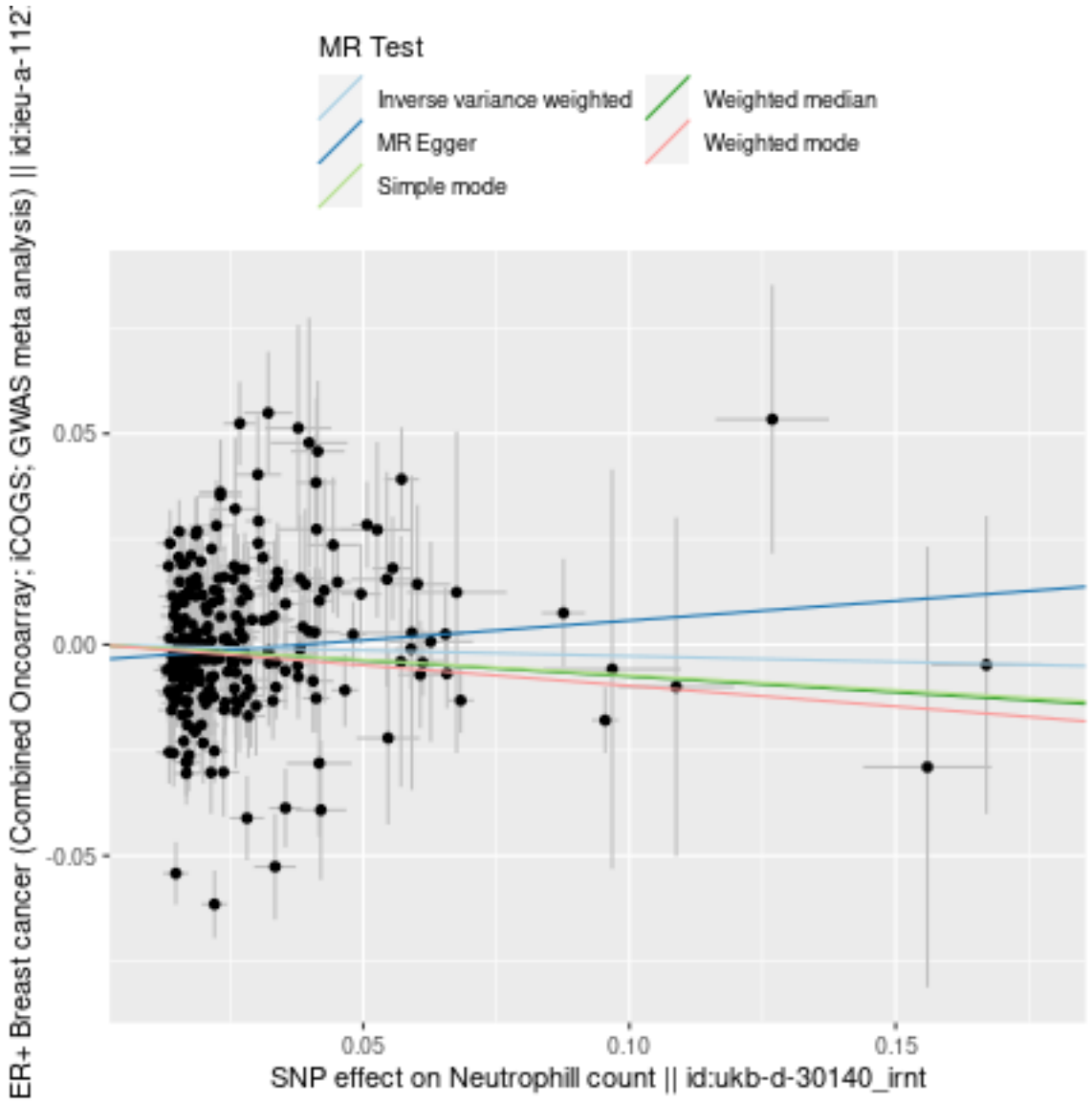
snp_r2.exposure	snp_r2.outcome	correct_causal_direction	steiger_pval
0.0676079	0.0044336	TRUE	0

Note - R^2 values are approximate

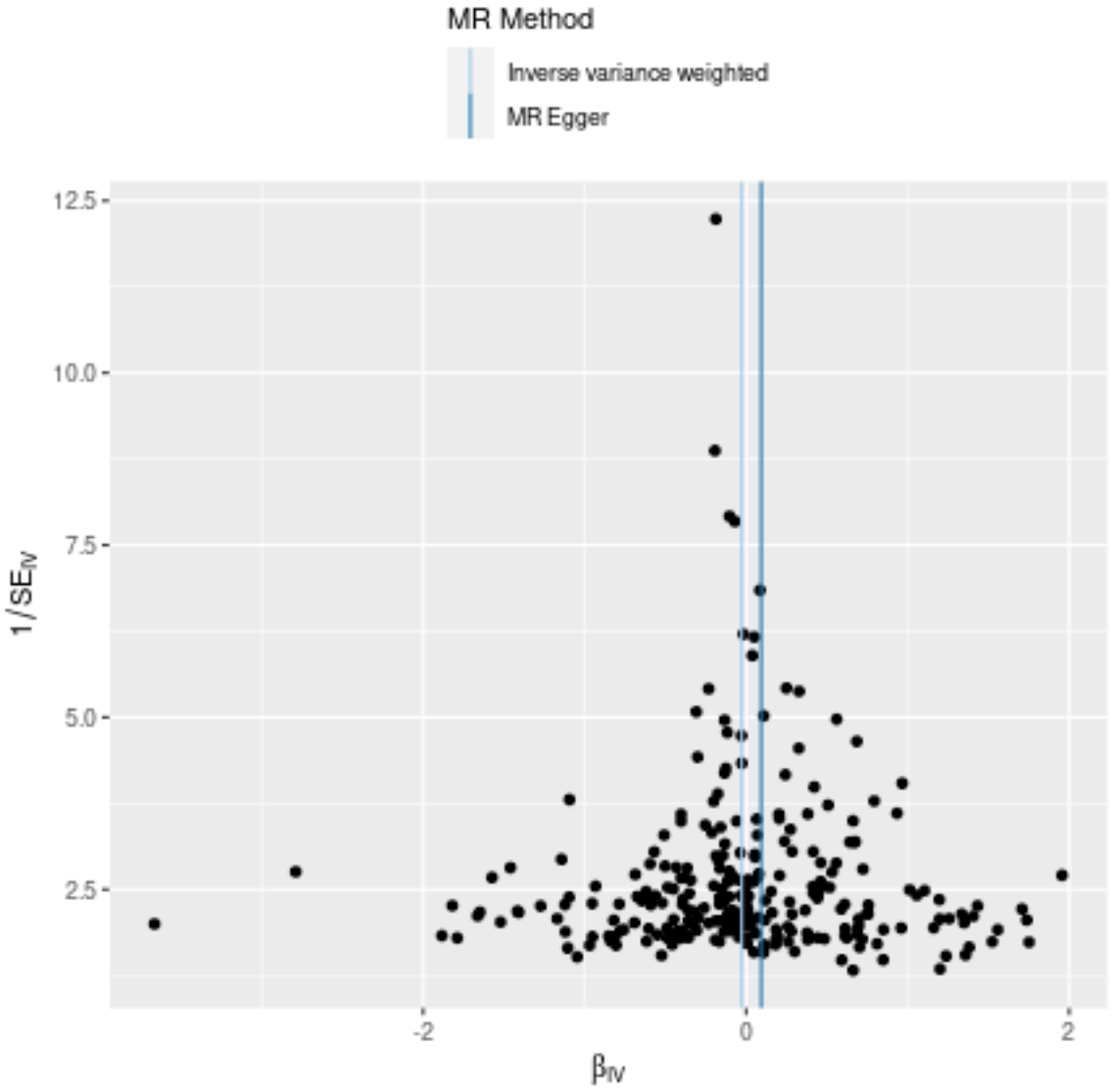
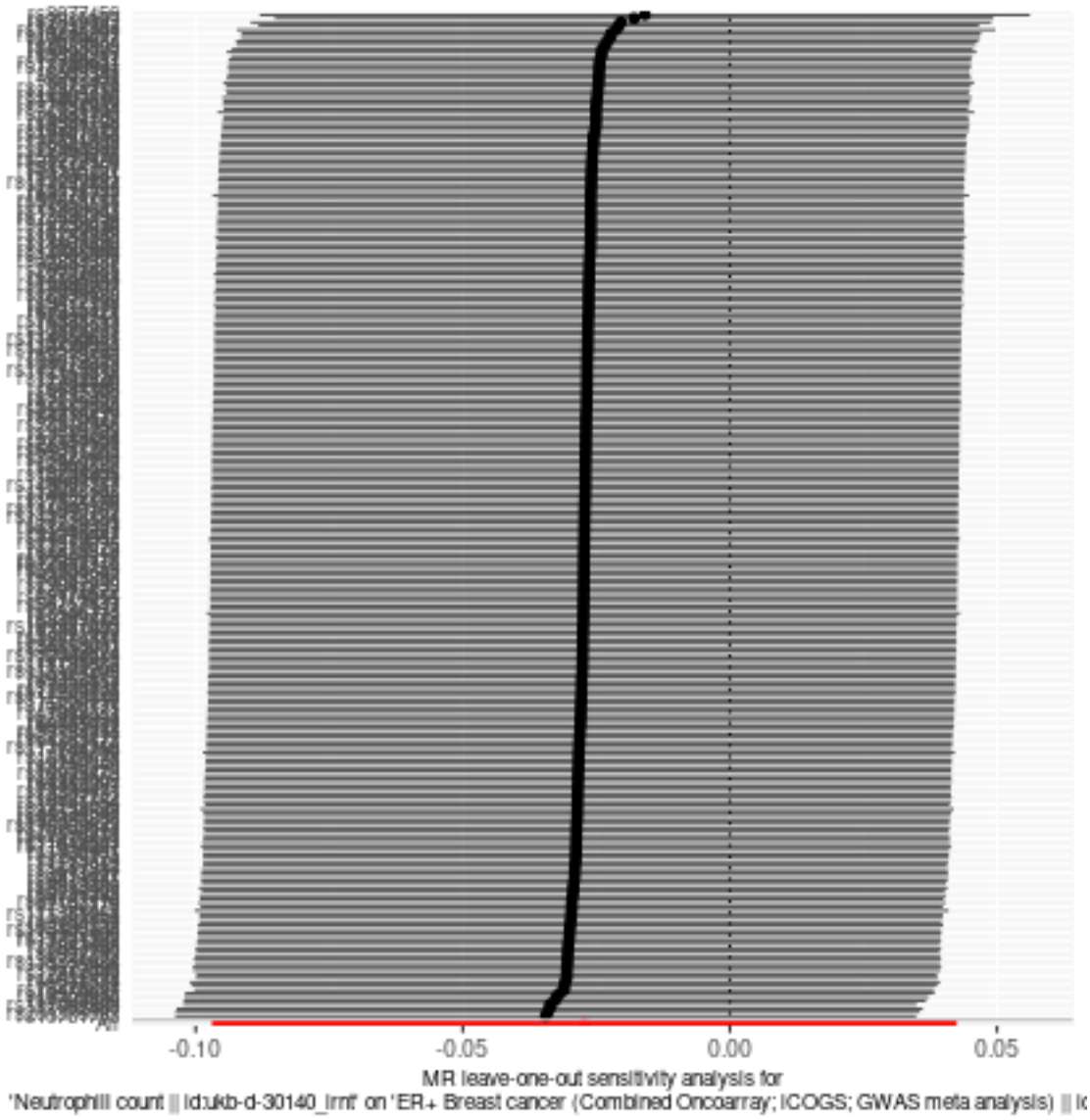
Forest plot of single SNP MR



Comparison of results using different MR methods



Funnel plot


MR Method
Inverse variance weighted
MR Egger
12.5
10.0
7.5
5.0
2.5
1/SE_IV
-2
0
2
β_IV

Leave-one-out sensitivity analysis