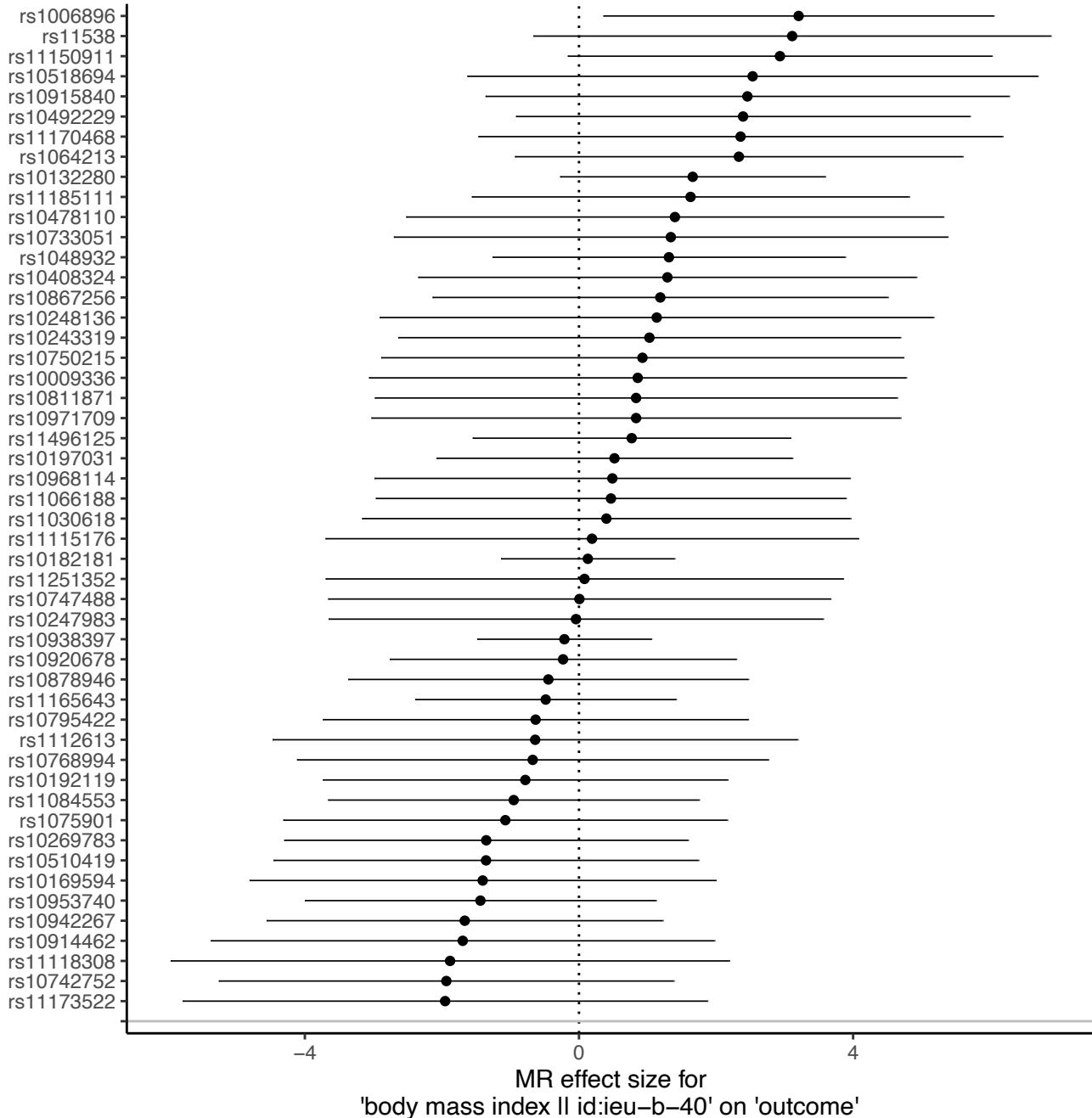
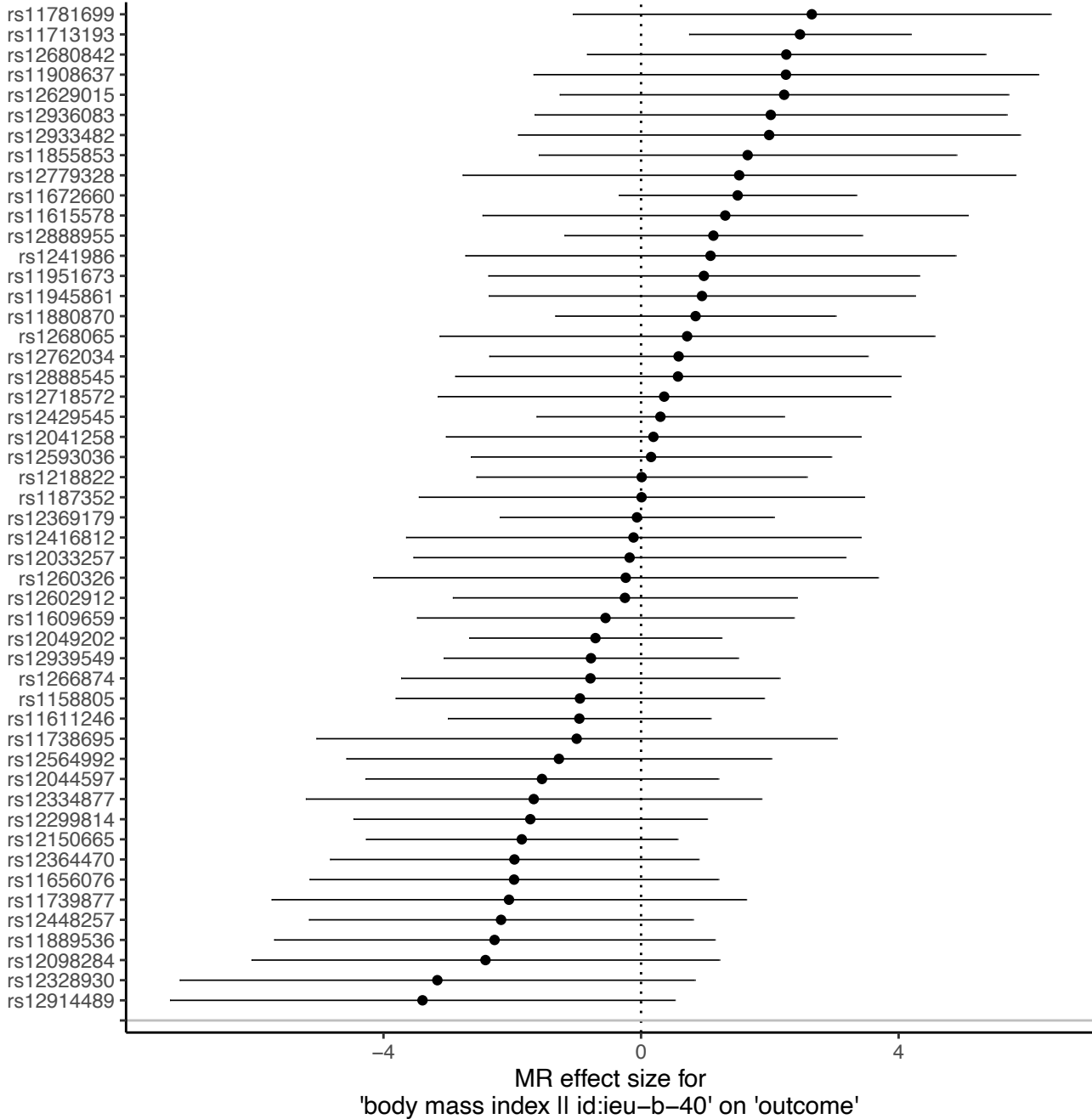
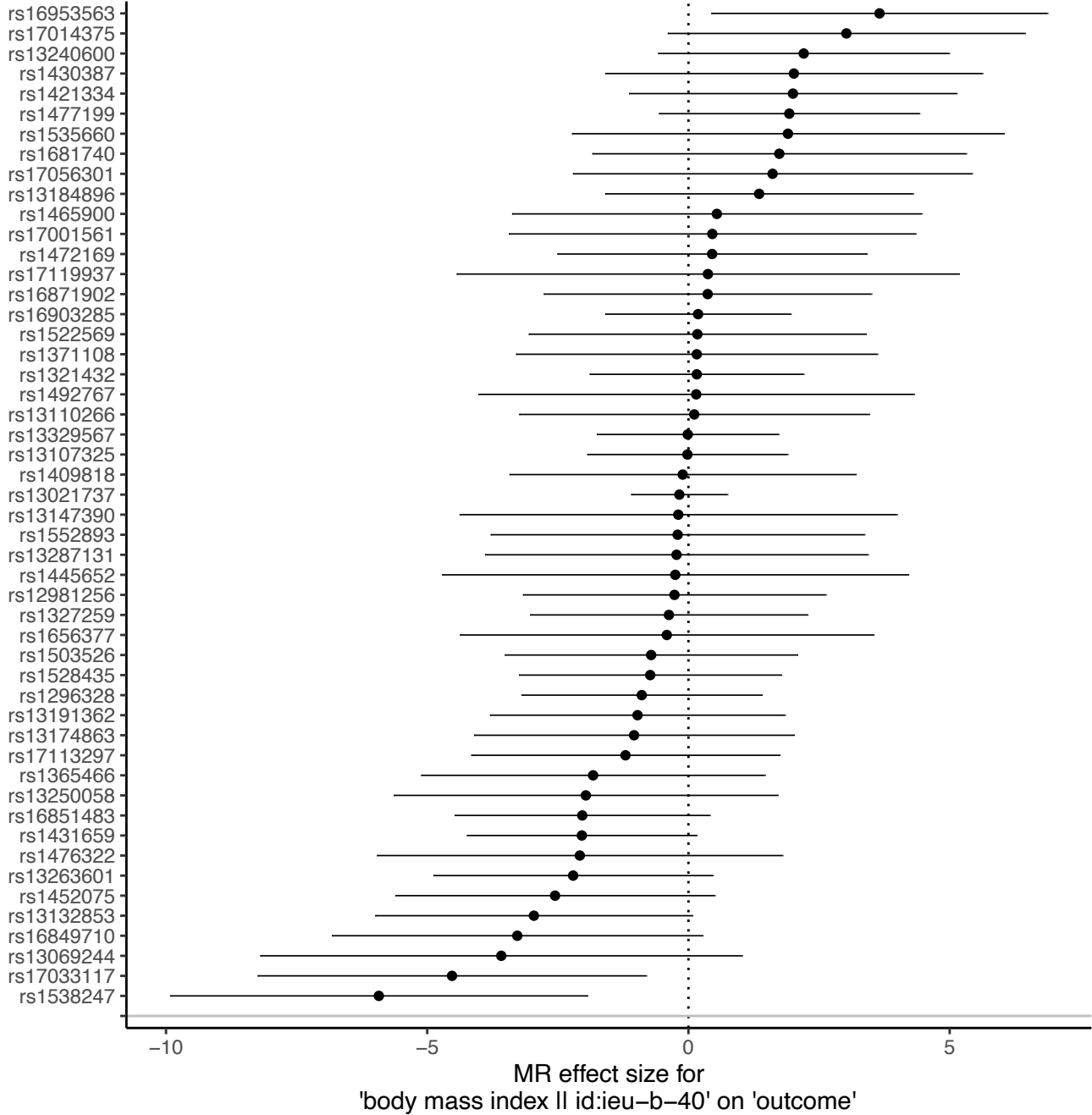


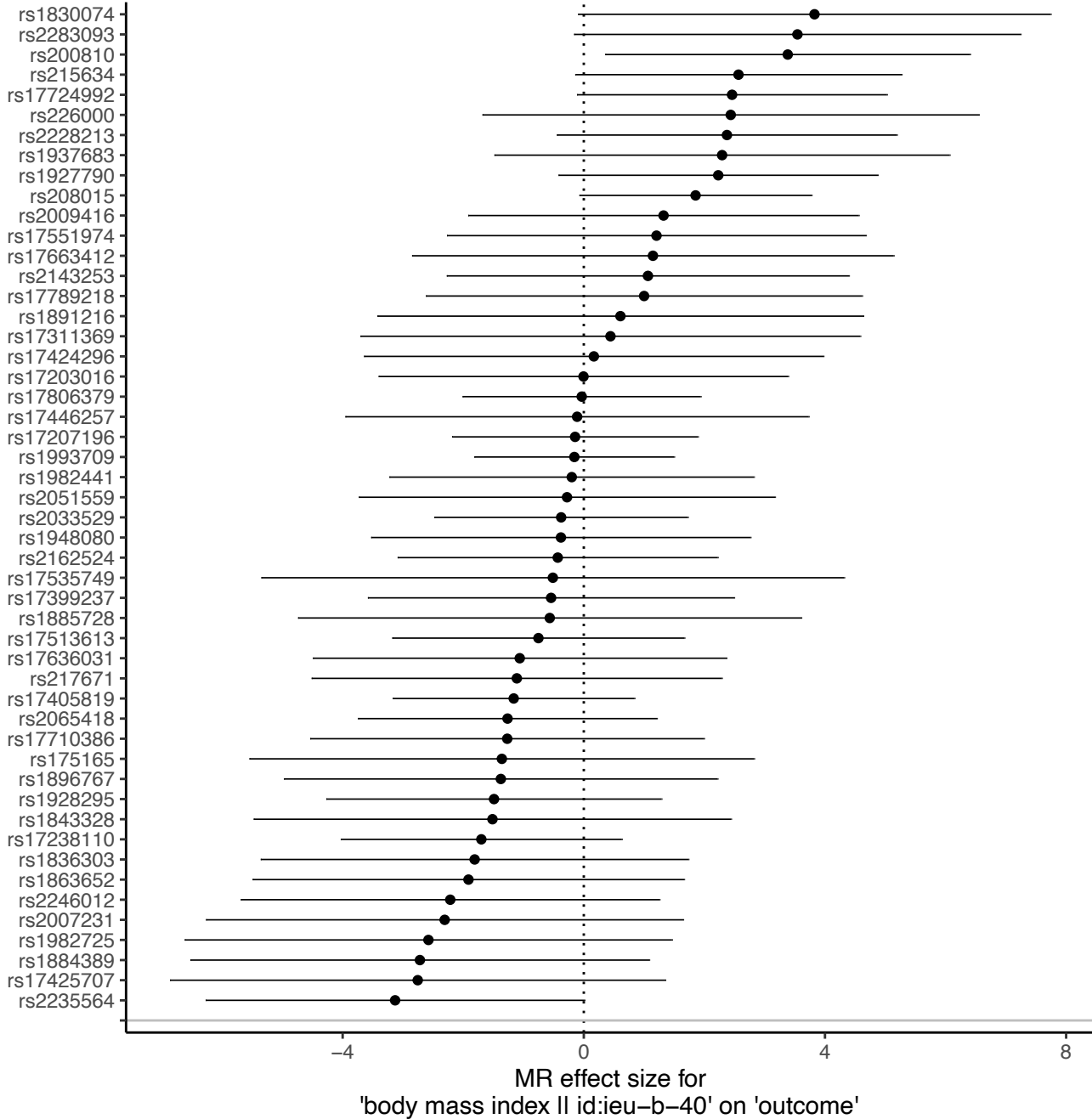
Supplementary File 1 — Exposure: Cardiometabolic traits. Outcome: Corrected Insulin Response

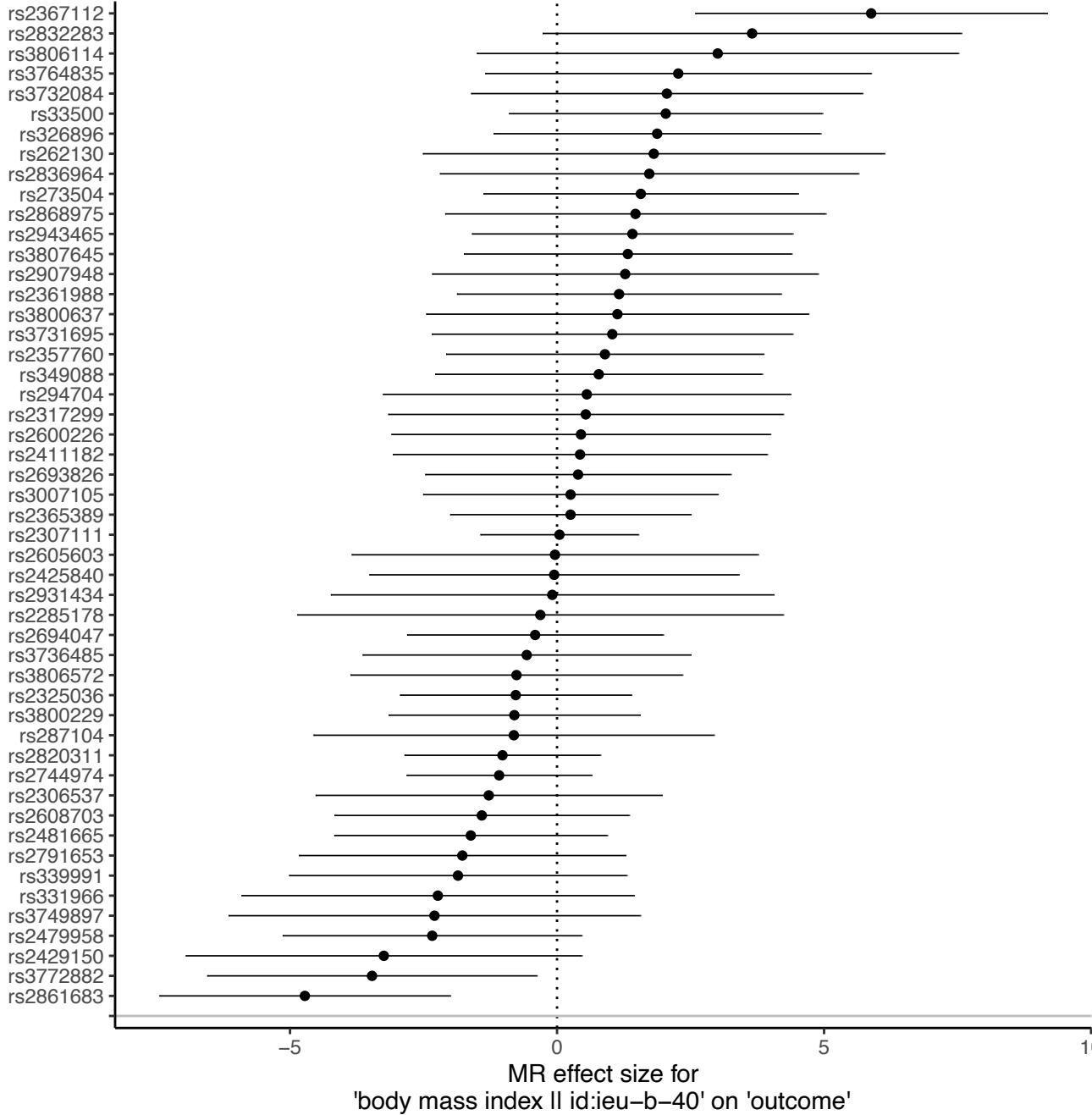
**Exposure: Body Mass Index, Outcome: Corrected Insulin Response**  
**Figures of Forest Plot, Comparison of Different MR Methods, Funnel Plot and Leave-one-out Sensitivity Analysis**

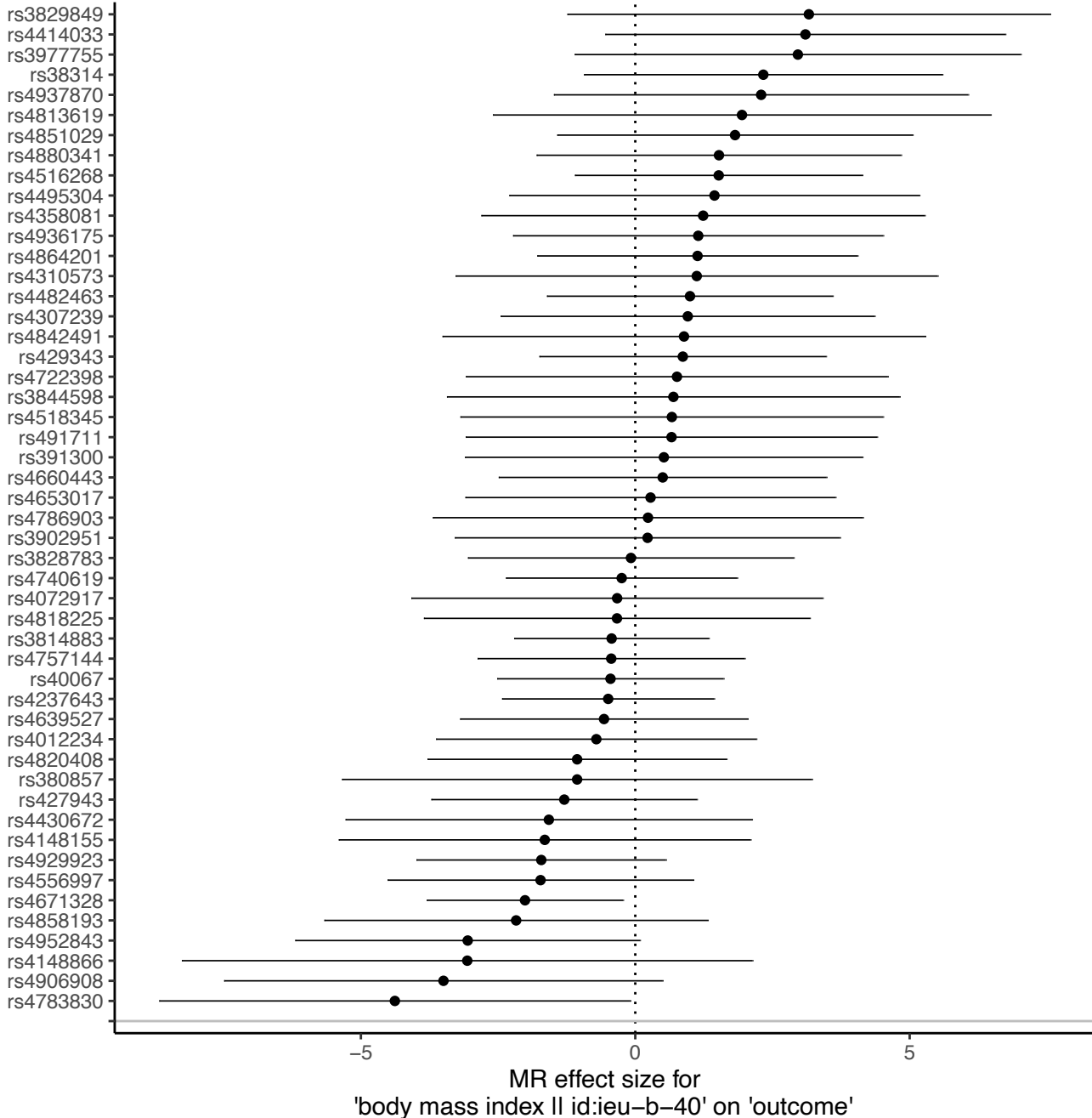




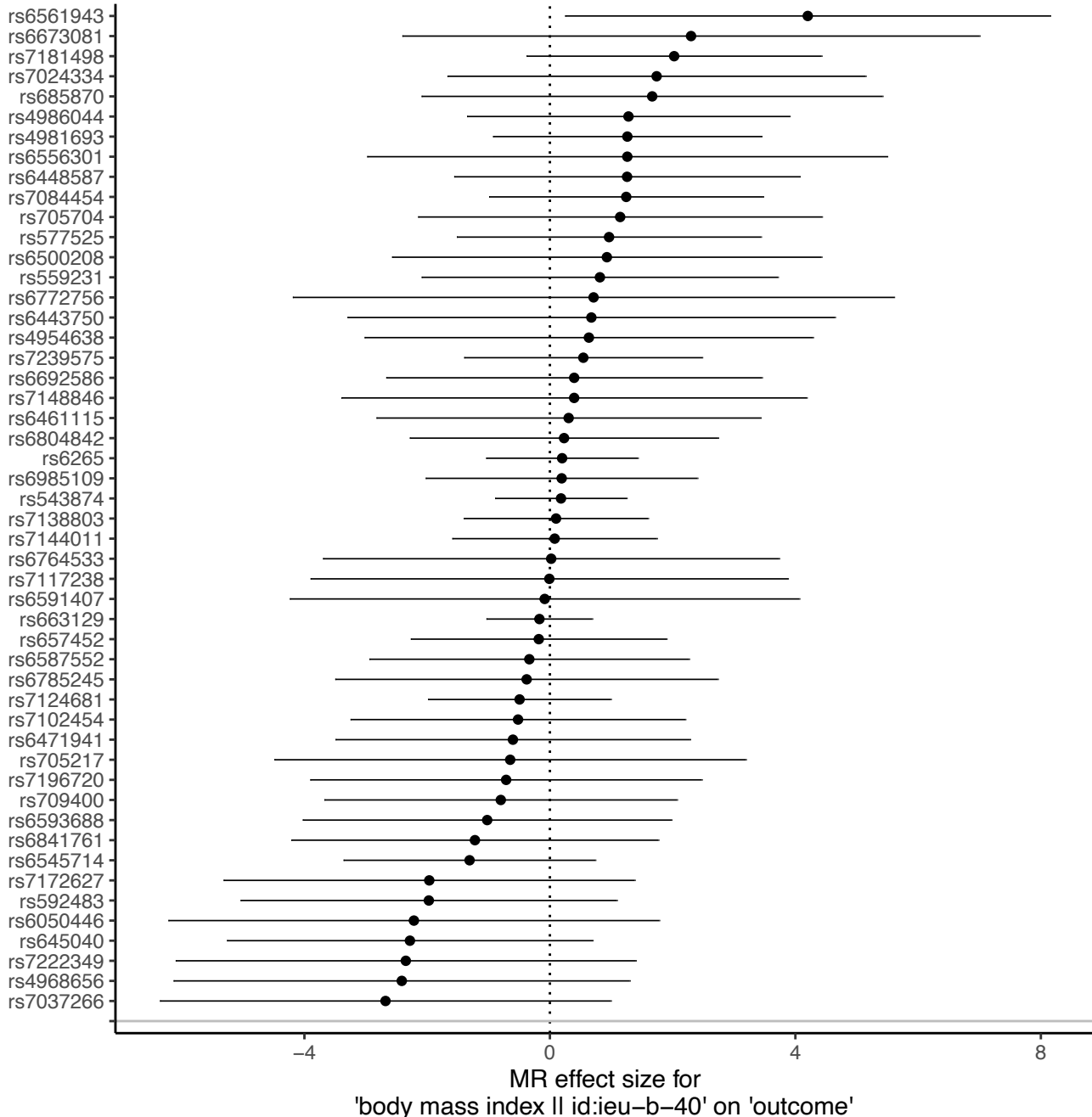


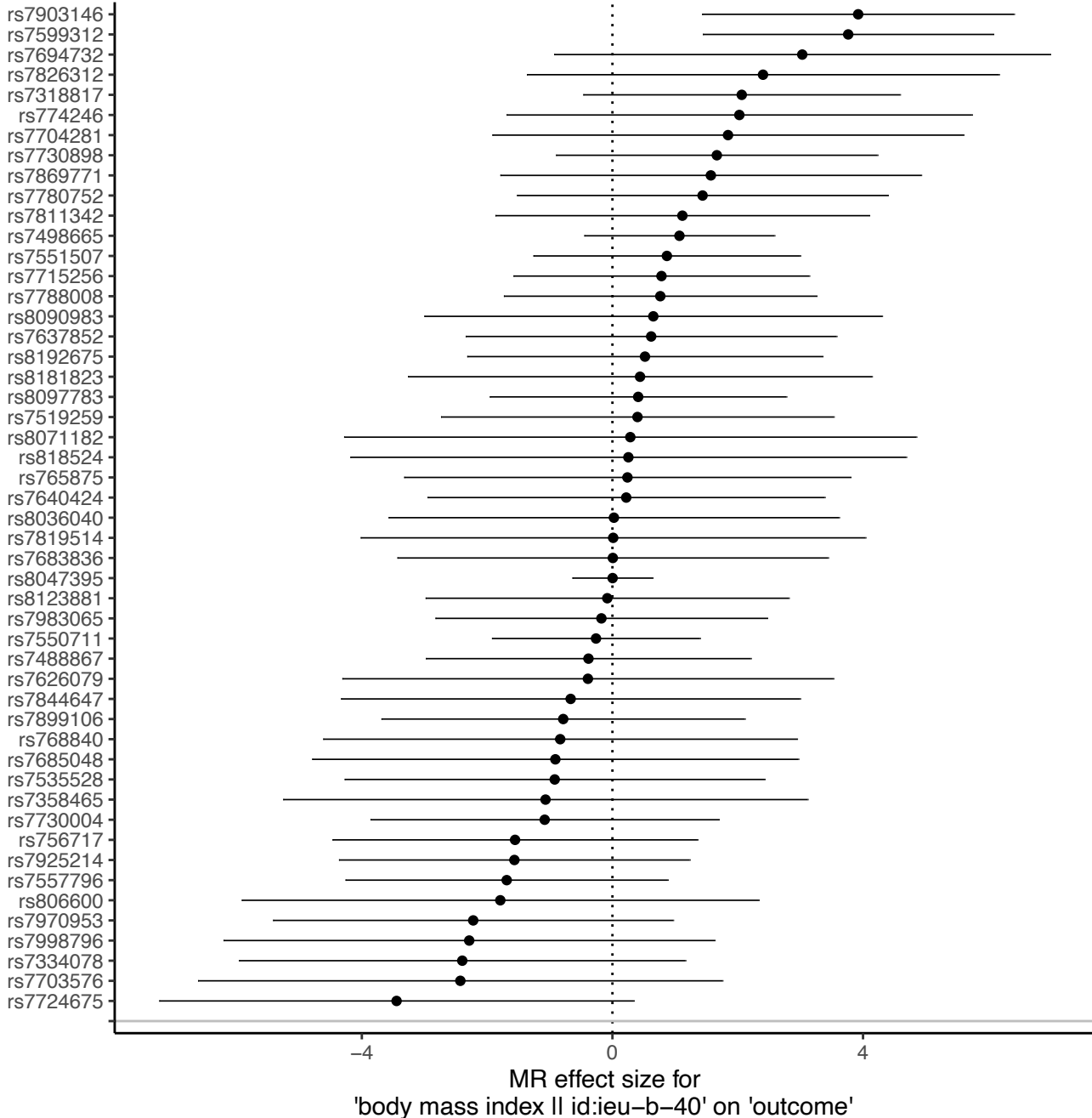


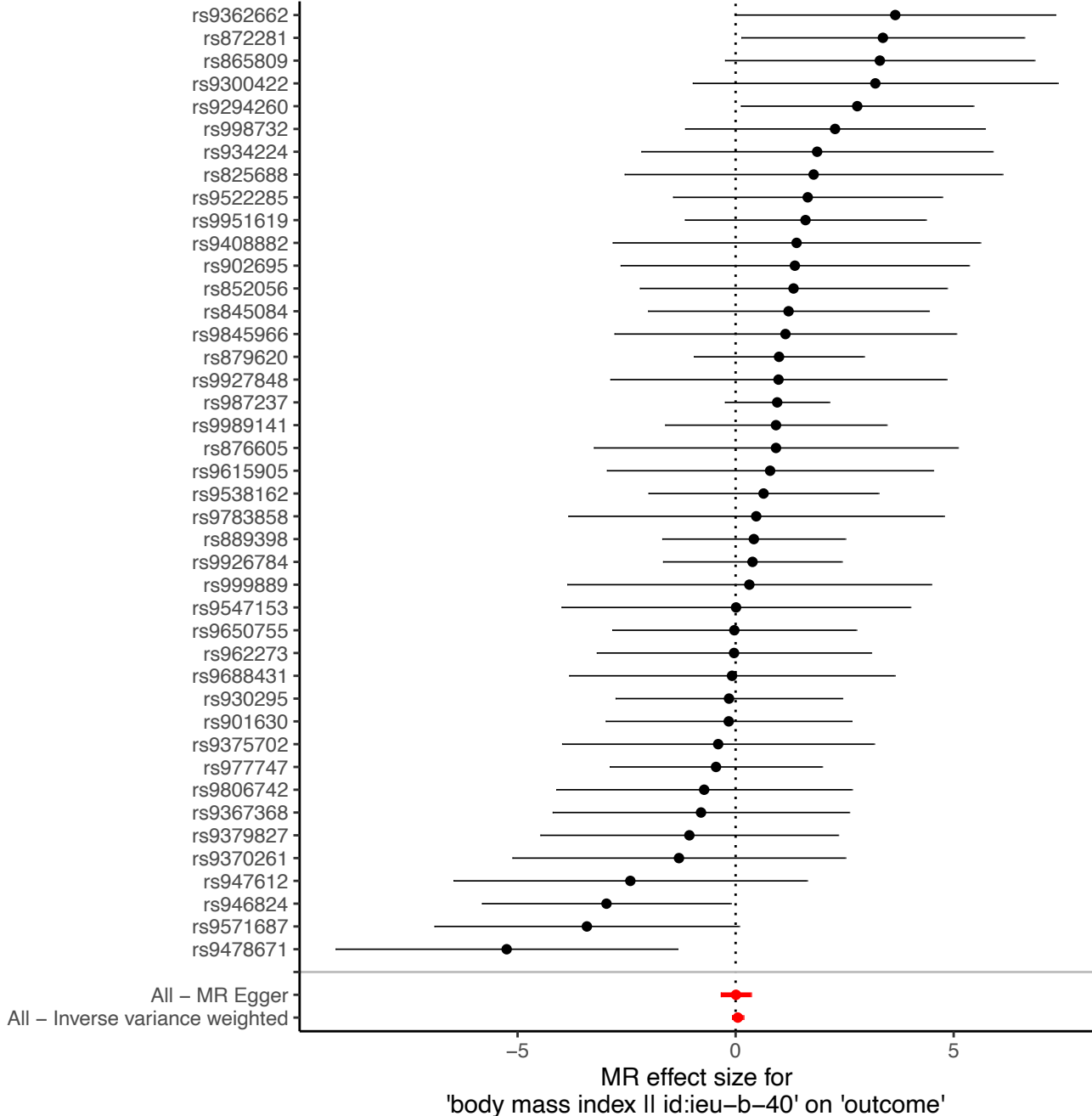






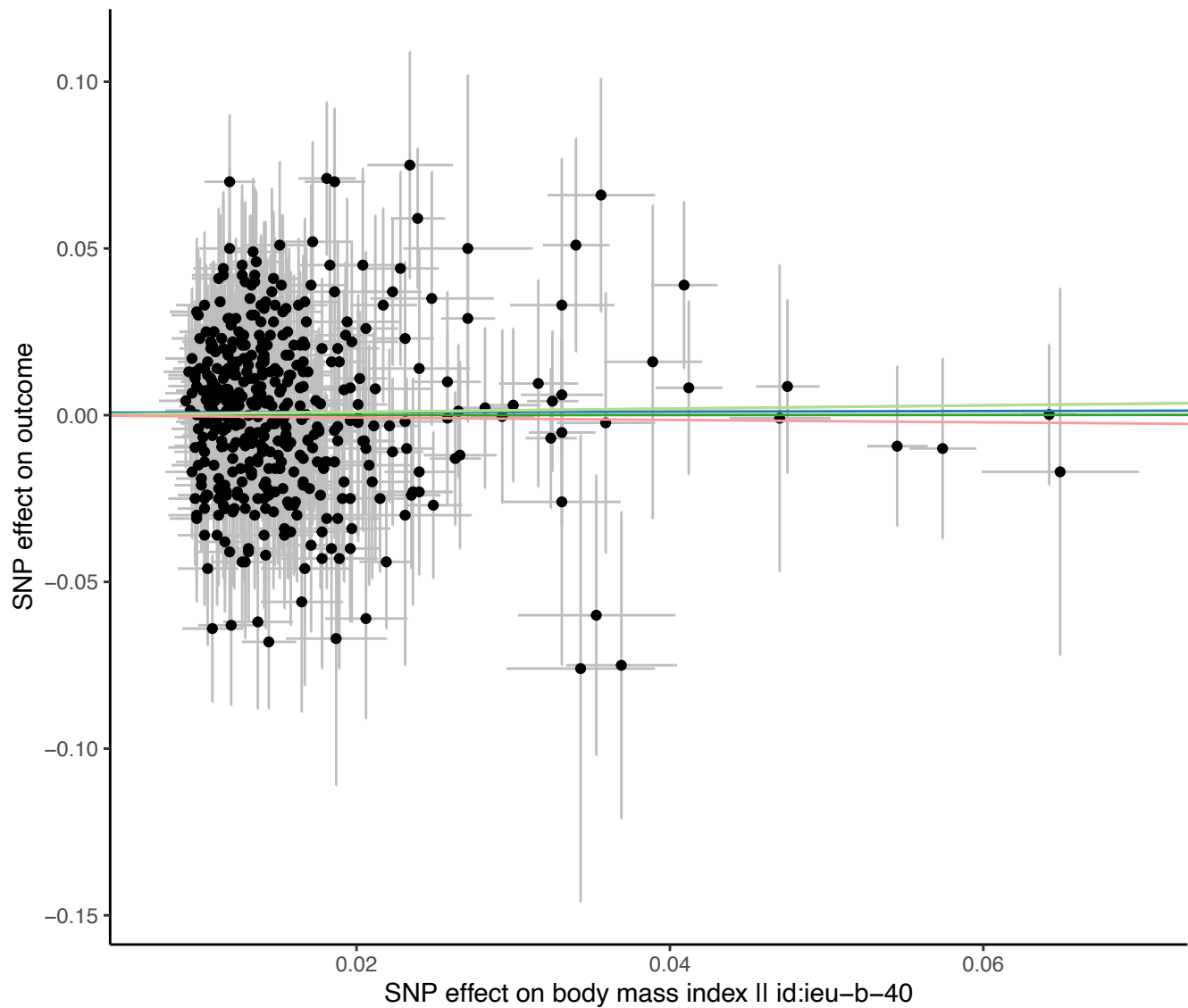






MR Test

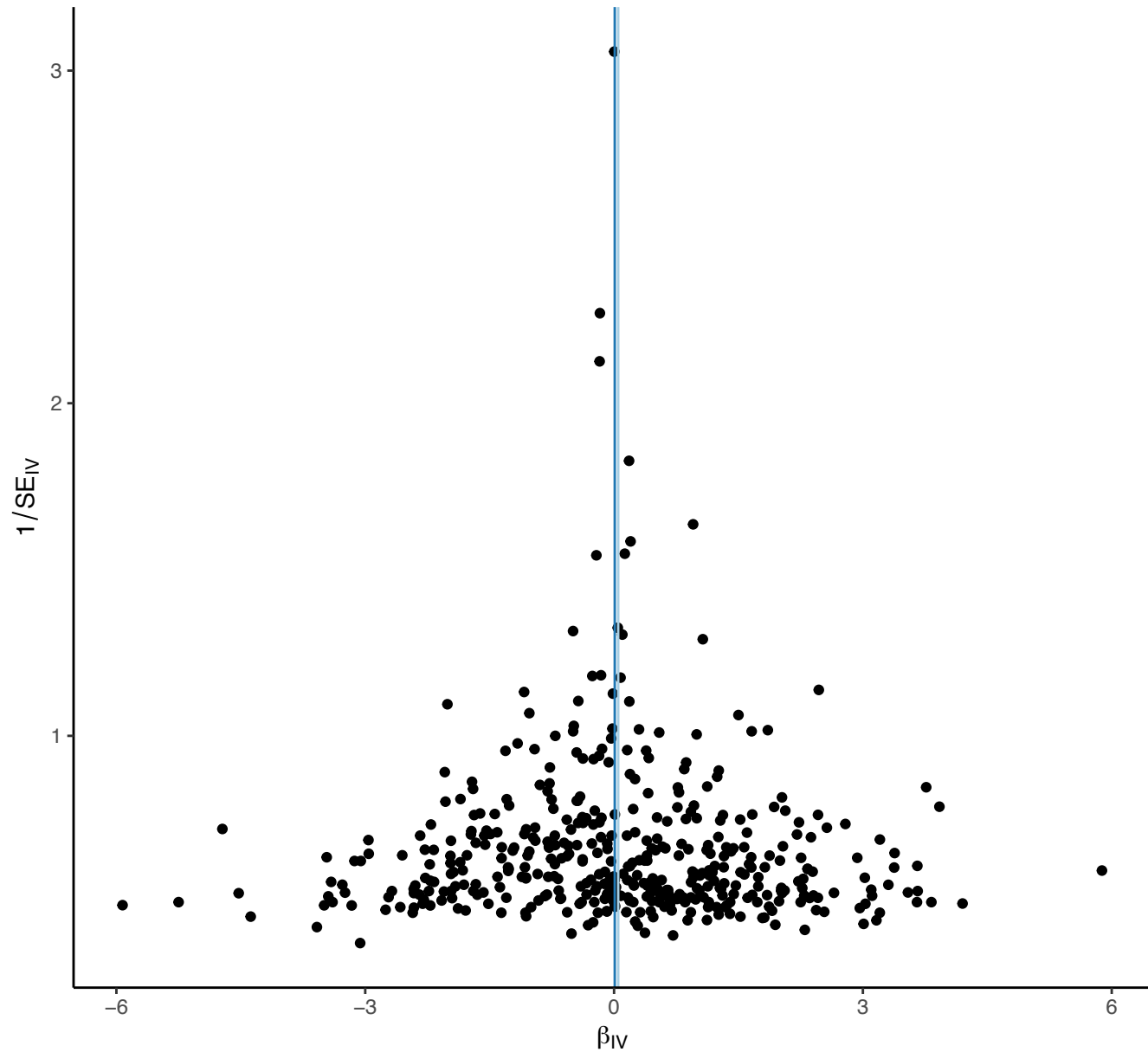
- Inverse variance weighted
- MR Egger
- Simple mode
- Weighted median
- Weighted mode

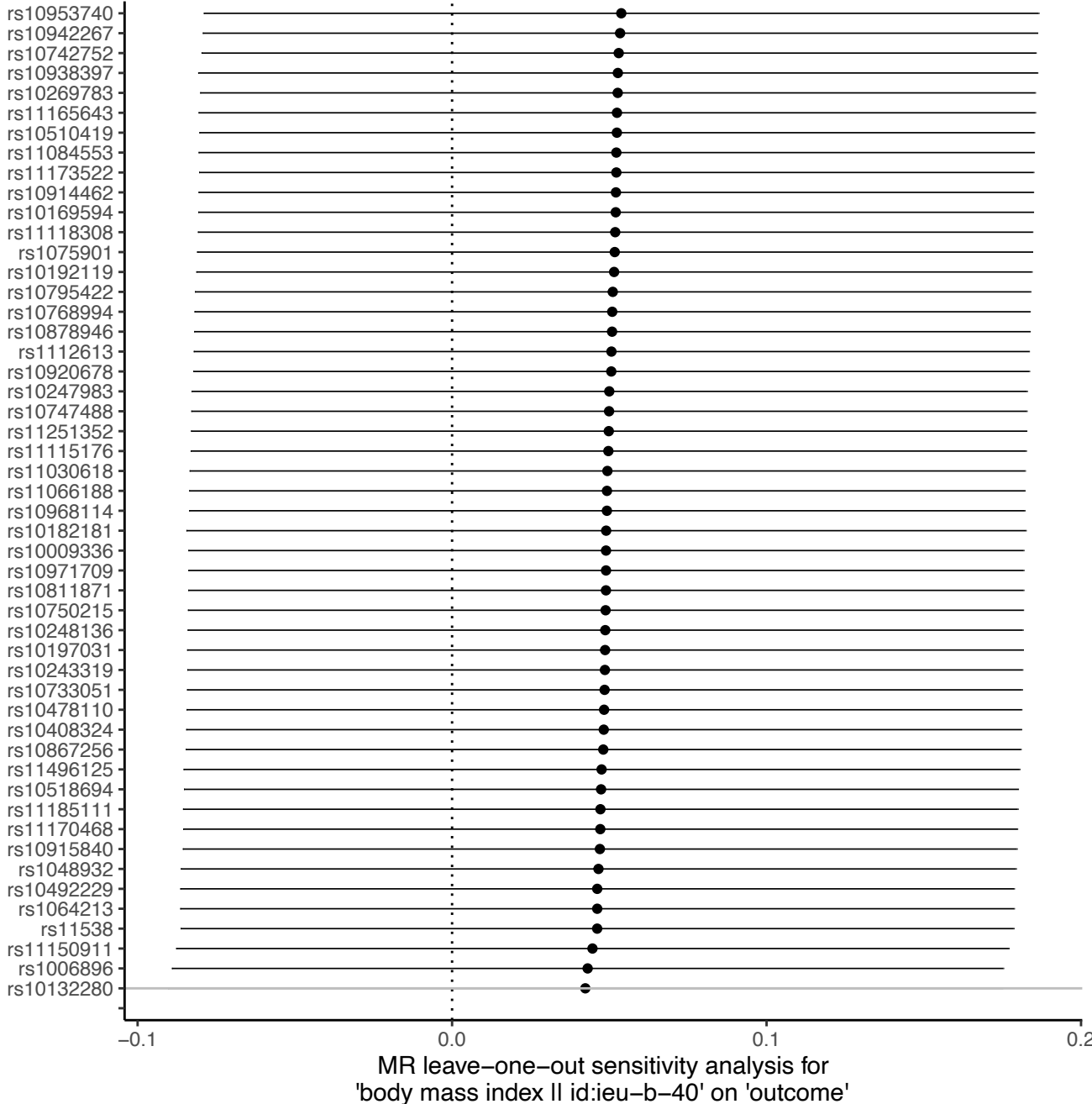


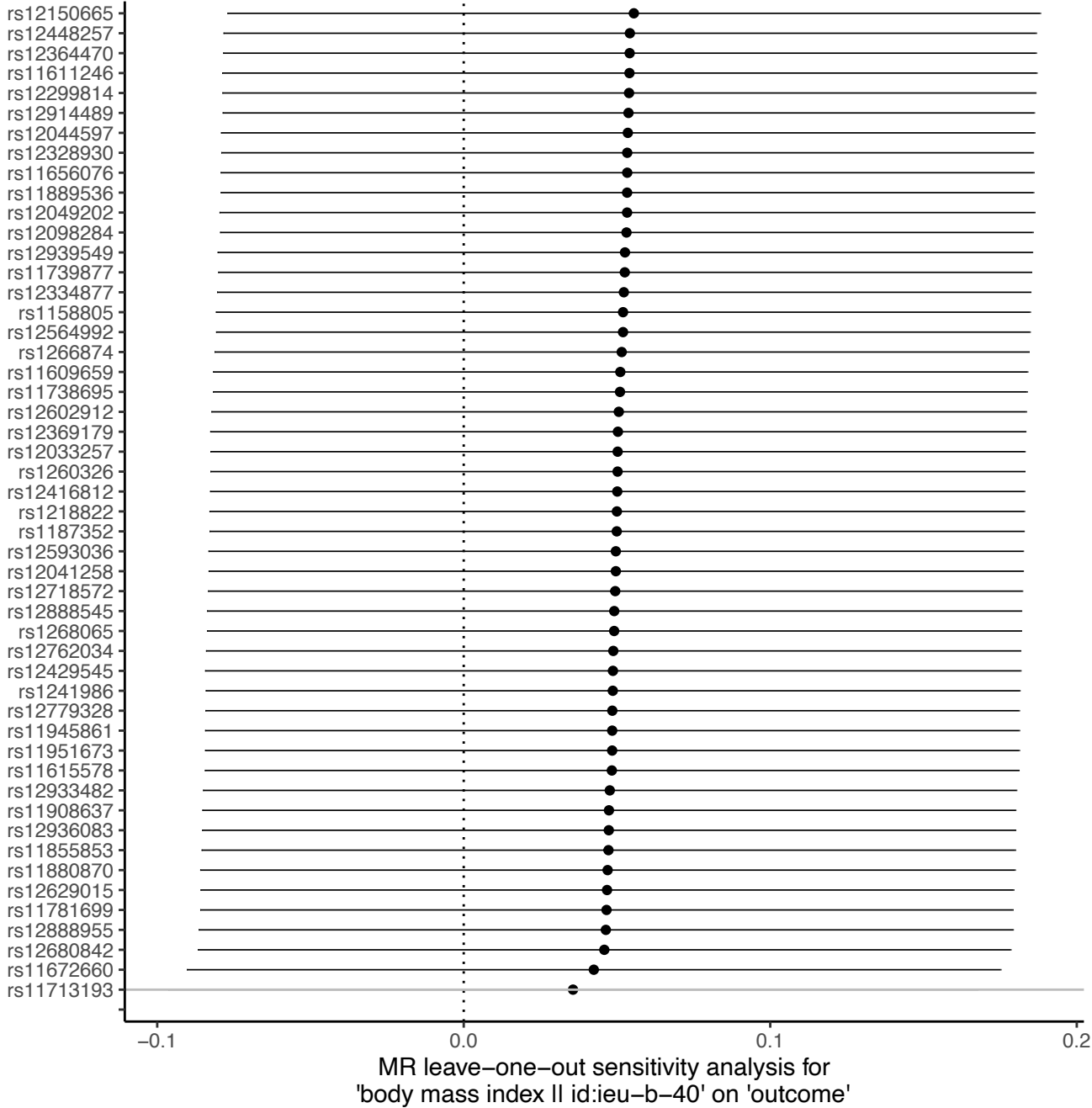
MR Method

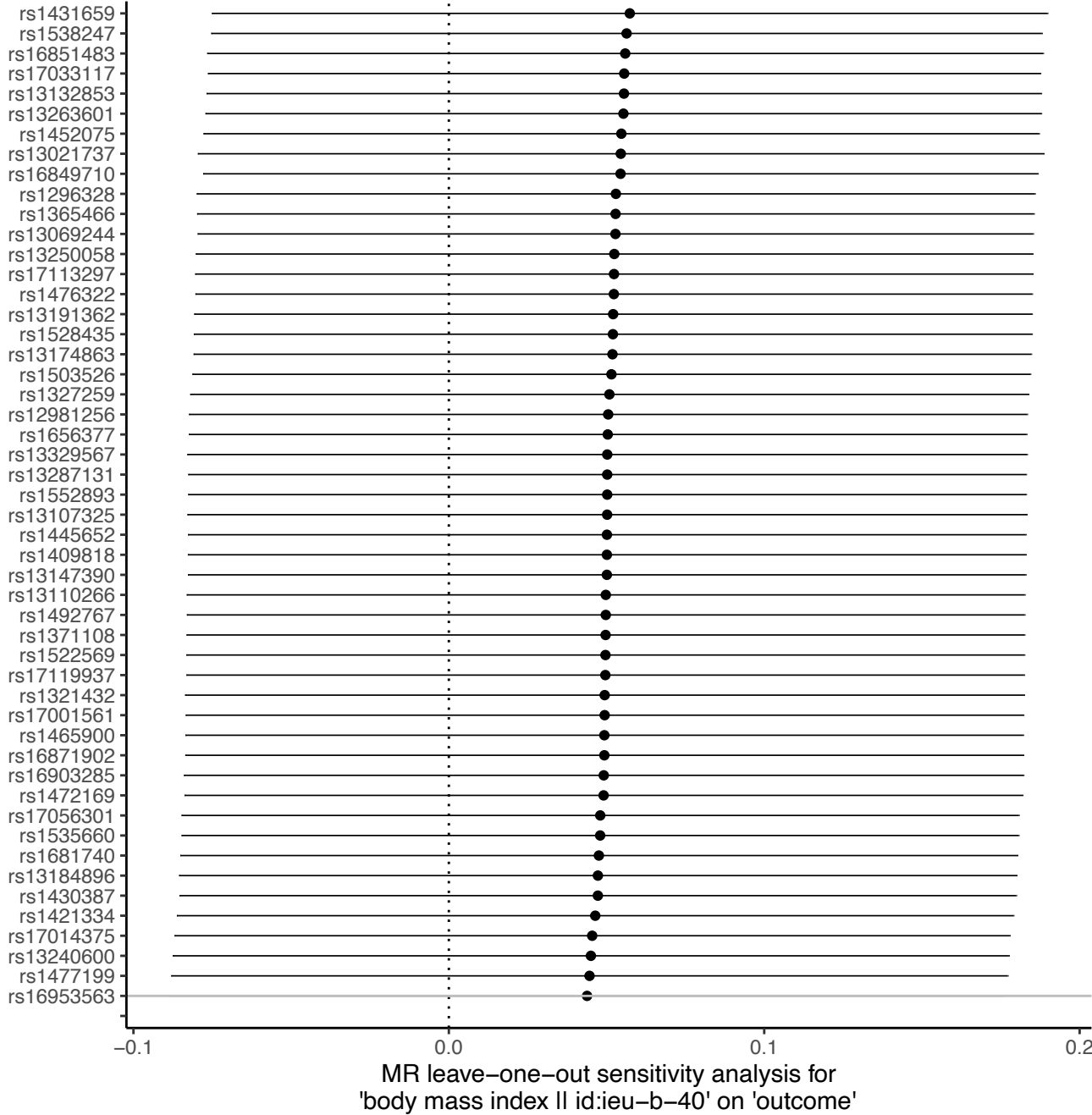
Inverse variance weighted

MR Egger

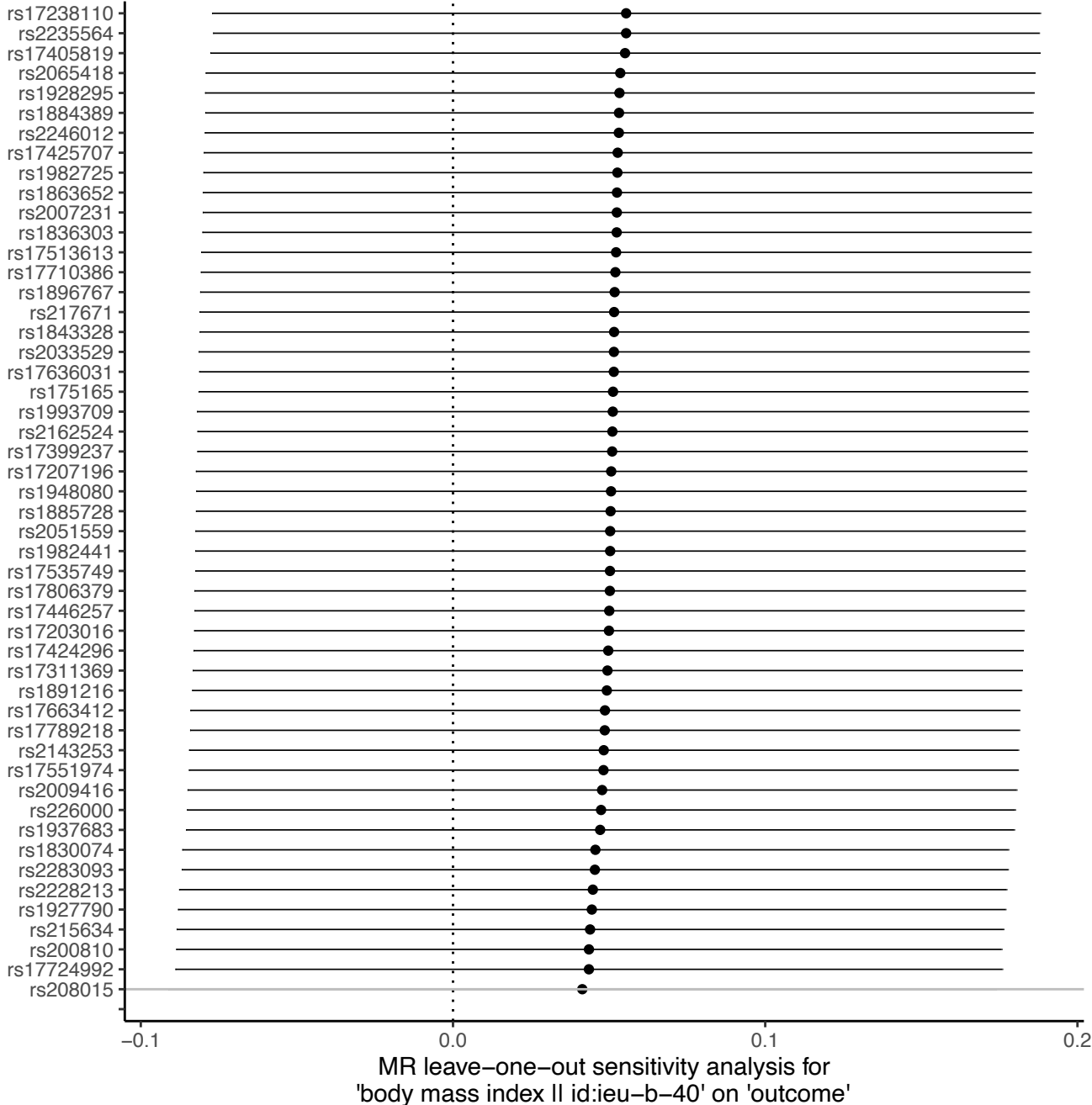


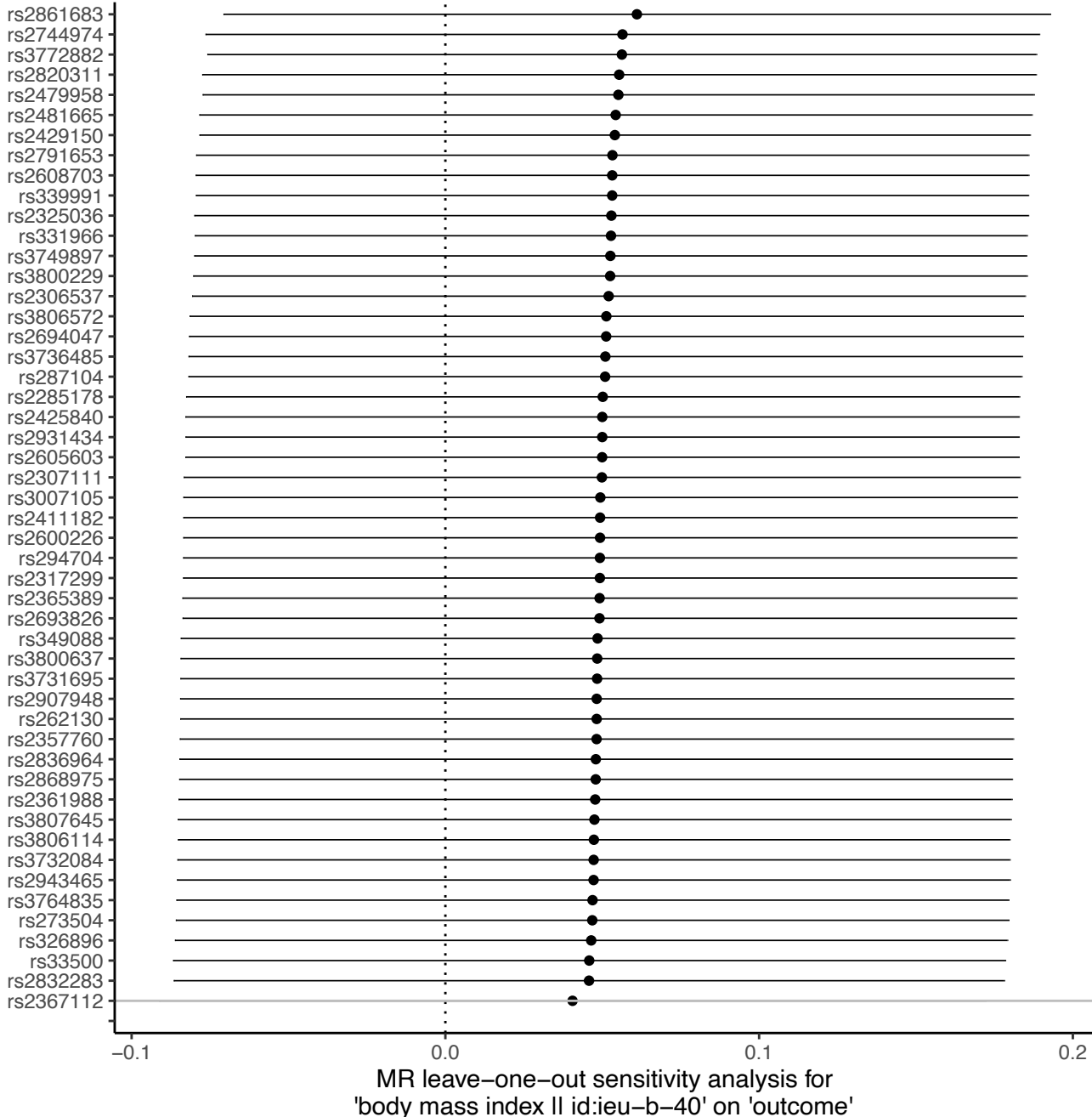


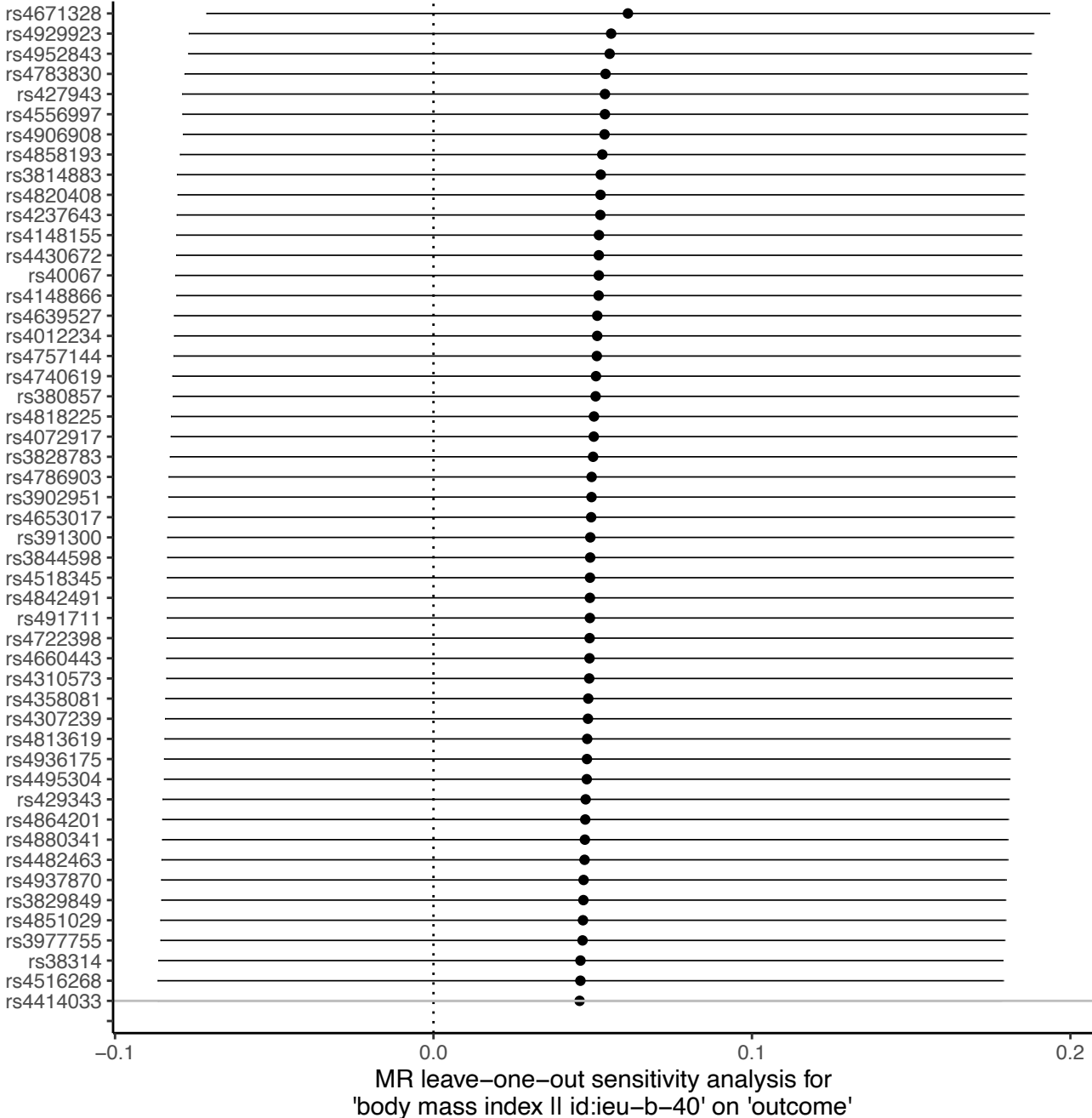


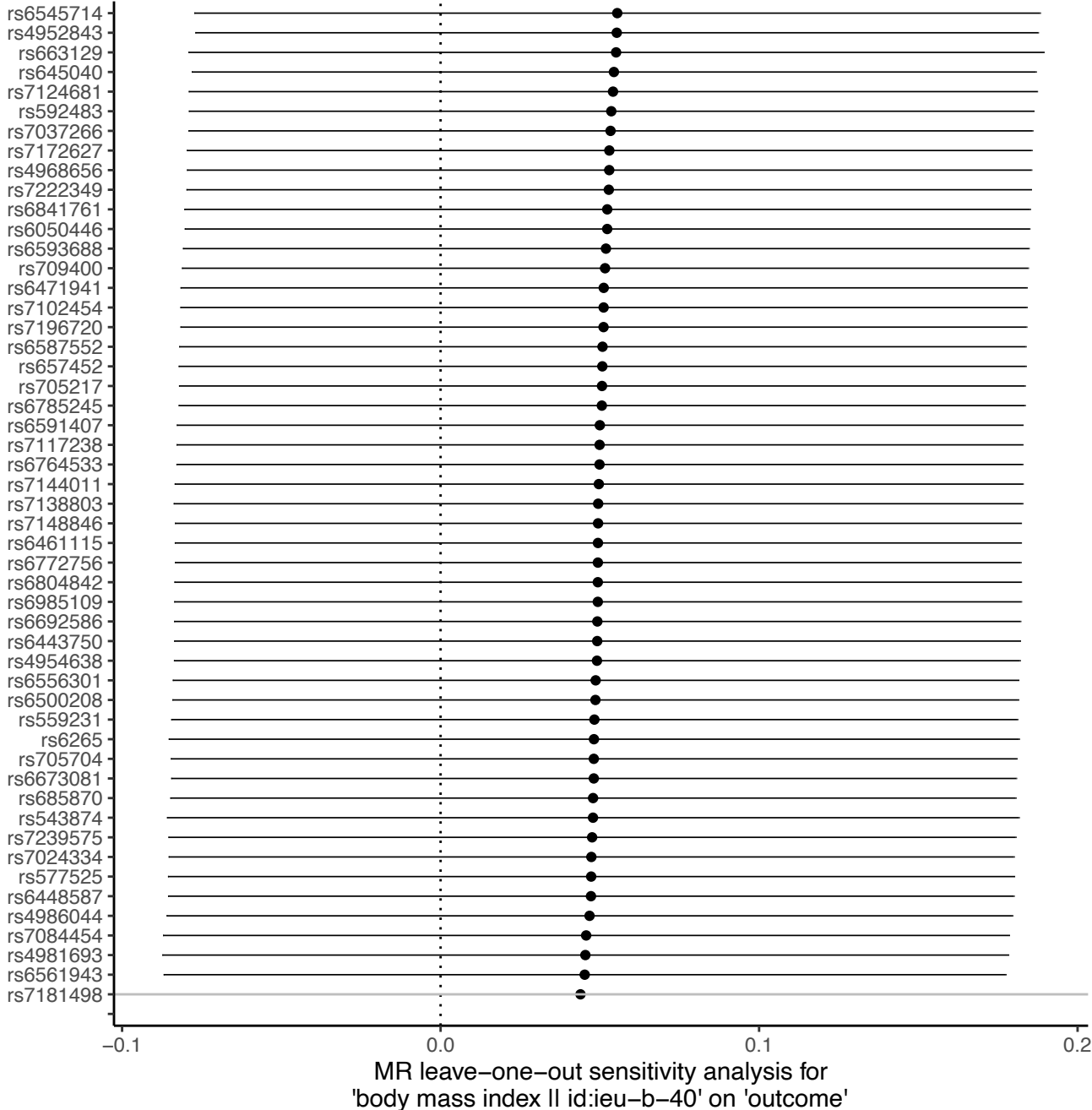


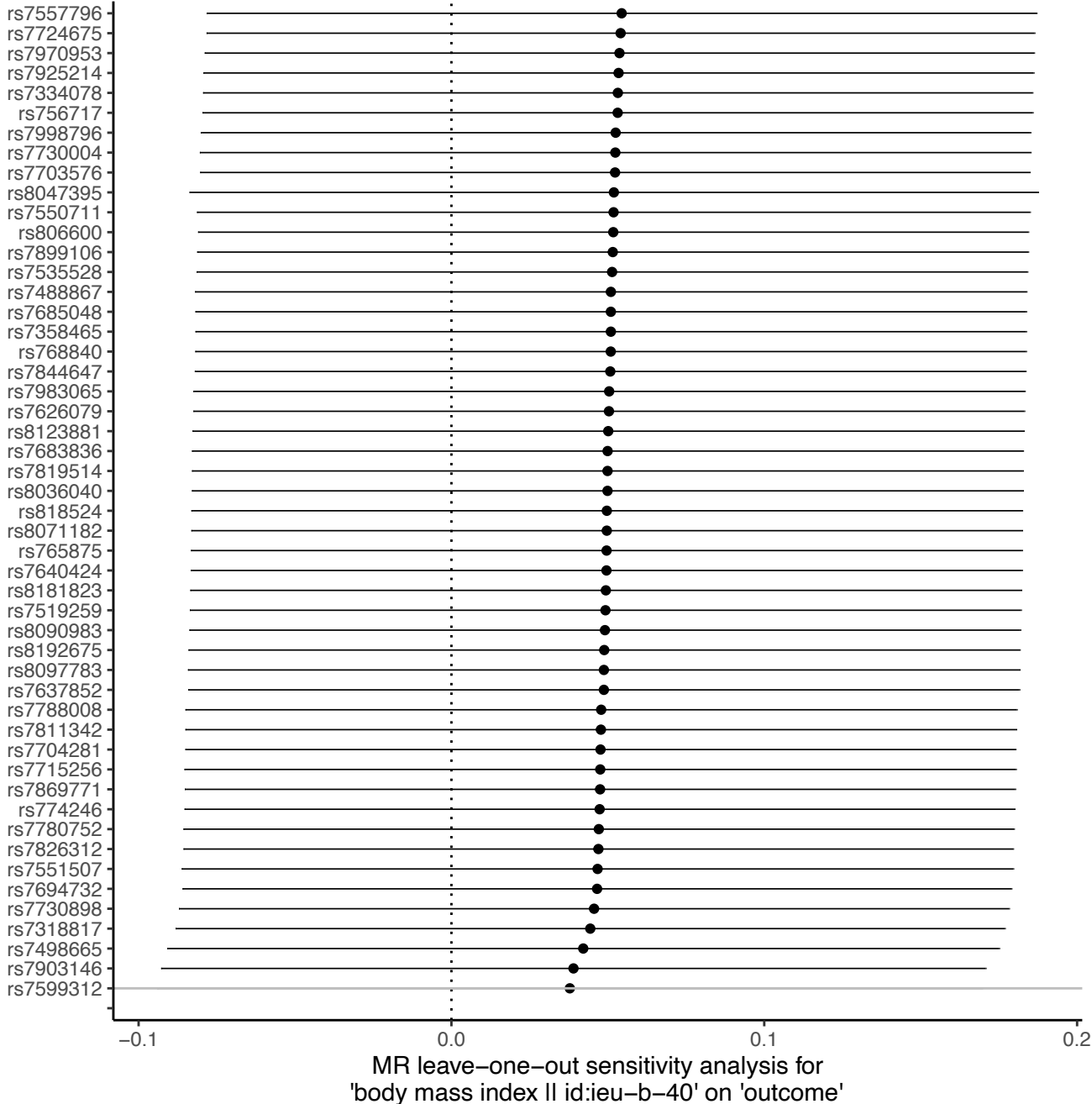


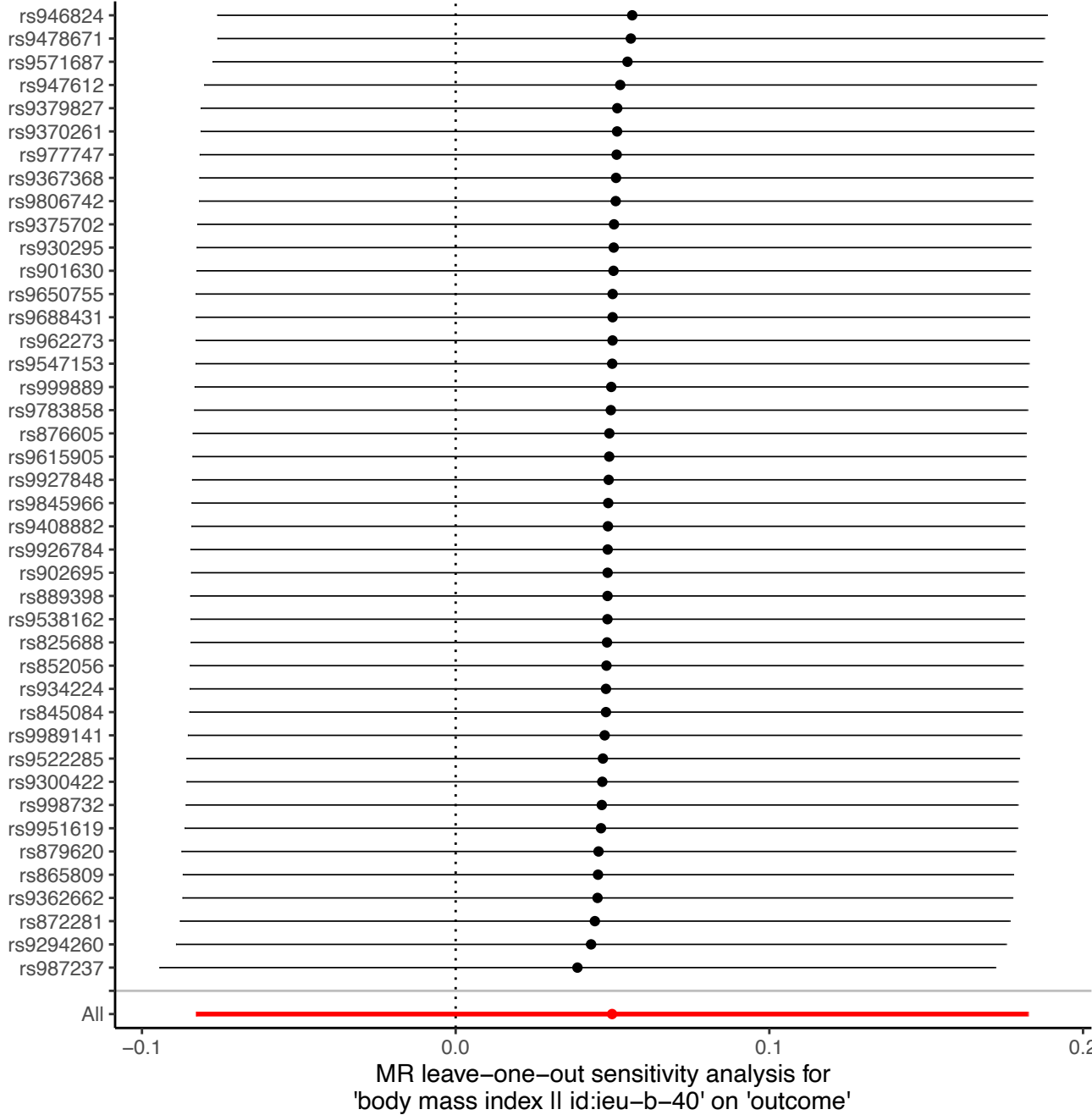




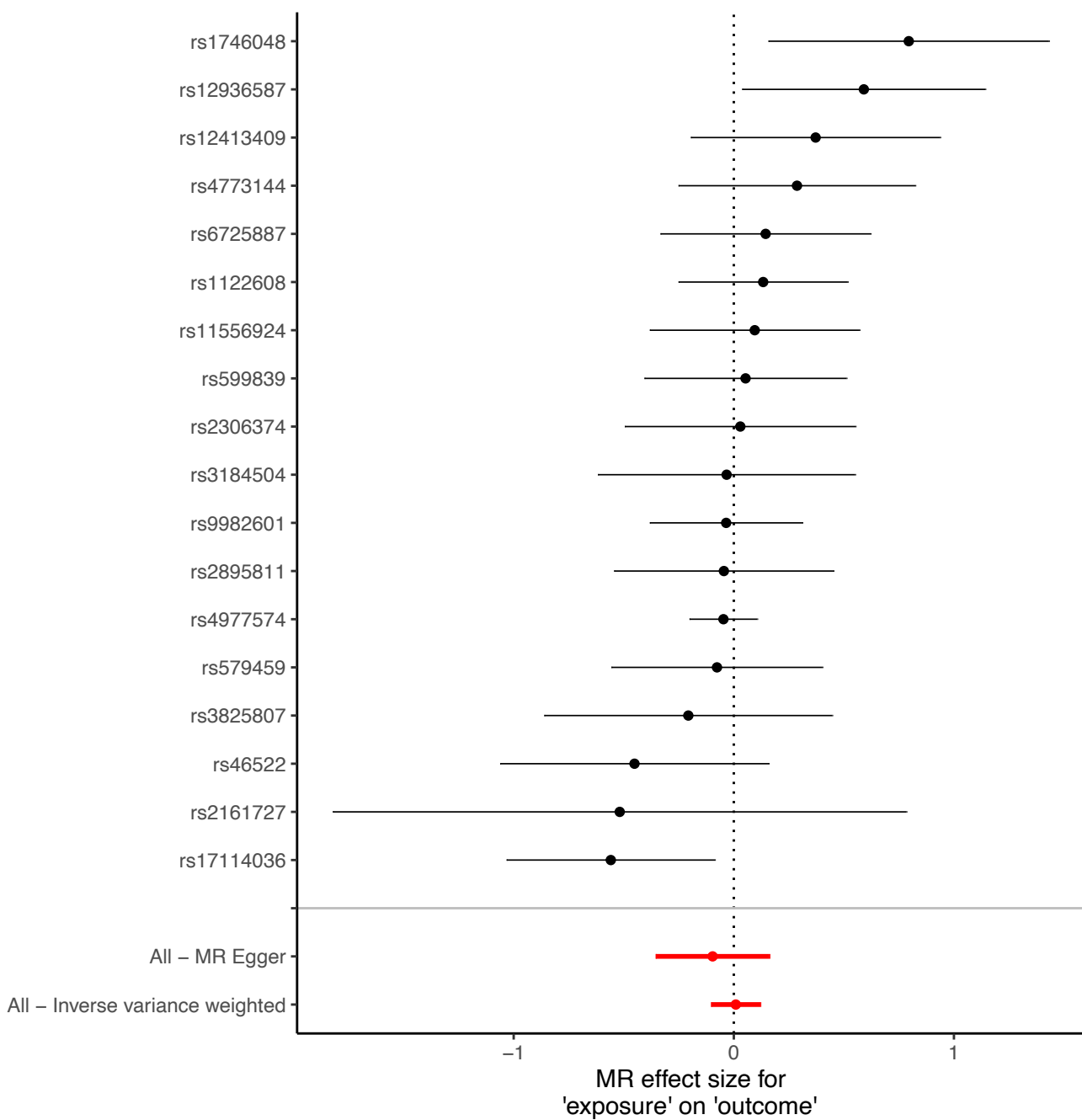








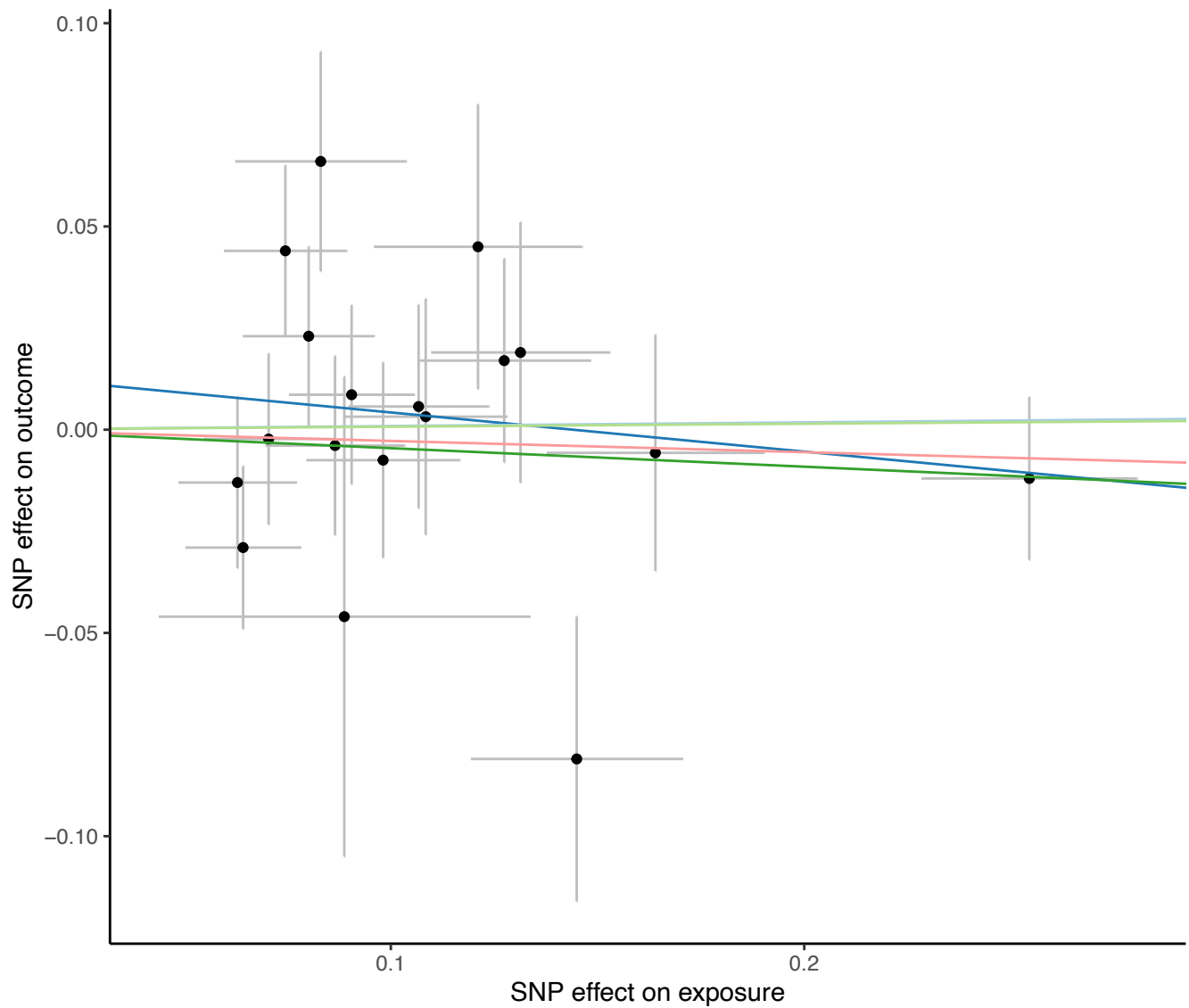
**Exposure: Coronary Artery Disease, Outcome: Corrected Insulin Response**  
**Figures of Forest Plot, Comparison of Different MR Methods, Funnel Plot and Leave-one-out Sensitivity Analysis**





MR Test

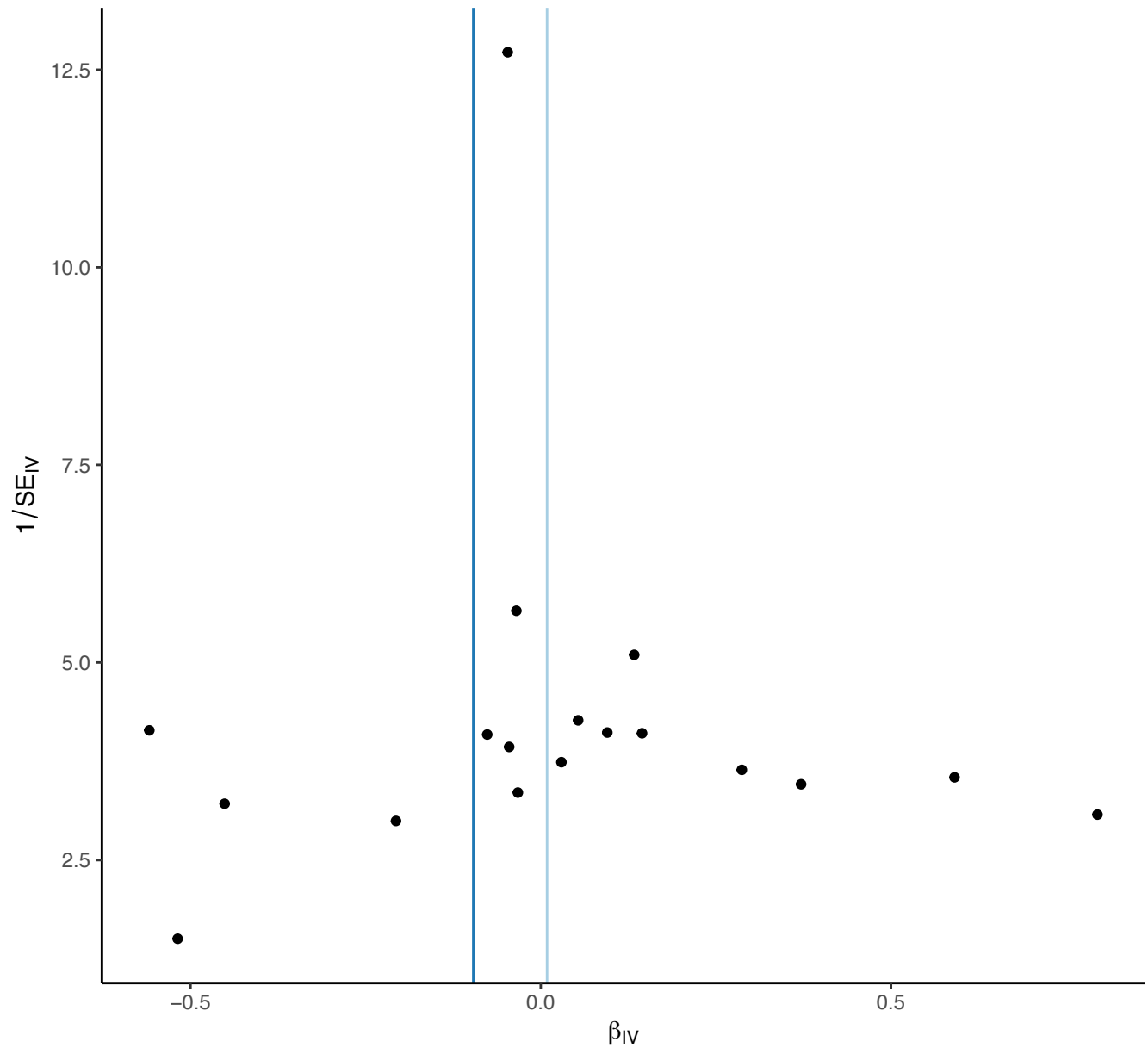
- Inverse variance weighted
- MR Egger
- Simple mode
- Weighted median
- Weighted mode

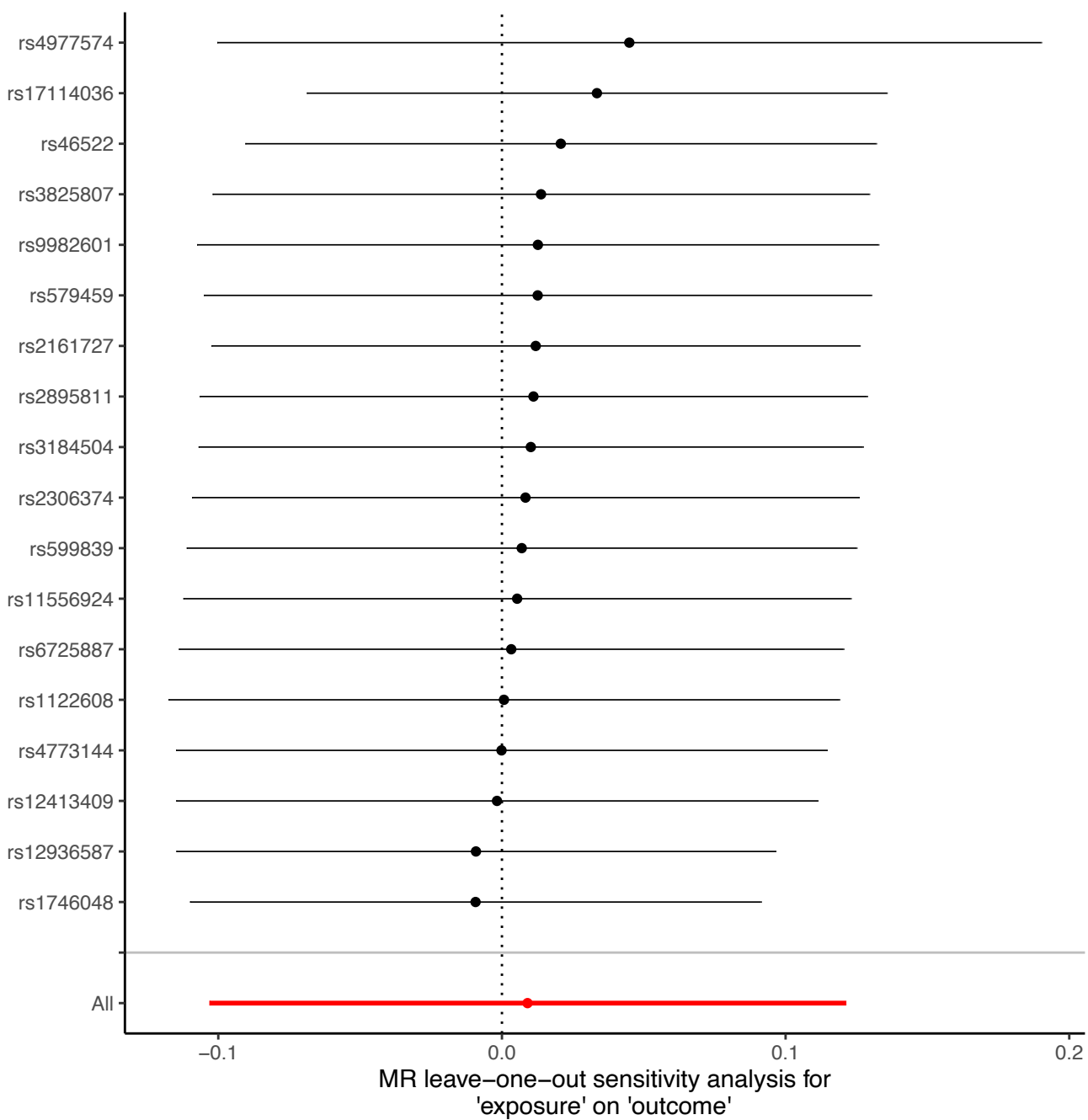


MR Method

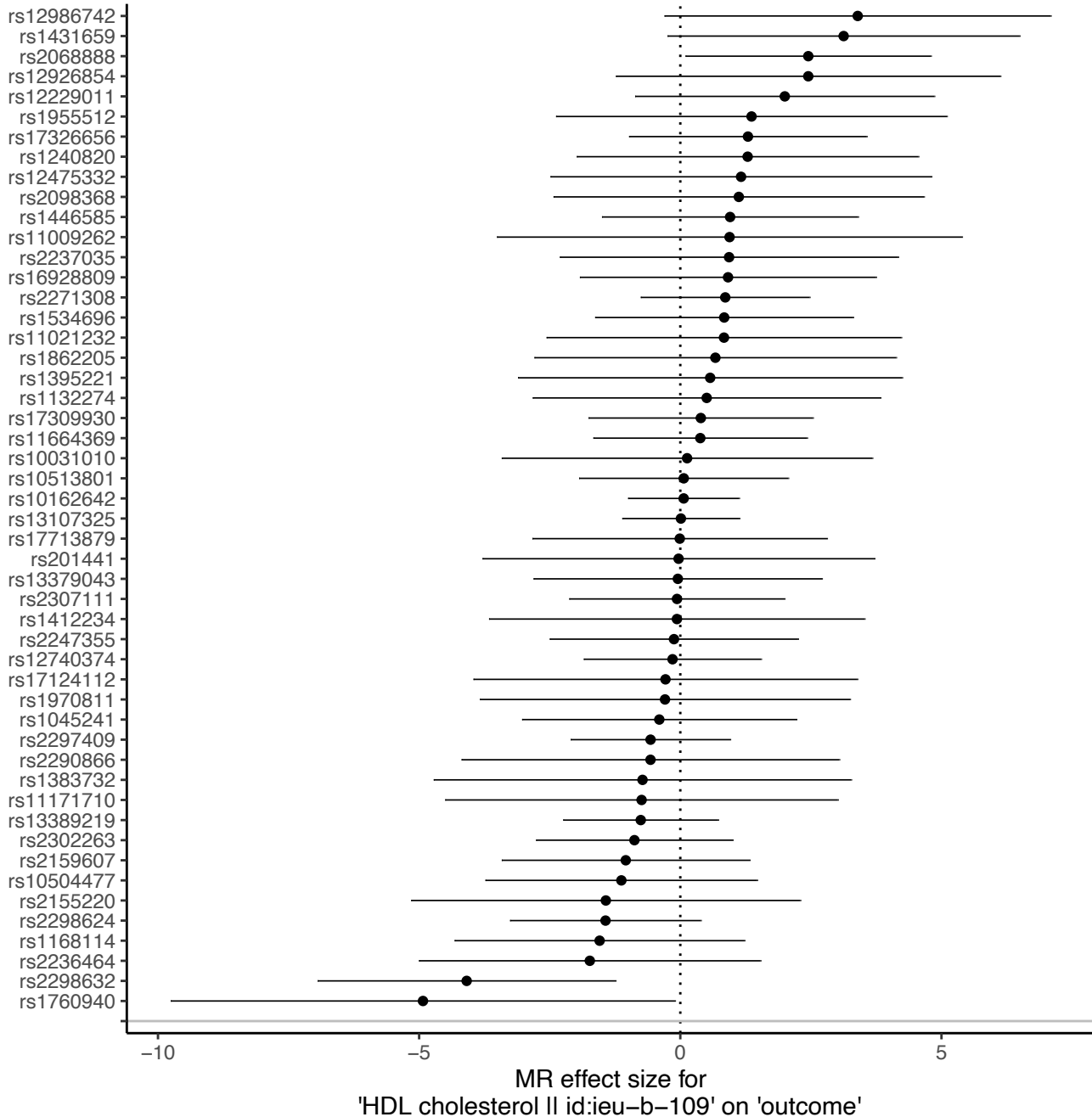
Inverse variance weighted

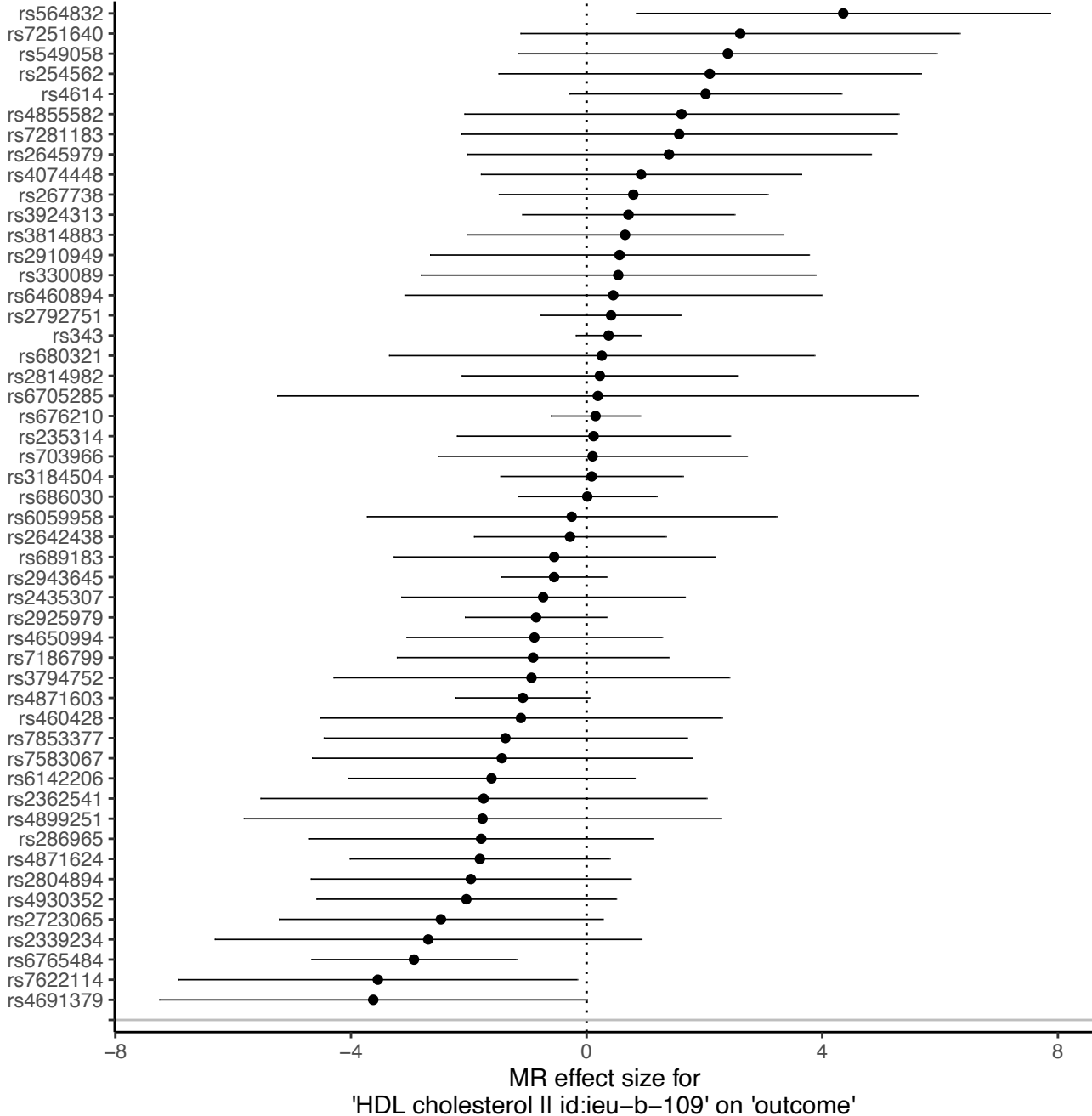
MR Egger

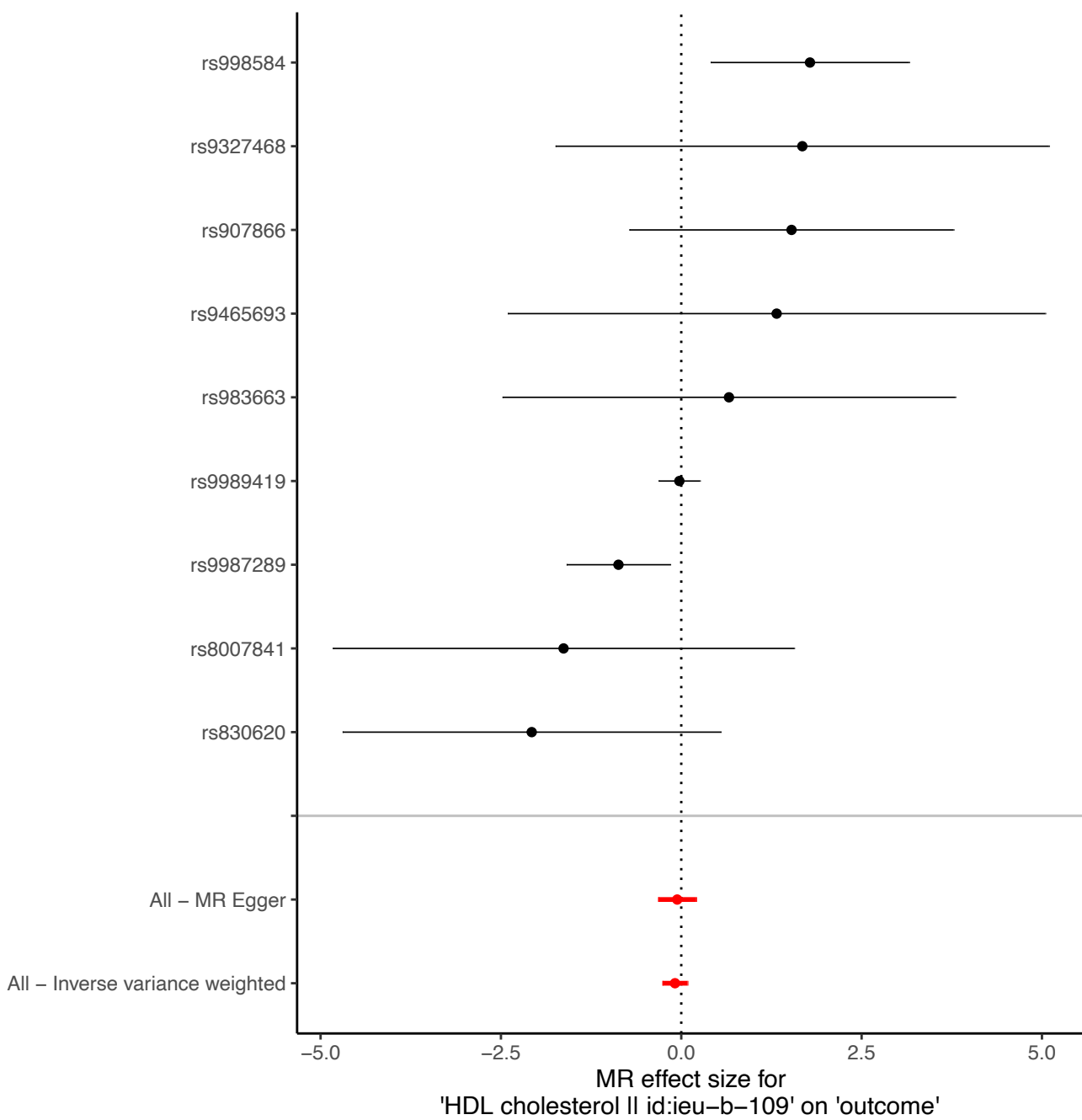




**Exposure: High Density Lipoprotein, Outcome: Corrected Insulin Response**  
**Figures of Forest Plot, Comparison of Different MR Methods, Funnel Plot and Leave-one-out Sensitivity Analysis**

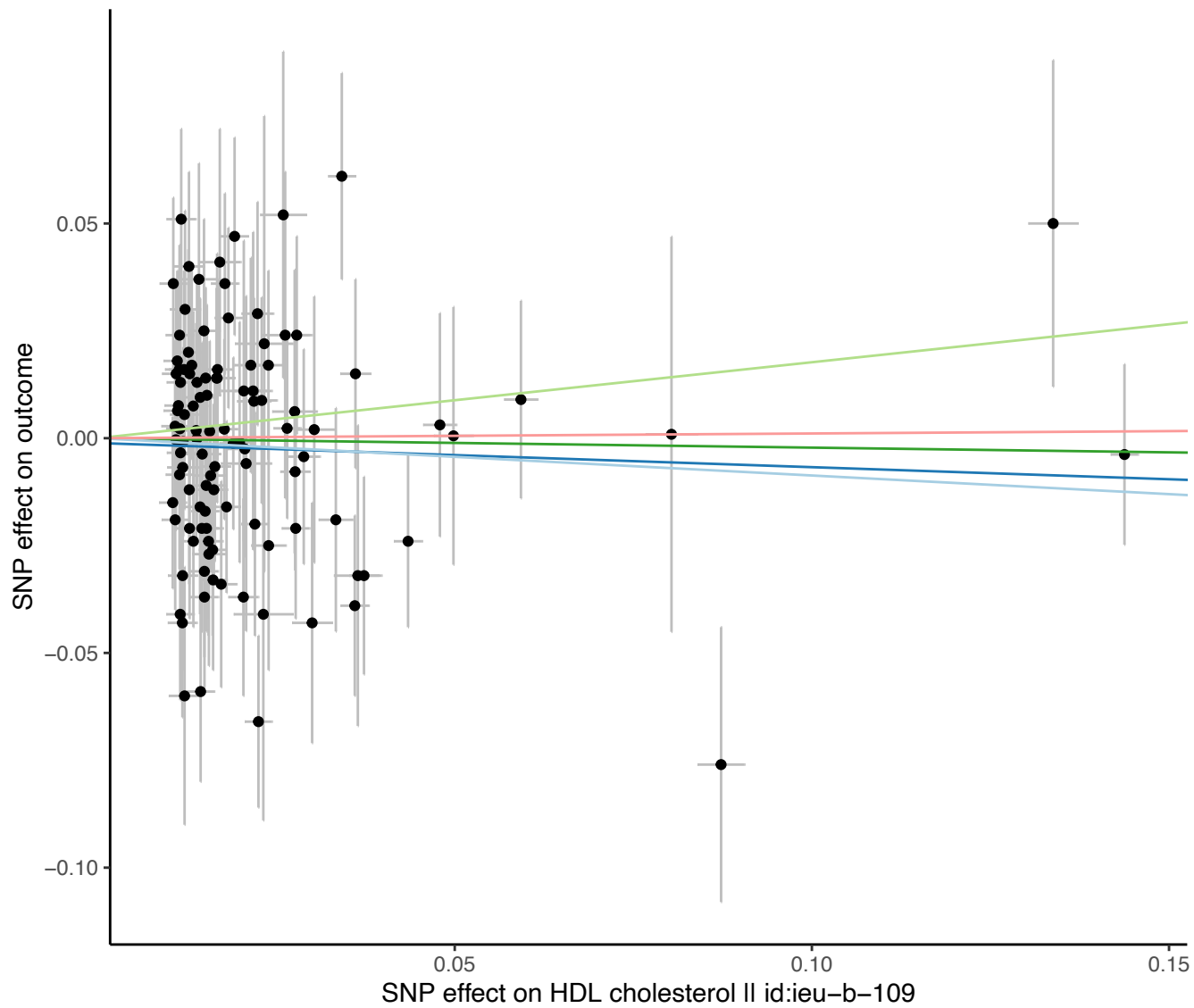






MR Test

- Inverse variance weighted
- MR Egger
- Simple mode
- Weighted median
- Weighted mode

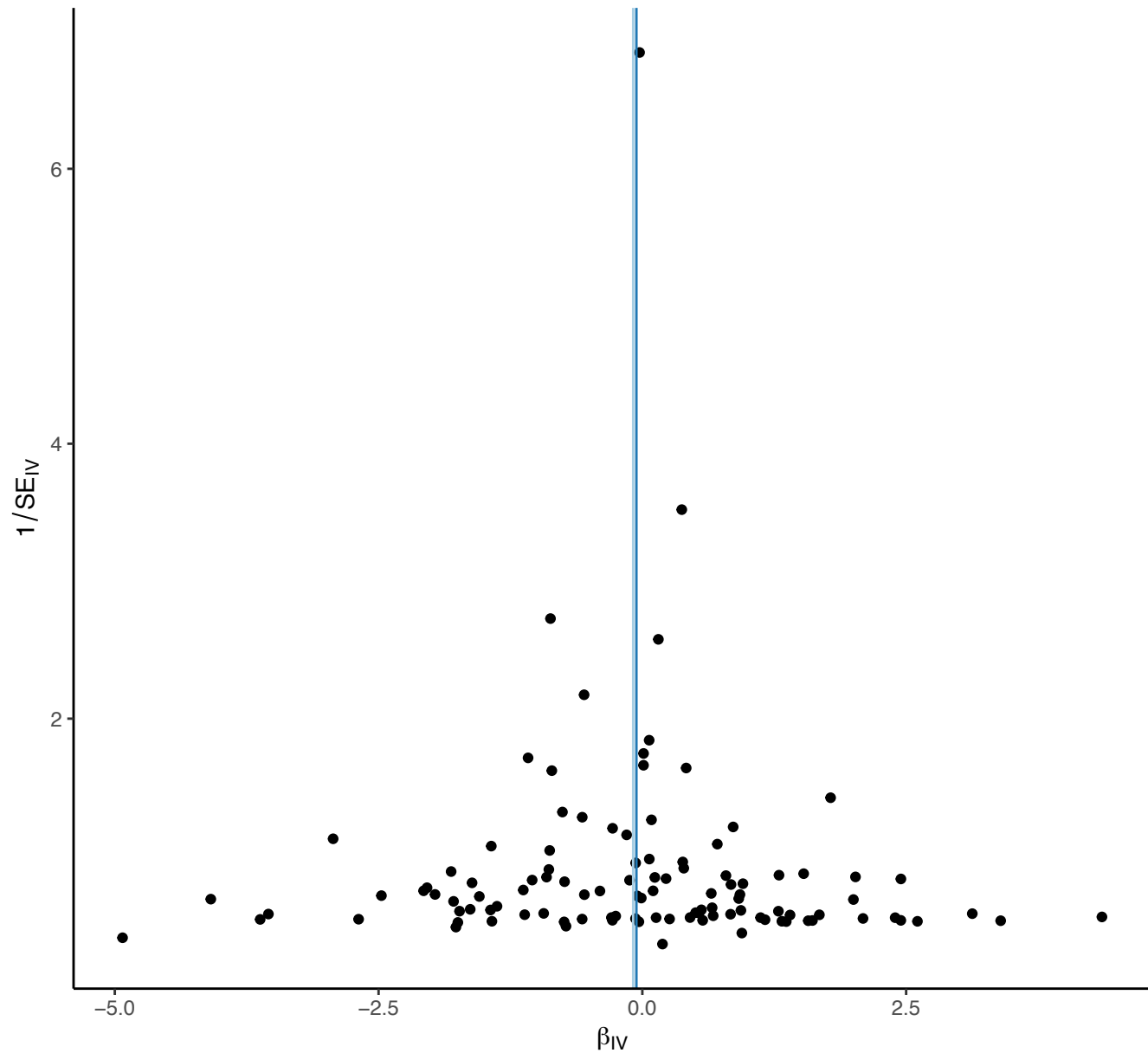


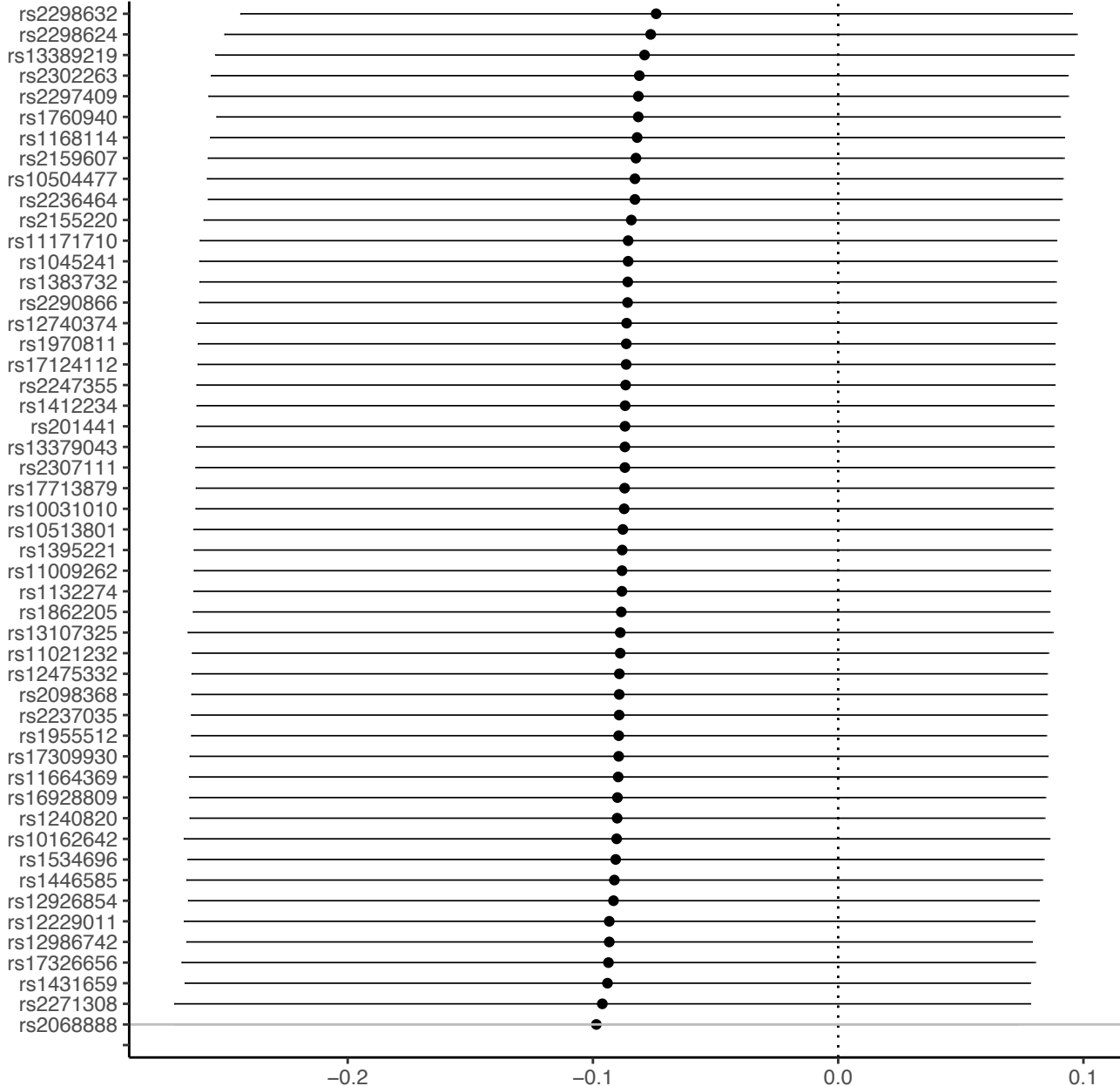


MR Method

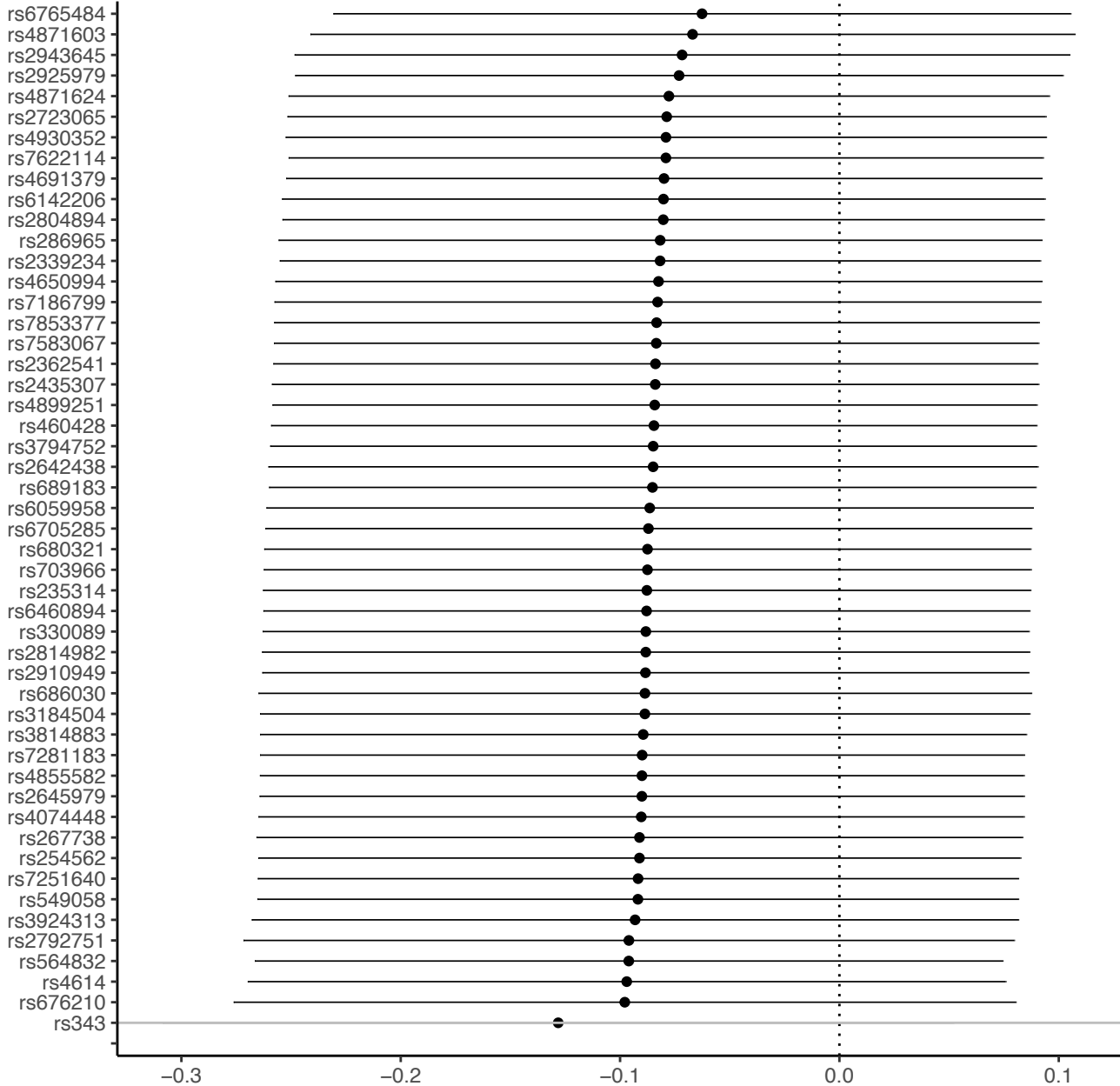
Inverse variance weighted

MR Egger

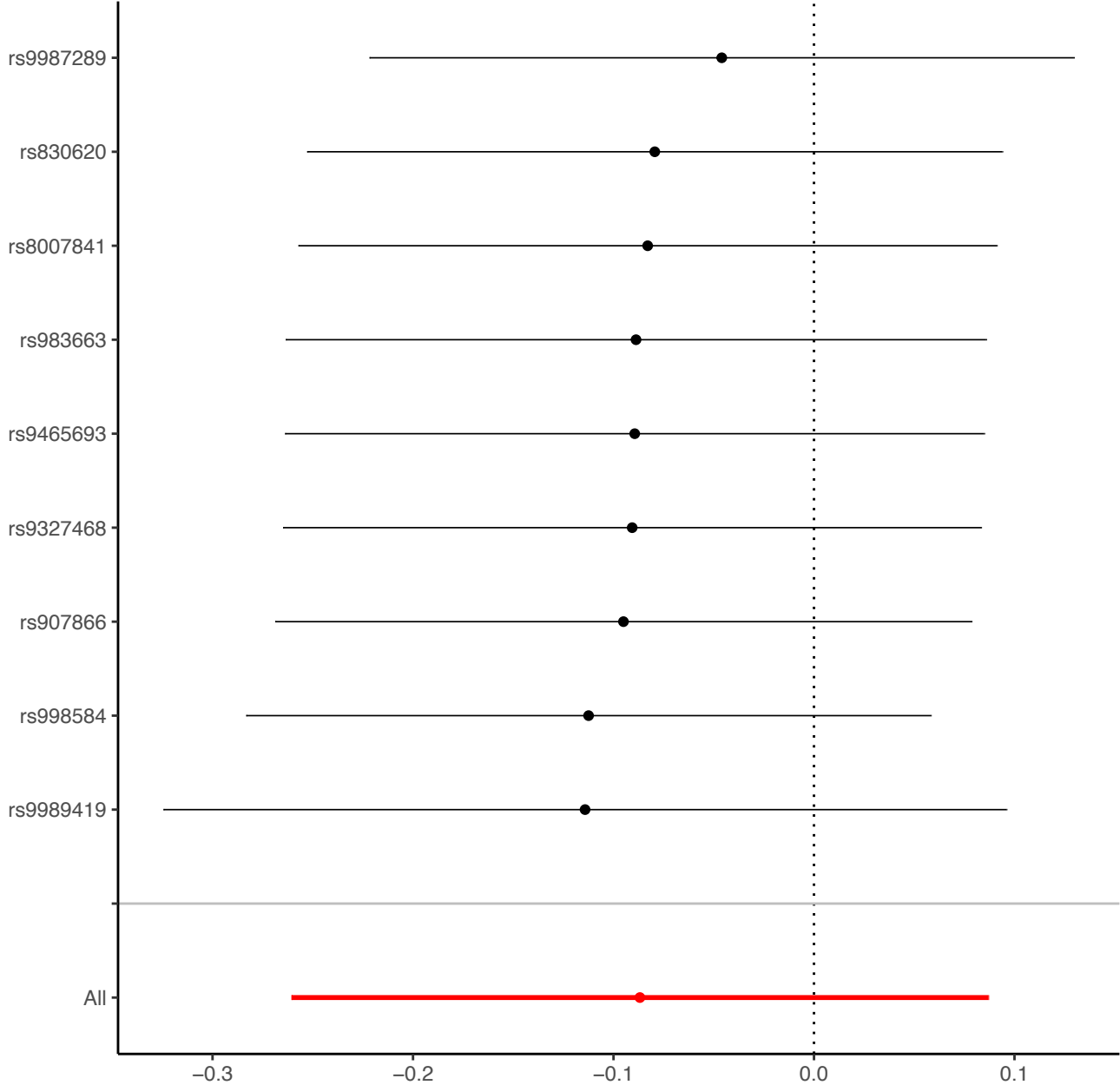




MR leave-one-out sensitivity analysis for  
'HDL cholesterol II id:ieu-b-109' on 'outcome'

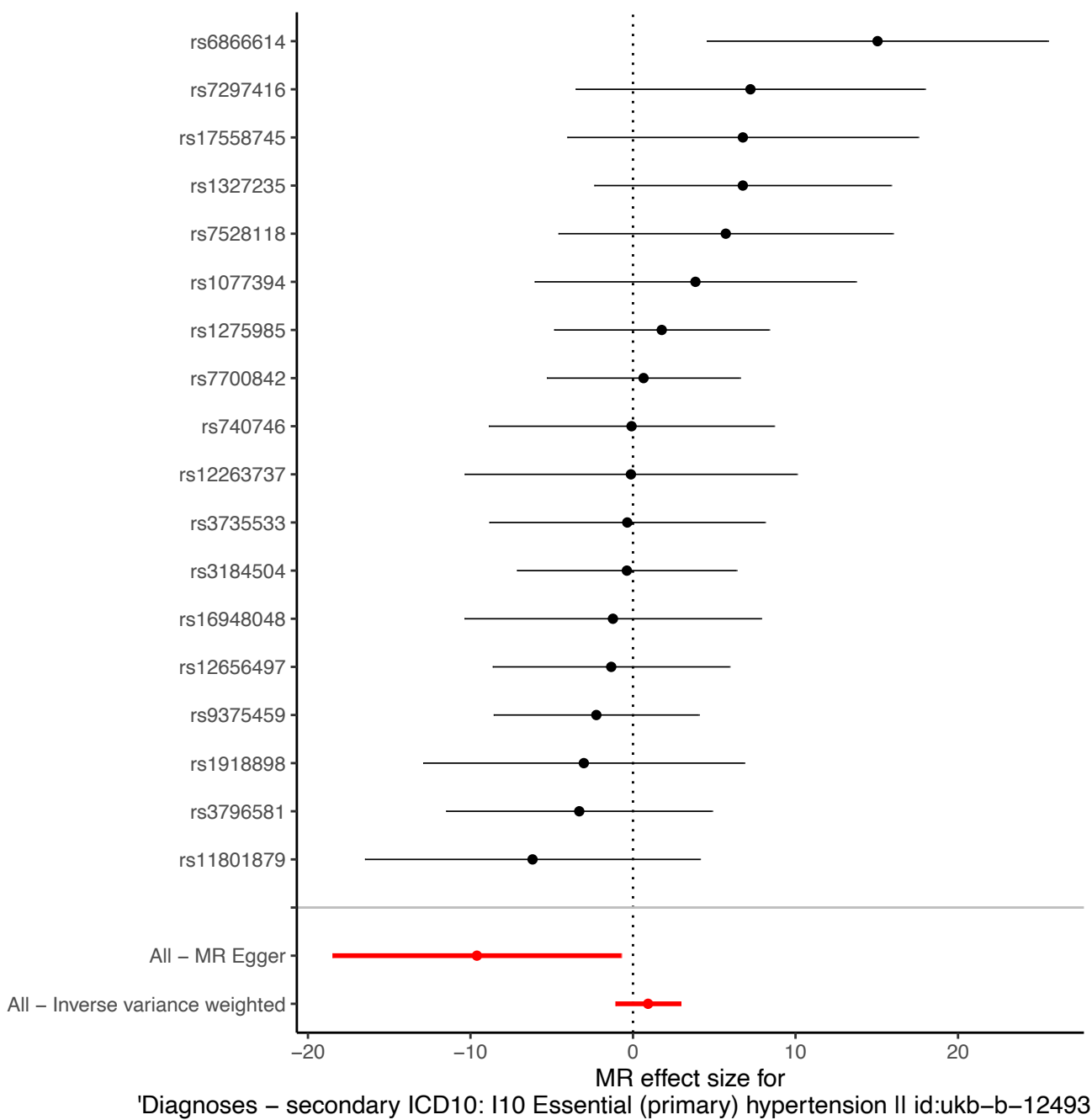


MR leave-one-out sensitivity analysis for  
'HDL cholesterol II id:ieu-b-109' on 'outcome'



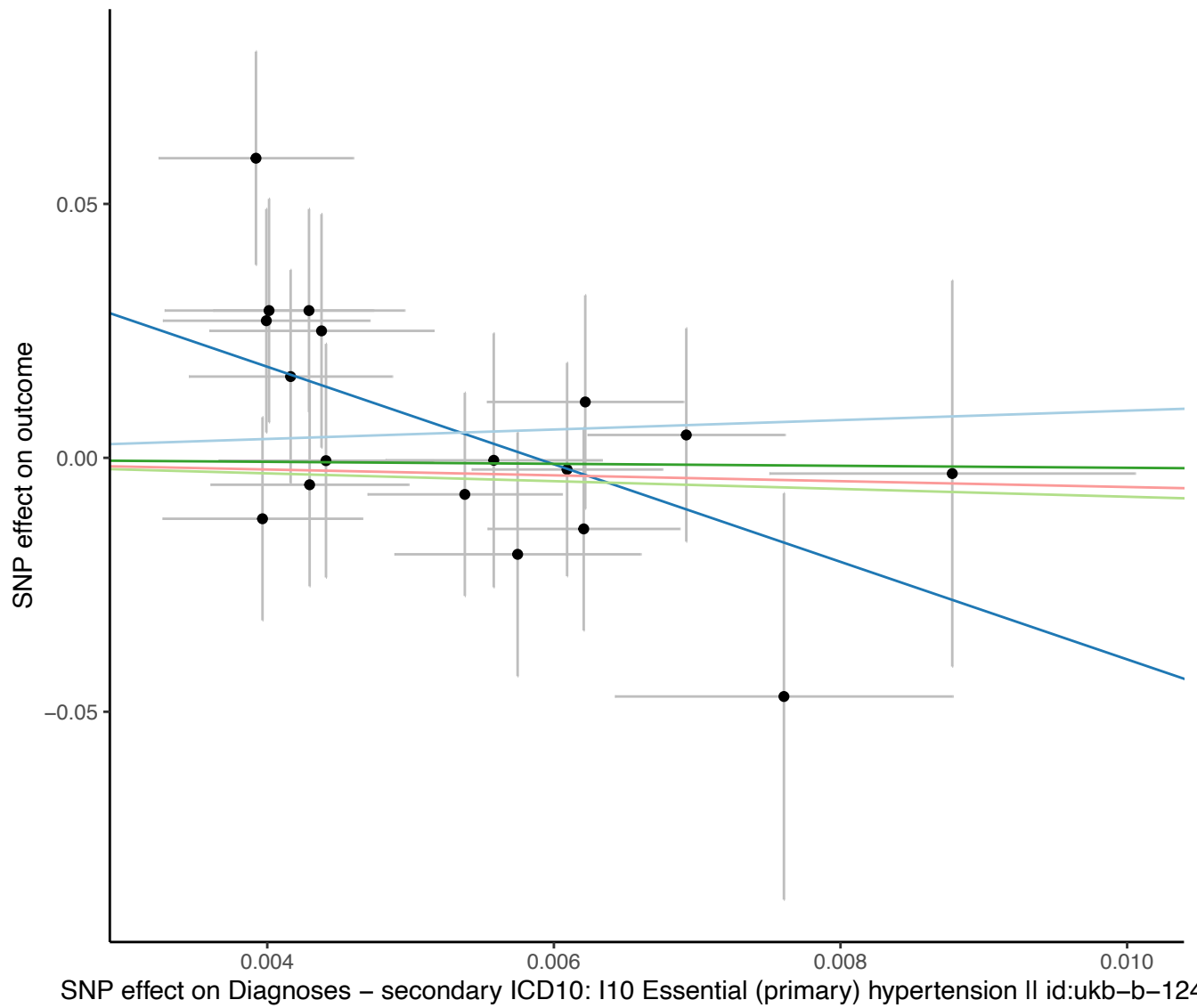
MR leave-one-out sensitivity analysis for  
'HDL cholesterol II id:ieu-b-109' on 'outcome'

**Exposure: Hypertension, Outcome: Corrected Insulin Response**  
**Figures of Forest Plot, Comparison of Different MR Methods, Funnel Plot and Leave-one-out Sensitivity Analysis**



MR Test

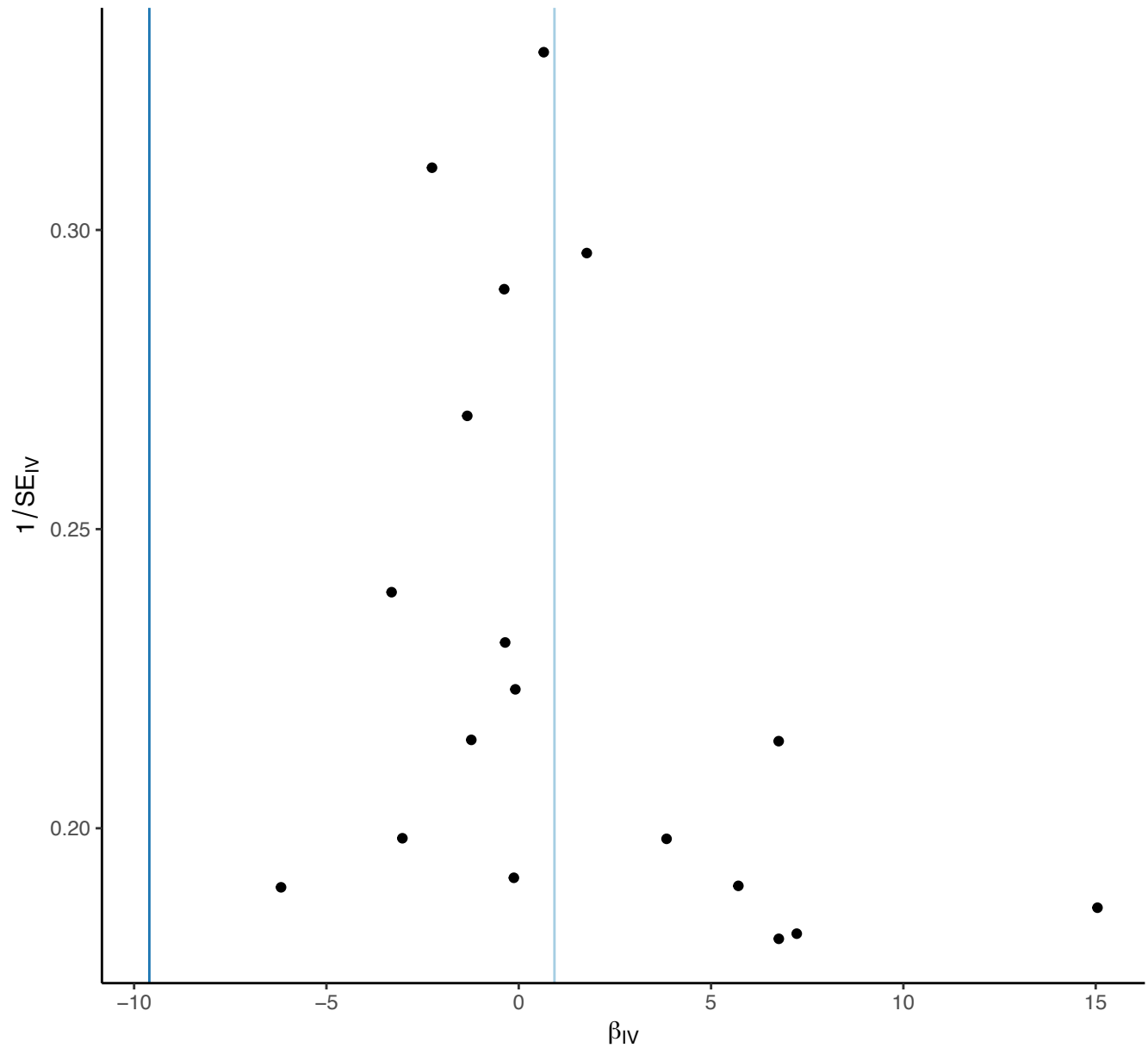
- Inverse variance weighted
- MR Egger
- Simple mode
- Weighted median
- Weighted mode



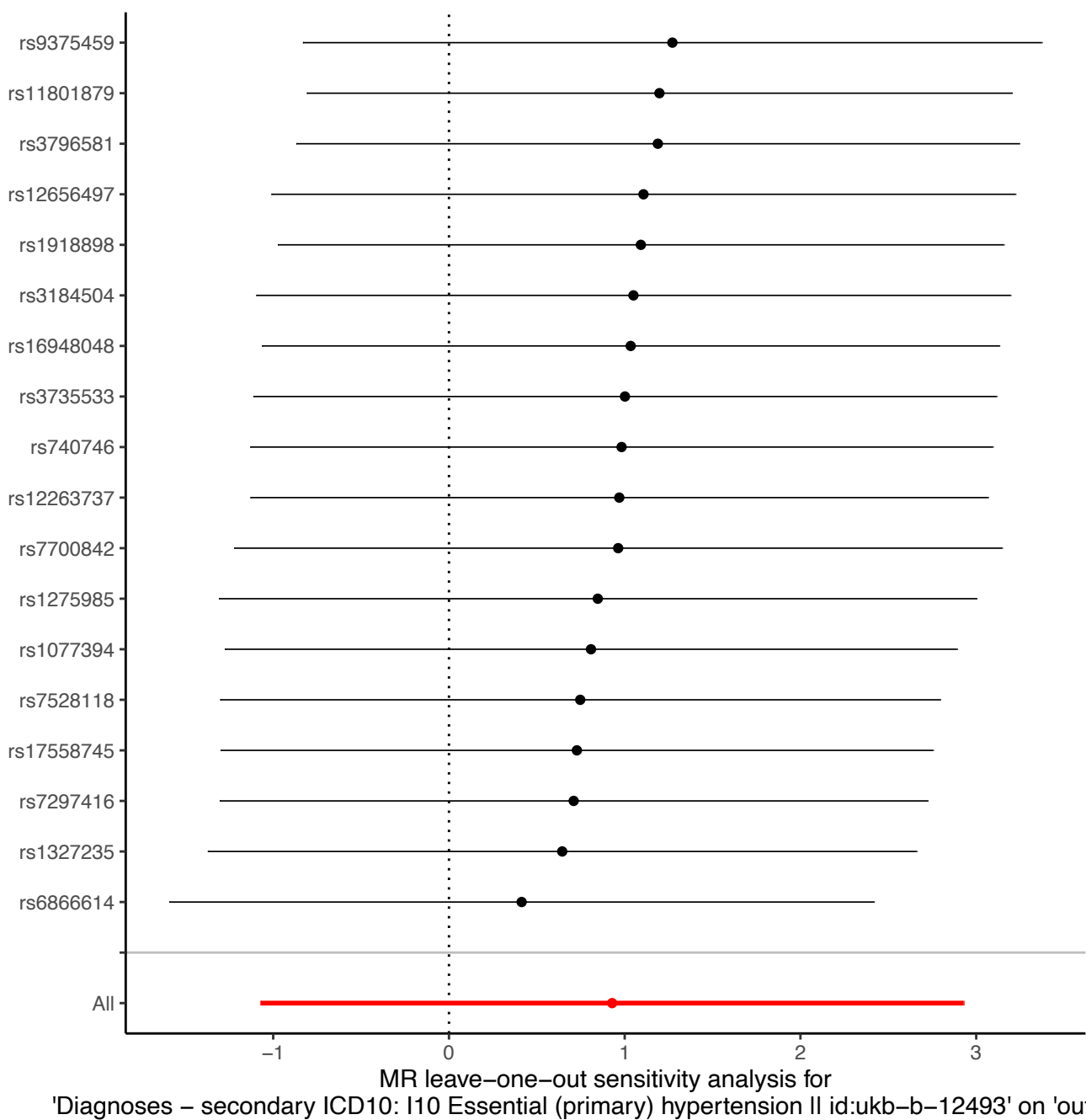
MR Method

Inverse variance weighted

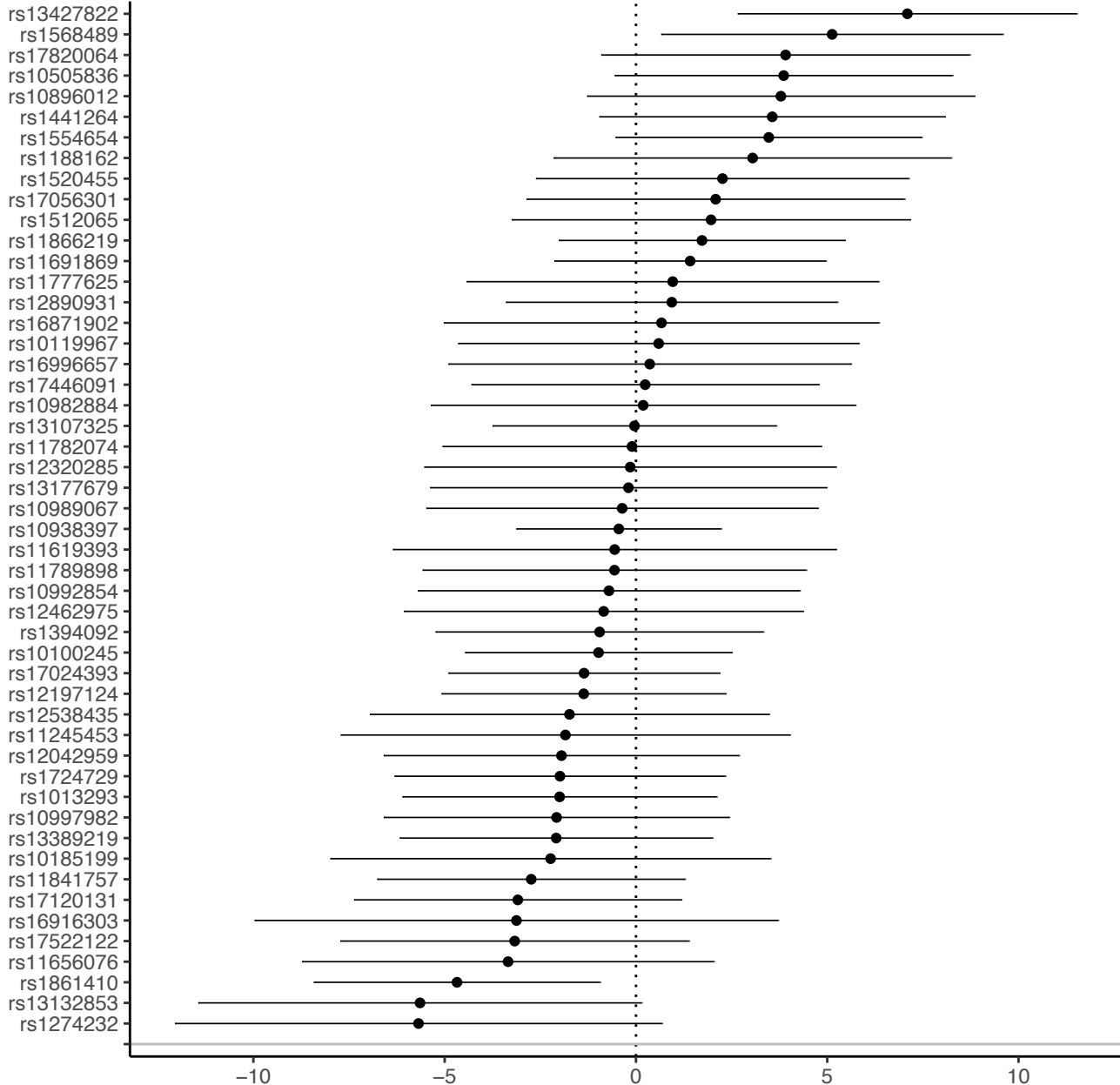
MR Egger



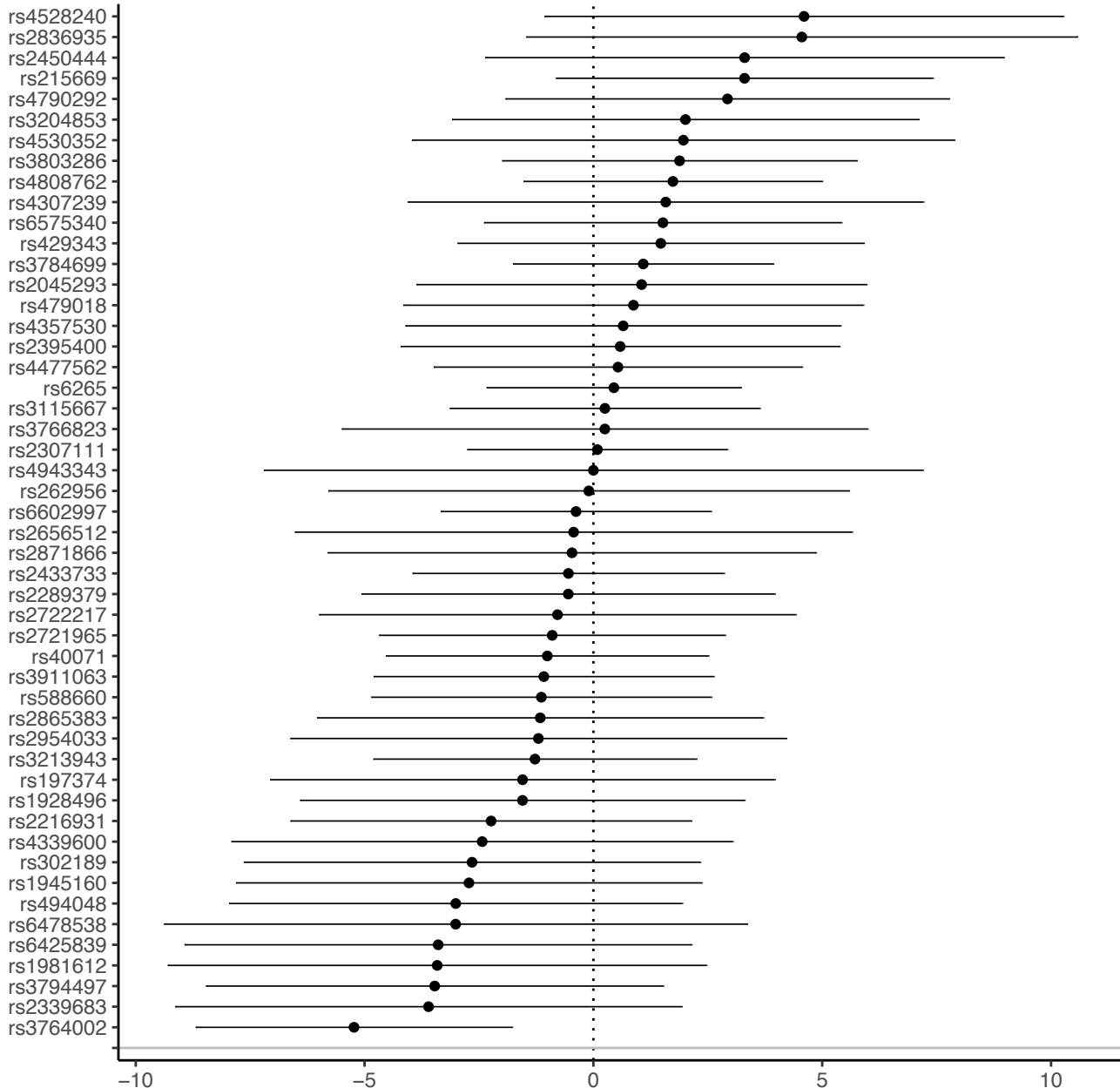




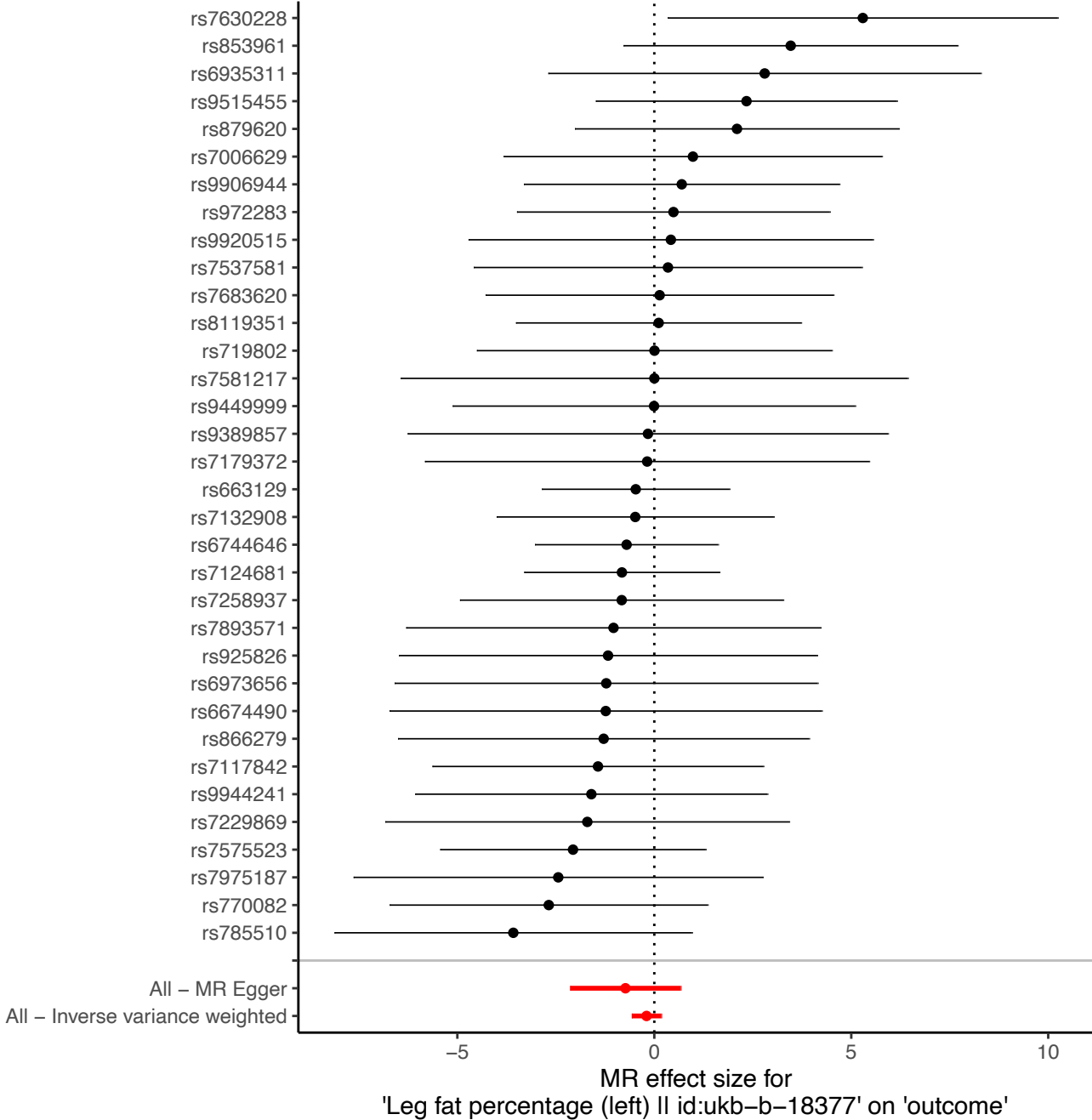
**Exposure: Leg Fat Percent - Left, Outcome: Corrected Insulin Response**  
**Figures of Forest Plot, Comparison of Different MR Methods, Funnel Plot and Leave-one-out Sensitivity Analysis**



MR effect size for  
'Leg fat percentage (left) || id:ukb-b-18377' on 'outcome'

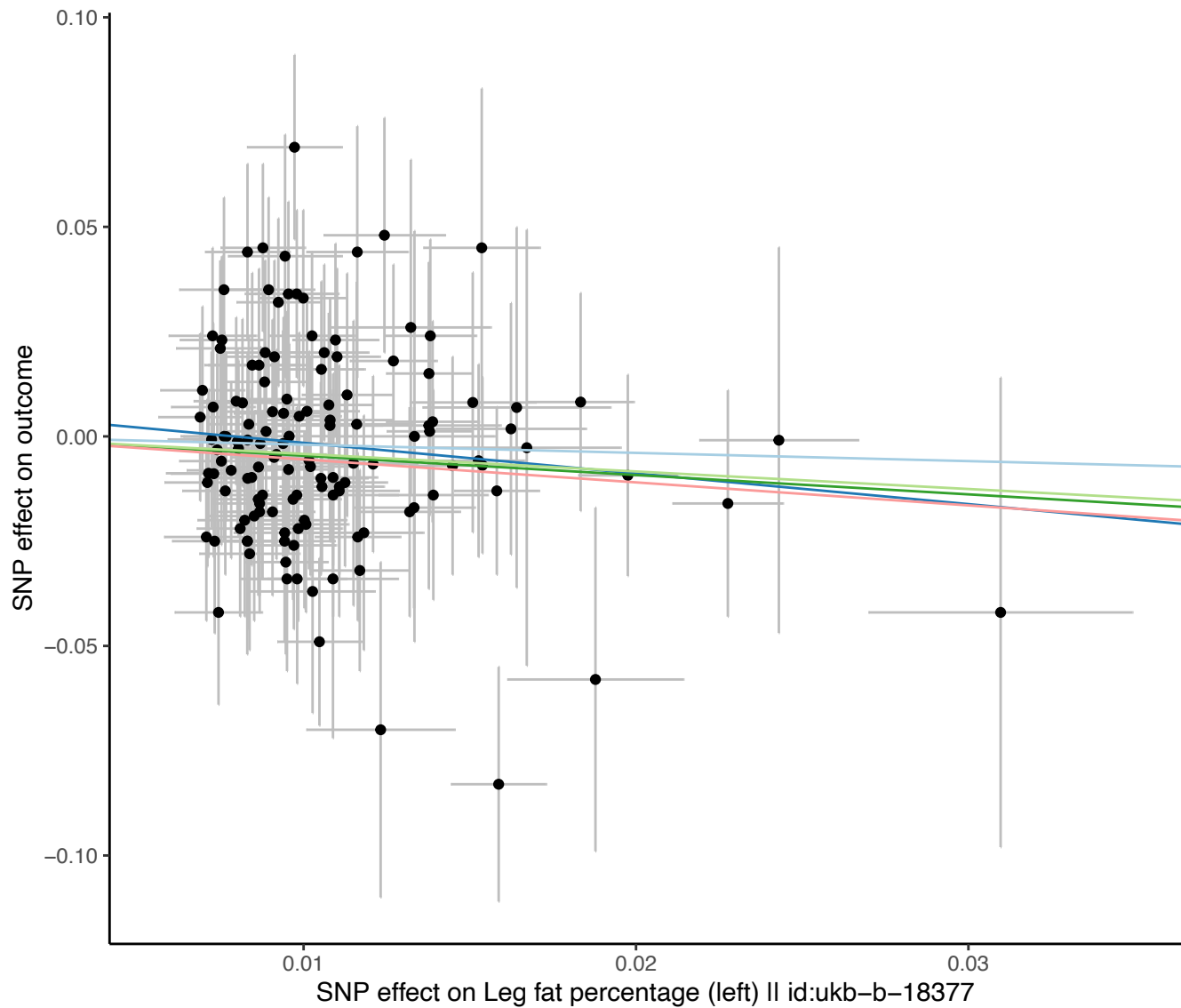


MR effect size for  
'Leg fat percentage (left) || id:ukb-b-18377' on 'outcome'



MR Test

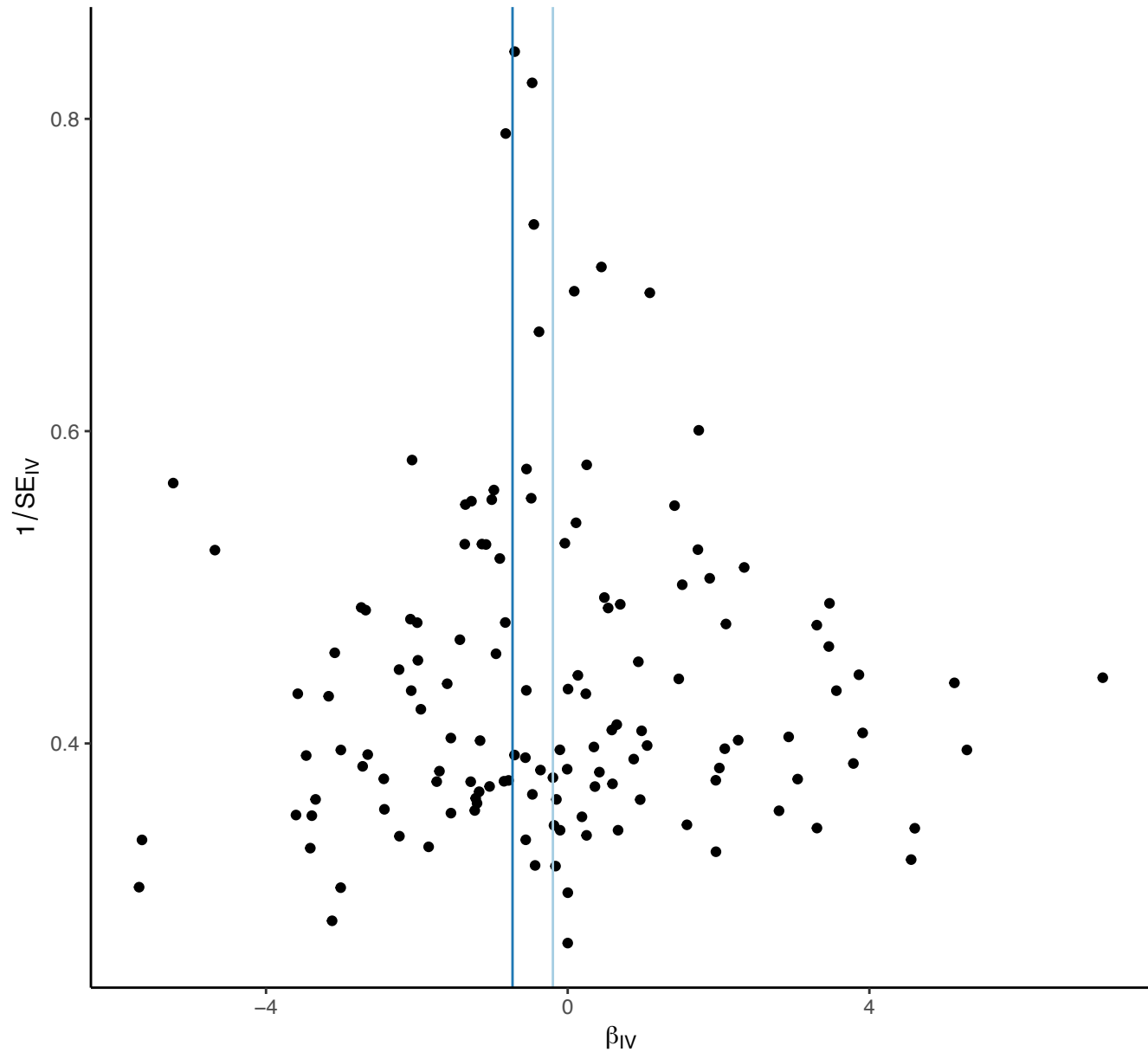
- Inverse variance weighted
- MR Egger
- Simple mode
- Weighted median
- Weighted mode

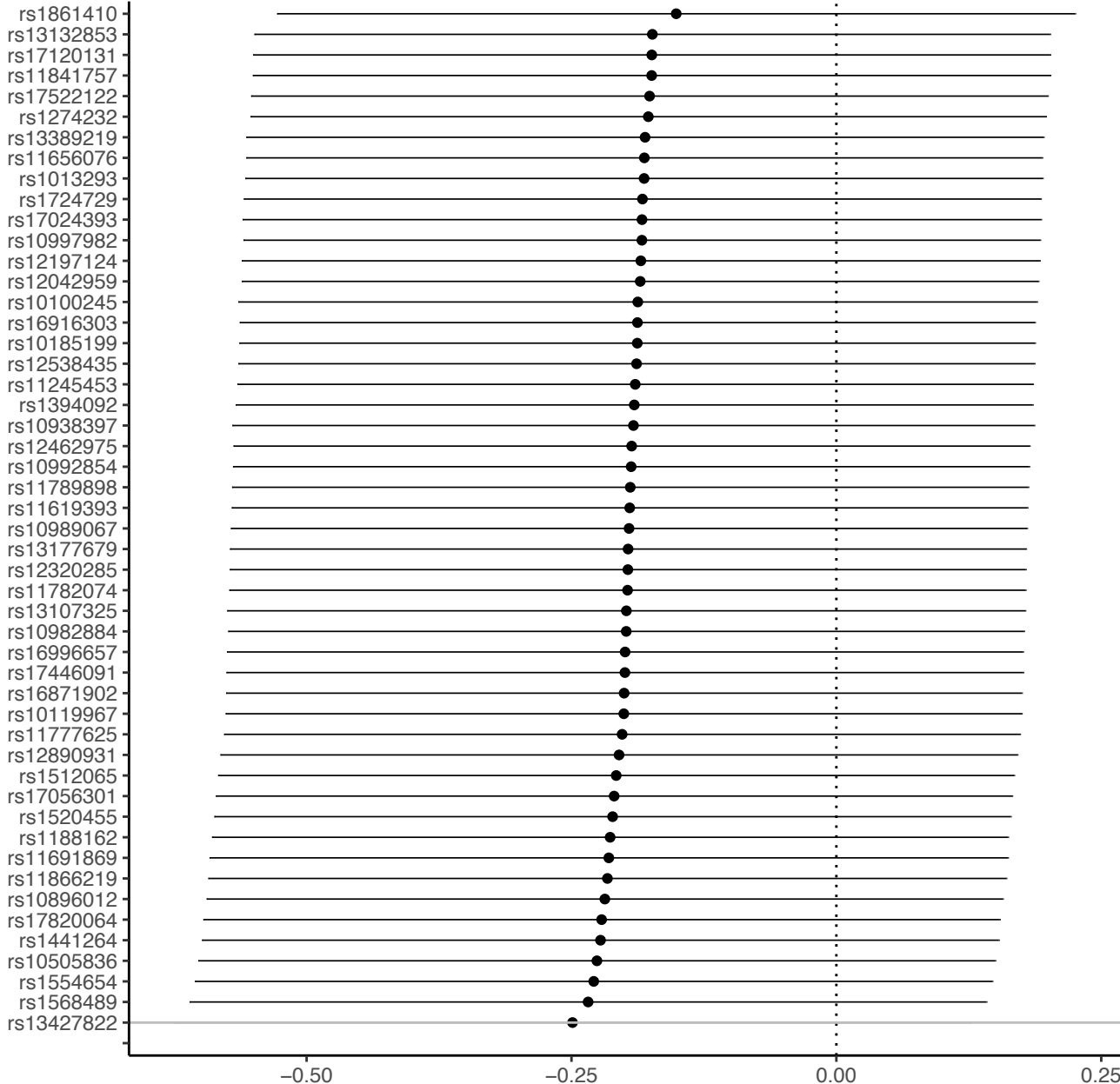


MR Method

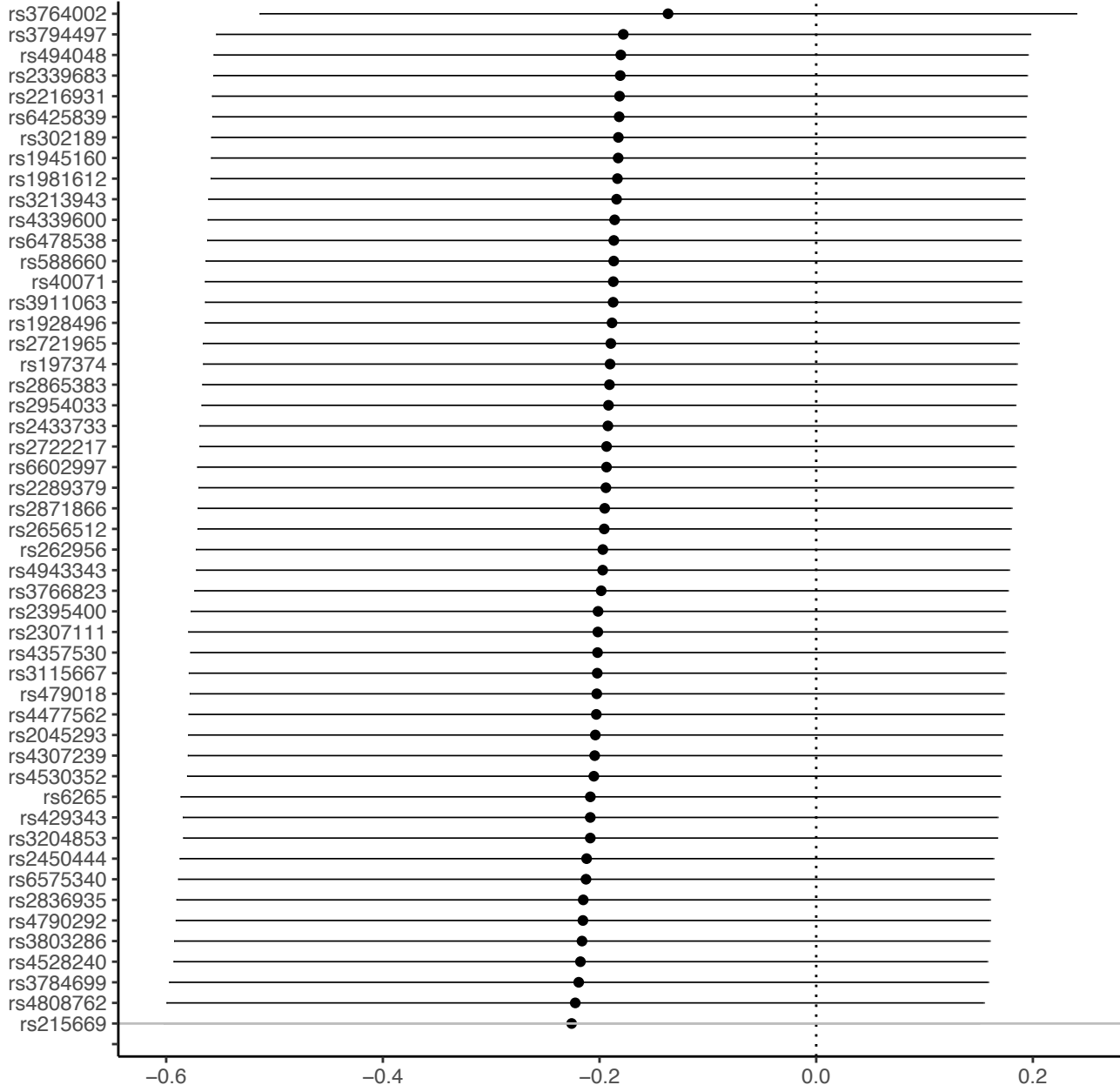
Inverse variance weighted

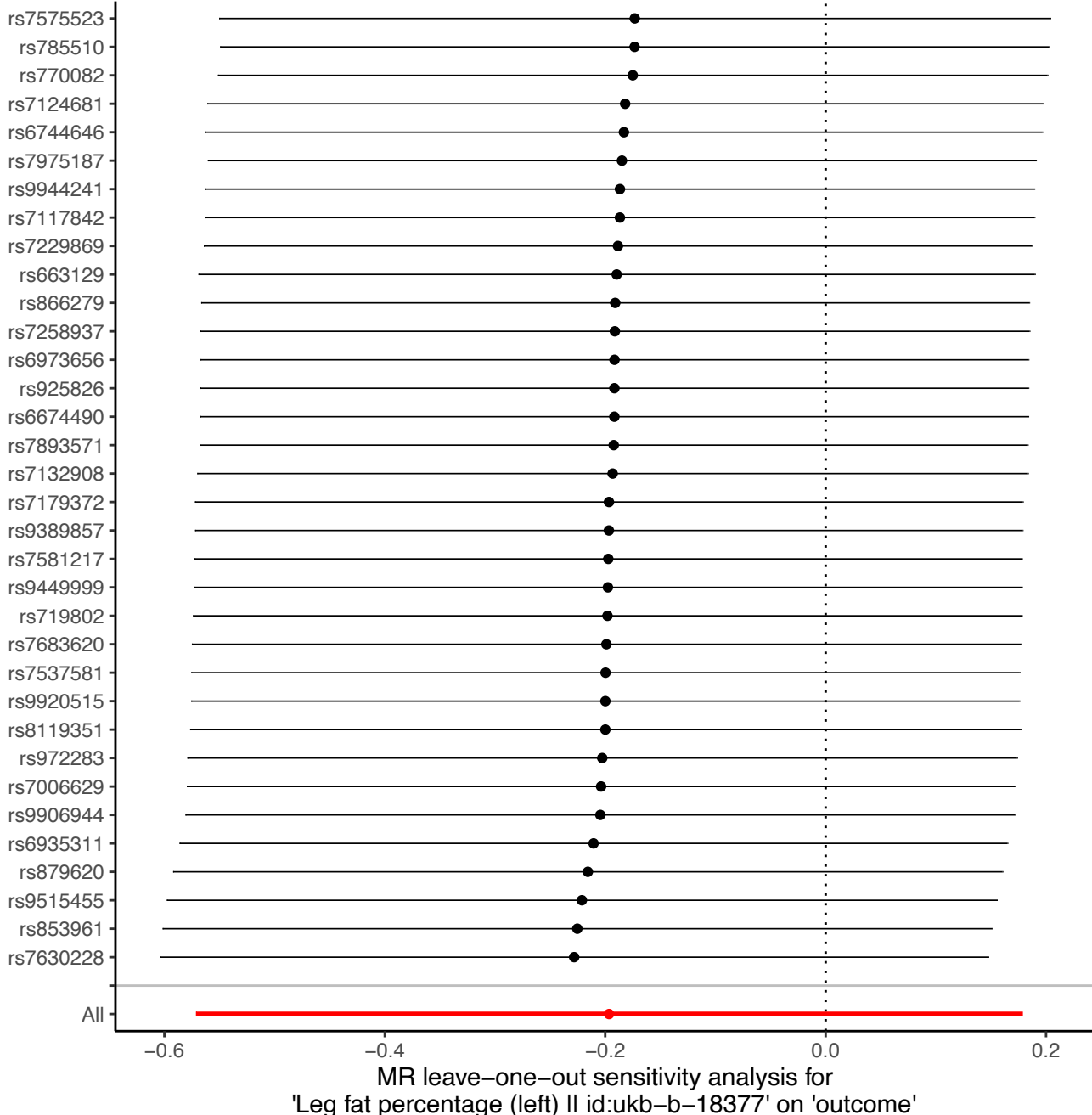
MR Egger



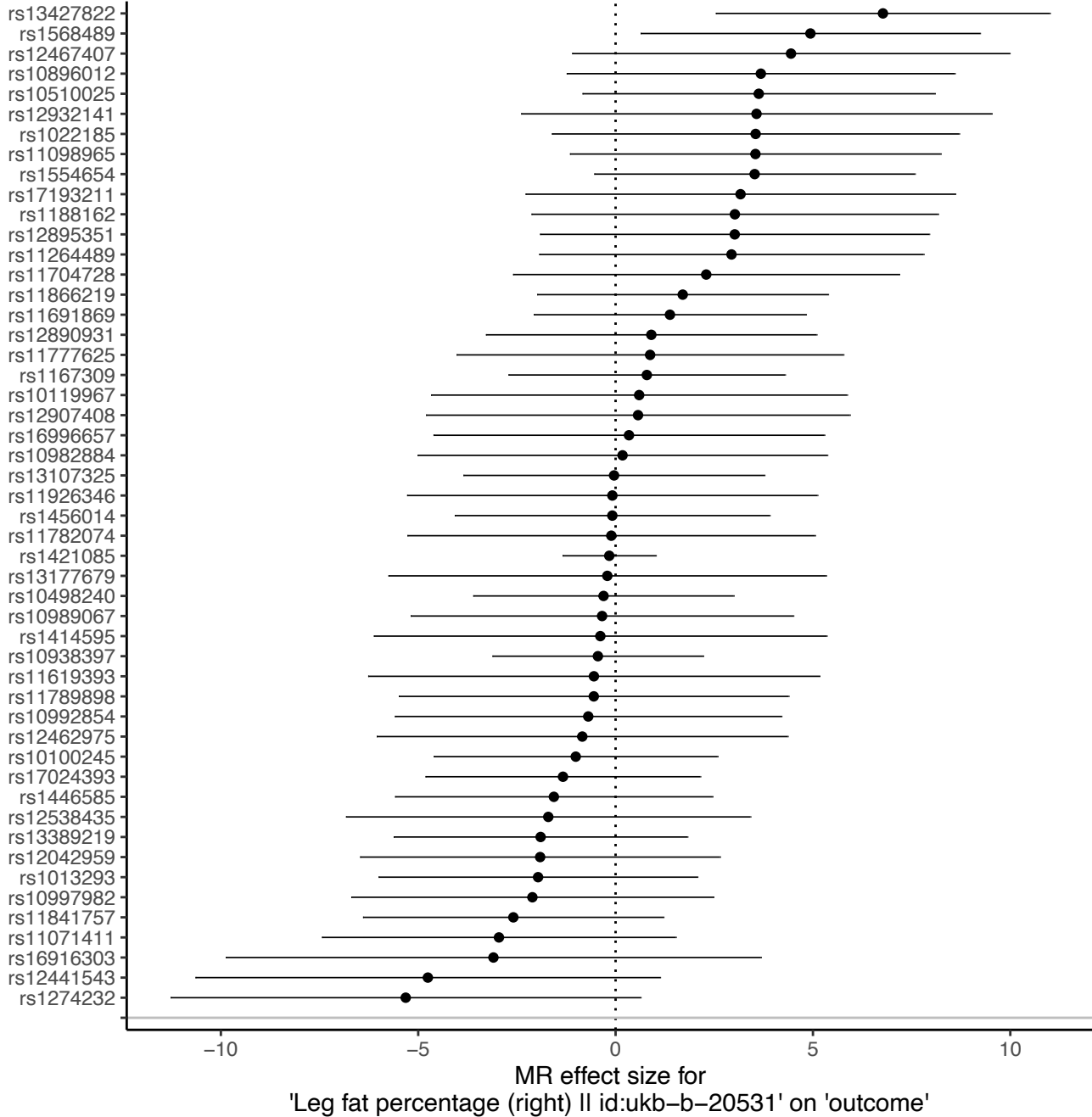


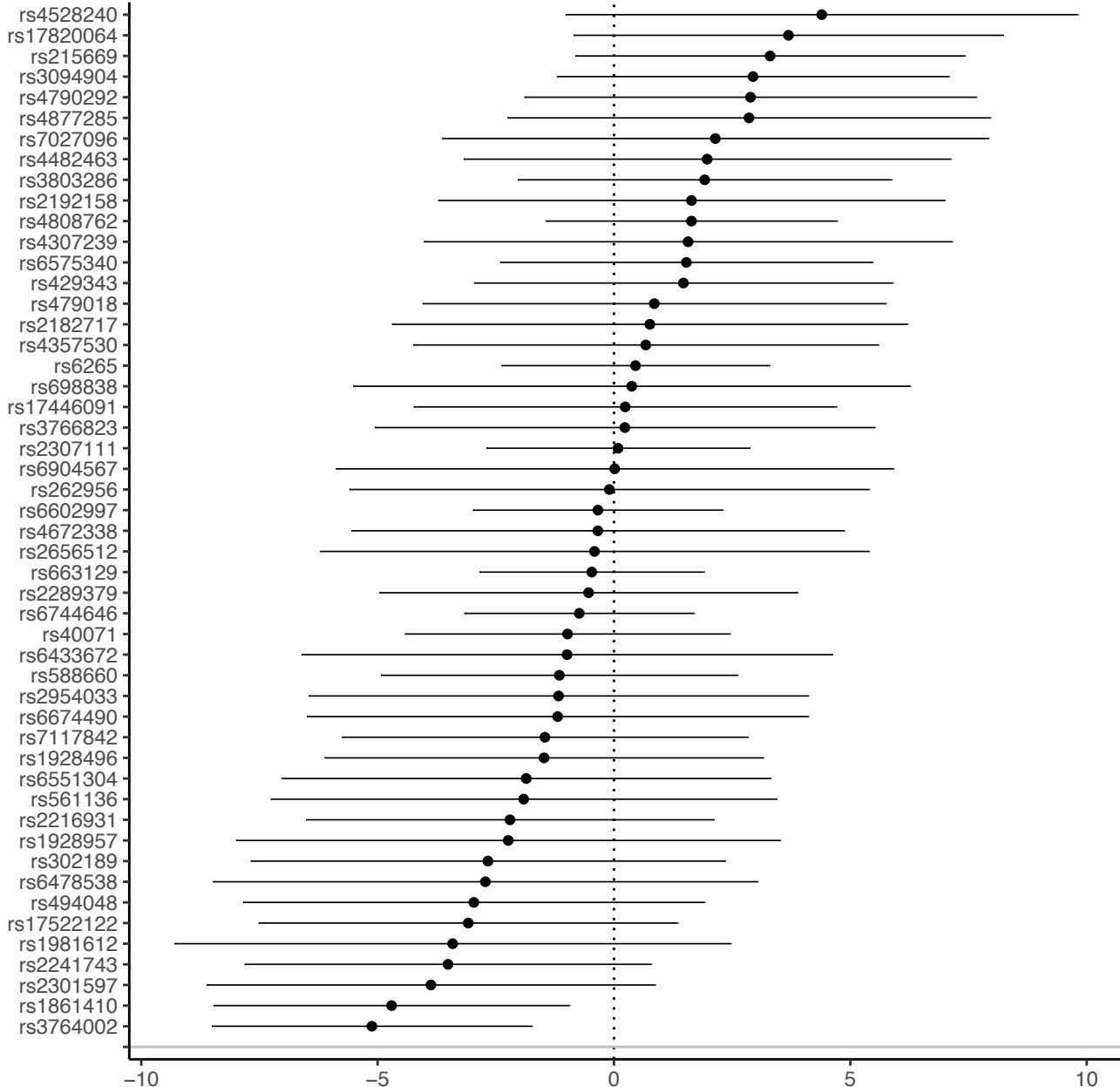




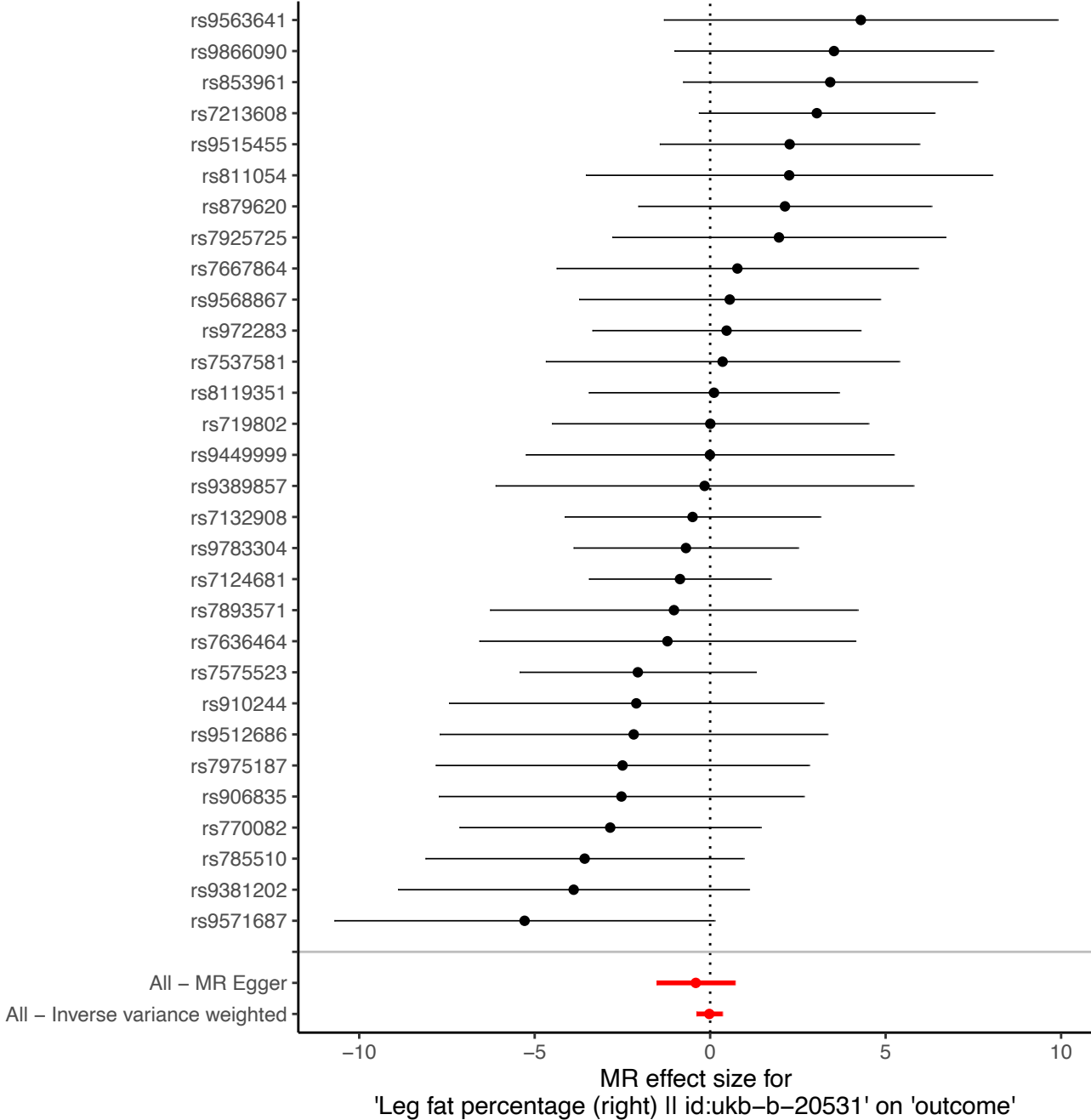


**Exposure: Leg Fat Percent - Right, Outcome: Corrected Insulin Response**  
**Figures of Forest Plot, Comparison of Different MR Methods, Funnel Plot and Leave-one-out Sensitivity Analysis**



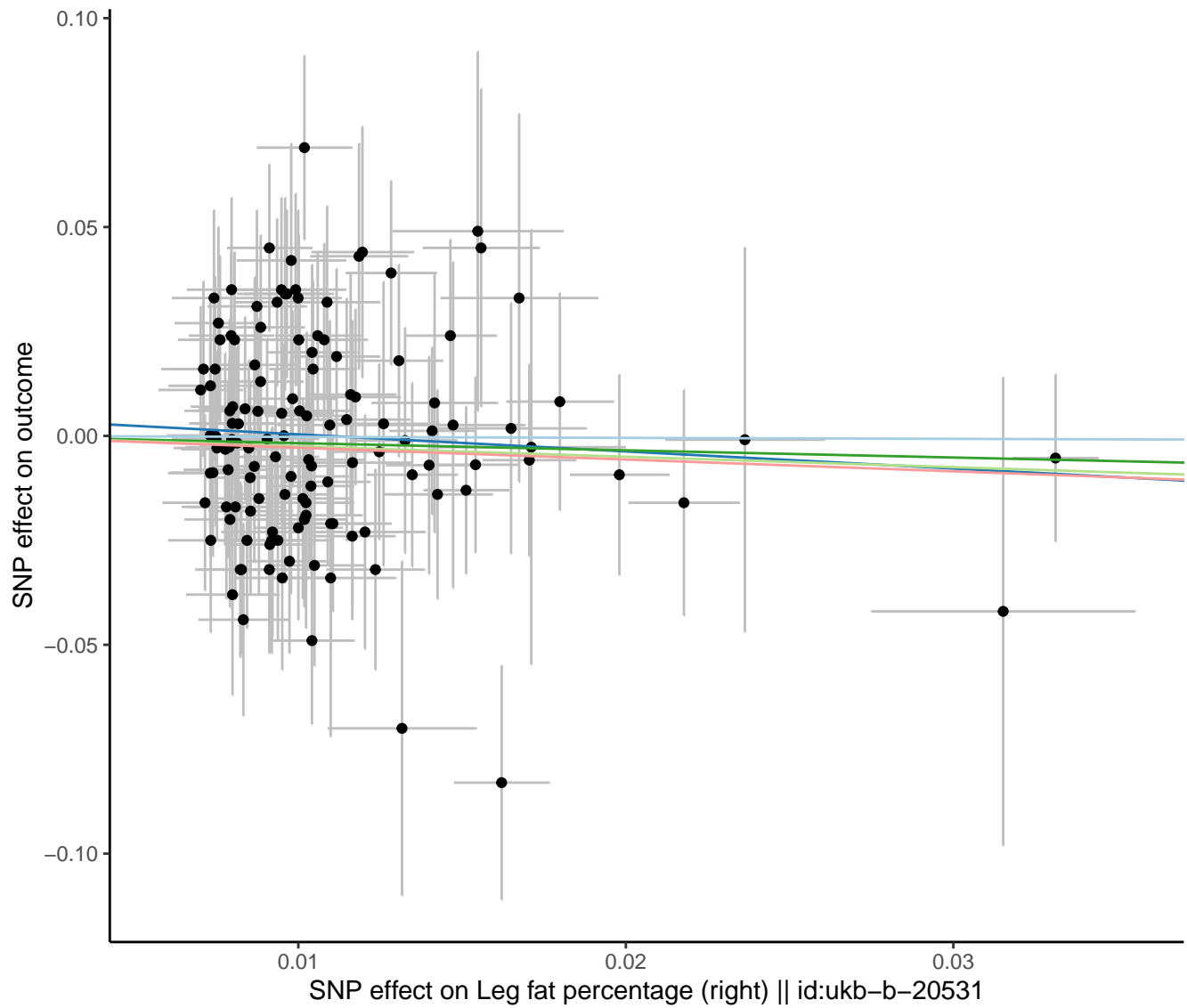


MR effect size for  
'Leg fat percentage (right) || id:ukb-b-20531' on 'outcome'



MR Test

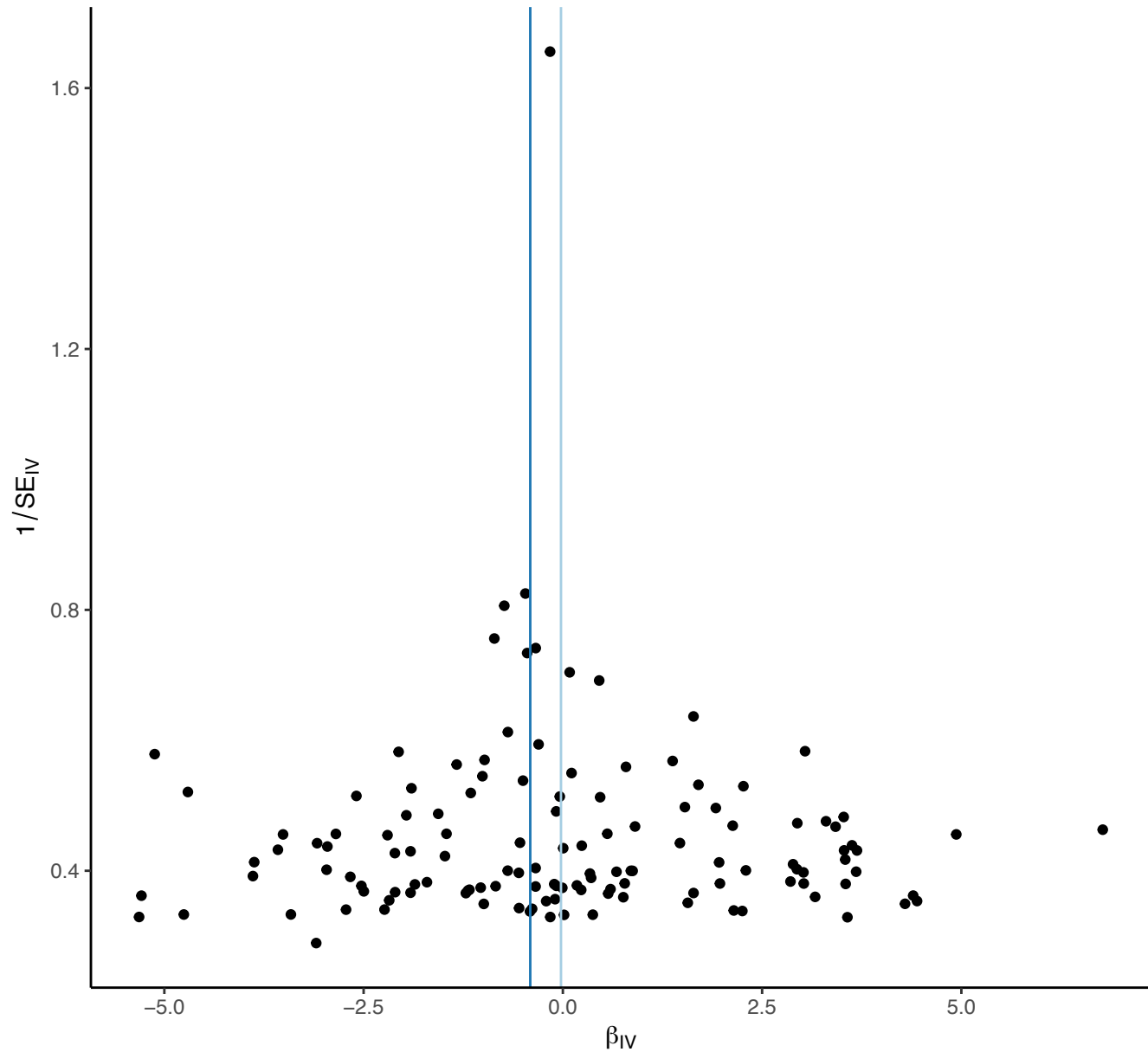
- Inverse variance weighted
- MR Egger
- Simple mode
- Weighted median
- Weighted mode



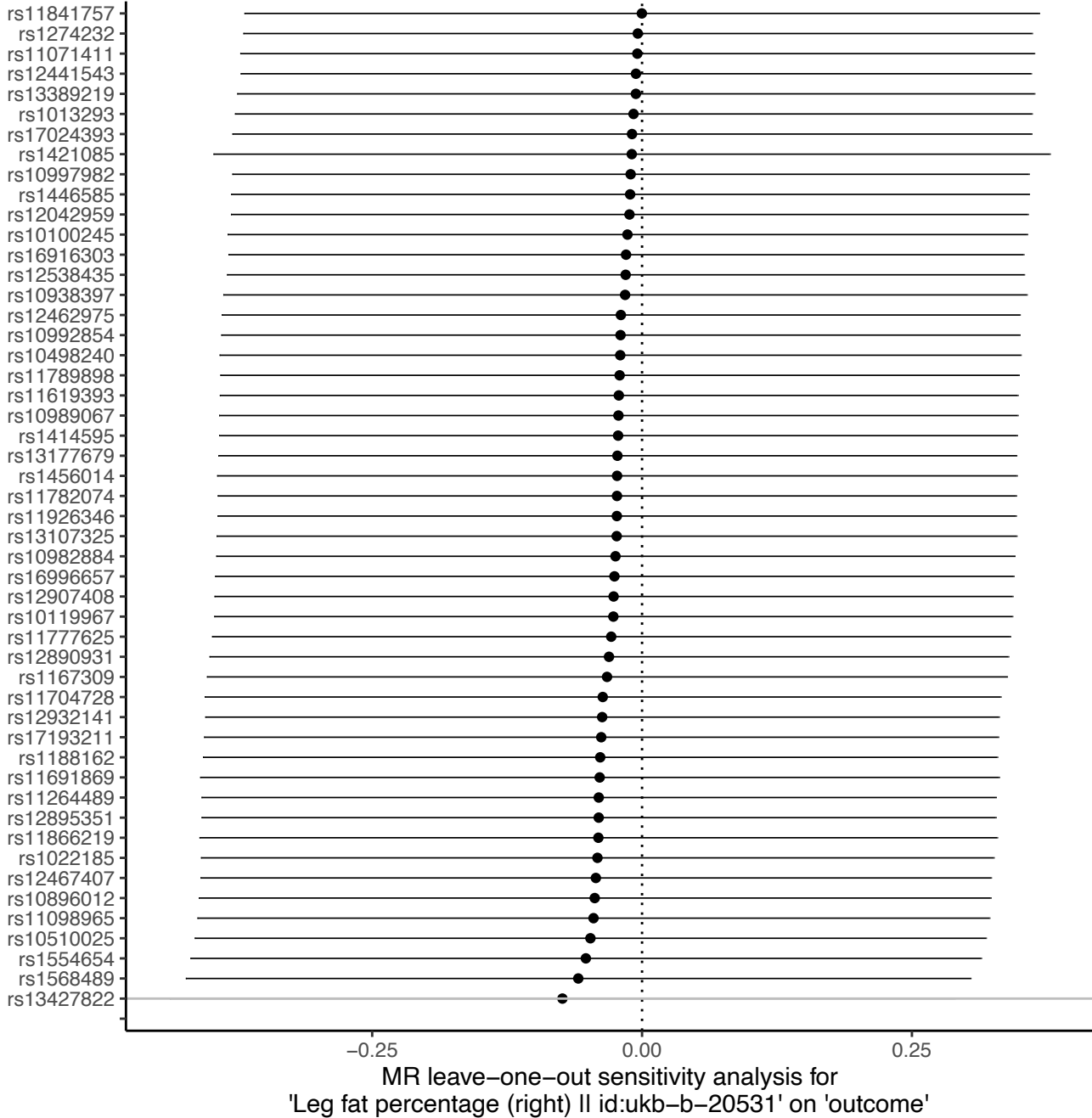
MR Method

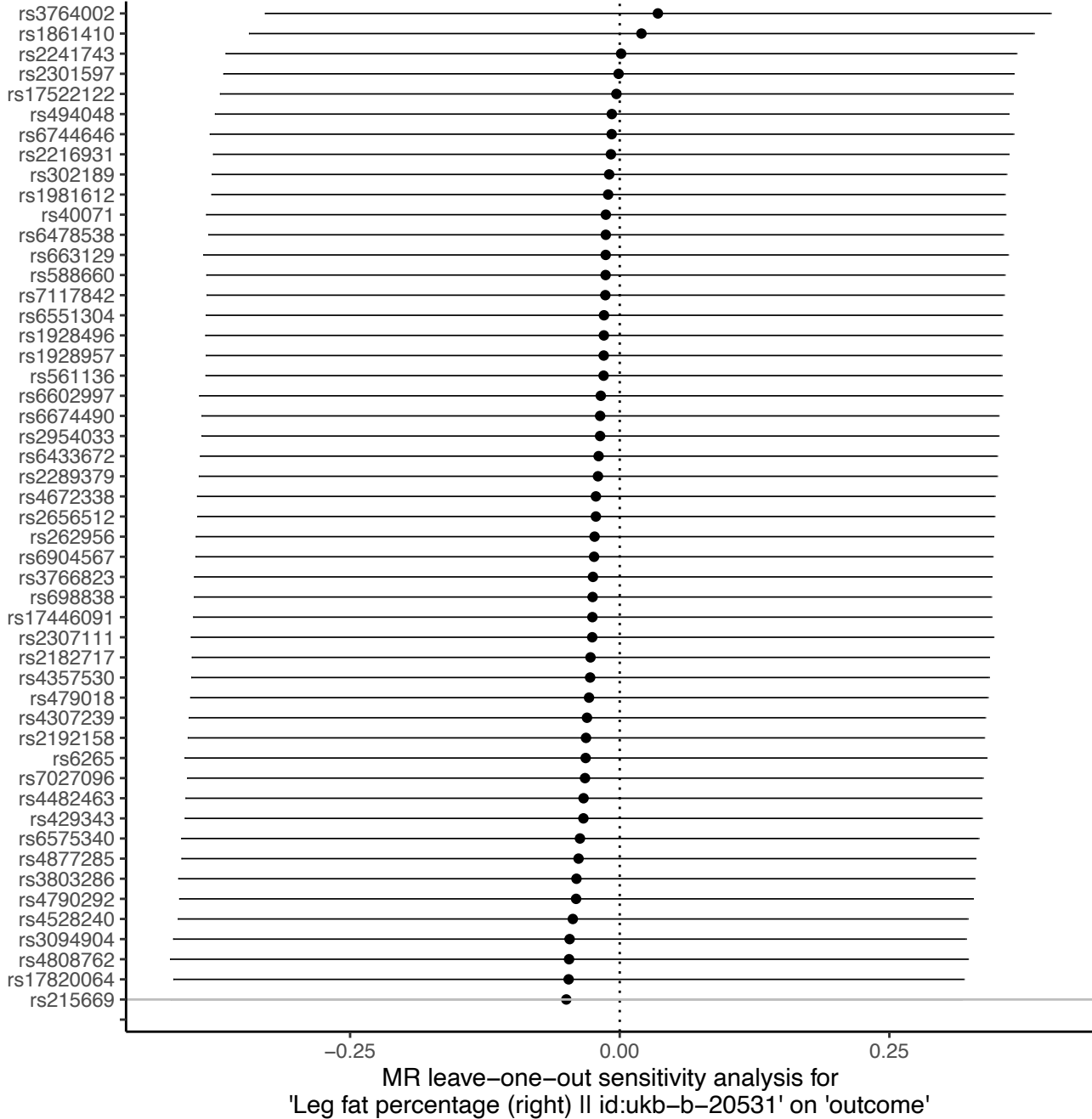
Inverse variance weighted

MR Egger

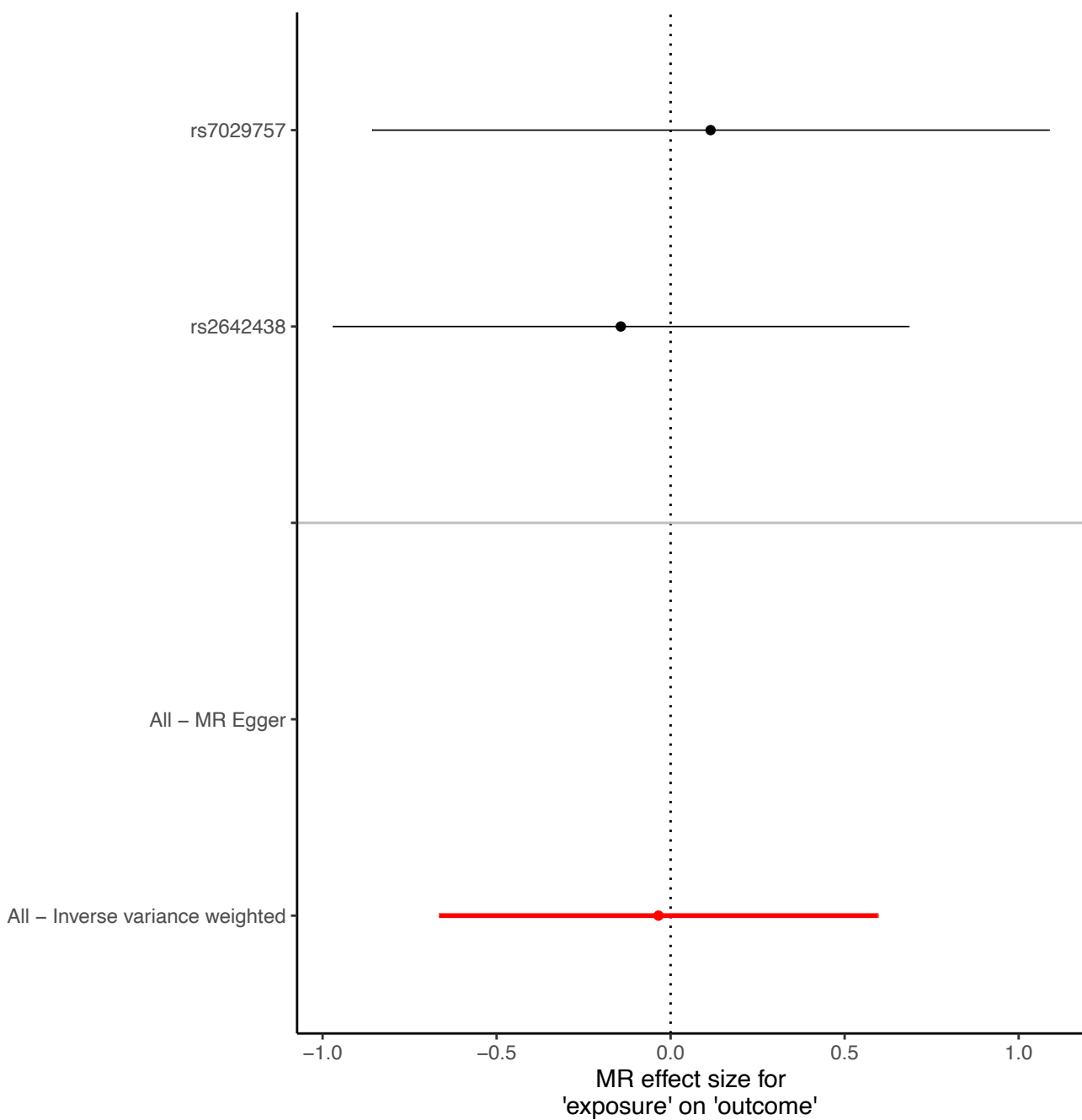






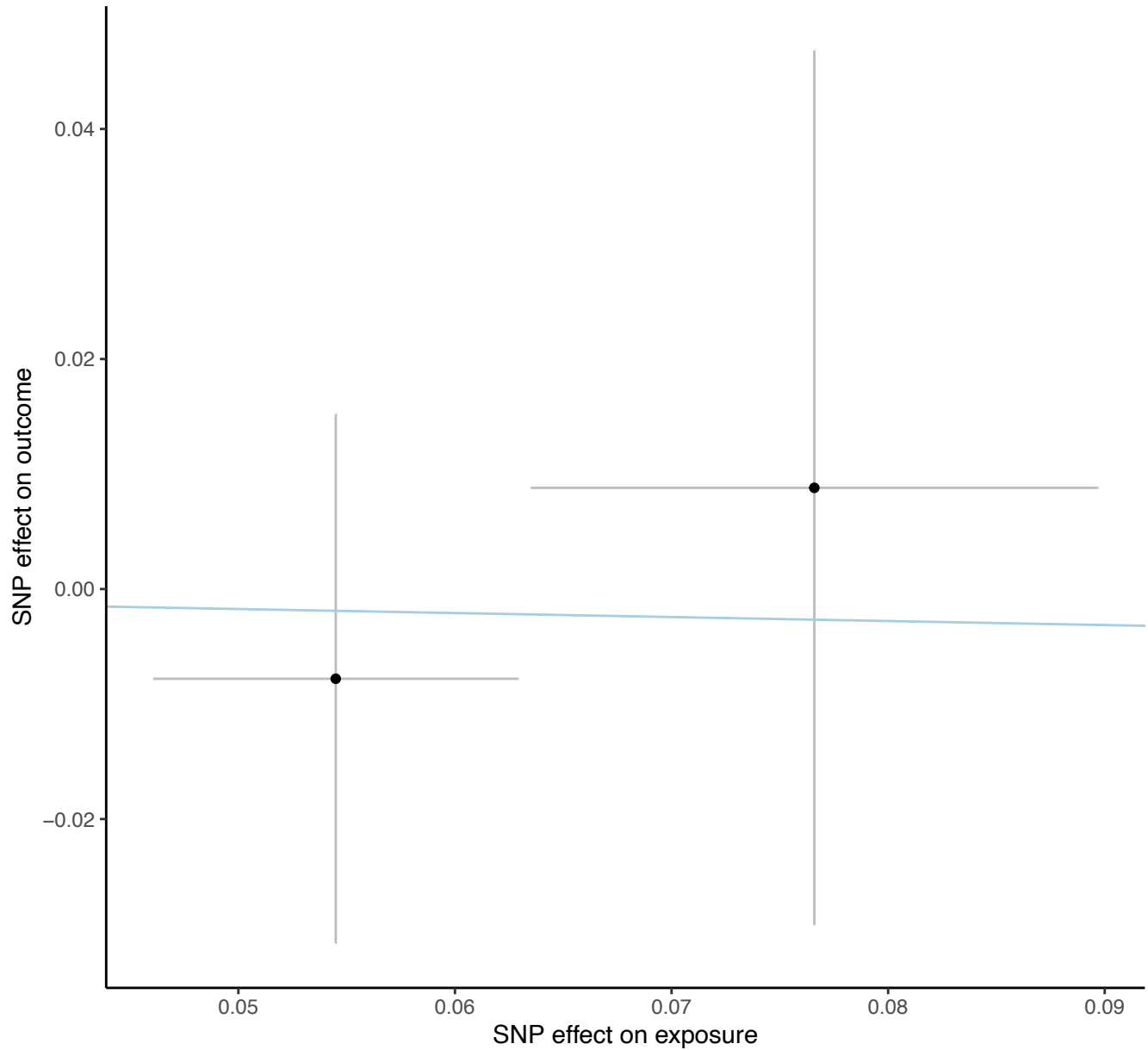


**Exposure: Liver Fat, Outcome: Corrected Insulin Response**  
**Figures of Forest Plot, Comparison of Different MR Methods, Funnel Plot and Leave-one-out Sensitivity Analysis**



MR Test

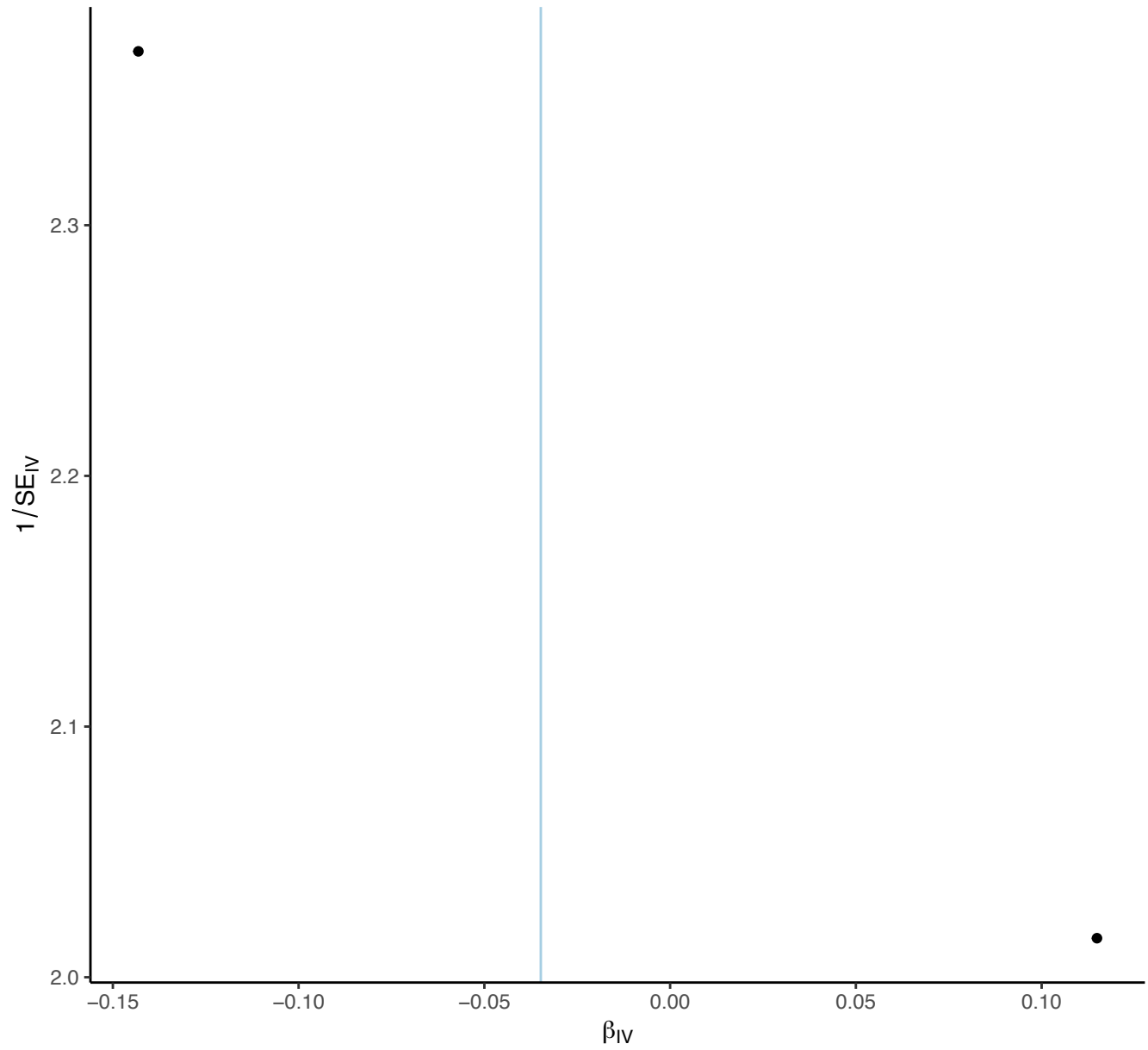
Inverse variance weighted

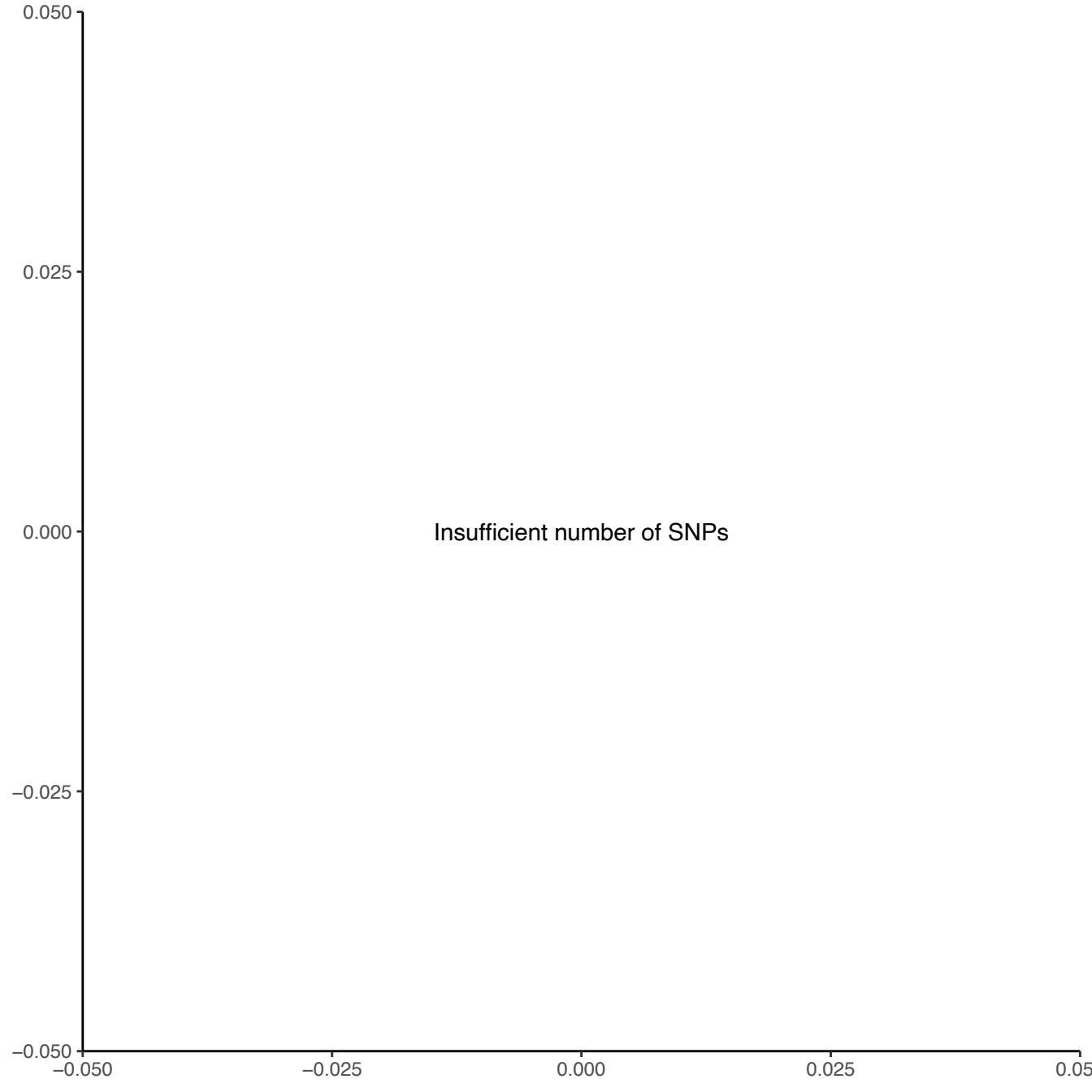


MR Method

Inverse variance weighted

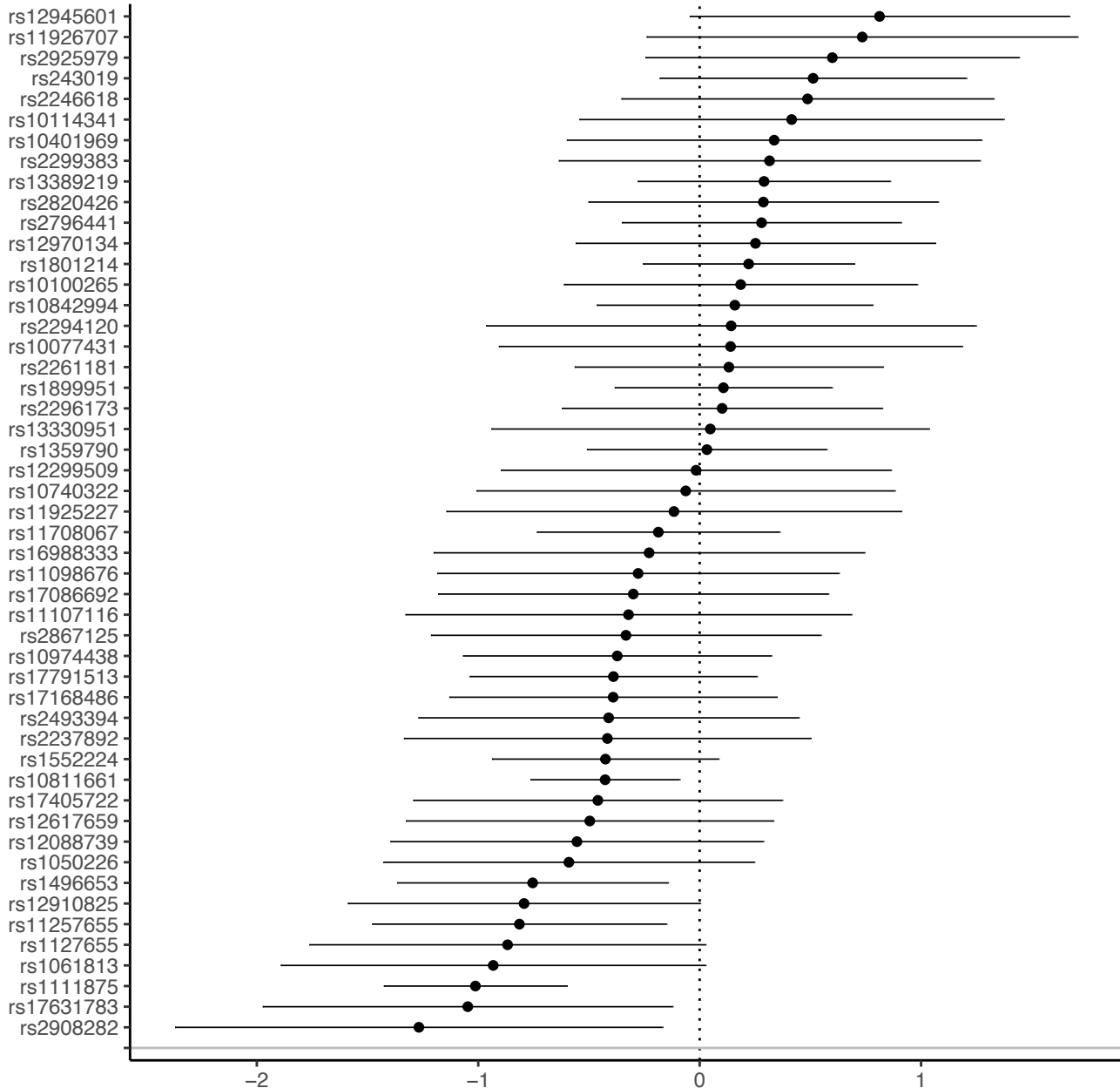
MR Egger





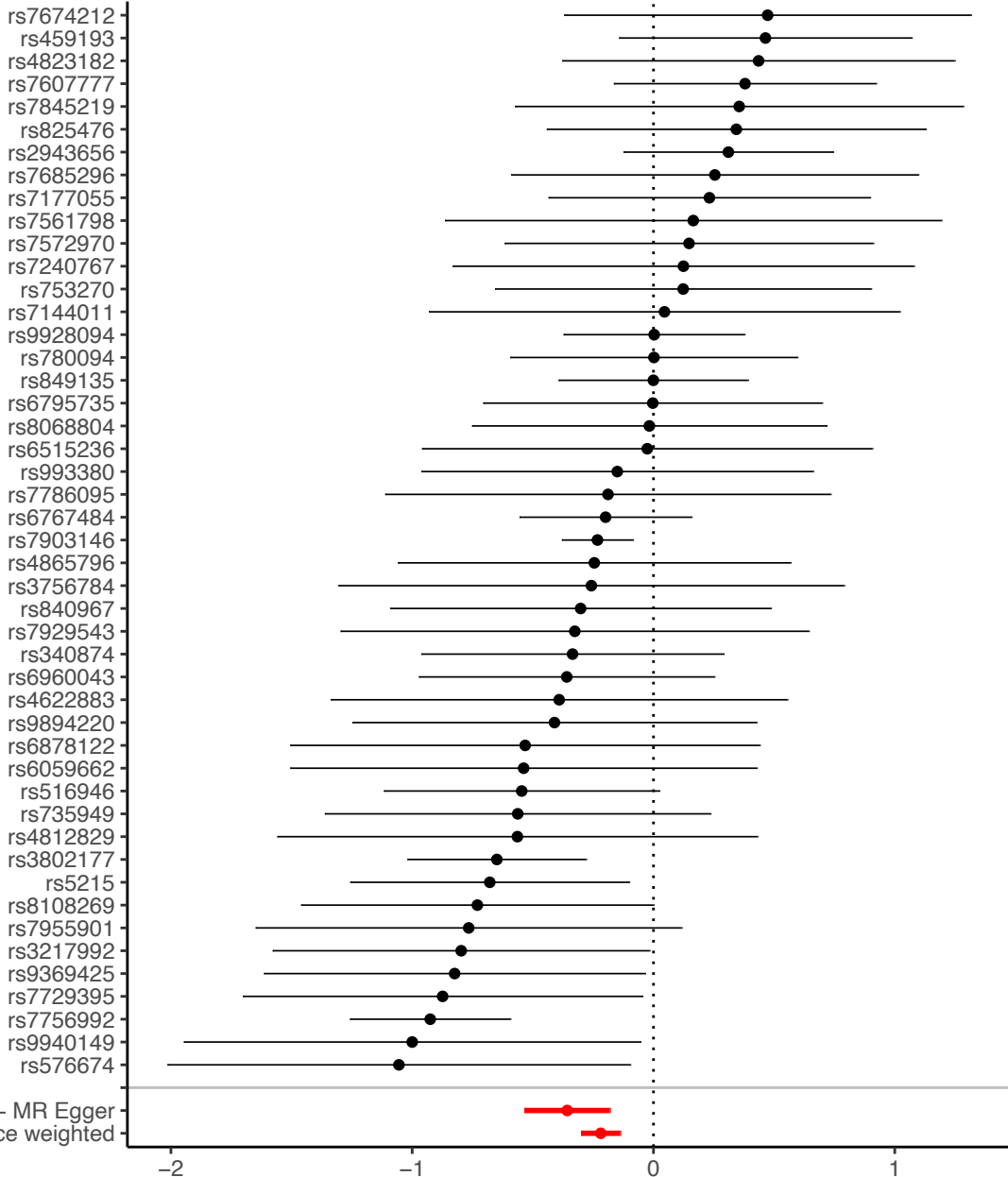
**Exposure: Type 2 Diabetes, Outcome: Corrected Insulin Response**  
**Figures of Forest Plot, Comparison of Different MR Methods, Funnel Plot and Leave-one-out Sensitivity Analysis**





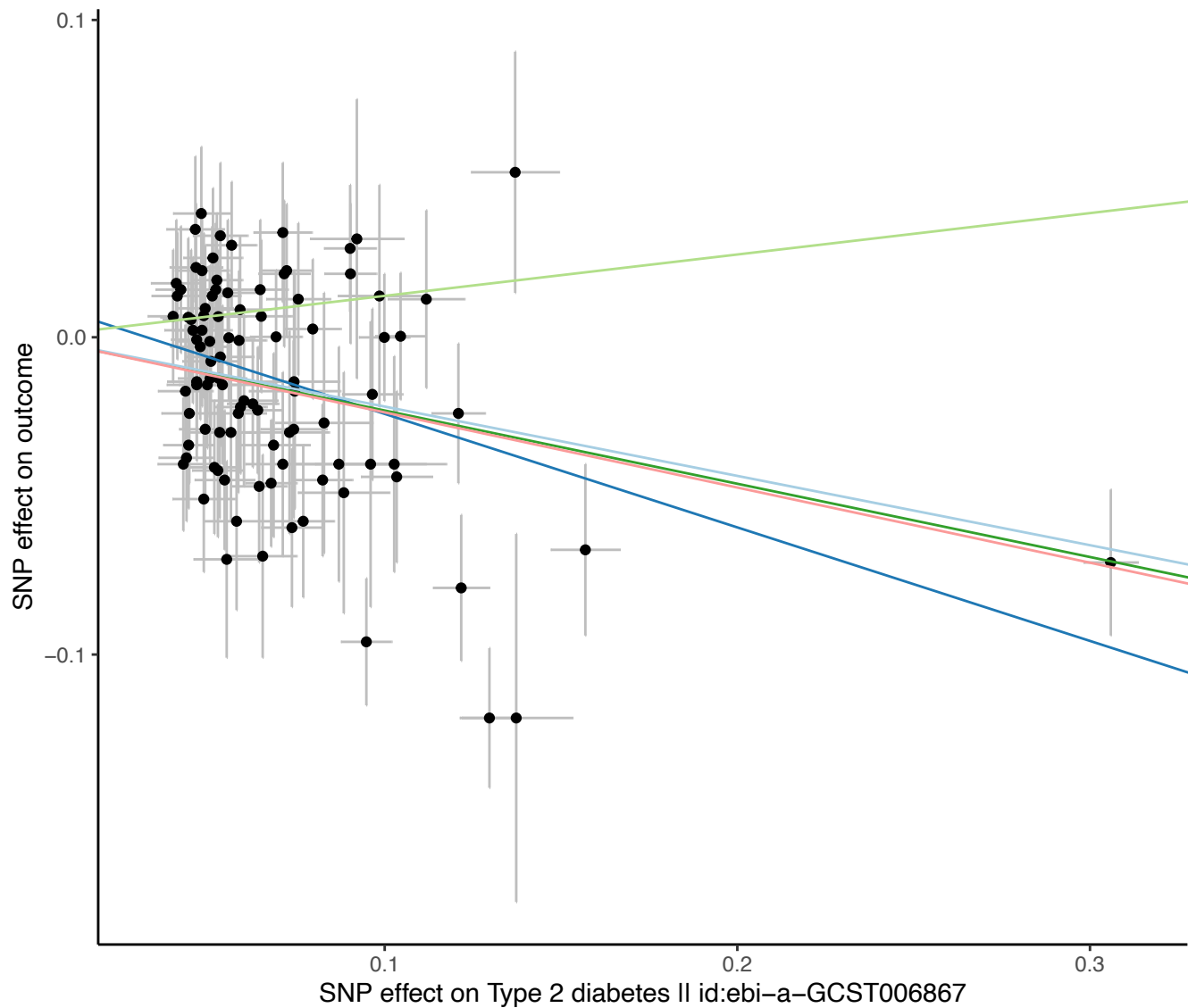
MR effect size for  
'Type 2 diabetes II id:ebi-a-GCST006867' on 'outcome'

All – MR Egger  
All – Inverse variance weighted



MR Test

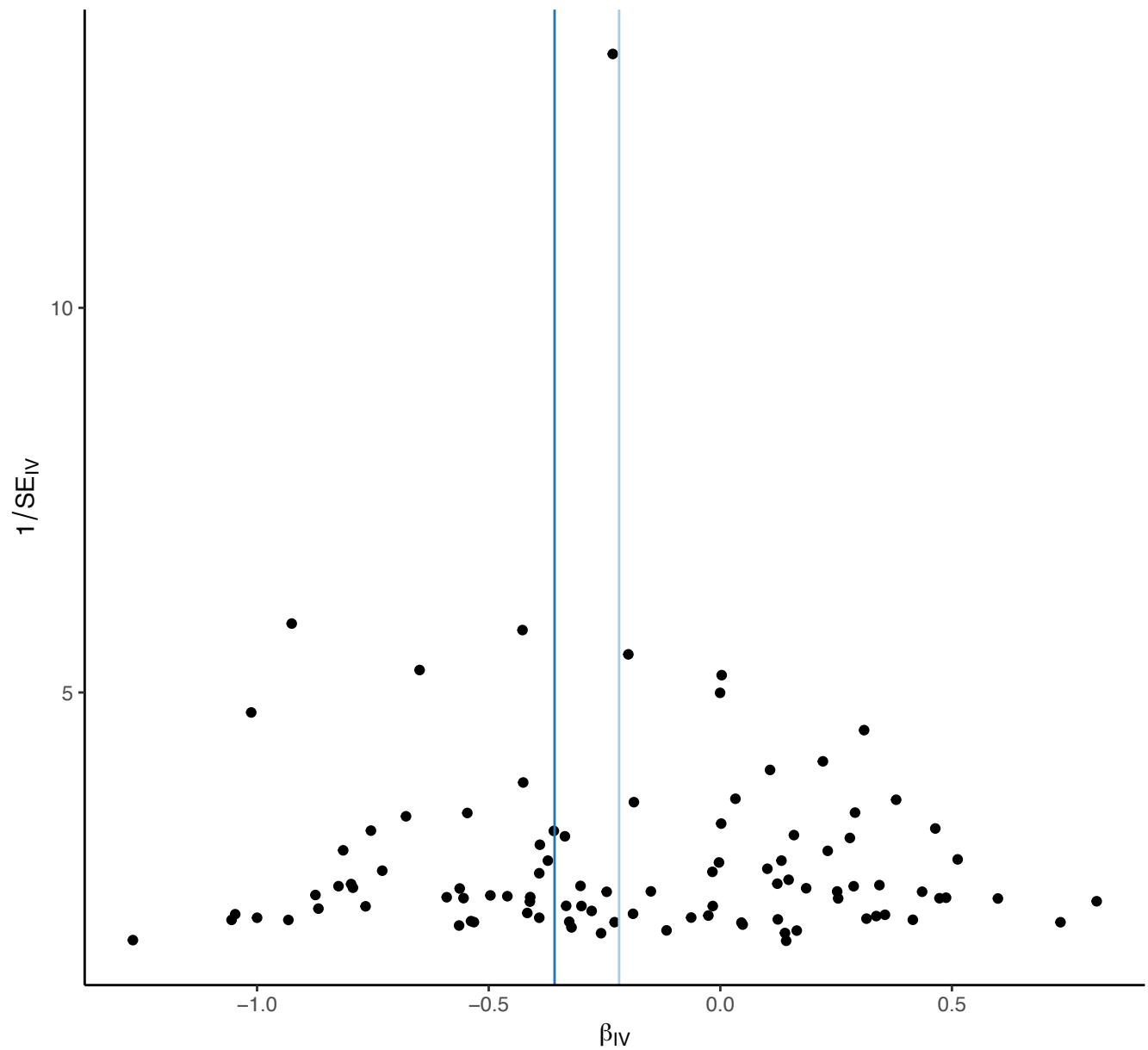
- Inverse variance weighted
- MR Egger
- Simple mode
- Weighted median
- Weighted mode

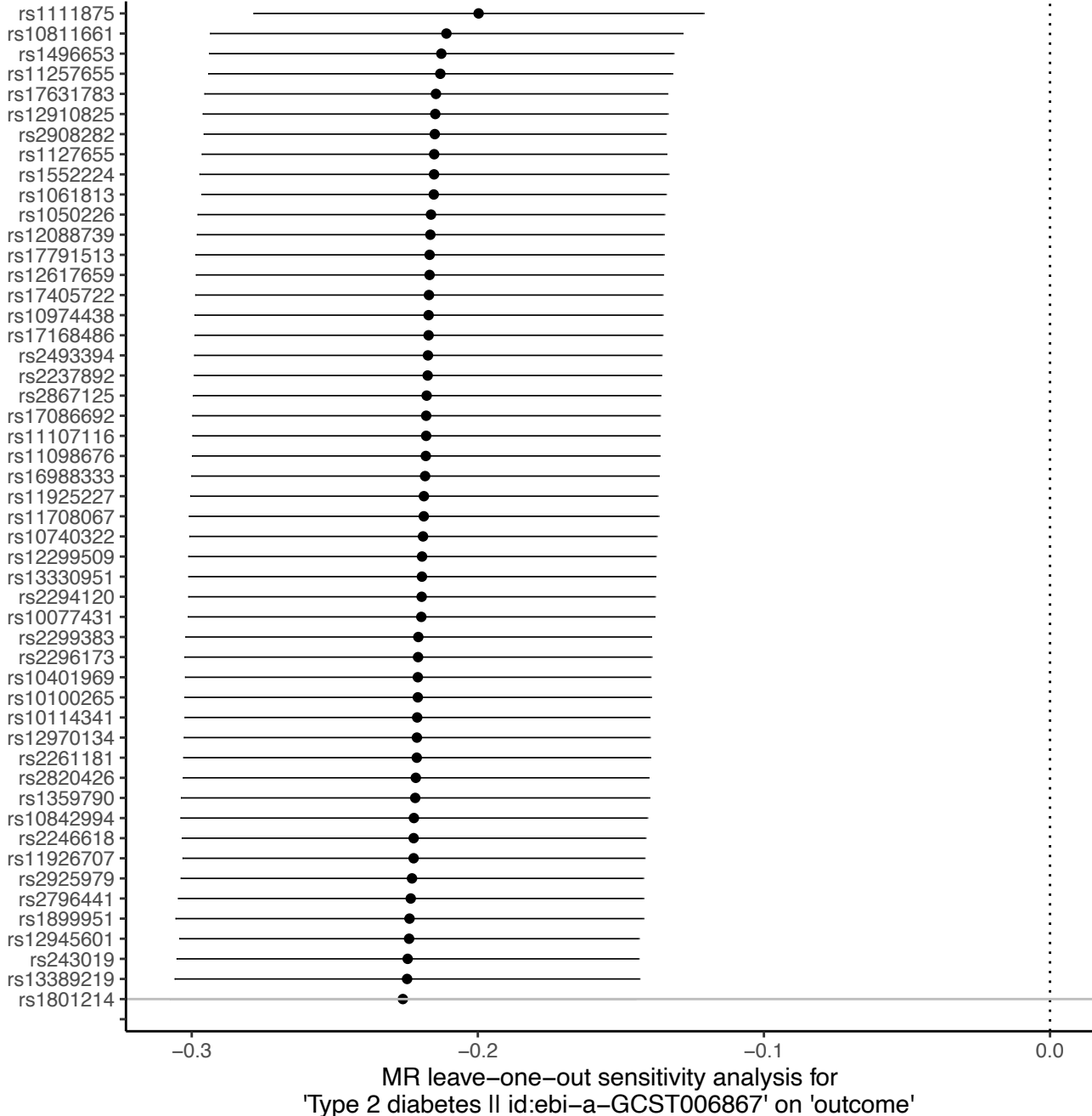


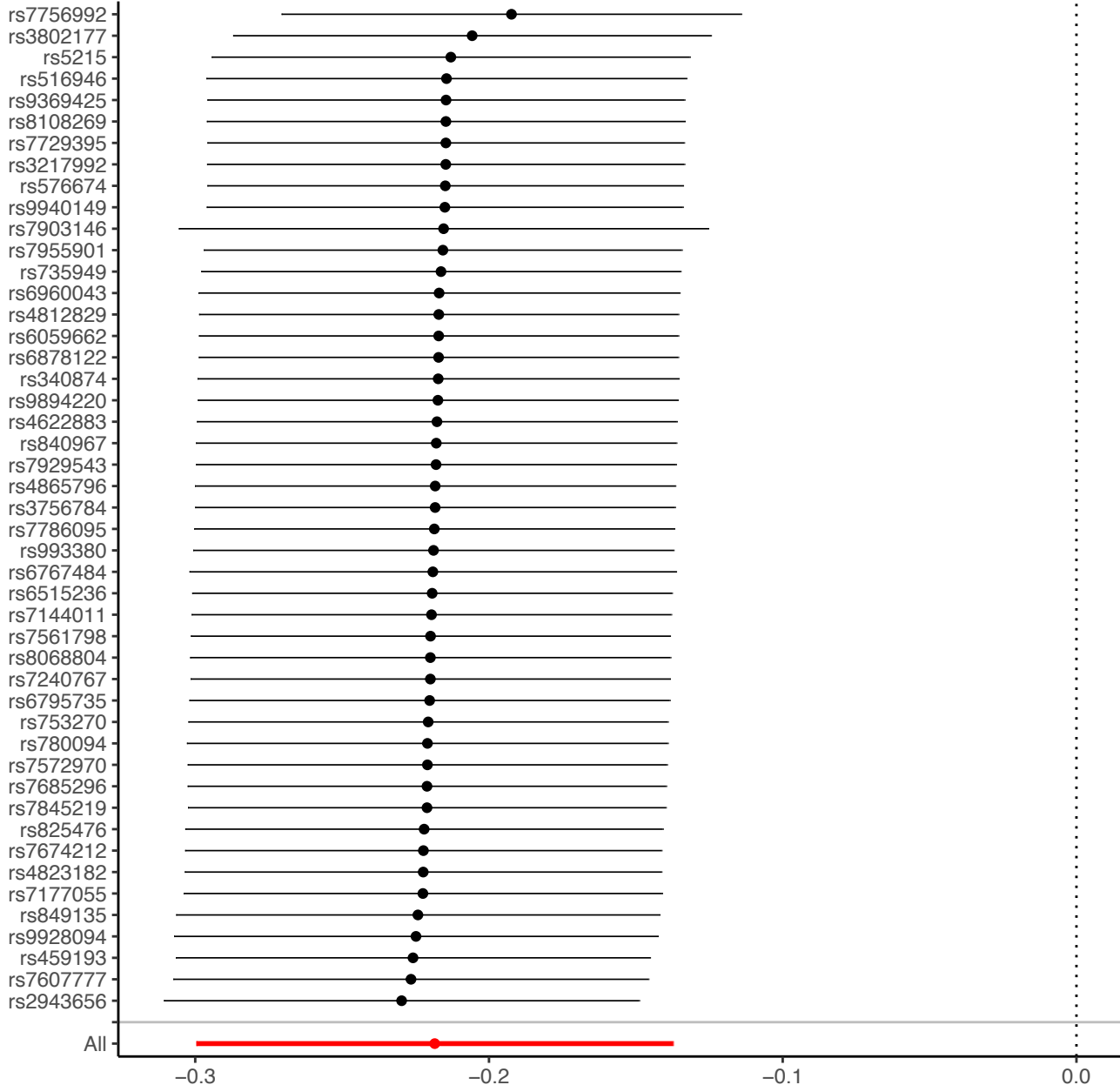
MR Method

Inverse variance weighted

MR Egger

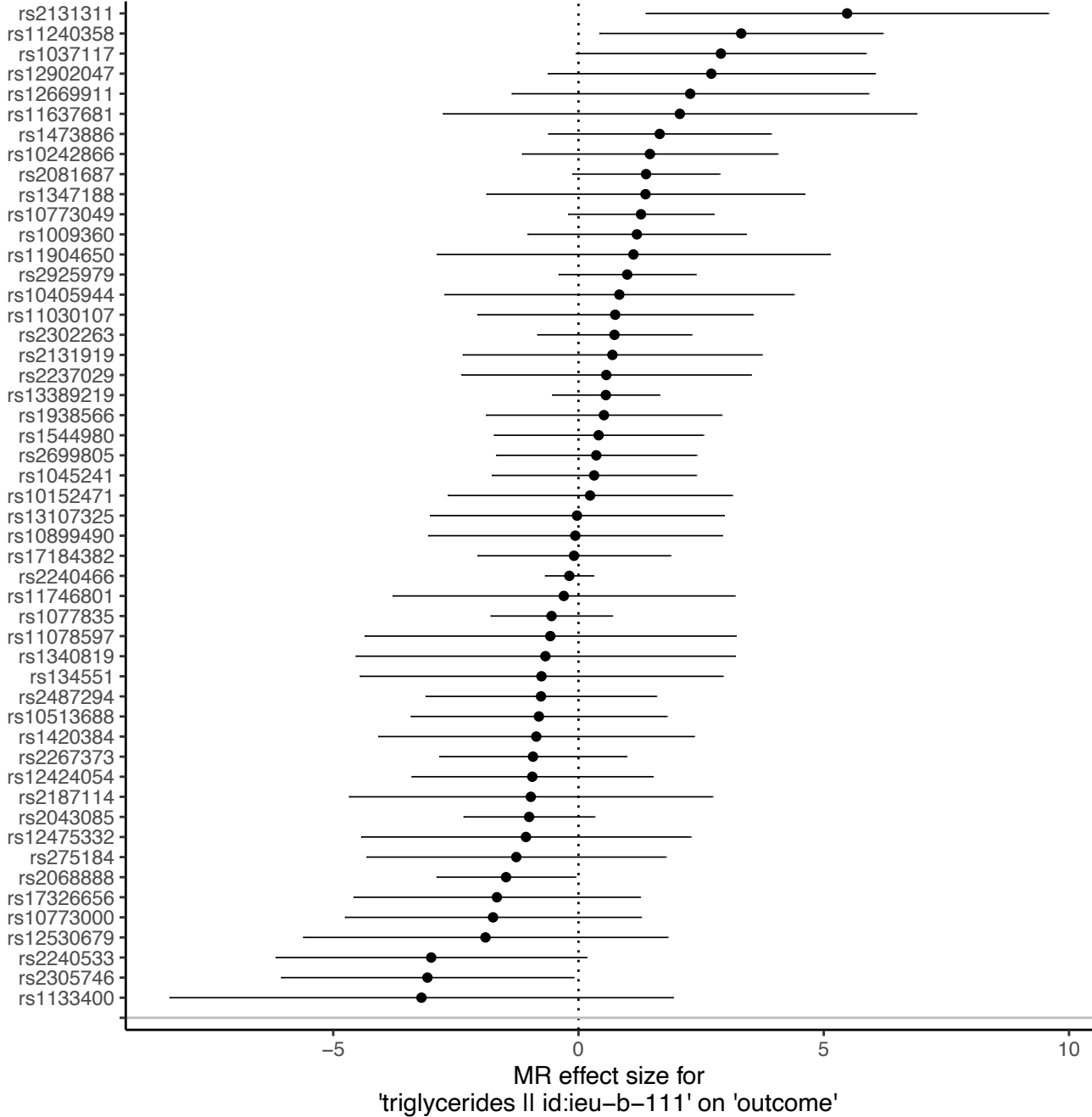




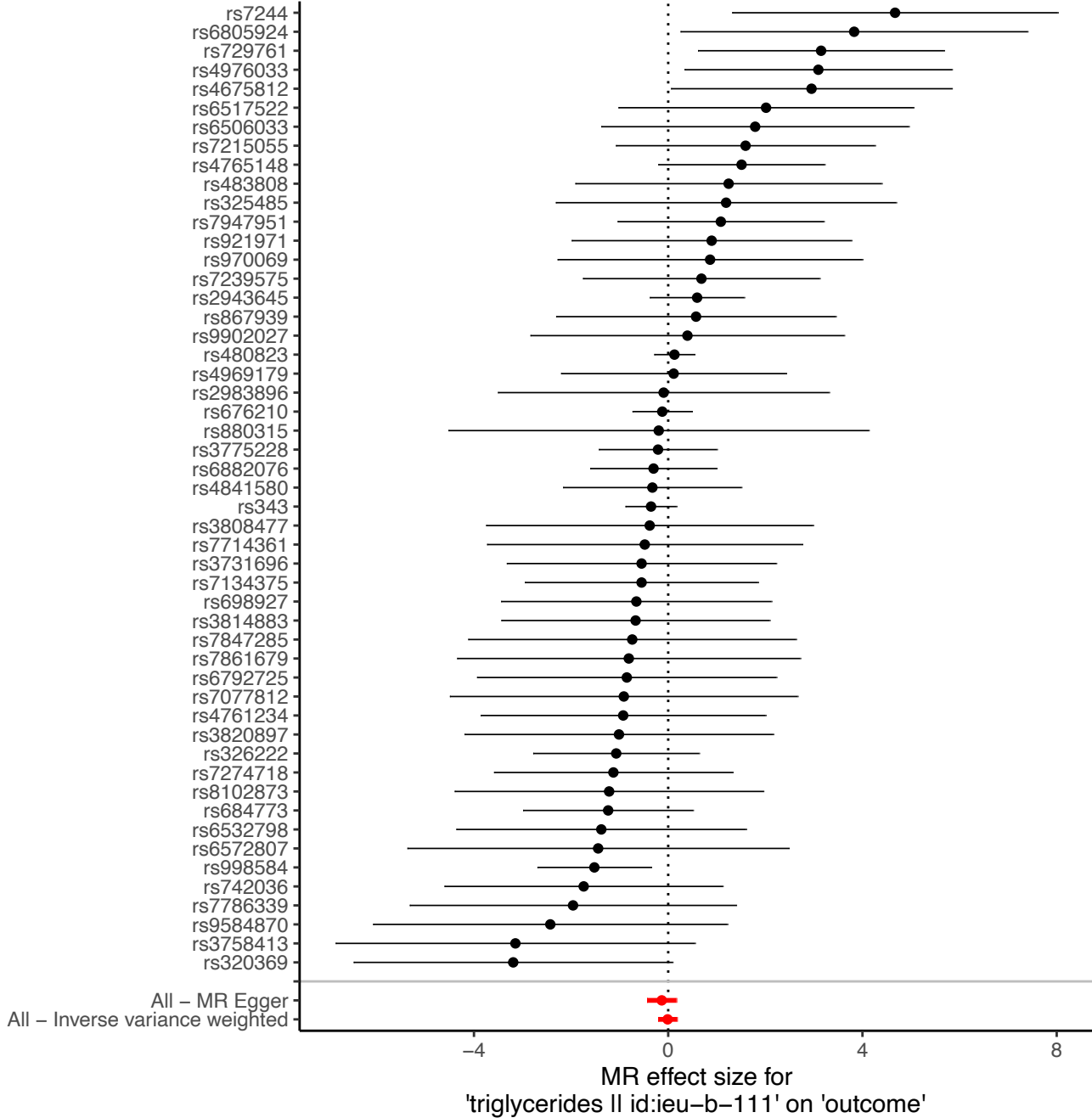


MR leave-one-out sensitivity analysis for  
'Type 2 diabetes II id:ebi-a-GCST006867' on 'outcome'

**Exposure: Triglycerides, Outcome: Corrected Insulin Response**  
**Figures of Forest Plot, Comparison of Different MR Methods, Funnel Plot and Leave-one-out Sensitivity Analysis**

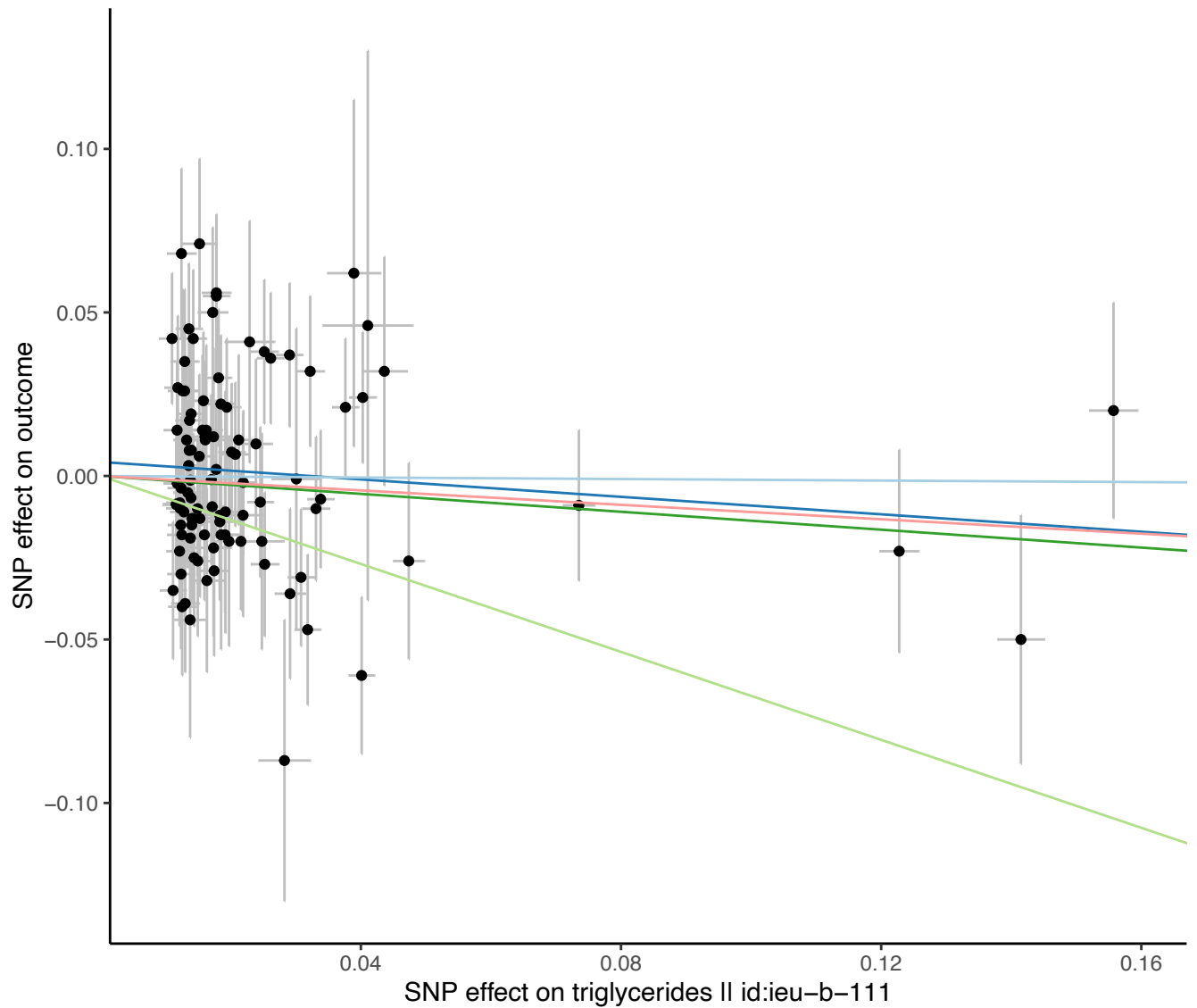






MR Test

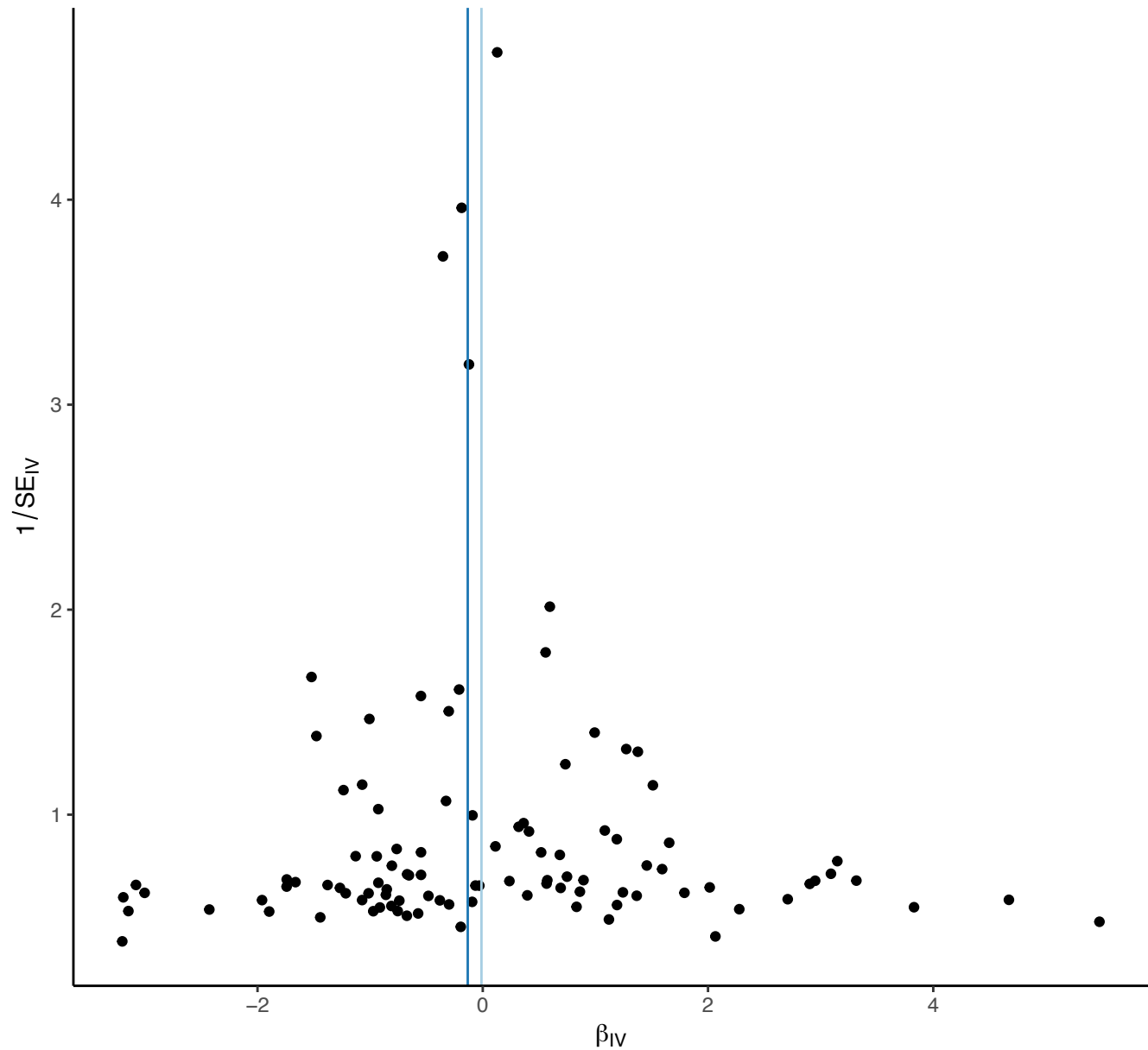
- Inverse variance weighted
- MR Egger
- Simple mode
- Weighted median
- Weighted mode

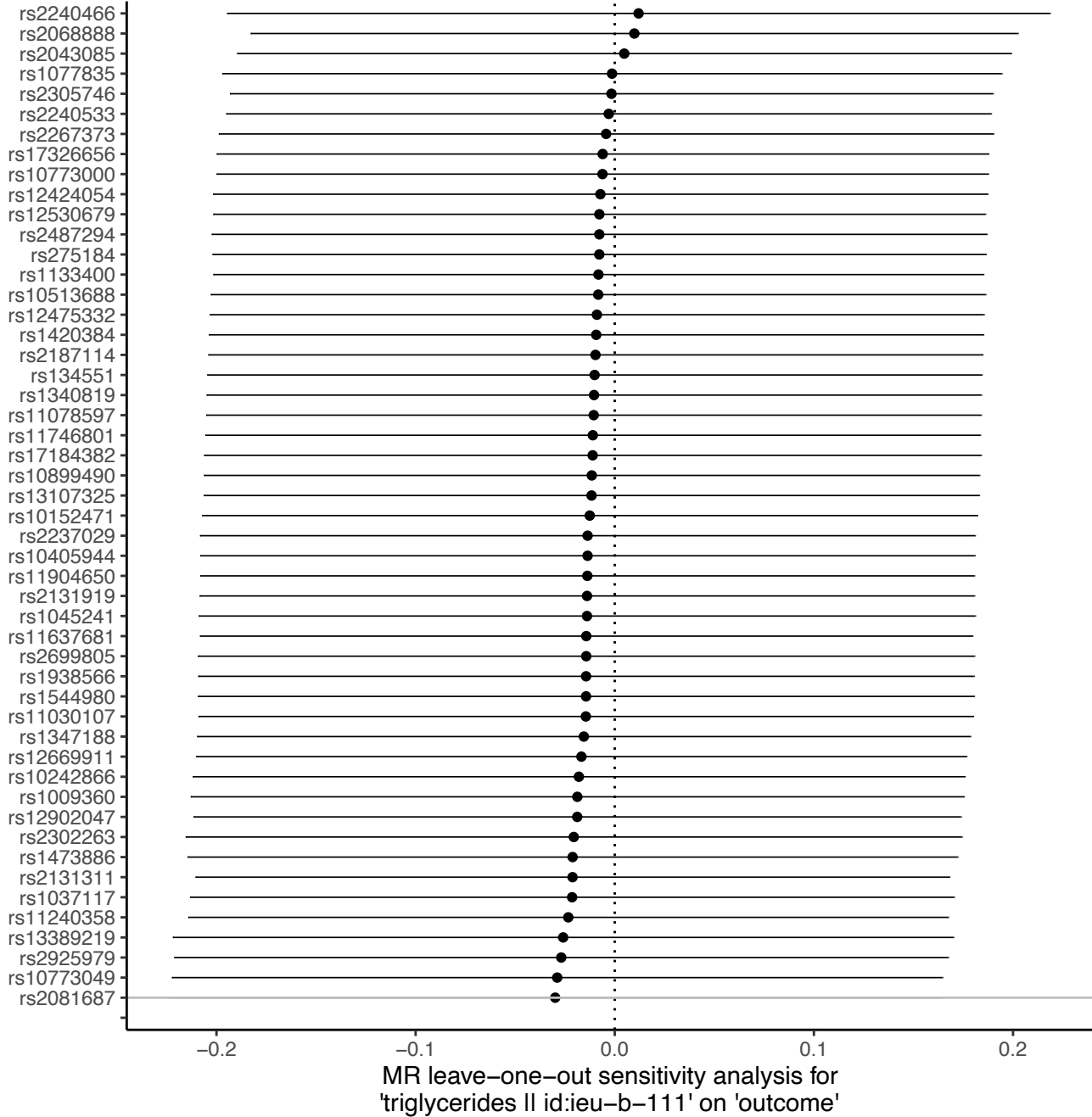


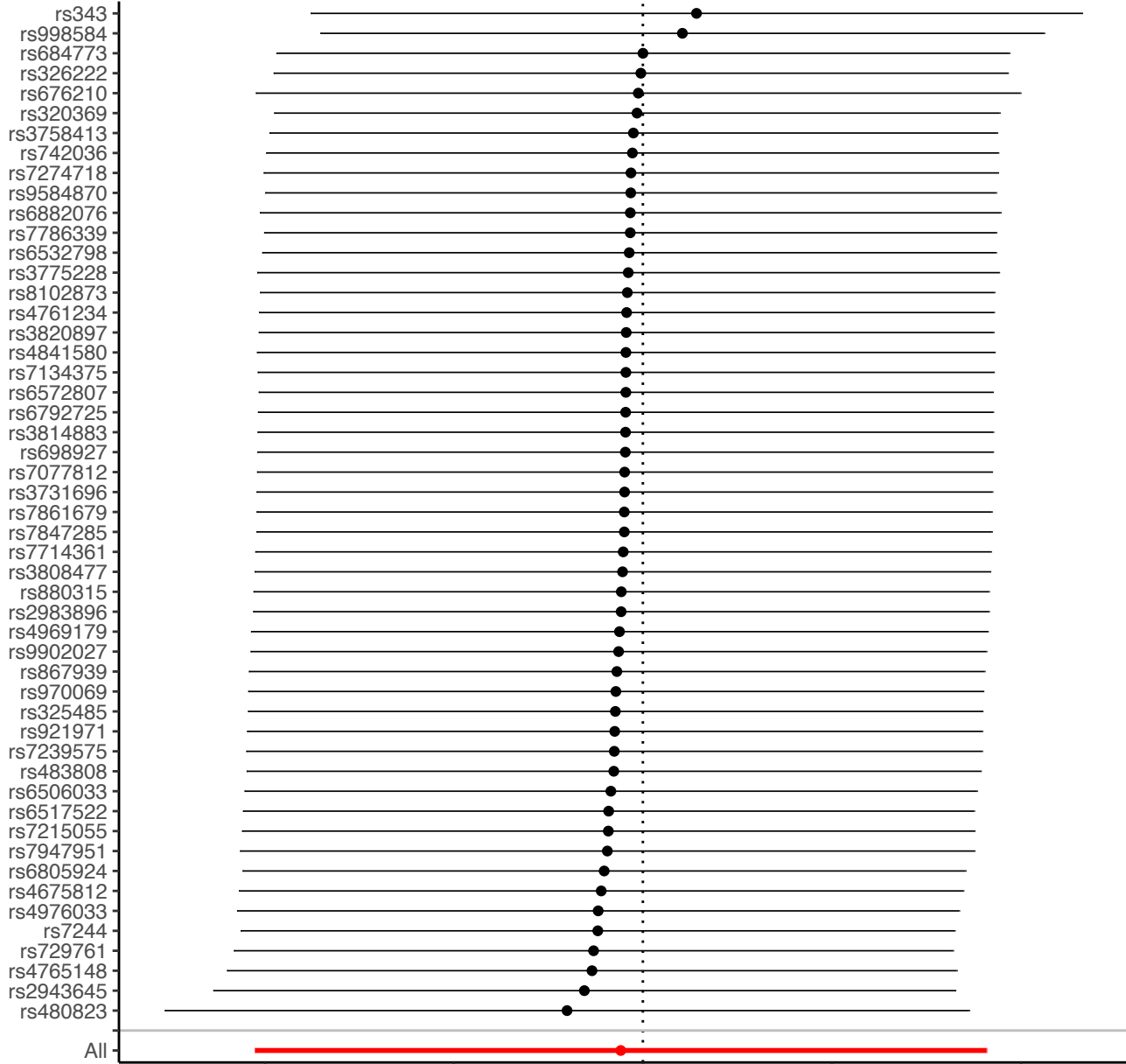
MR Method

Inverse variance weighted

MR Egger

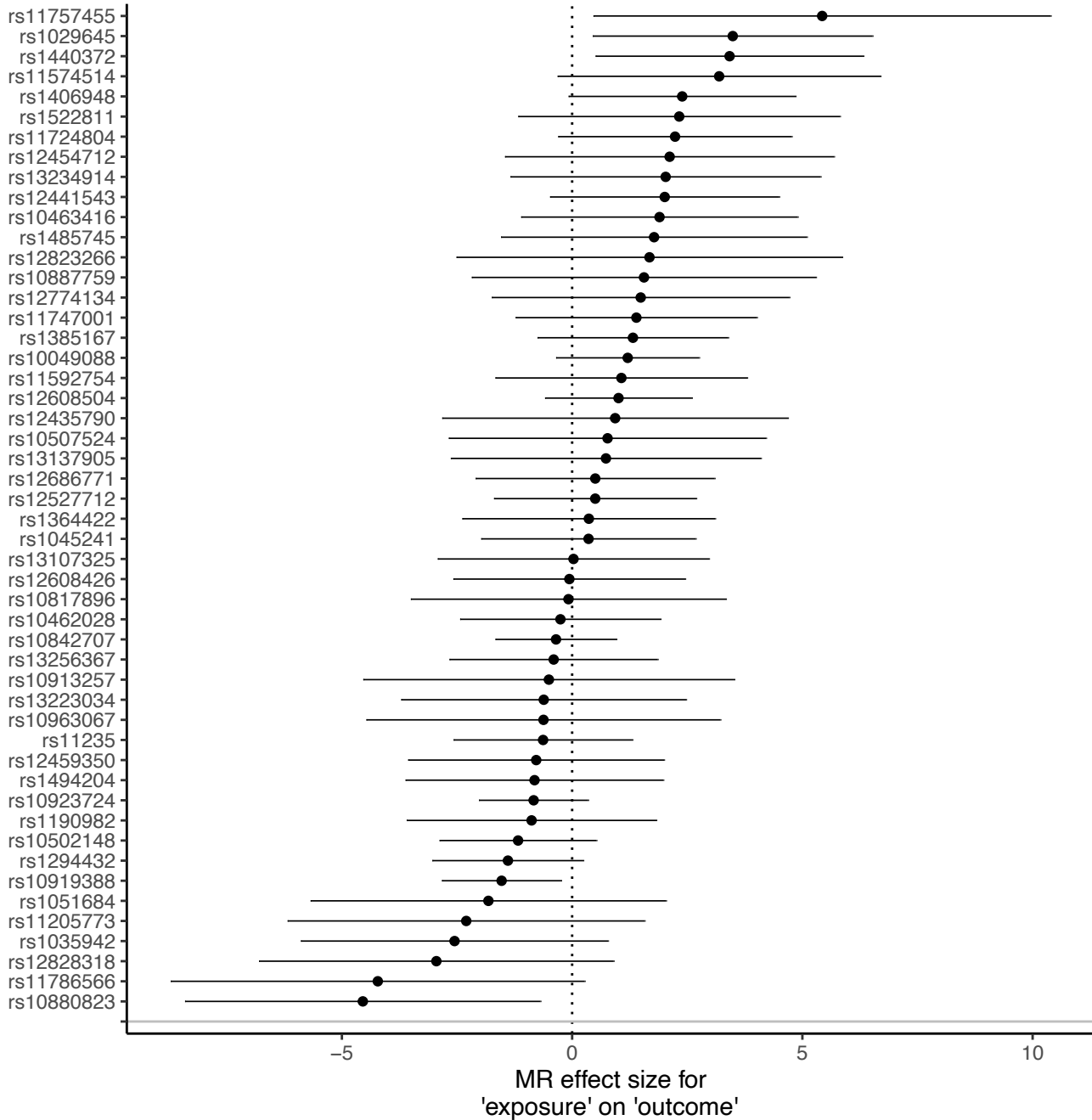


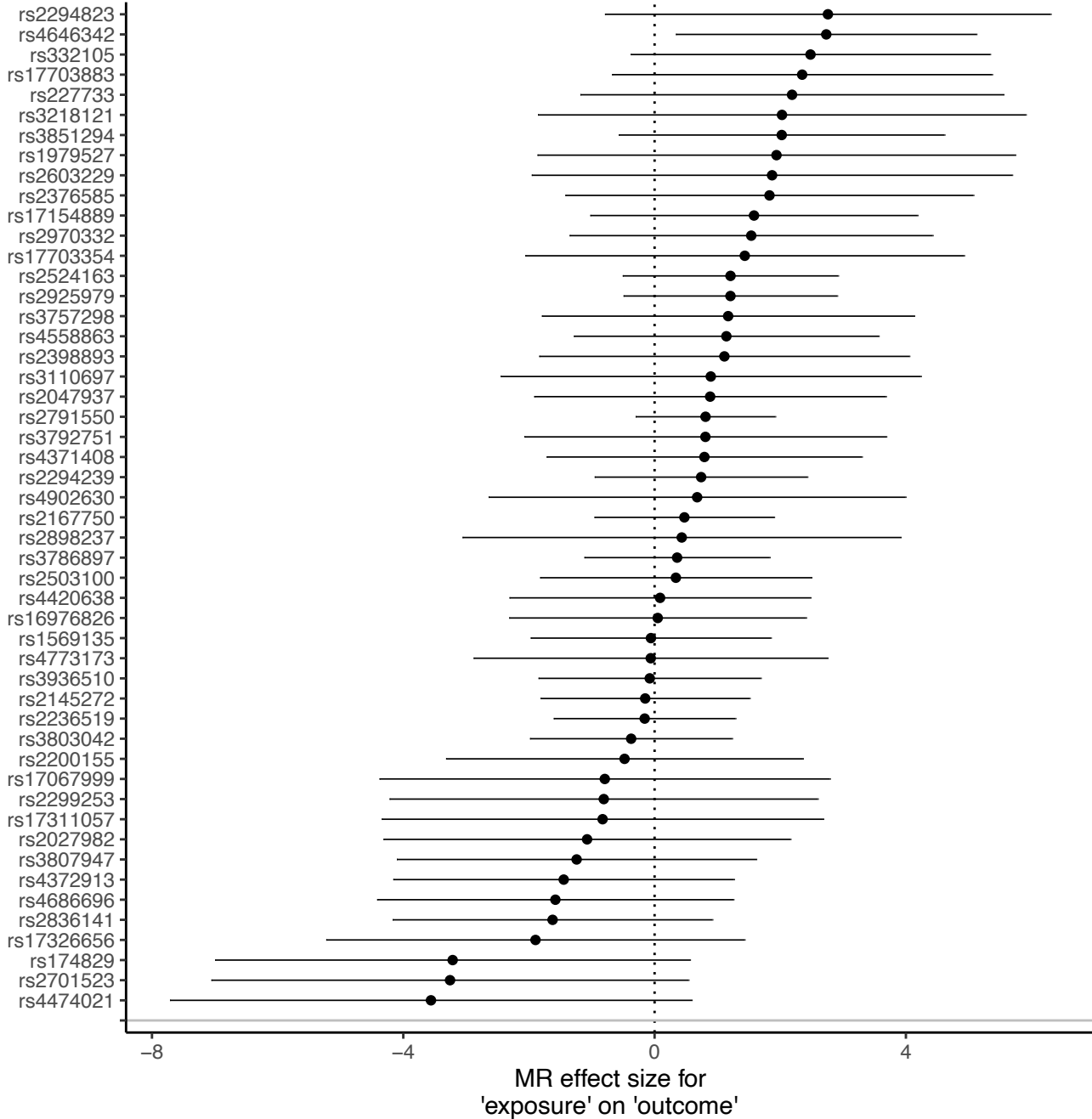




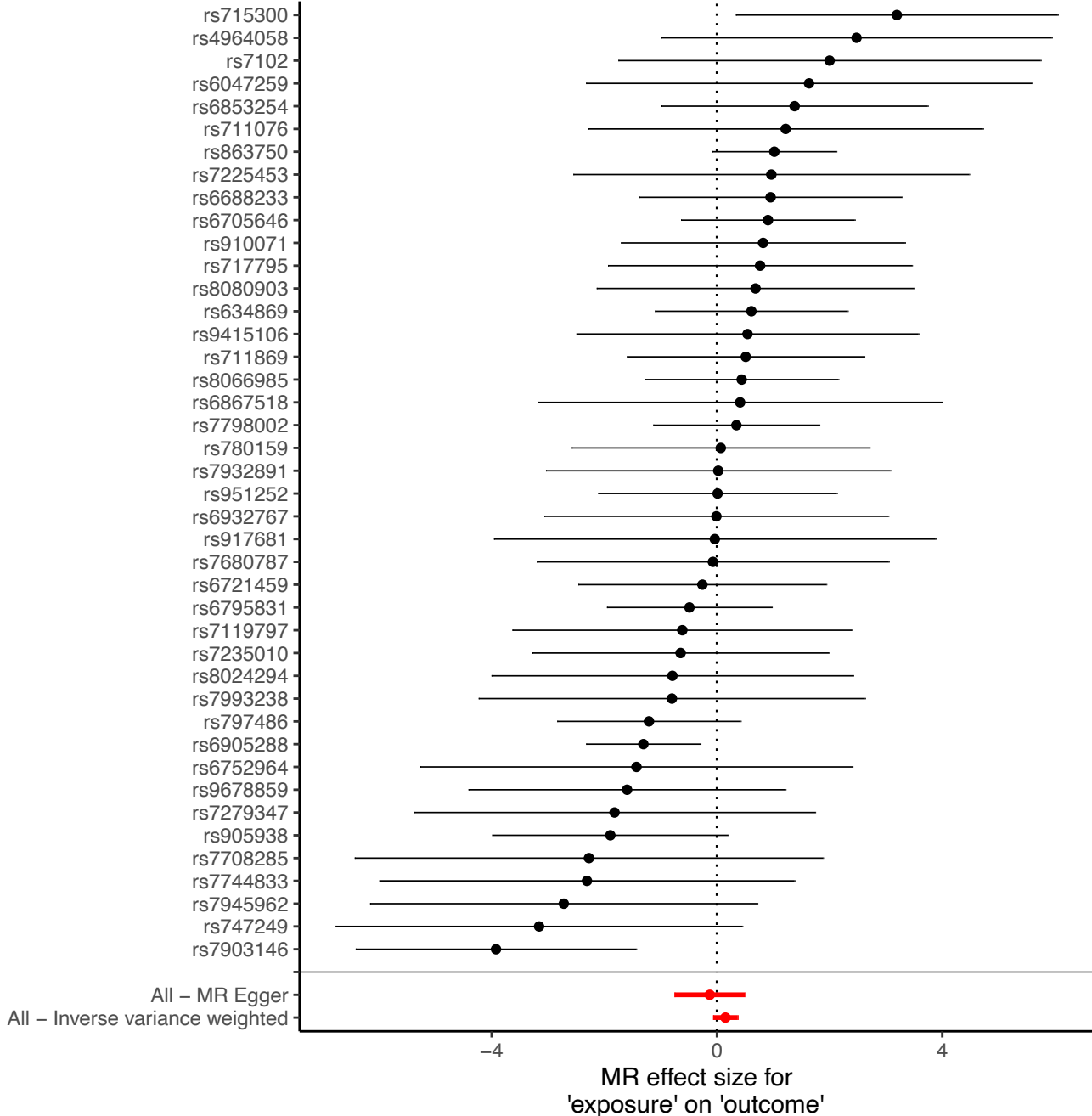
MR leave-one-out sensitivity analysis for  
'triglycerides II id:ieu-b-111' on 'outcome'

**Exposure: Waist-Hip Ratio adjusted for Body Mass Index, Outcome: Corrected Insulin Response**  
**Figures of Forest Plot, Comparison of Different MR Methods, Funnel Plot and Leave-one-out Sensitivity Analysis**



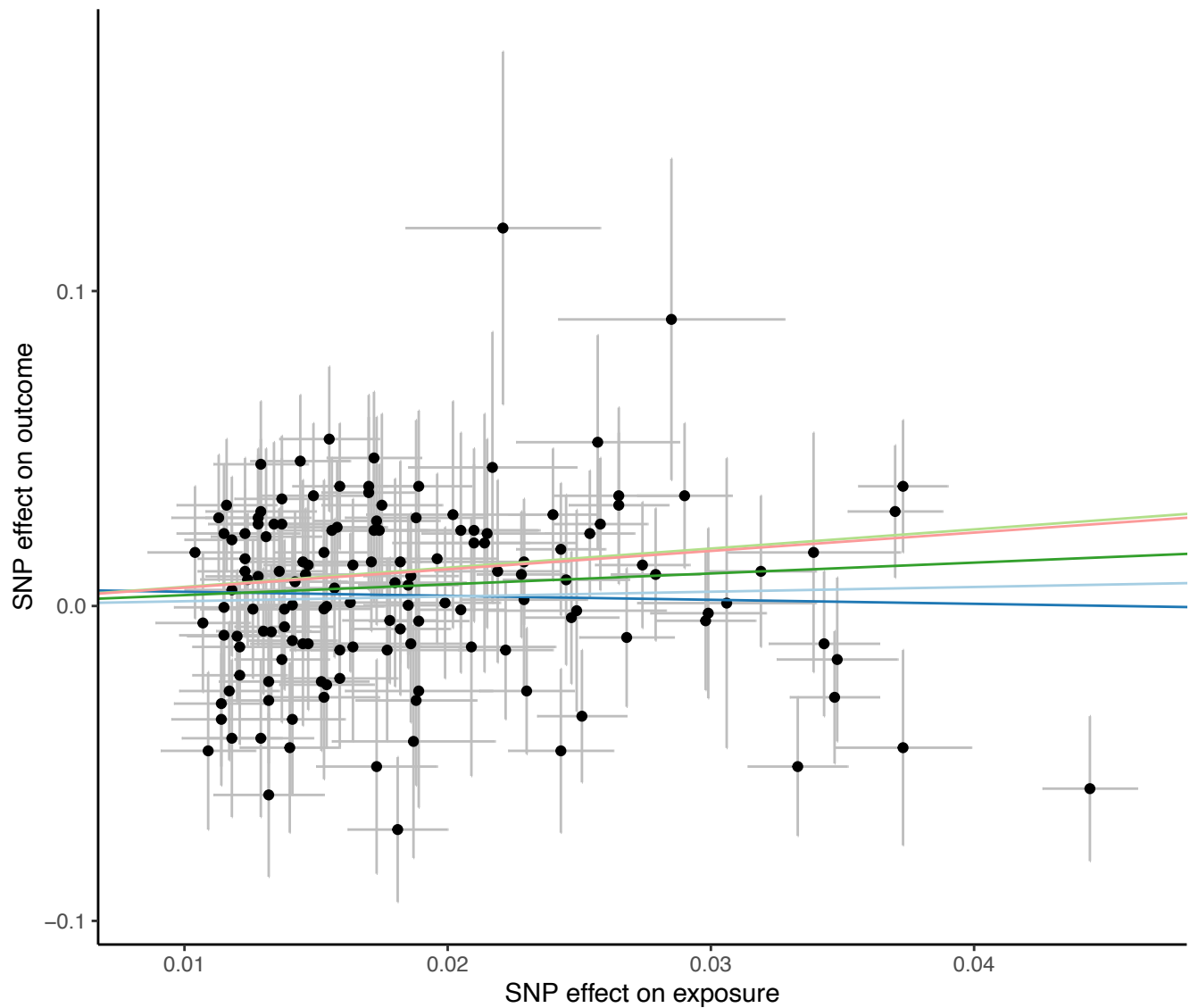






MR Test

- Inverse variance weighted
- MR Egger
- Simple mode
- Weighted median
- Weighted mode



MR Method

Inverse variance weighted

MR Egger

