

## Two sample MR report

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Neutrophil count || id:ukb-d-30140\_irnt against Diagnoses - main ICD10: C61  
Malignant neoplasm of prostate || id:ukb-b-2160

Date: 15 July, 2020

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### Results from two sample MR:

method	nsnp	b	se	pval
MR Egger	219	-0.0009979	0.0014211	0.4832833
Weighted median	219	-0.0002519	0.0009091	0.7816817
Inverse variance weighted	219	-0.0005092	0.0006058	0.4006145
Simple mode	219	0.0009058	0.0021521	0.6742400
Weighted mode	219	-0.0005417	0.0010981	0.6222675

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### Heterogeneity tests

method	Q	Q_df	Q_pval
MR Egger	271.7821	217	0.0068030
Inverse variance weighted	271.9633	218	0.0075749

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### Test for directional horizontal pleiotropy

egger_intercept	se	pval
1.33e-05	3.5e-05	0.7040349

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### Test that the exposure is upstream of the outcome

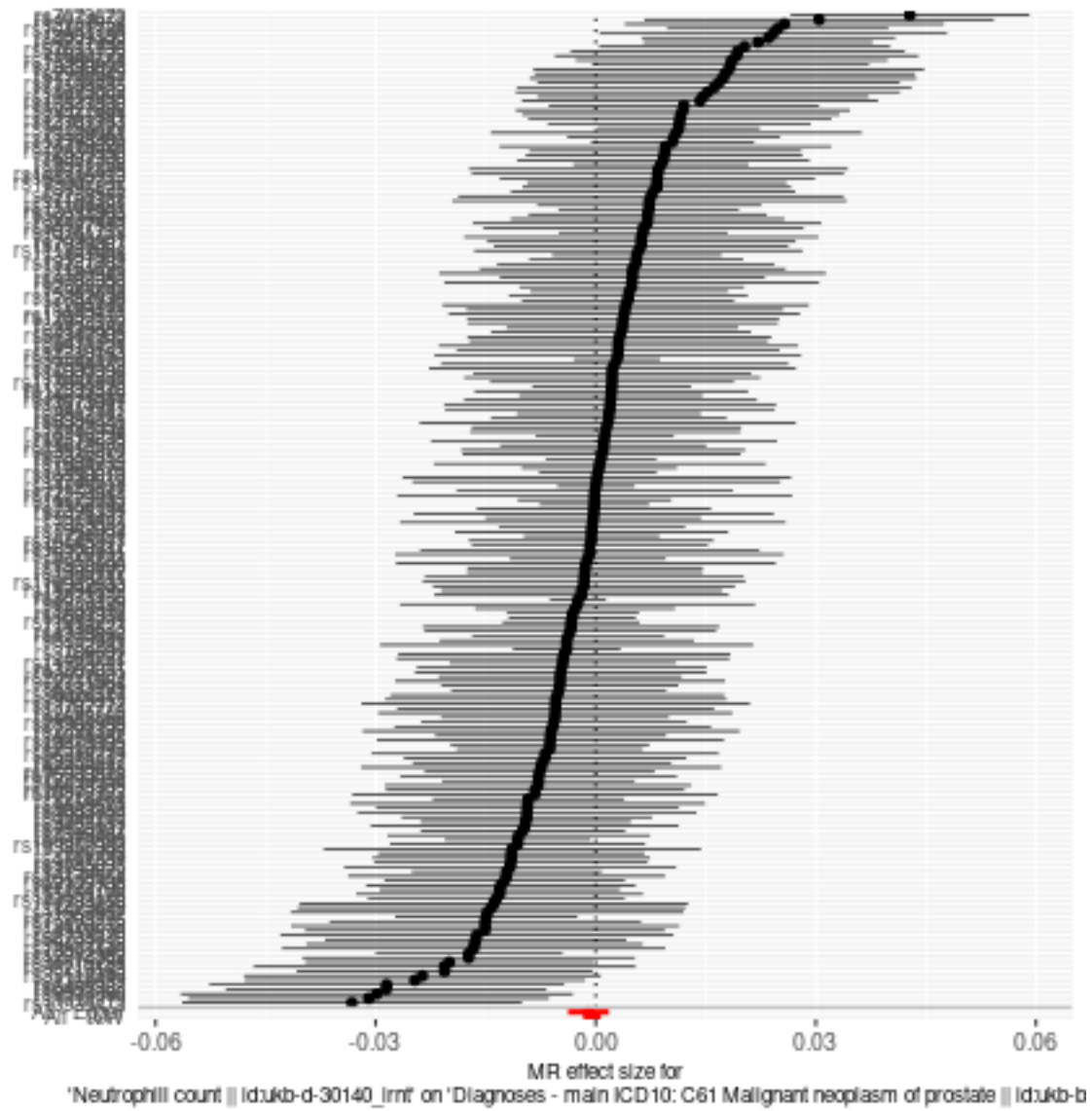
snpr2.exposure	snpr2.outcome	correct_causal_direction	steiger_pval
0.0543958	0.0006275	TRUE	0

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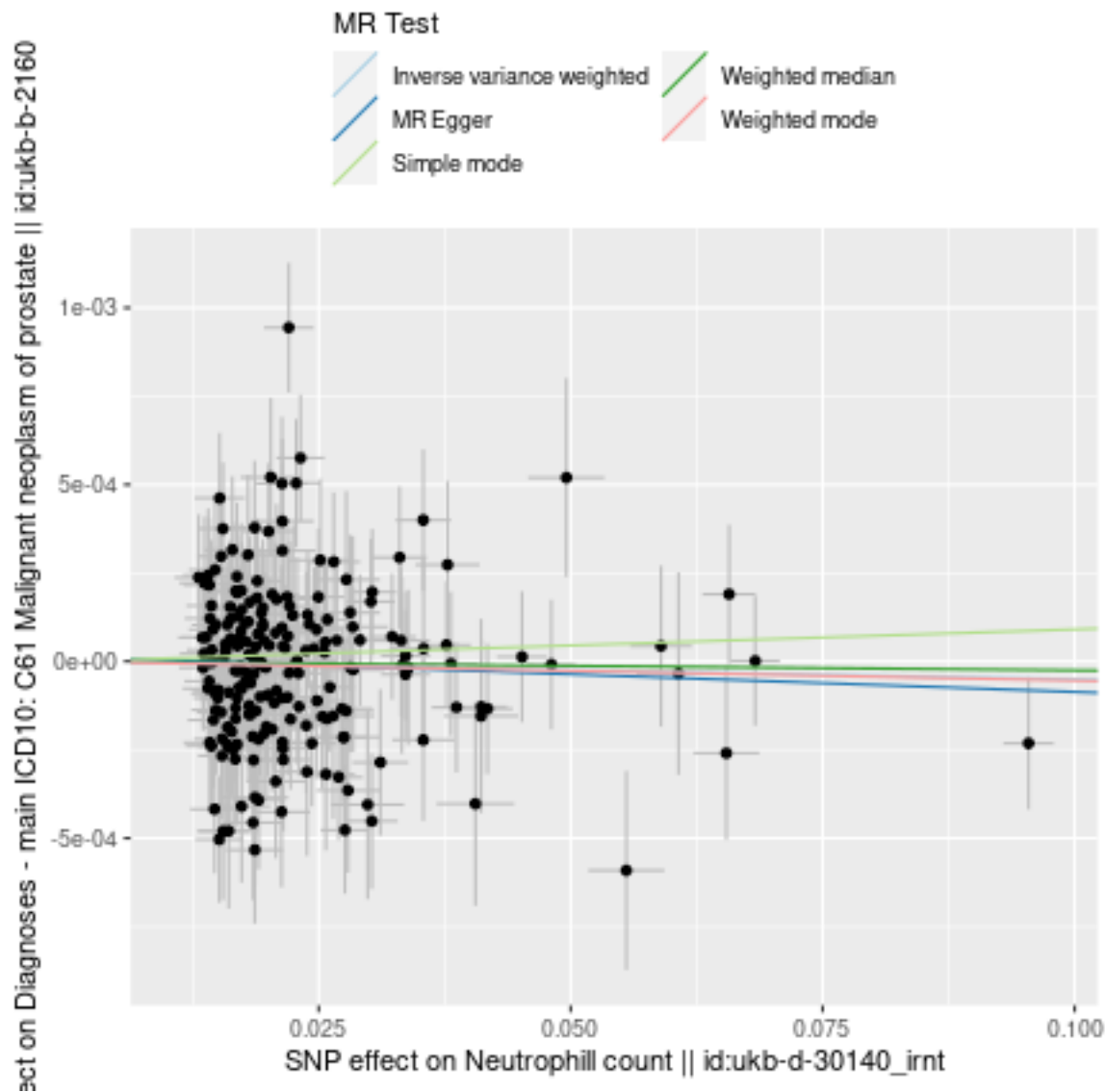
Note -  $R^2$  values are approximate

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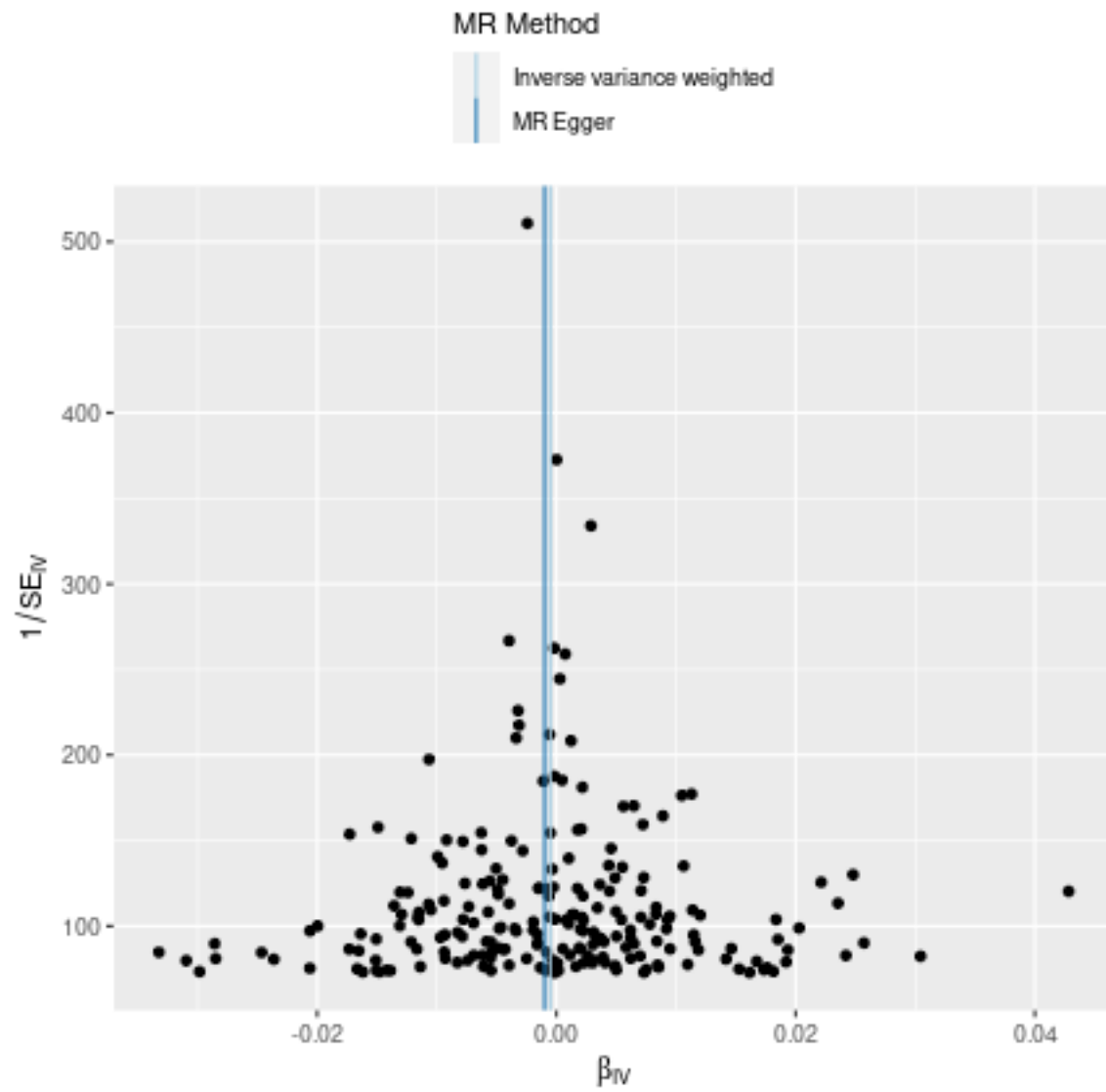
### Forest plot of single SNP MR



Comparison of results using different MR methods



## Funnel plot



## Leave-one-out sensitivity analysis

