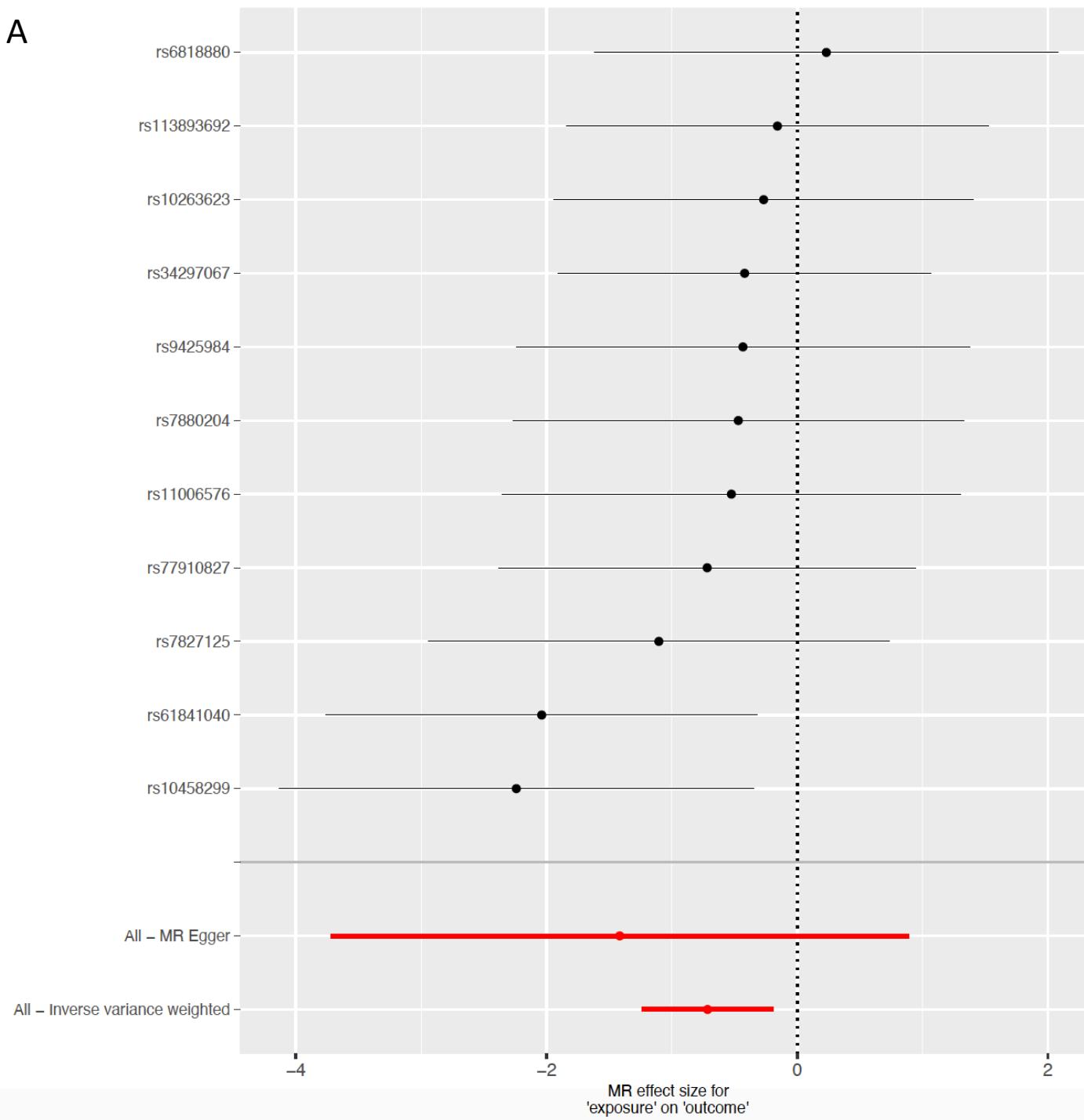
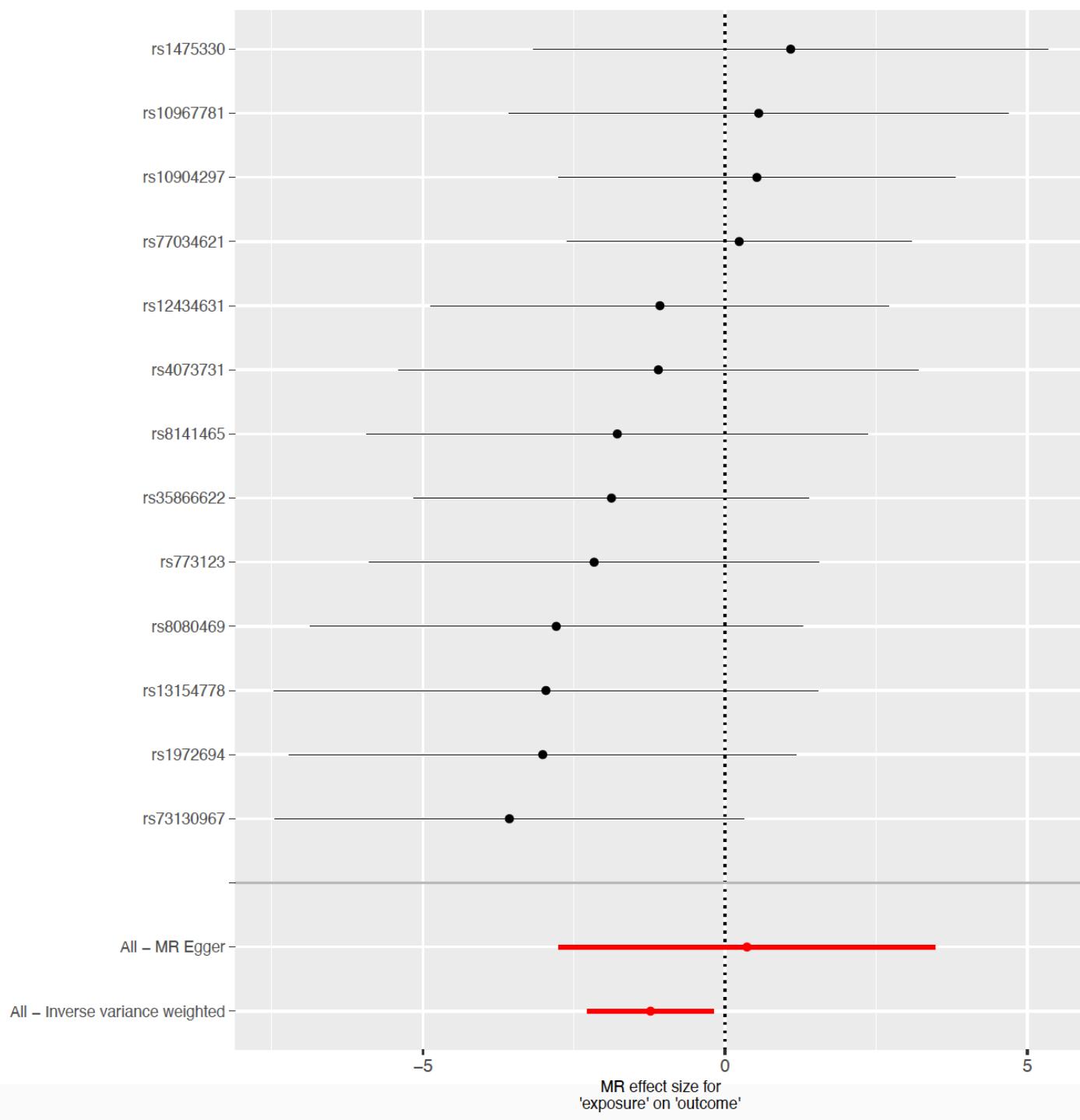


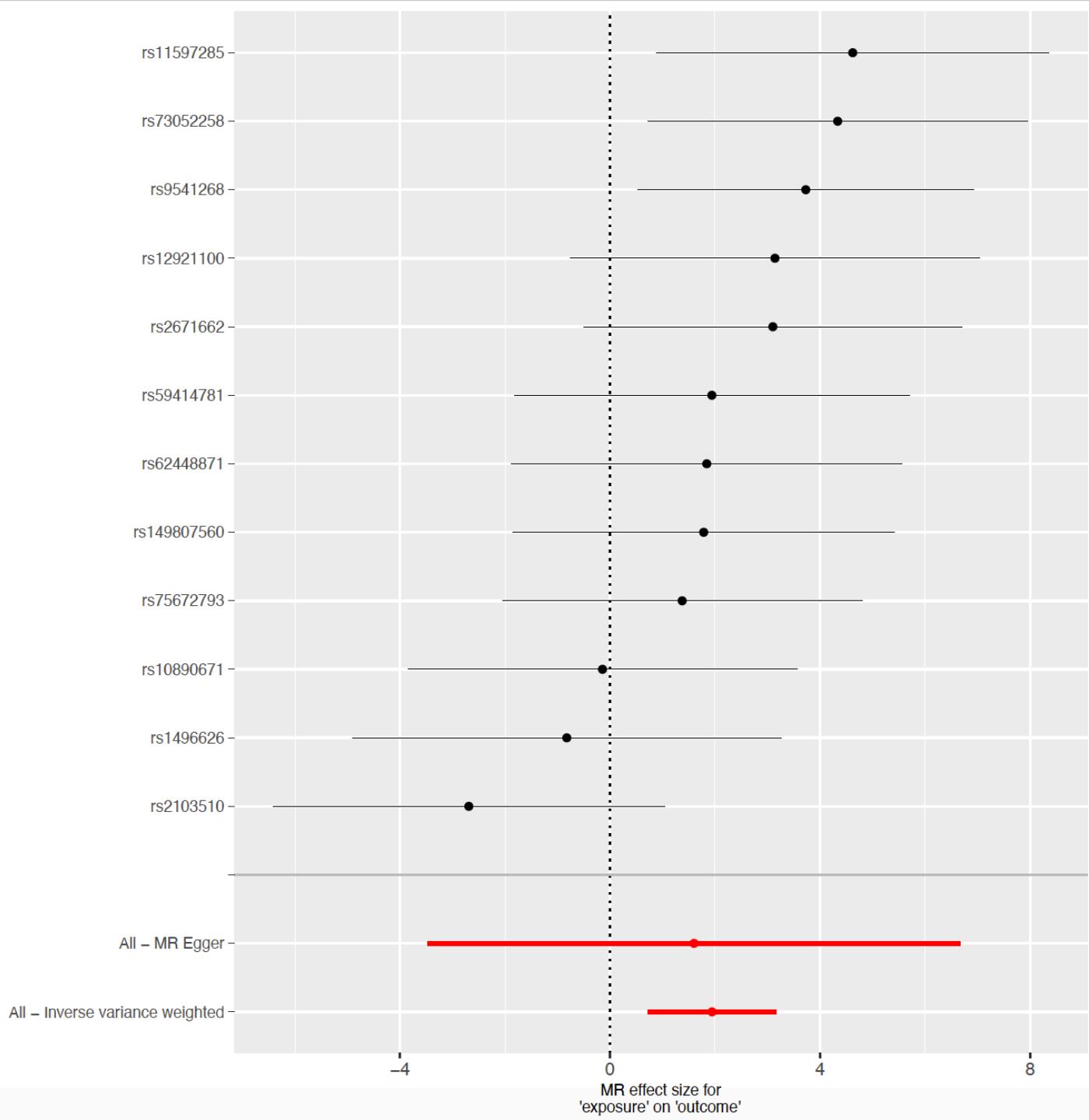
**Supplementary Figure 1 Forest plot for the causal association between specific gut microbiota taxa and gallbladder cancer (GC)/extrahepatic cholangiocarcinoma (eCCA) in Mendelian randomization (MR) analyses.**

(A) genus *Eubacteriumnodatum* group, (B) genus *Ruminococcustorques* group, (C) genus *Collinsella*, (D) genus *Coprococcus*, (E) genus *Dorea*, (F) genus *Eisenbergiella*, (G) phylum *Actinobacteria*.

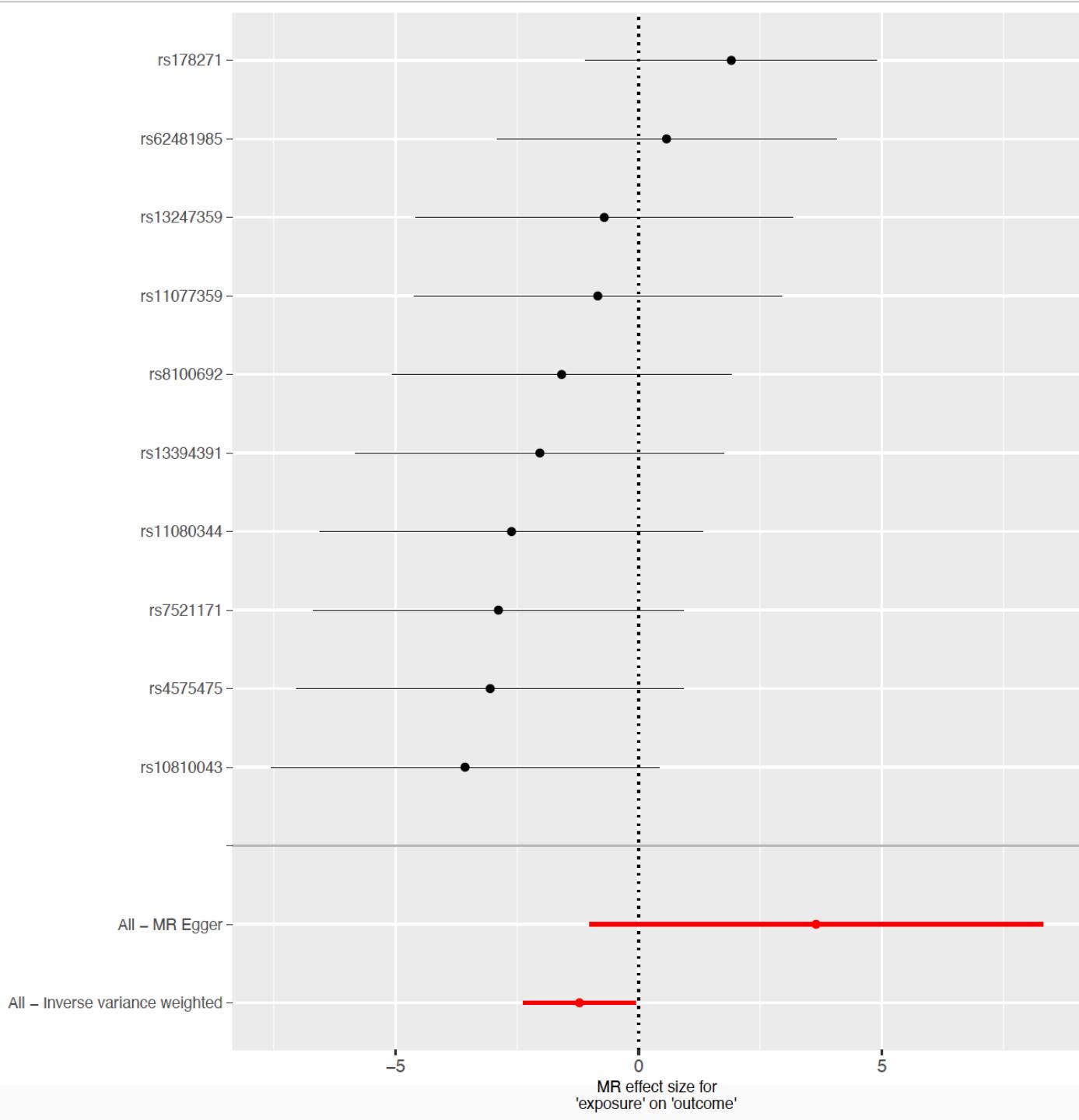
**A**

**B**

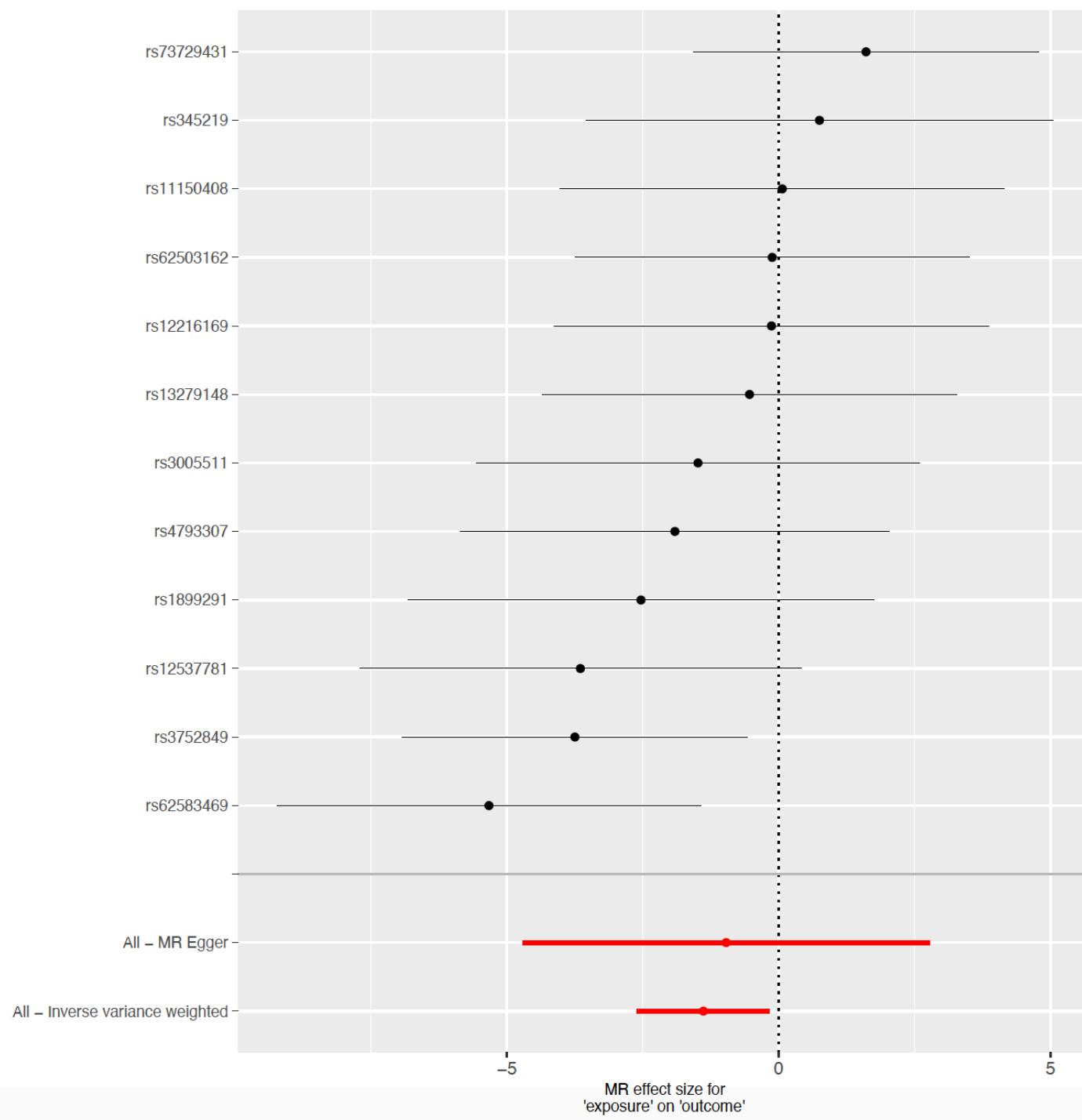
C



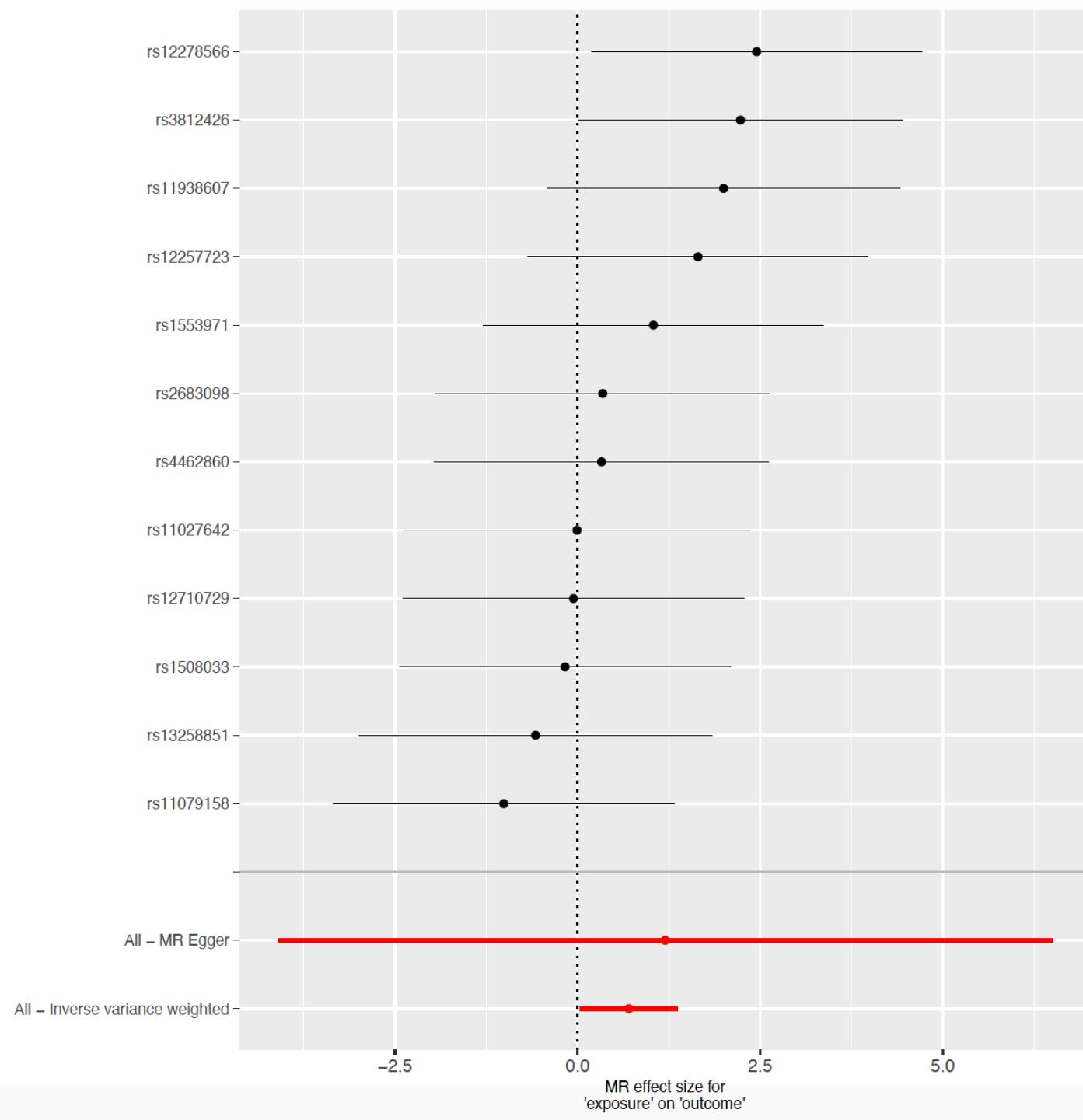
D

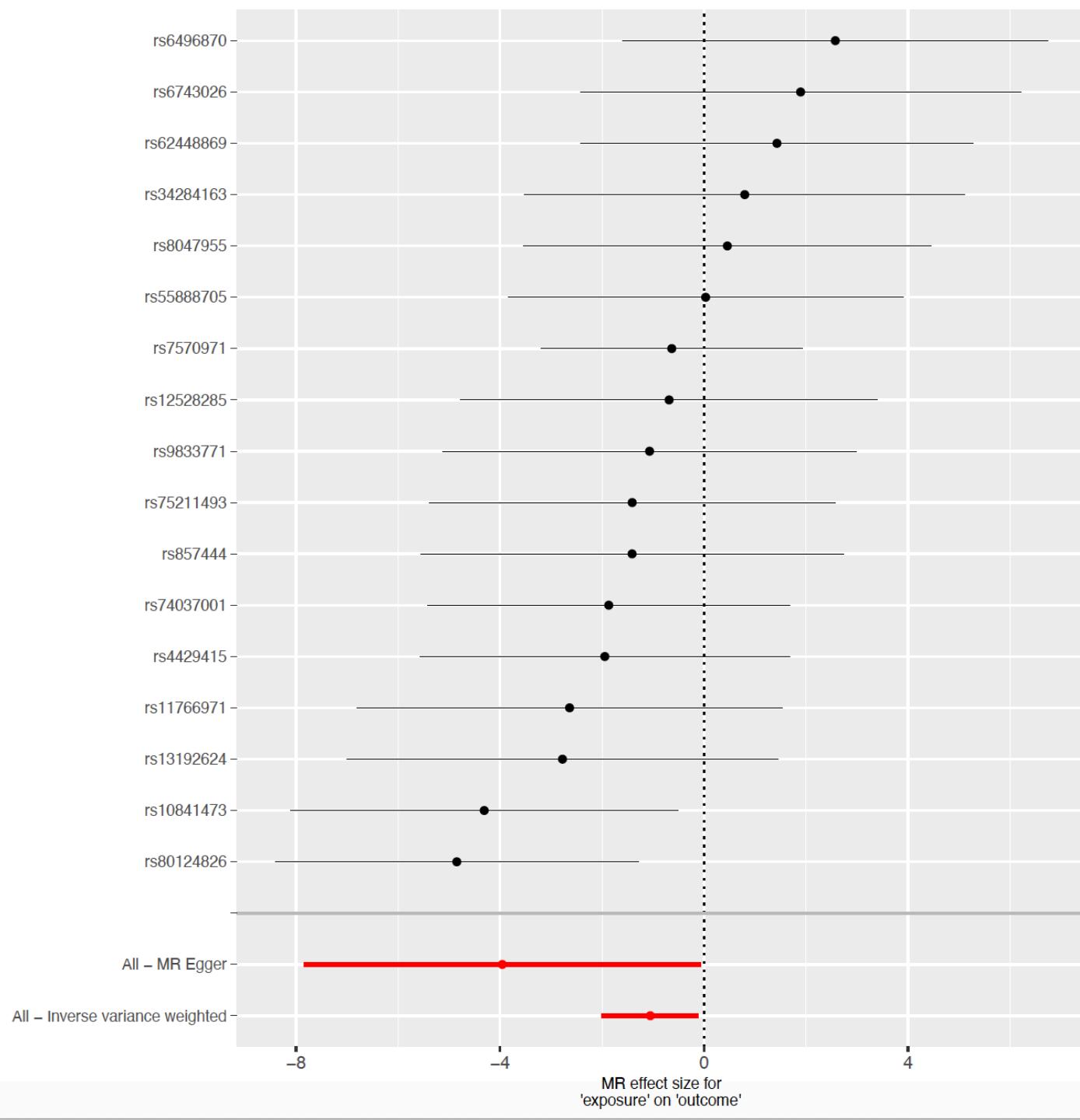


E



F

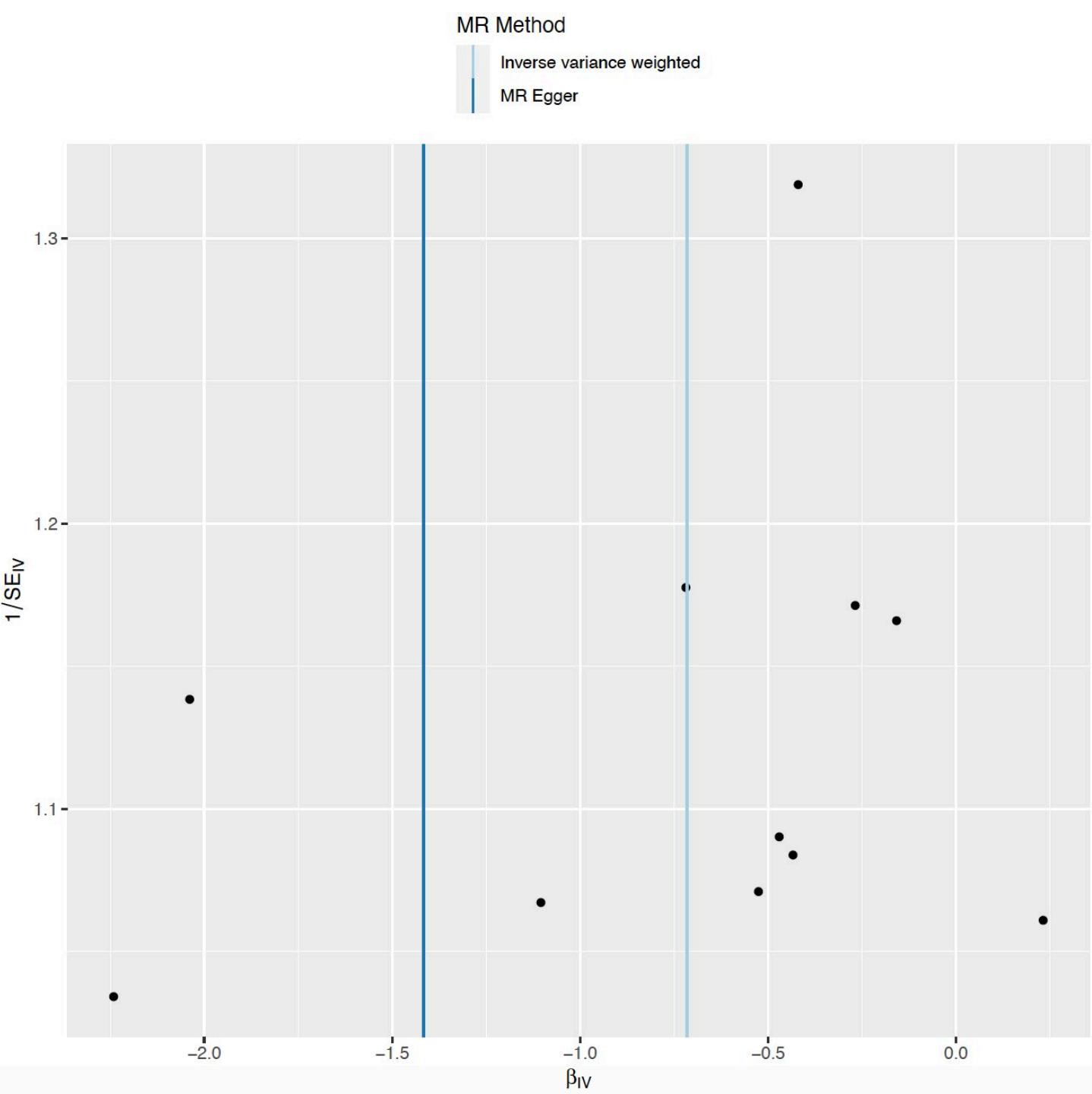


**G**

**Supplementary Figure2 Funnel plot for the causal association between specific gut microbiota taxa and gallbladder cancer (GC)/extrahepatic cholangiocarcinoma (eCCA) in Mendelian randomization (MR) analyses.**

(A) genus *Eubacteriumnodatum* group, (B) genus *Ruminococcustorques* group, (C) genus *Collinsella*, (D) genus *Coprococcus*, (E) genus *Dorea*, (F) genus *Eisenbergiella*, (G) phylum *Actinobacteria*.

A

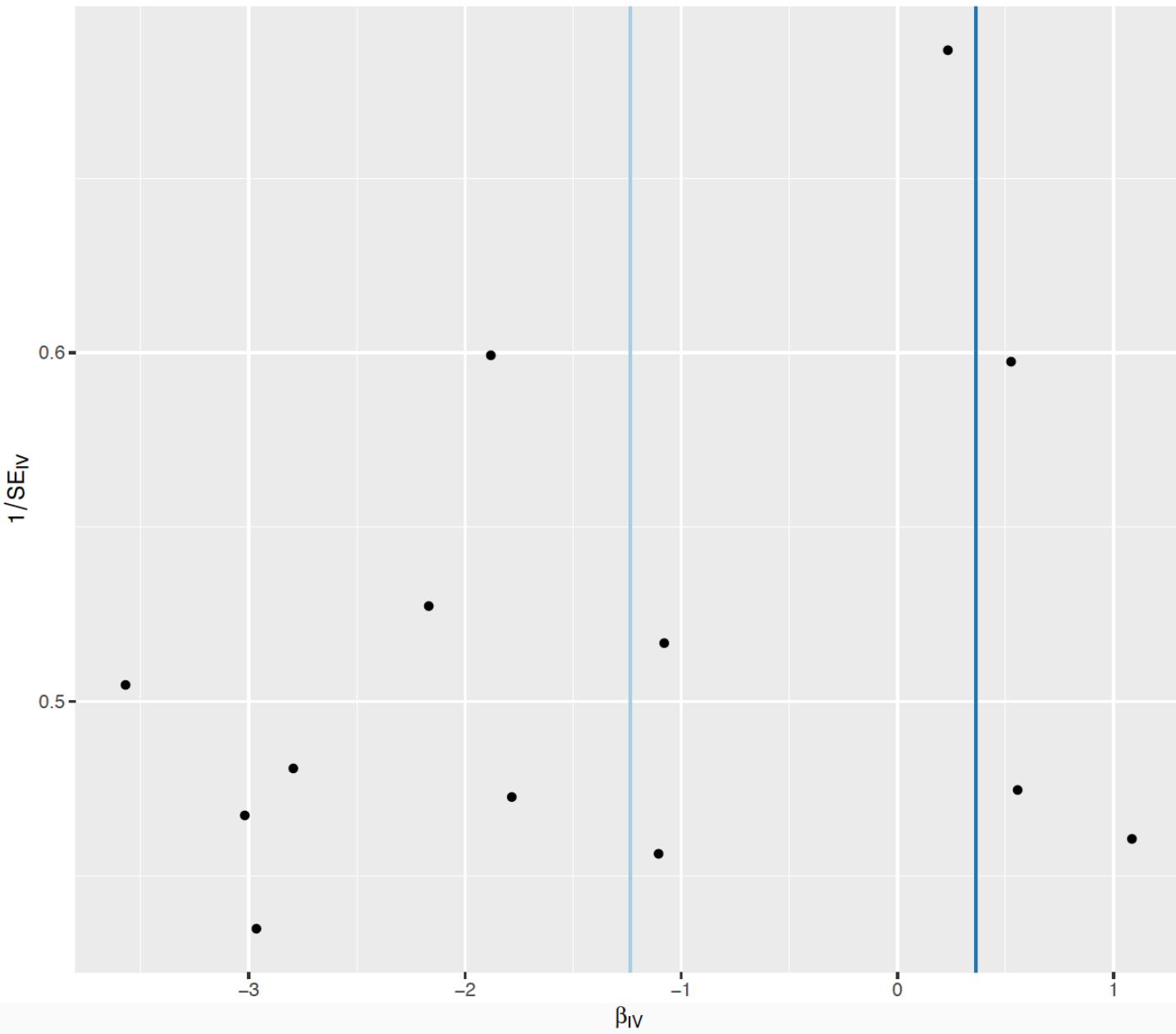


B

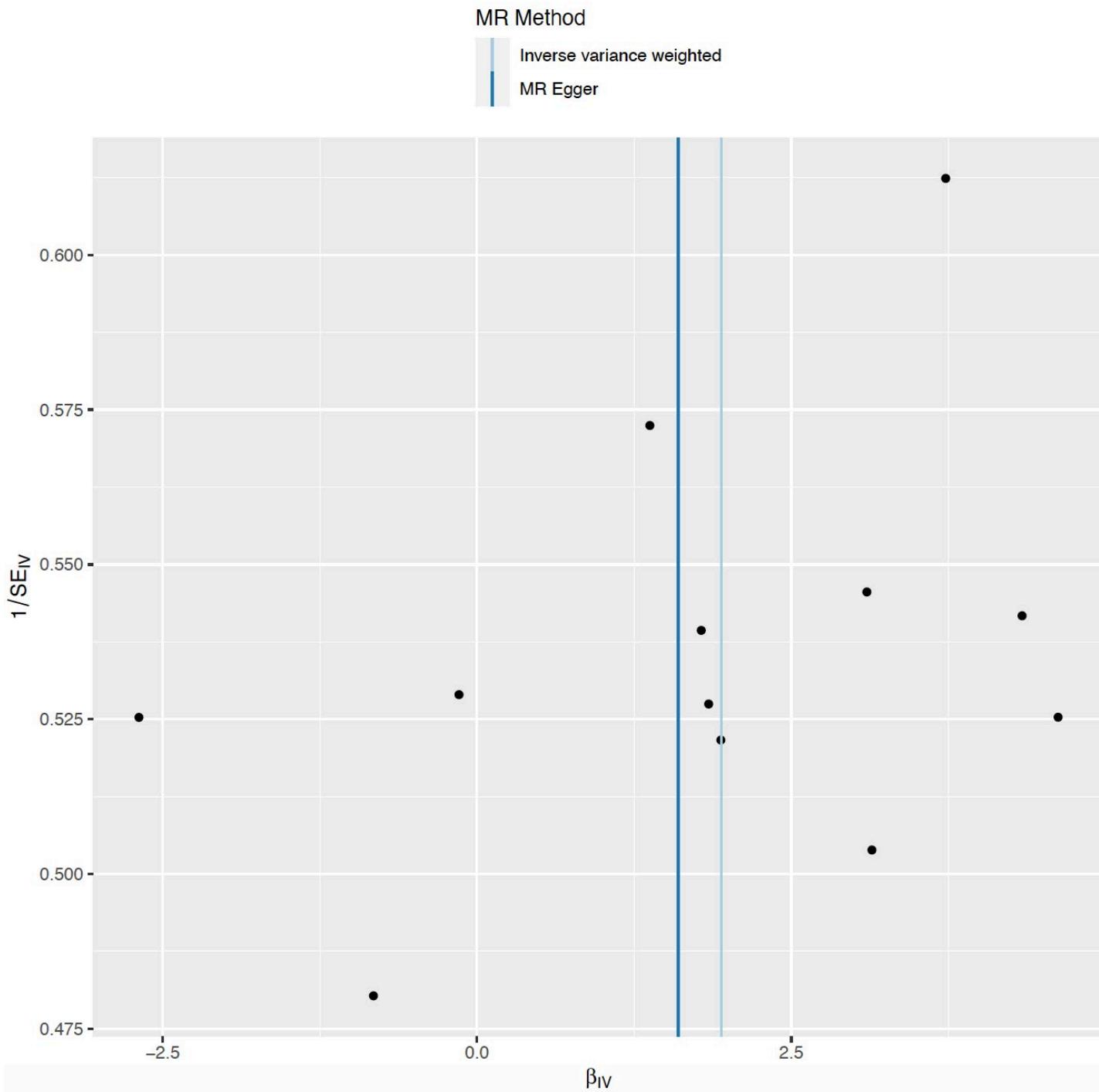
MR Method

Inverse variance weighted

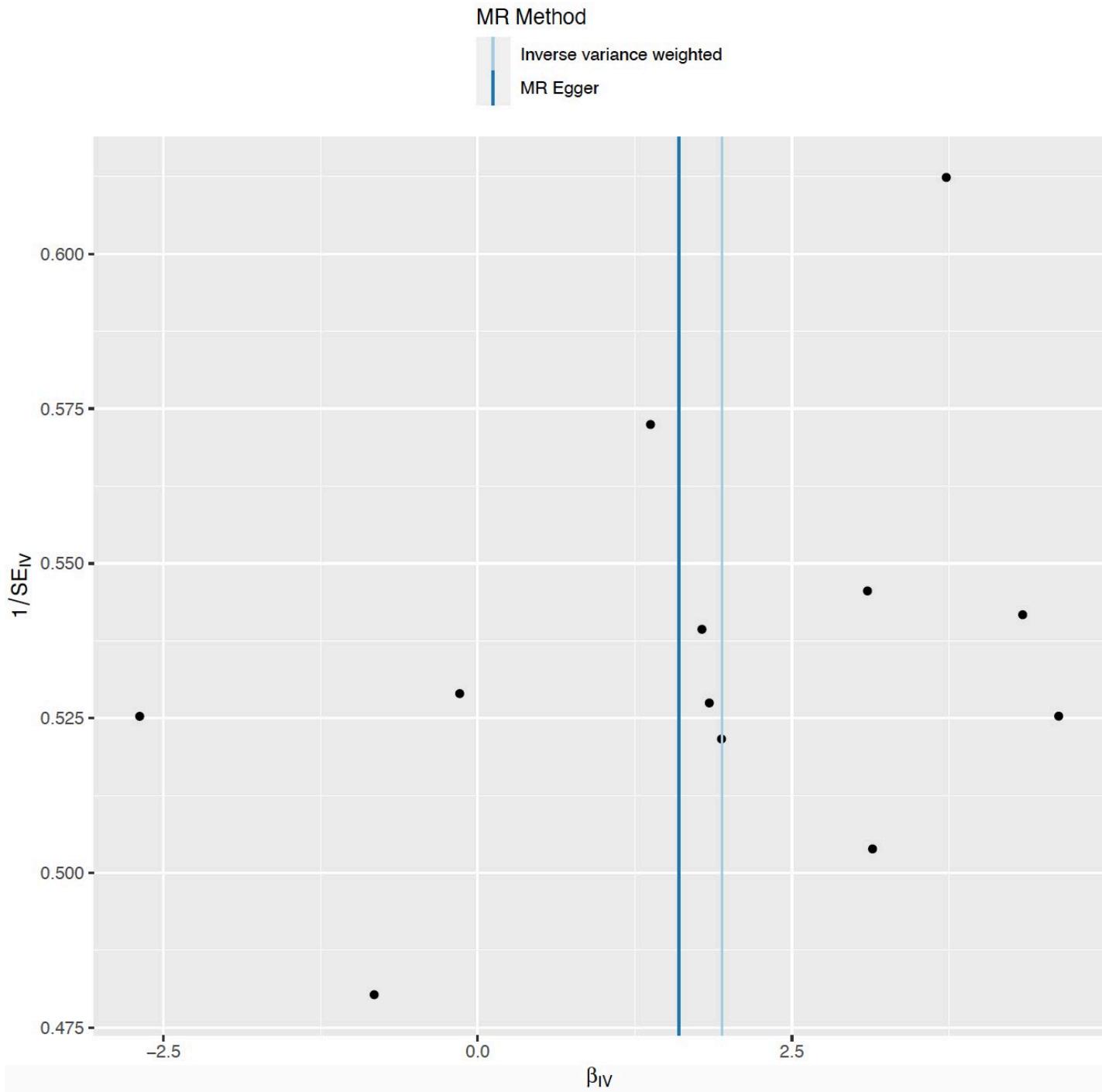
MR Egger



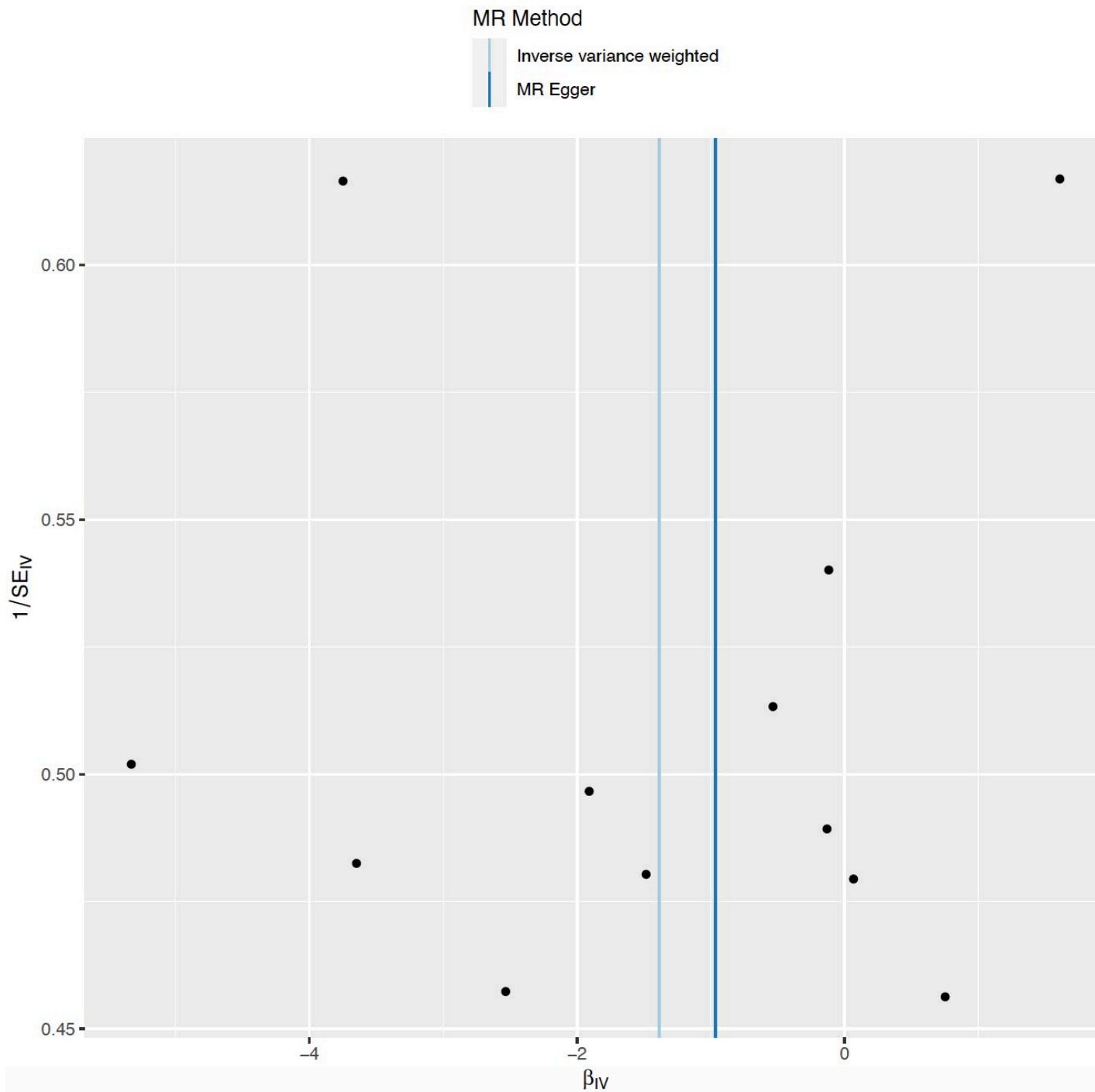
C



D



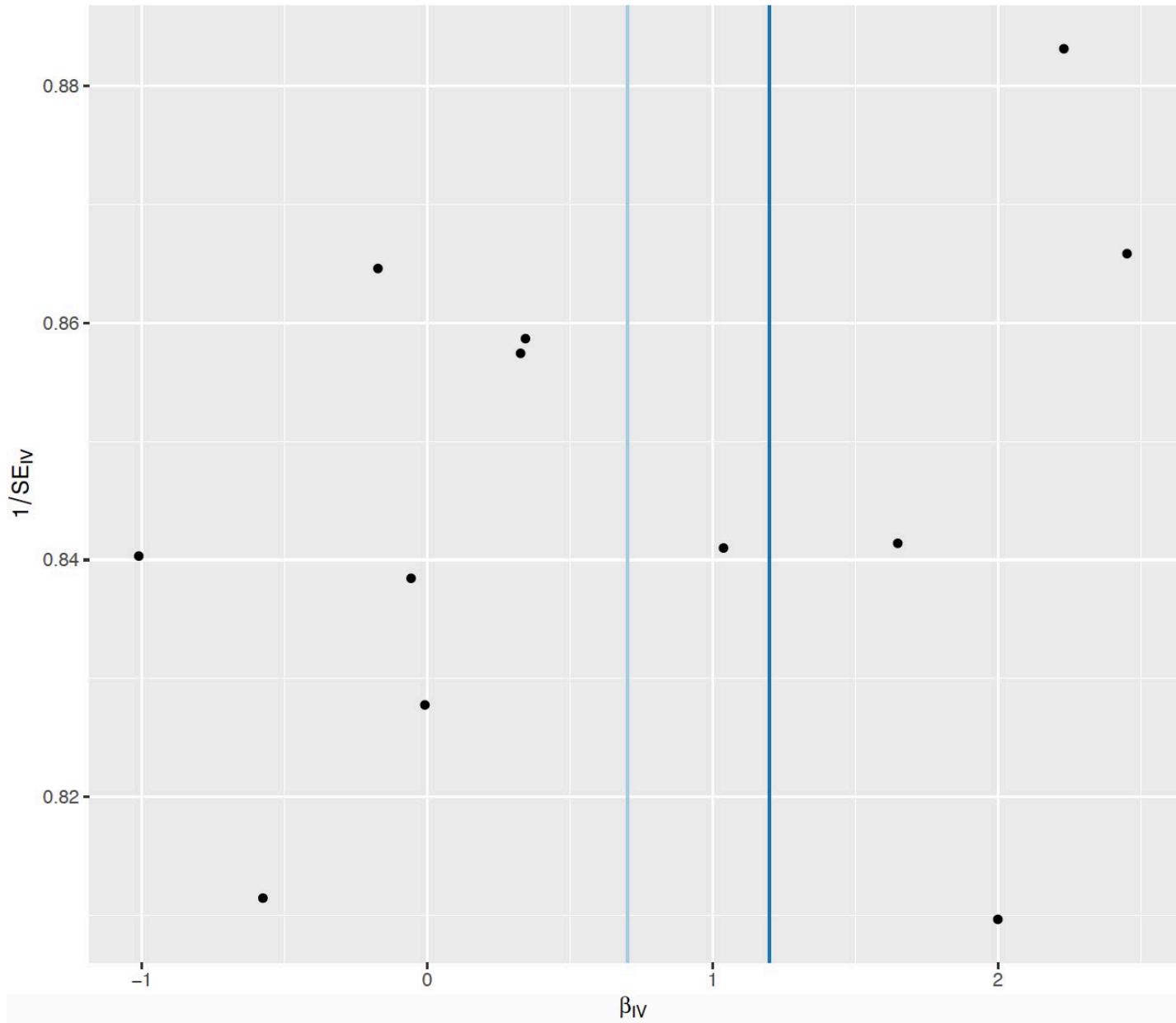
E



F

## MR Method

- Inverse variance weighted
- MR Egger

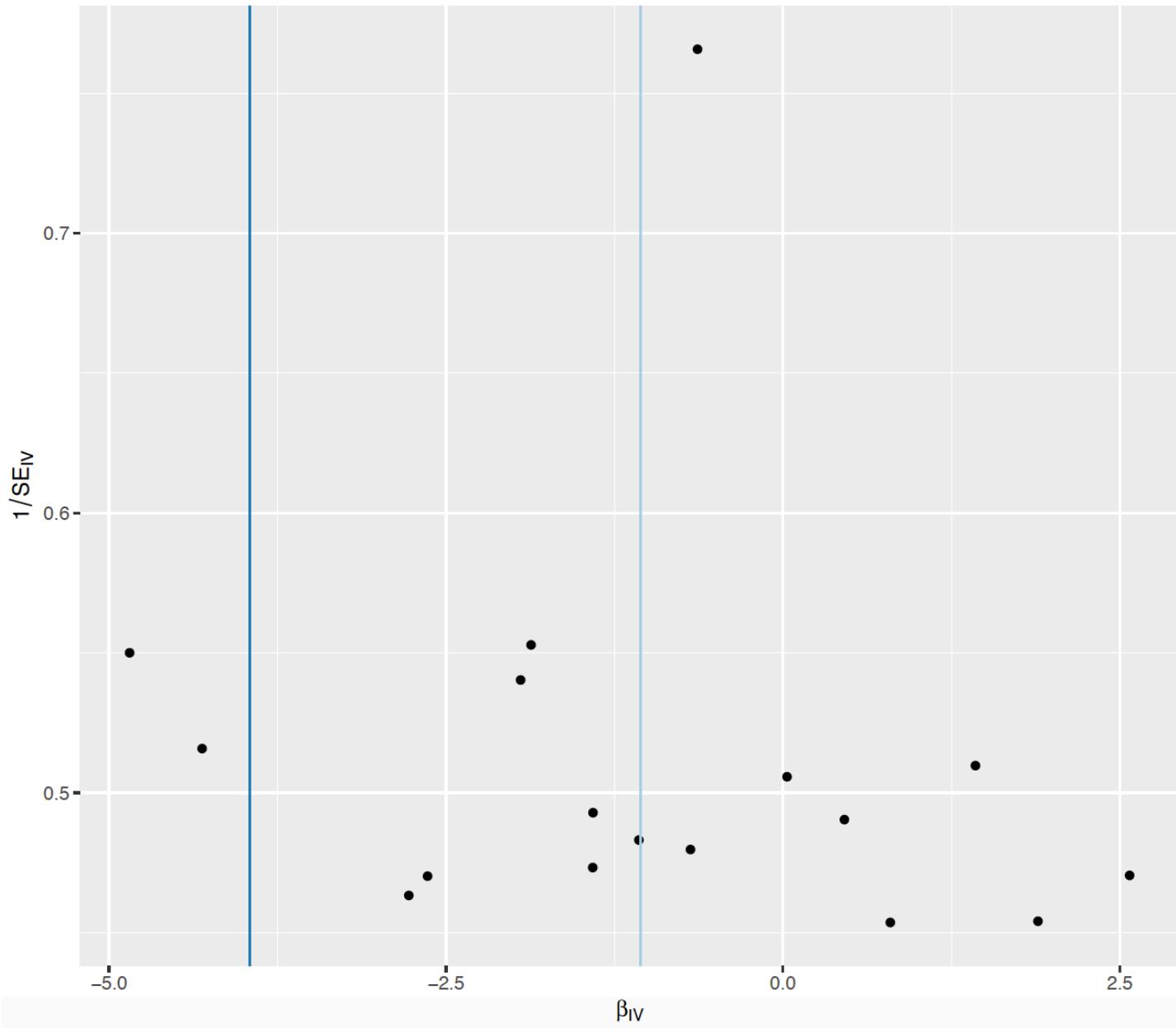


G

MR Method

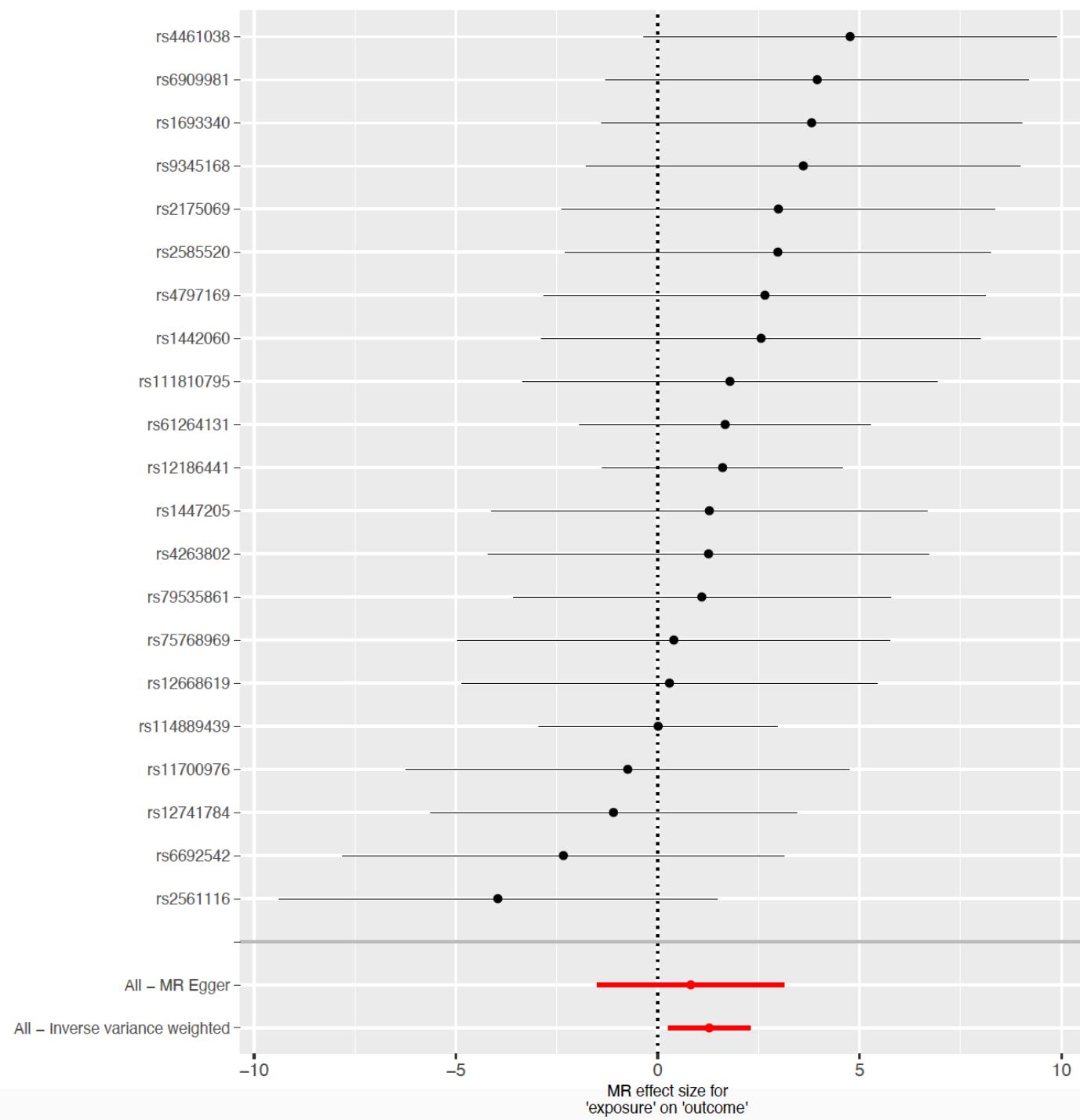
Inverse variance weighted

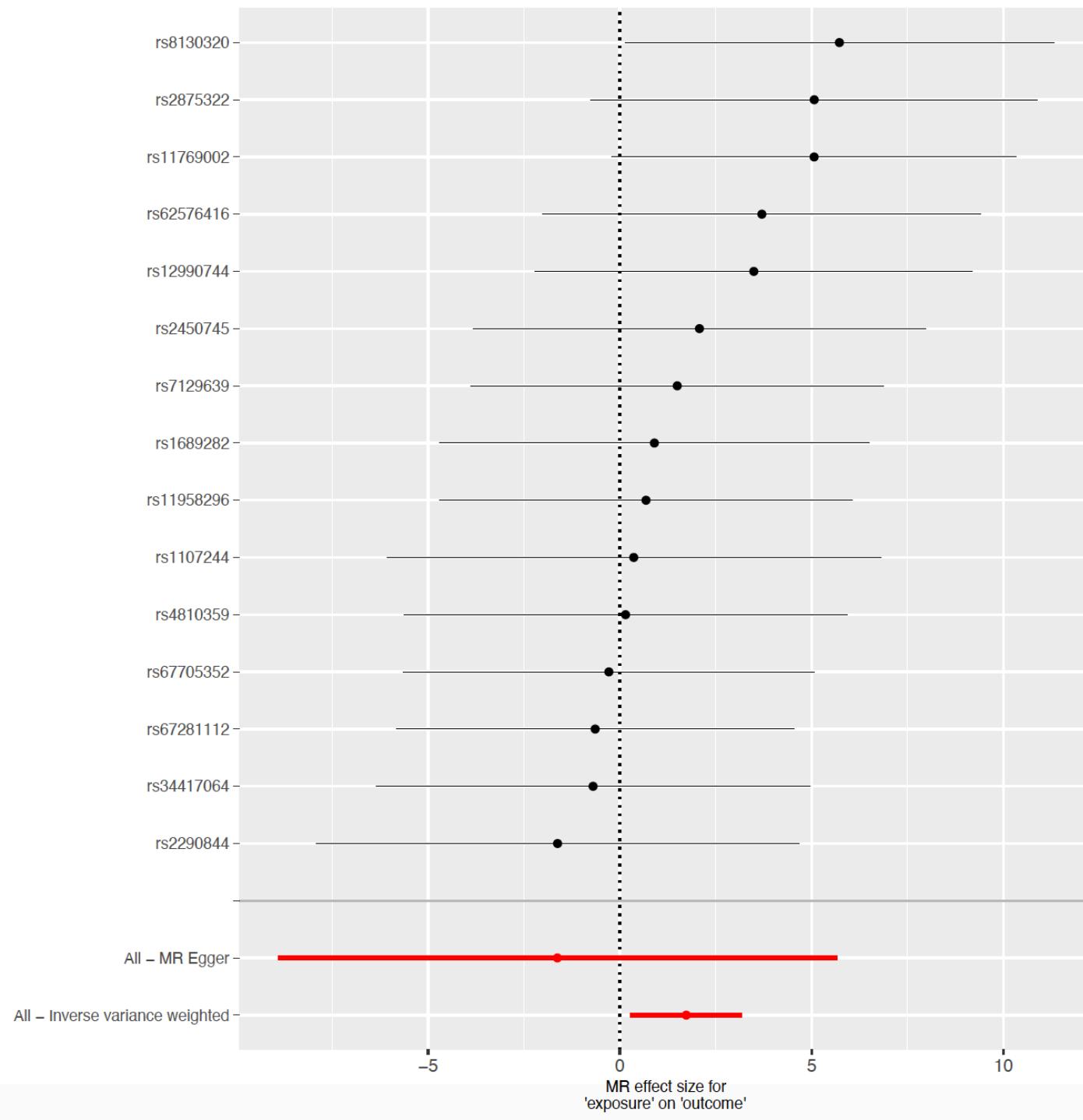
MR Egger



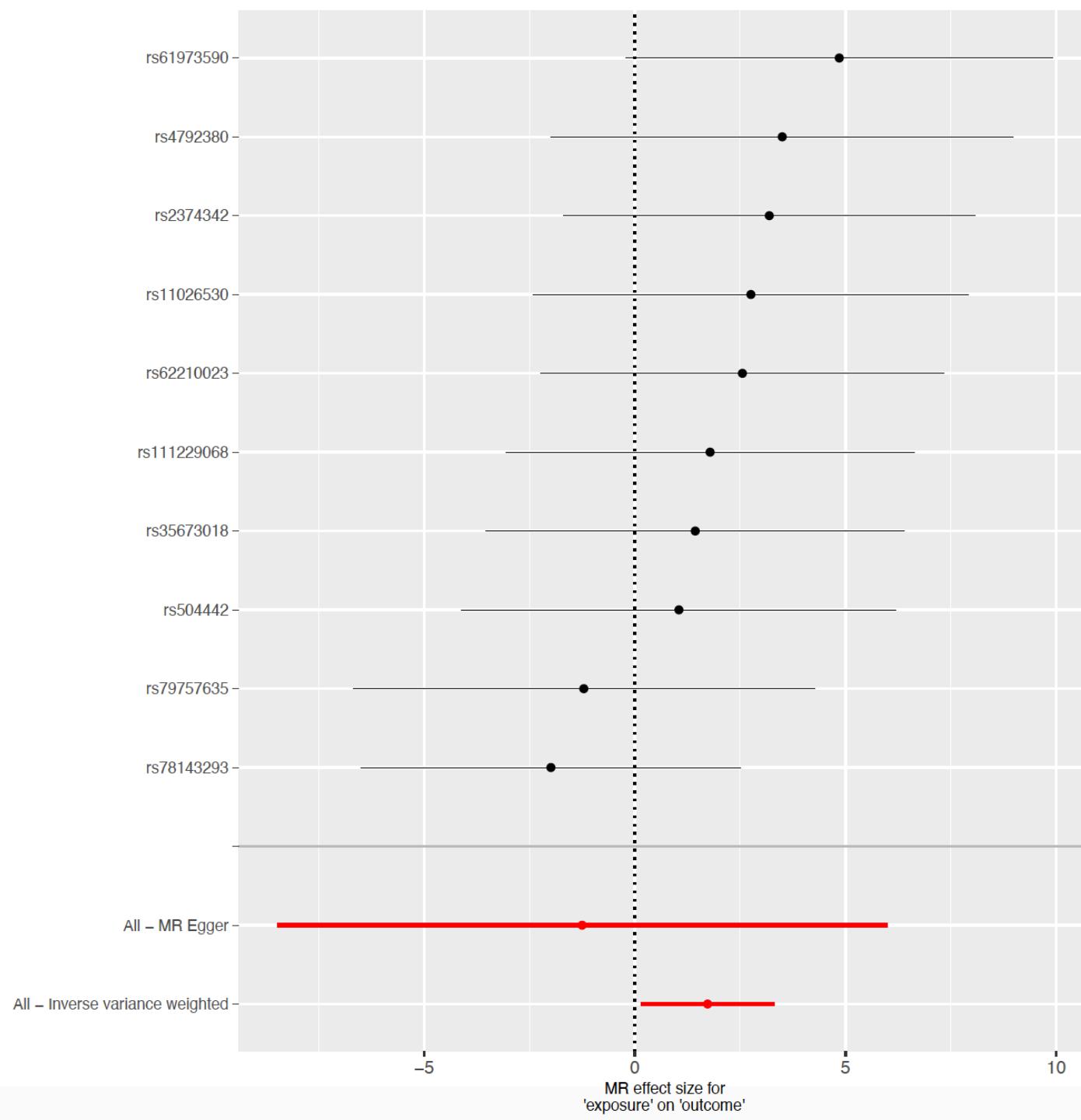
**Supplementary Figure 3 Forest plot for the causal association between specific gut microbiota taxa and intrahepatic cholangiocarcinoma (iCCA) in Mendelian randomization (MR) analyses.**

(A) genus *Eubacteriumnodatum* group, (B) genus *Ruminococcustorques* group, (C) genus *Collinsella*, (D) genus *Coprococcus*, (E) genus *Dorea*, (F) genus *Eisenbergiella*, (G) phylum *Actinobacteria*.

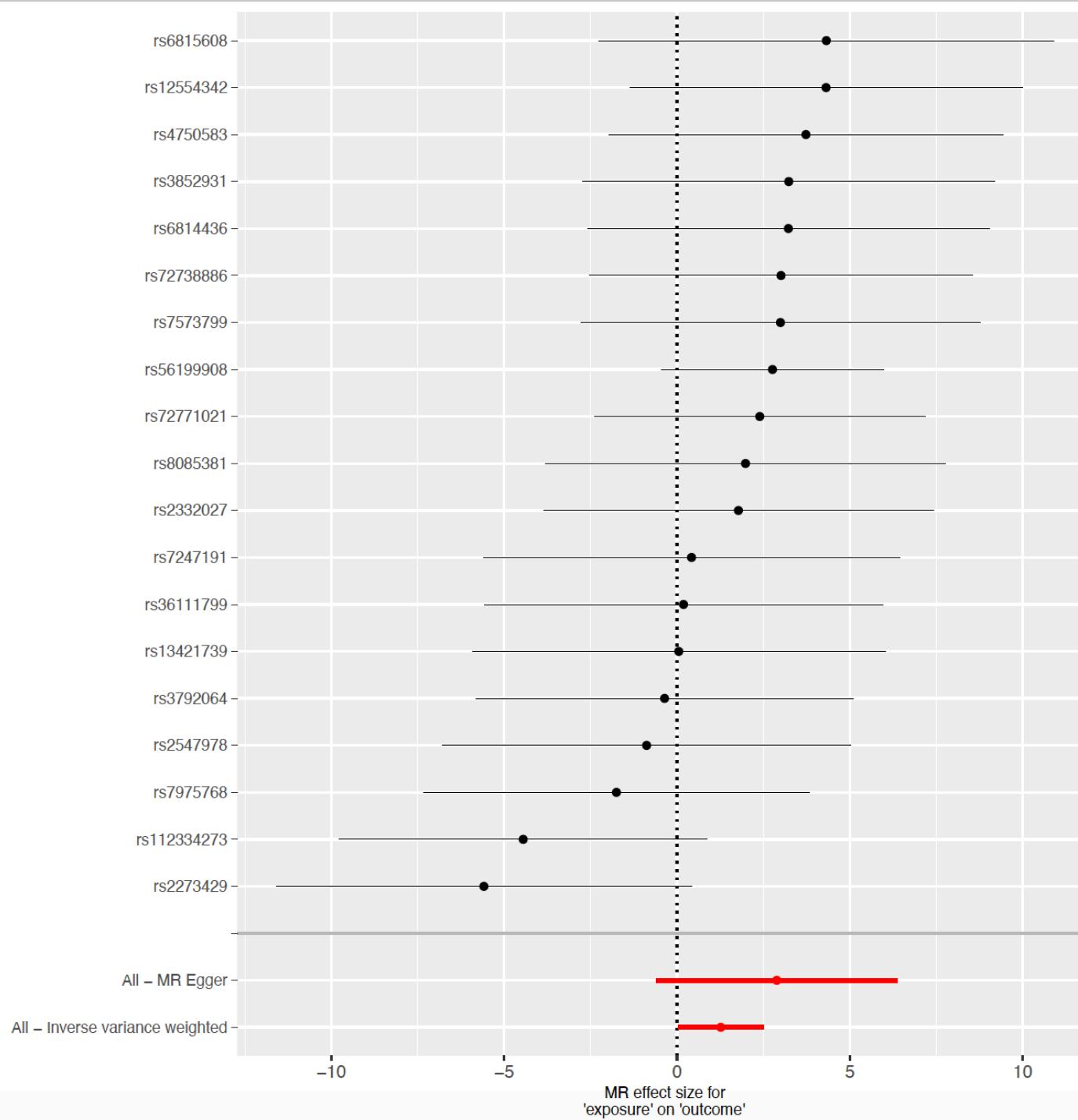
**A**

**B**

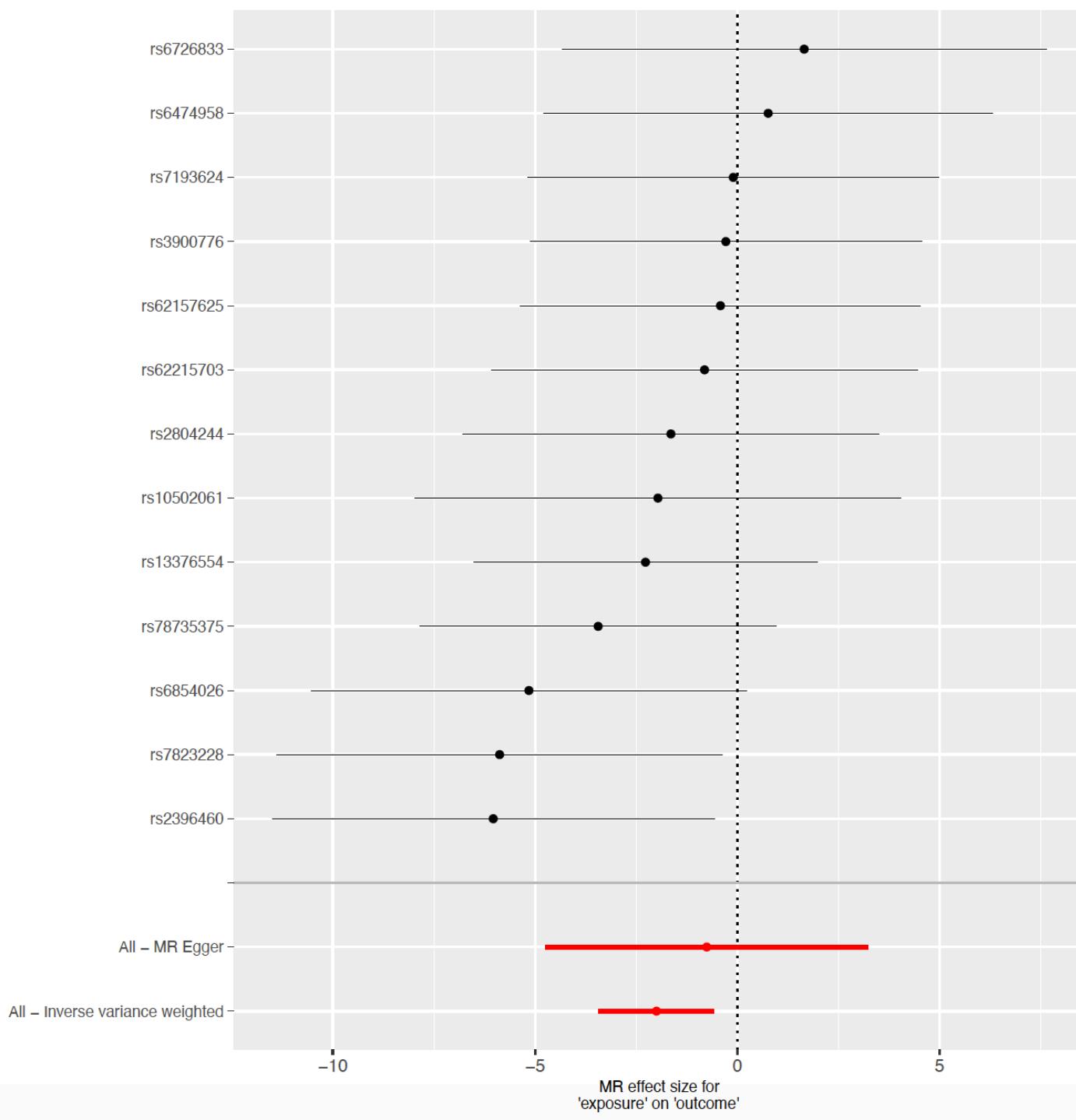
C



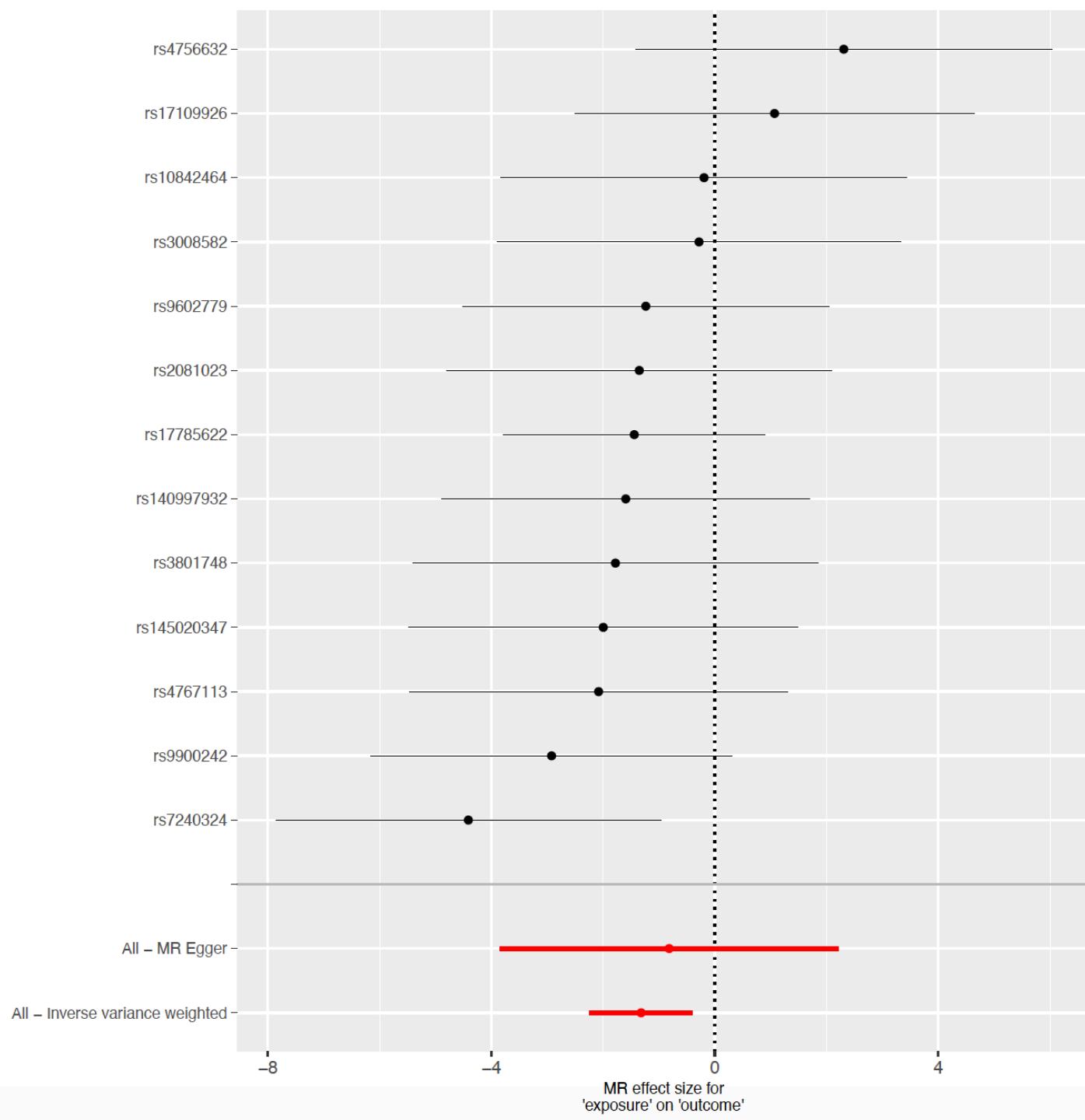
D



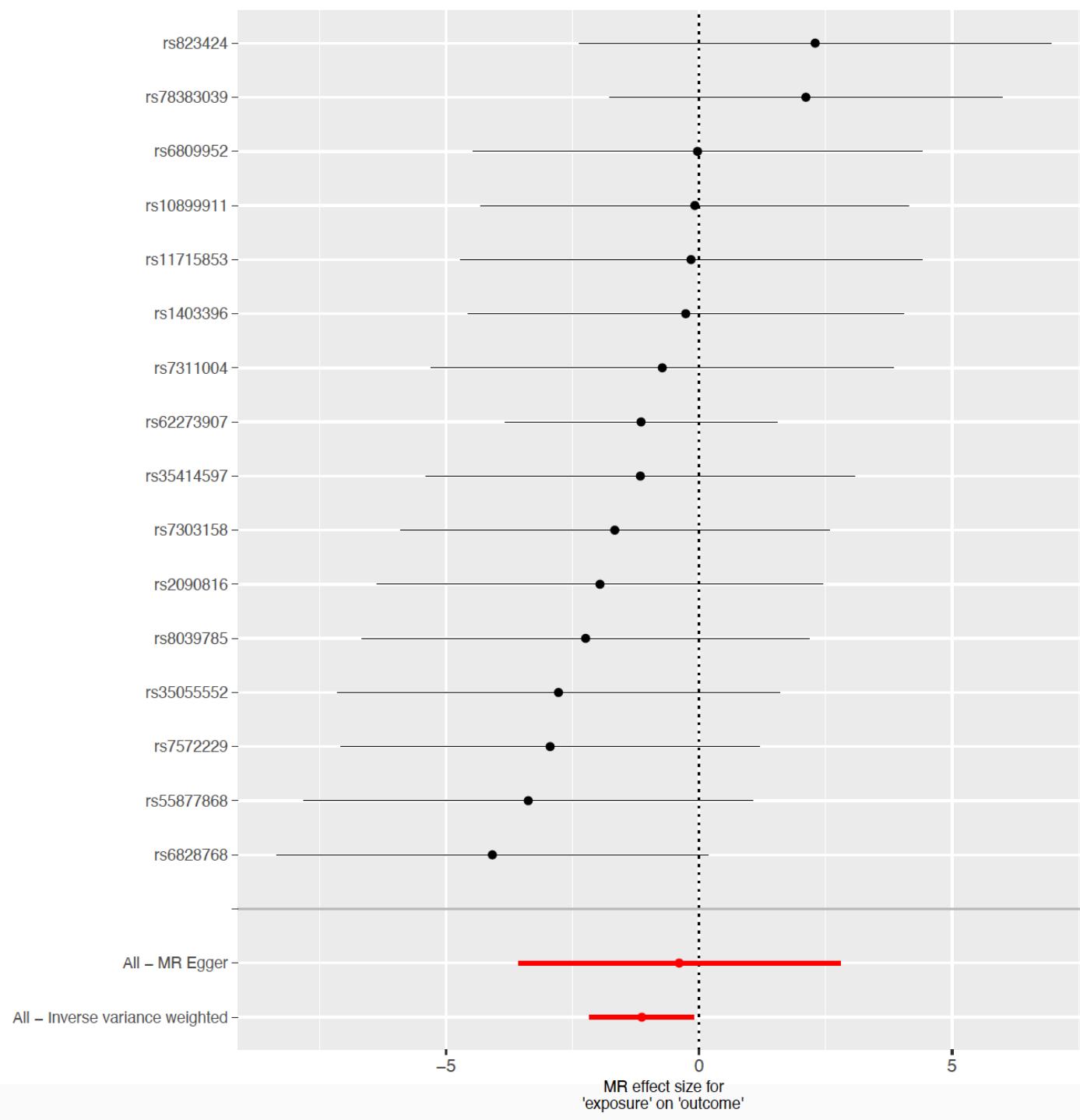
E

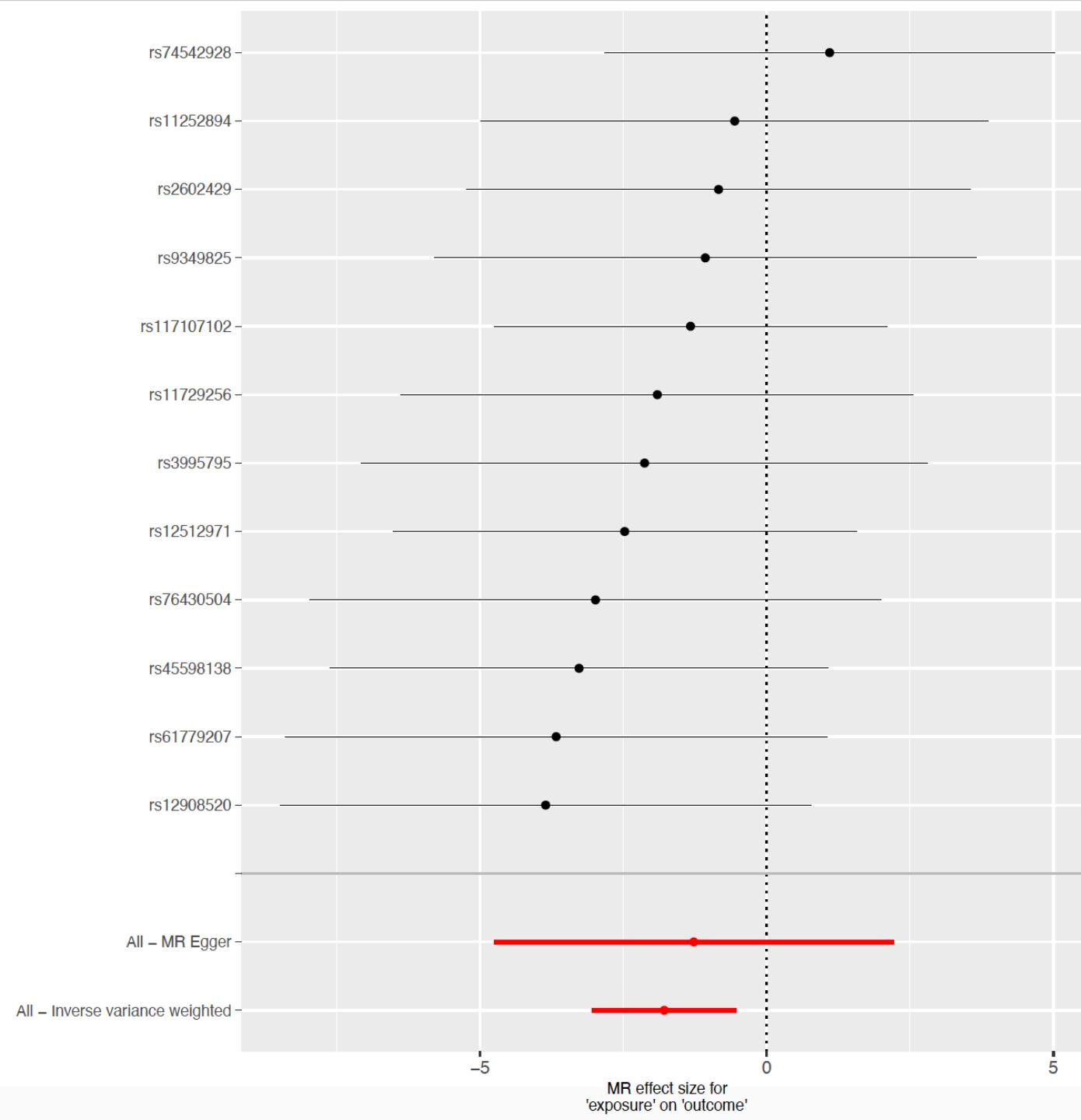


F



F



**G**

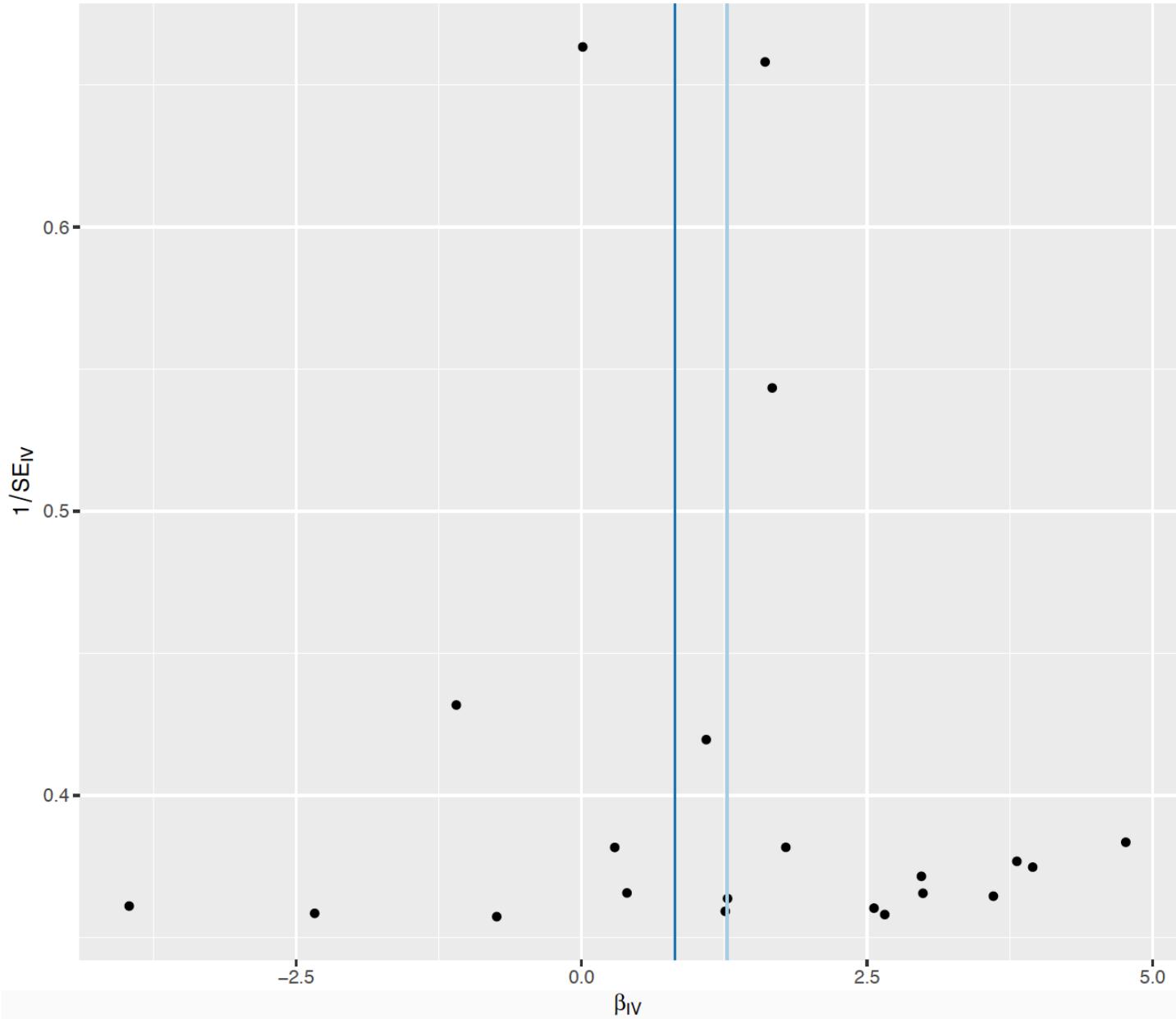
**Supplementary Figure4 Funnel plot for the causal association between specific gut microbiota taxa and intrahepatic cholangiocarcinoma (iCCA) in Mendelian randomization (MR) analyses.**

(A) genus *Eubacteriumnodatum* group, (B) genus *Ruminococcustorques* group, (C) genus *Collinsella*, (D) genus *Coprococcus*, (E) genus *Dorea*, (F) genus *Eisenbergiella*, (G) phylum *Actinobacteria*.

A

## MR Method

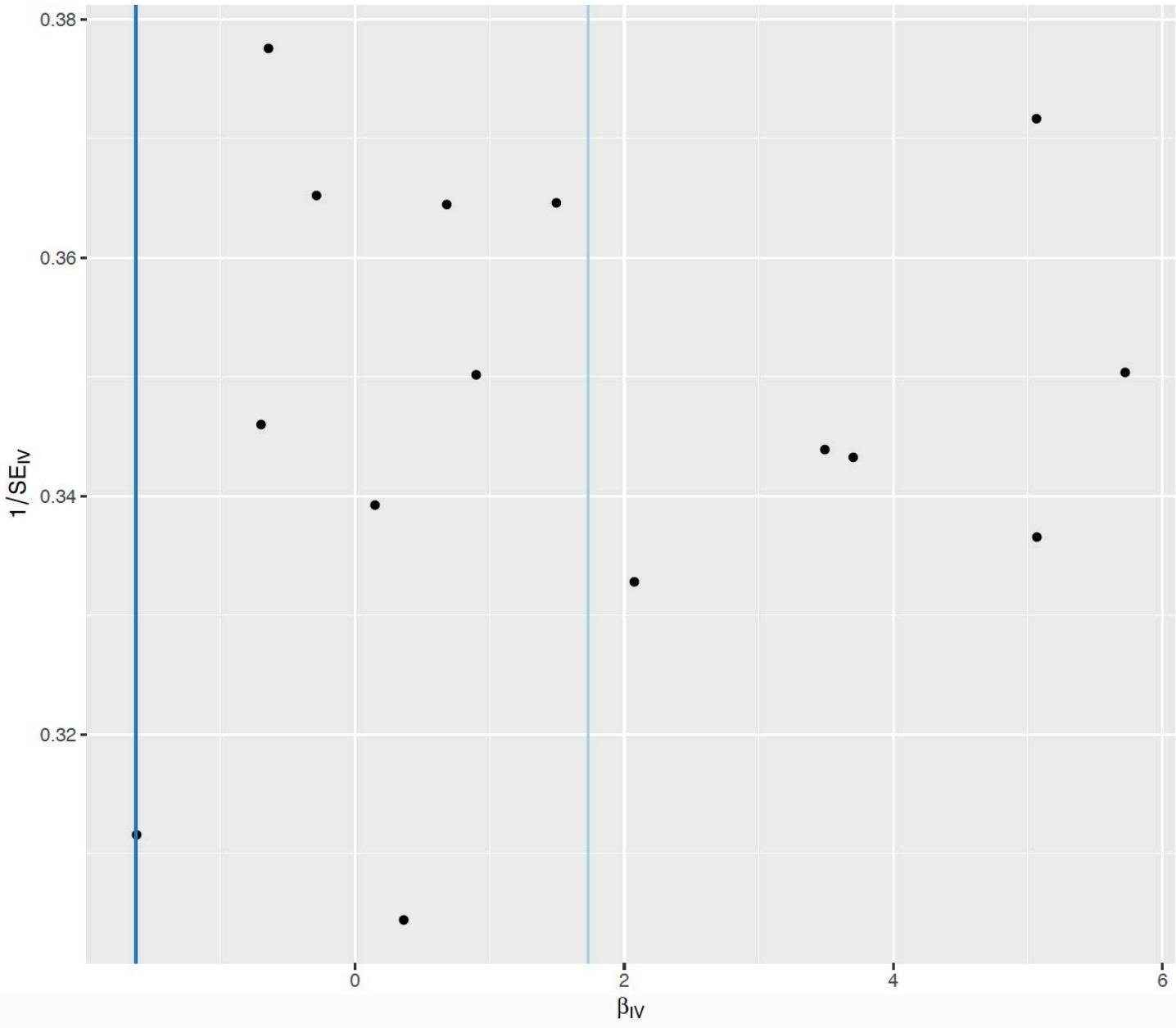
- Inverse variance weighted
- MR Egger



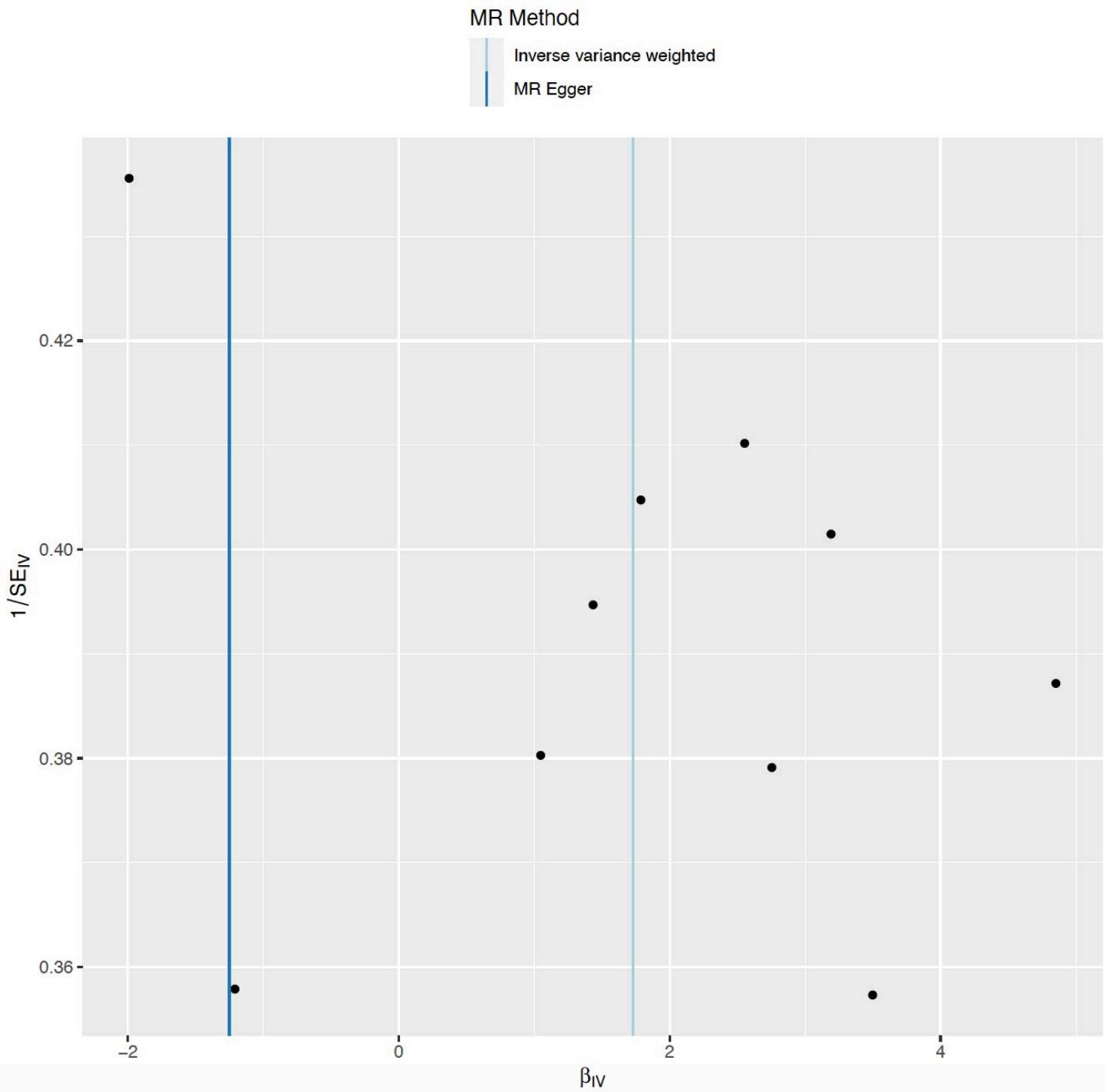
**B**

MR Method

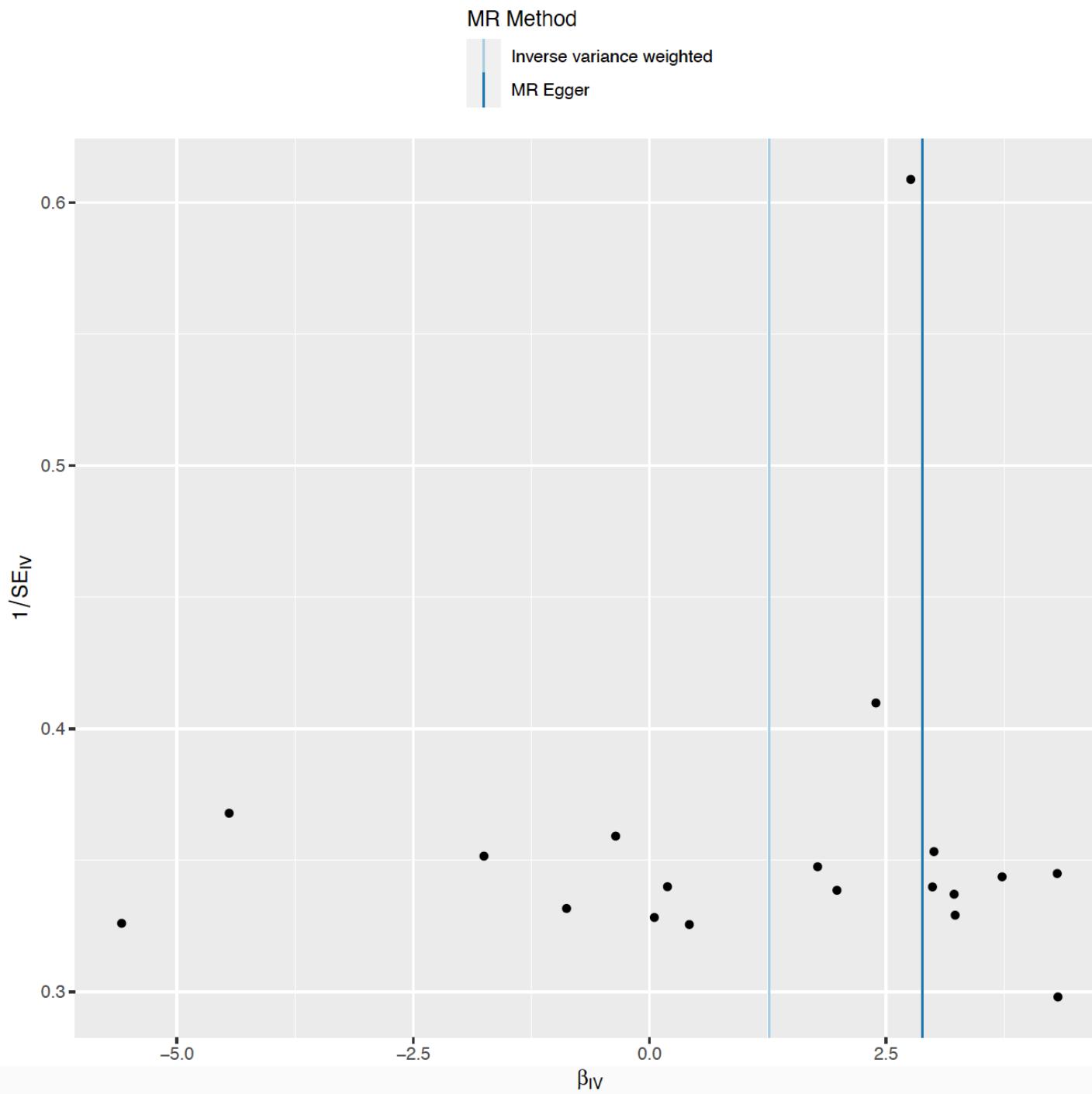
- Inverse variance weighted
- MR Egger



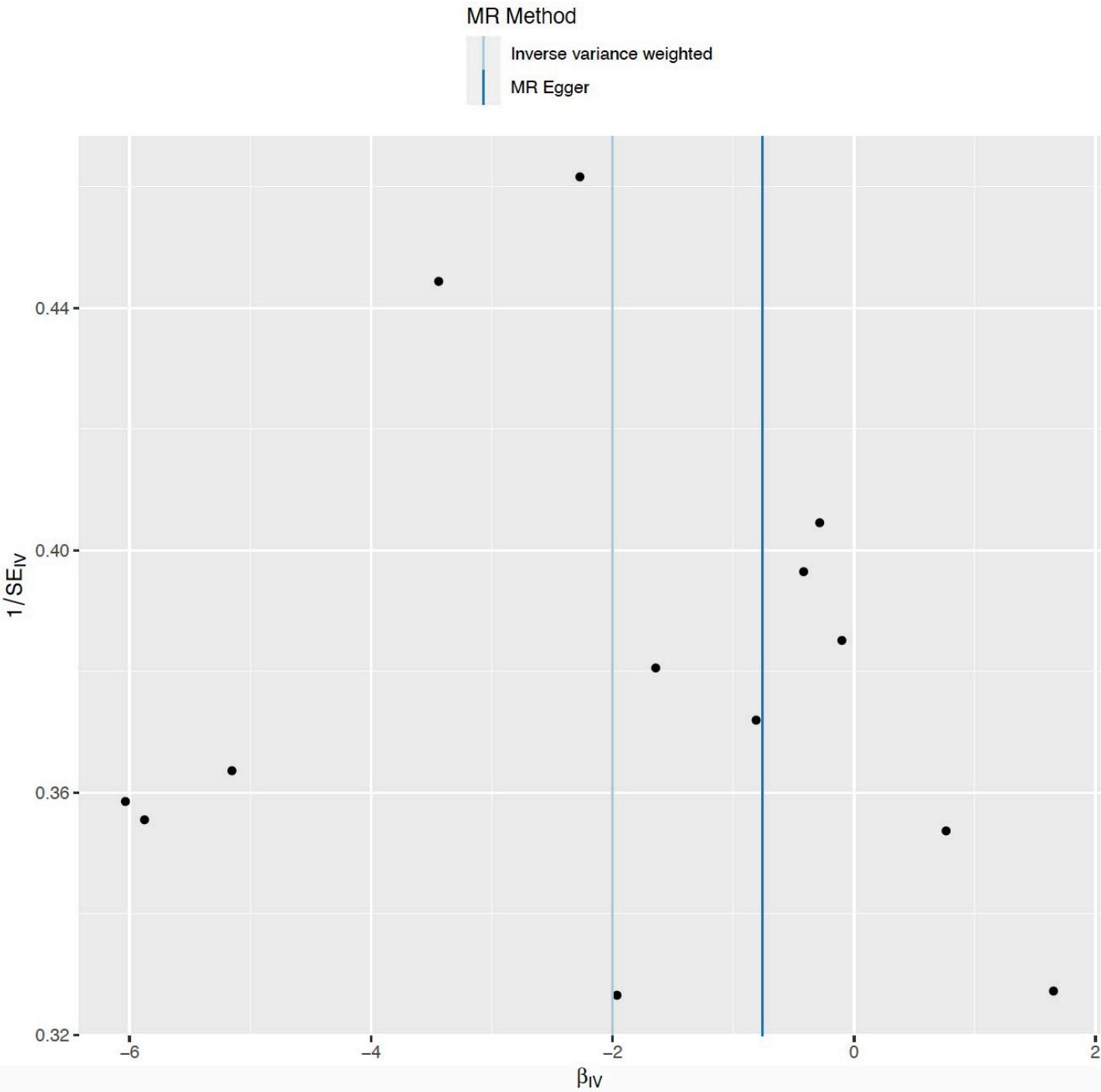
C



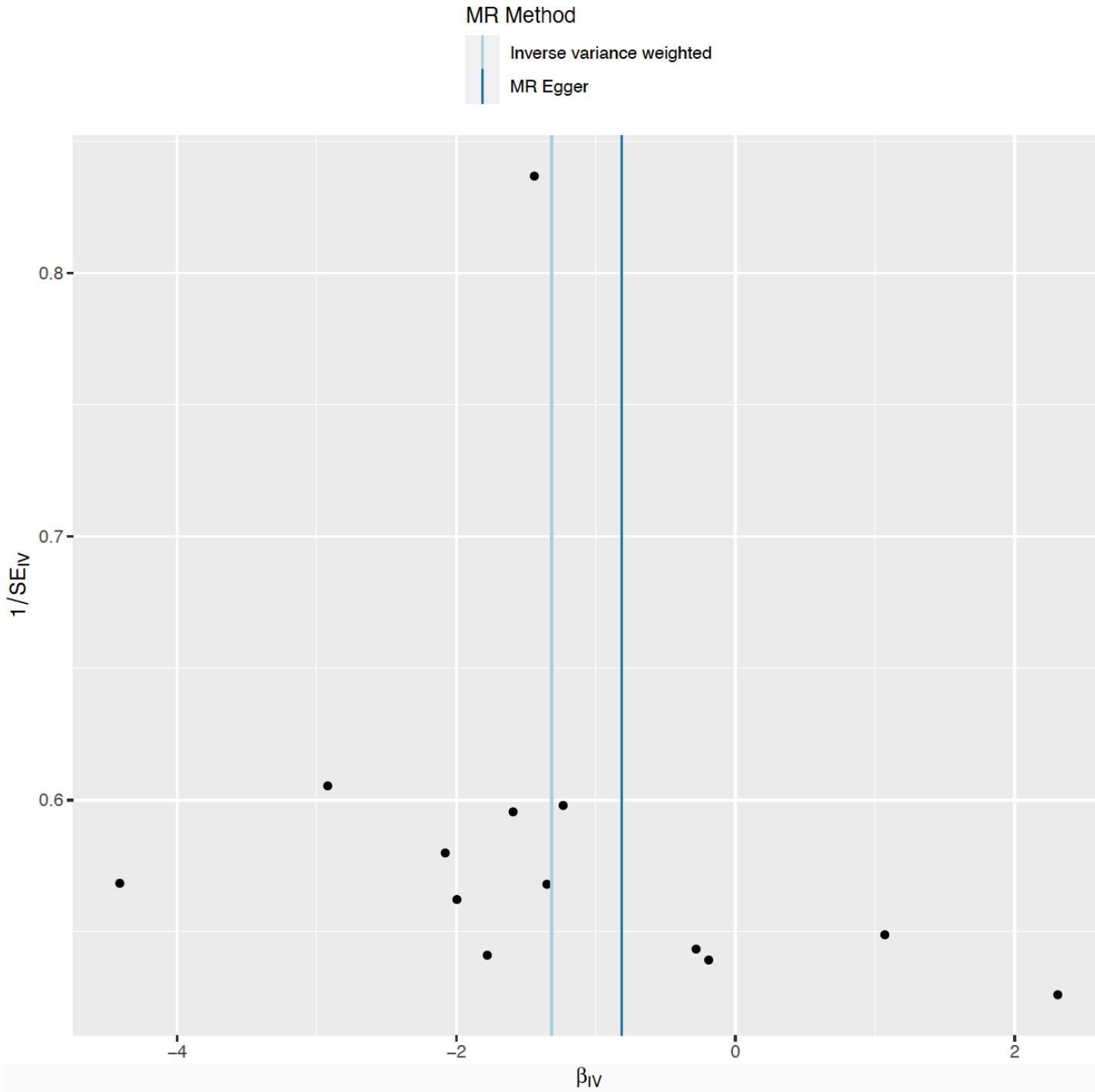
D



E



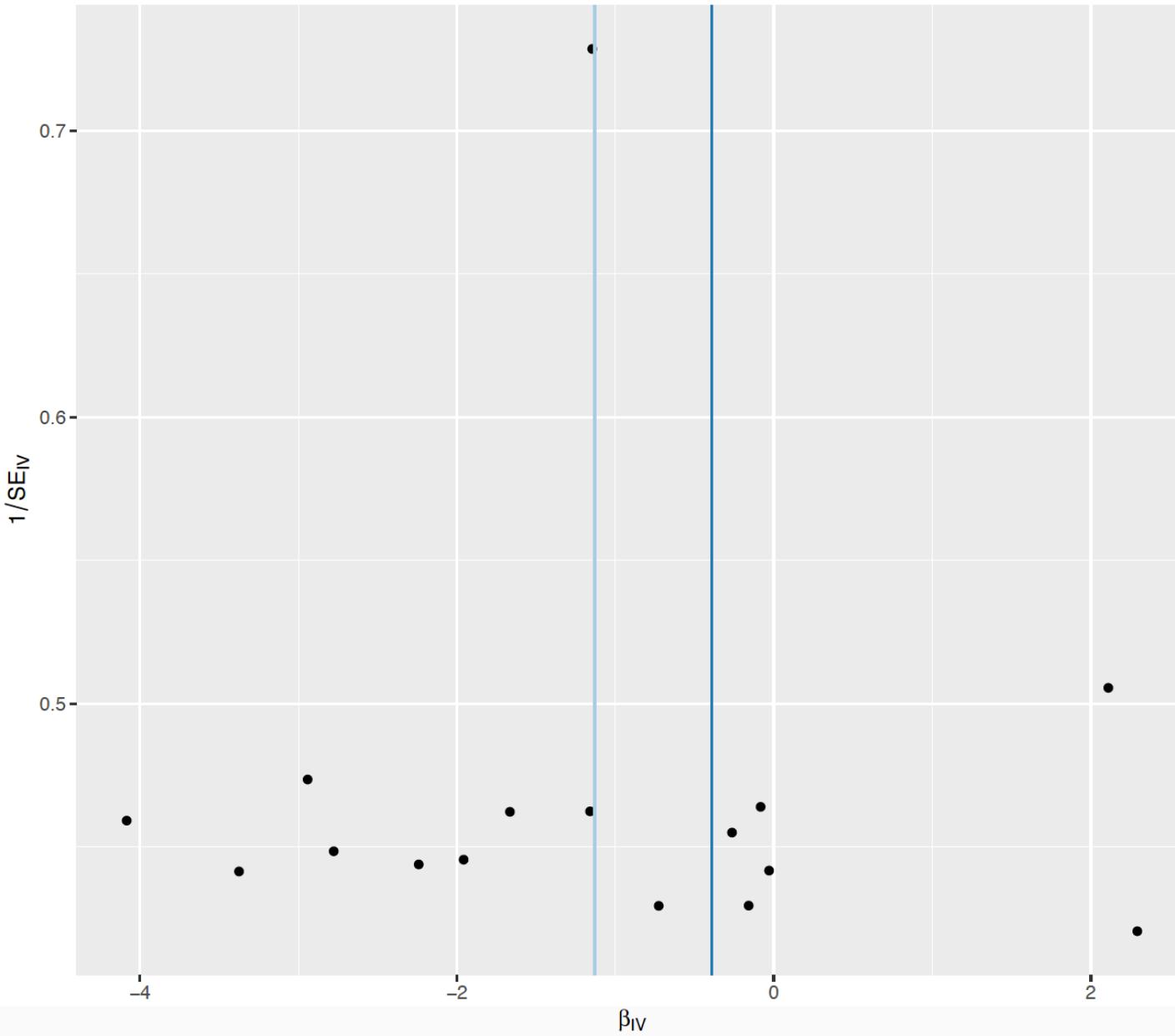
F



G

MR Method

- Inverse variance weighted
- MR Egger



H

MR Method

Inverse variance weighted

MR Egger

