

### MR Test



Inverse variance weighted (multiplicative random effects)



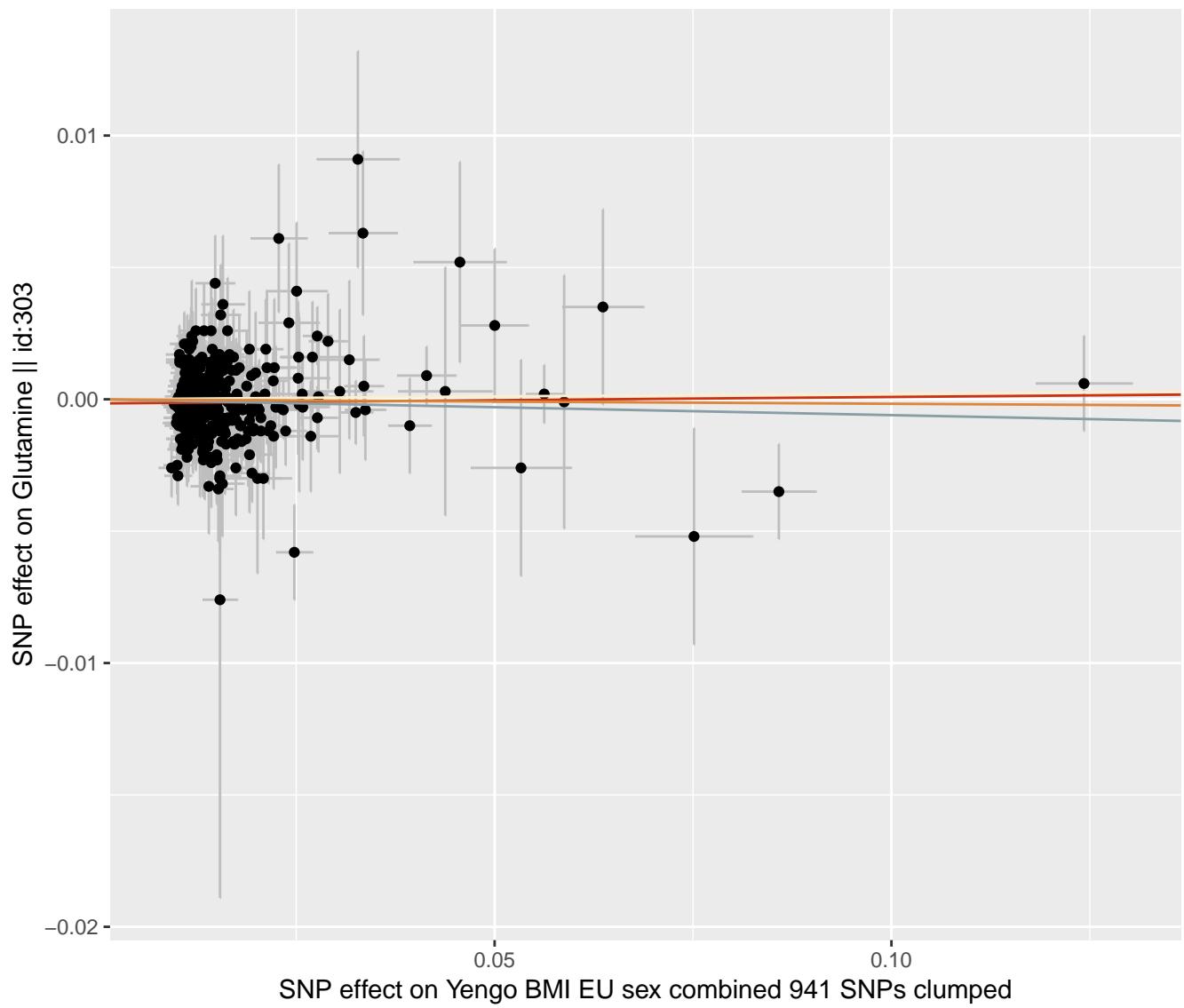
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

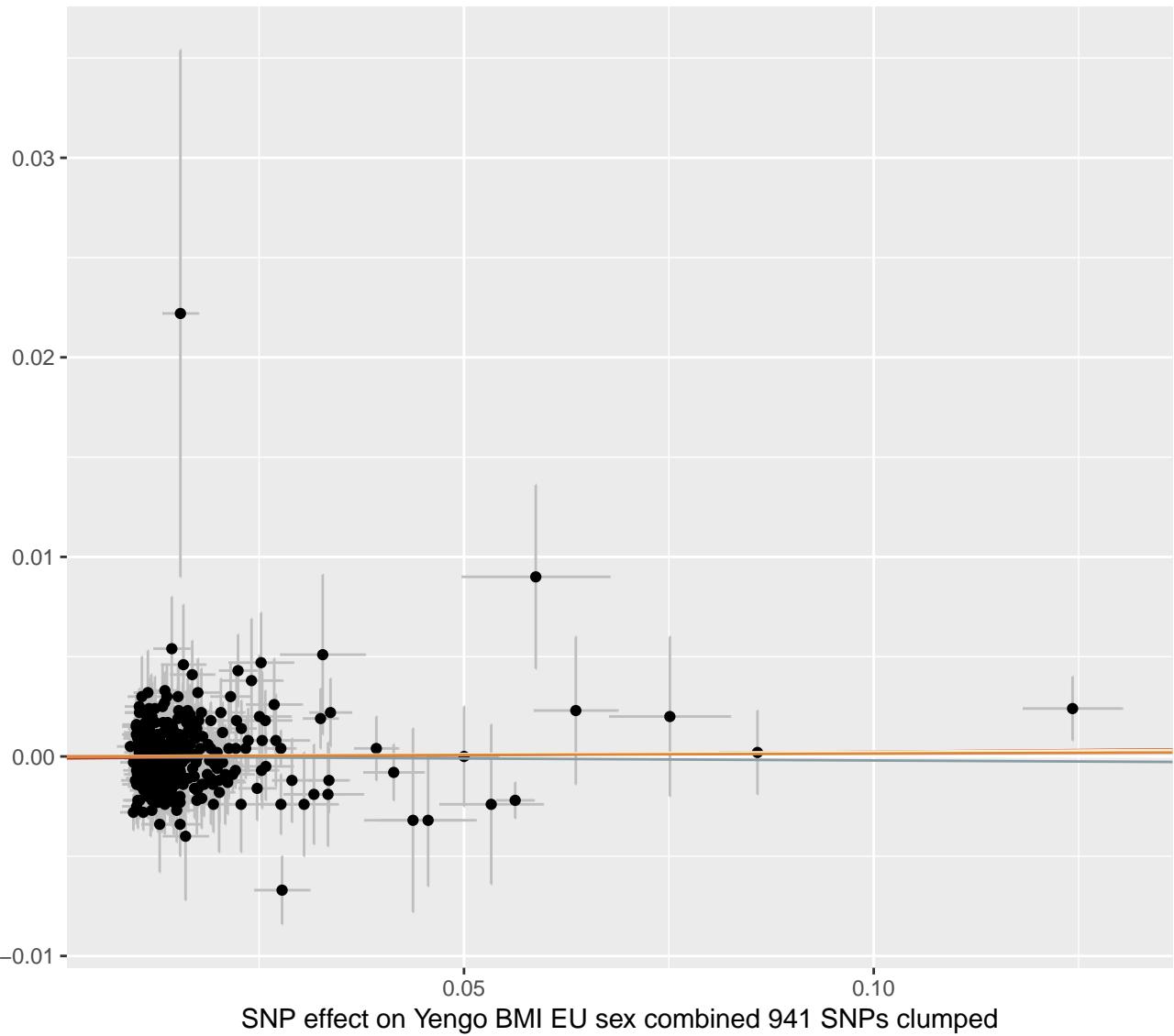


Weighted median



Weighted mode

SNP effect on Tryptophan || id:304



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

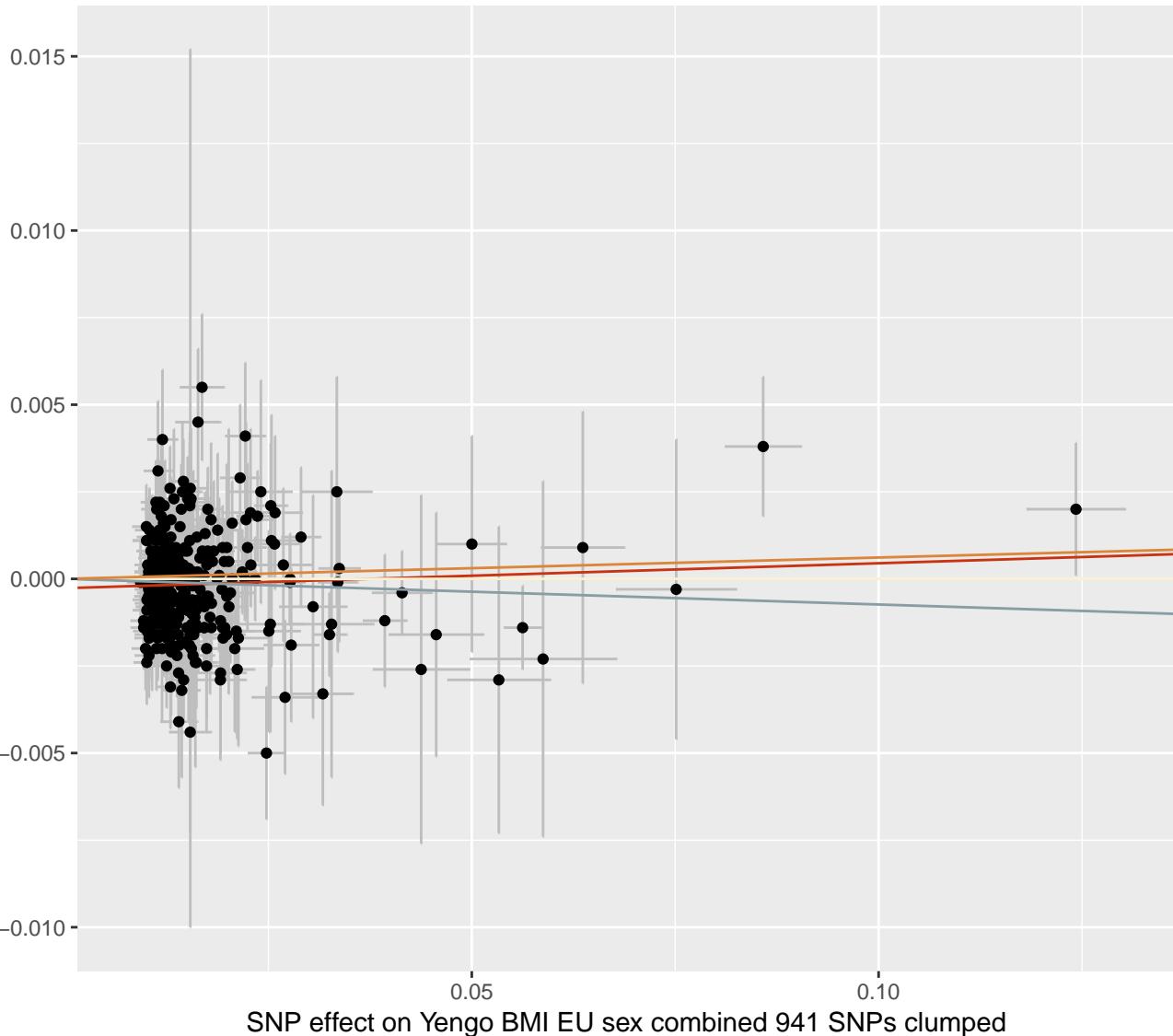


Weighted median



Weighted mode

SNP effect on Histidine || id:305



### MR Test



Inverse variance weighted (multiplicative random effects)



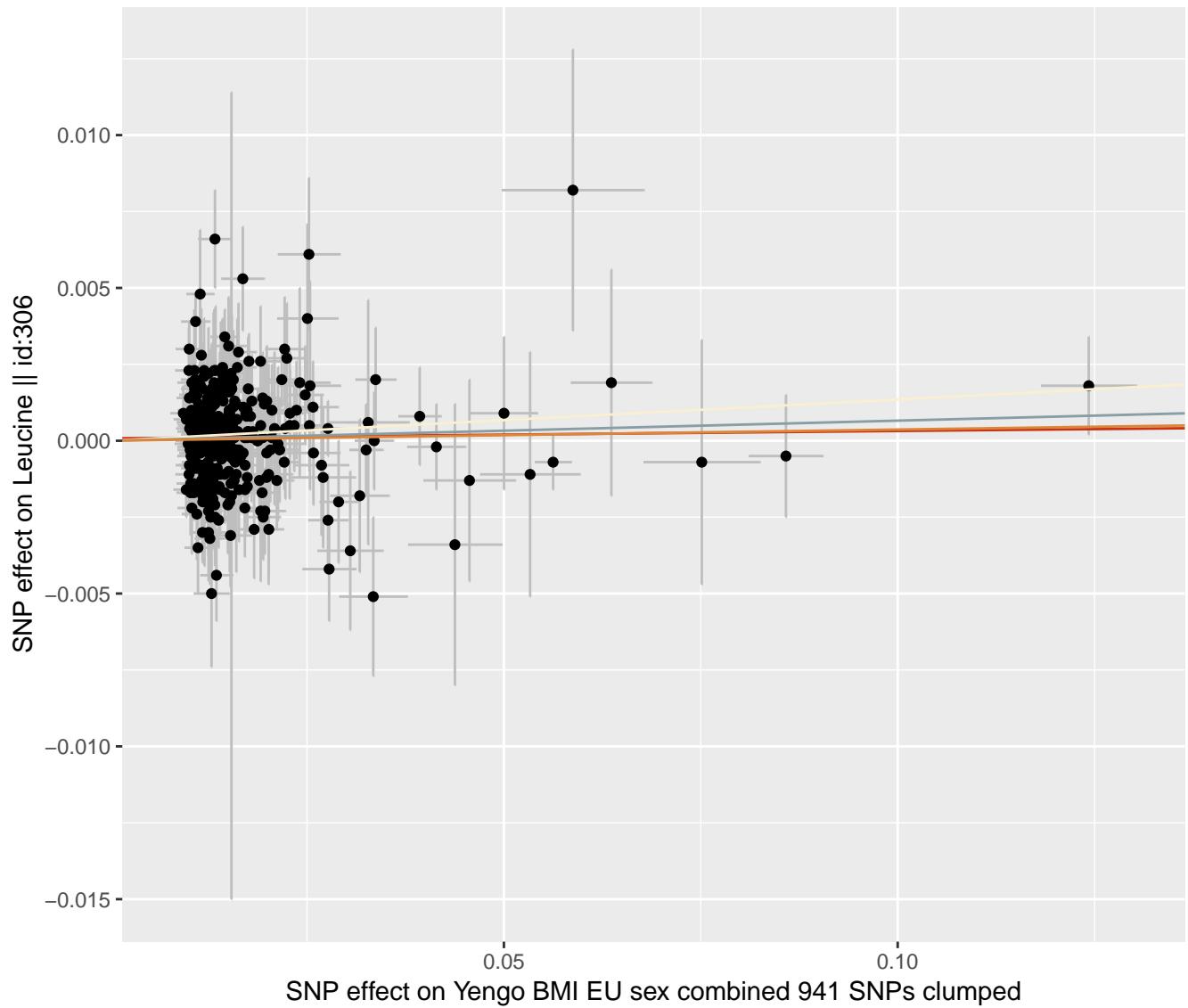
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



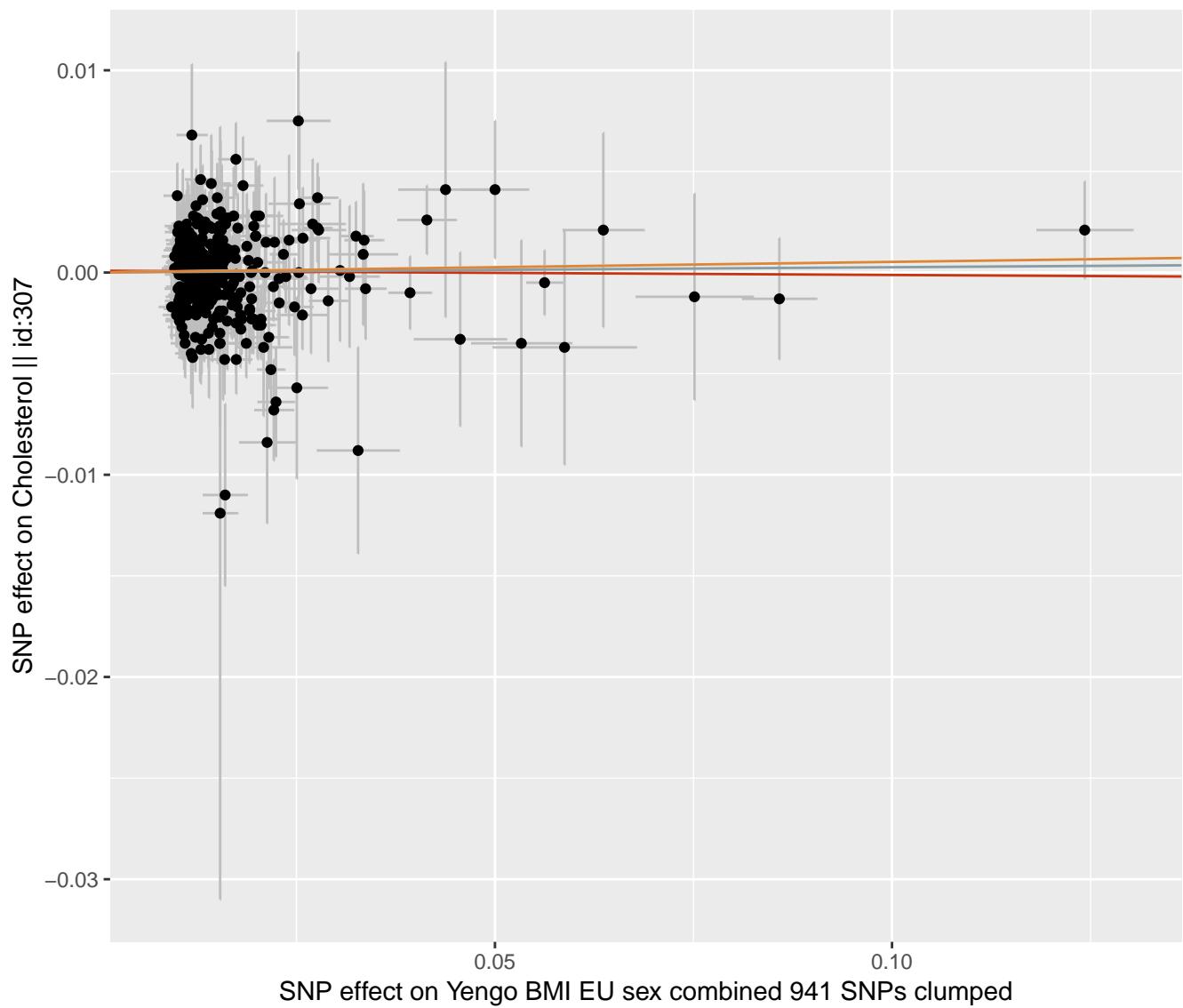
MR Egger



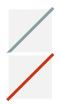
Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



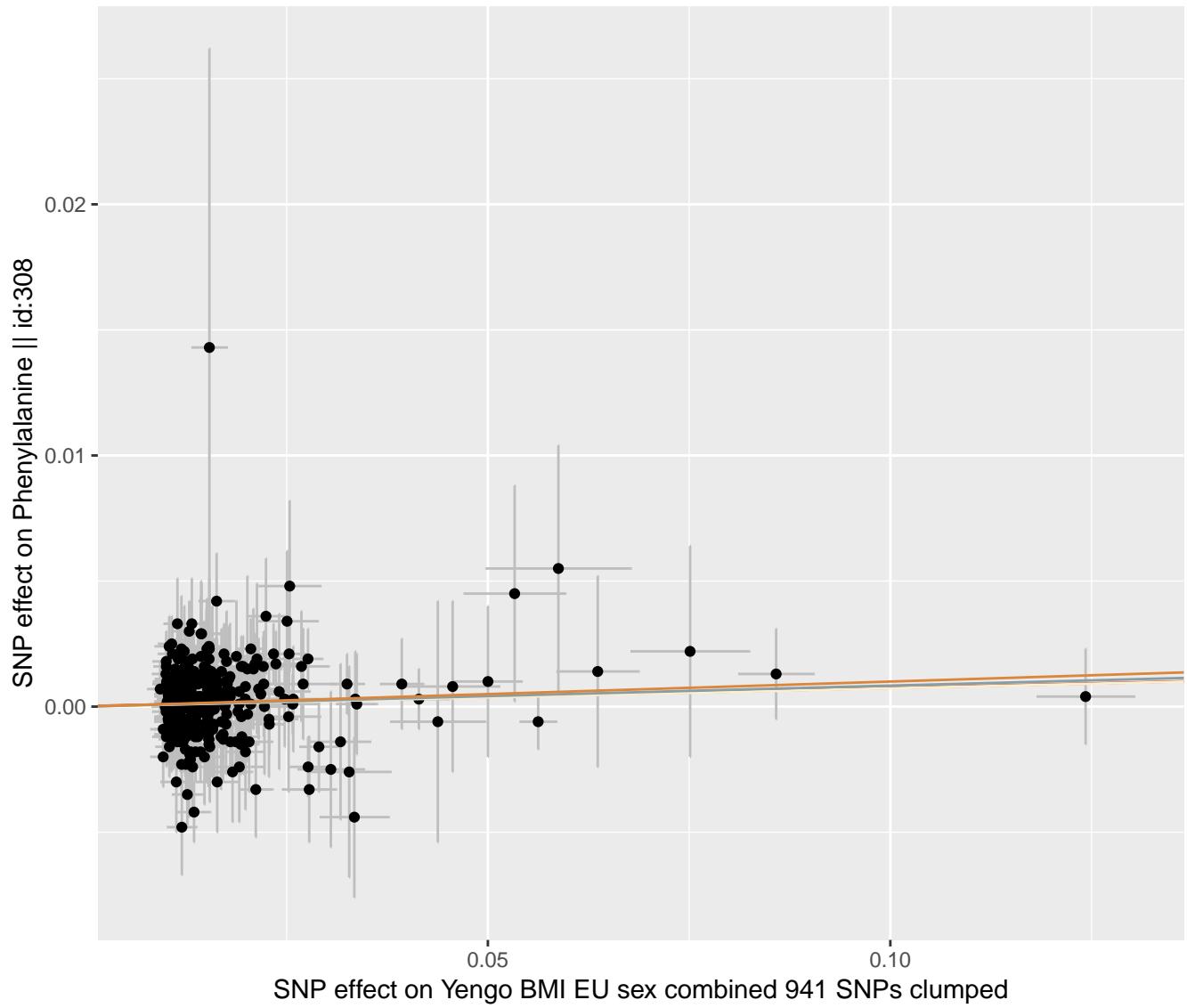
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



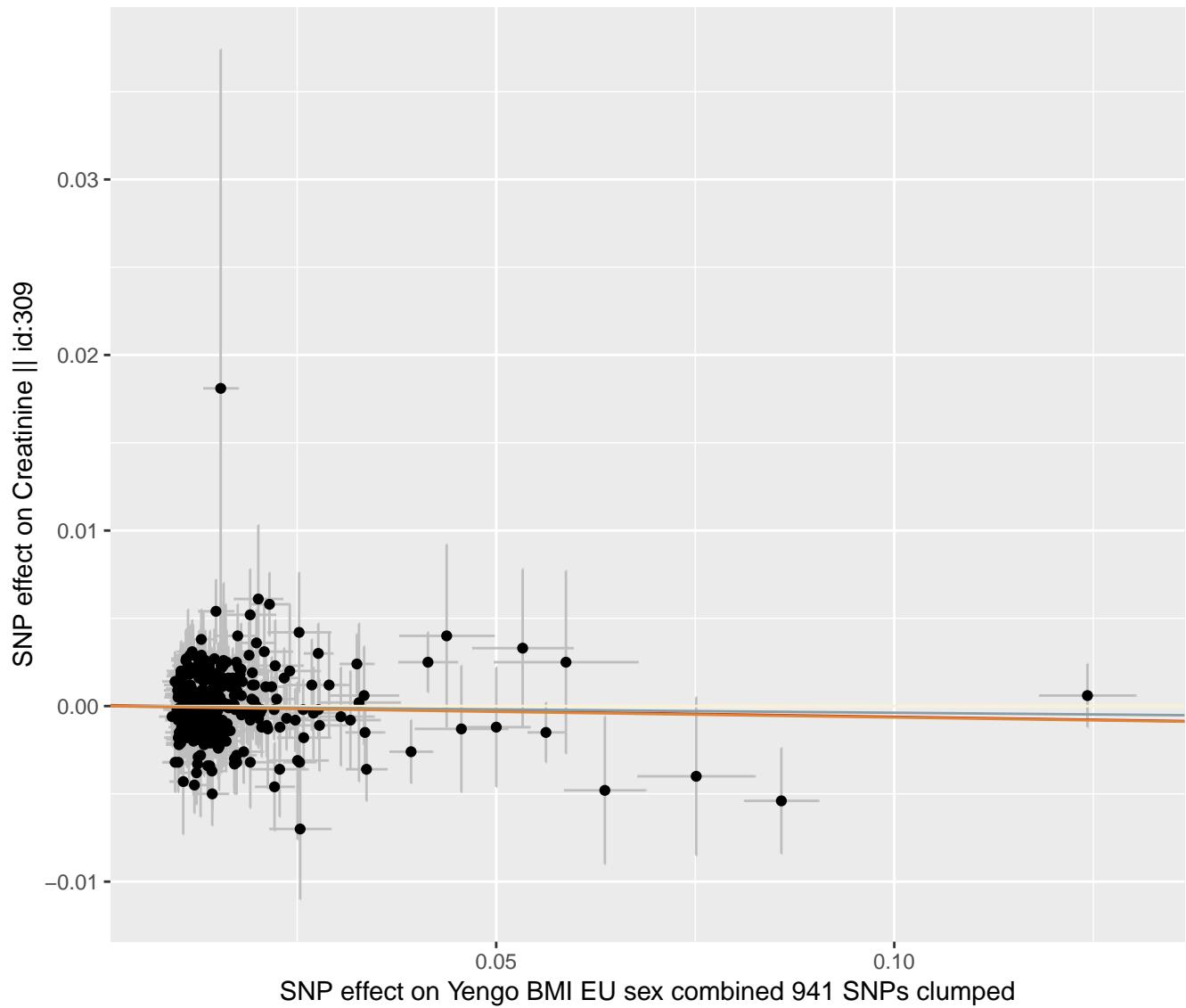
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



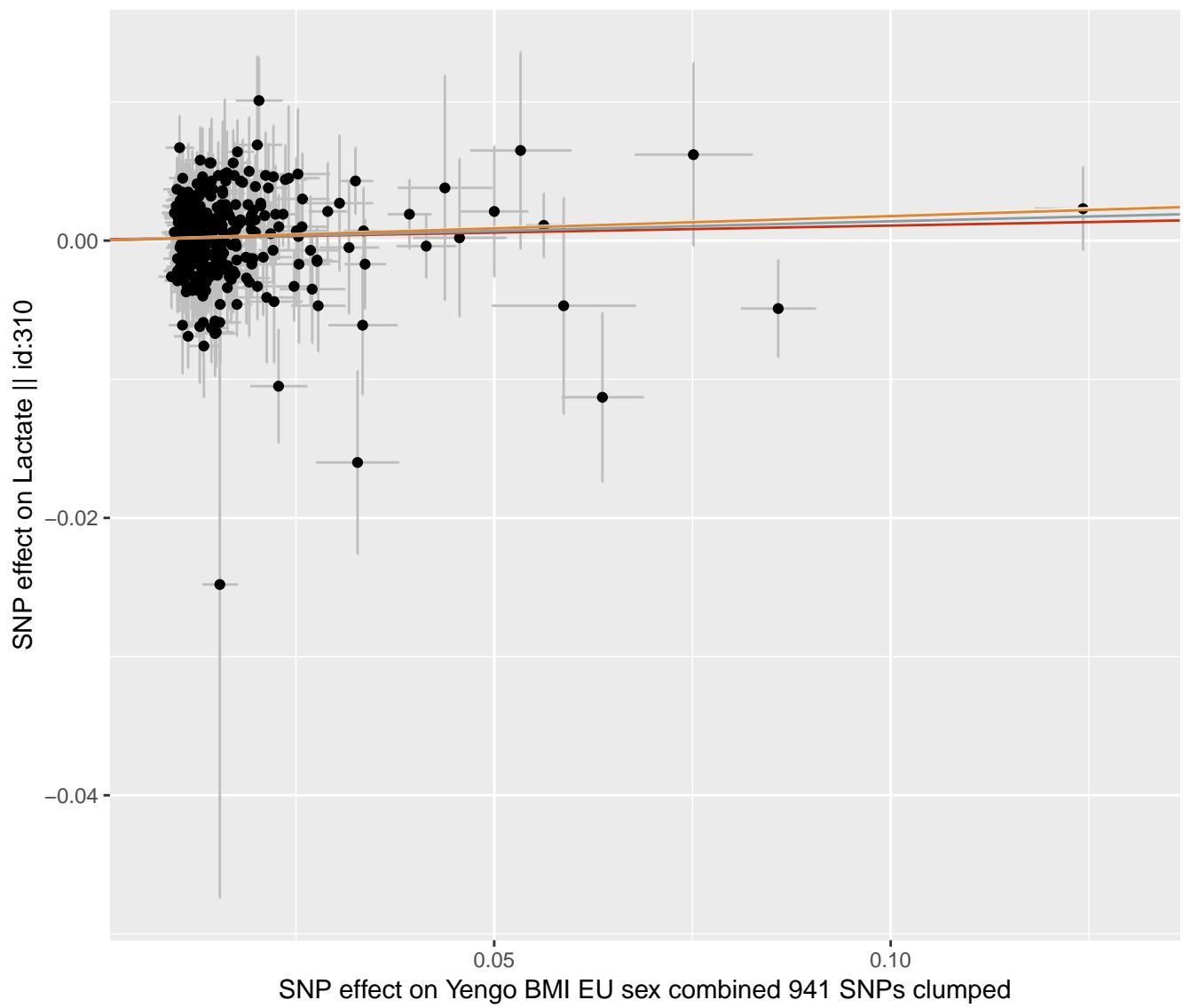
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



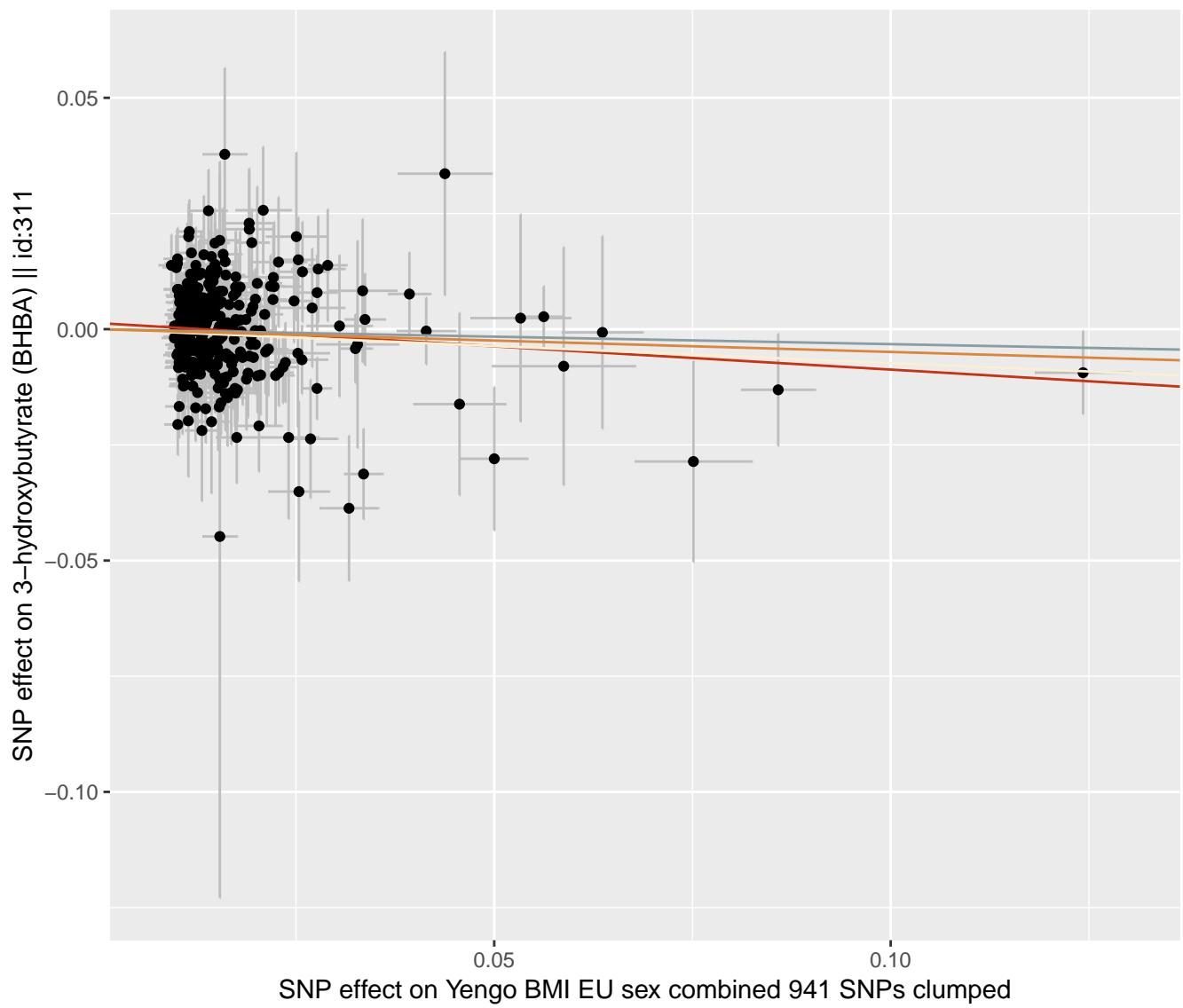
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



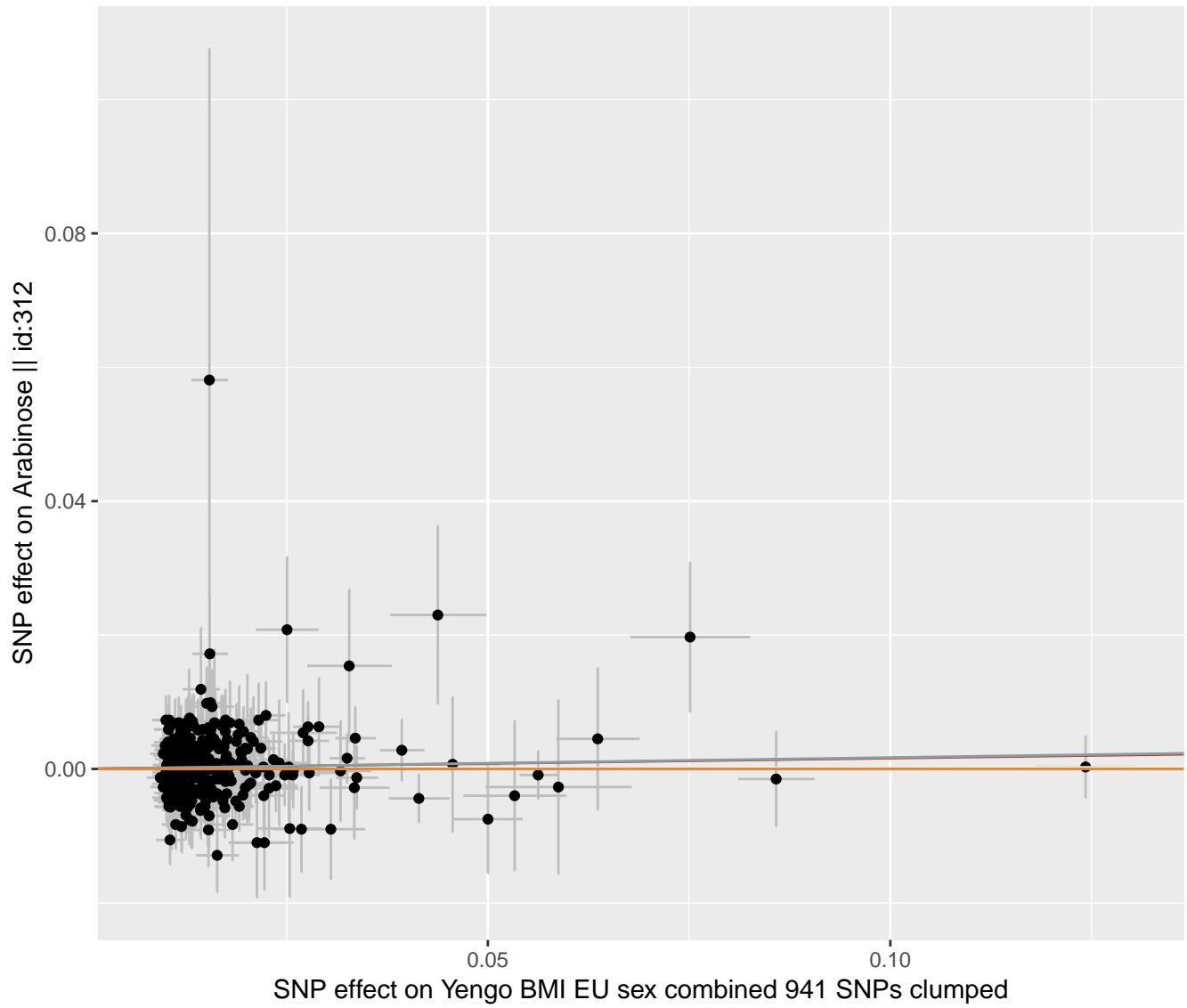
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



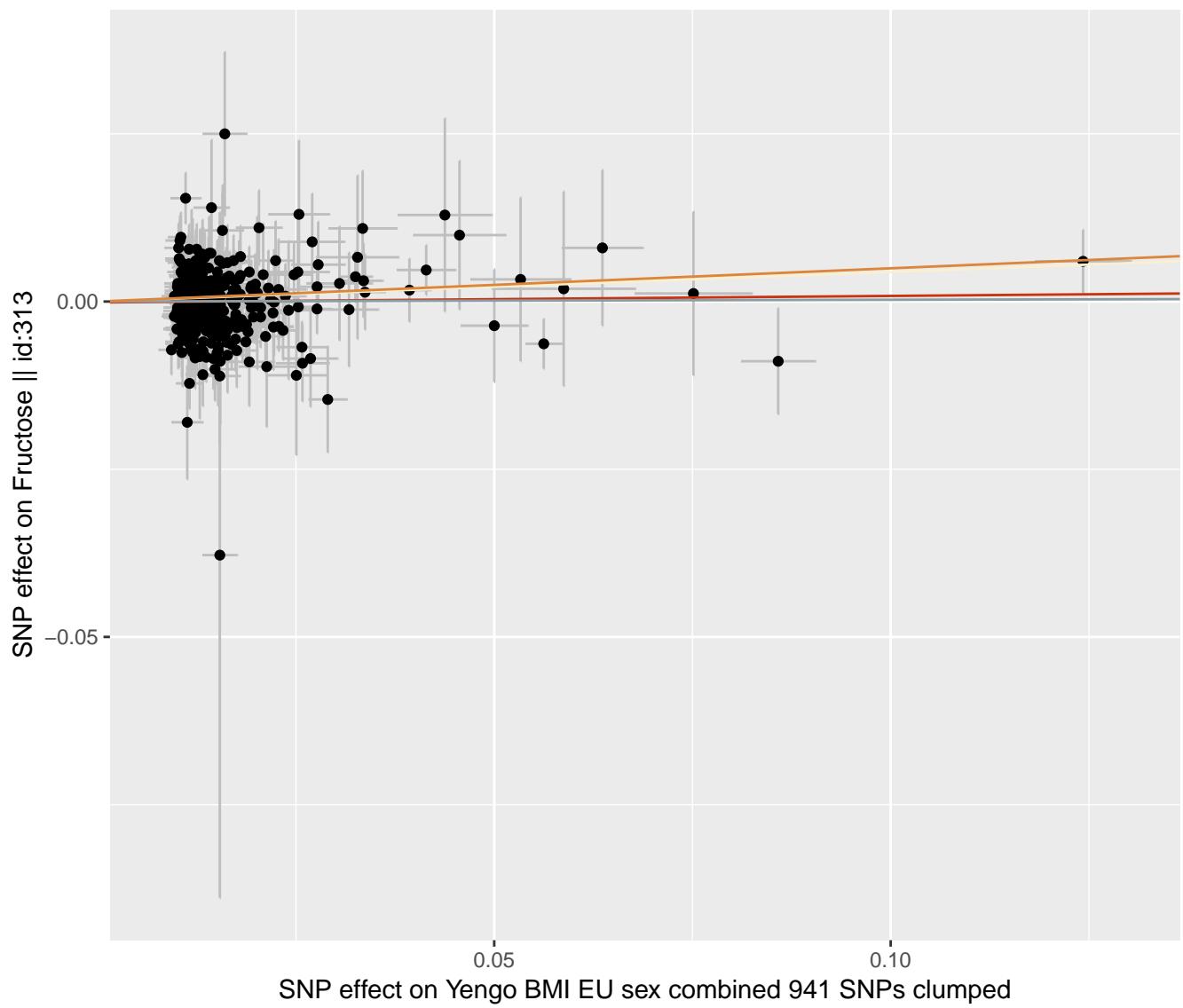
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on Mannose || id:314

0.050

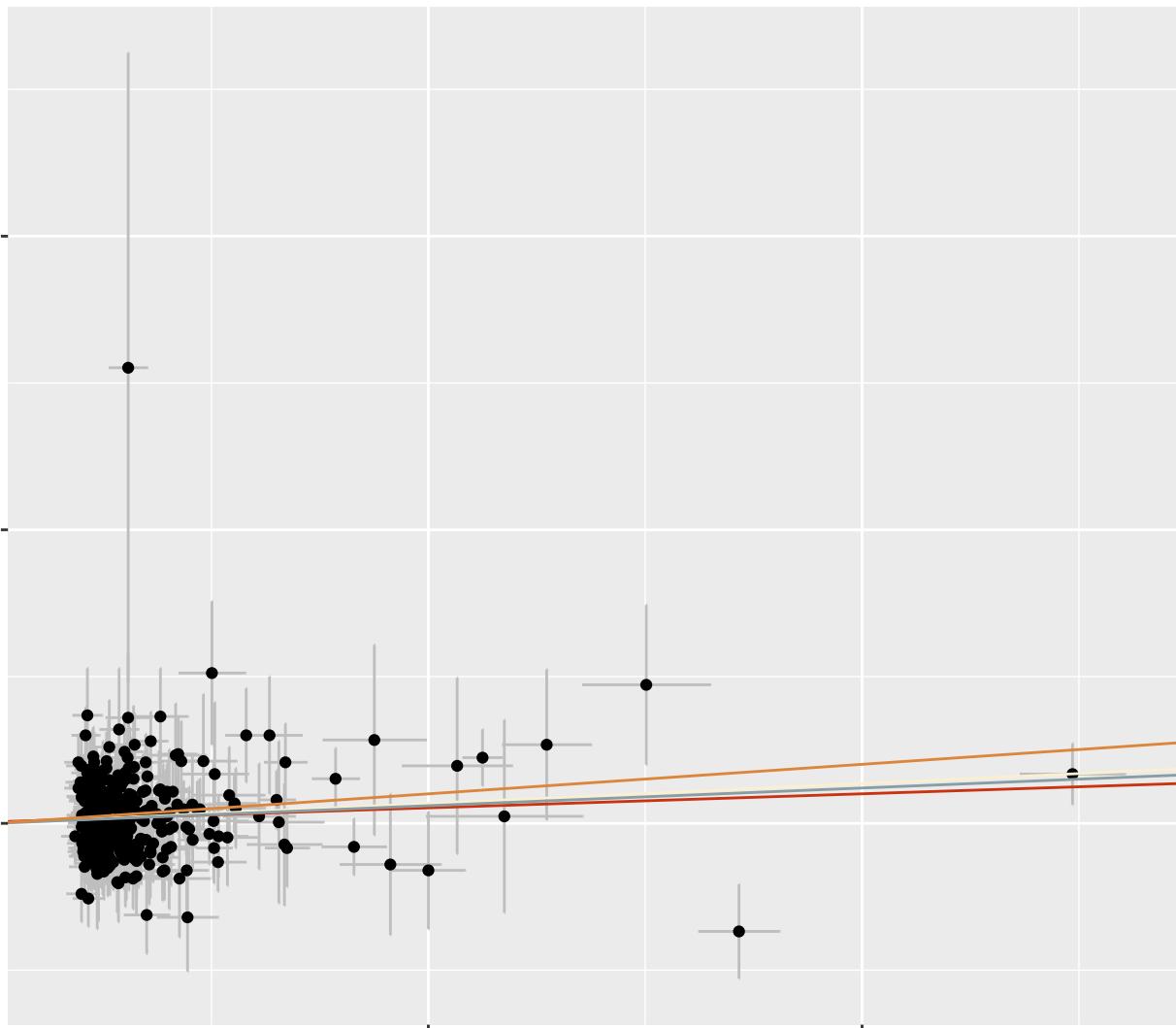
0.025

0.000

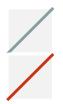
0.05

0.10

SNP effect on Yengo BMI EU sex combined 941 SNPs clumped



## MR Test



Inverse variance weighted (multiplicative random effects)



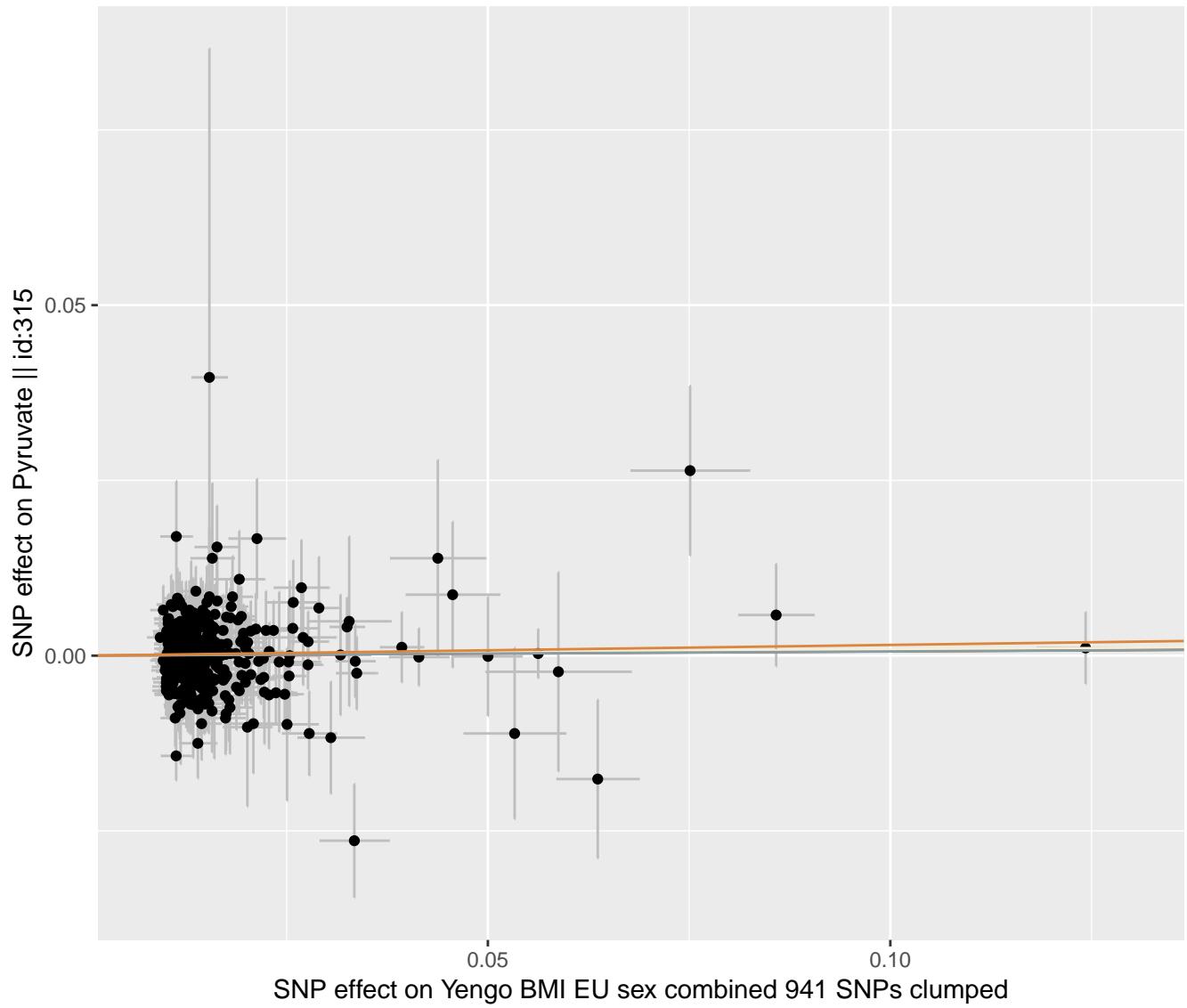
MR Egger



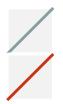
Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



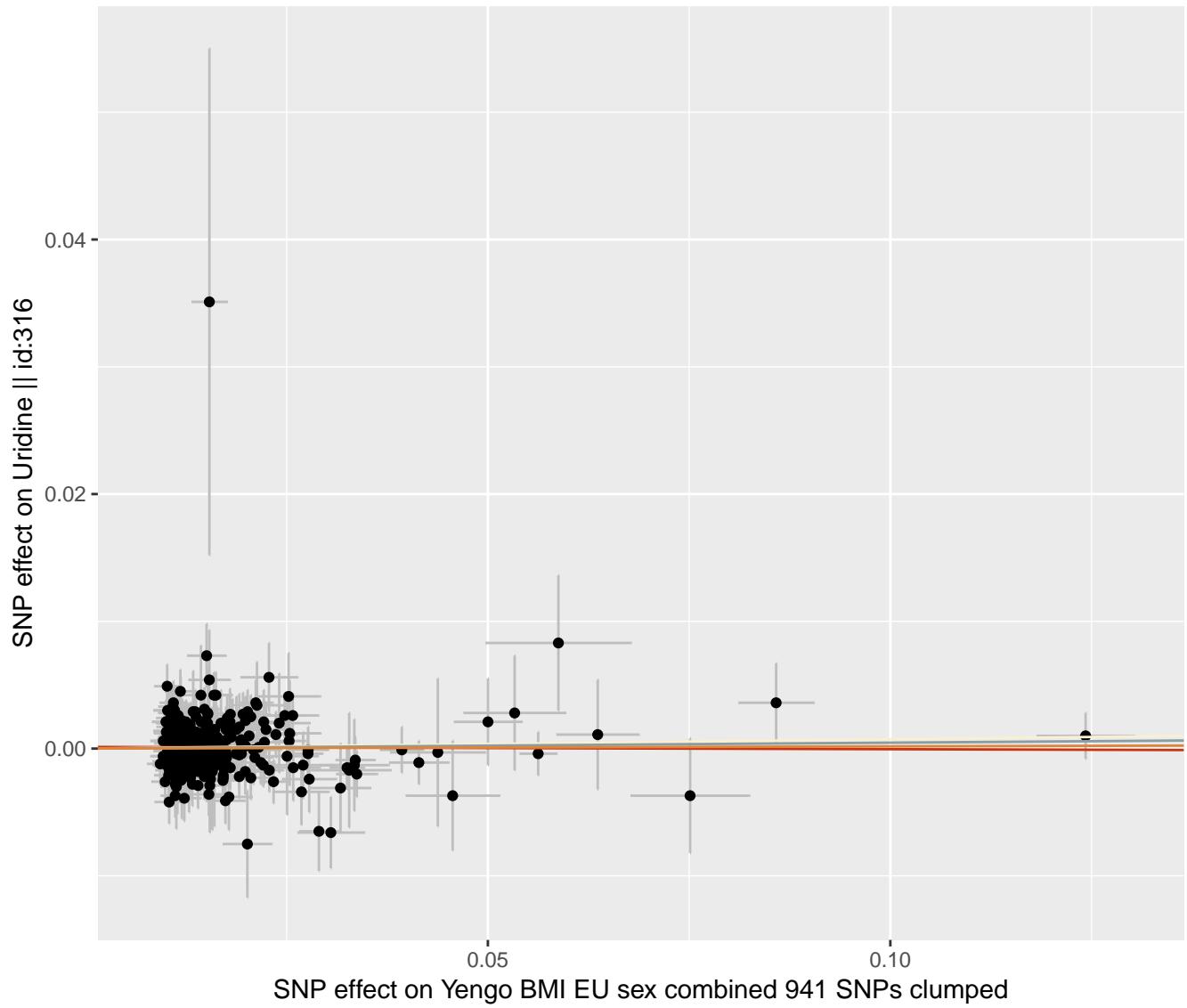
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

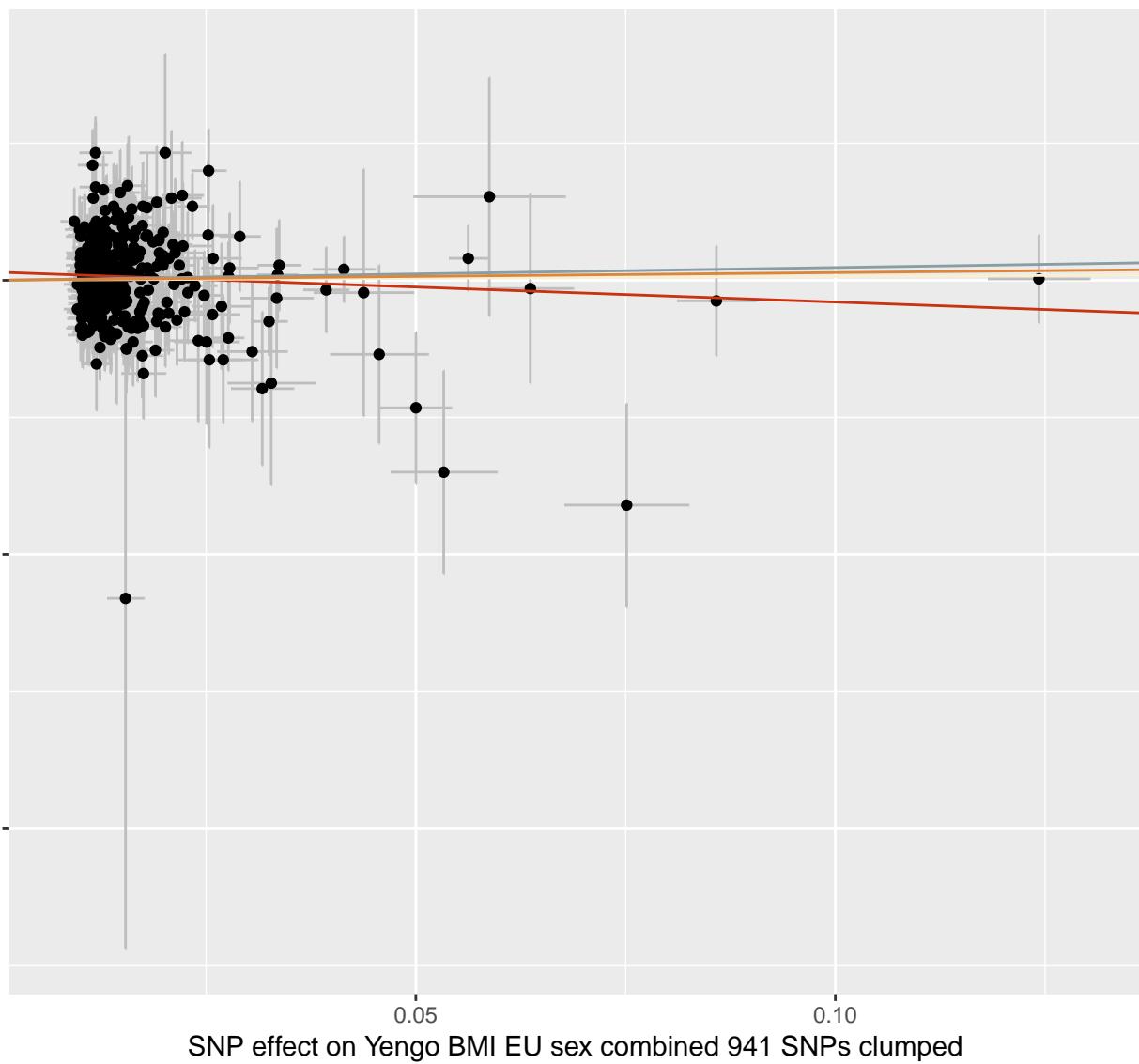


Weighted median



Weighted mode

SNP effect on Linoleate (18:2n6) || id:317



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



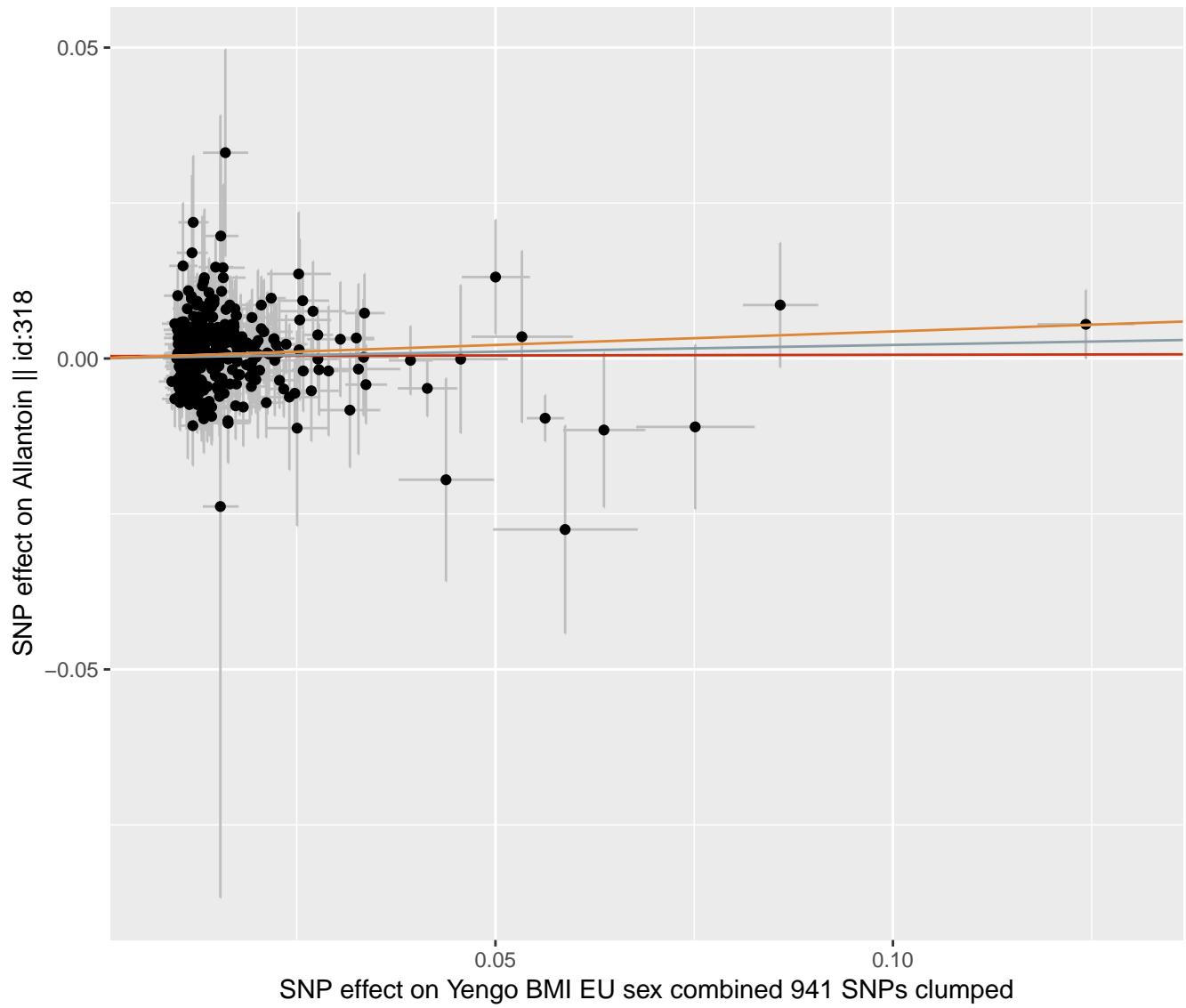
MR Egger



Weighted median



Weighted mode



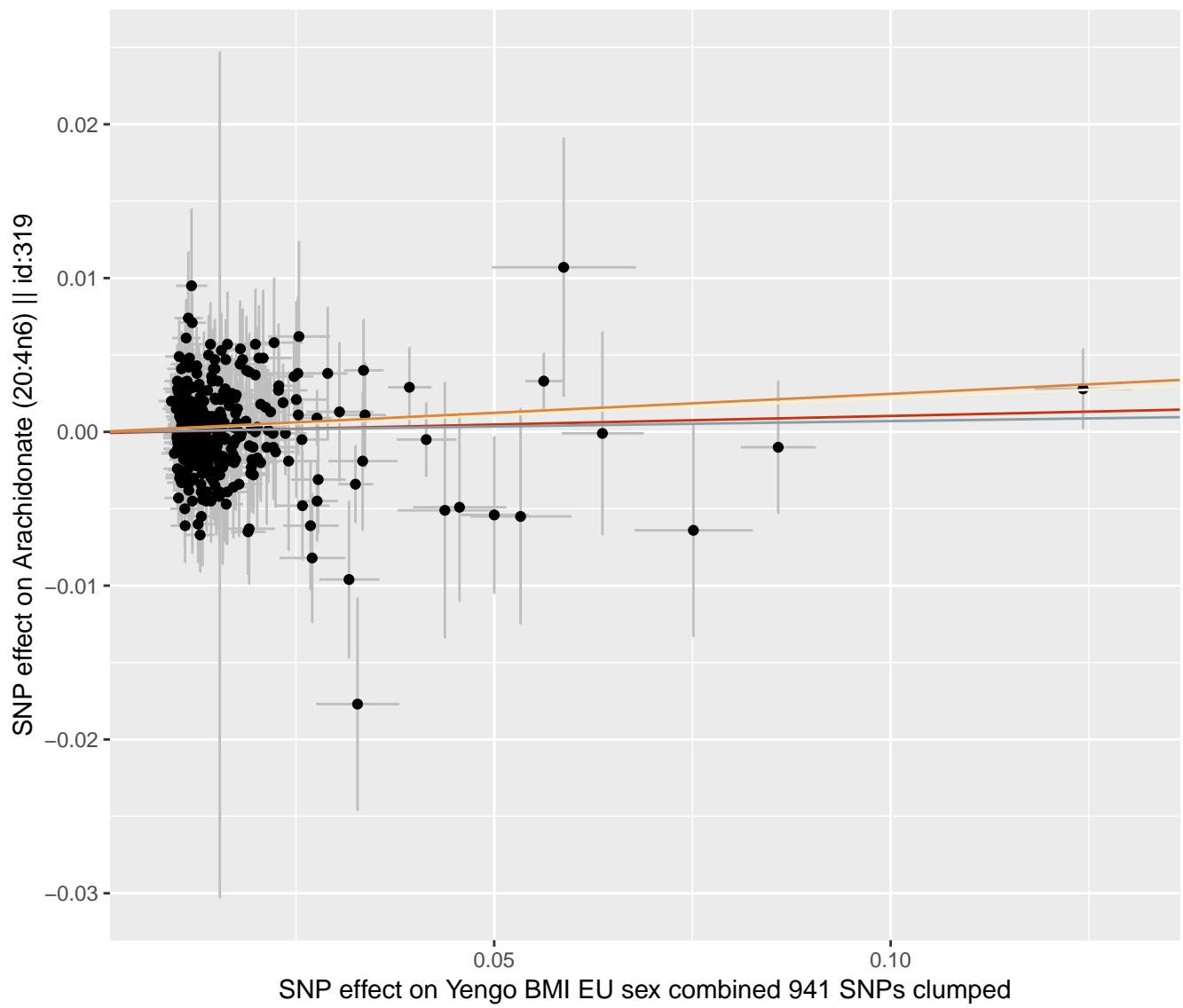
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



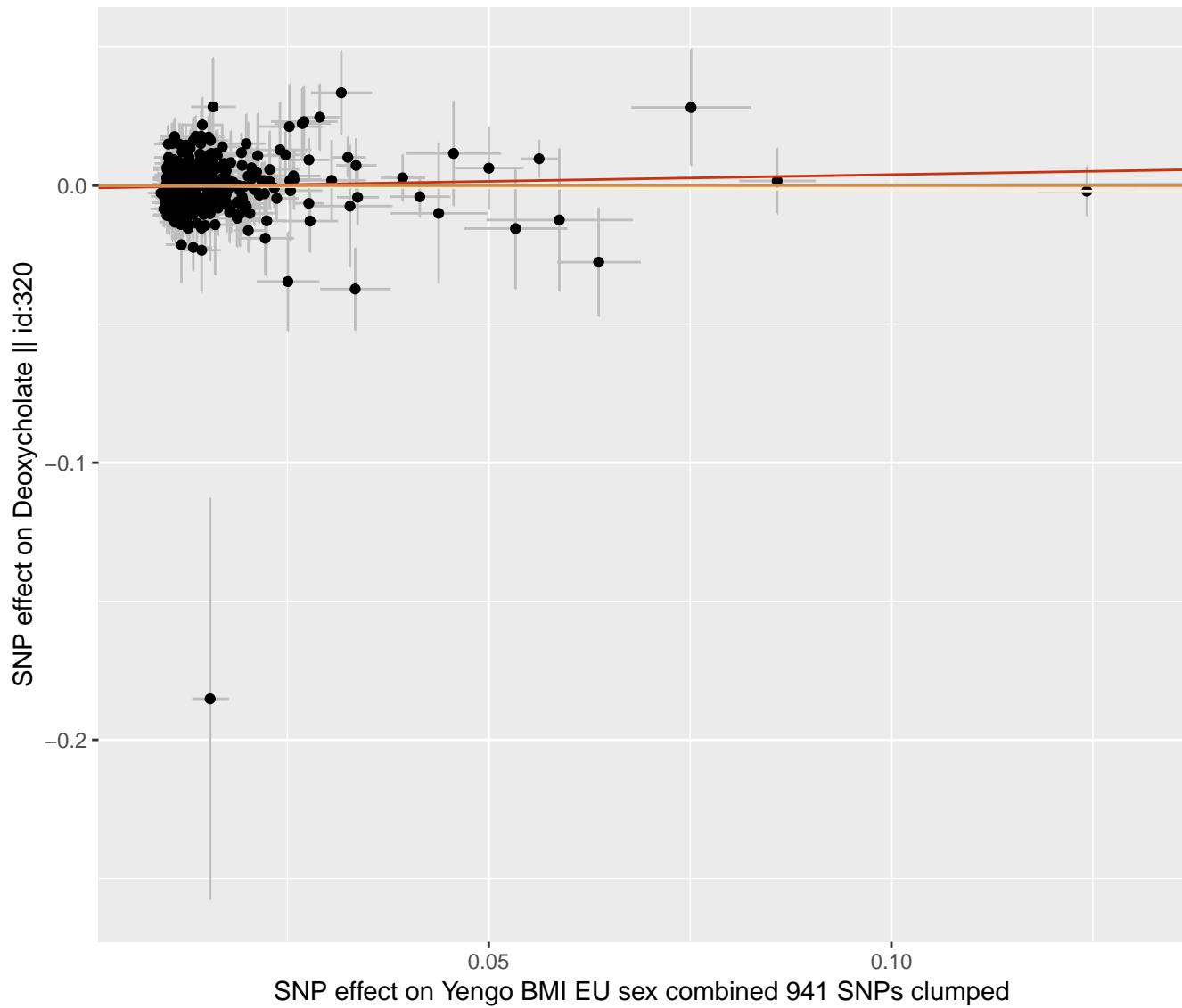
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



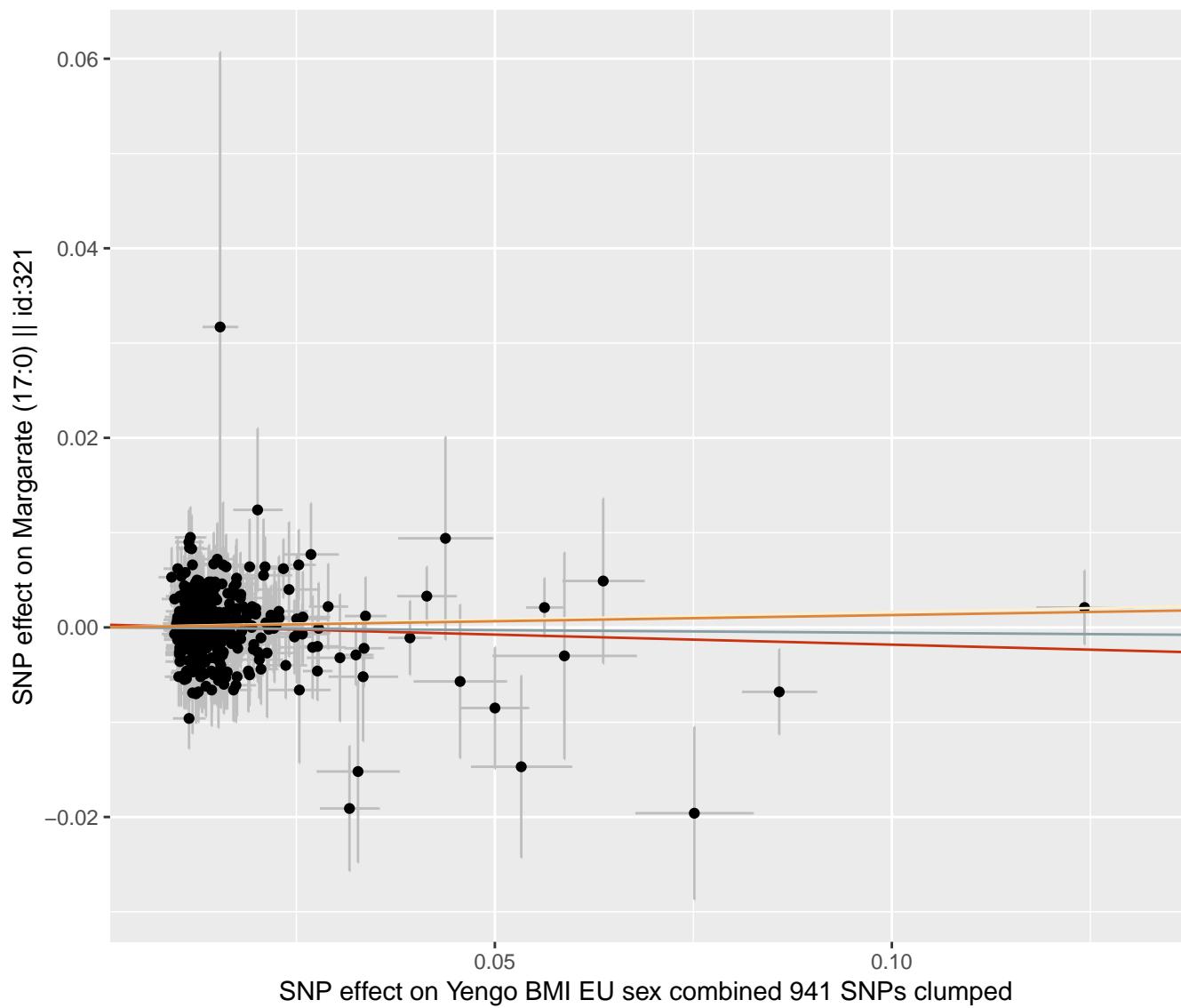
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



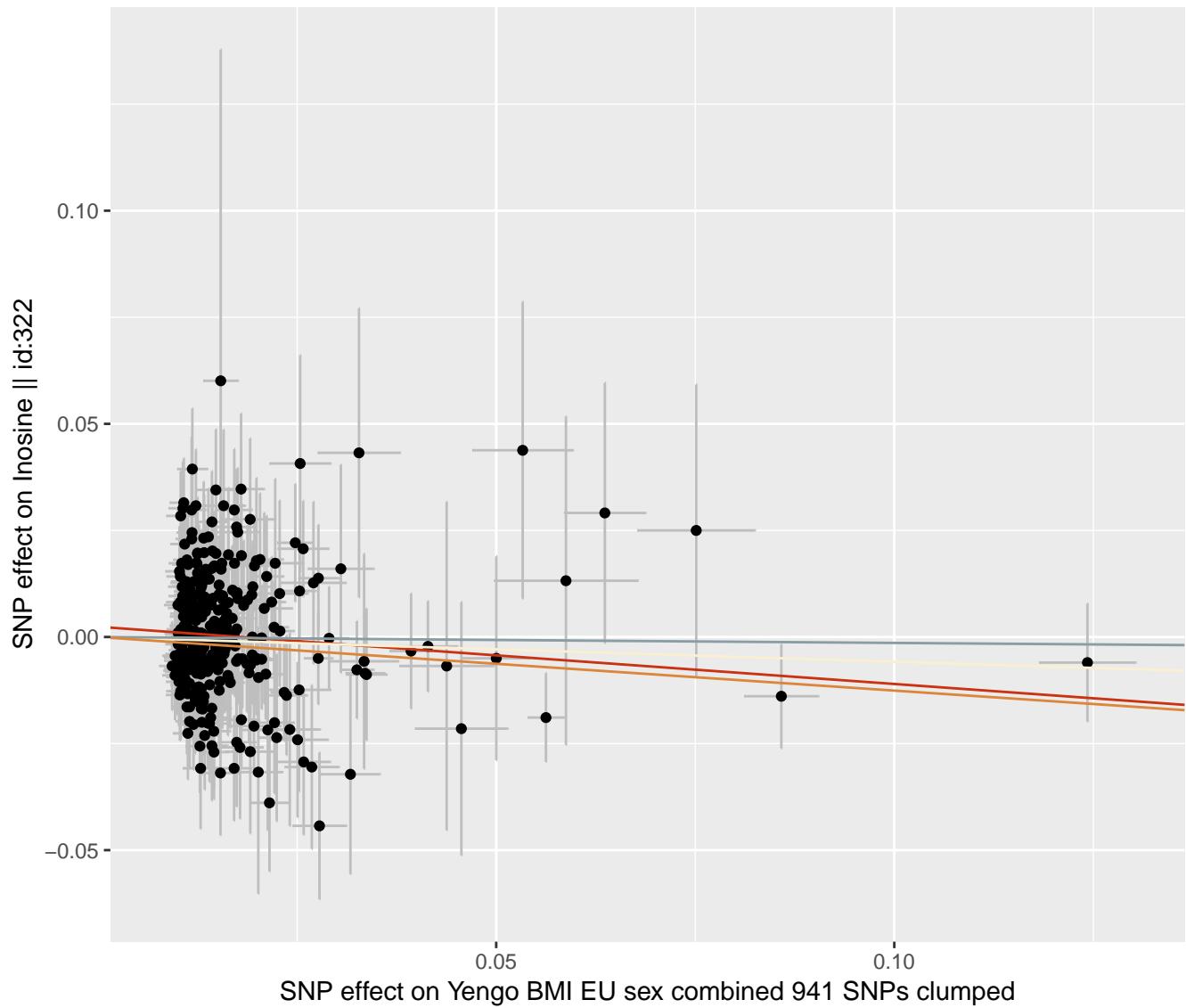
MR Egger



Weighted median

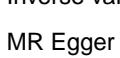


Weighted mode



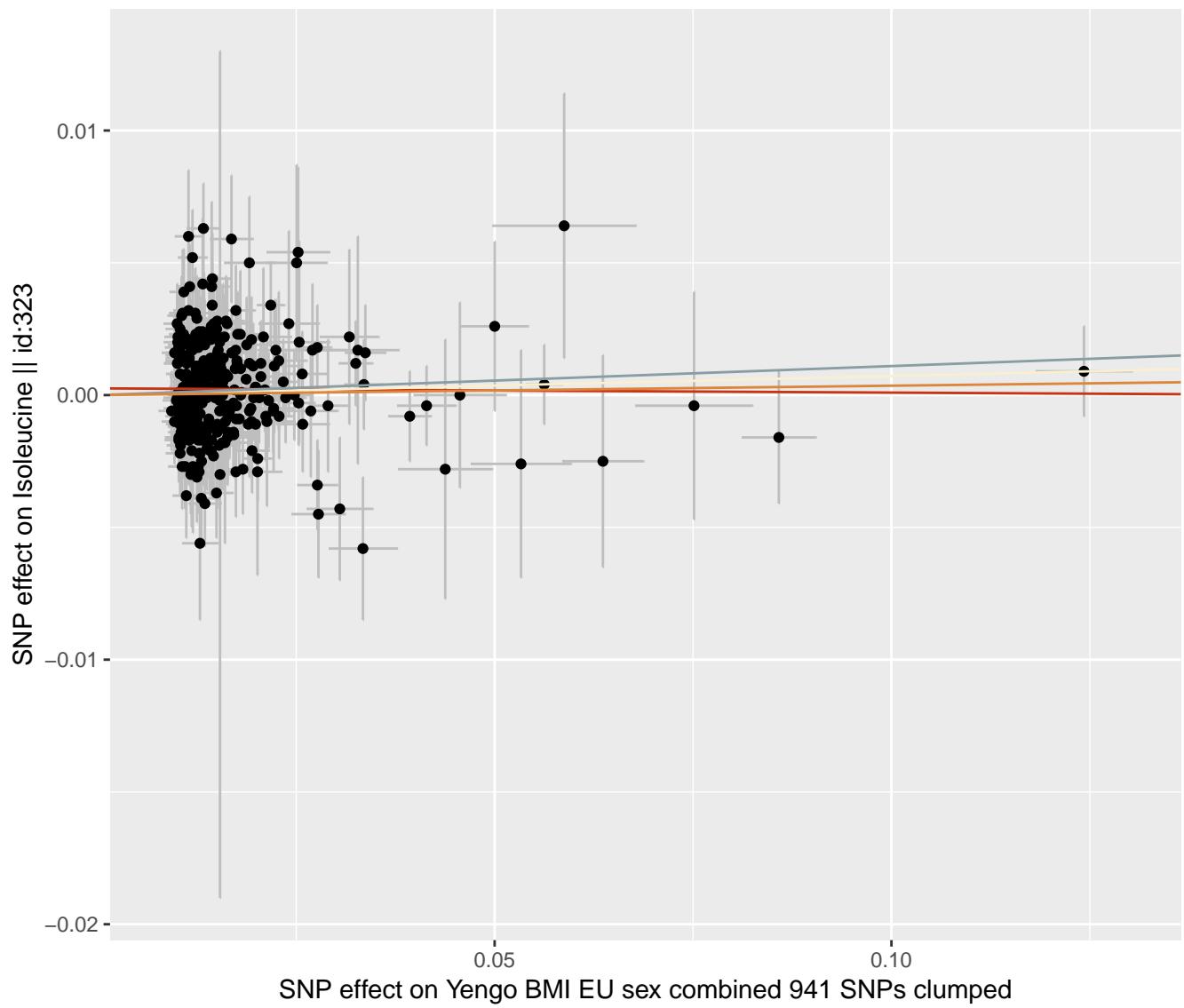
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



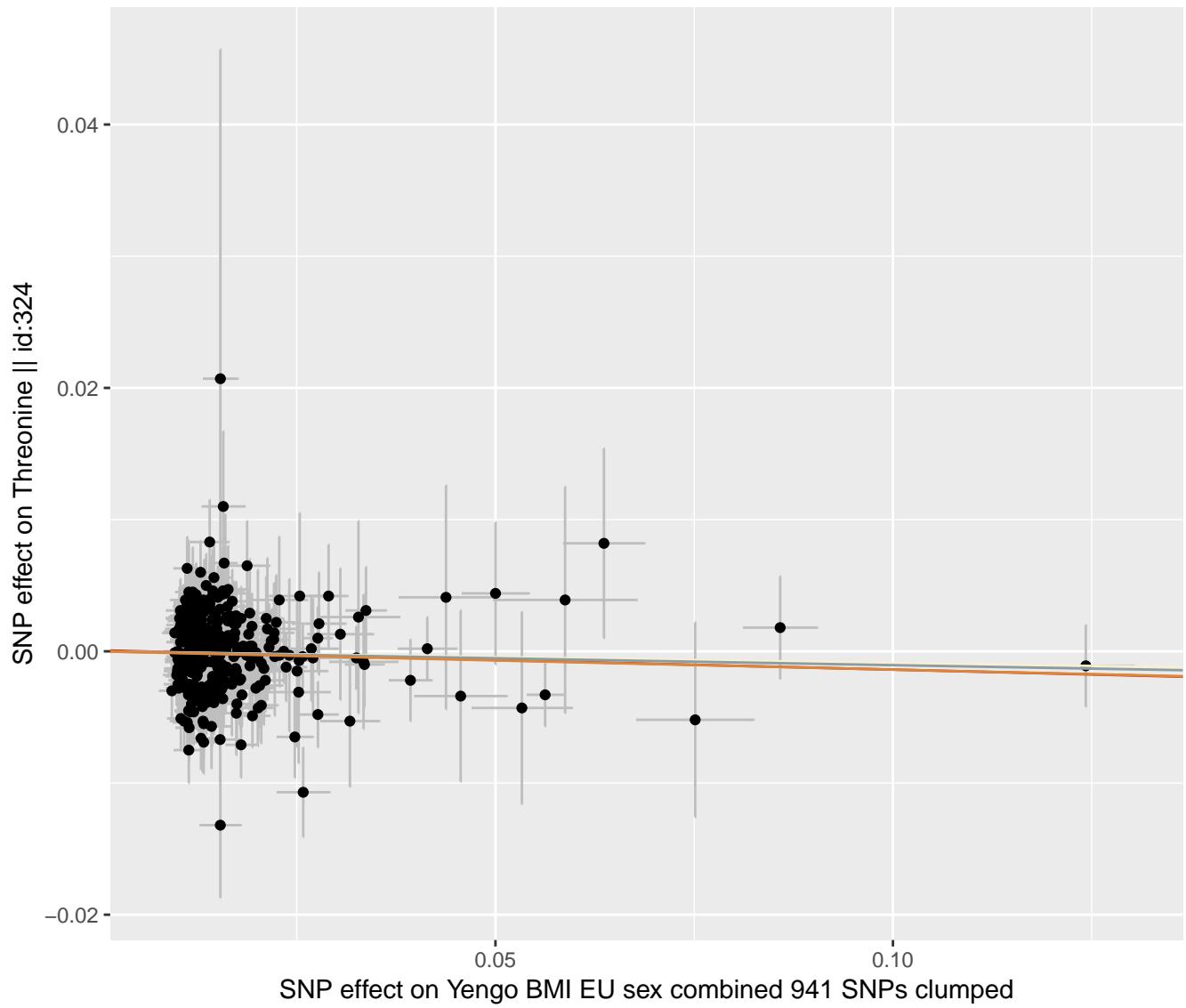
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



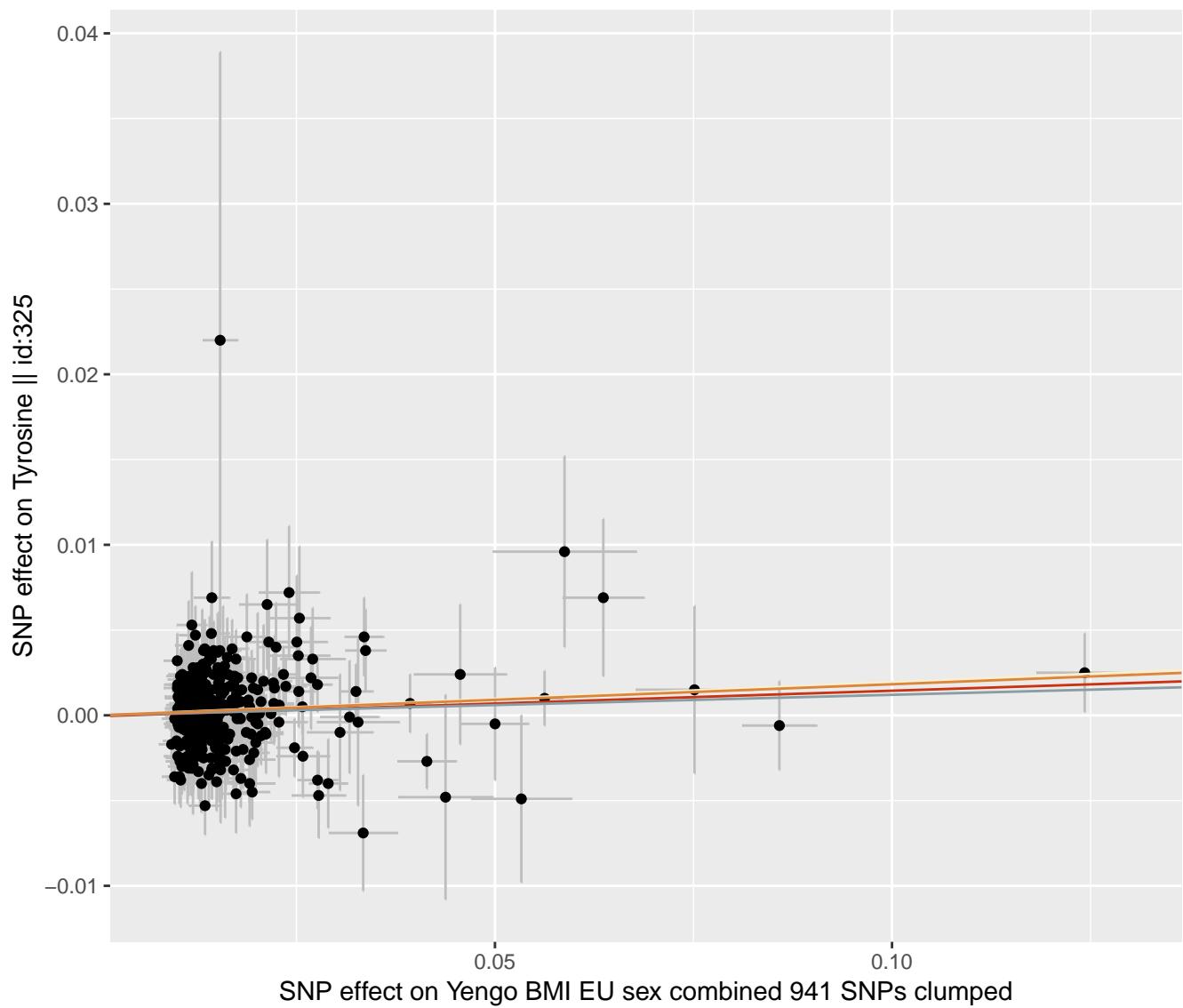
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



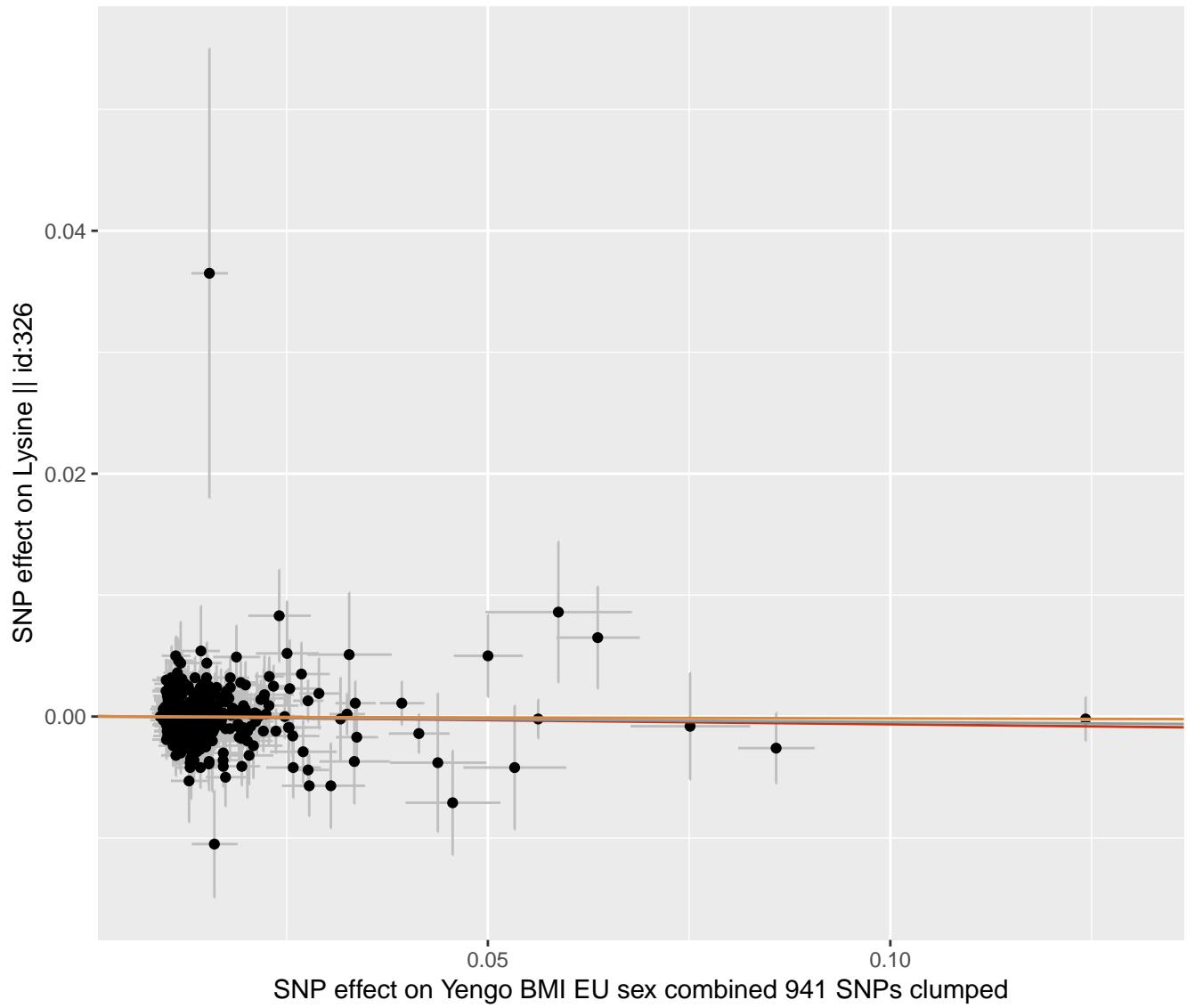
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



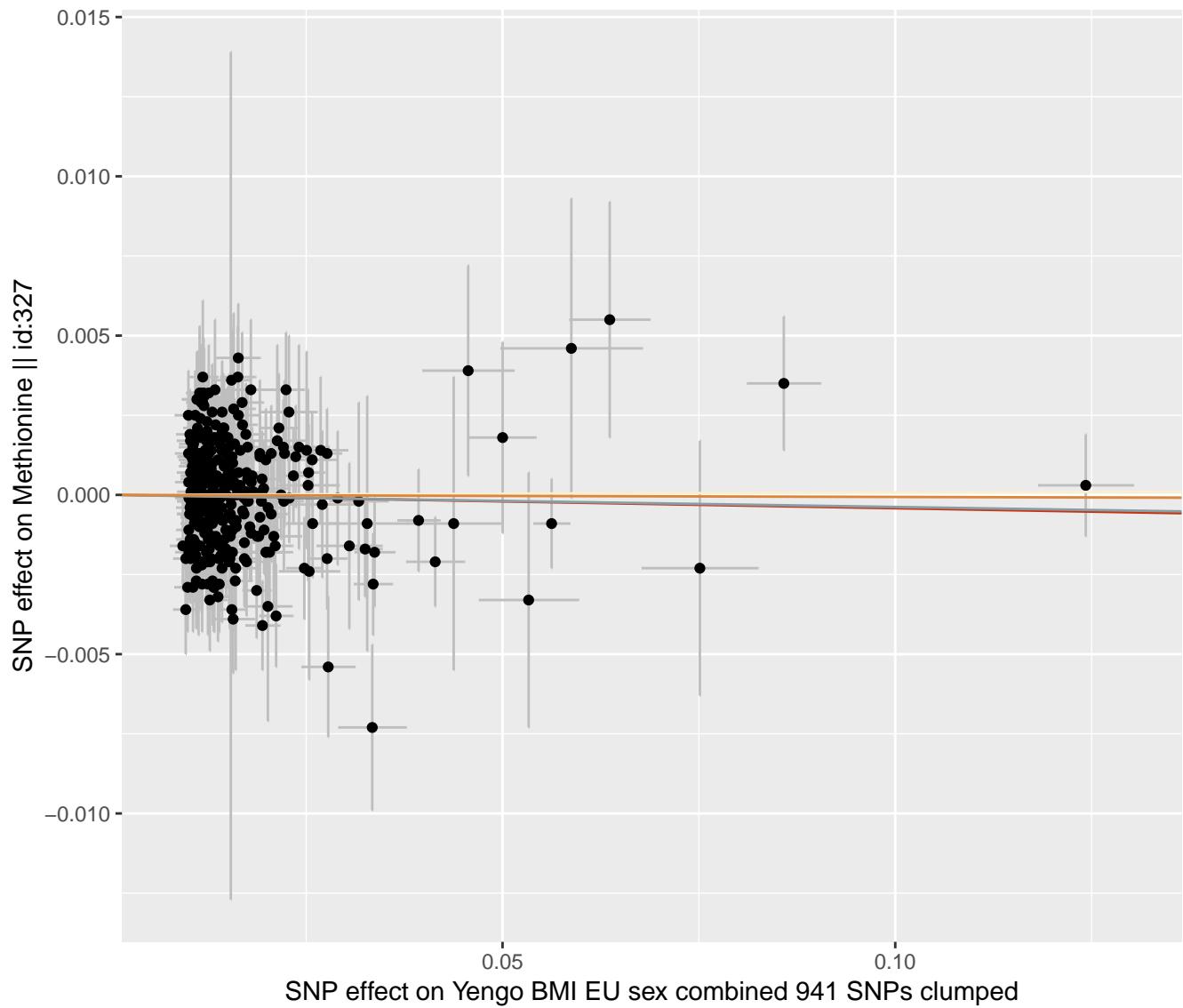
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



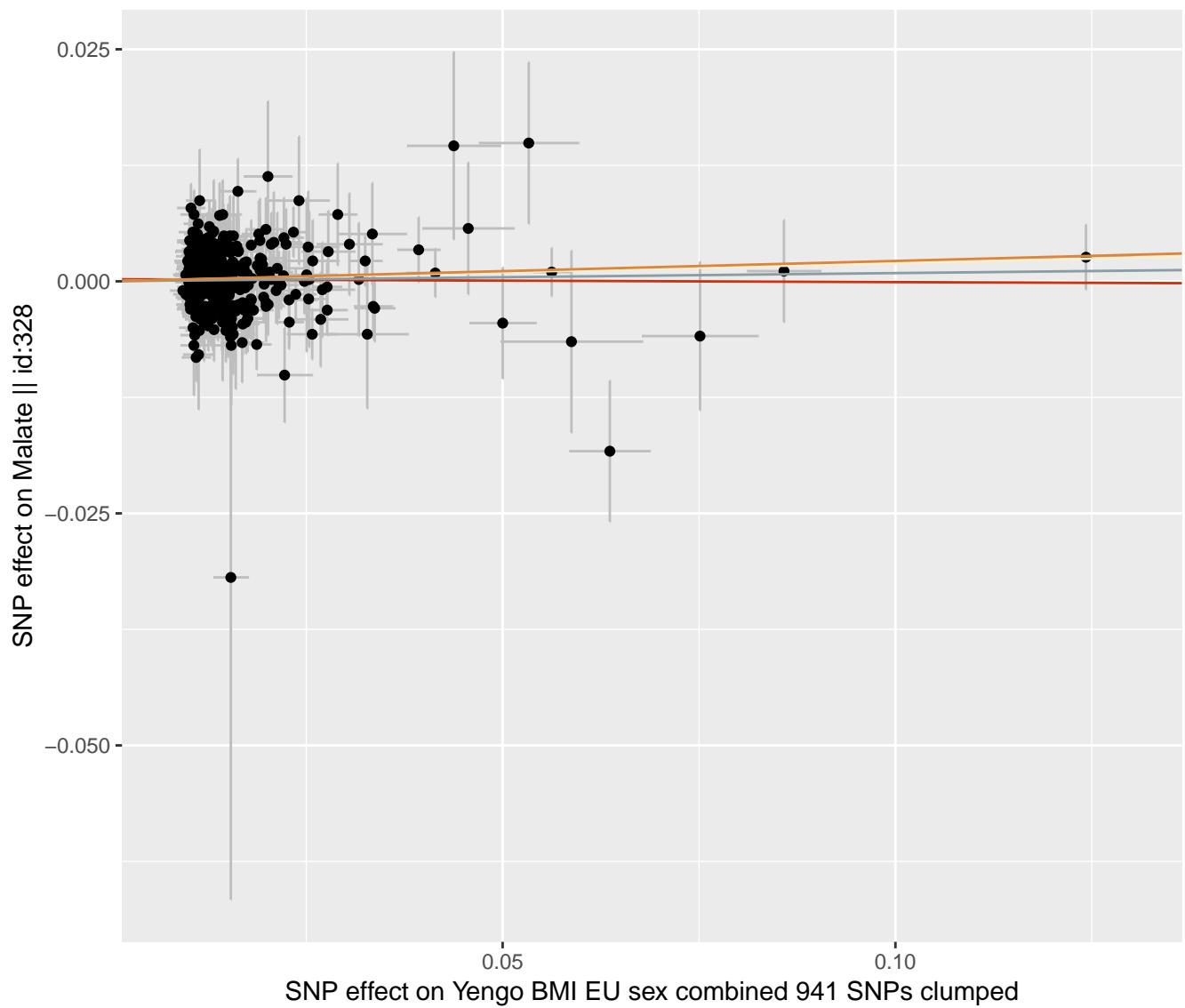
MR Egger



Weighted median



Weighted mode



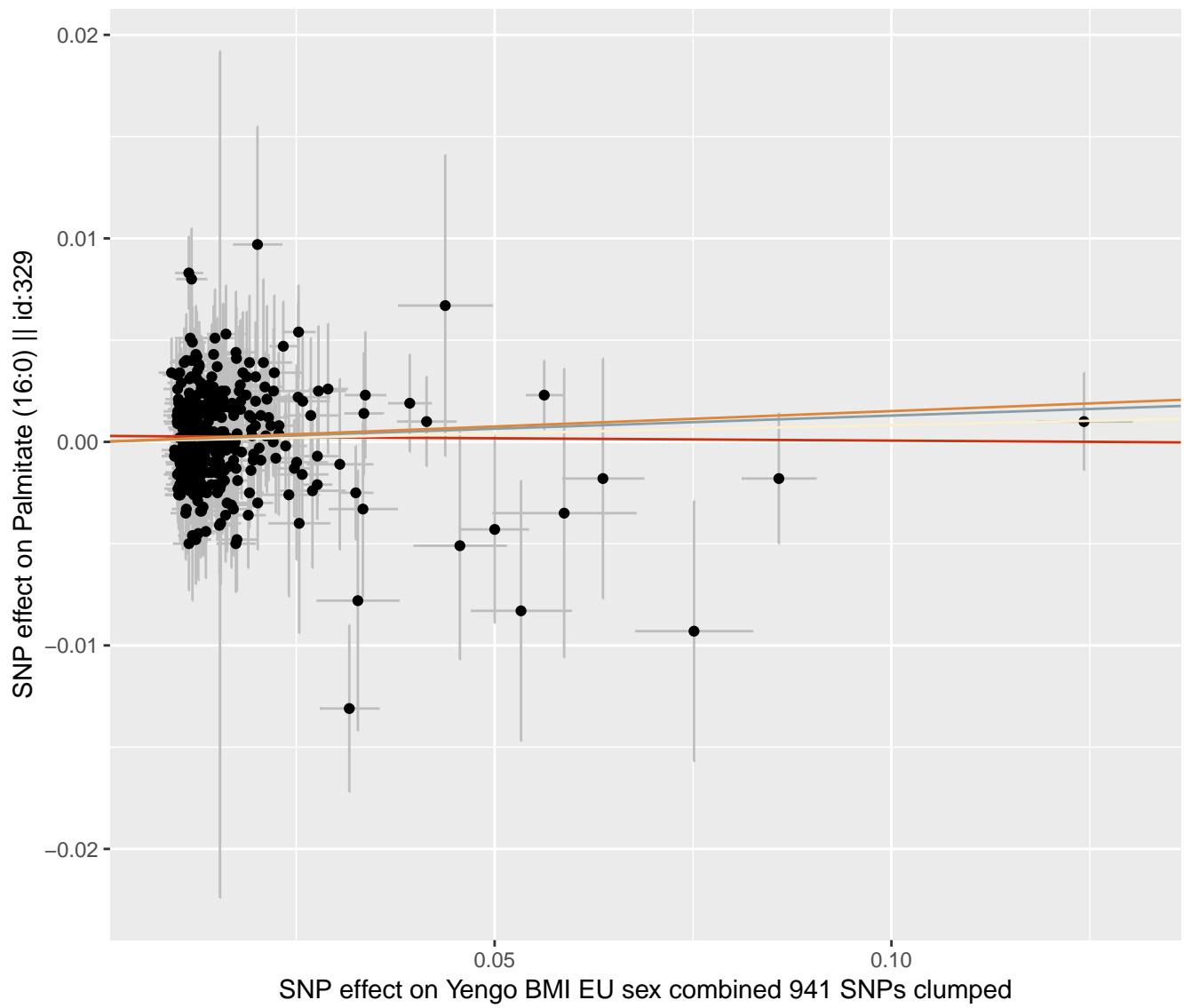
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



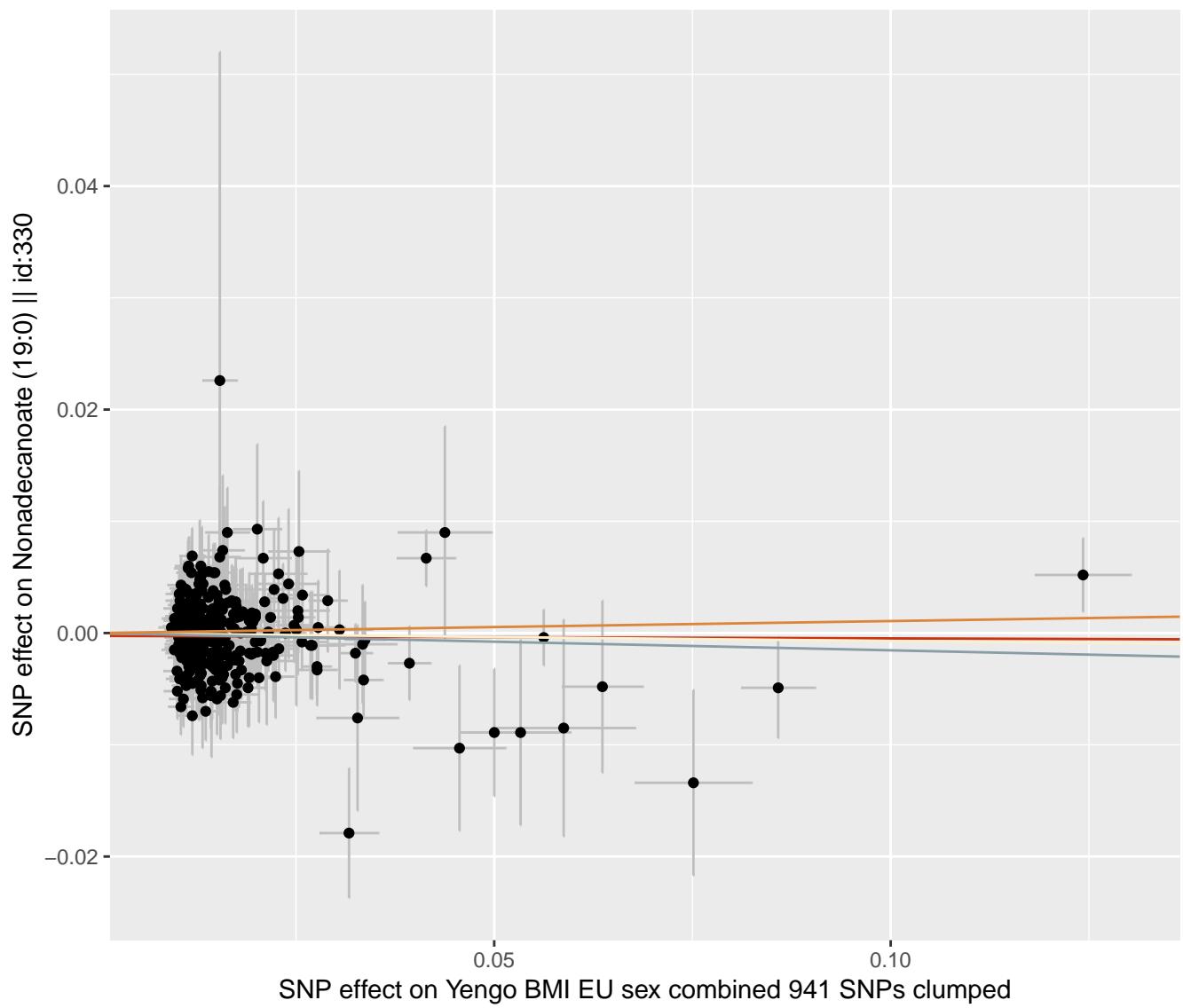
MR Egger



Weighted median

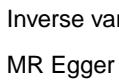


Weighted mode

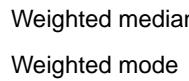


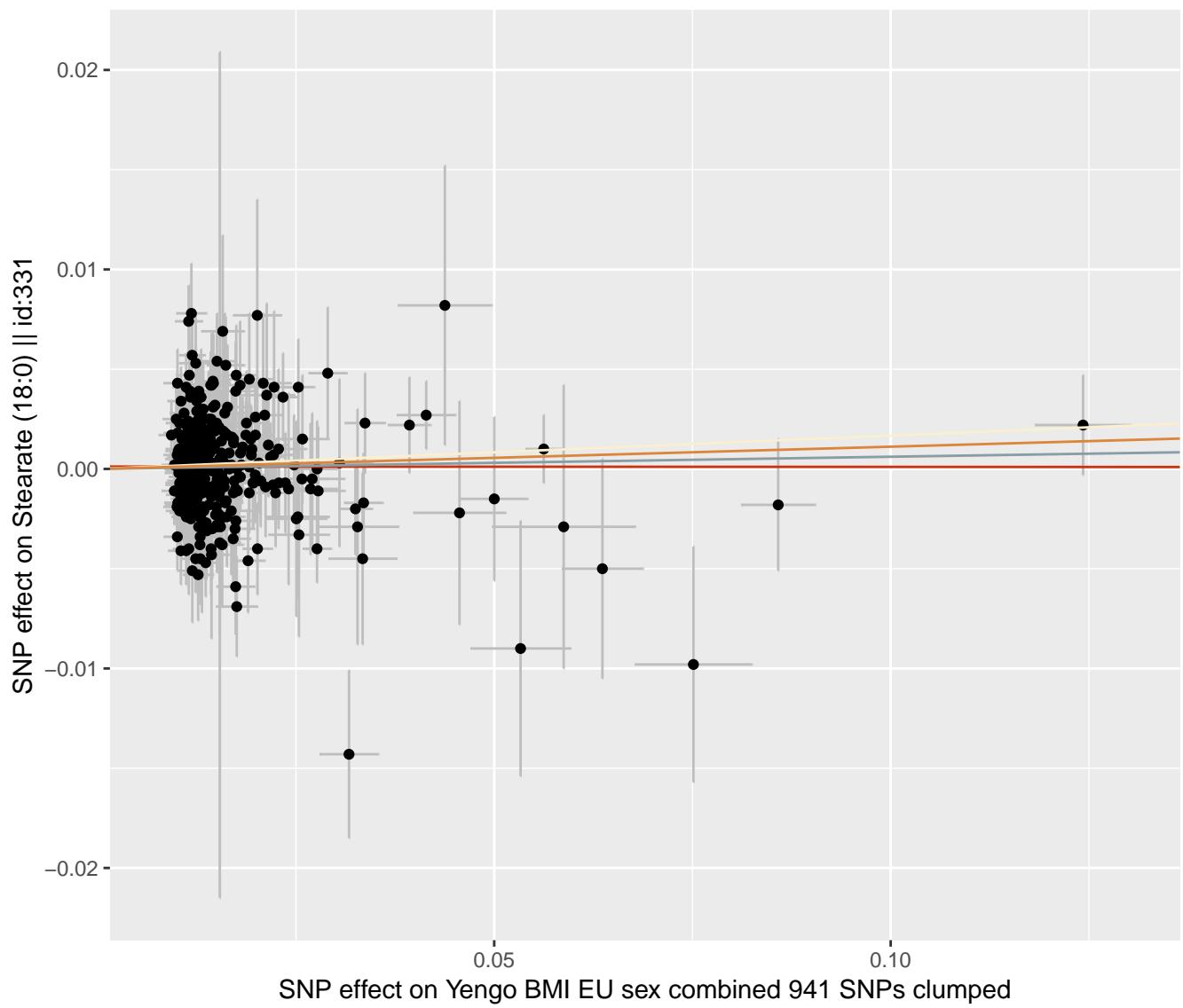
# MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



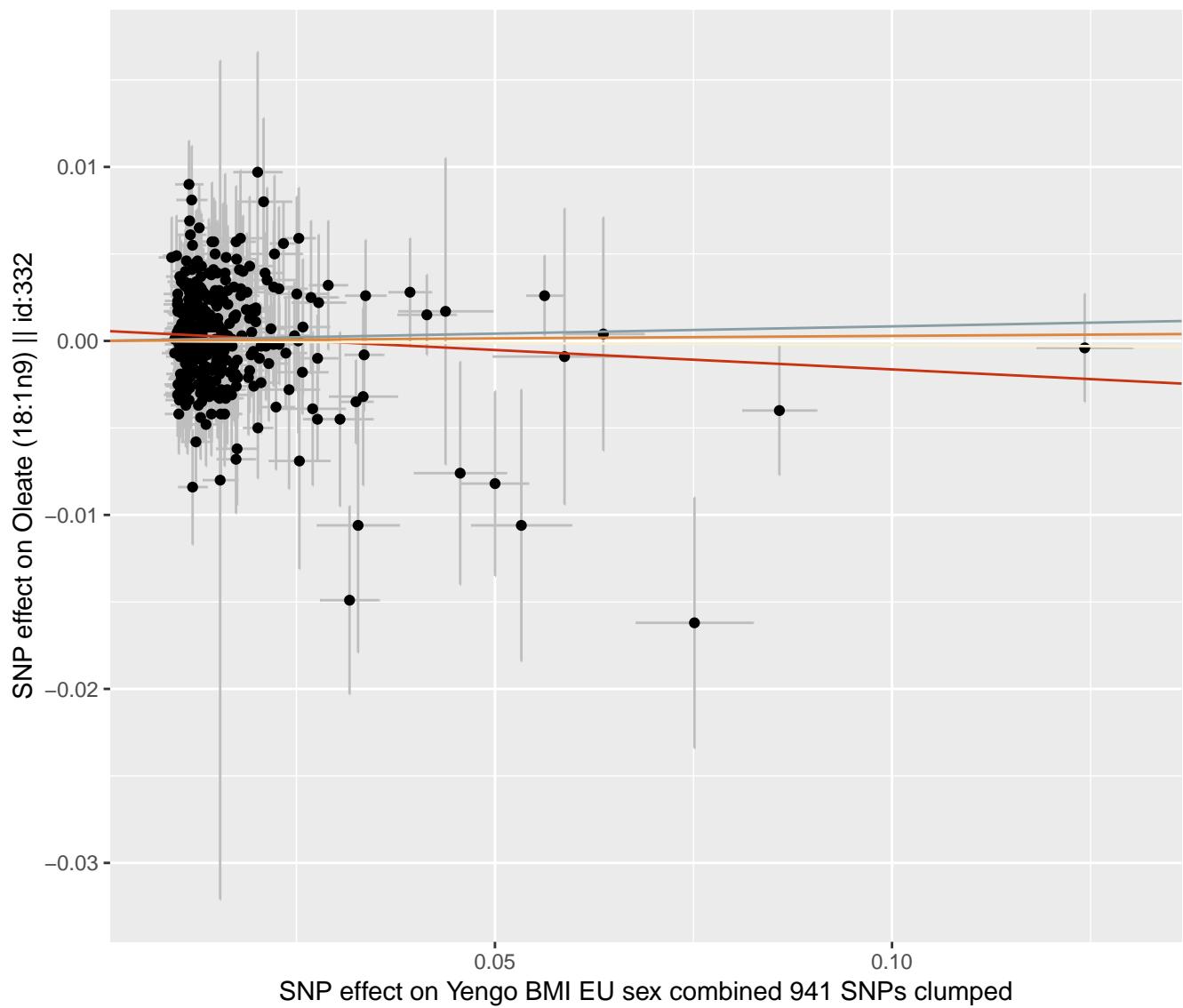
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



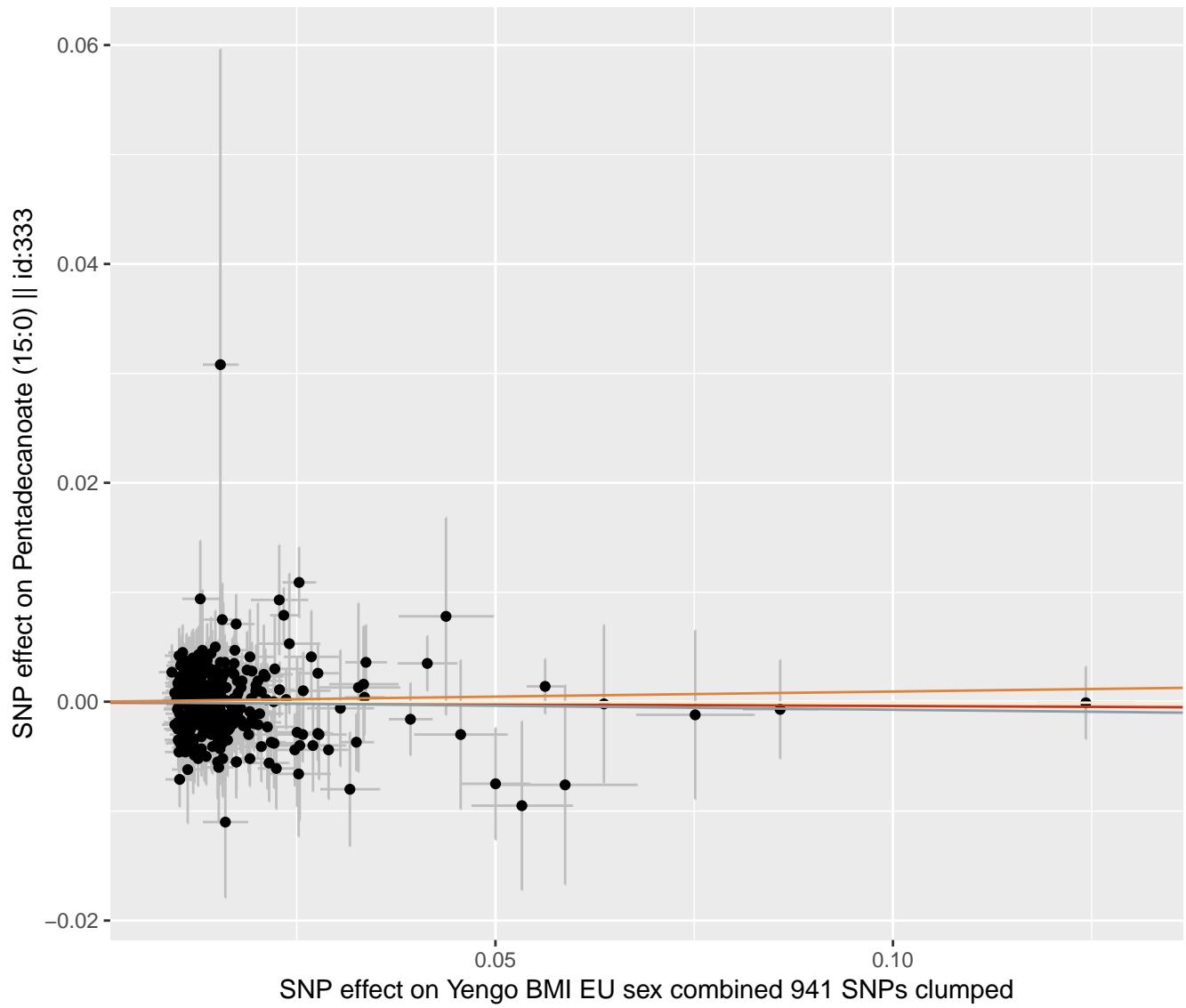
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on Myristate (14:0) || id:334

0.04

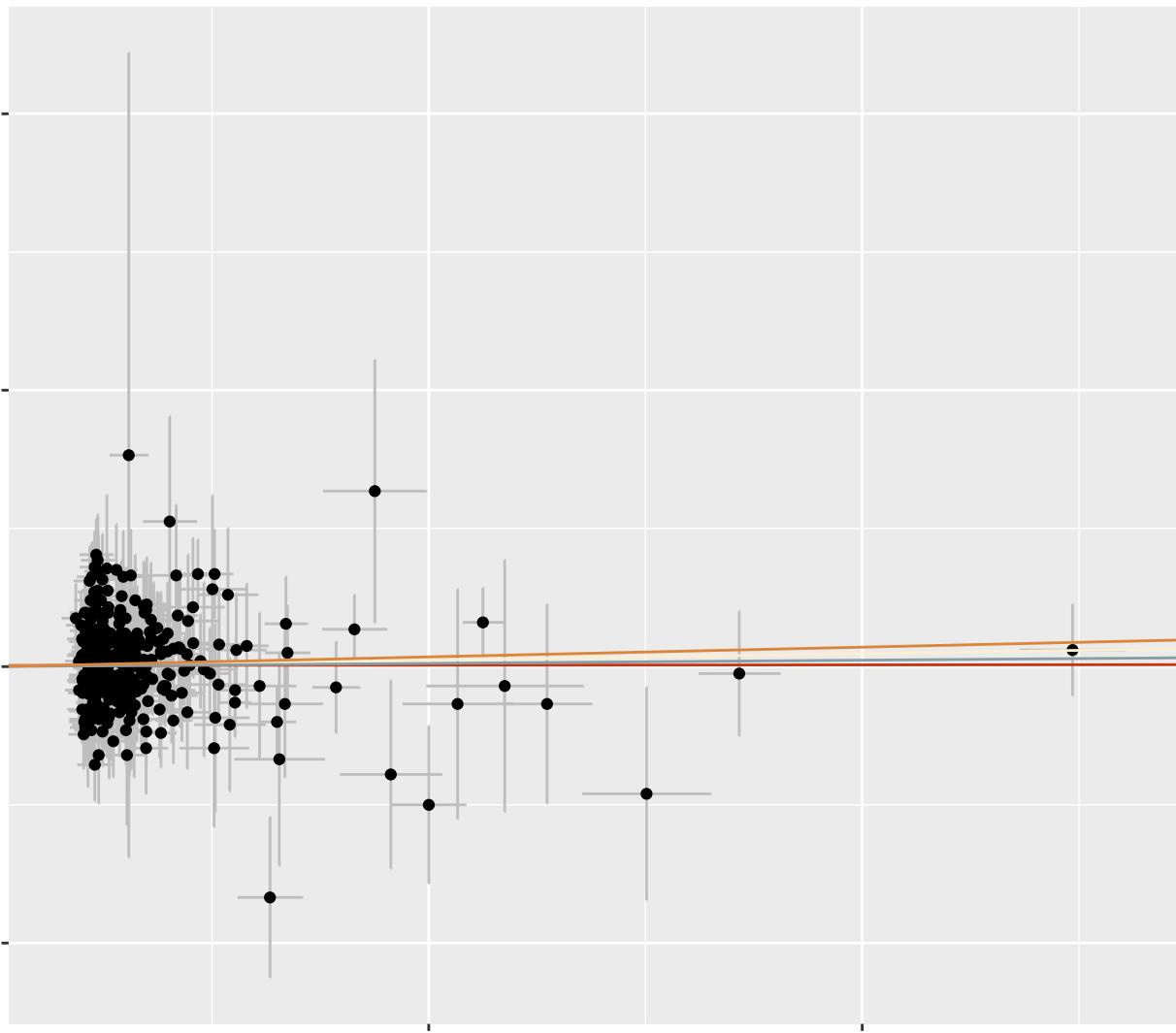
0.02

0.00

-0.02

0.05 0.10

SNP effect on Yengo BMI EU sex combined 941 SNPs clumped



### MR Test



Inverse variance weighted (multiplicative random effects)



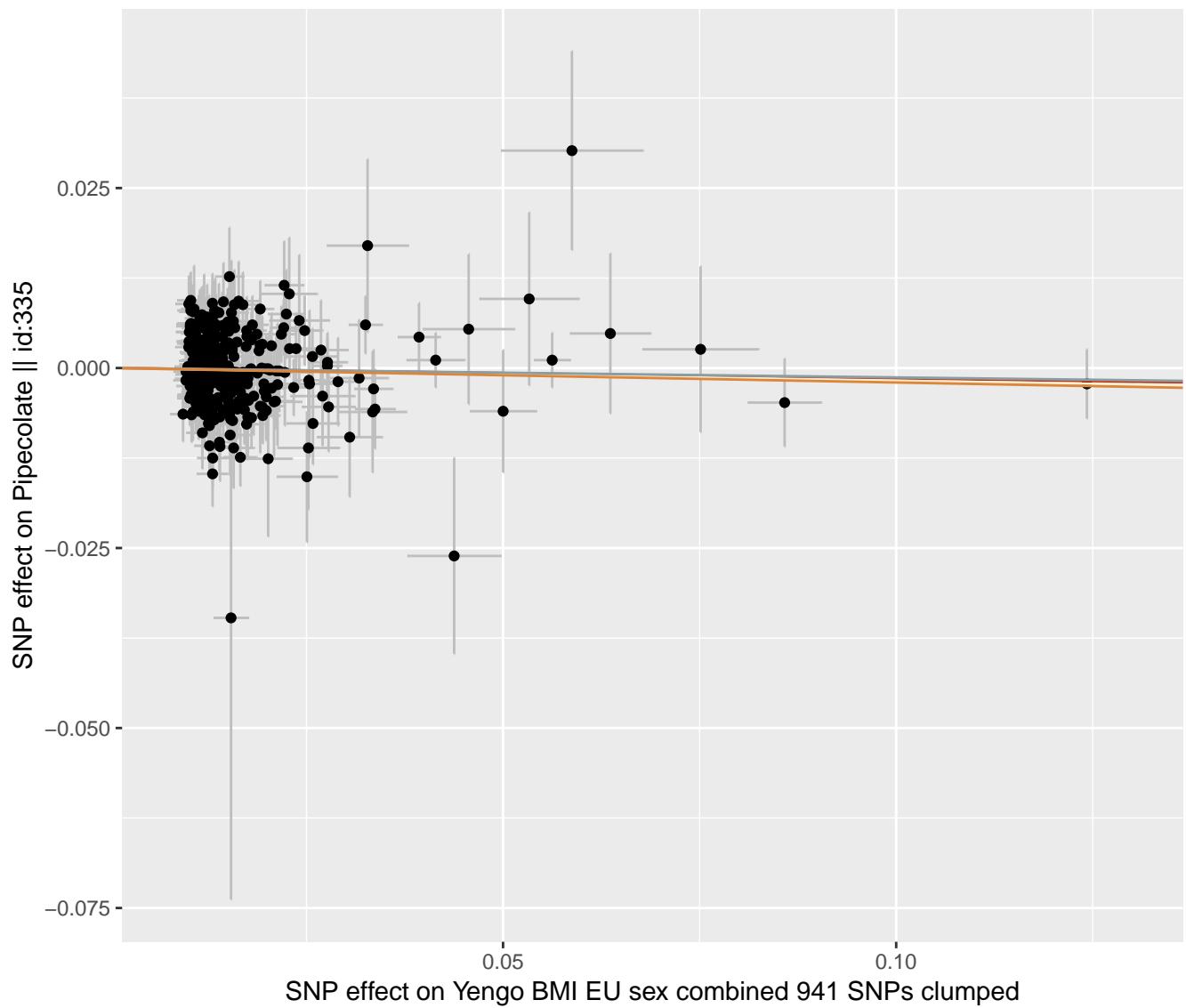
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



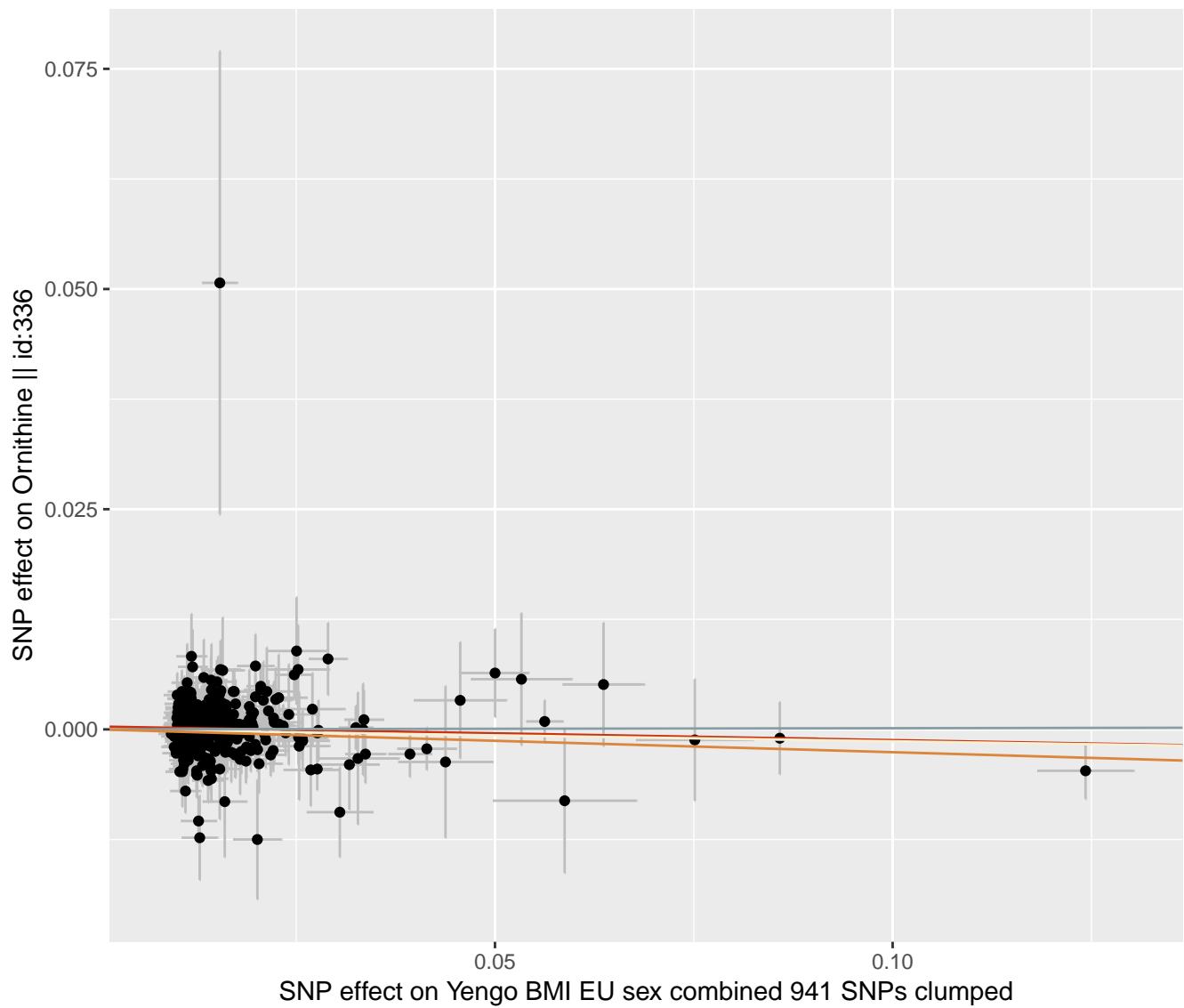
MR Egger



Weighted median



Weighted mode



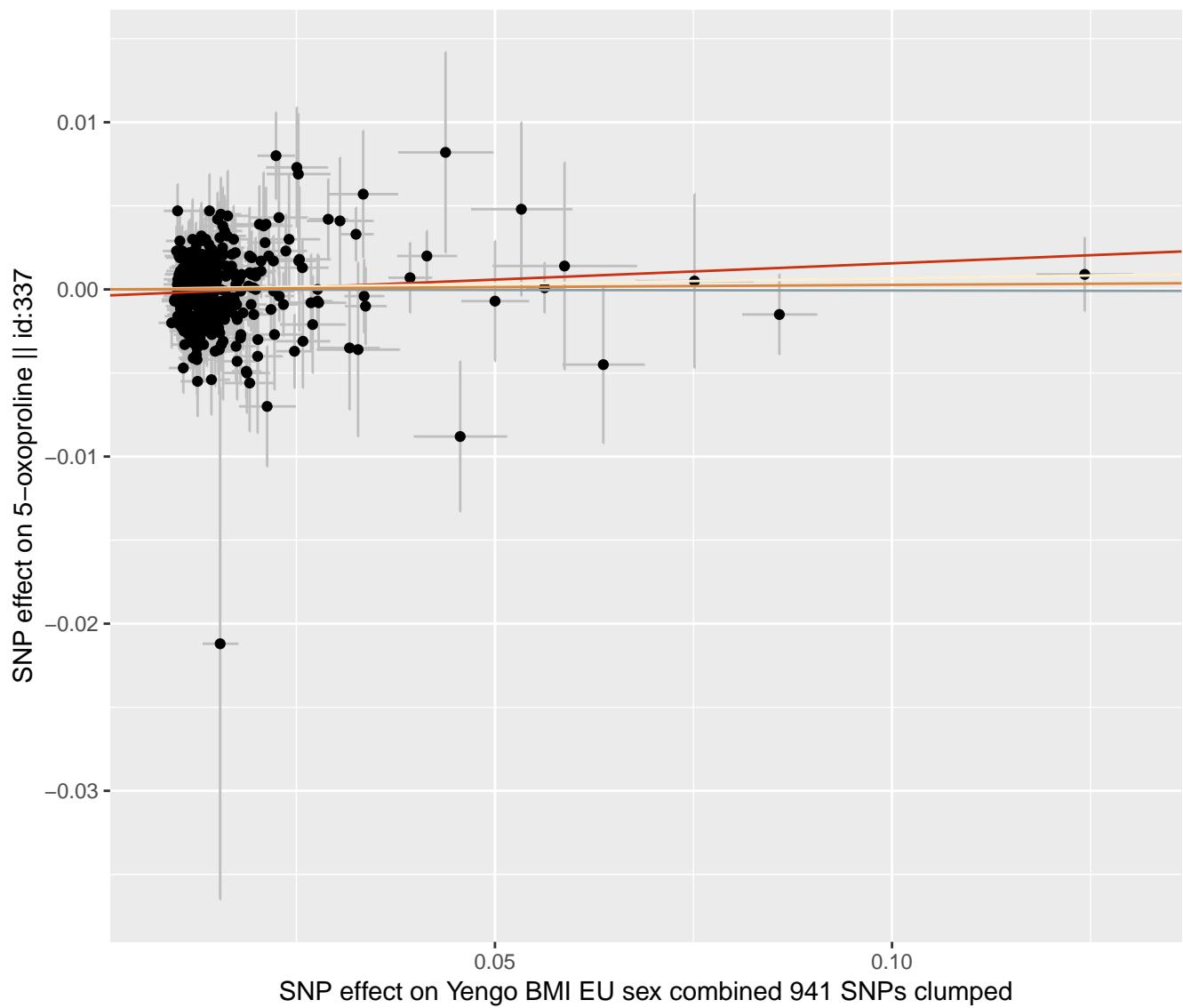
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

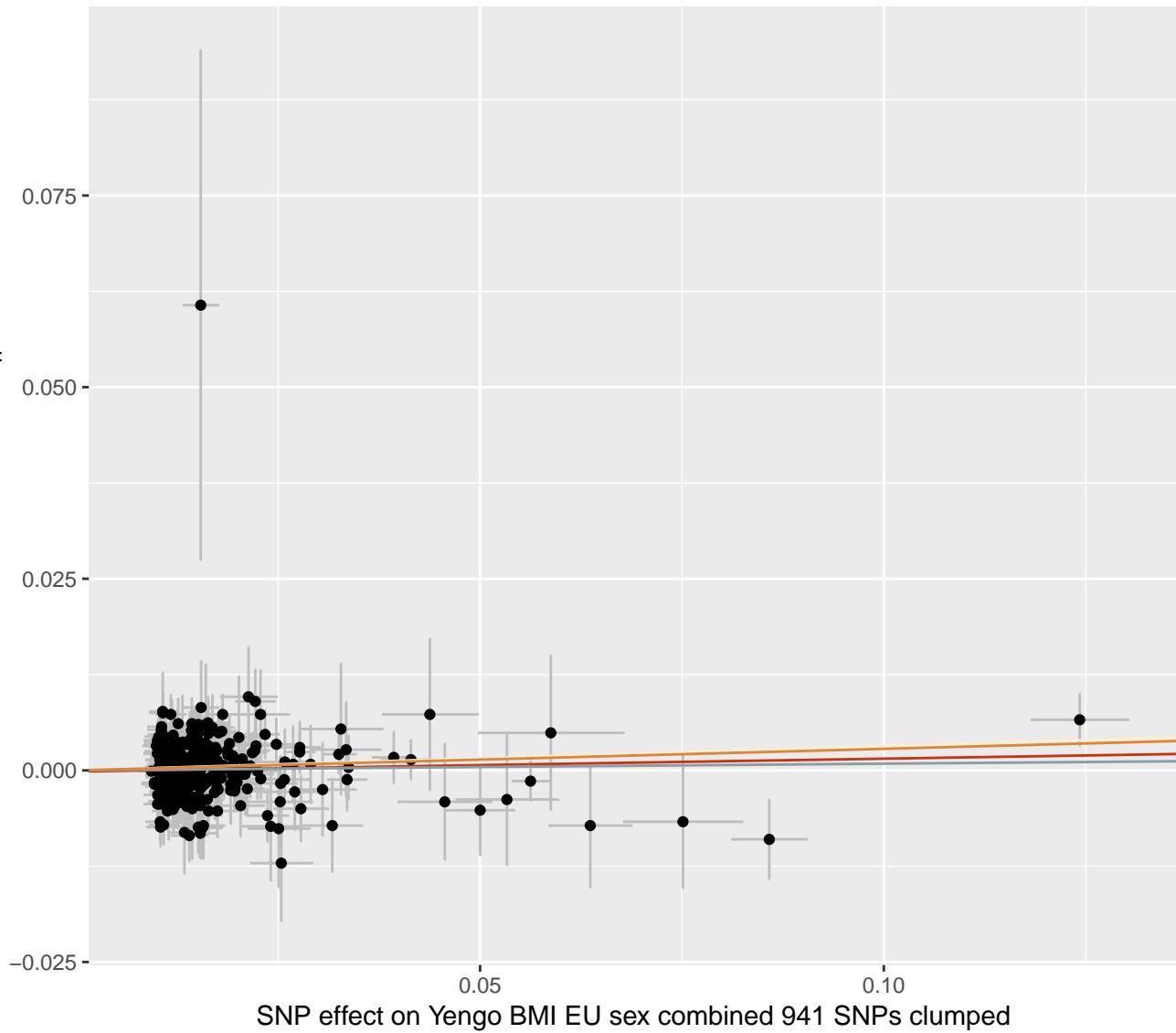


Weighted median



Weighted mode

SNP effect on Pantothenate || id:338



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

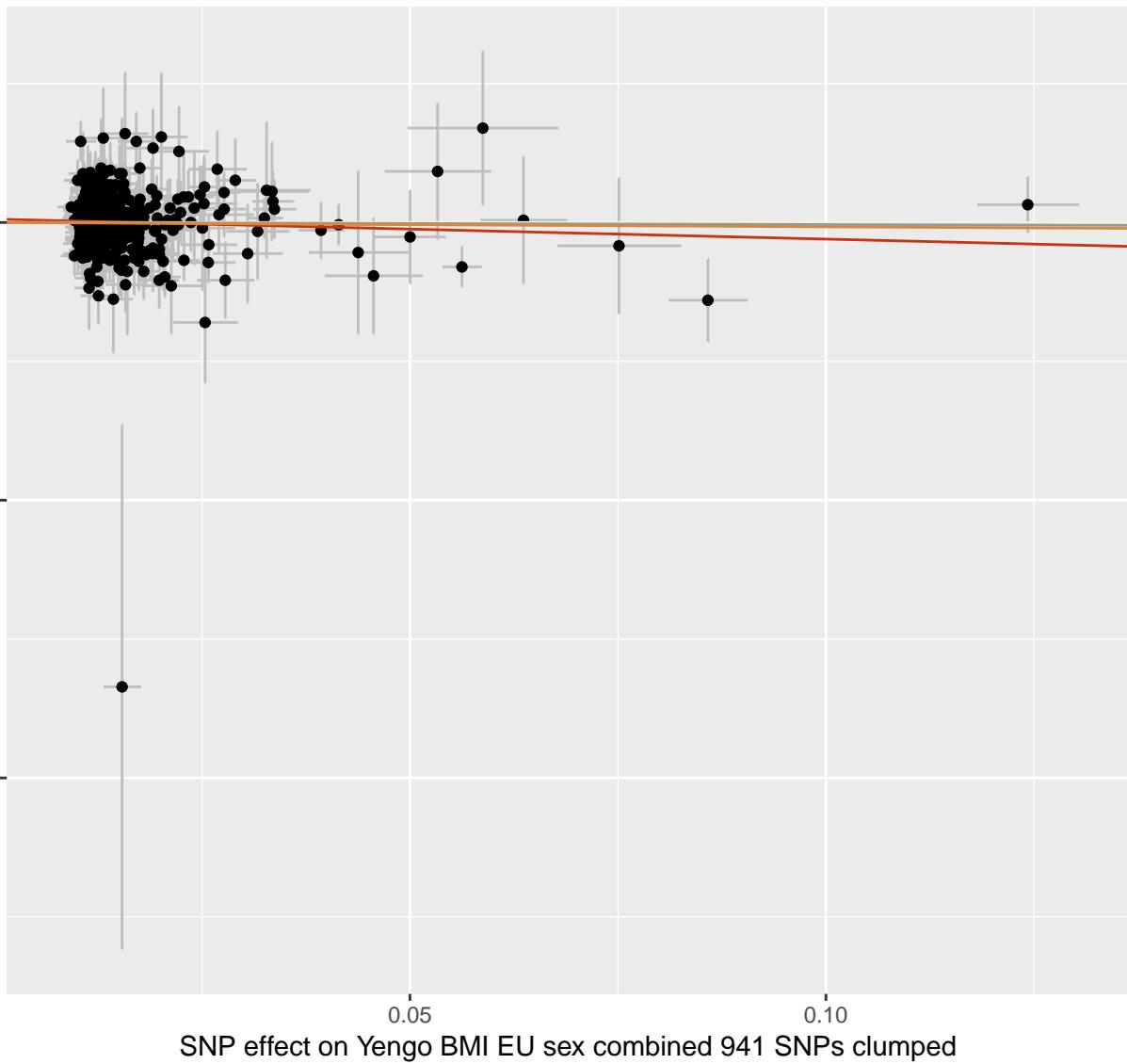


Weighted median



Weighted mode

SNP effect on 4-acetamidobutanoate || id:339



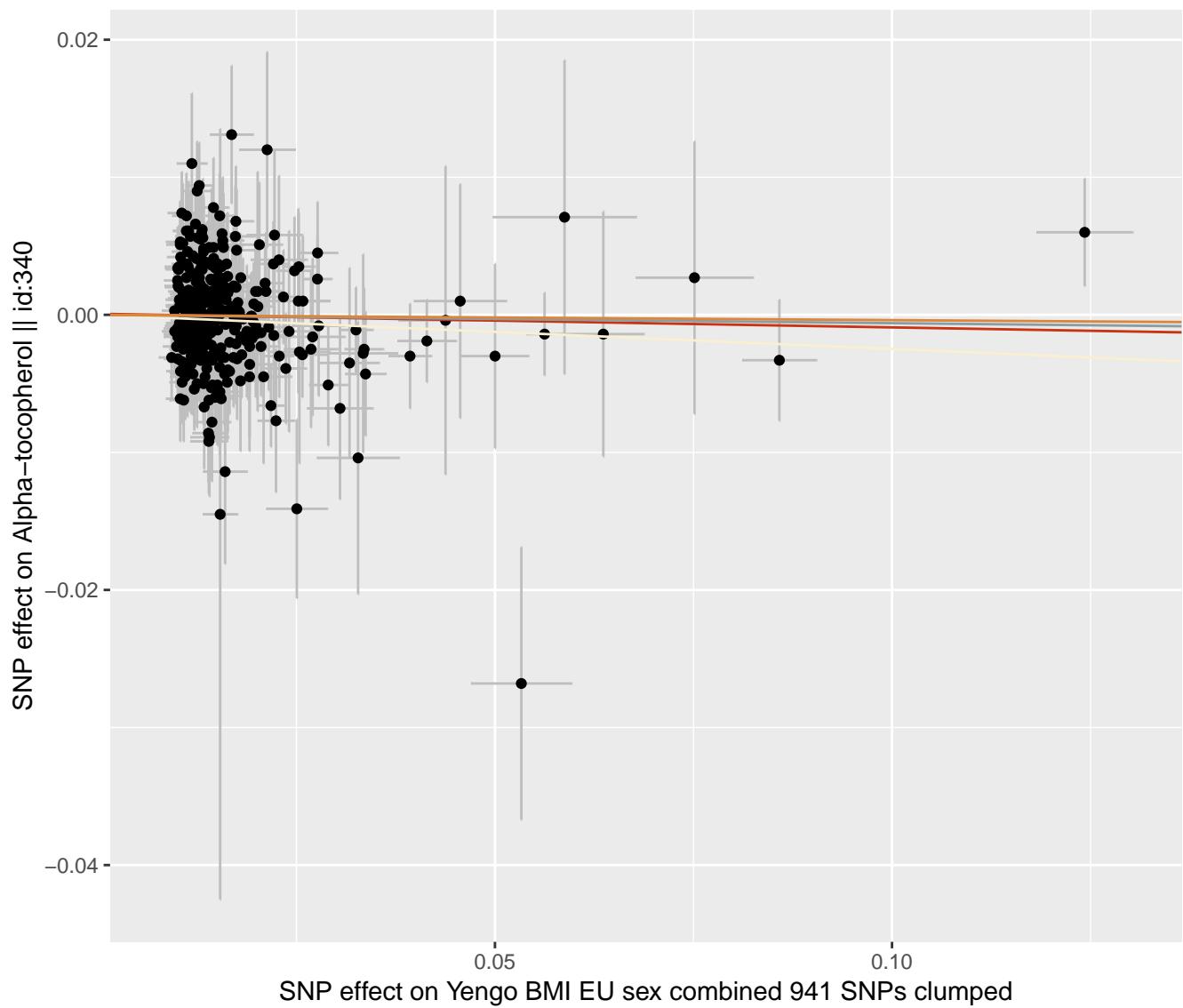
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

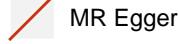
 Weighted median

 Weighted mode



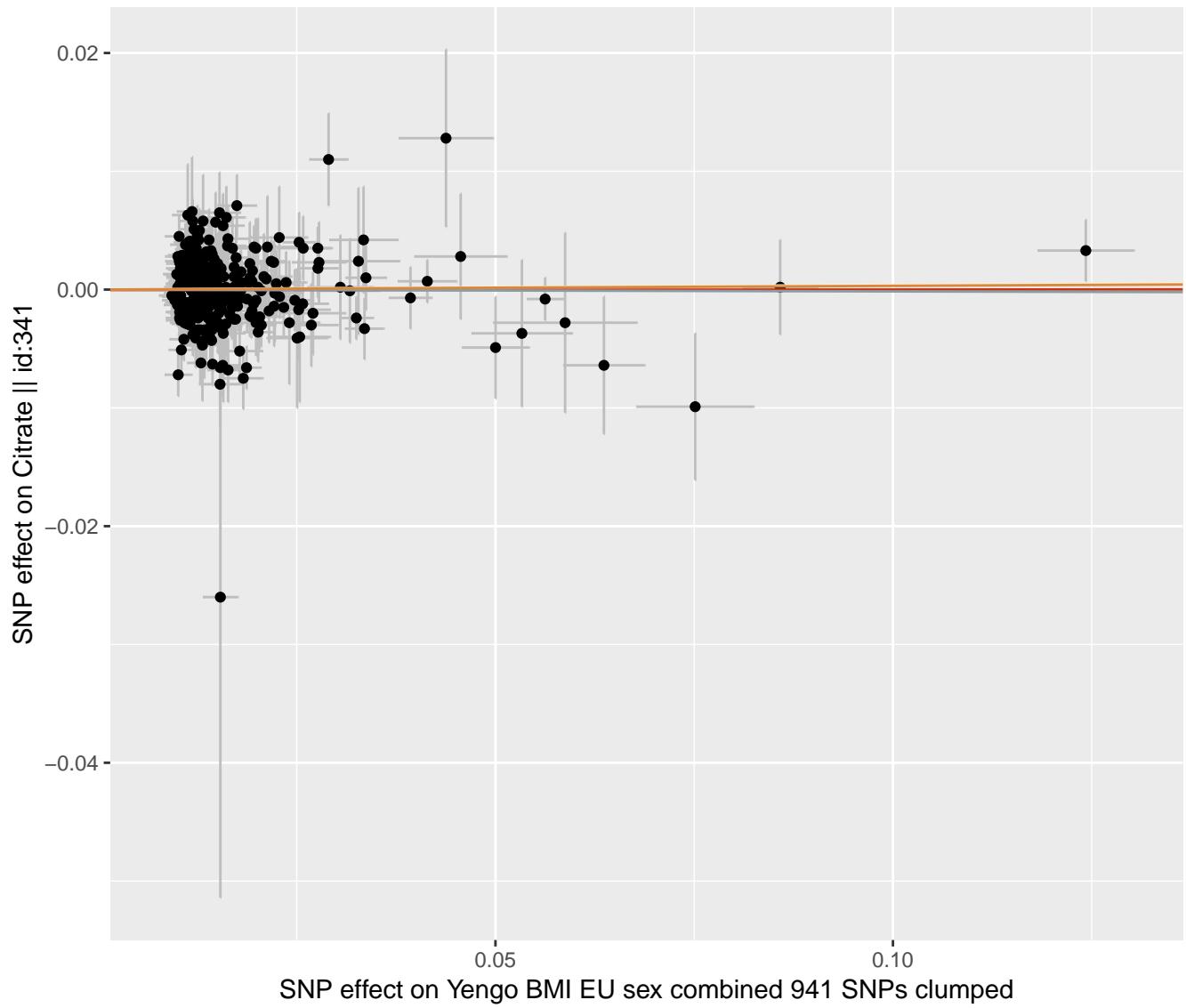
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



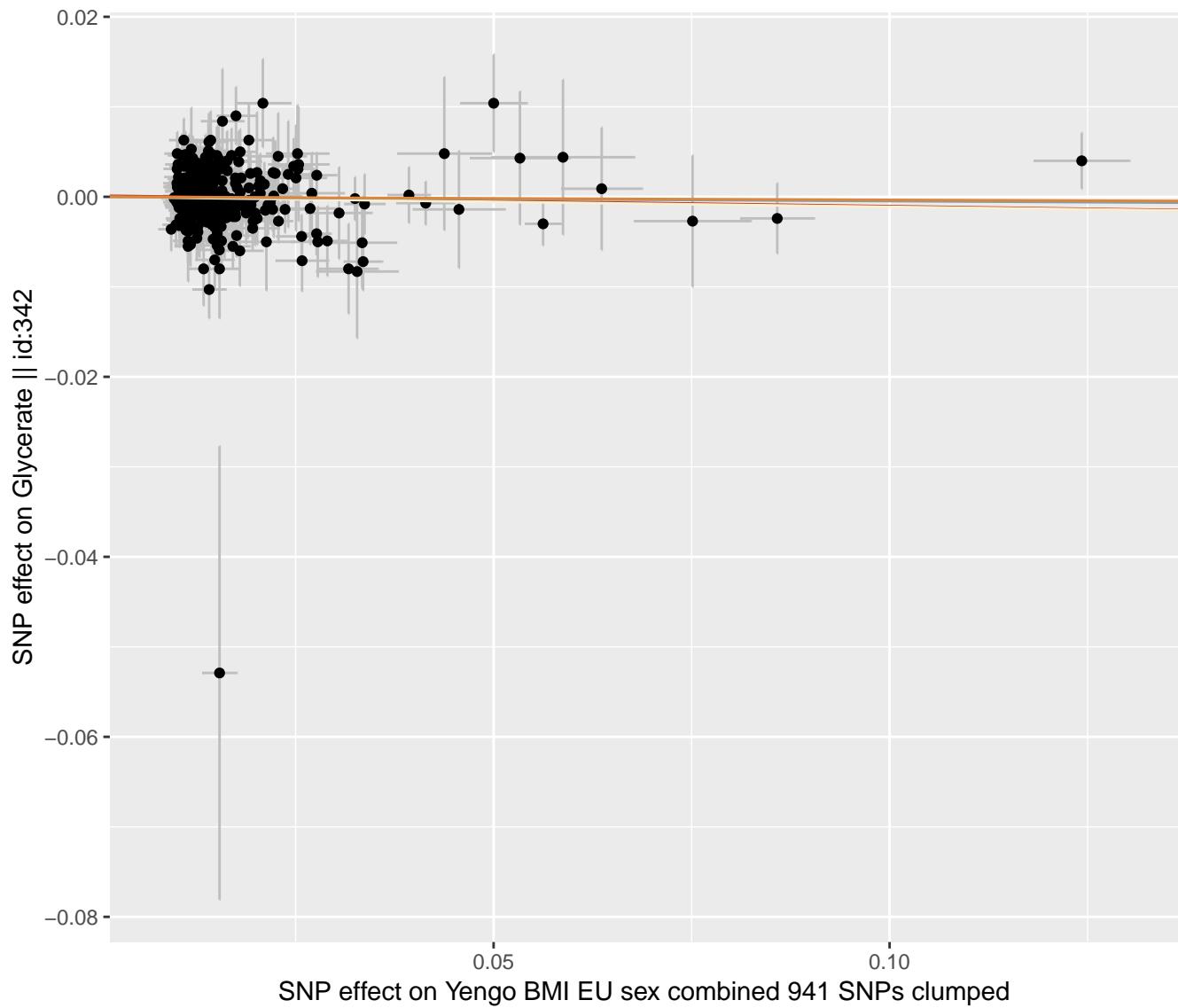
MR Egger



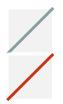
Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



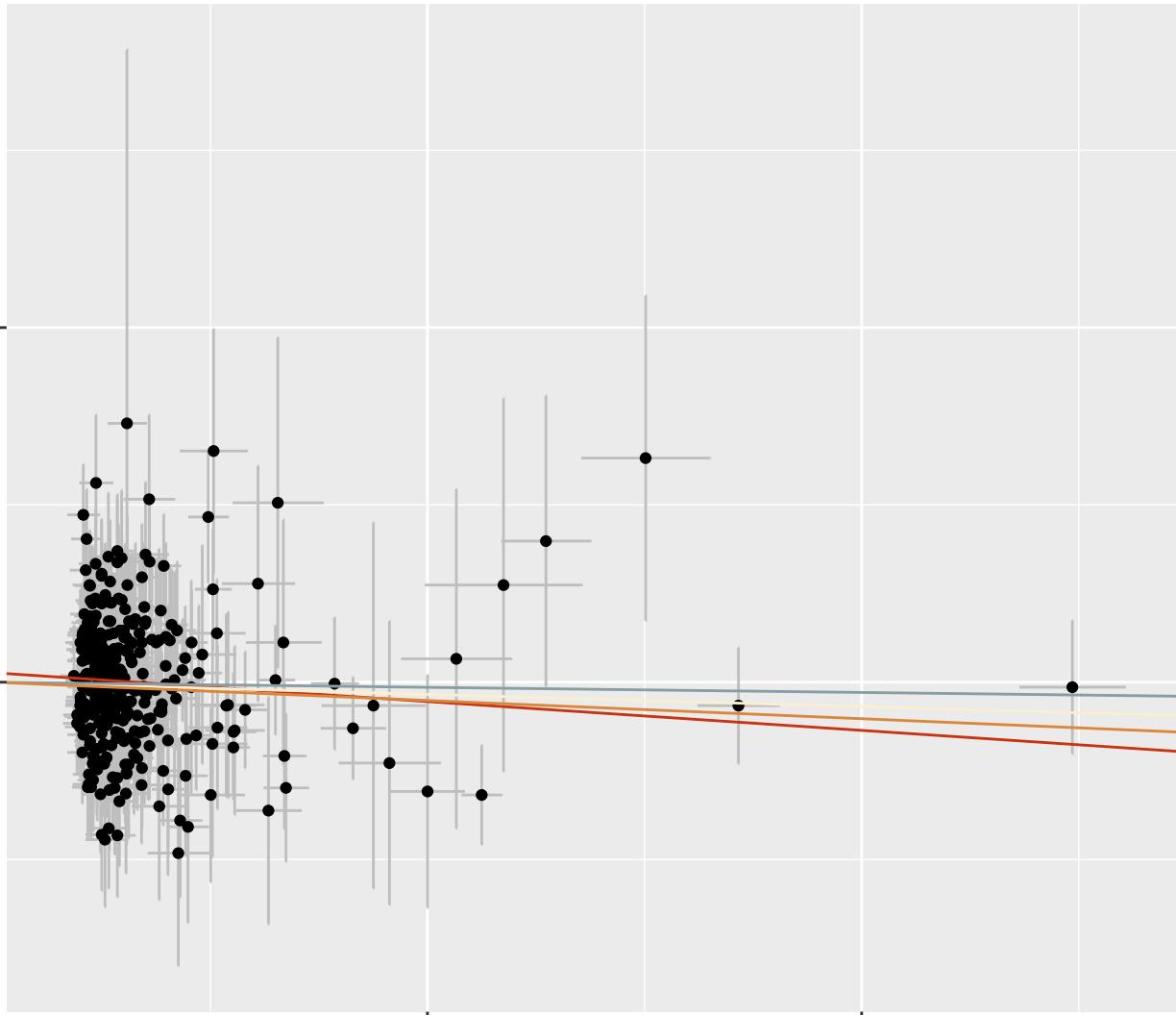
Weighted mode

SNP effect on Guanosine || id:343

0.05

0.10

SNP effect on Yengo BMI EU sex combined 941 SNPs clumped



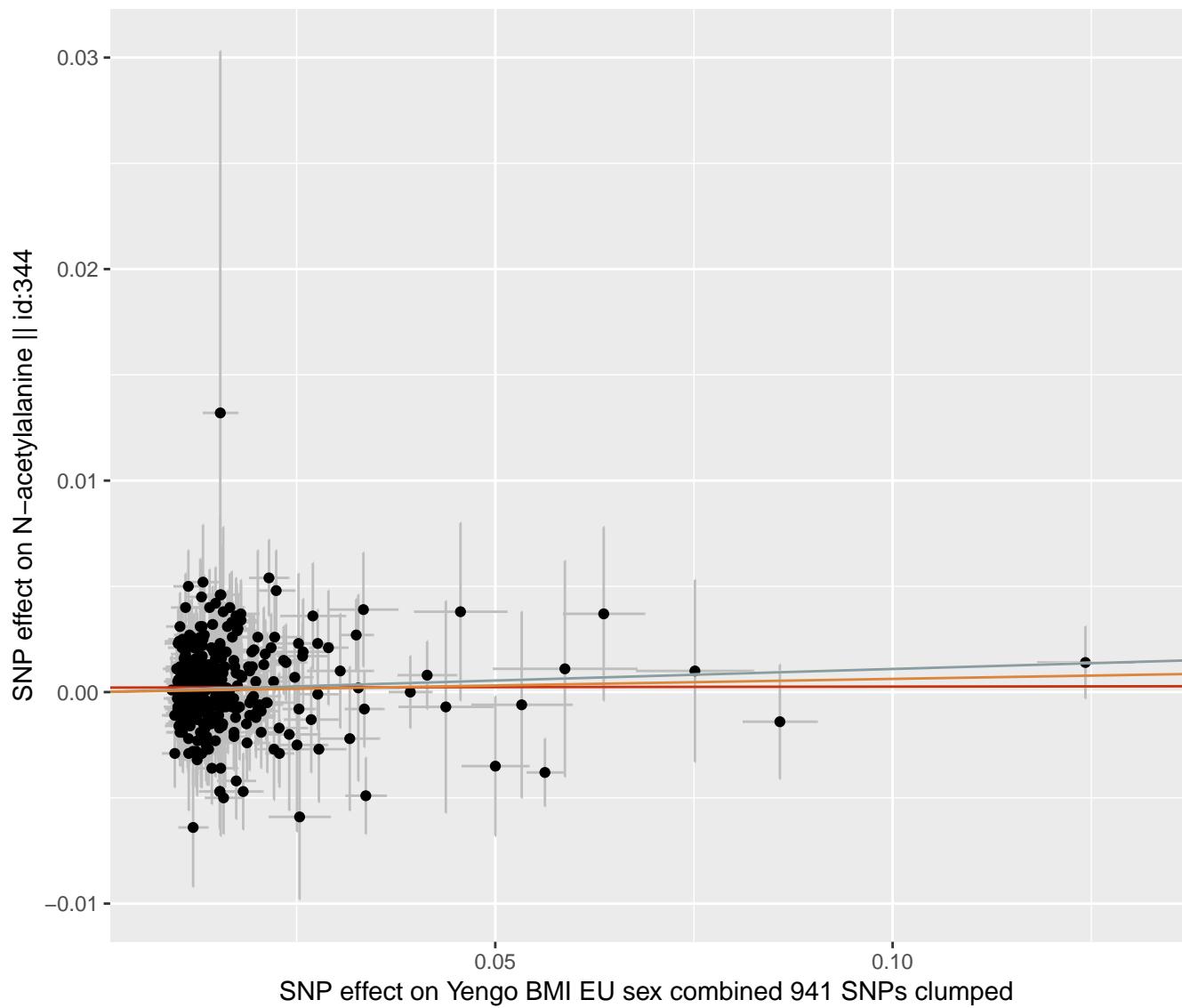
## MR Test

### Inverse variance weighted (multiplicative random effects)

MR Egger

## Weighted median

### Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



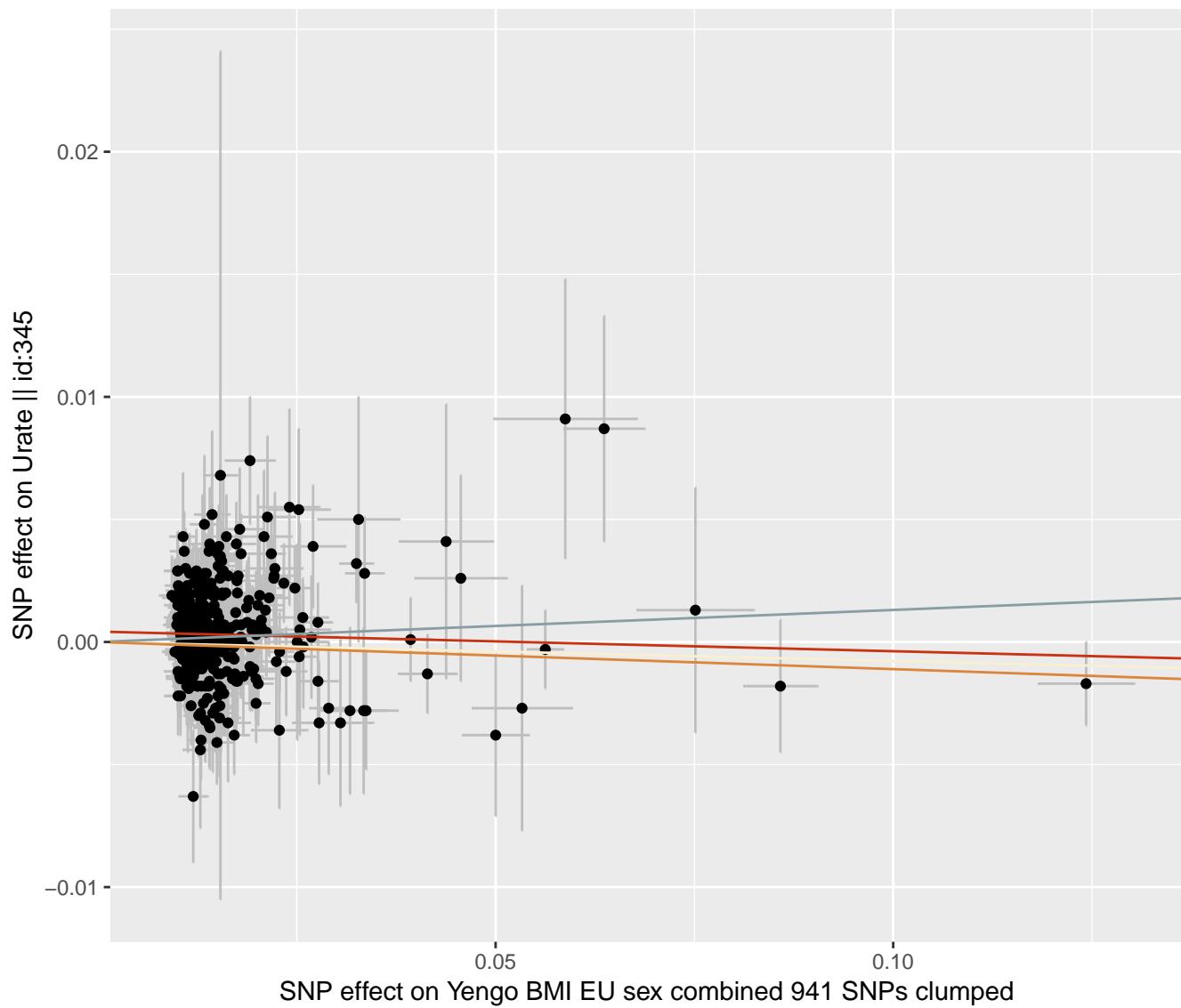
MR Egger



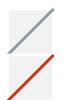
Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



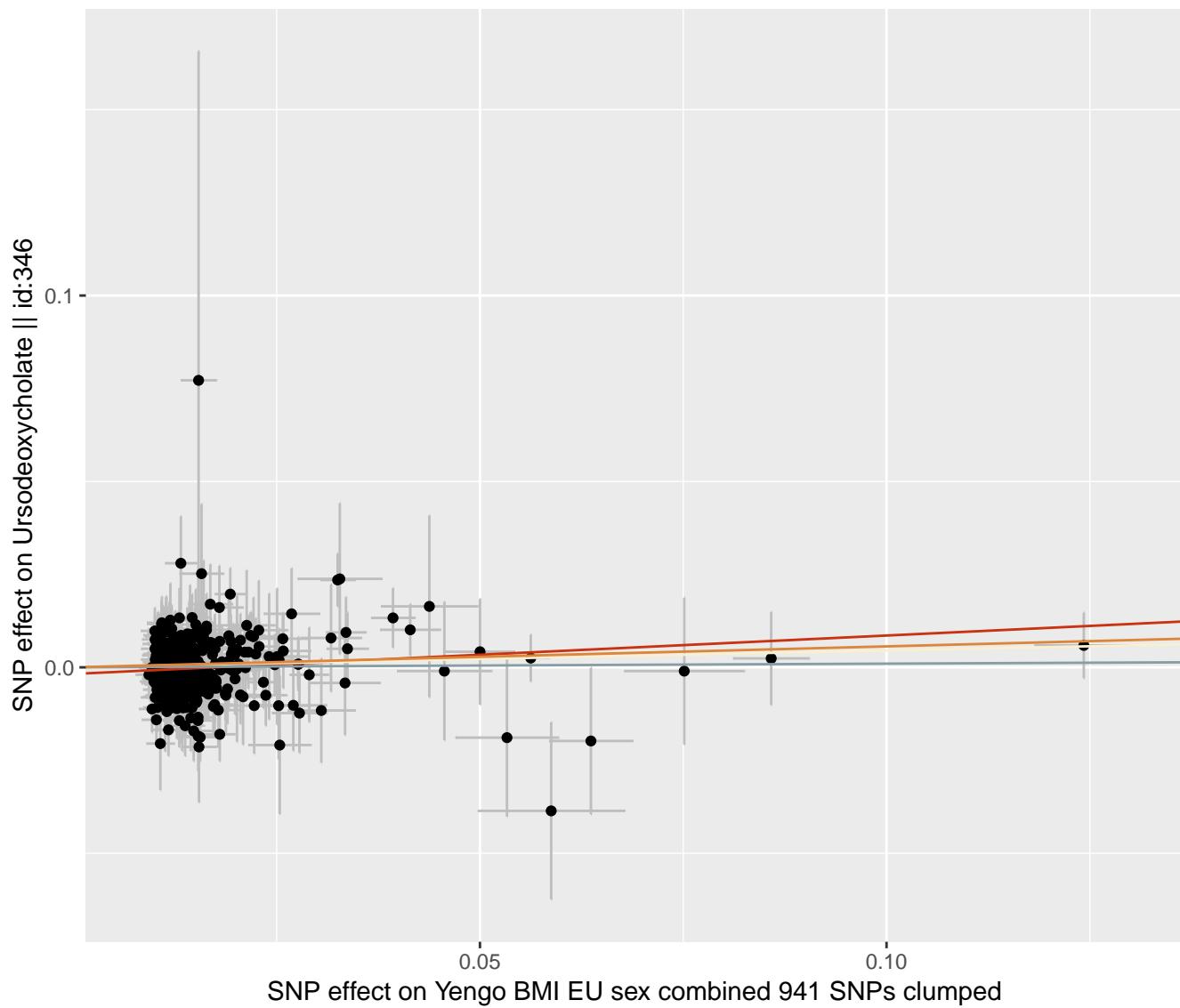
MR Egger



Weighted median

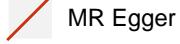


Weighted mode

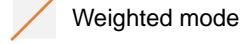


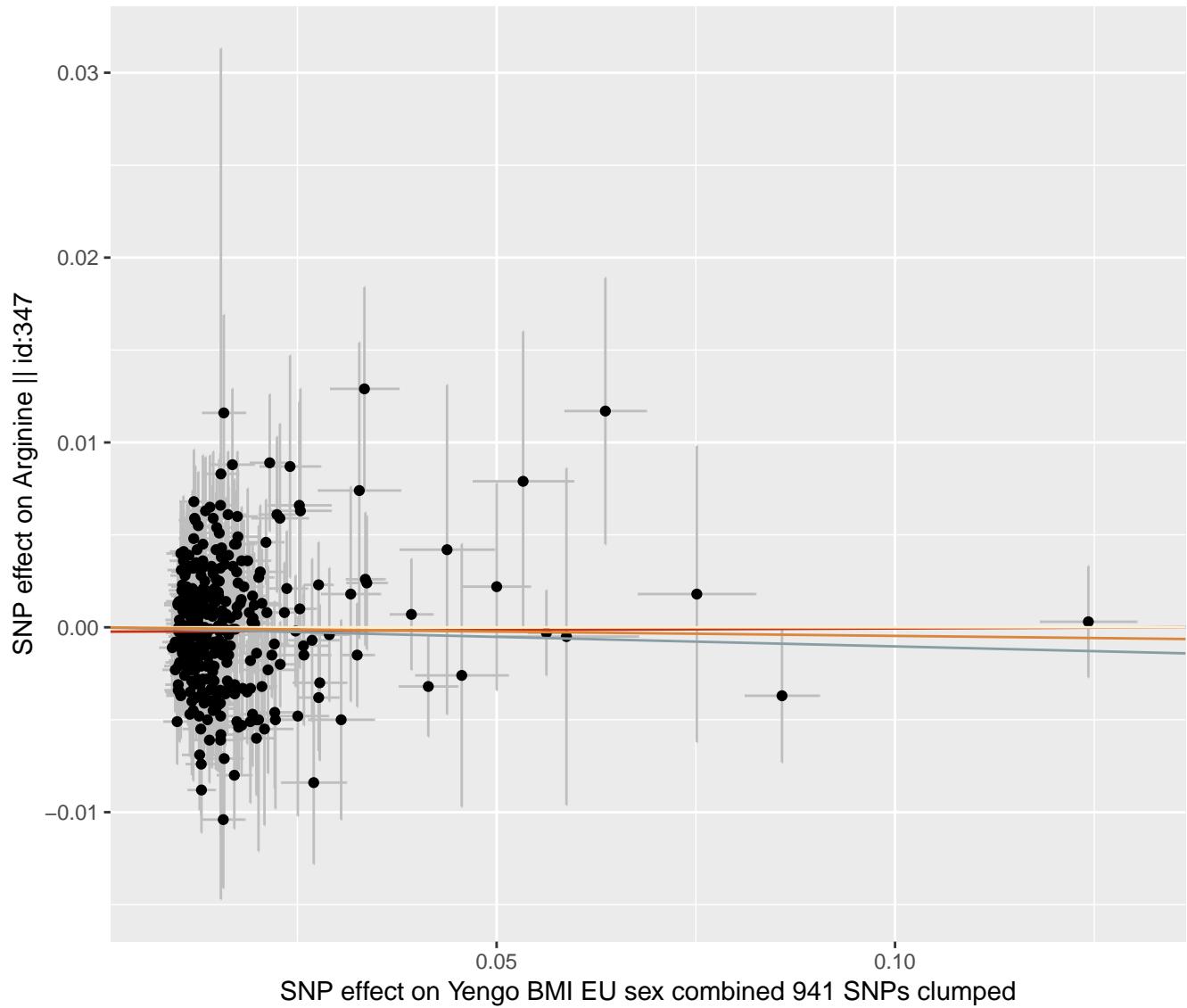
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



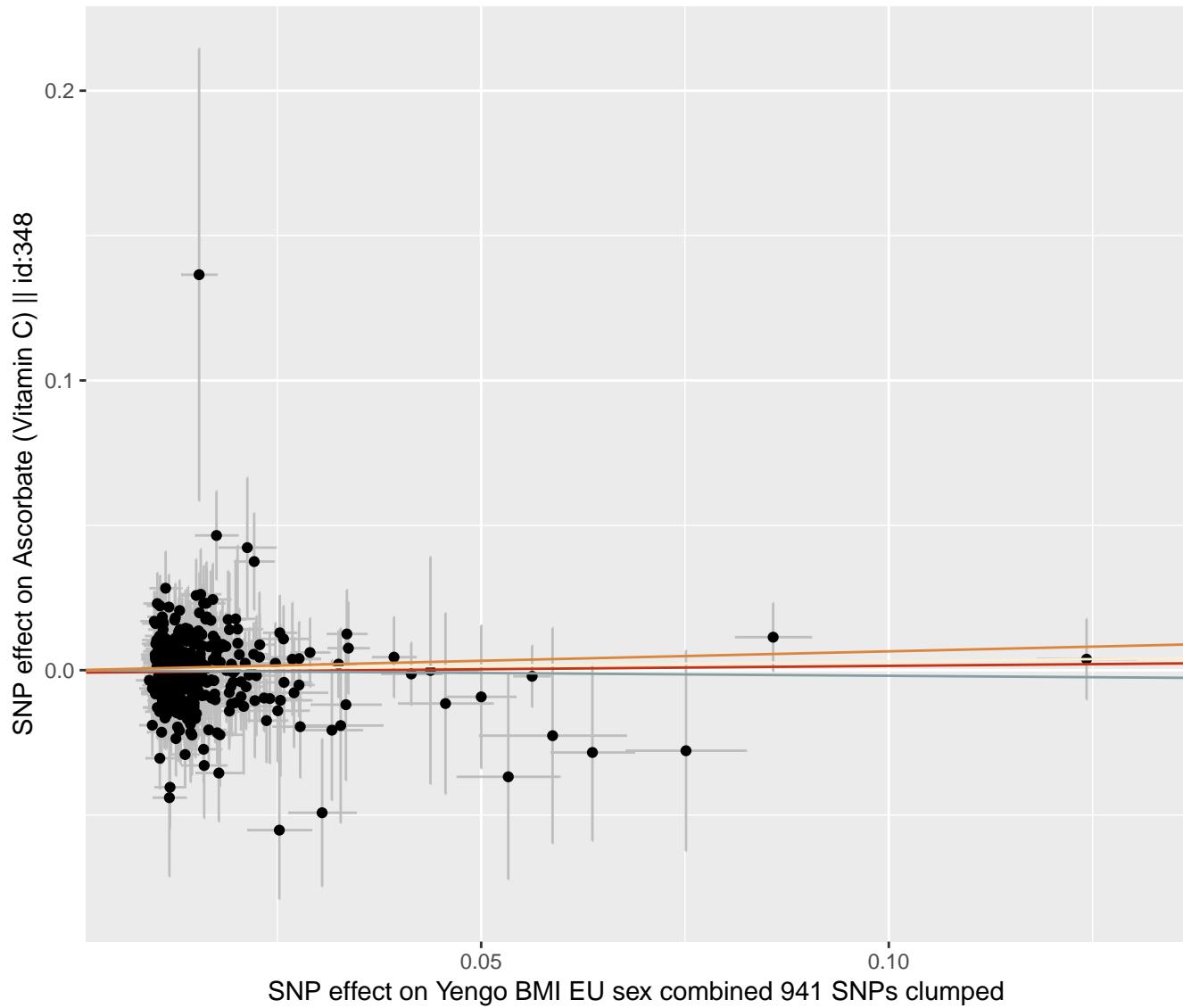
MR Egger



Weighted median



Weighted mode



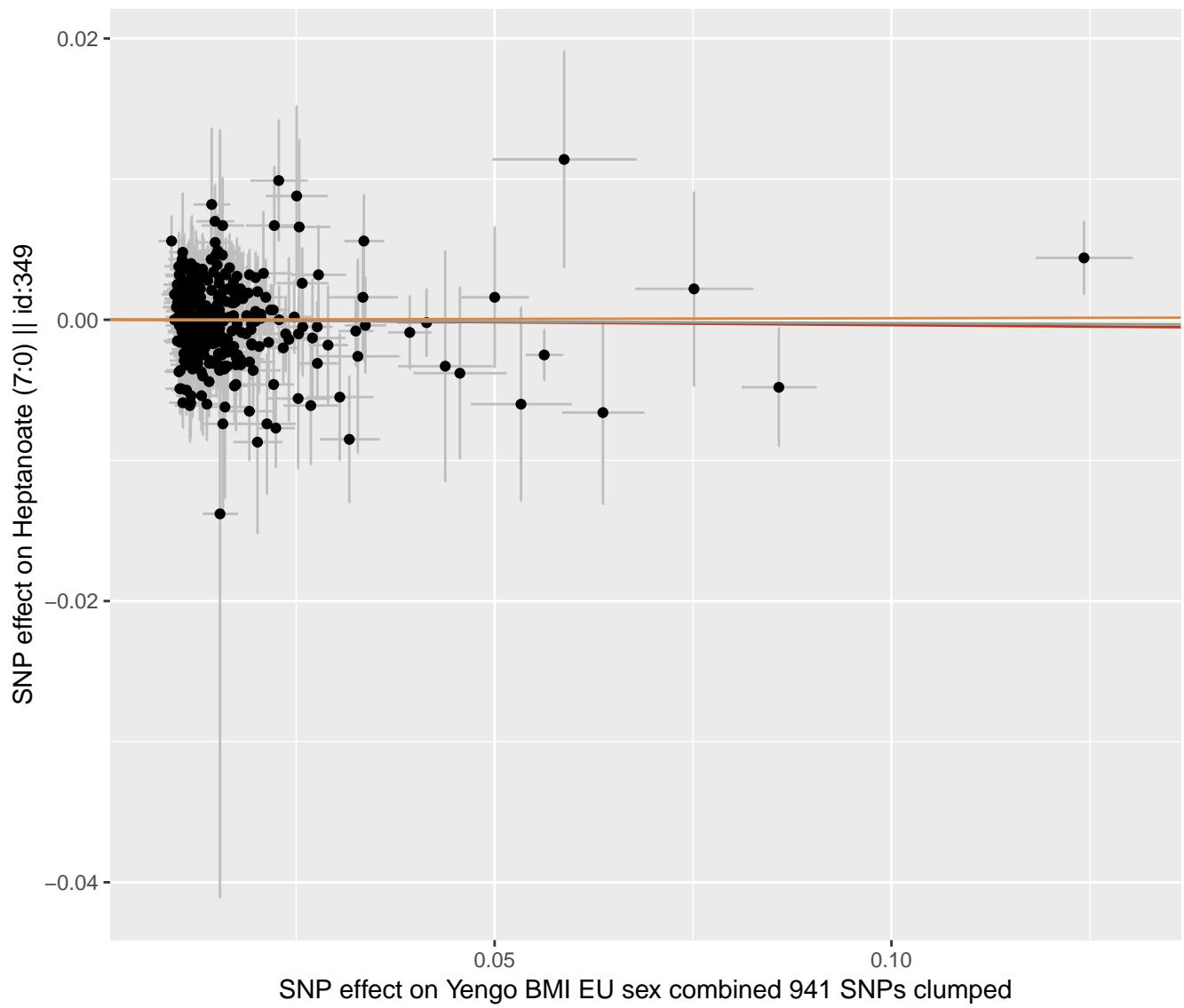
### MR Test

 Inverse variance weighted (multiplicative random effects)

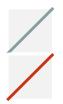
 MR Egger

 Weighted median

 Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



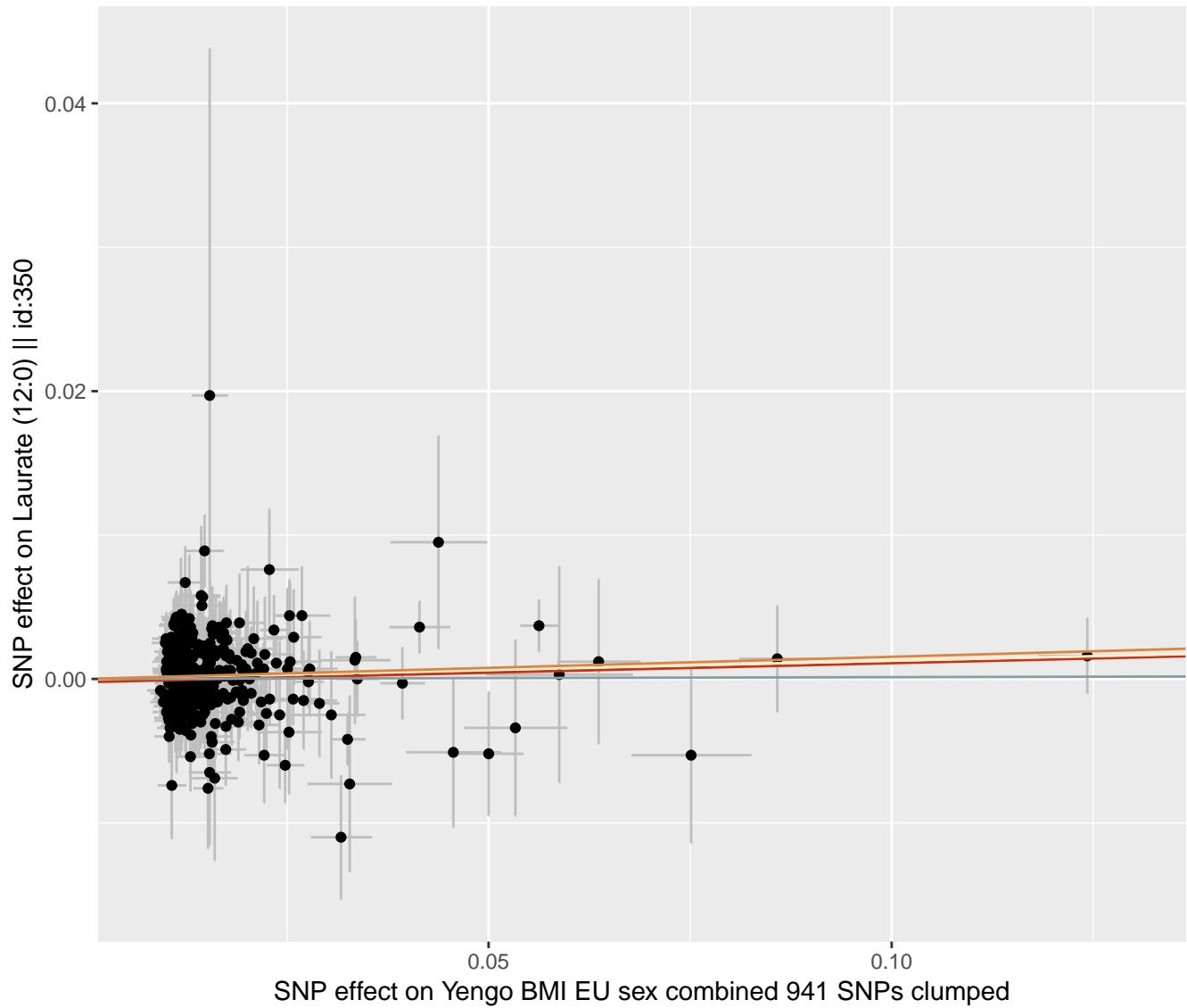
MR Egger



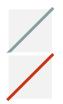
Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



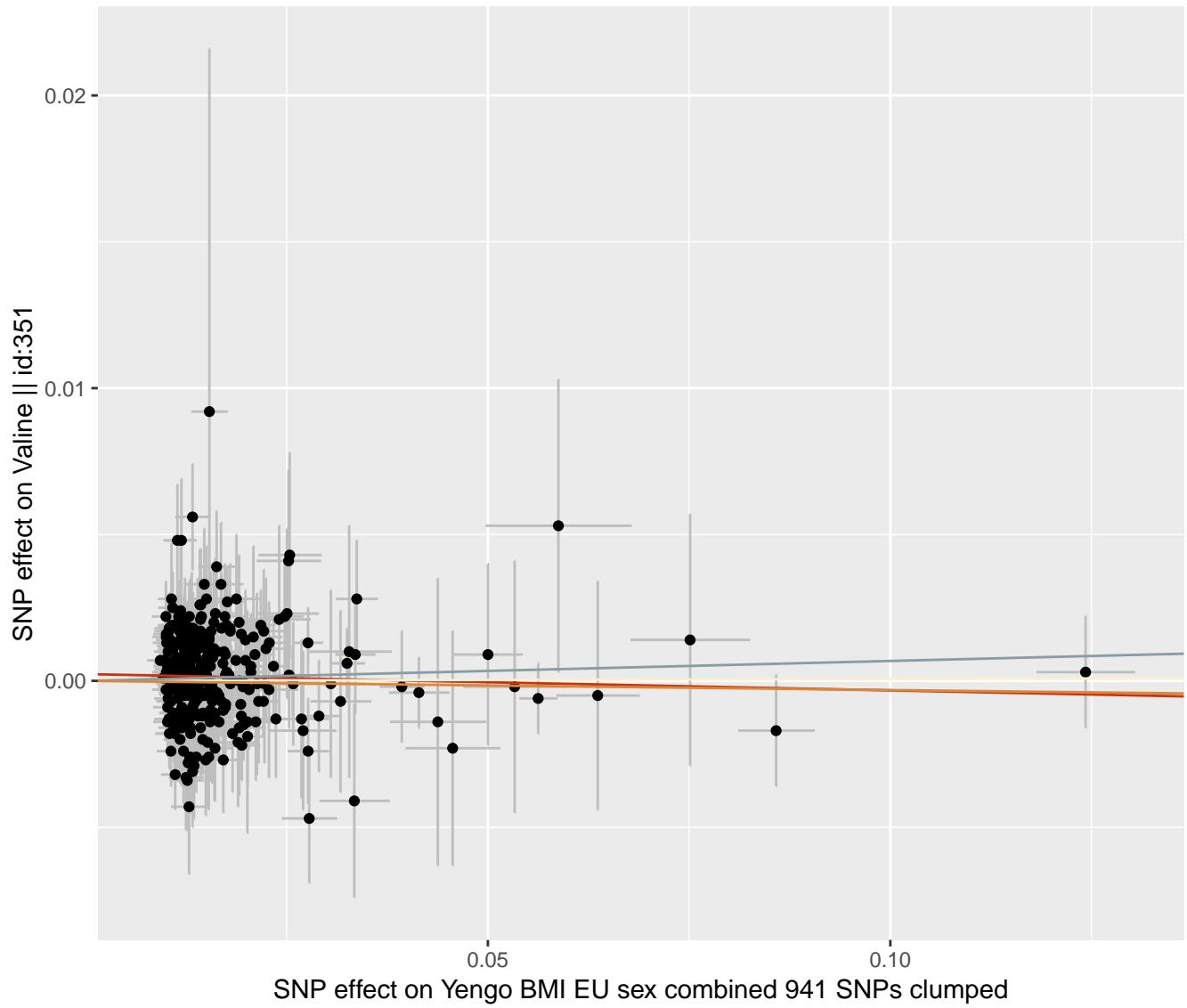
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



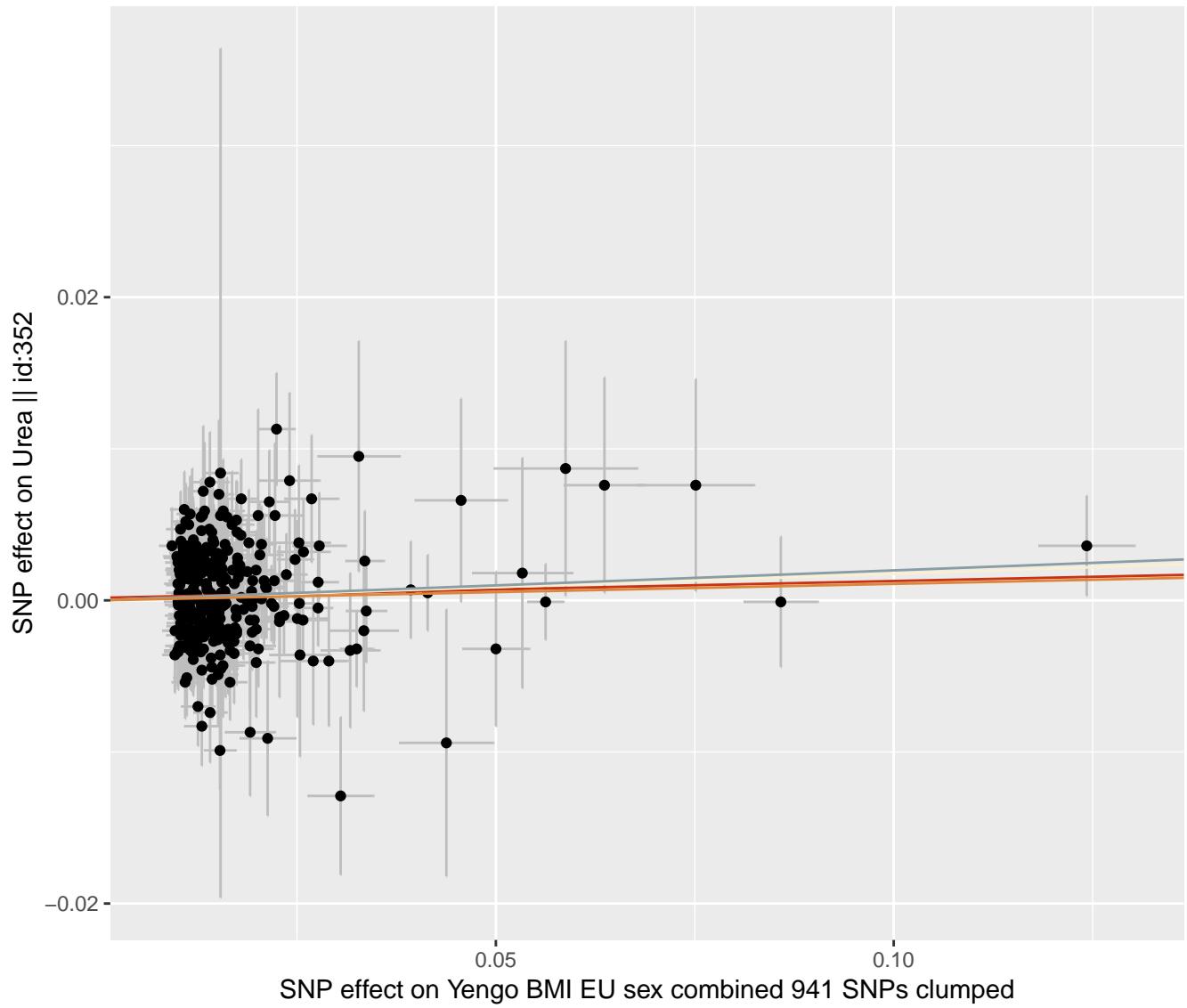
MR Egger



Weighted median



Weighted mode



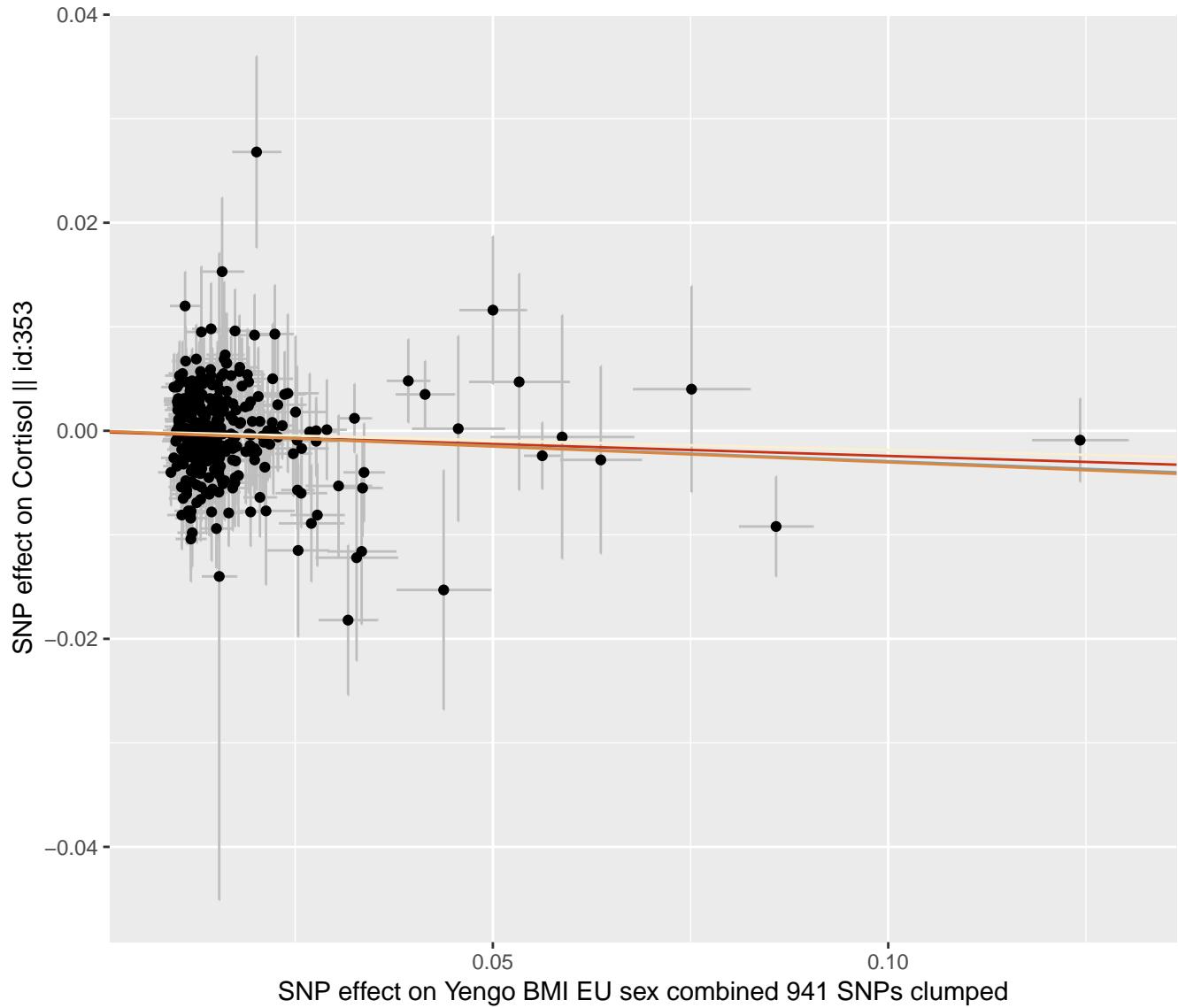
### MR Test

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MR Egger

Weighted median

Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



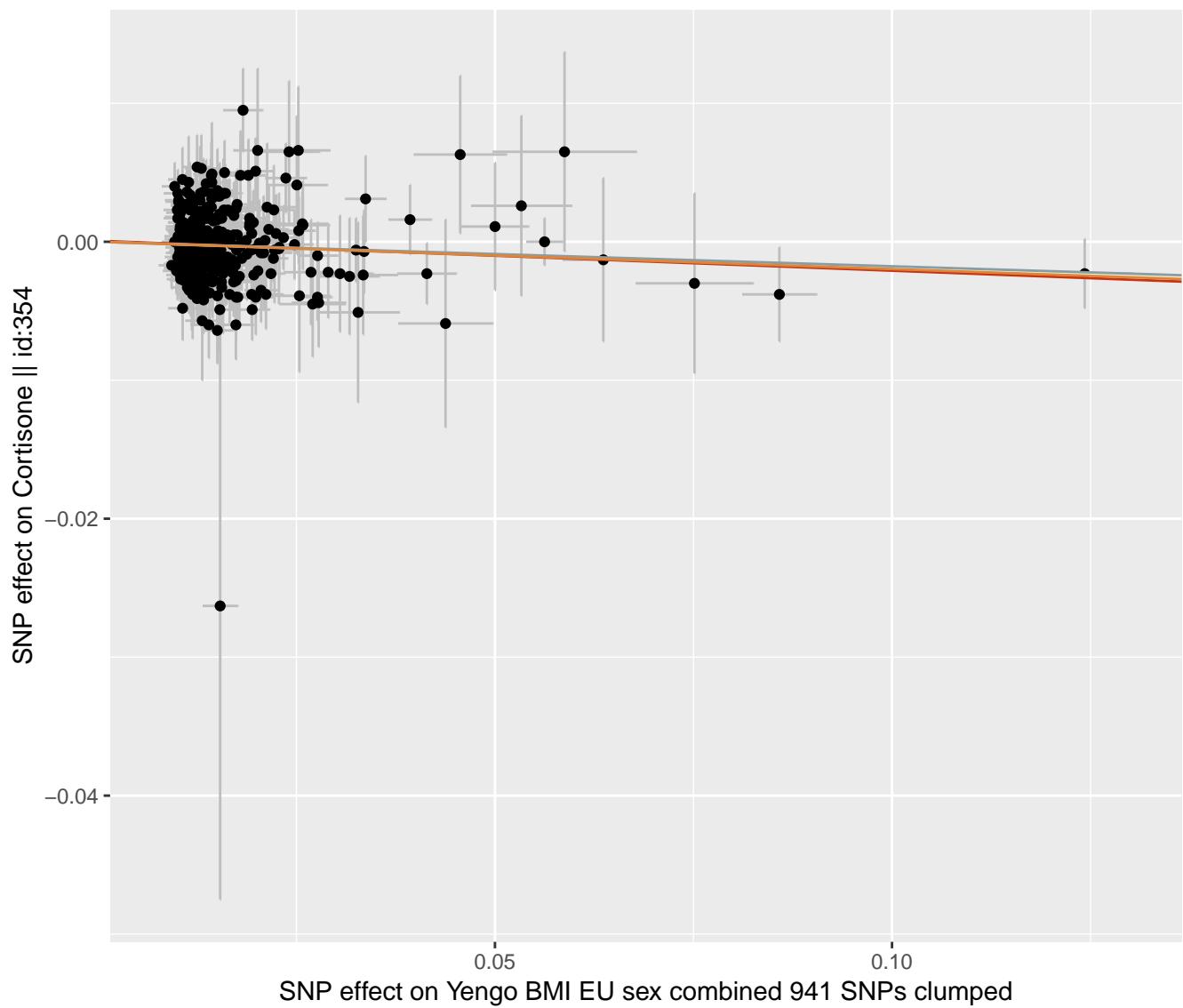
MR Egger



Weighted median



Weighted mode



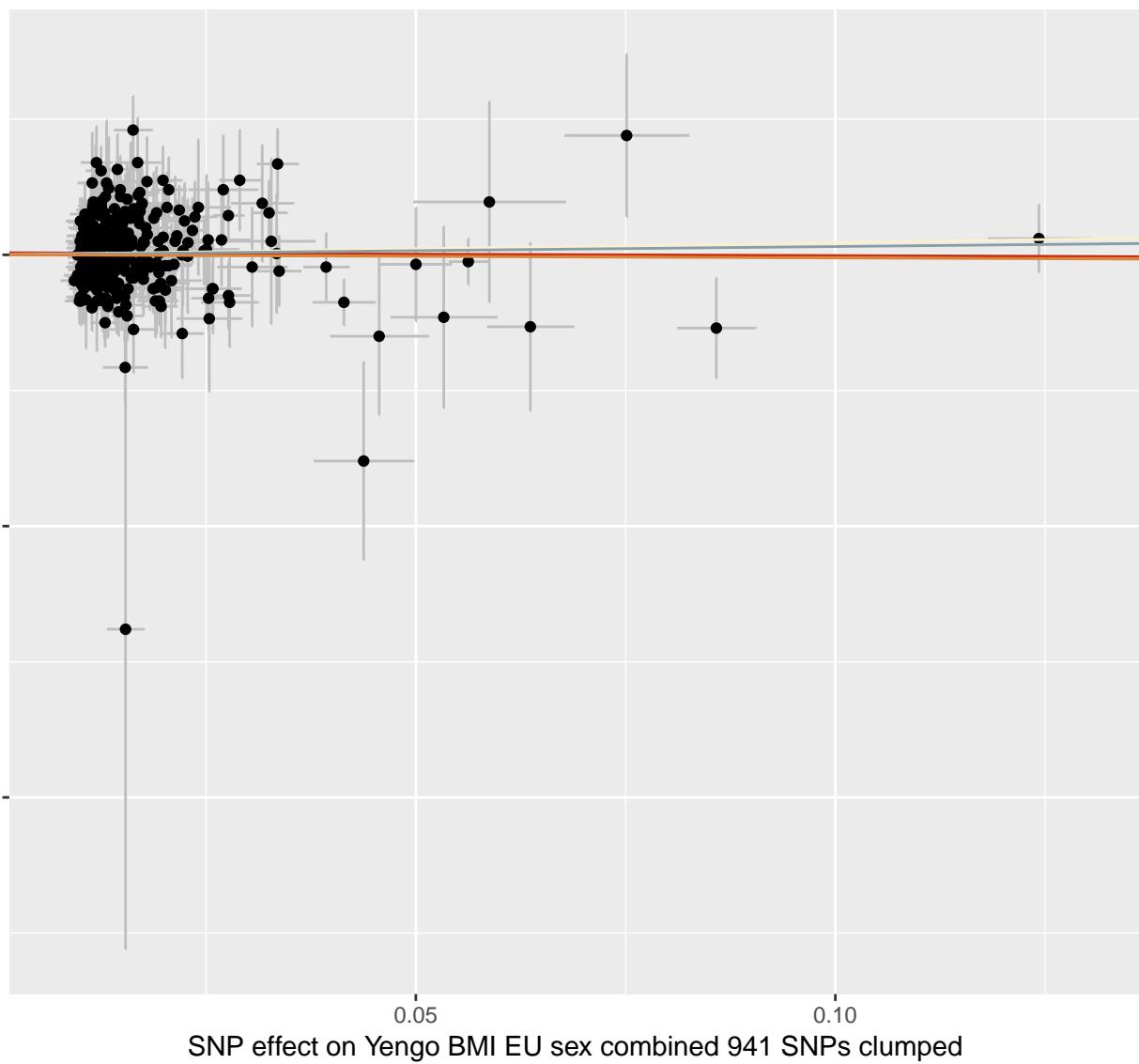
## MR Test

### Inverse variance weighted (multiplicative random effects)

MR Egger

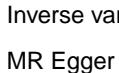
## Weighted median

### Weighted mode



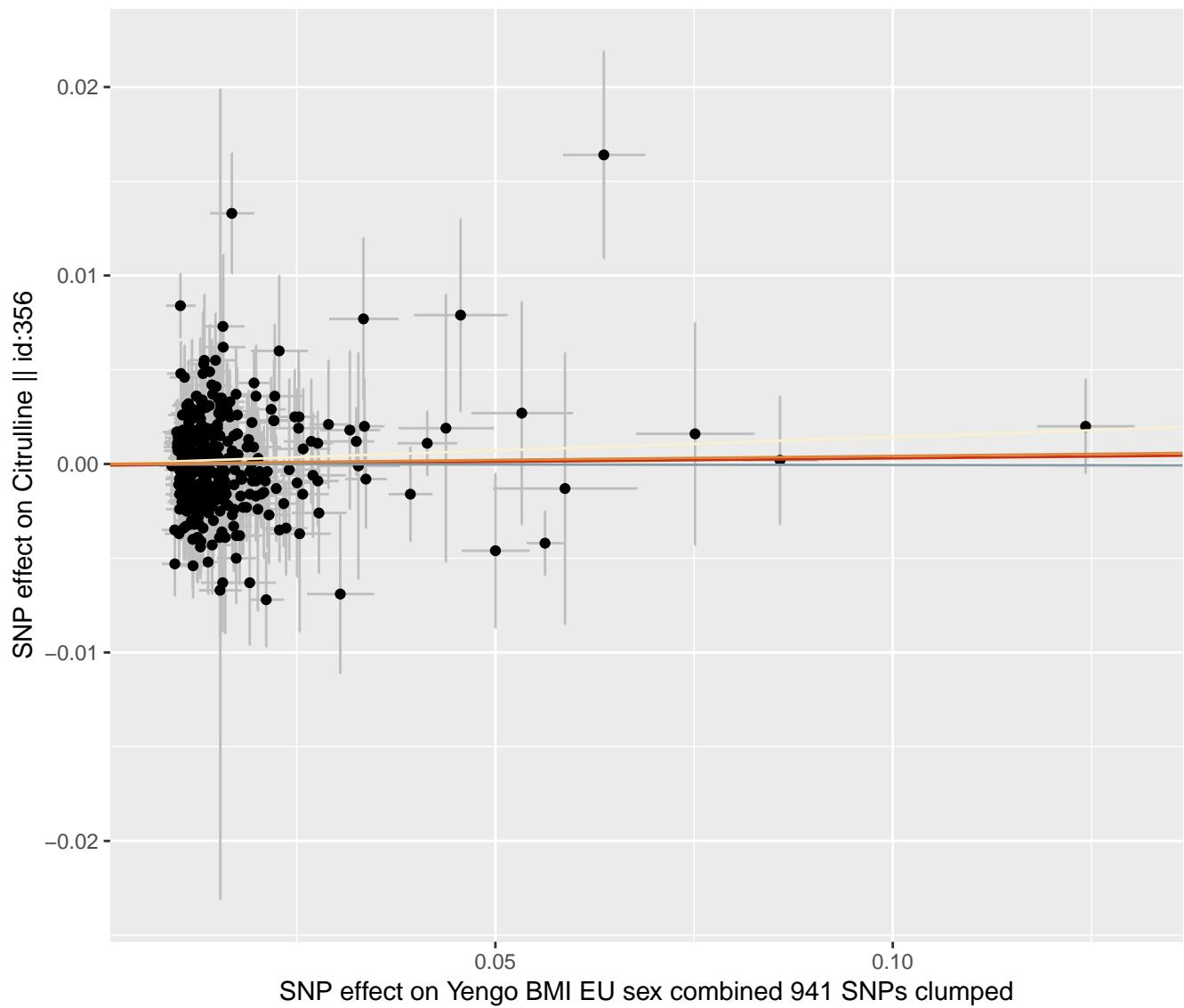
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

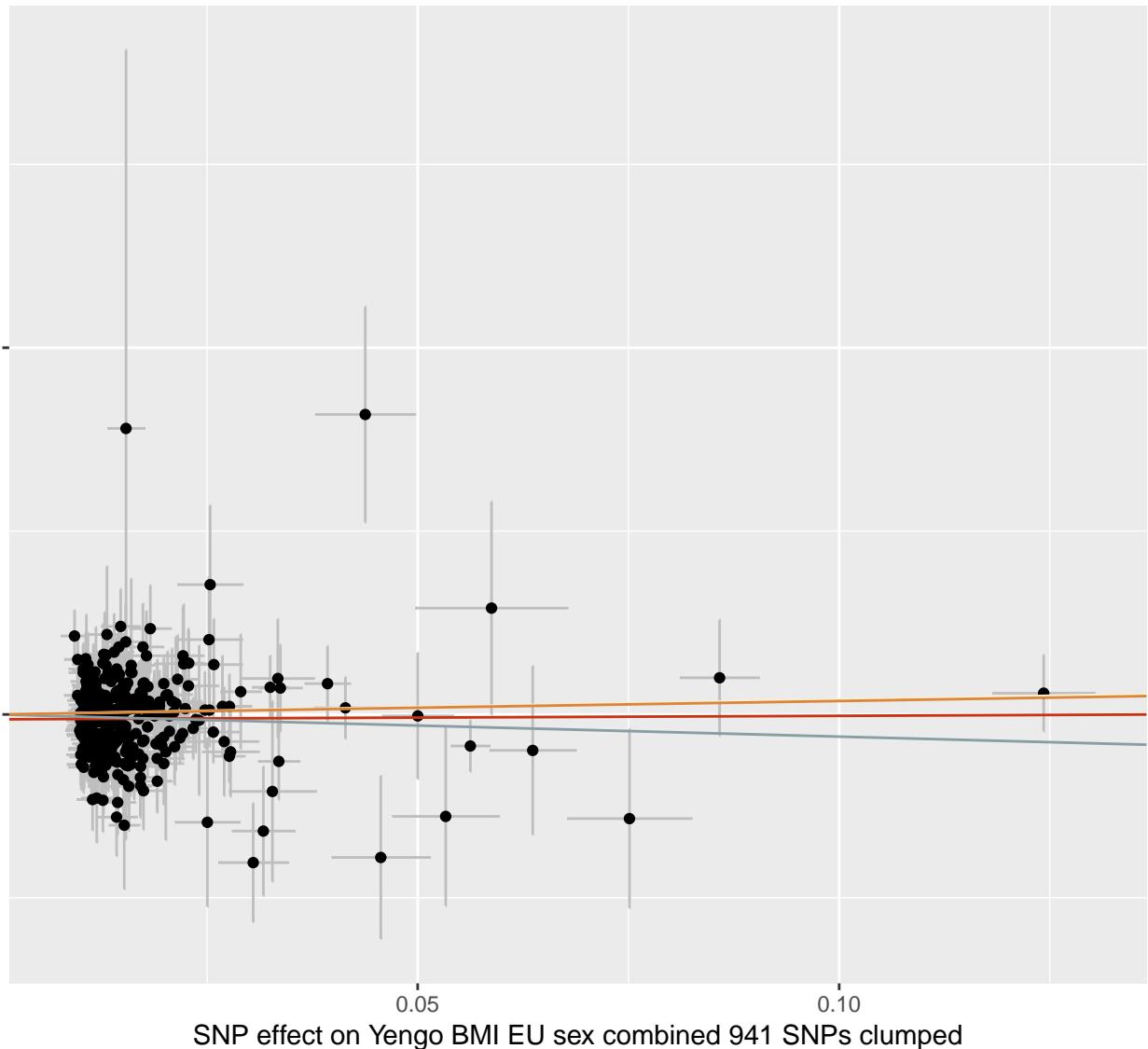


Weighted median



Weighted mode

SNP effect on Biliverdin || id:357



## MR Test



Inverse variance weighted (multiplicative random effects)



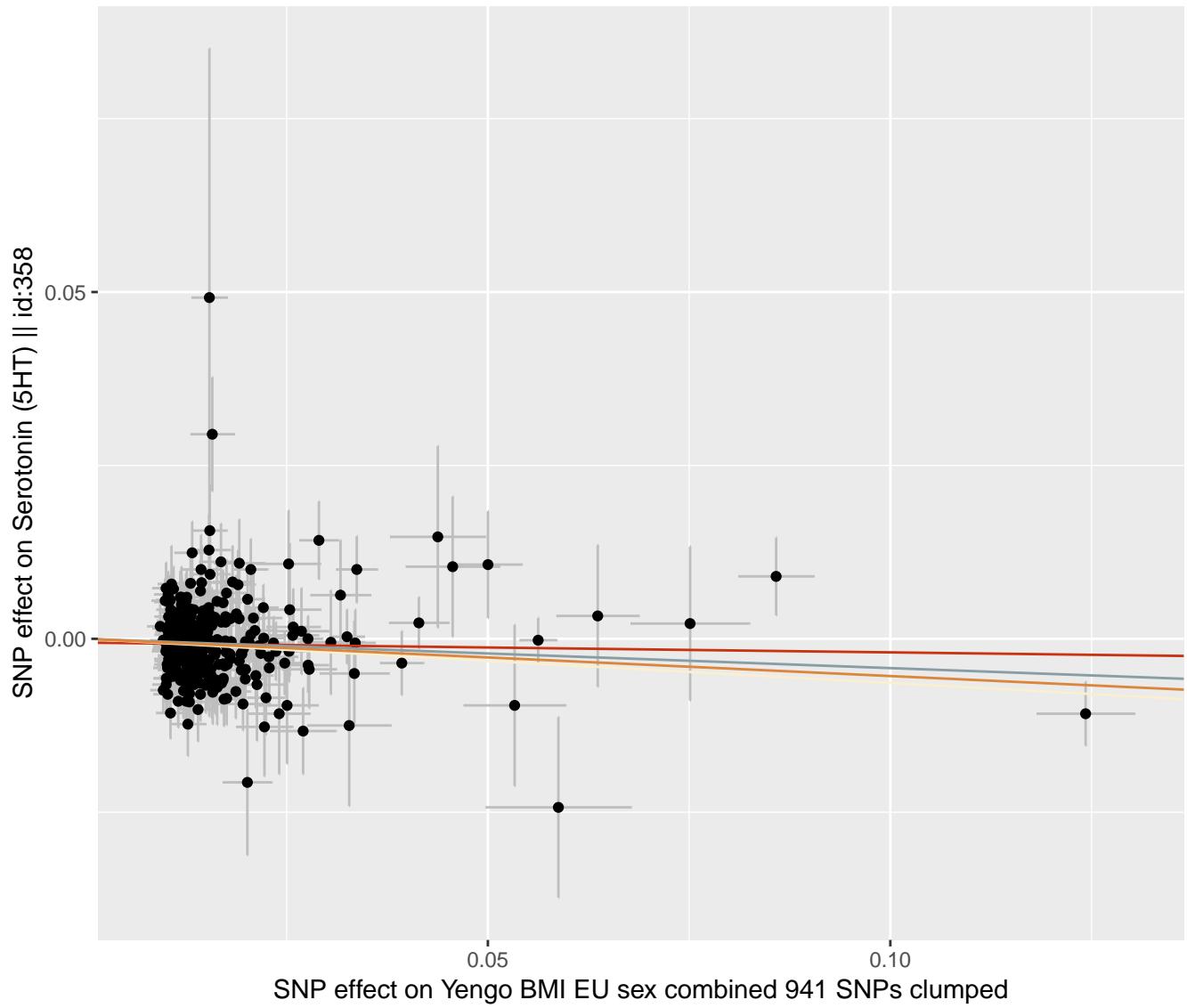
MR Egger



Weighted median



Weighted mode



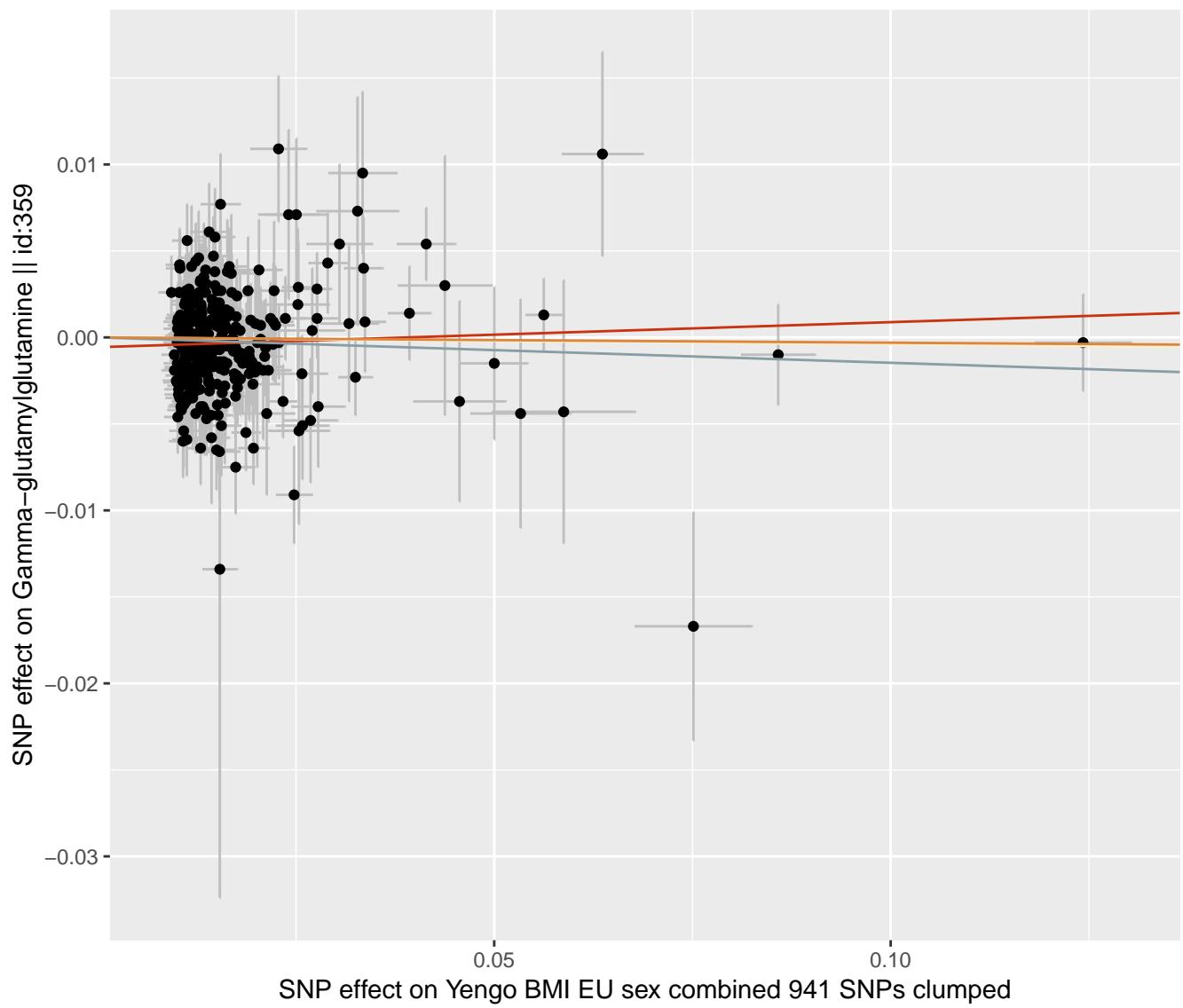
### MR Test

Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



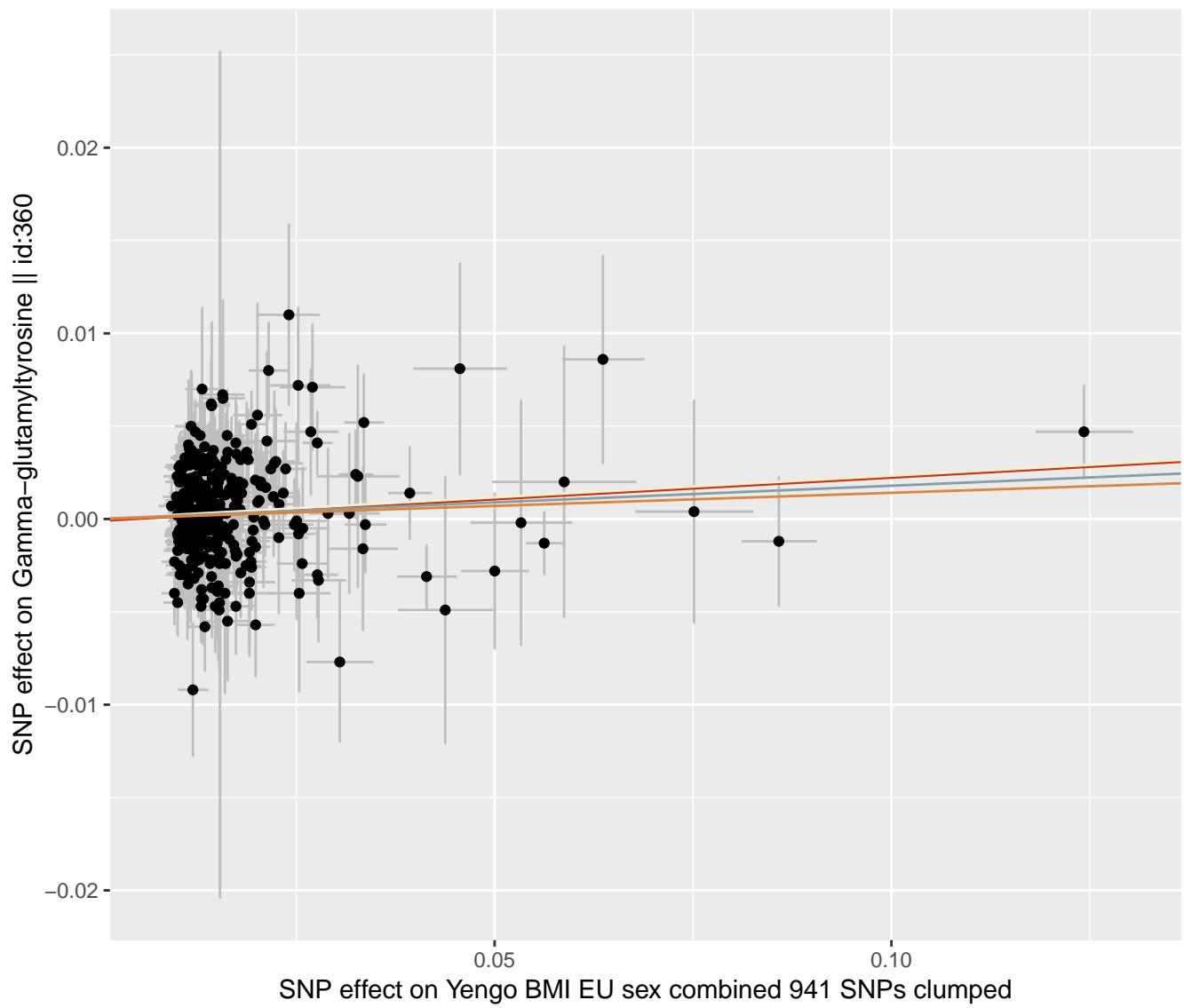
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

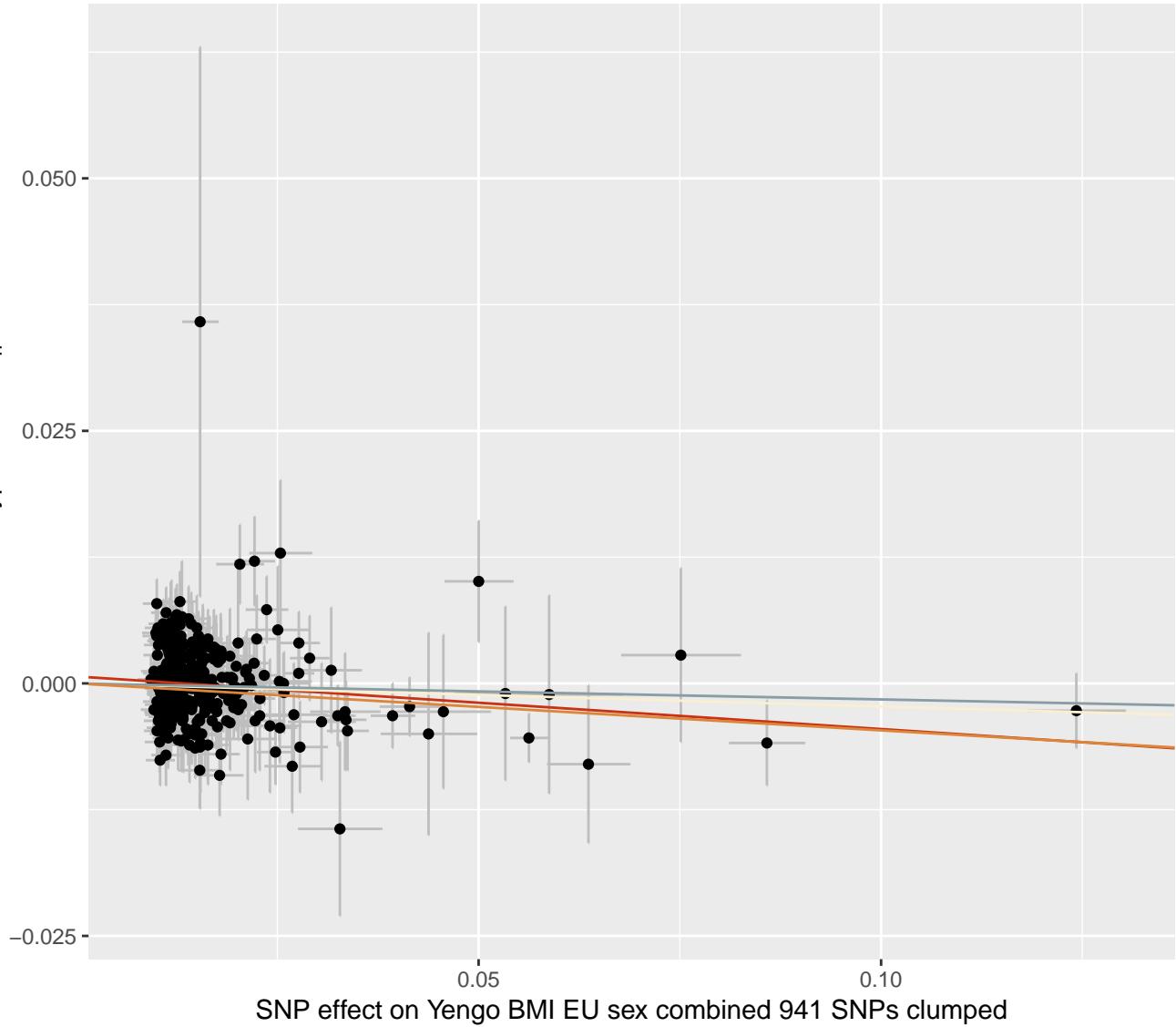


Weighted median



Weighted mode

SNP effect on Hypoxanthine || id:361



### MR Test



Inverse variance weighted (multiplicative random effects)



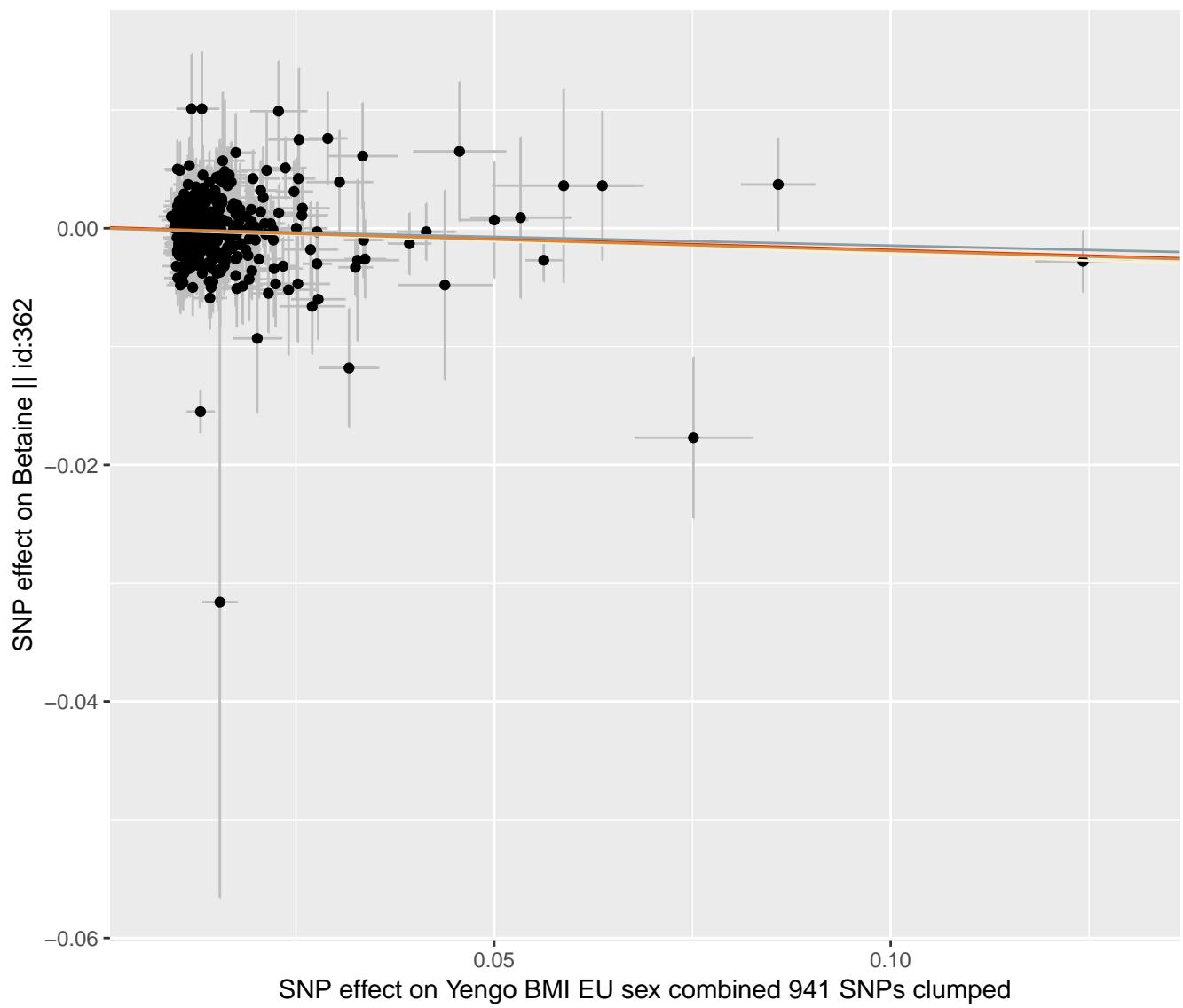
MR Egger



Weighted median

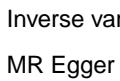


Weighted mode



### MR Test

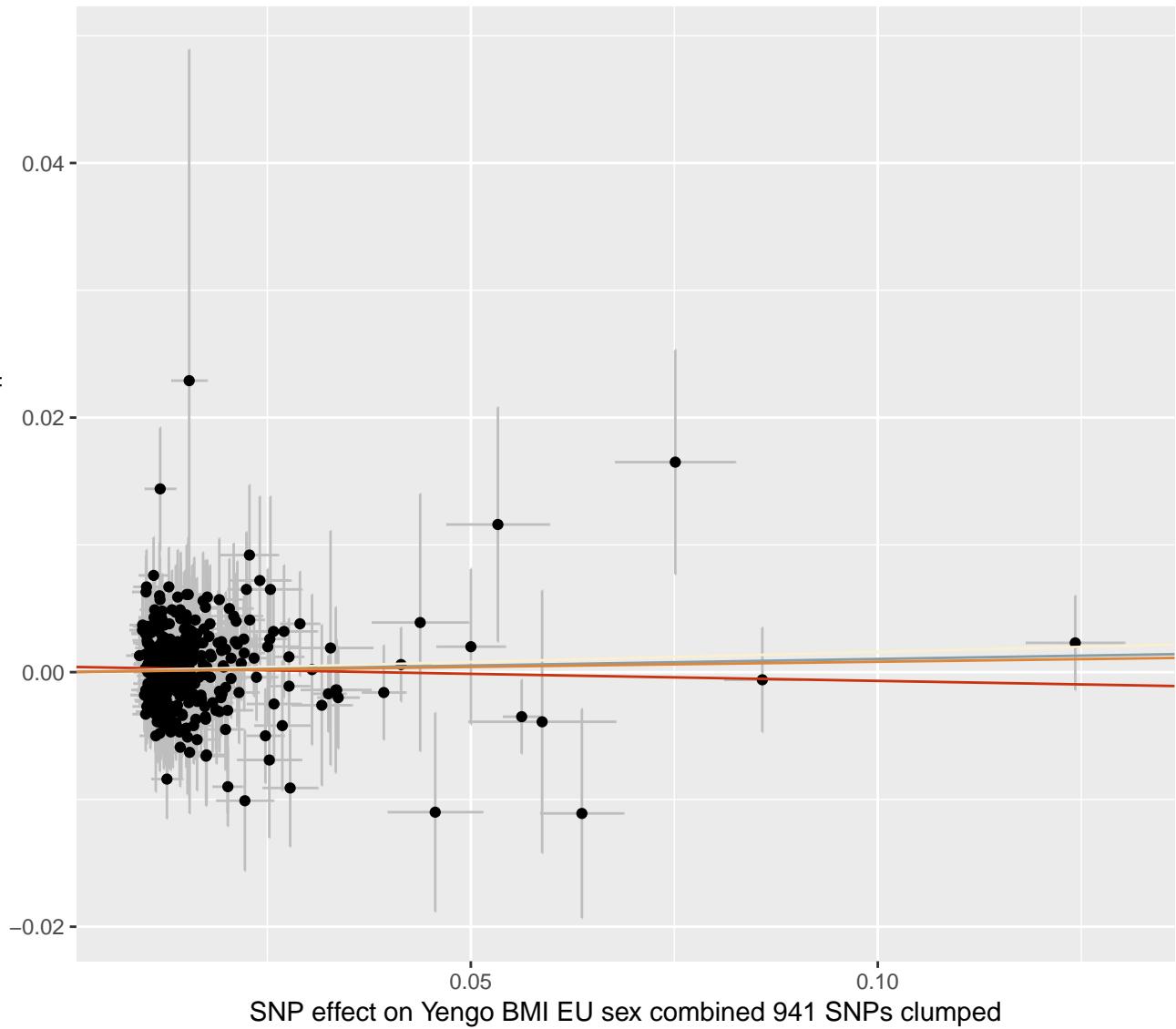
 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode

SNP effect on Xanthine || id:363



### MR Test



Inverse variance weighted (multiplicative random effects)



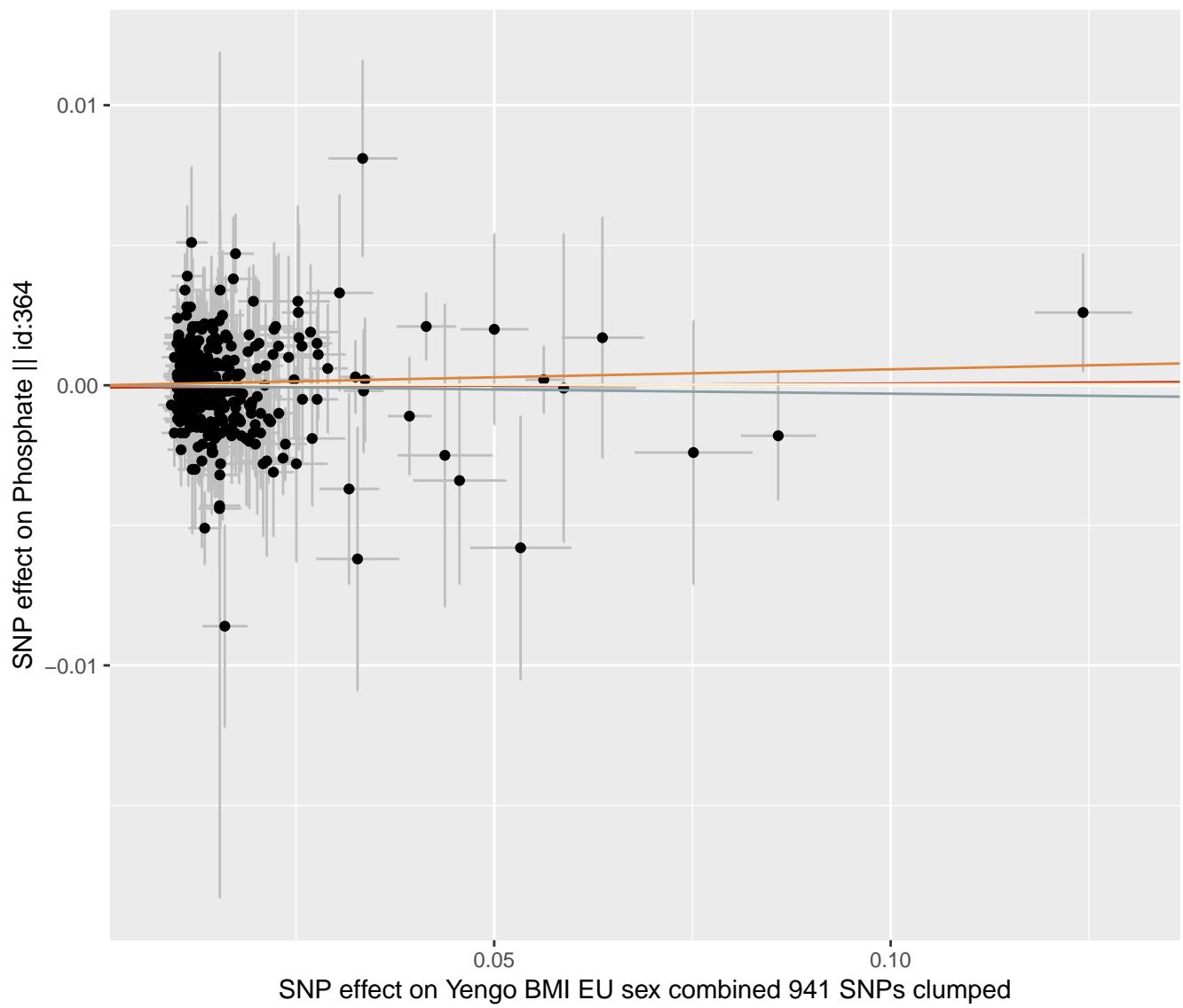
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



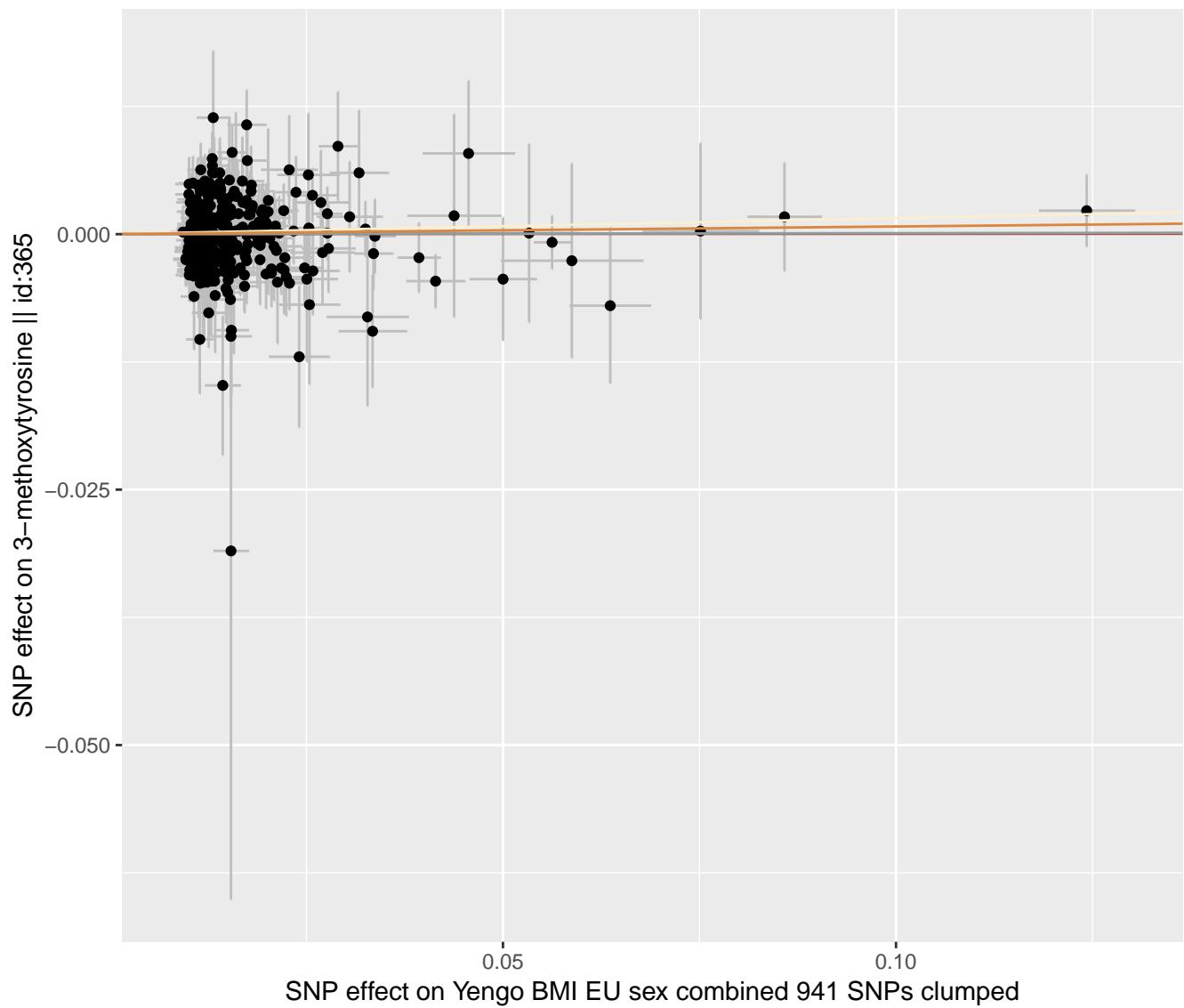
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



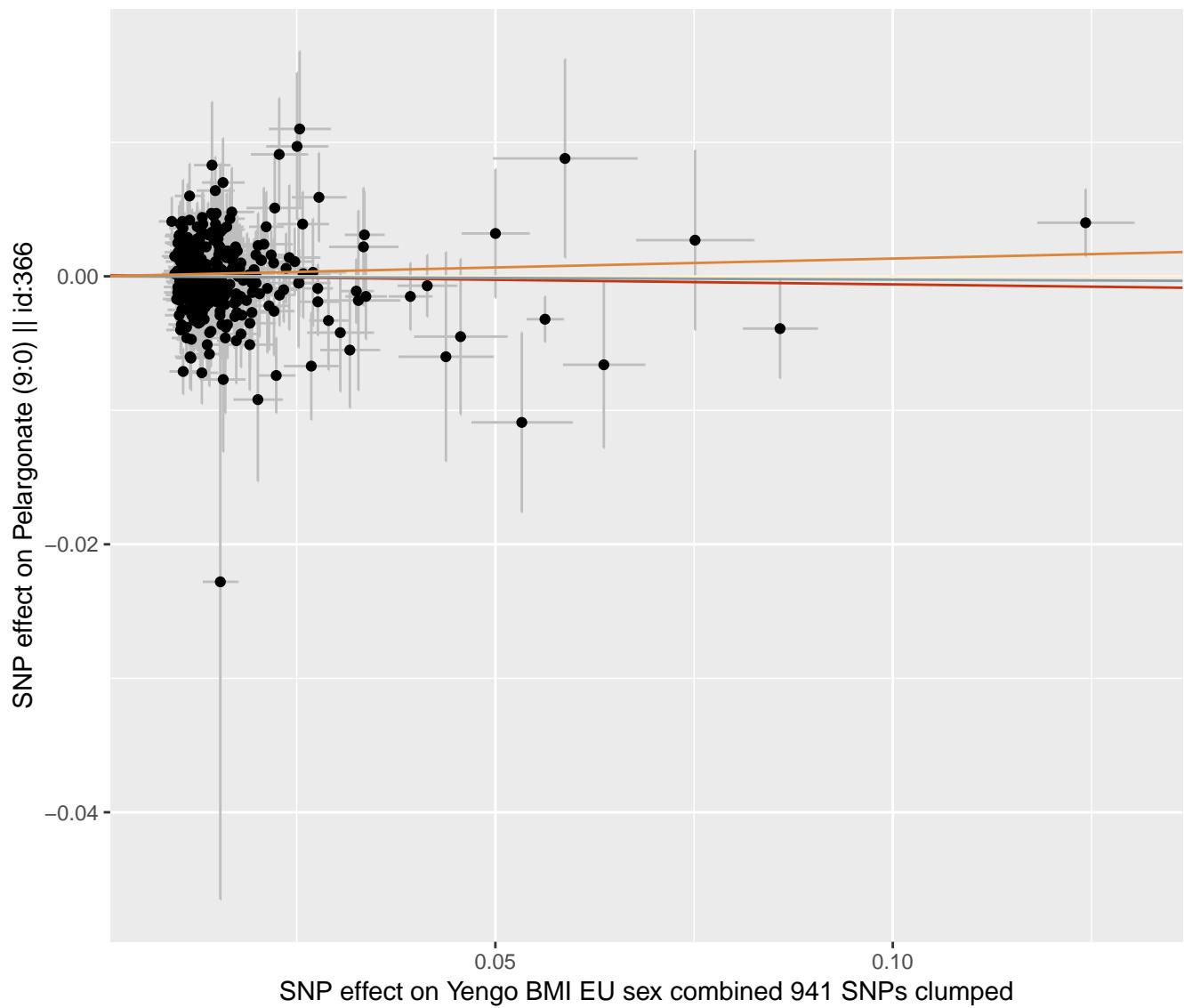
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



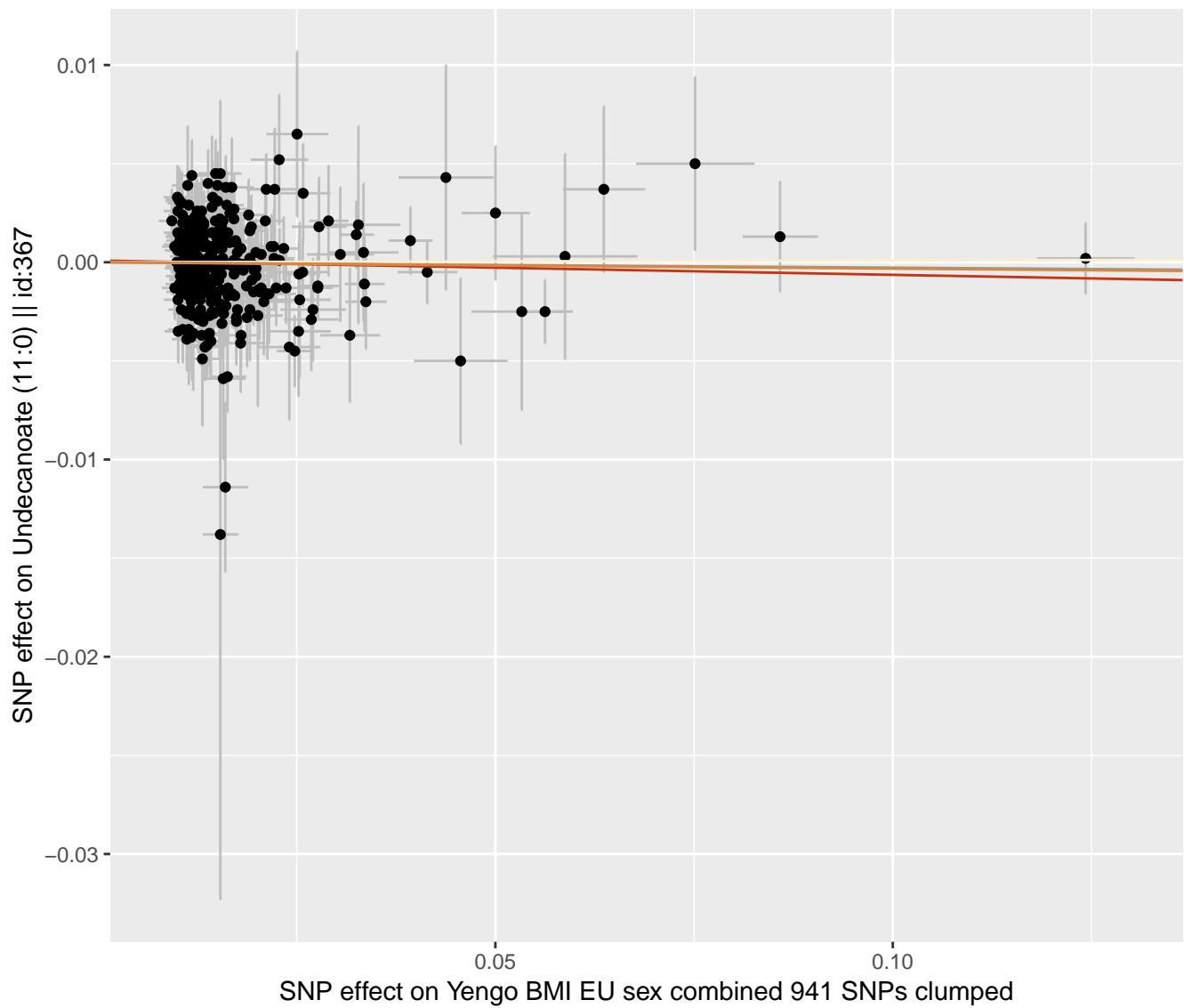
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



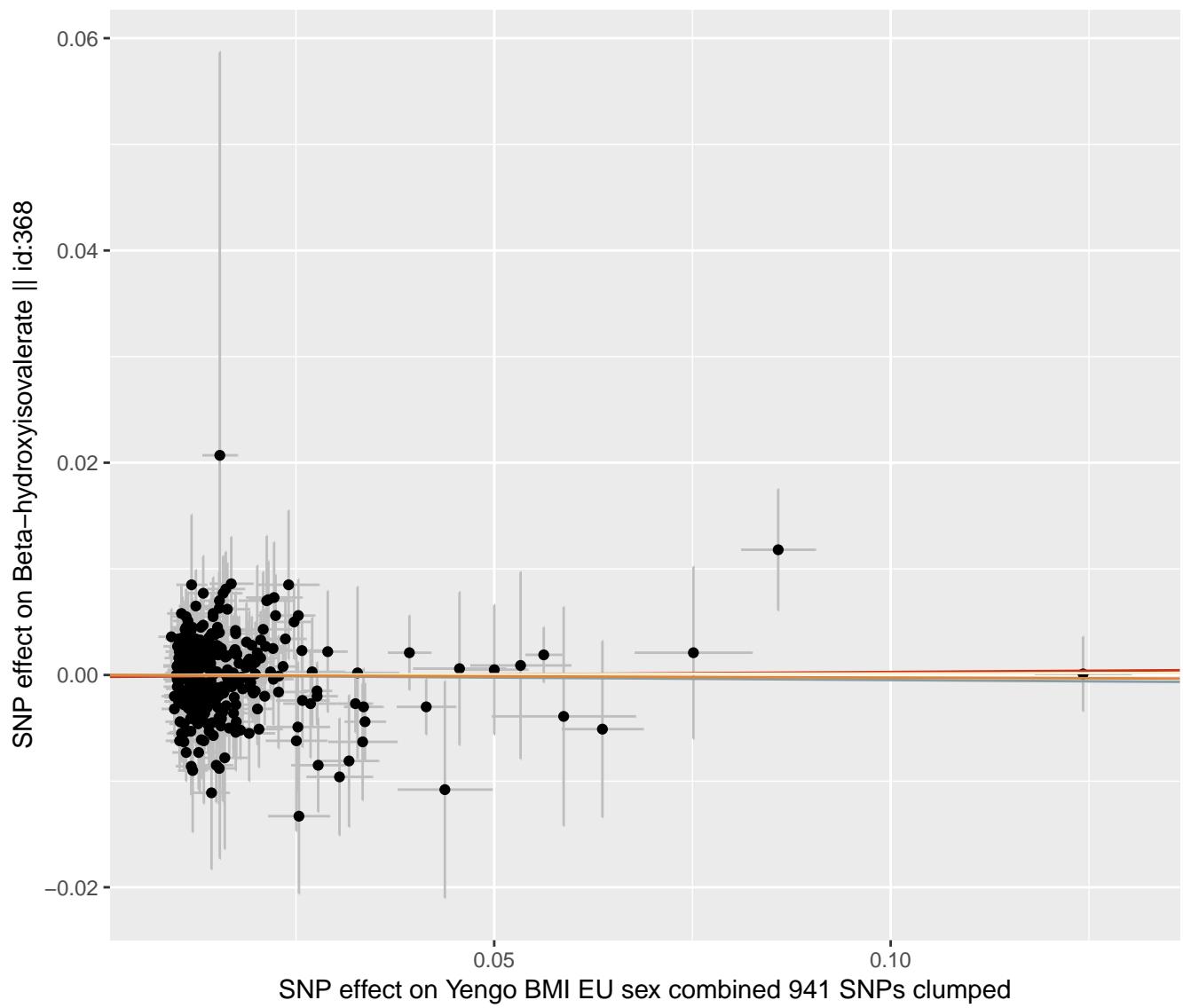
MR Egger



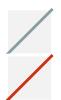
Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

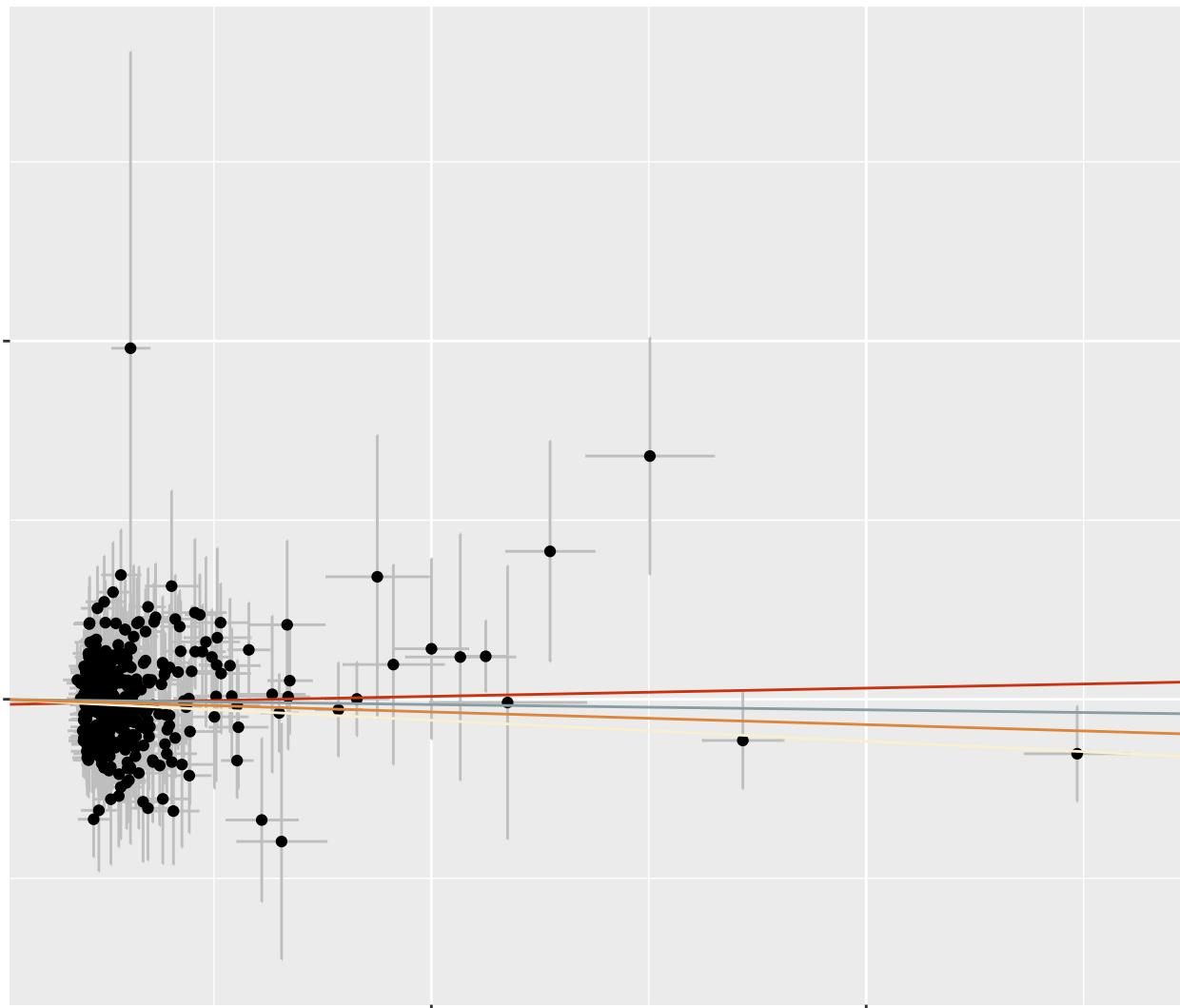


Weighted median



Weighted mode

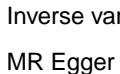
SNP effect on Taurodeoxycholate || id:369



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test

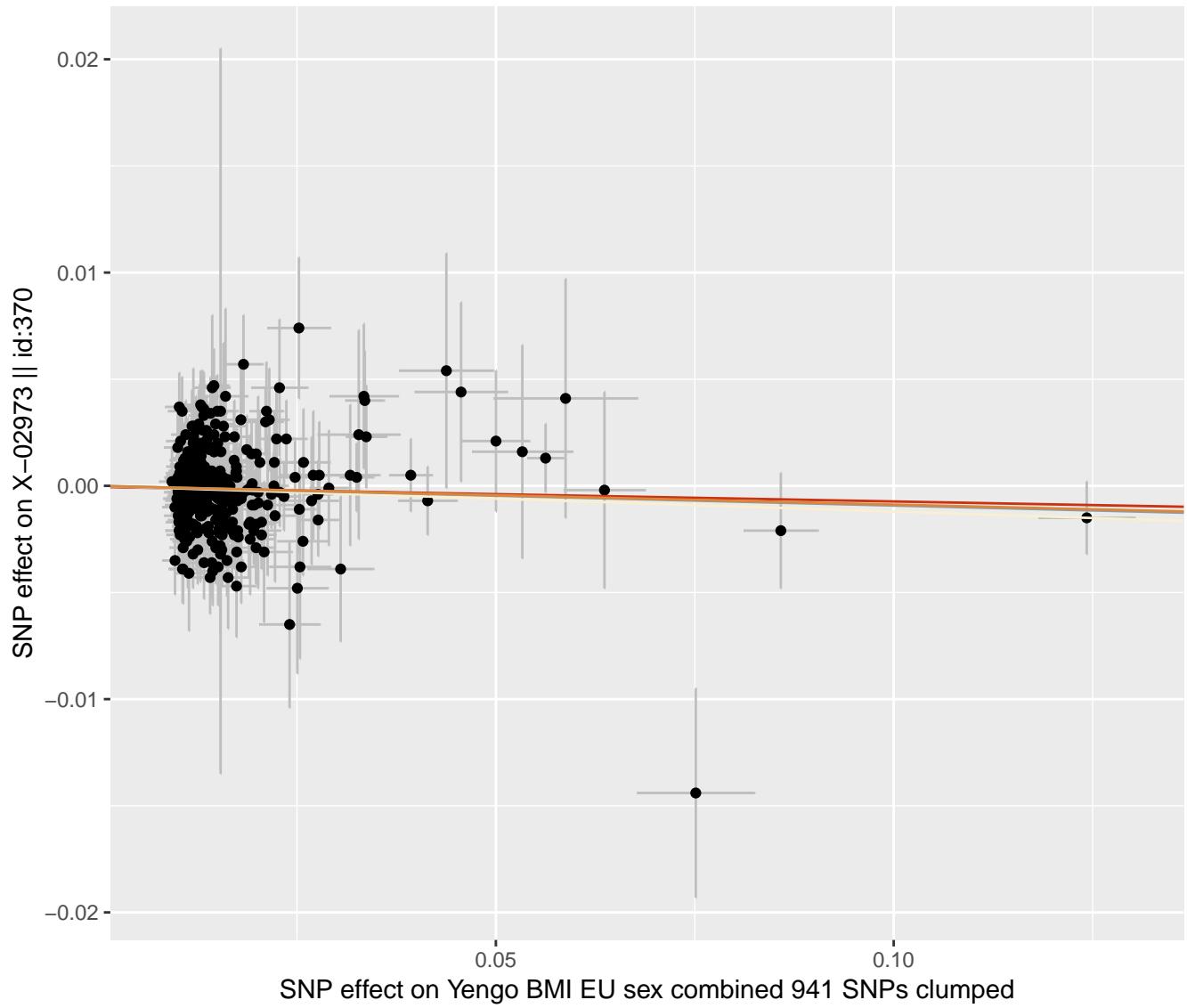
 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode

SNP effect on X-02973 || id:370



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

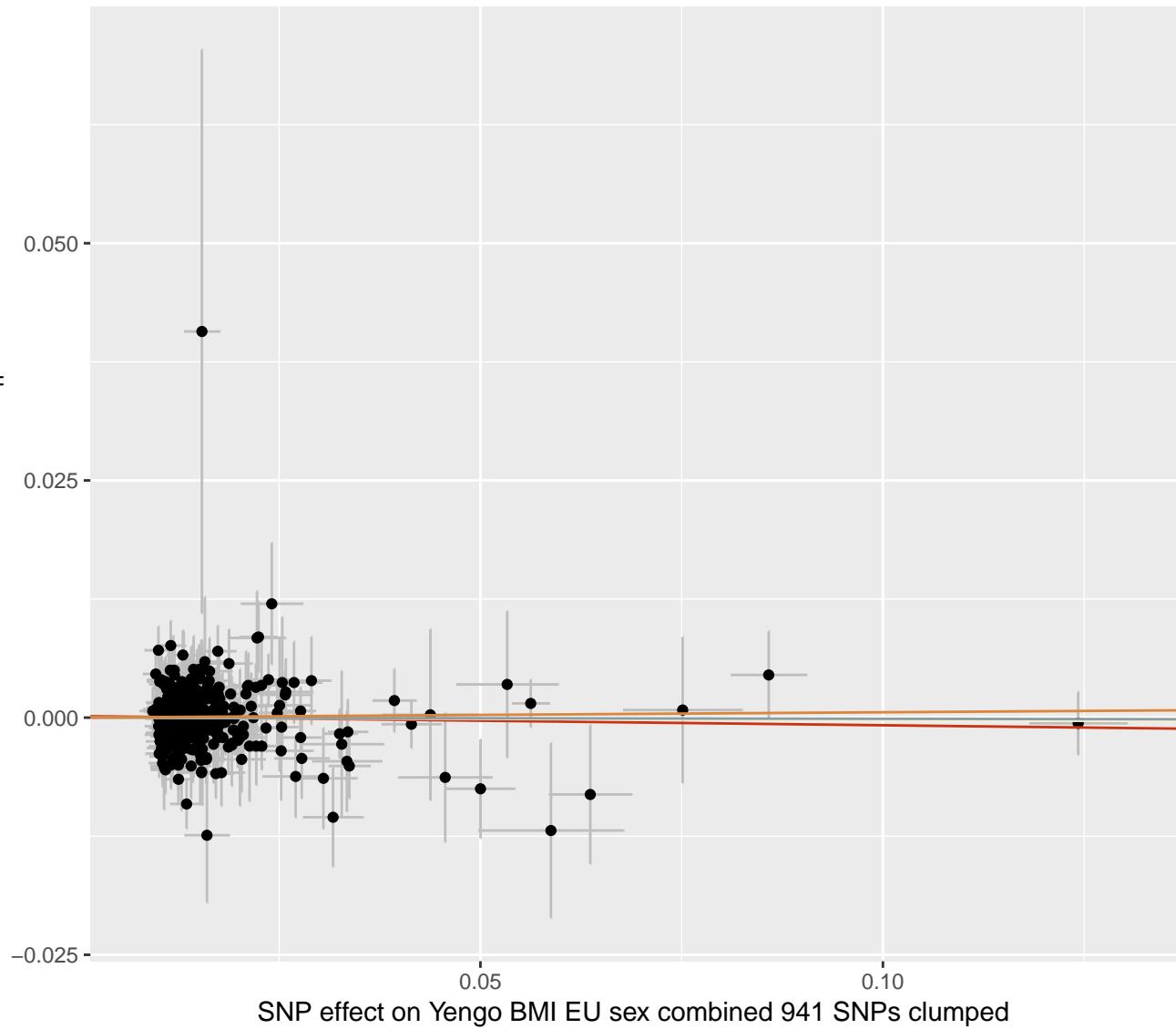


Weighted median



Weighted mode

SNP effect on X-03003 || id:371



### MR Test



Inverse variance weighted (multiplicative random effects)



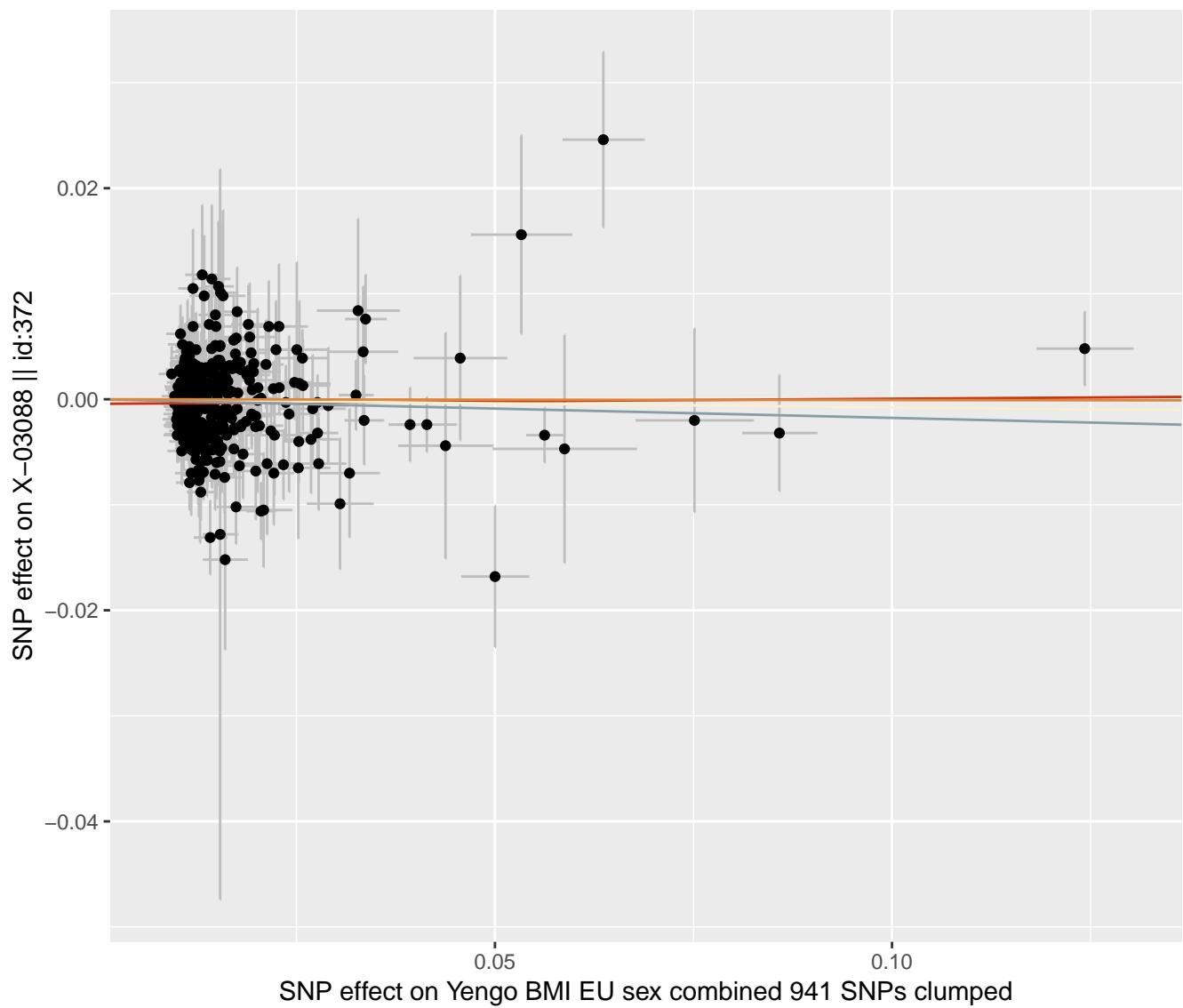
MR Egger



Weighted median



Weighted mode



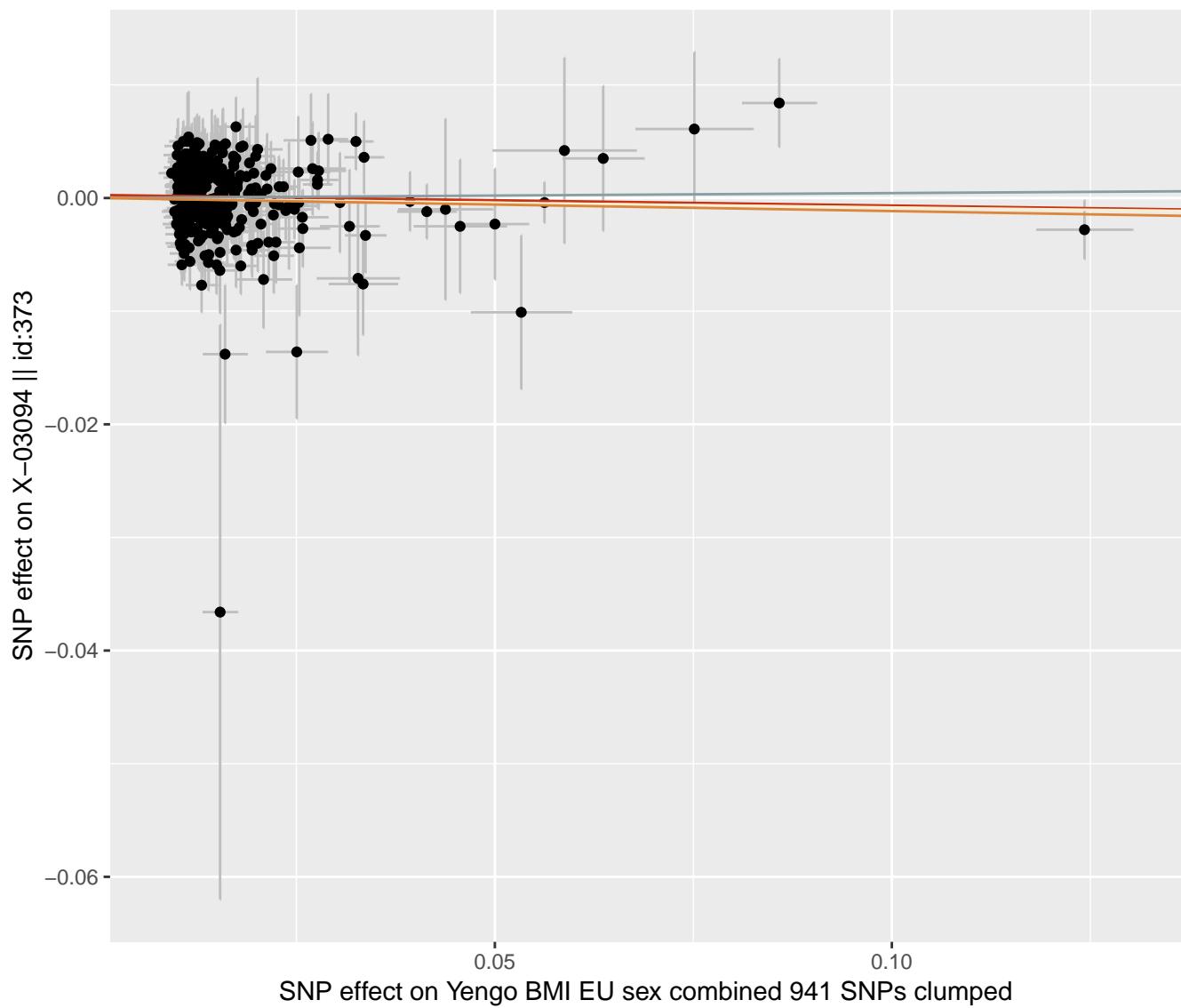
## MR Test

### Inverse variance weighted (multiplicative random effects)

MR Egger

## Weighted median

### Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



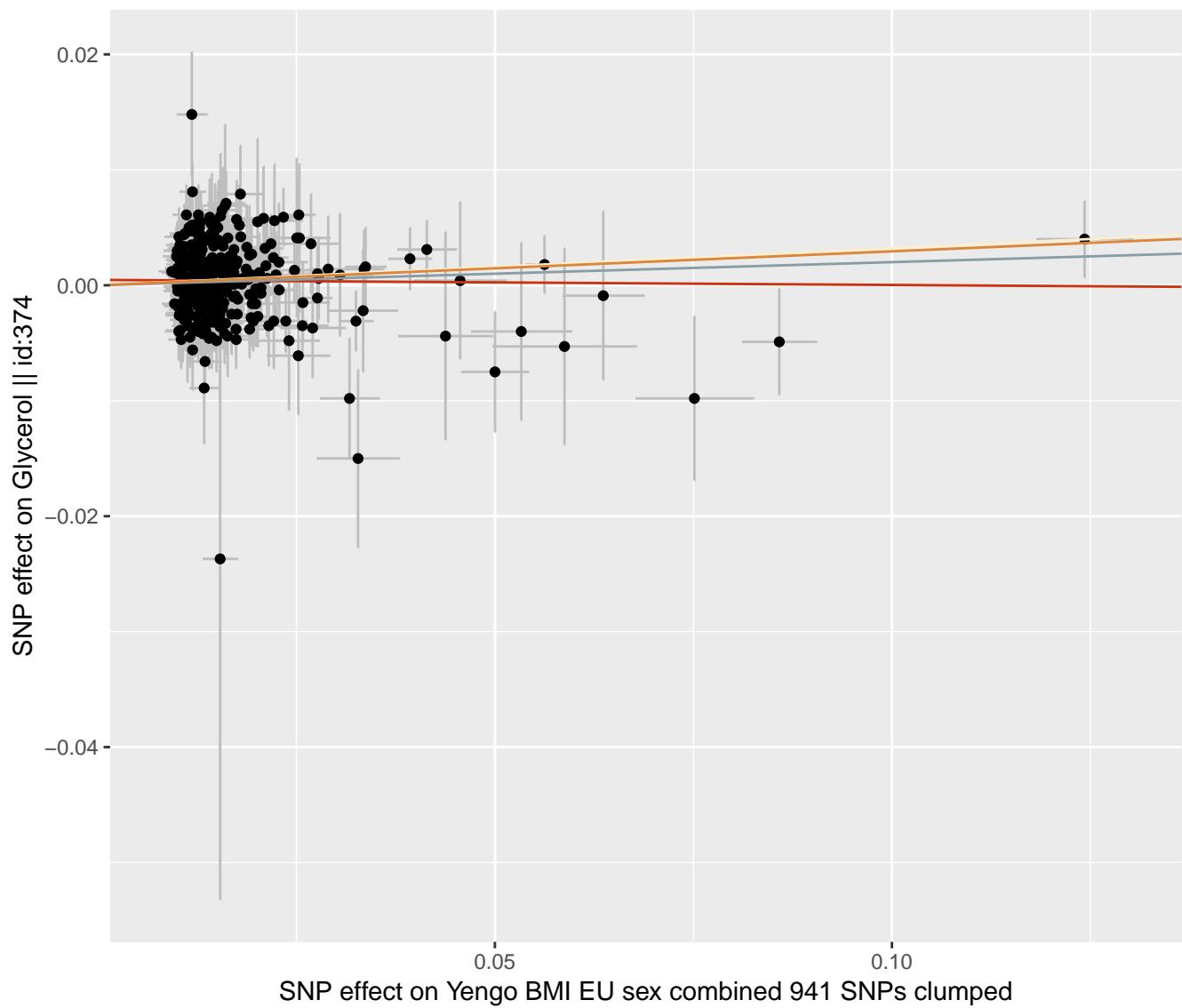
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



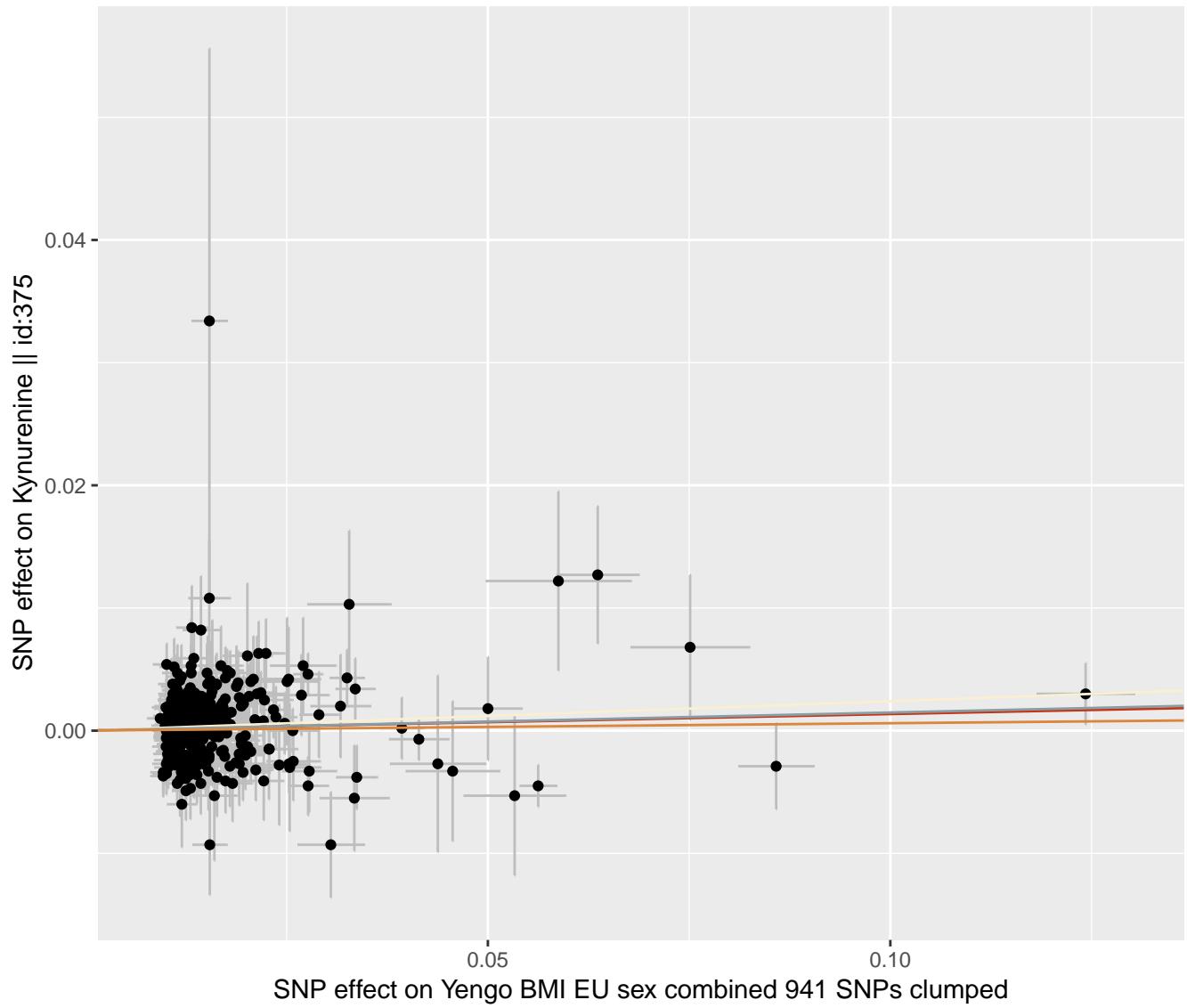
MR Egger



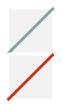
Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

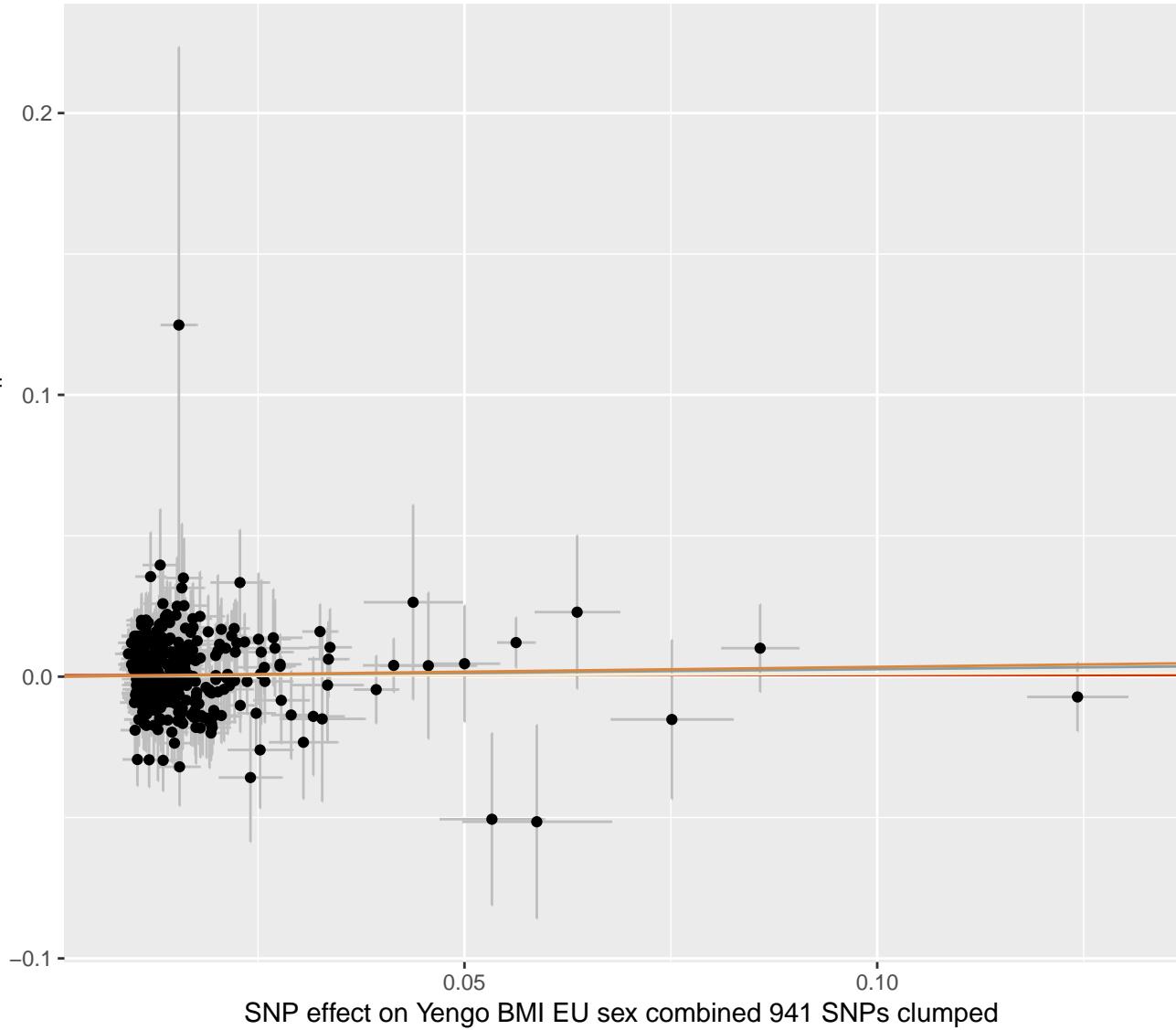


Weighted median



Weighted mode

SNP effect on Mannitol || id:376



### MR Test



Inverse variance weighted (multiplicative random effects)



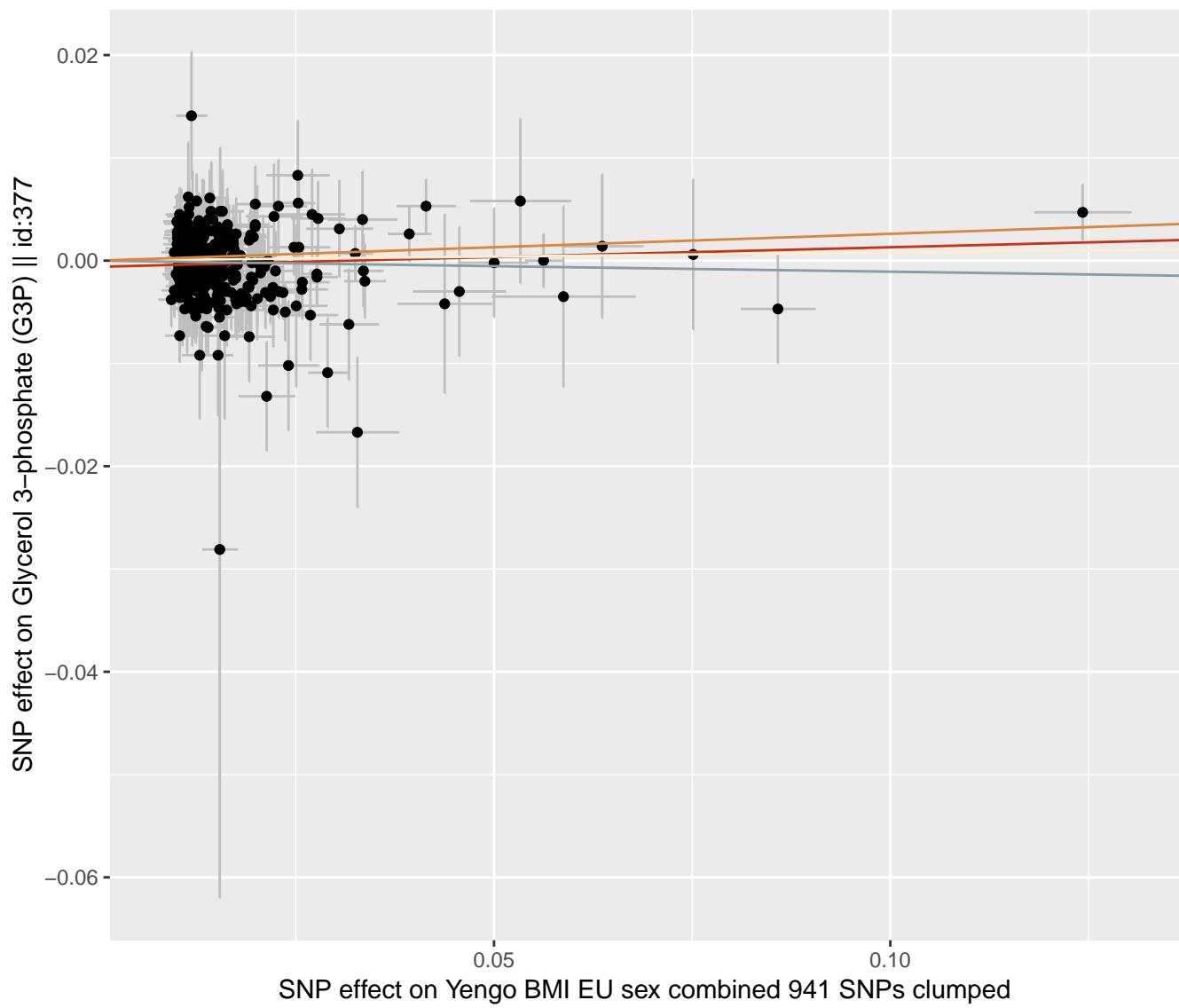
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

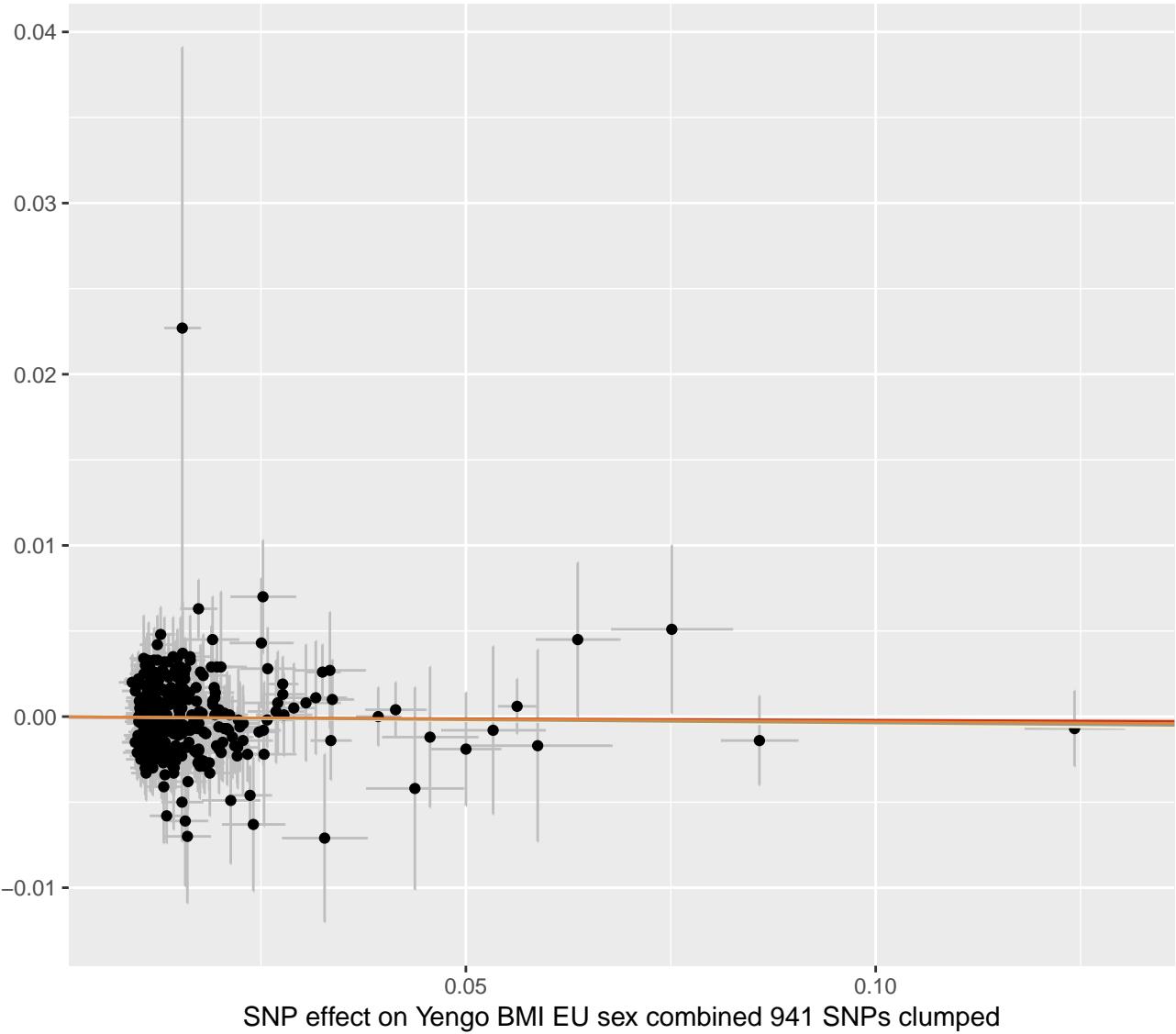


Weighted median



Weighted mode

SNP effect on Acetylphosphate || id:378



## MR Test



Inverse variance weighted (multiplicative random effects)



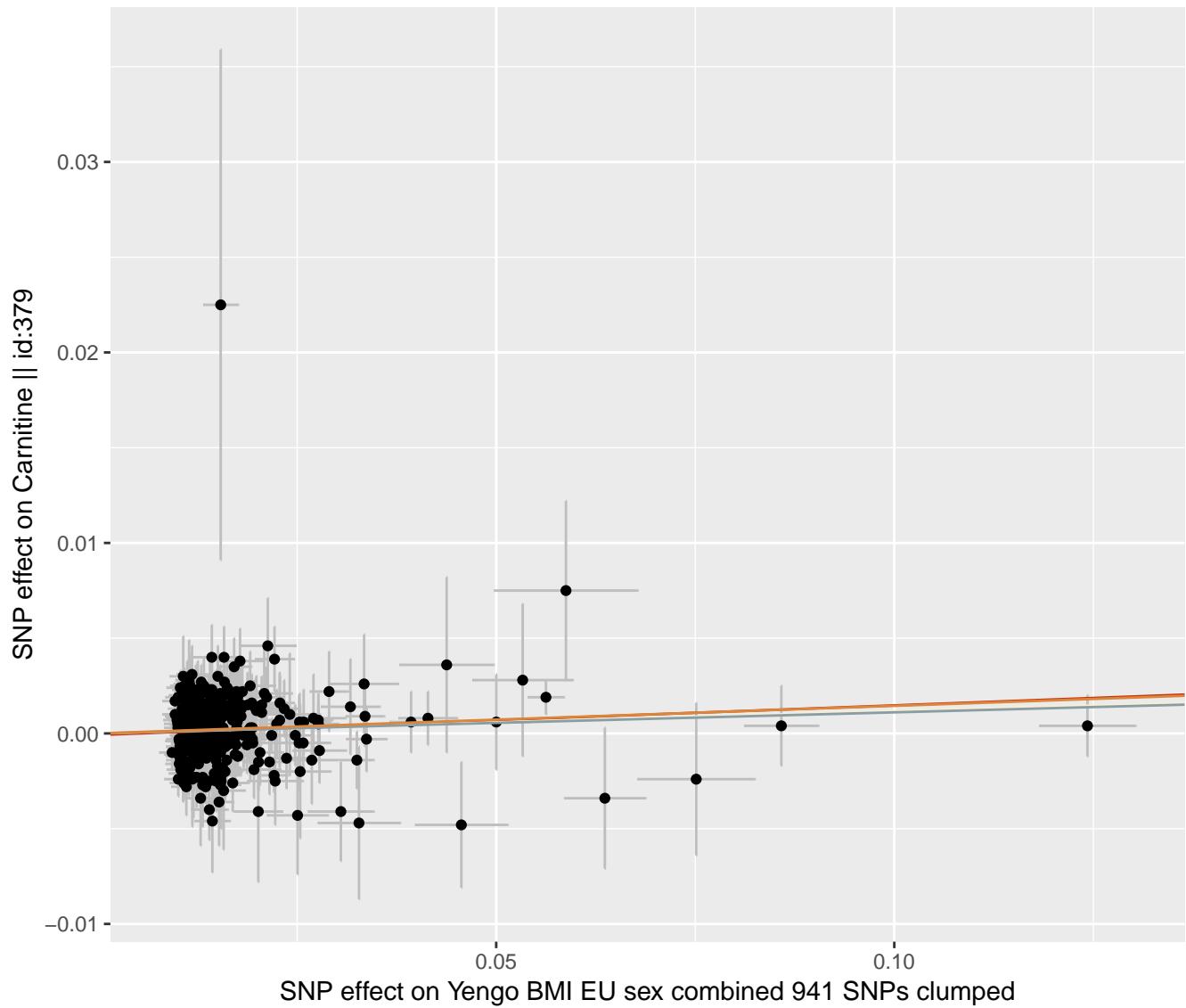
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



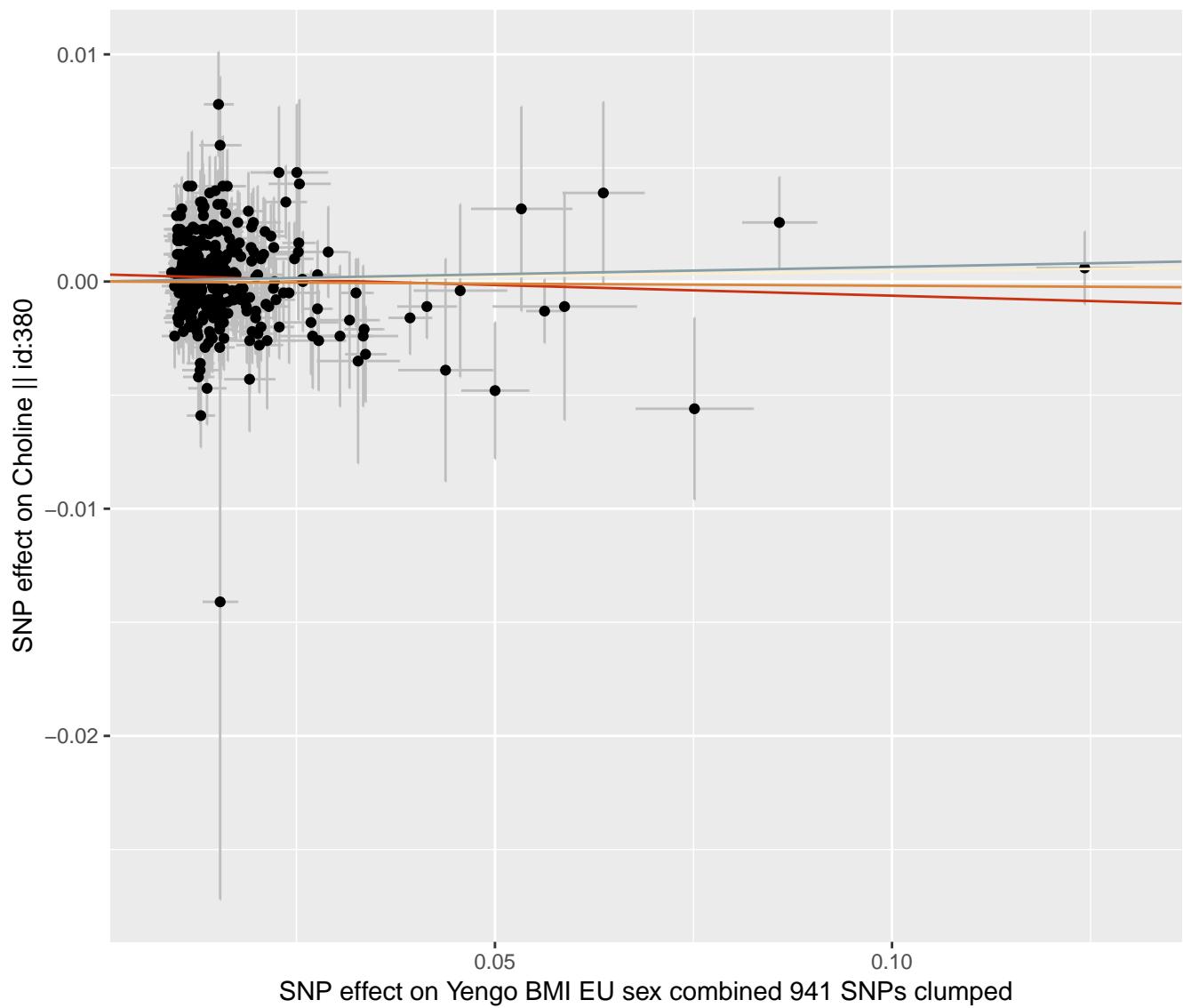
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



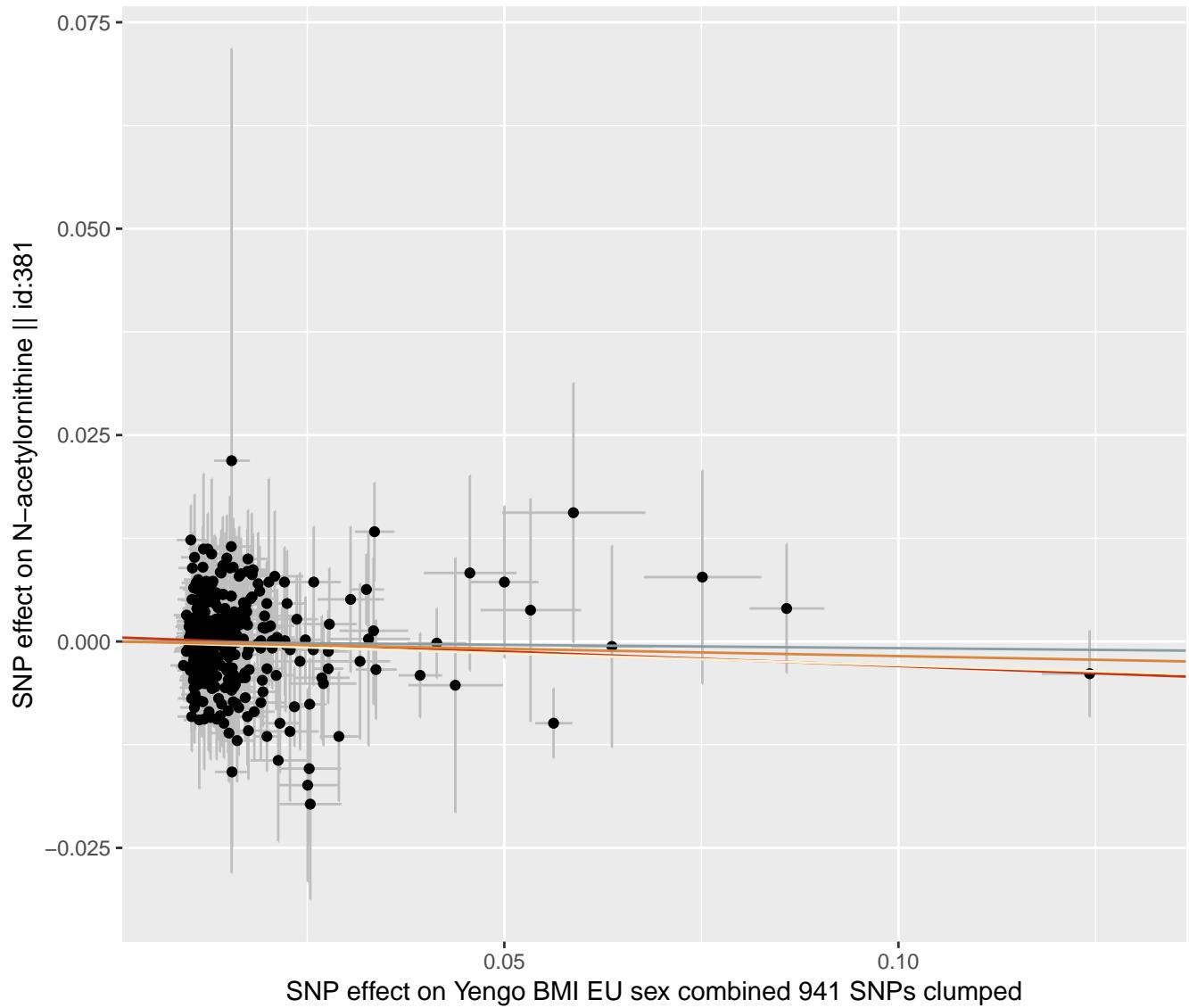
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



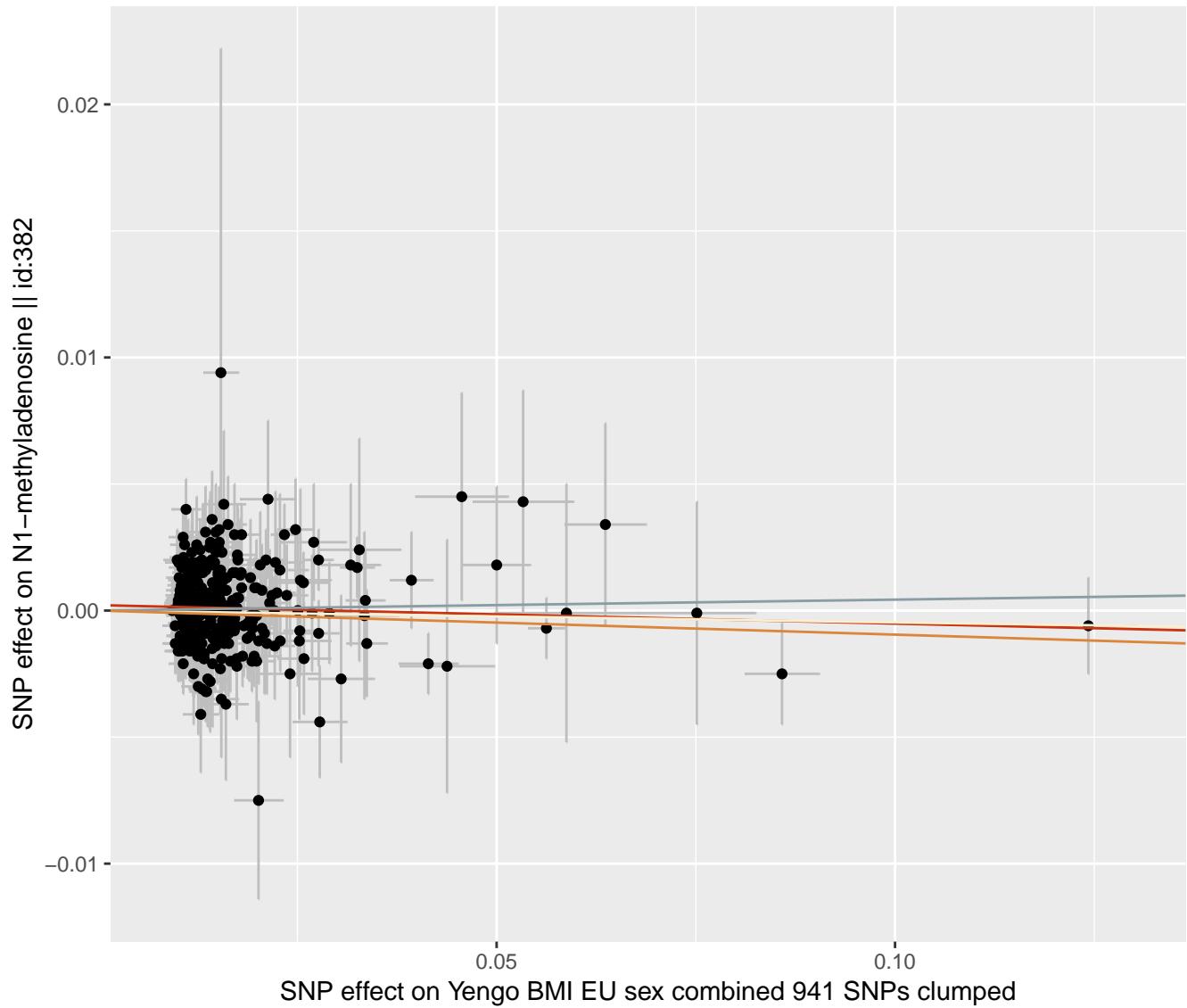
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



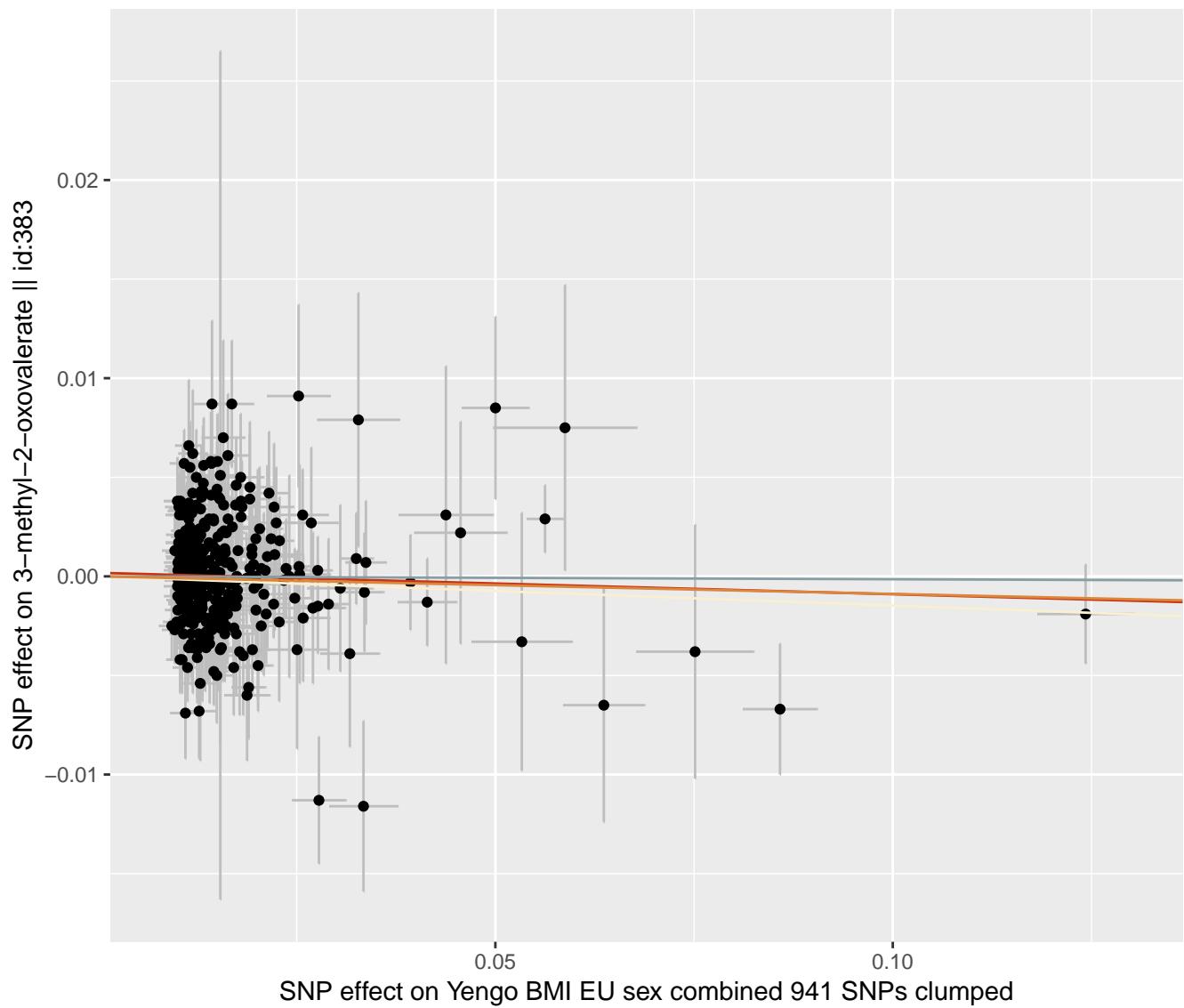
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



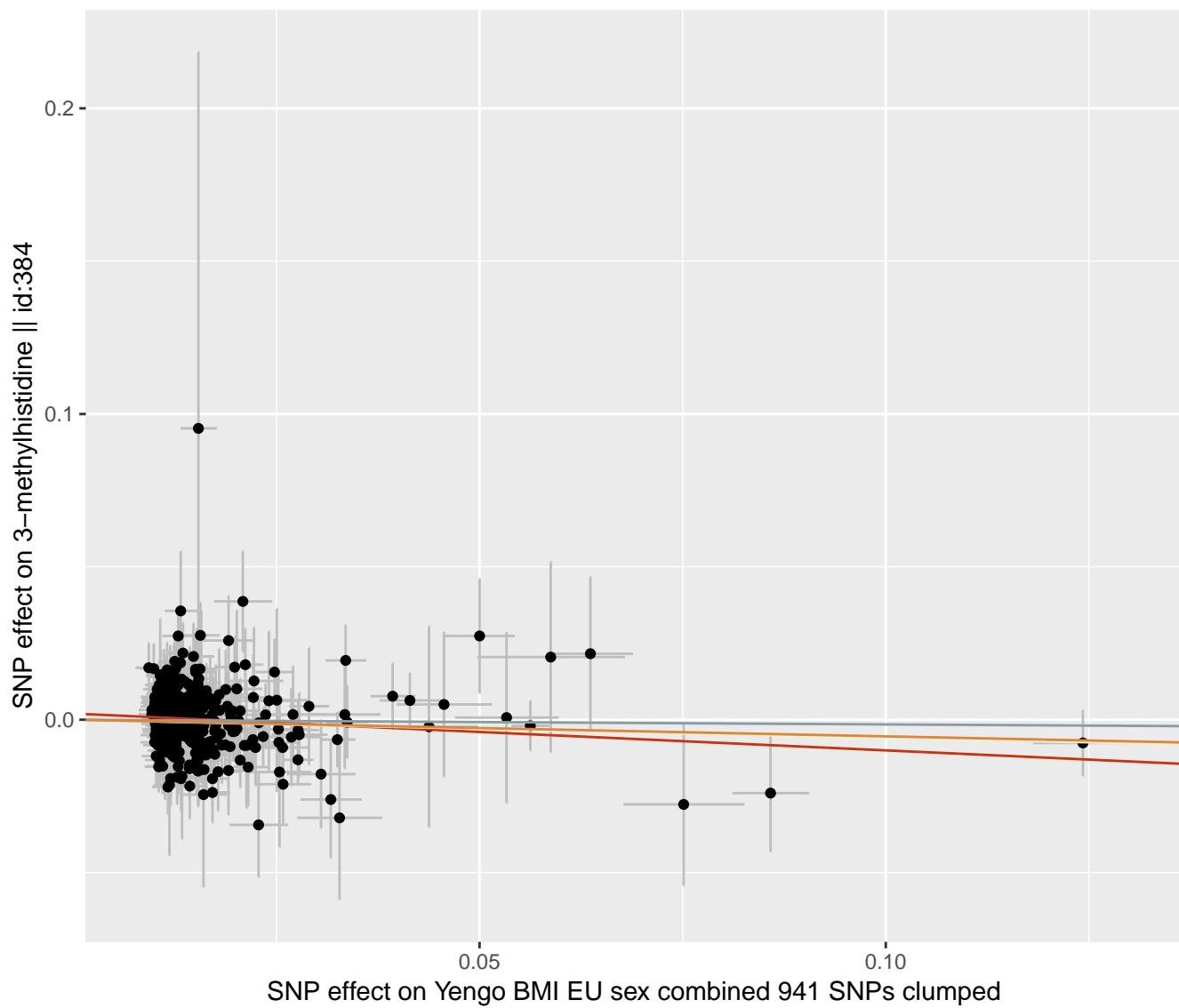
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

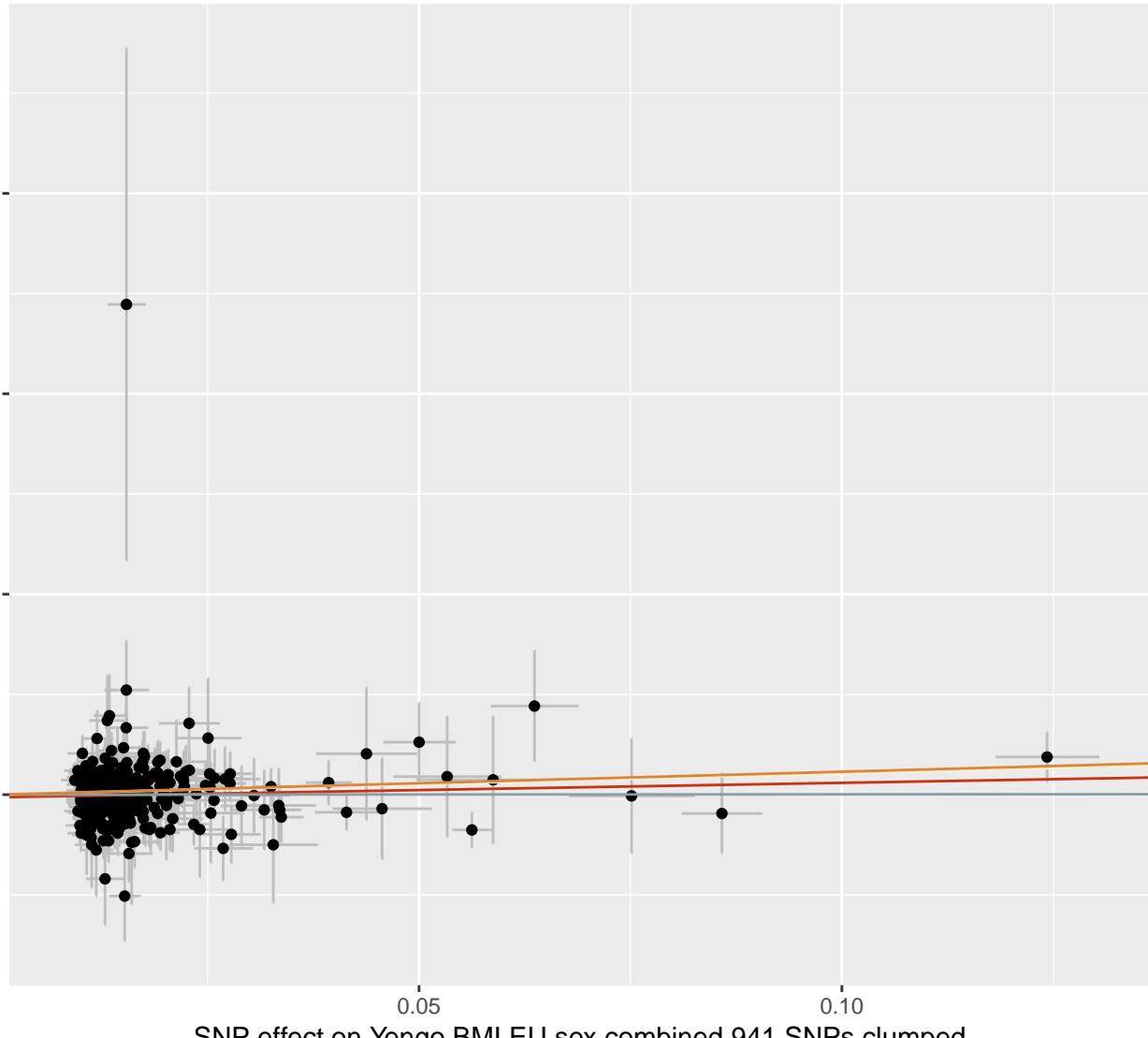


Weighted median



Weighted mode

SNP effect on 3-phenylpropionate (hydrocinnamate) || id:385



### MR Test



Inverse variance weighted (multiplicative random effects)



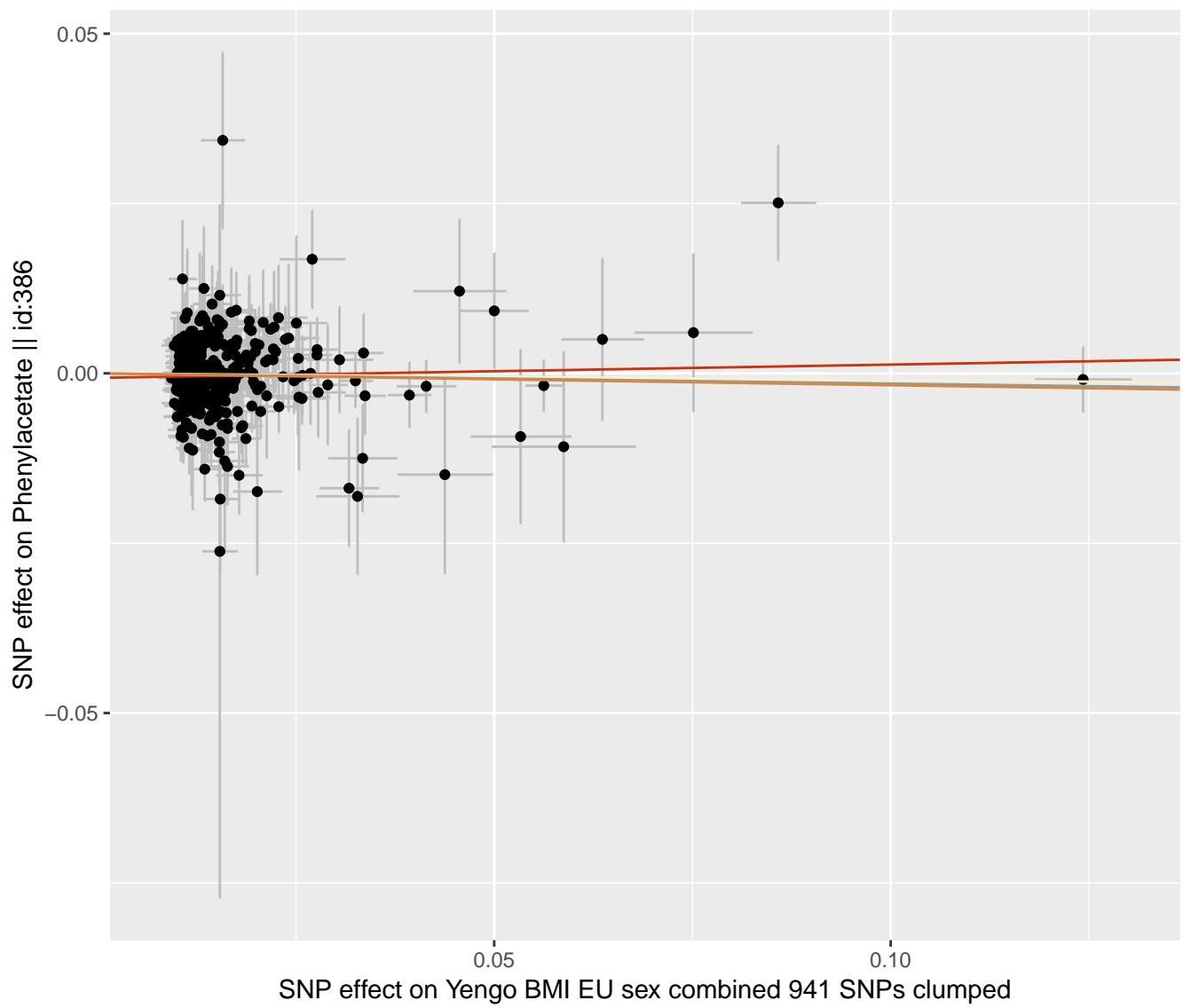
MR Egger



Weighted median

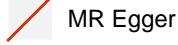


Weighted mode

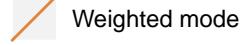


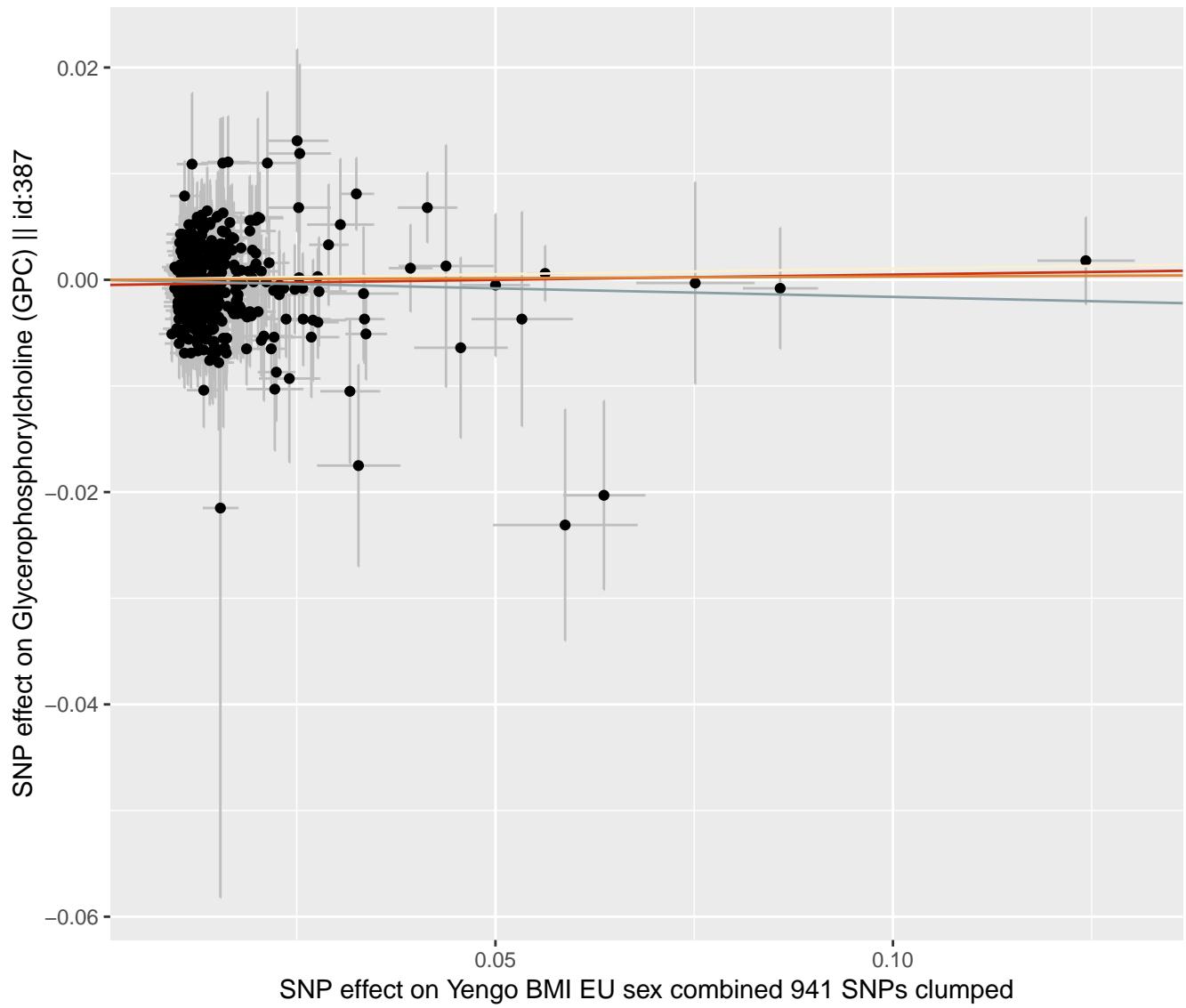
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



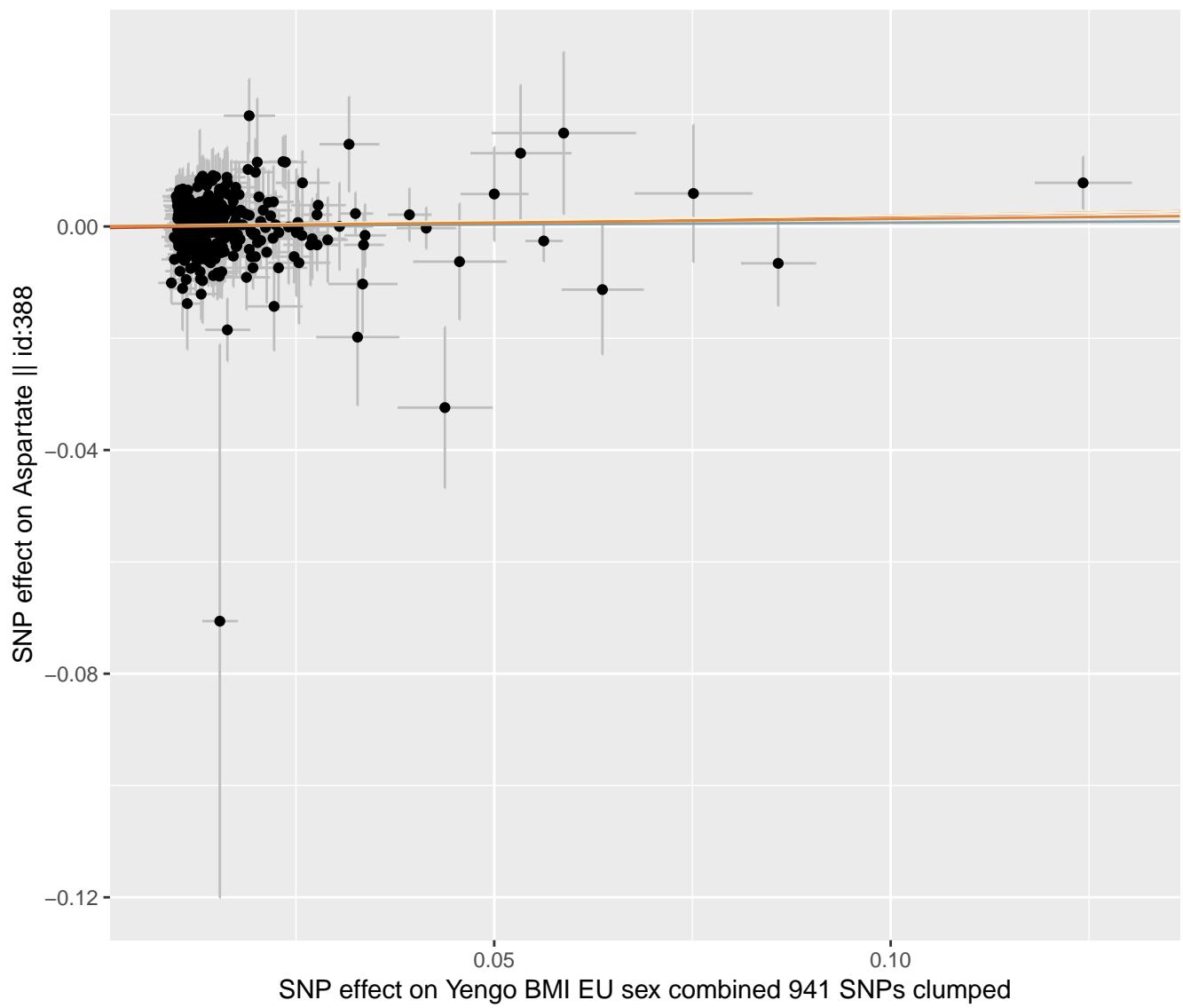
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



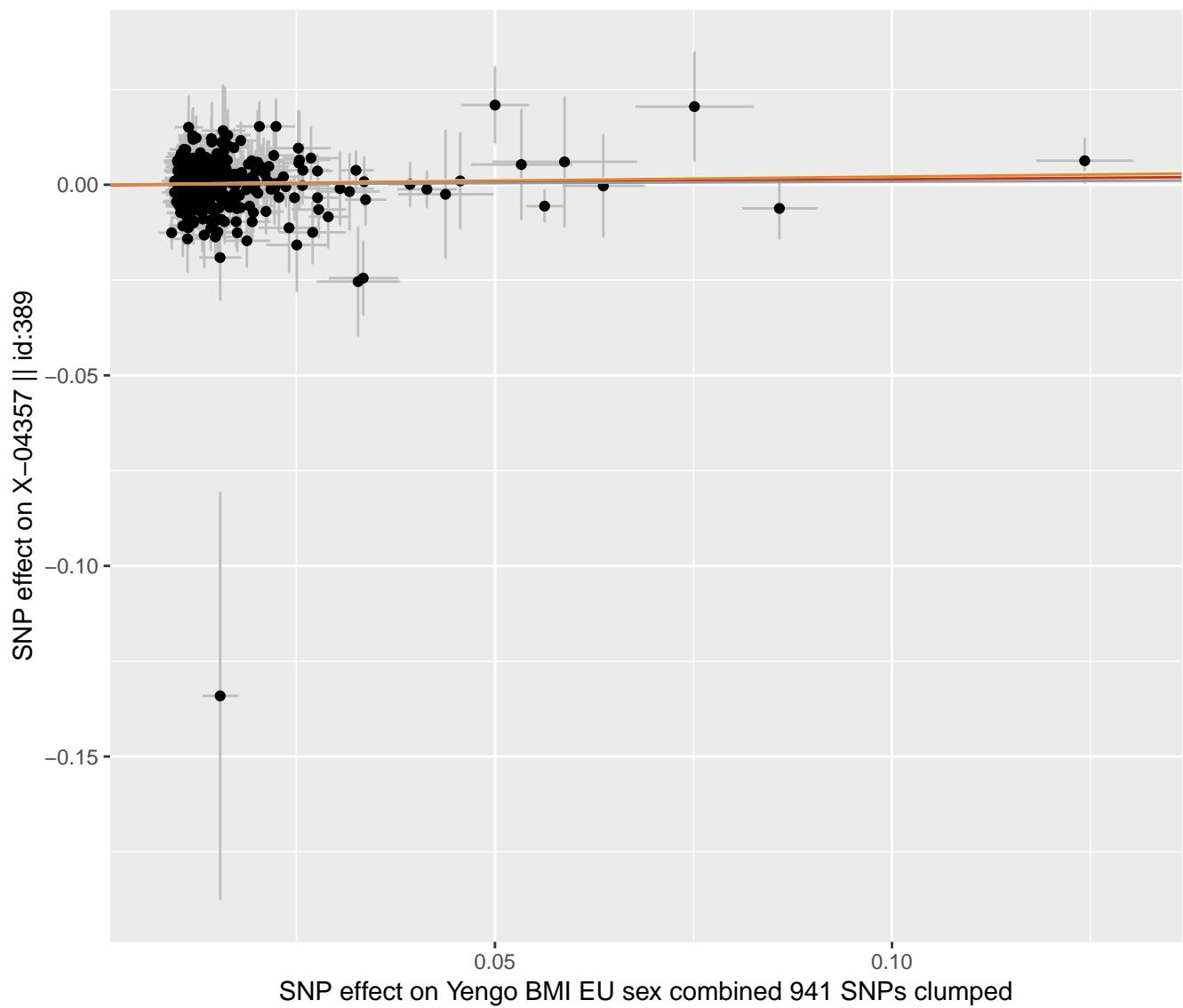
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

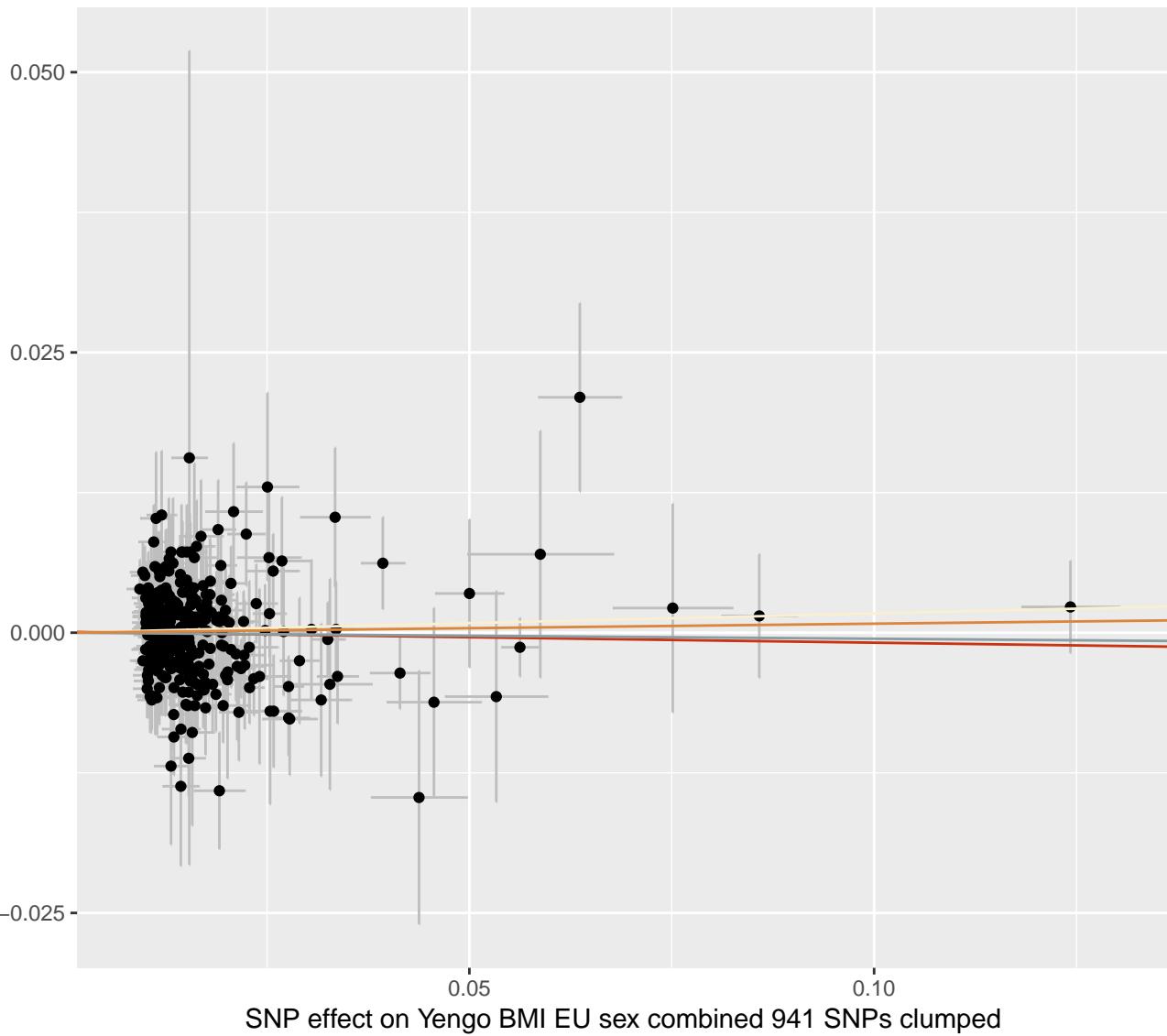


Weighted median



Weighted mode

SNP effect on X-04494 || id:390



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

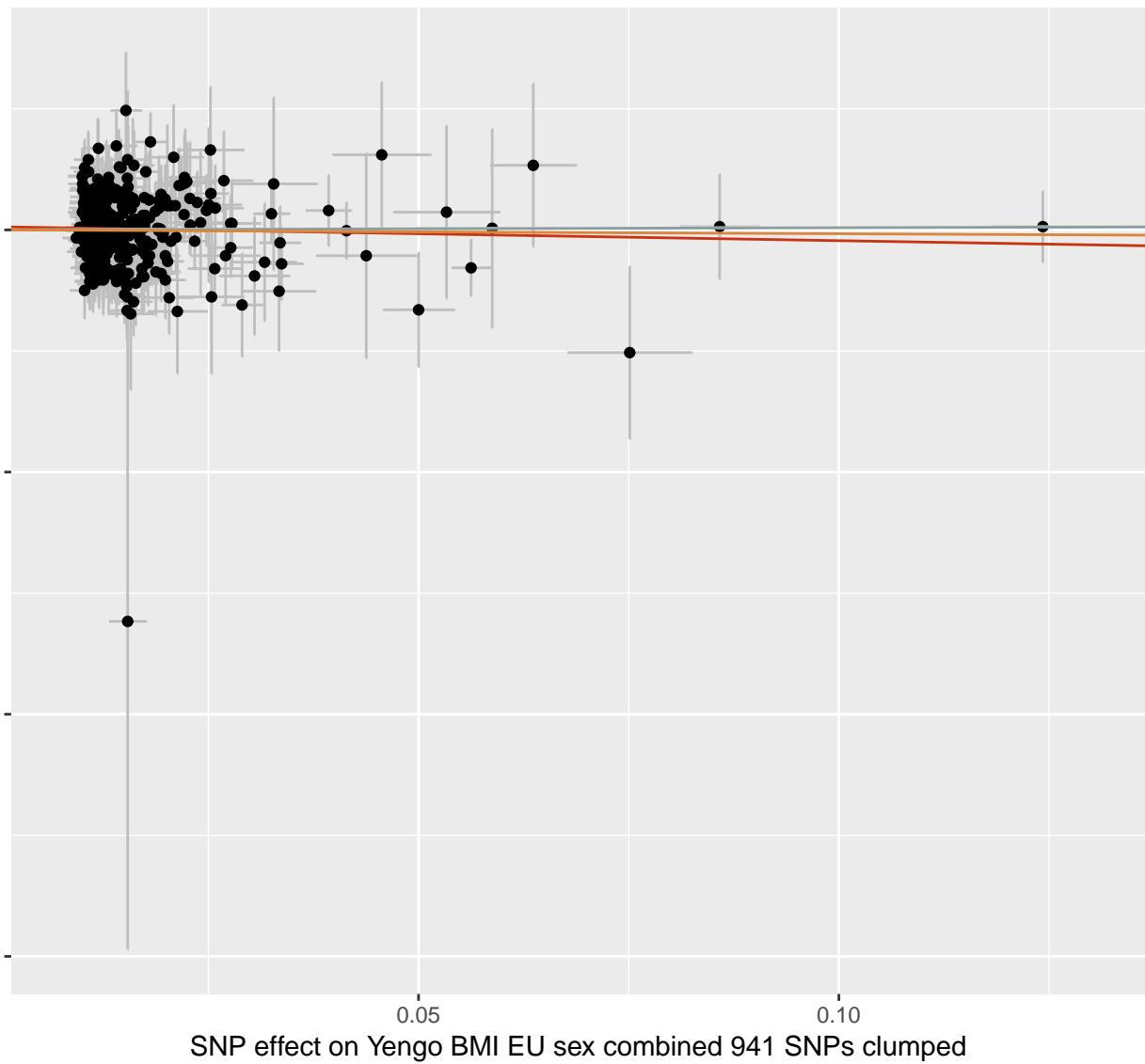


Weighted median



Weighted mode

SNP effect on X-04495 || id:391



## MR Test



Inverse variance weighted (multiplicative random effects)



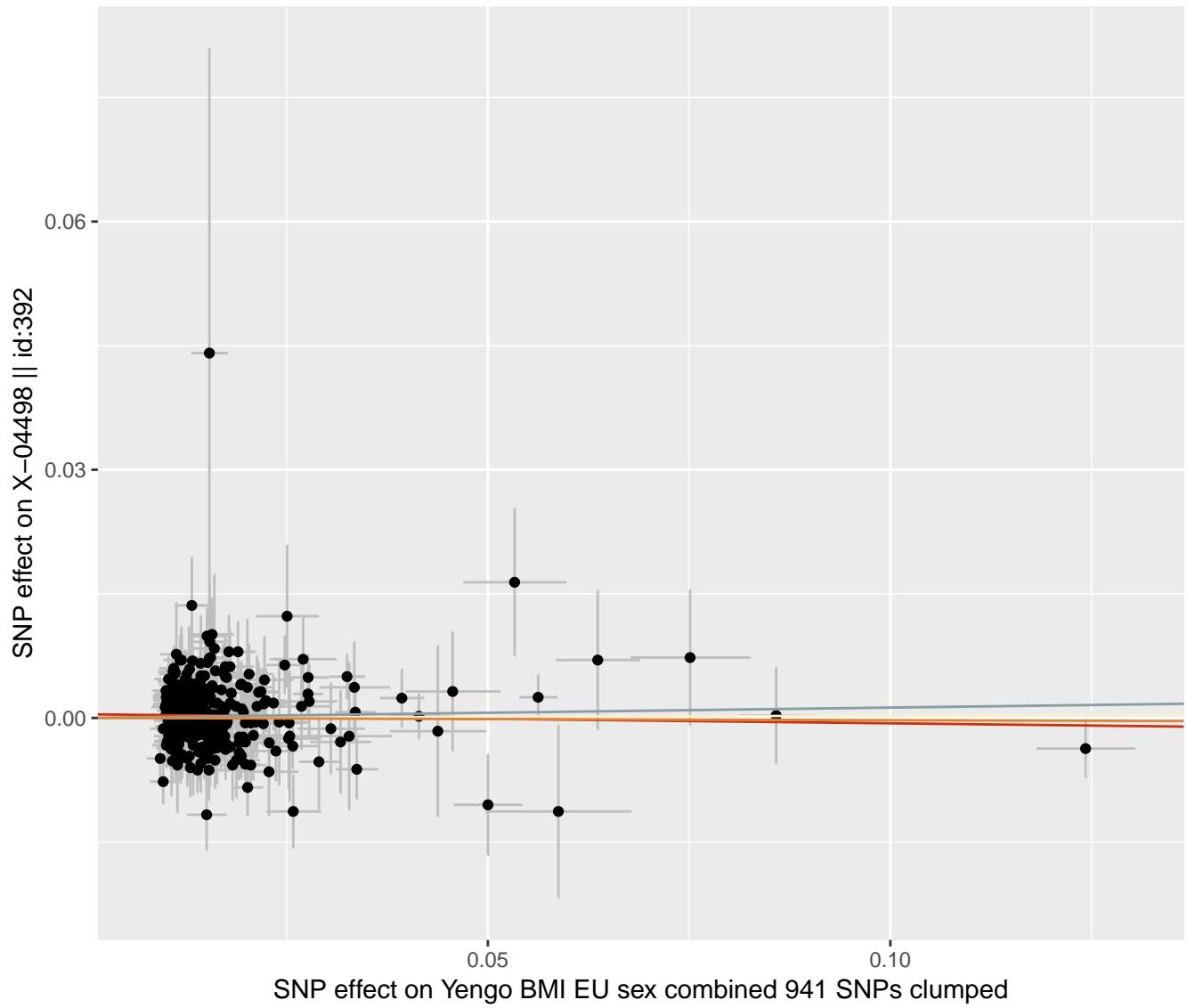
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

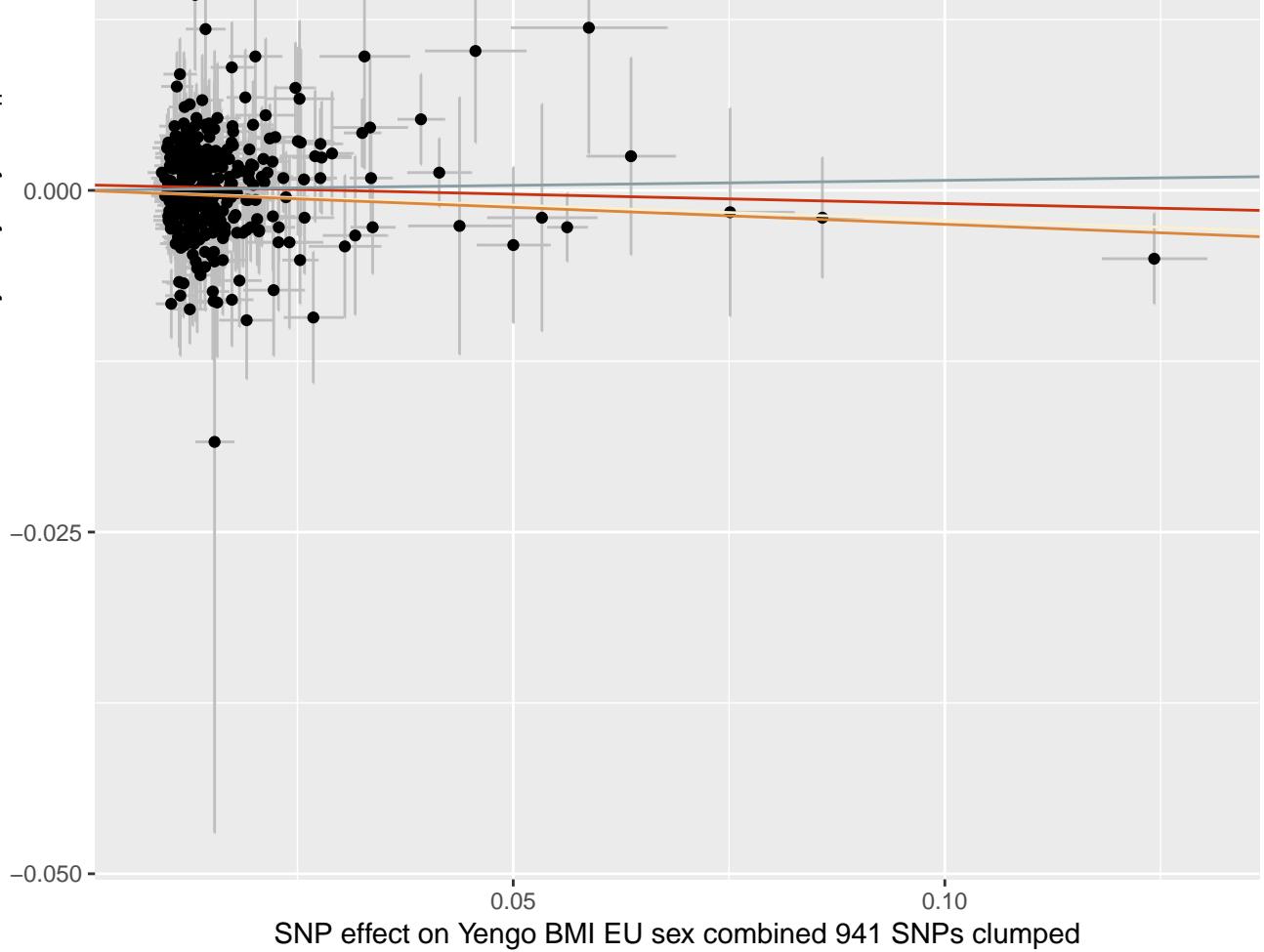


Weighted median



Weighted mode

SNP effect on X-04499--3,4-dihydroxybutyrate || id:393



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



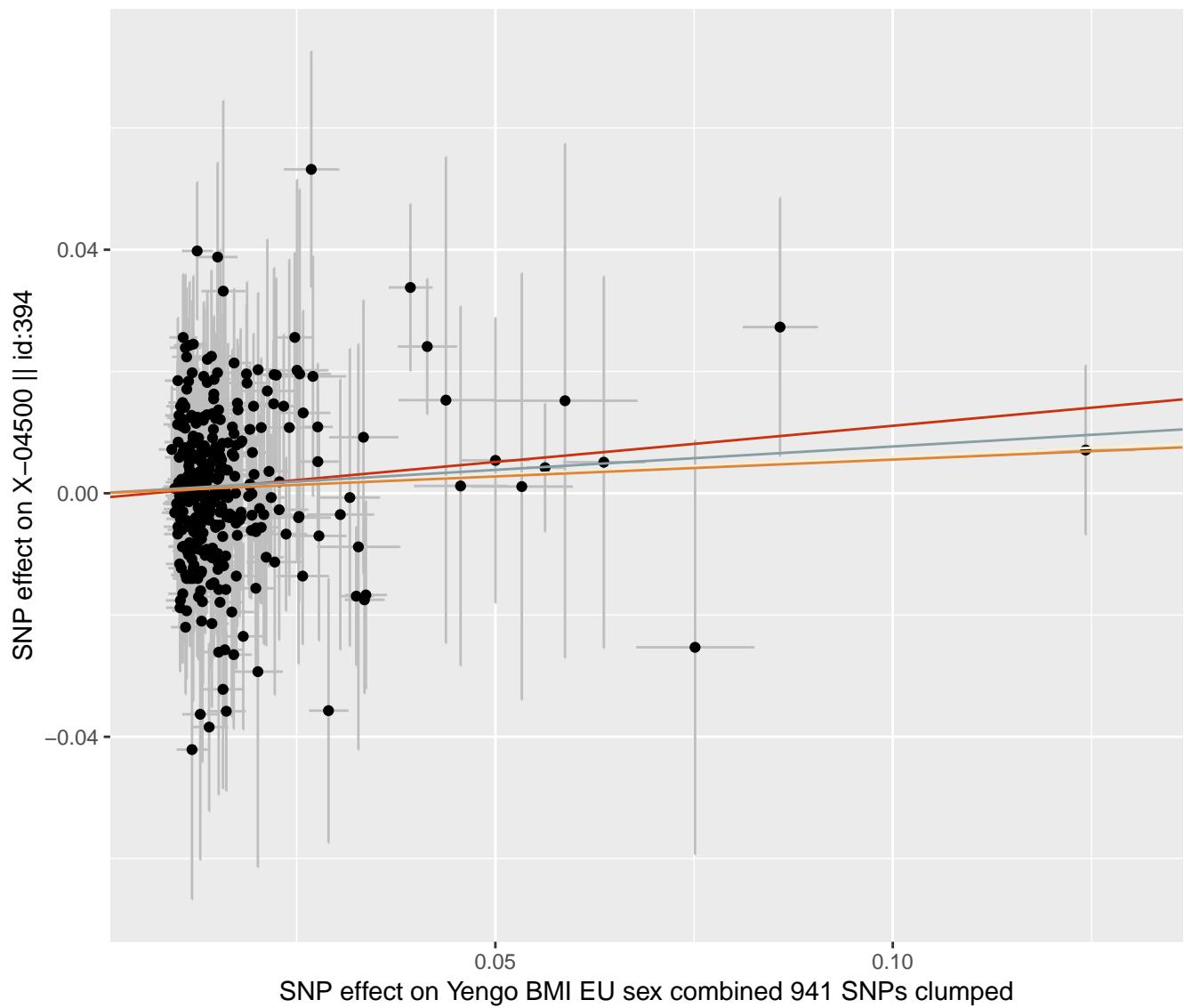
MR Egger



Weighted median



Weighted mode



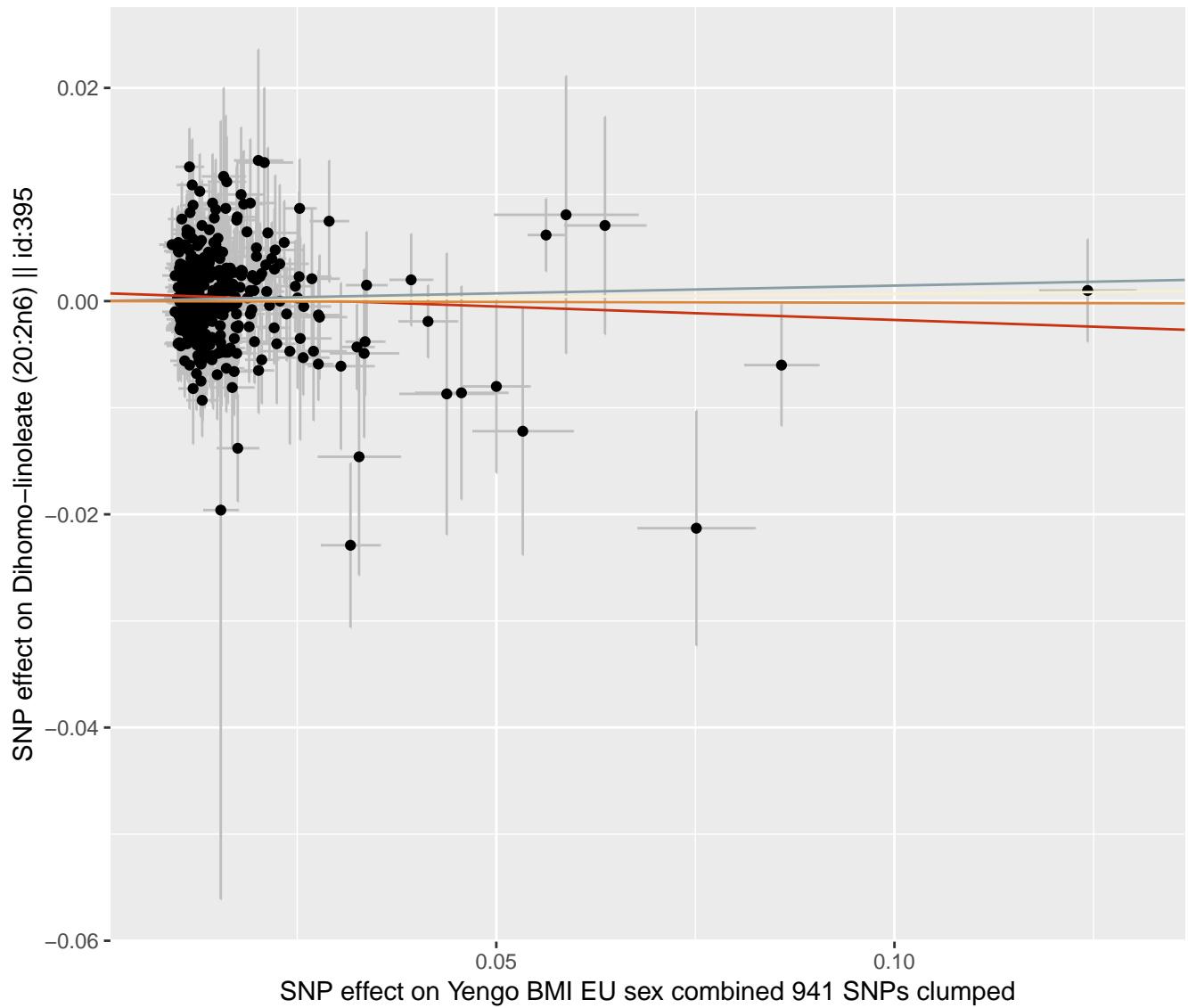
### MR Test

 Inverse variance weighted (multiplicative random effects)

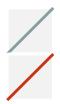
 MR Egger

 Weighted median

 Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



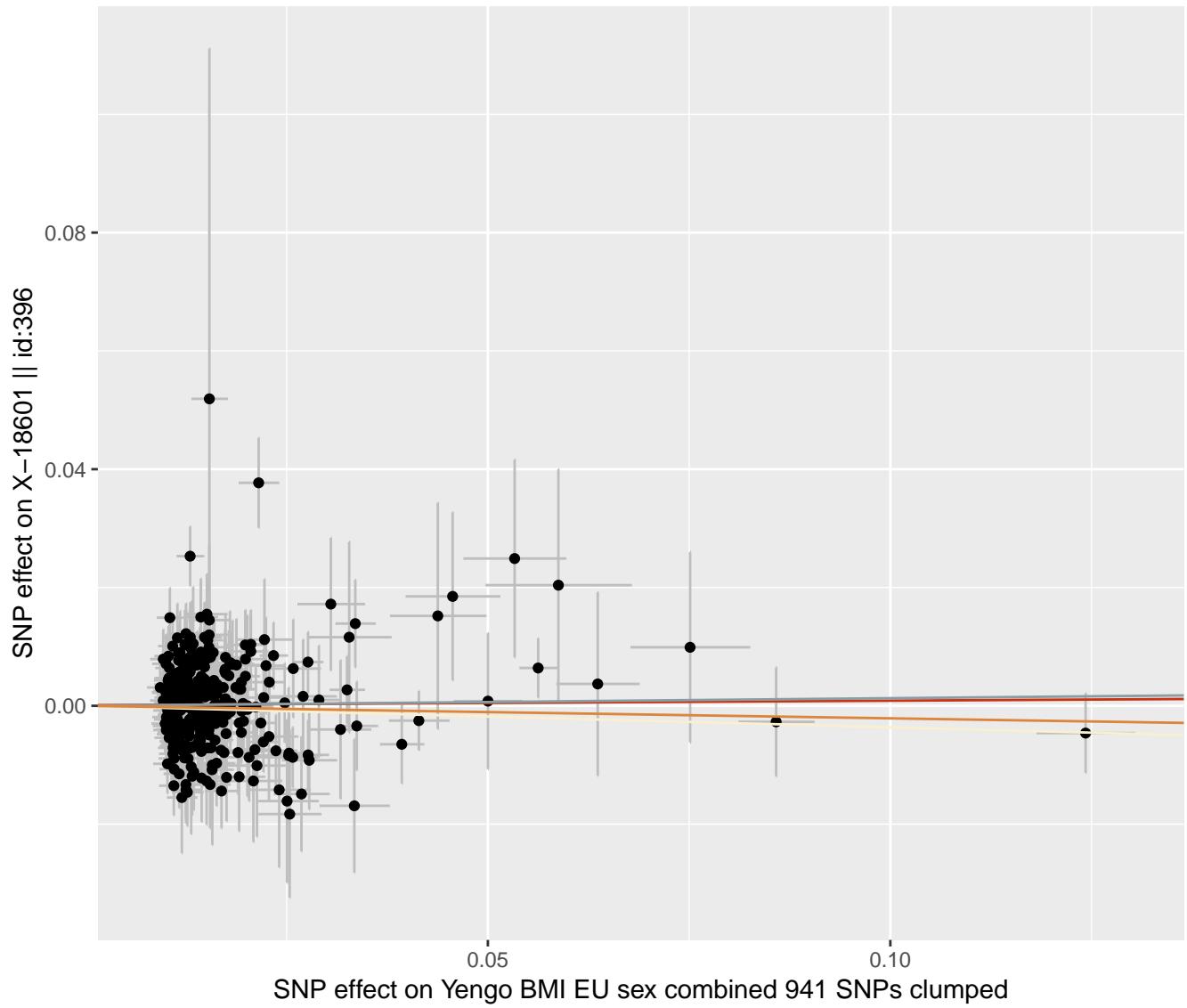
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



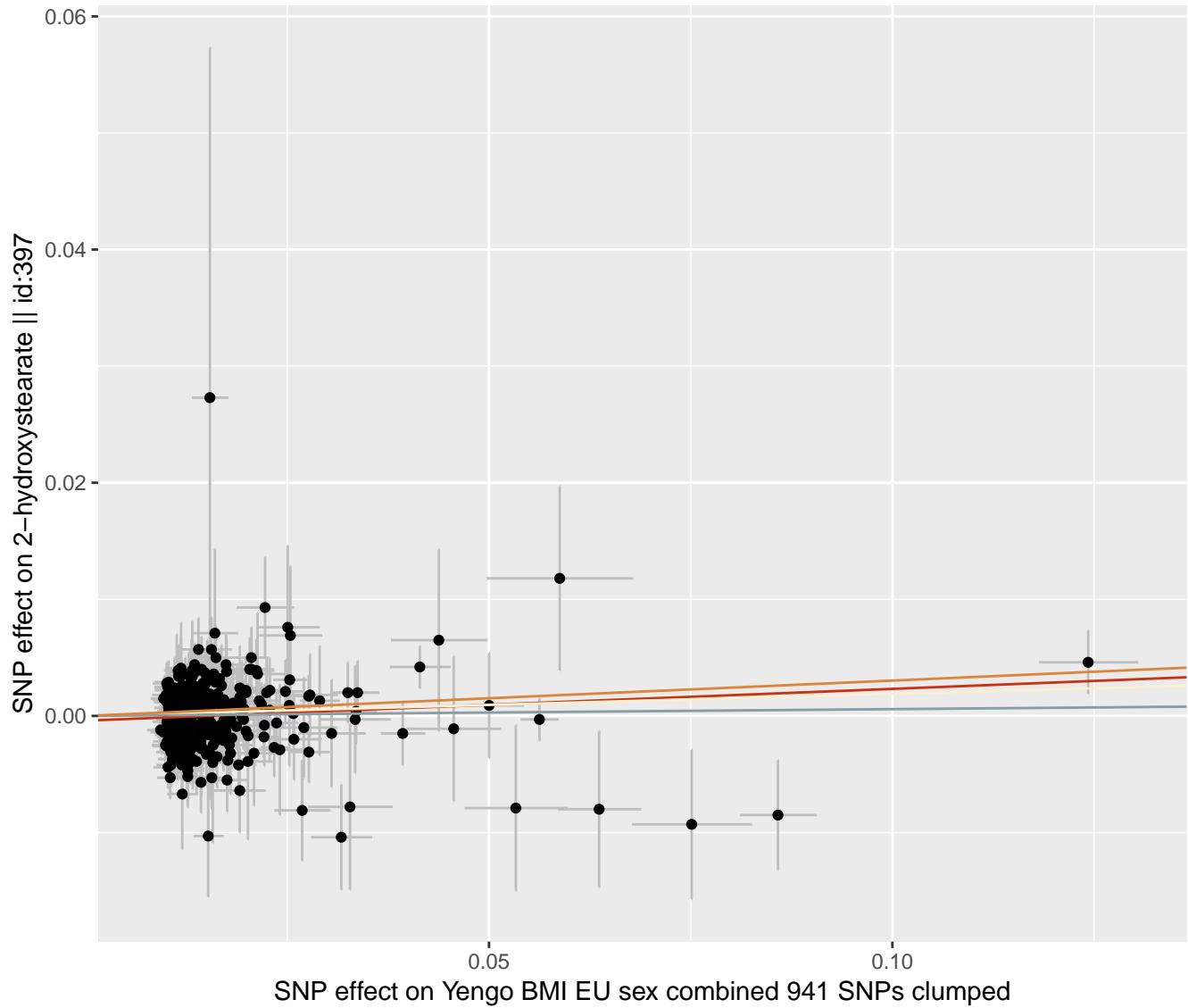
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on X-05426 || id:398

0.10

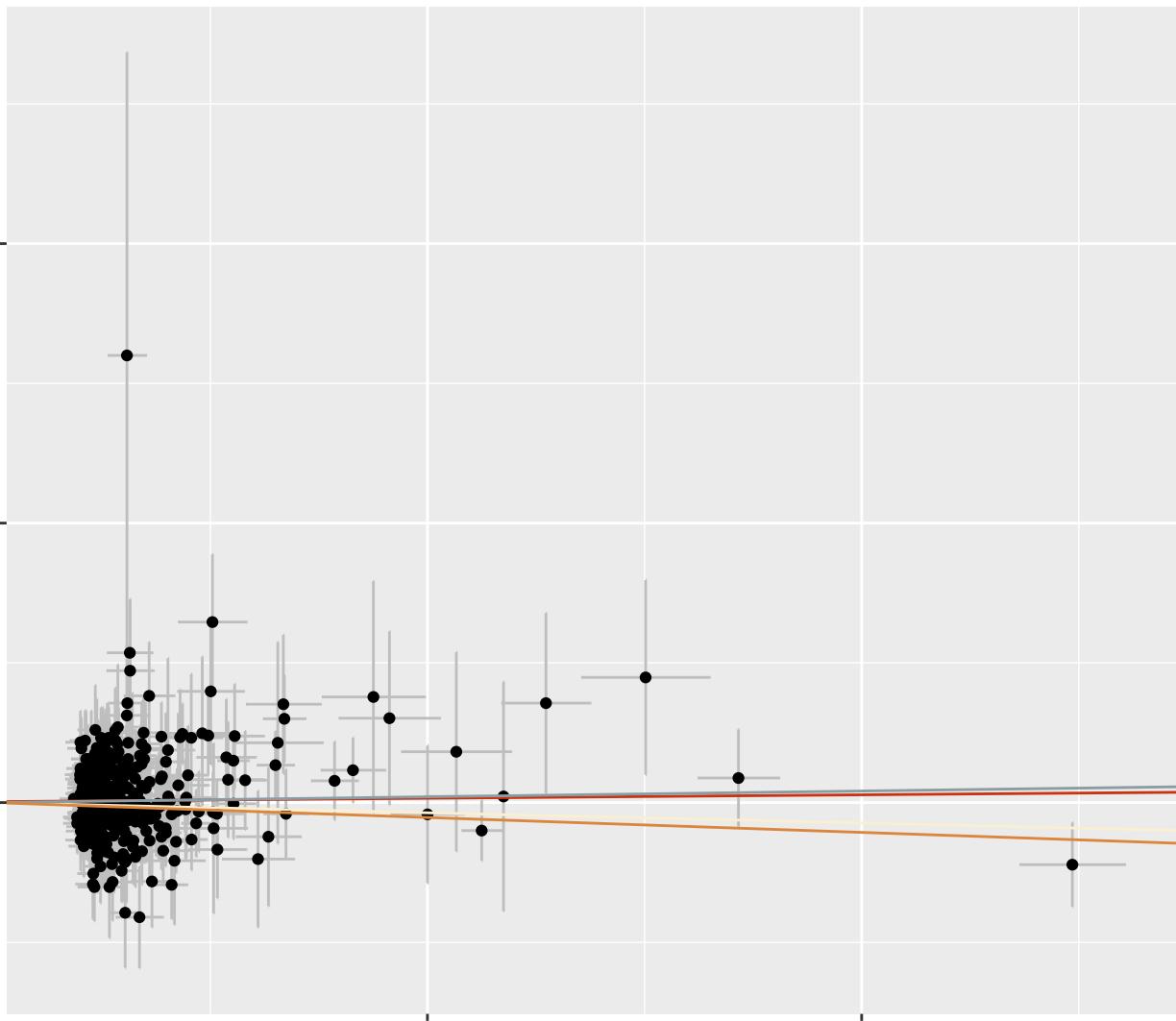
0.05

0.00

0.05

0.10

SNP effect on Yengo BMI EU sex combined 941 SNPs clumped



### MR Test



Inverse variance weighted (multiplicative random effects)



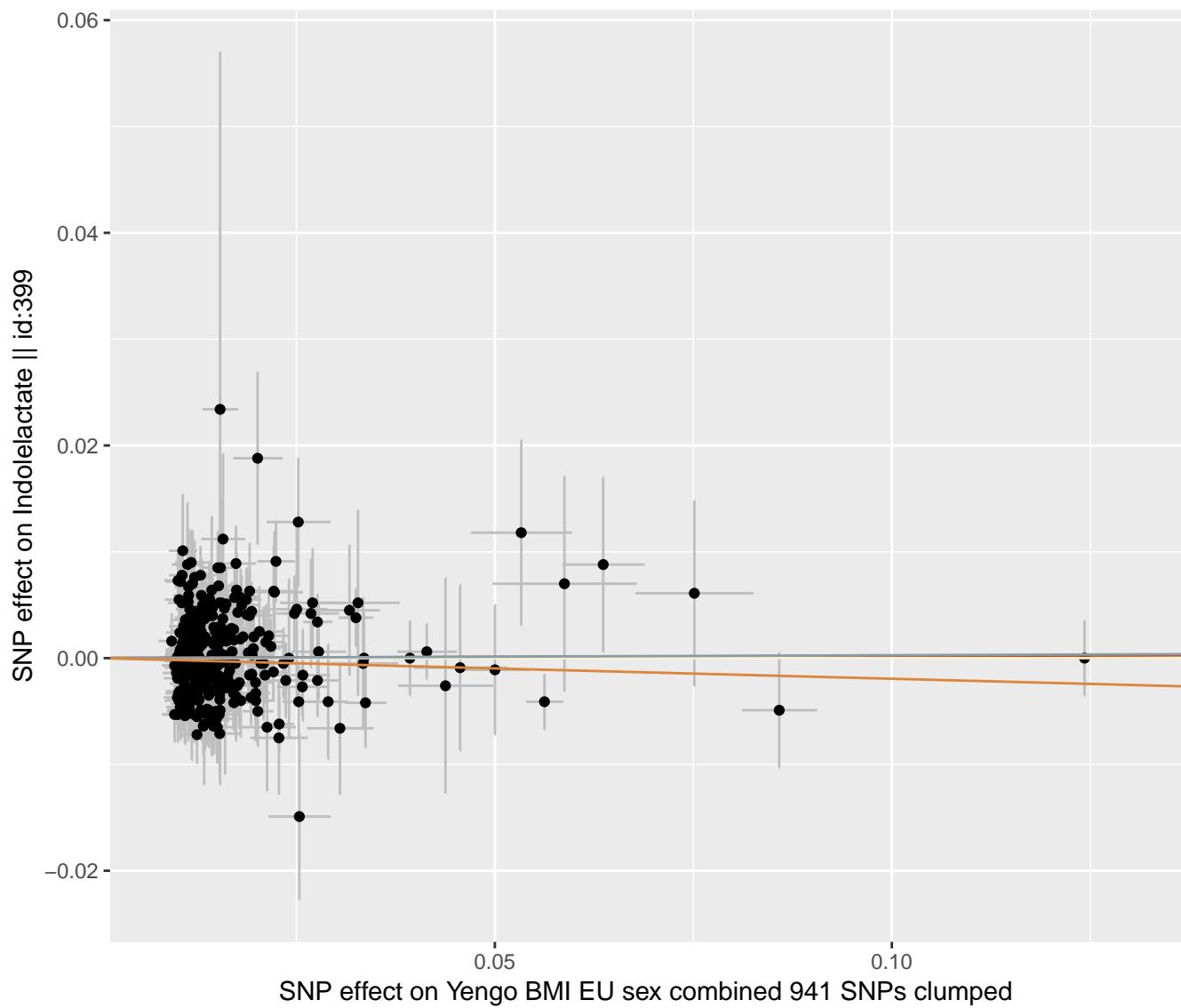
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



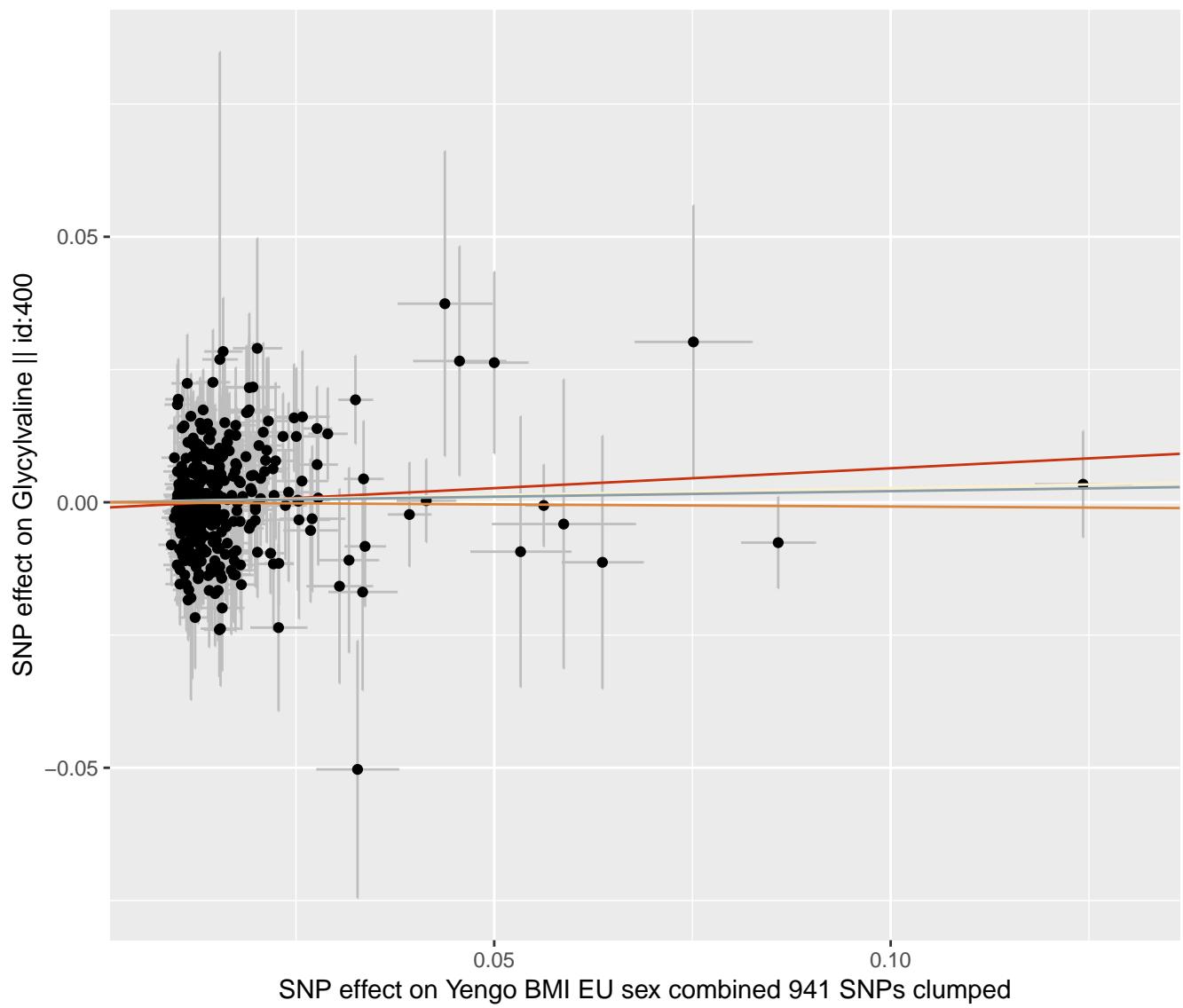
MR Egger



Weighted median

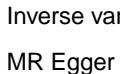


Weighted mode



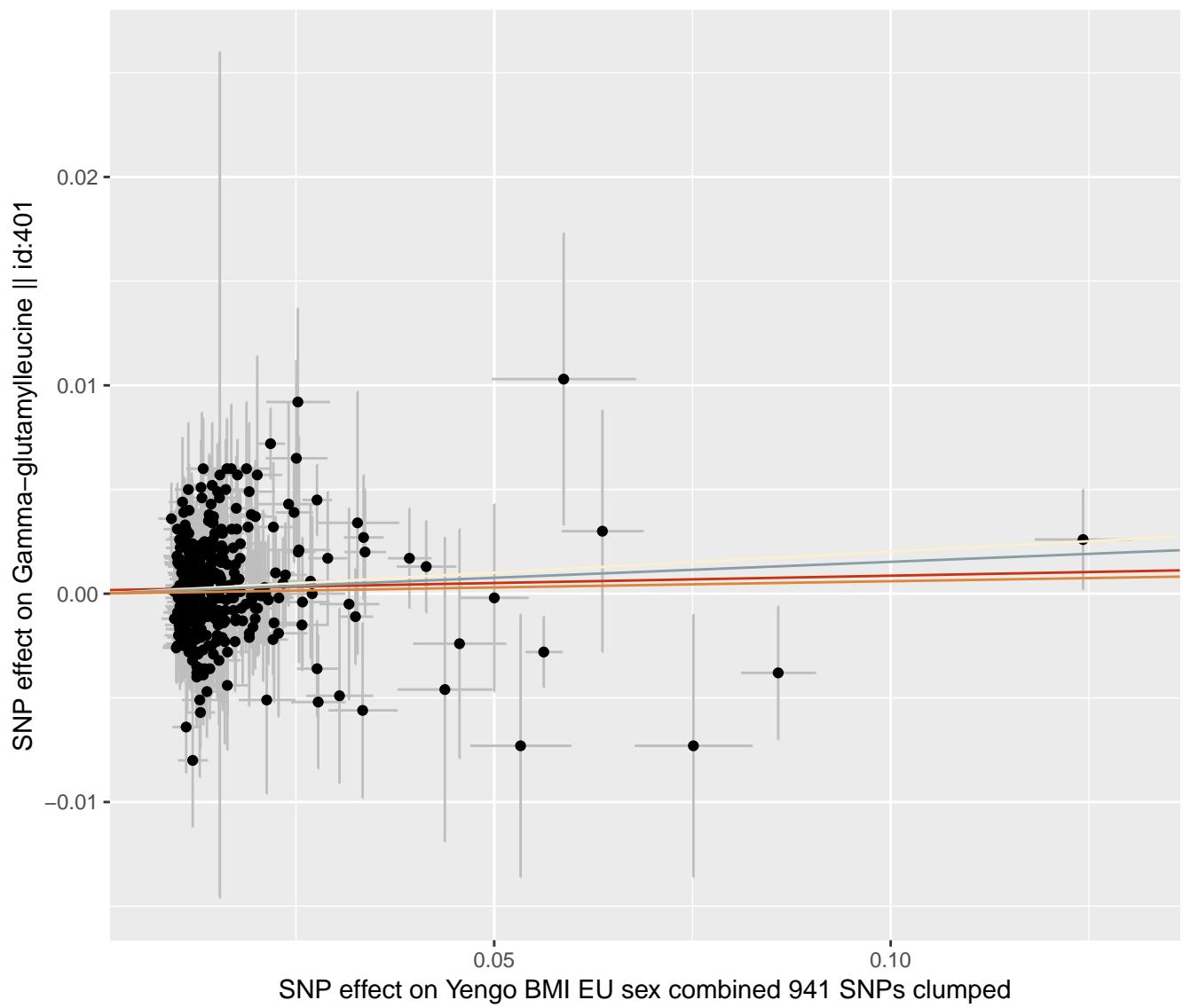
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



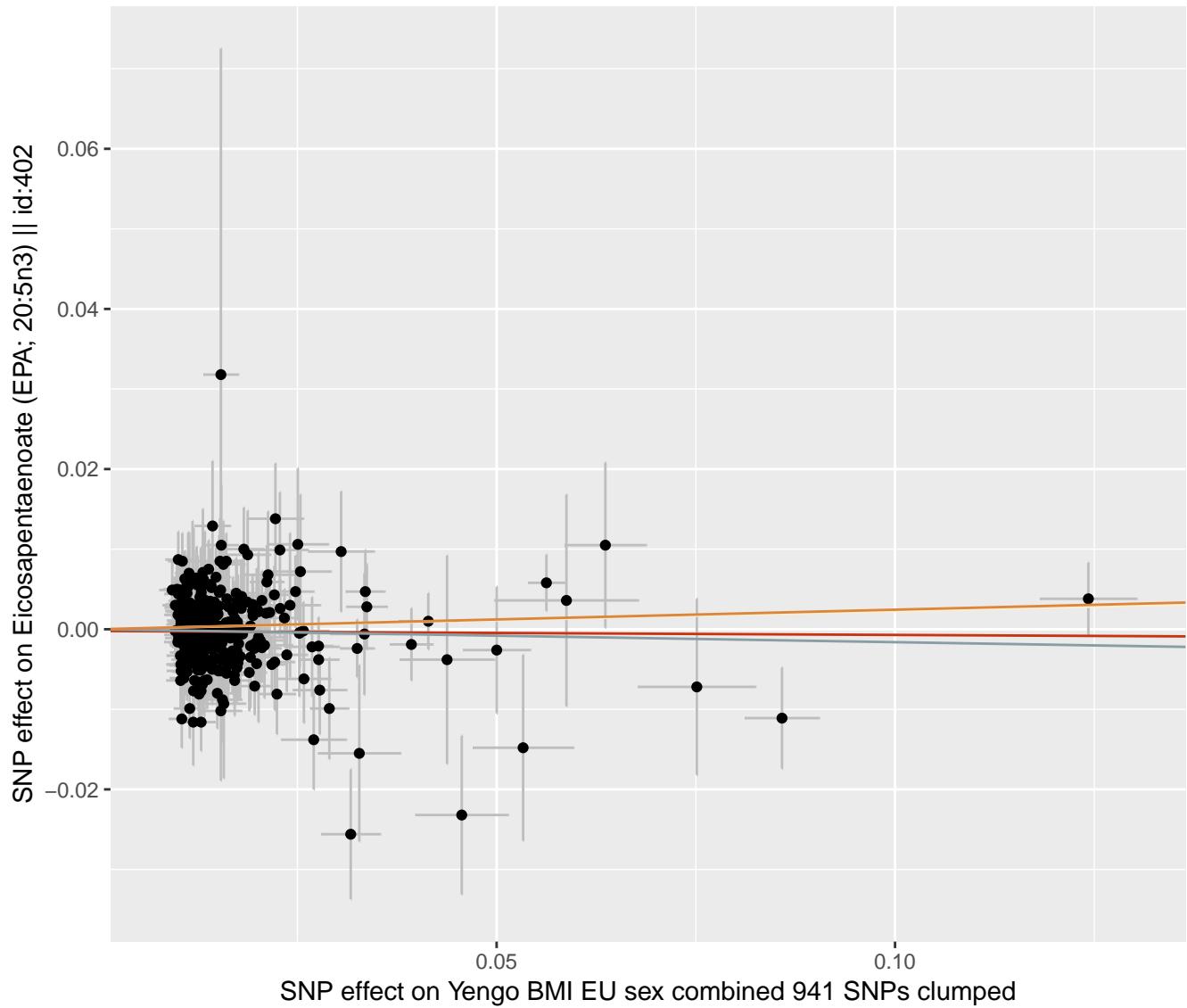
MR Egger



Weighted median



Weighted mode



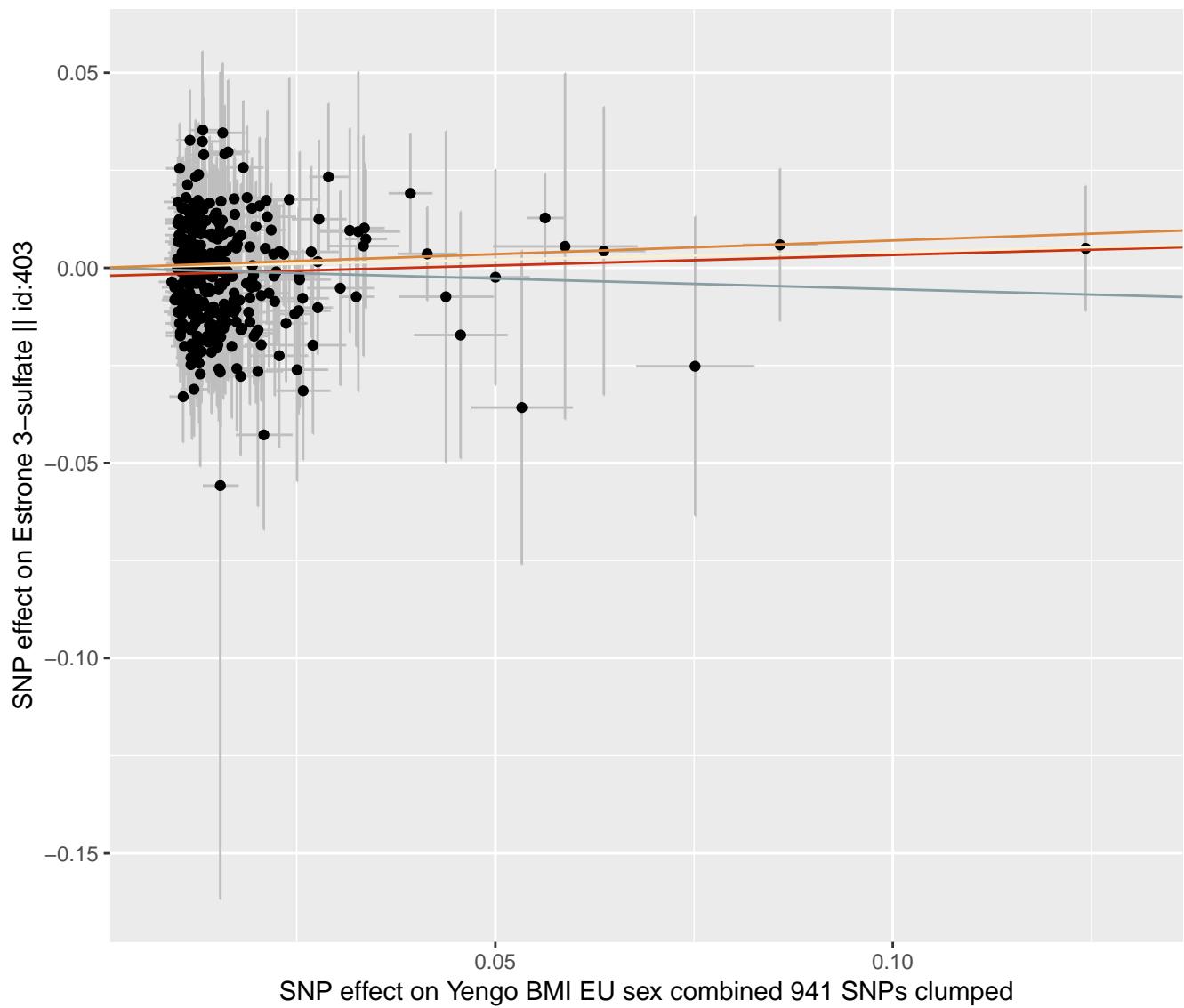
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



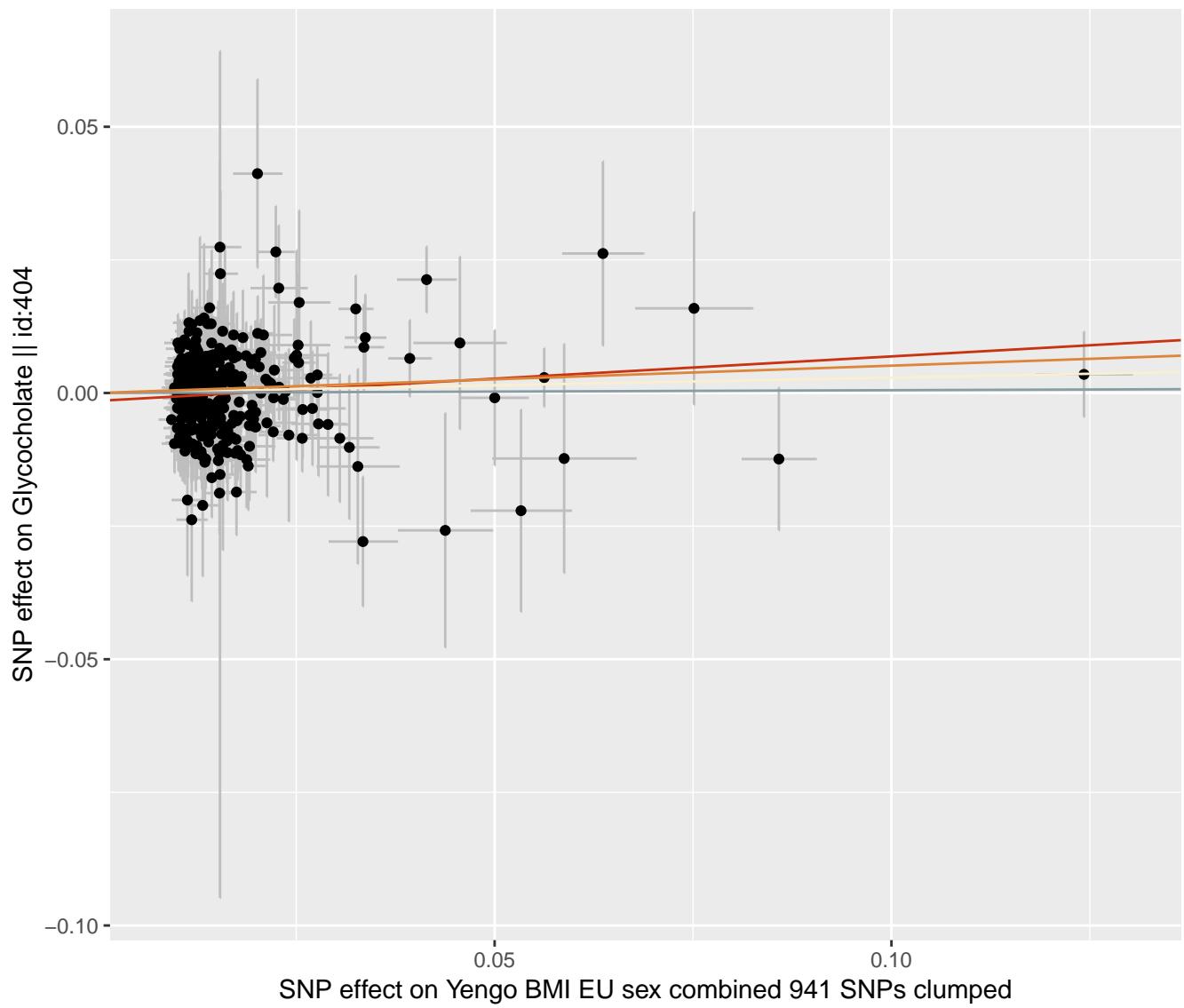
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



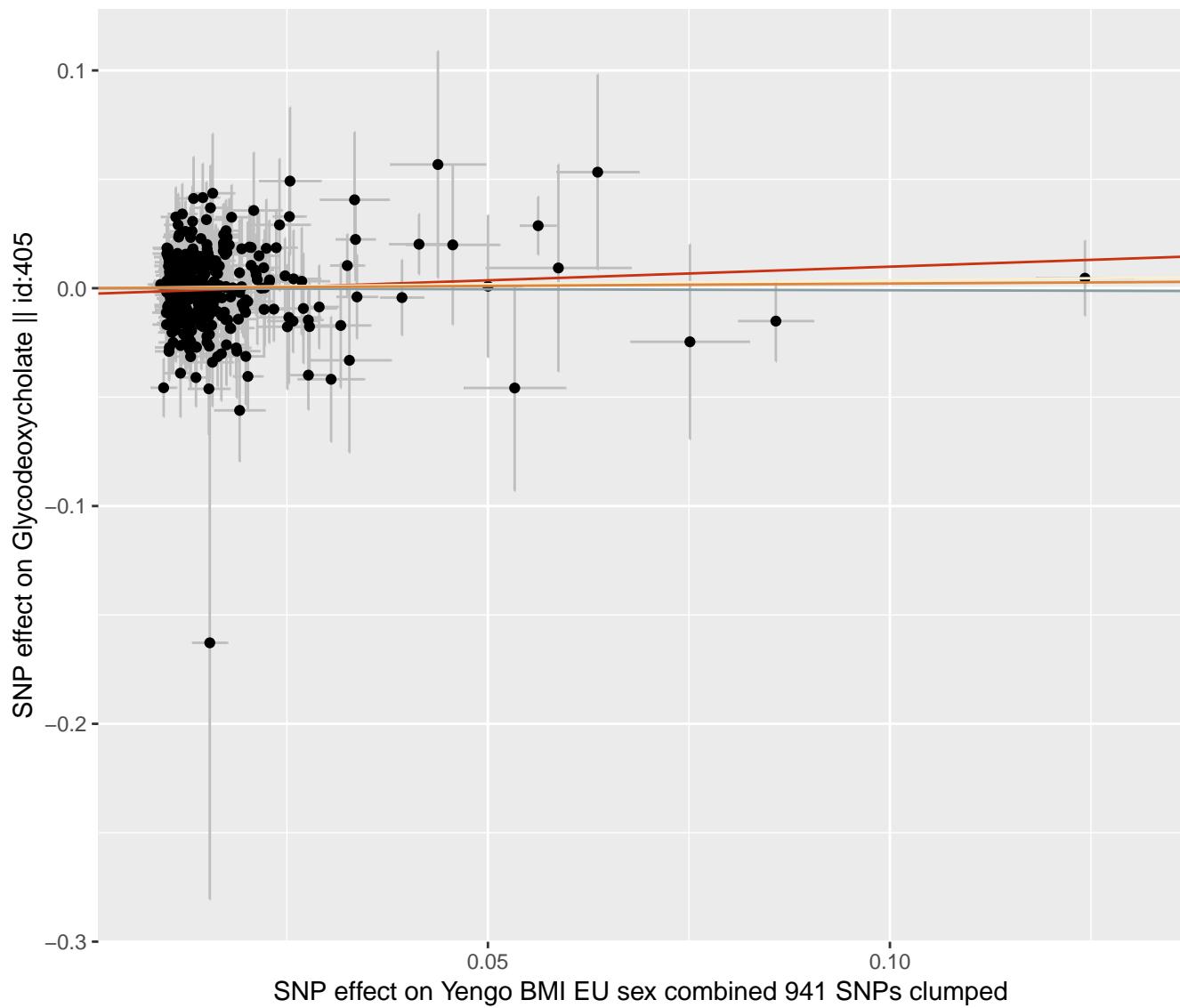
MR Egger



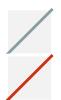
Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



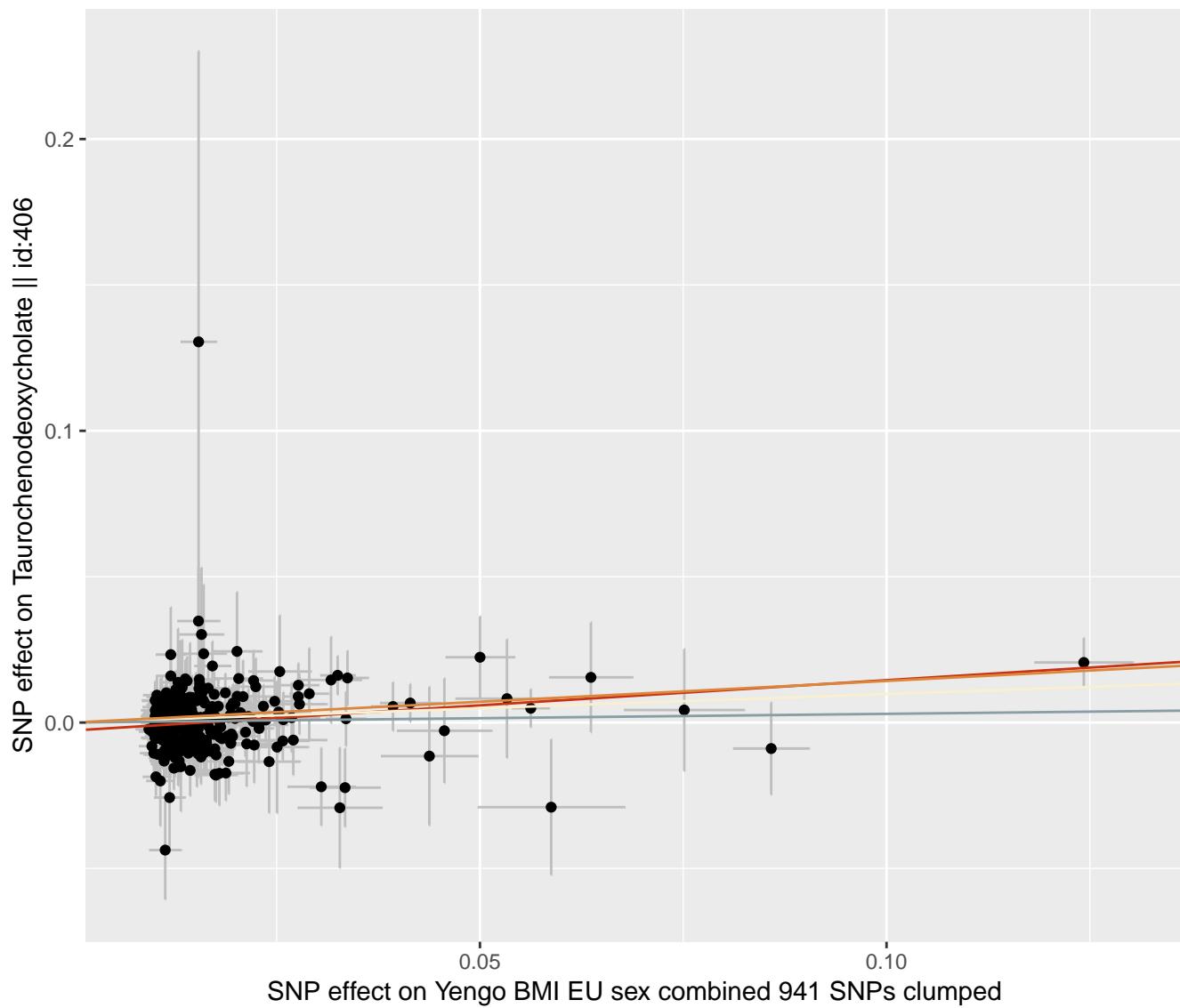
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



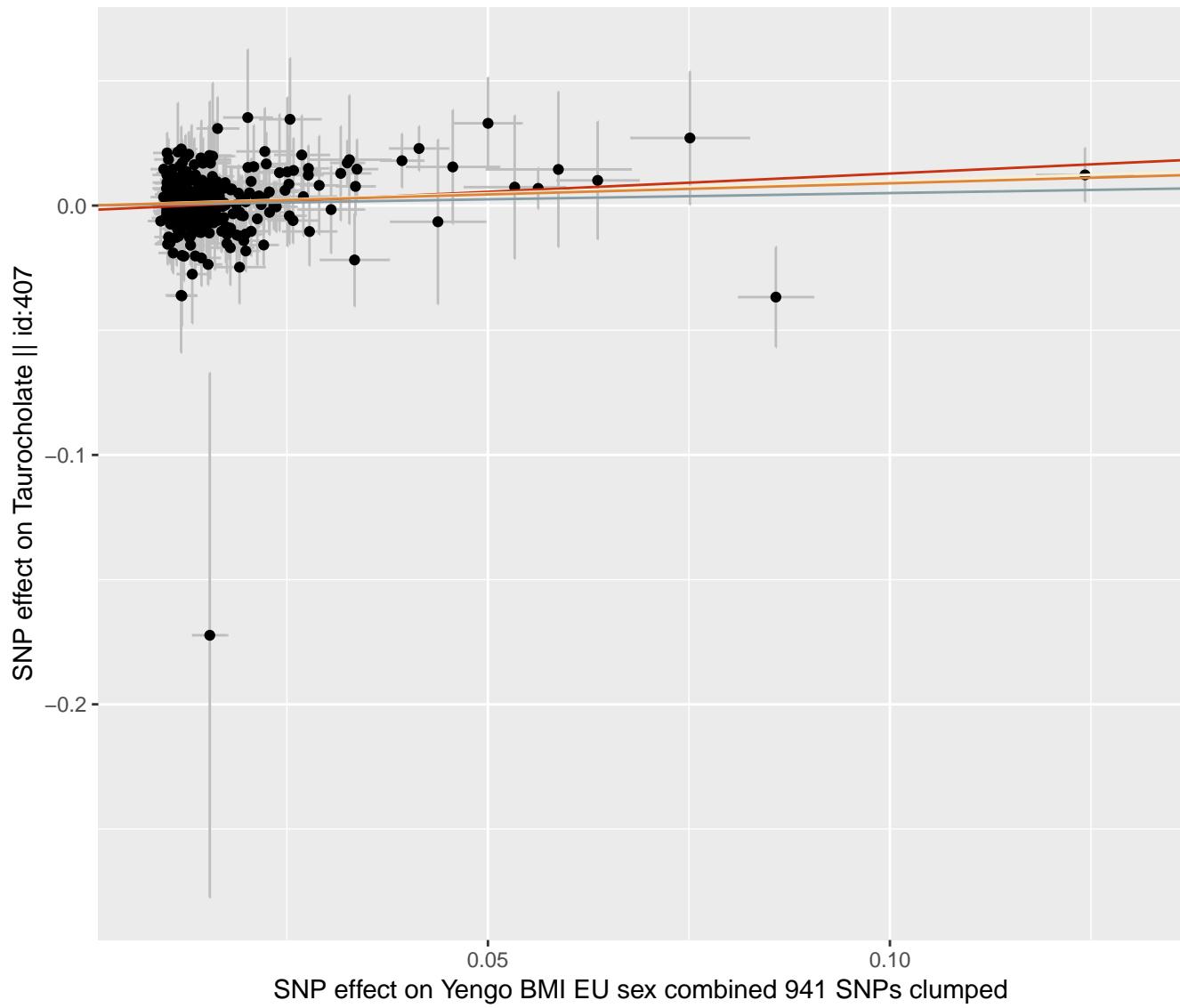
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



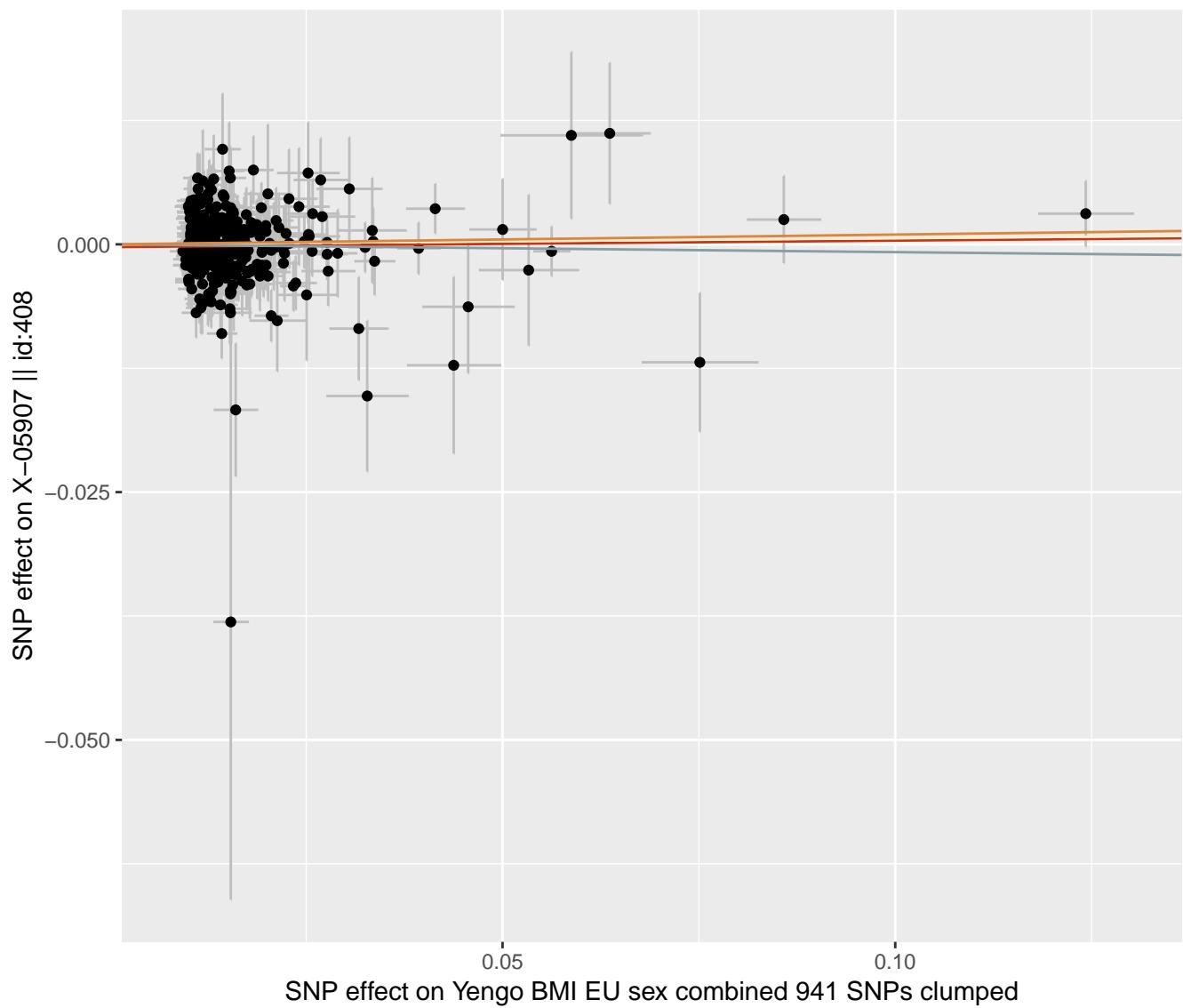
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

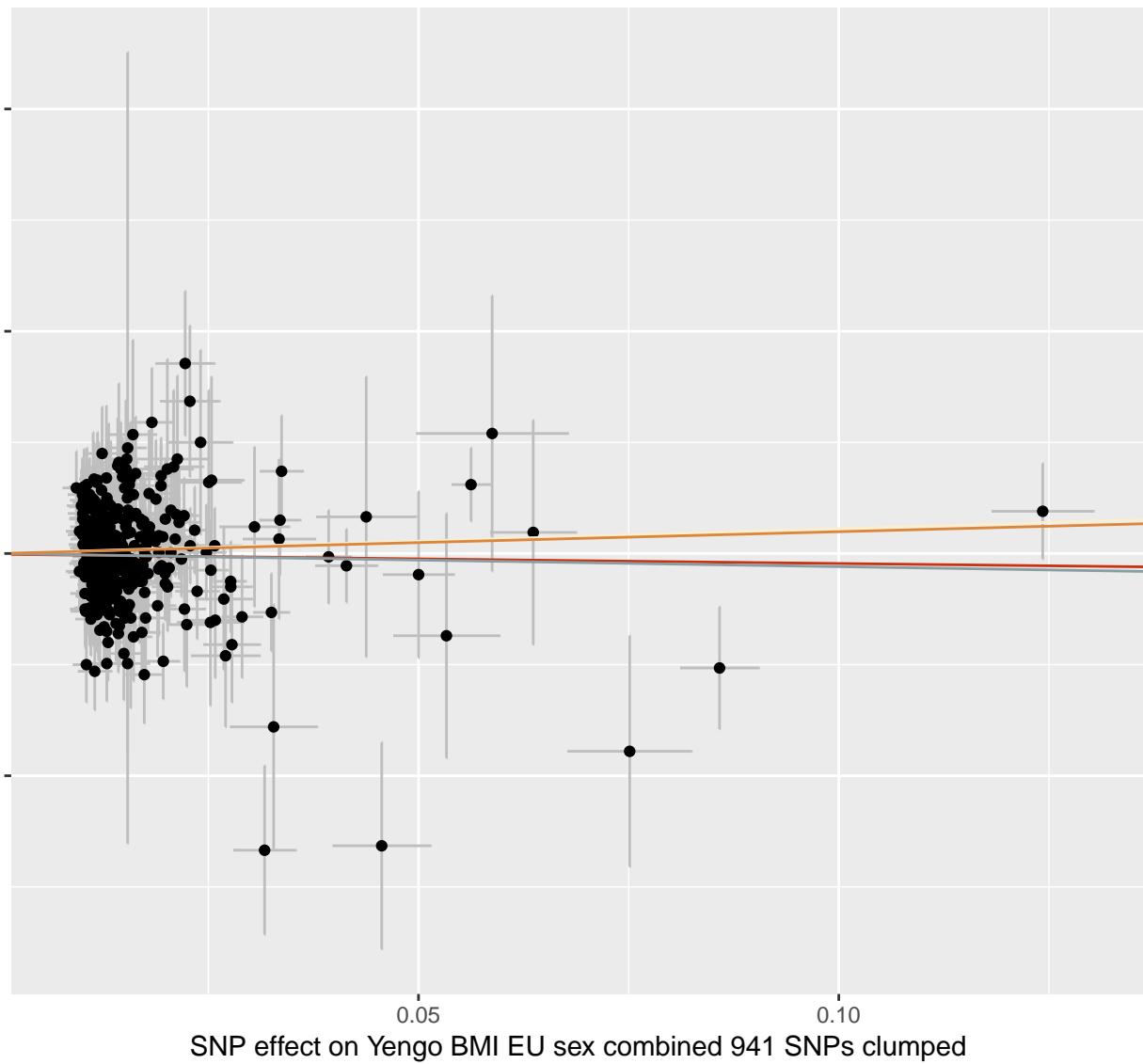


Weighted median



Weighted mode

SNP effect on Docosahexaenoate (DHA; 22:6n3) || id:409



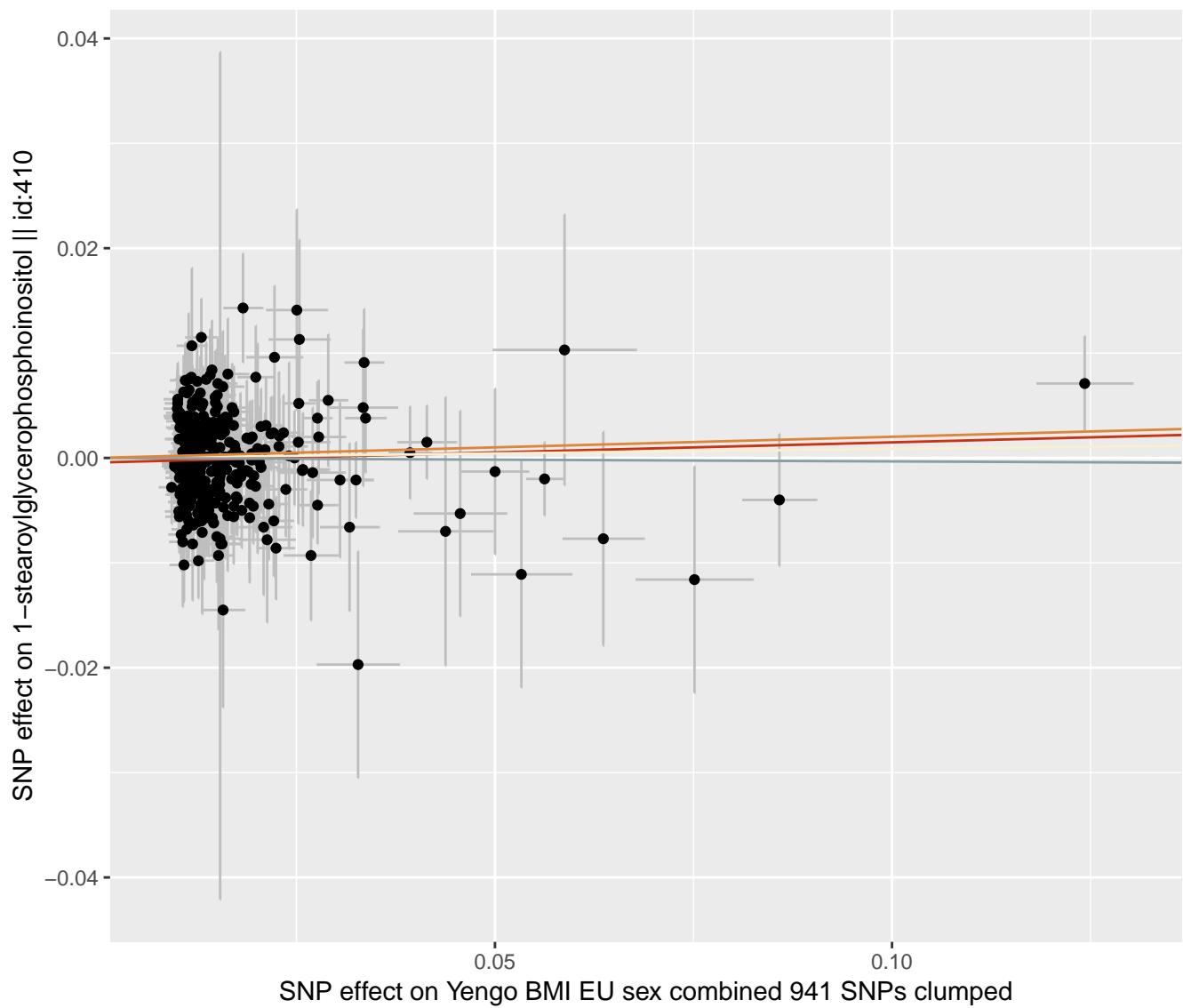
### MR Test

Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



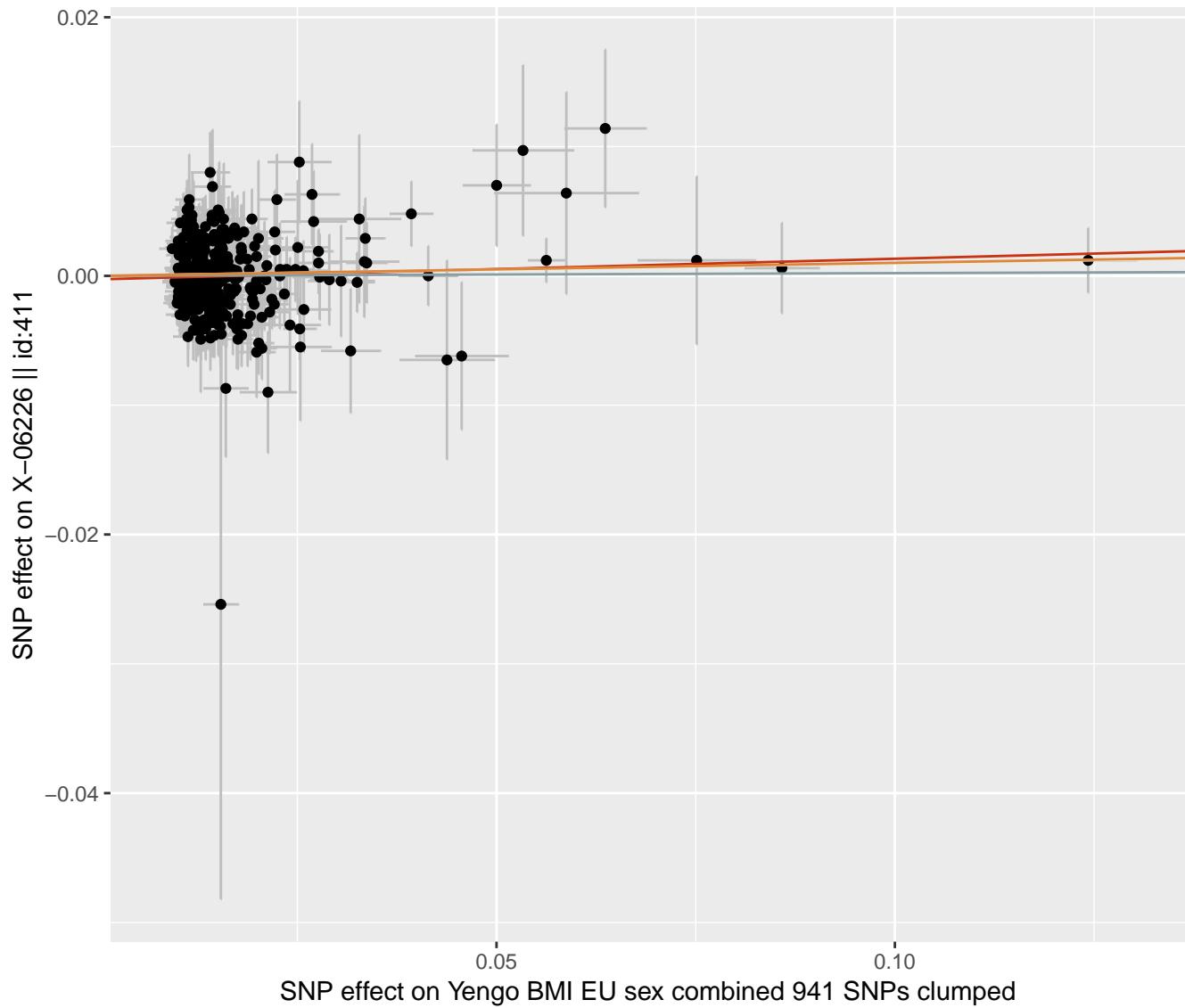
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



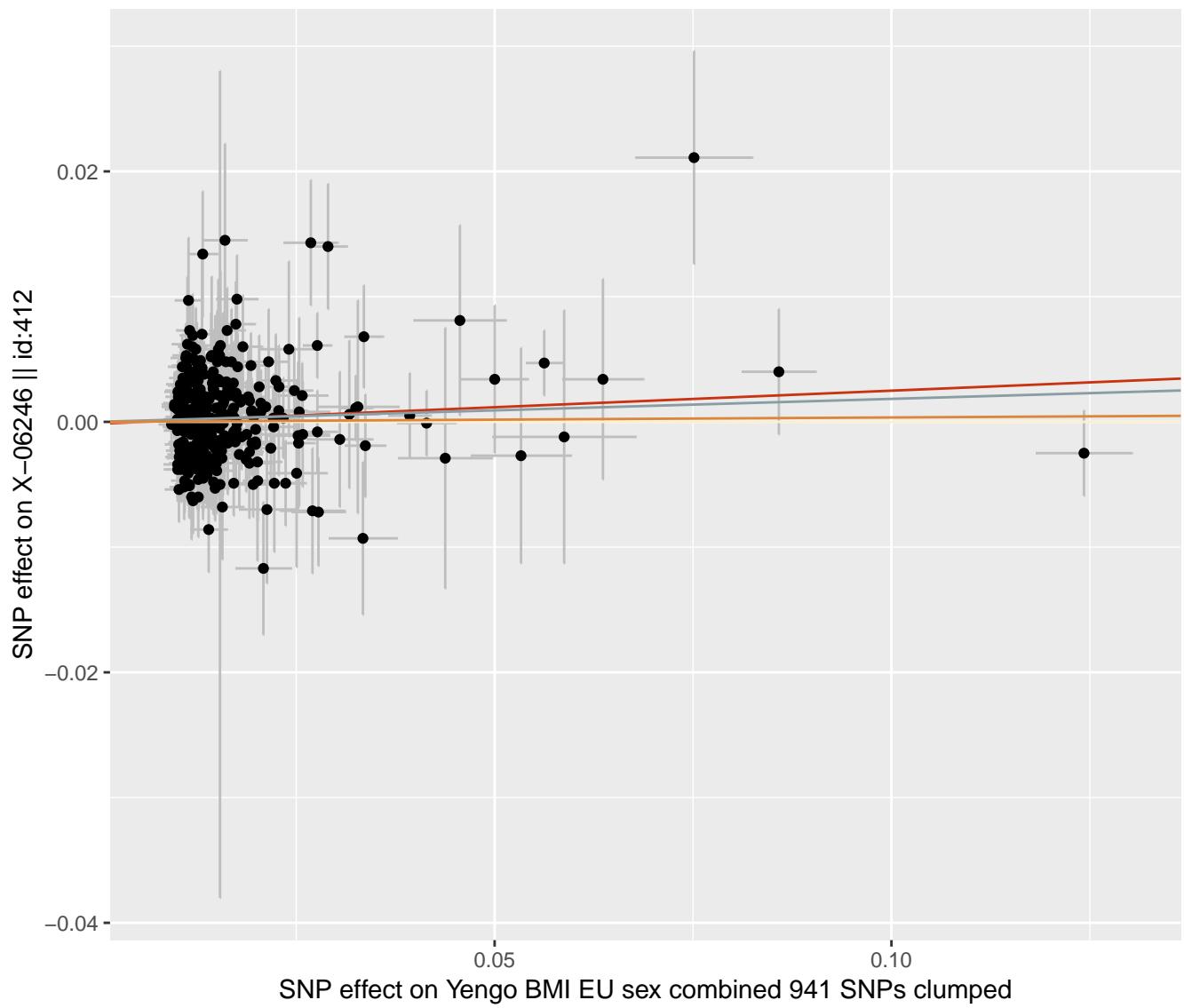
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



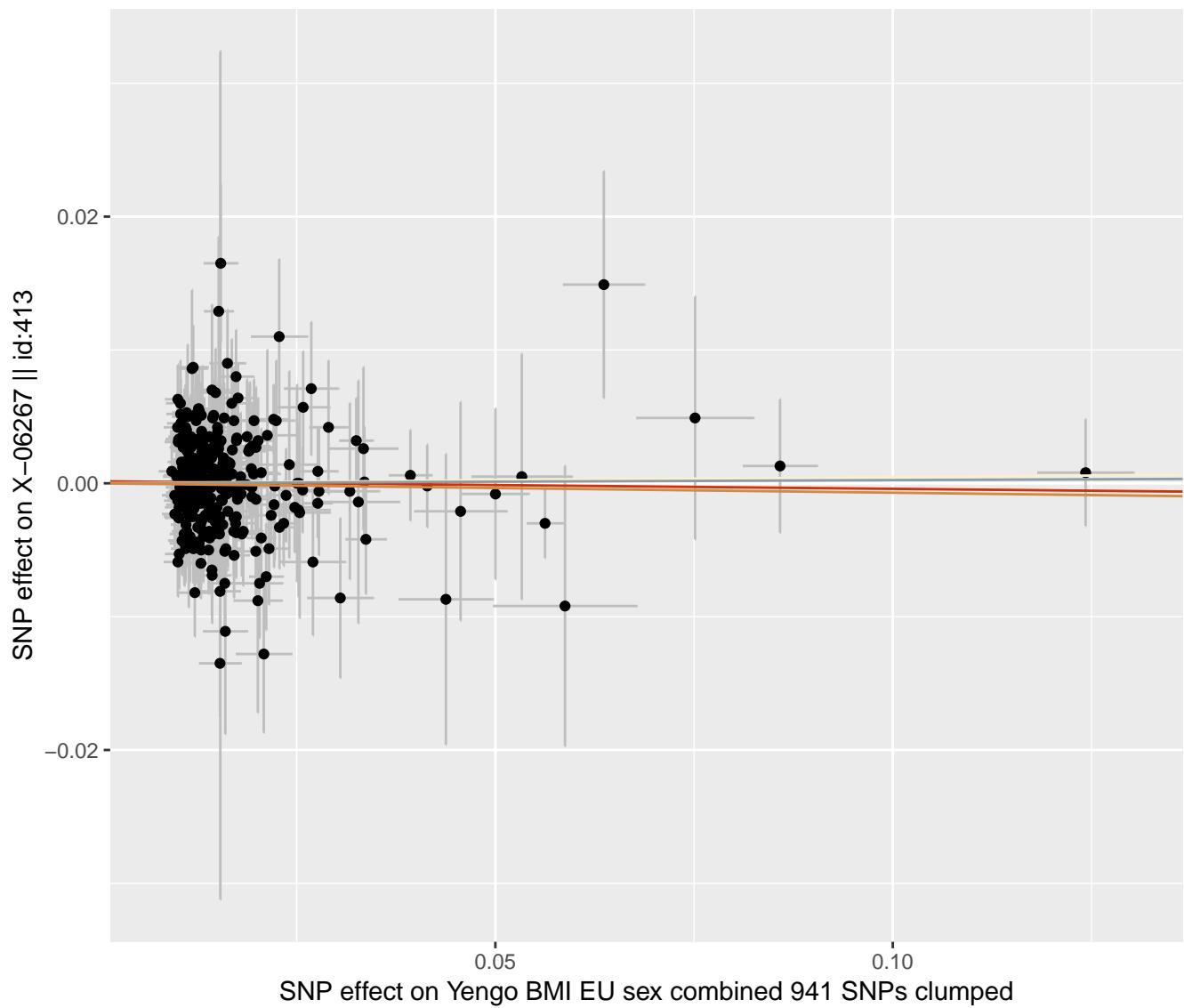
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



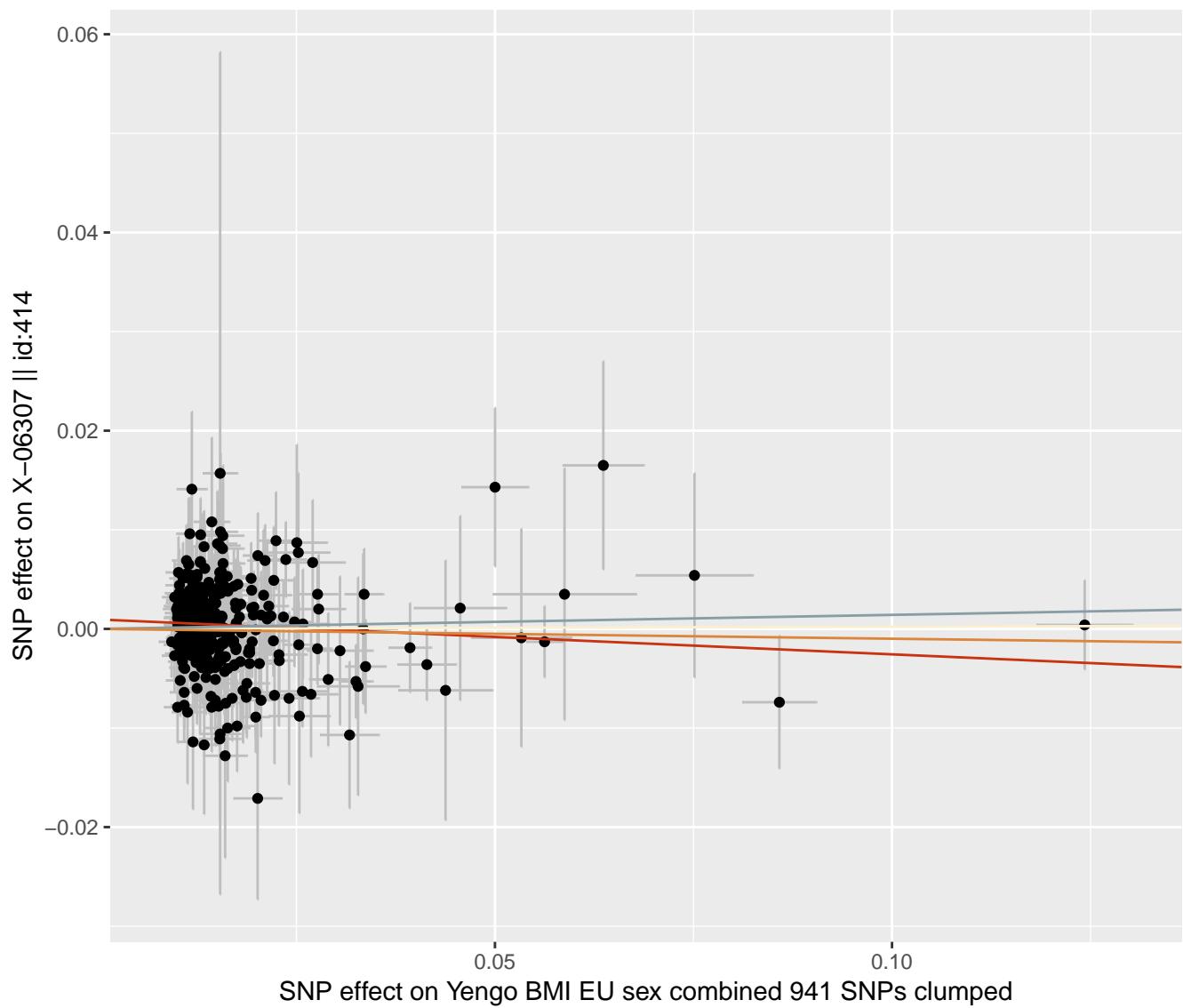
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

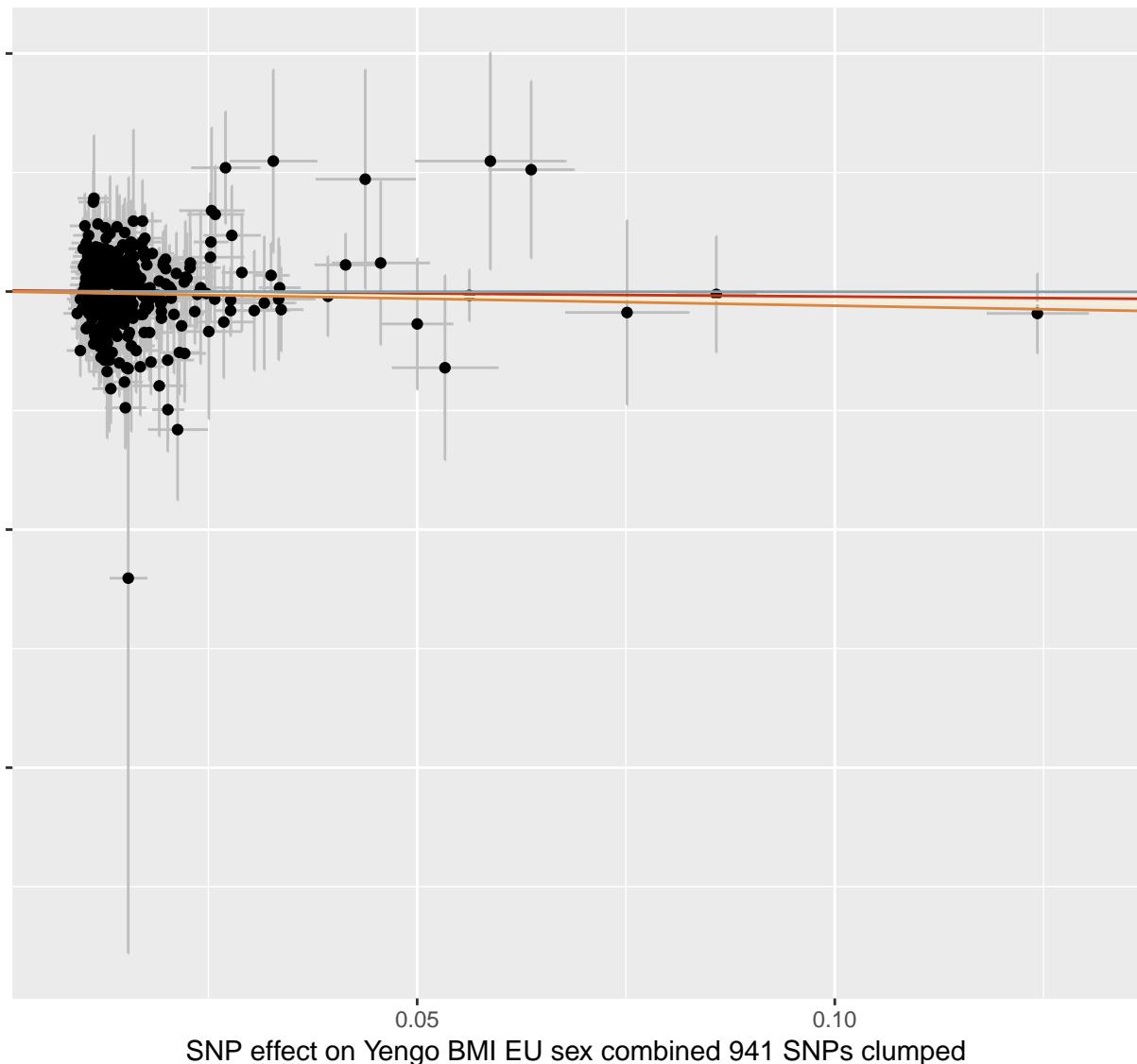


Weighted median



Weighted mode

SNP effect on X-06350 || id:415



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

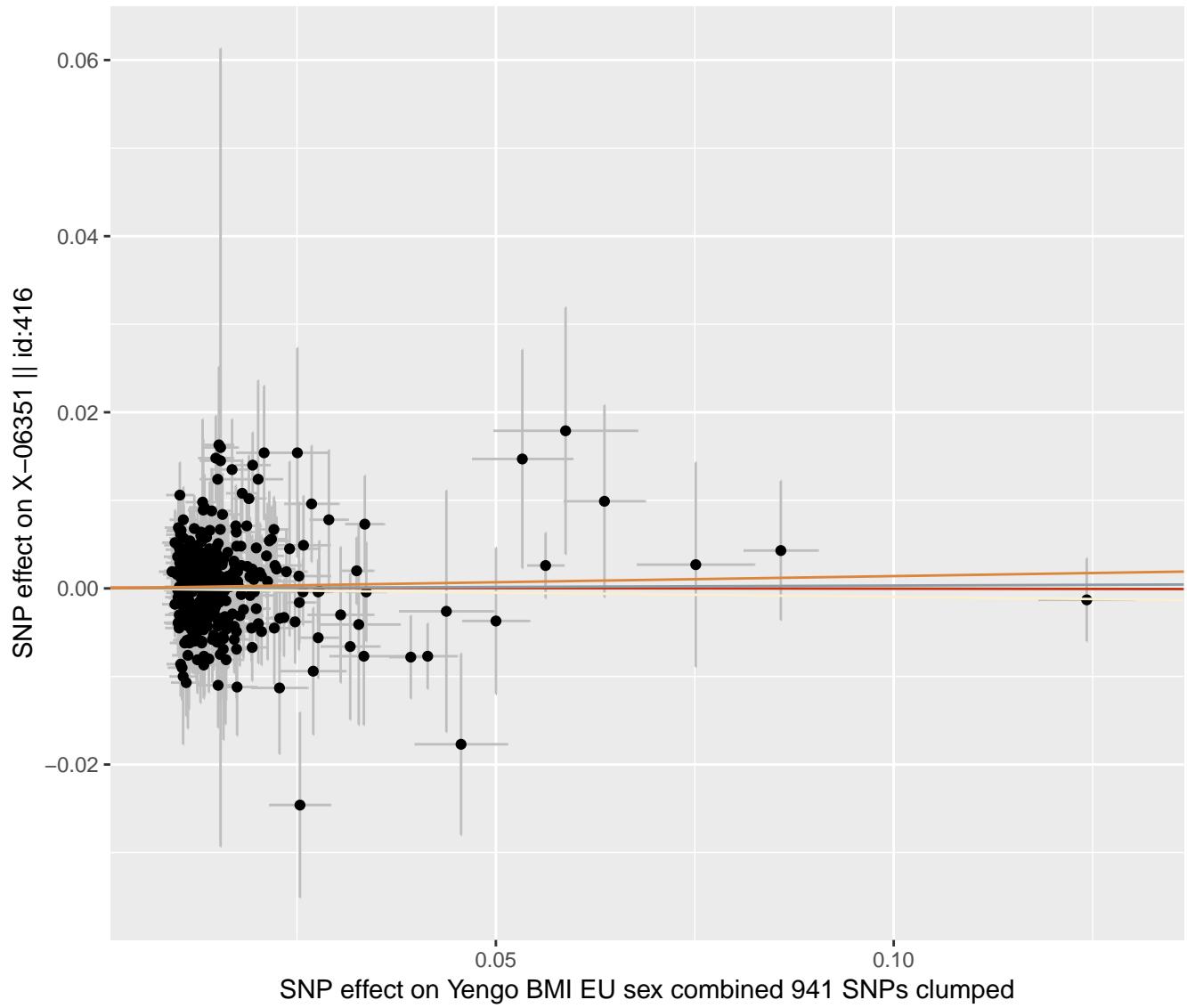
## MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



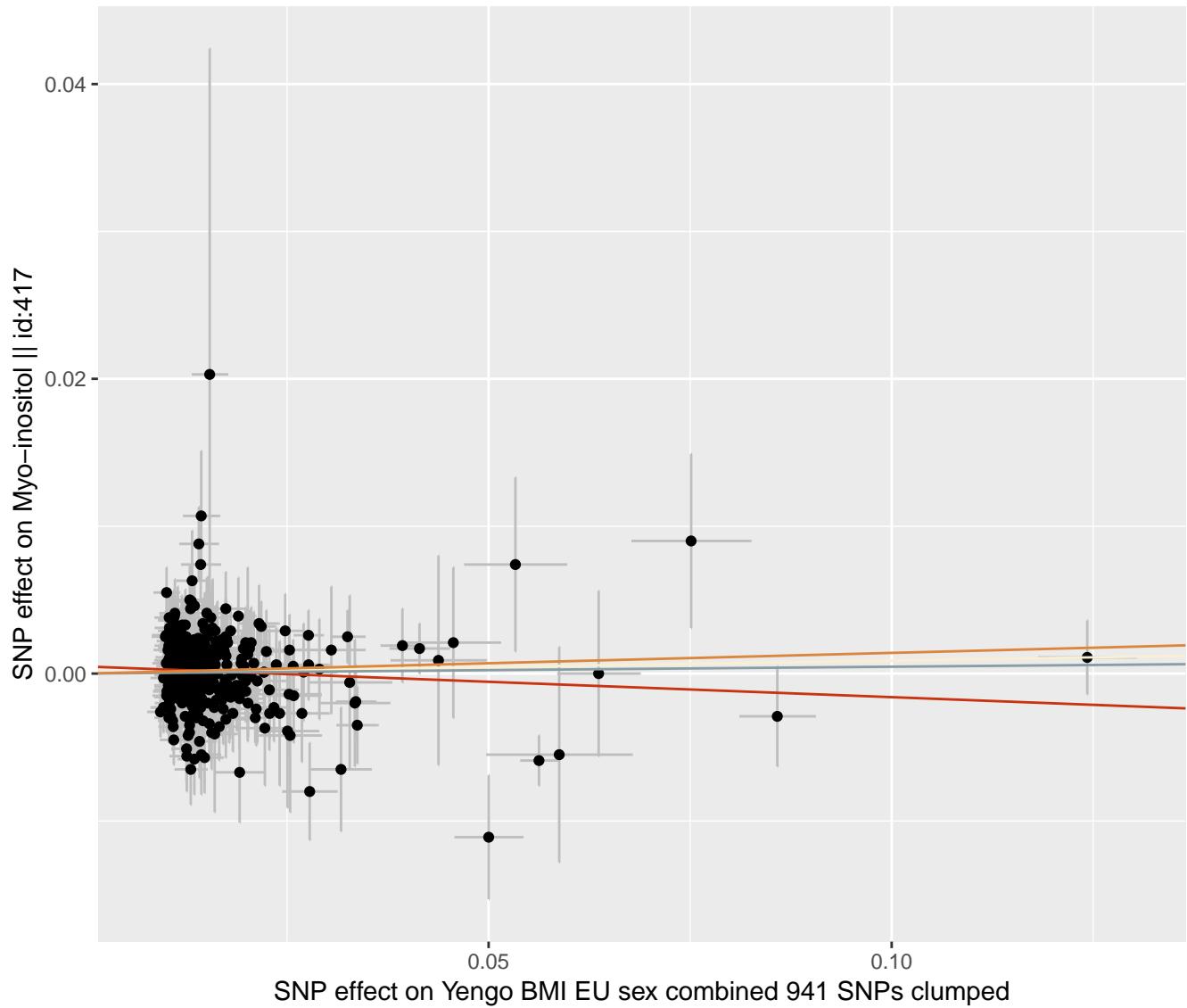
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

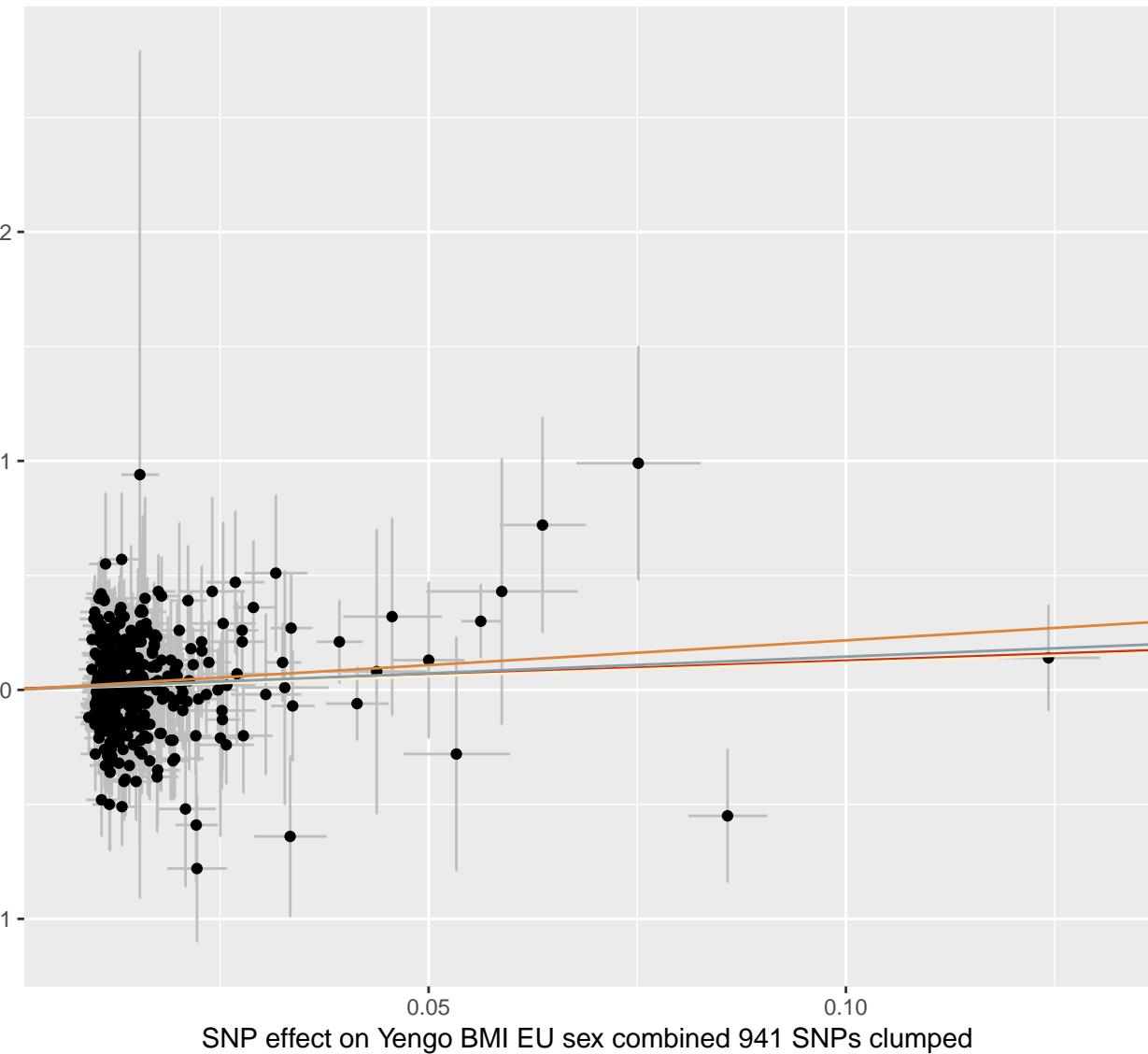


Weighted median



Weighted mode

SNP effect on Glucose || id:418



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

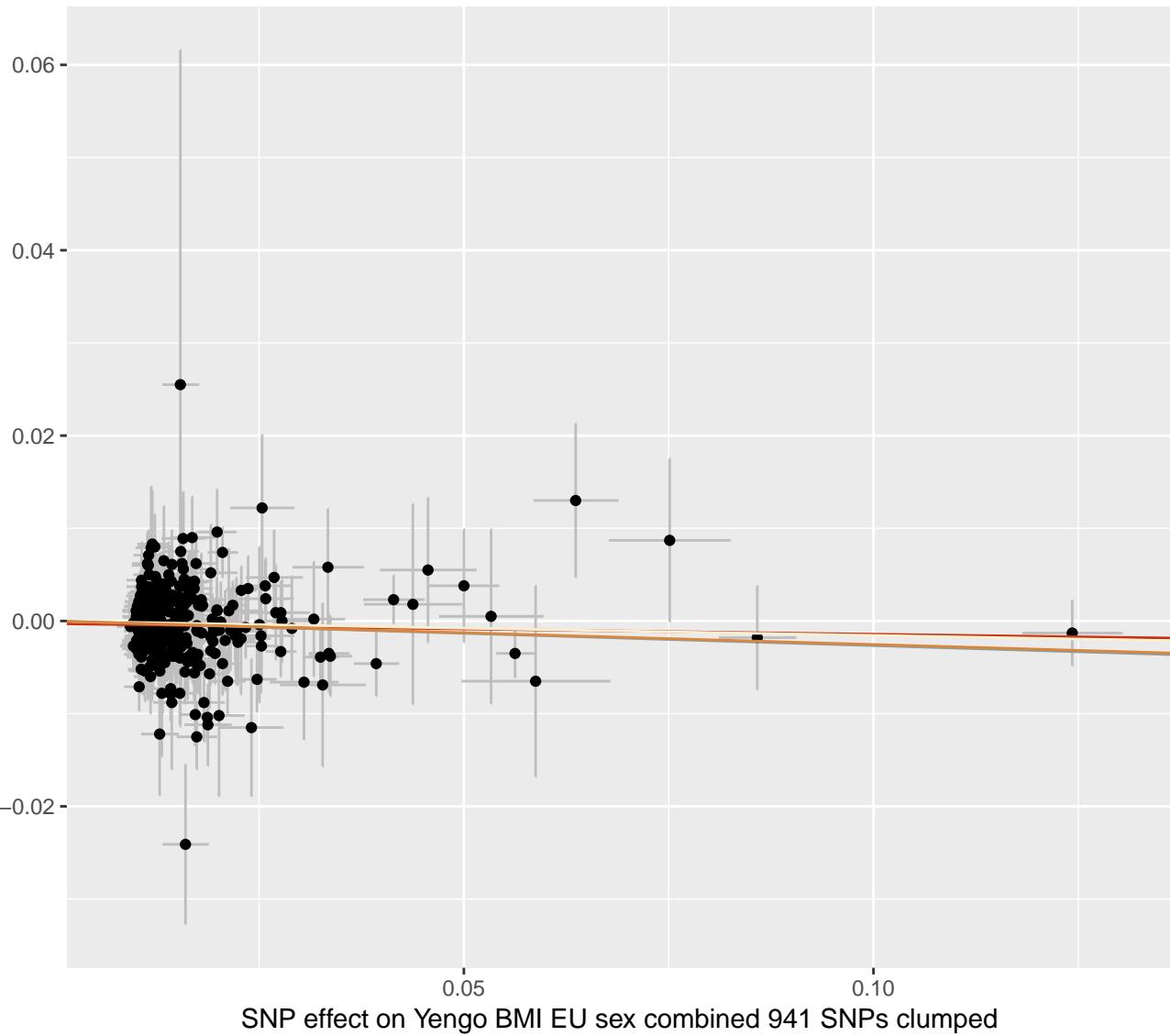


Weighted median



Weighted mode

SNP effect on 1,5-anhydroglucitol (1,5-AG) || id:419



### MR Test



Inverse variance weighted (multiplicative random effects)



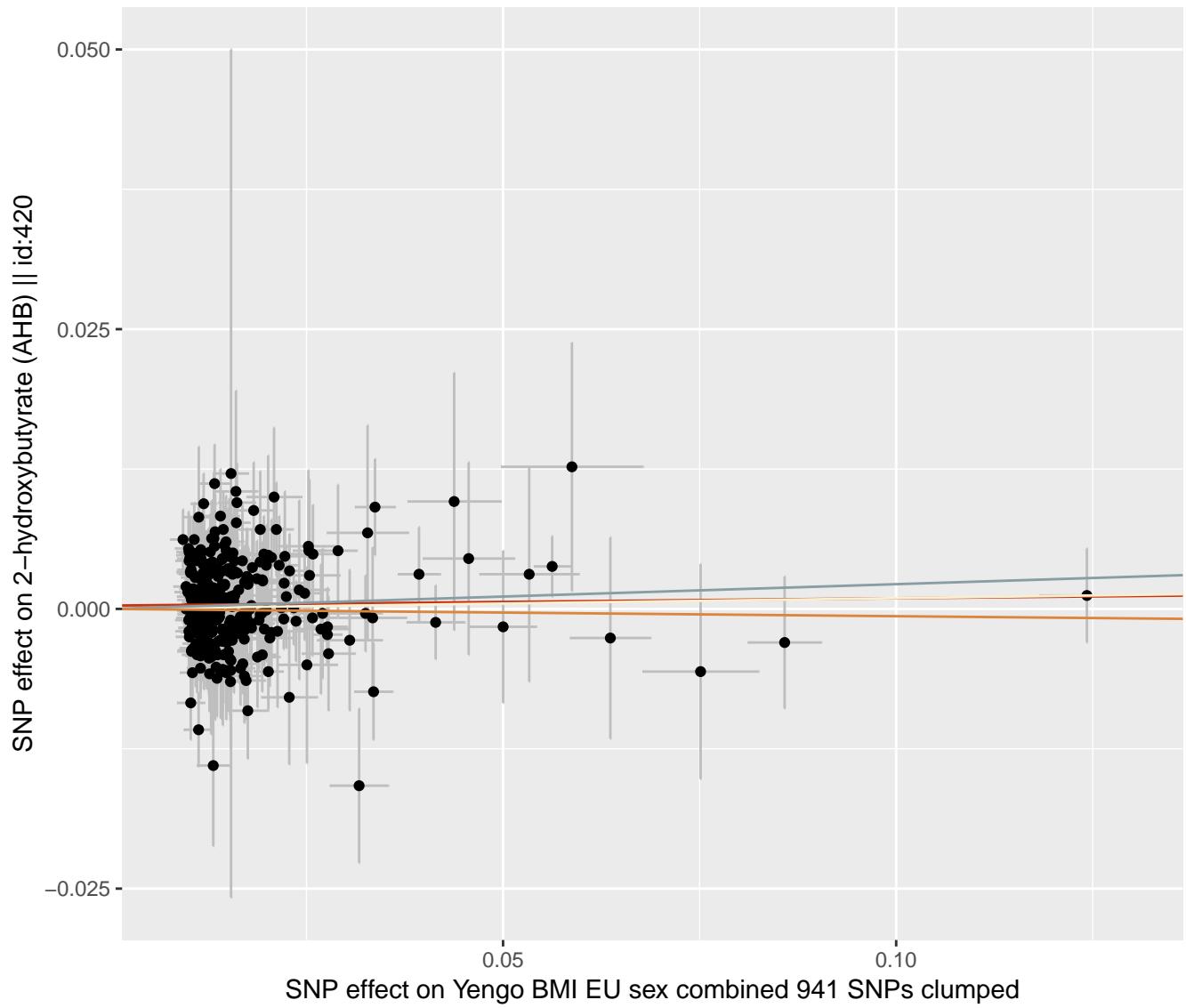
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



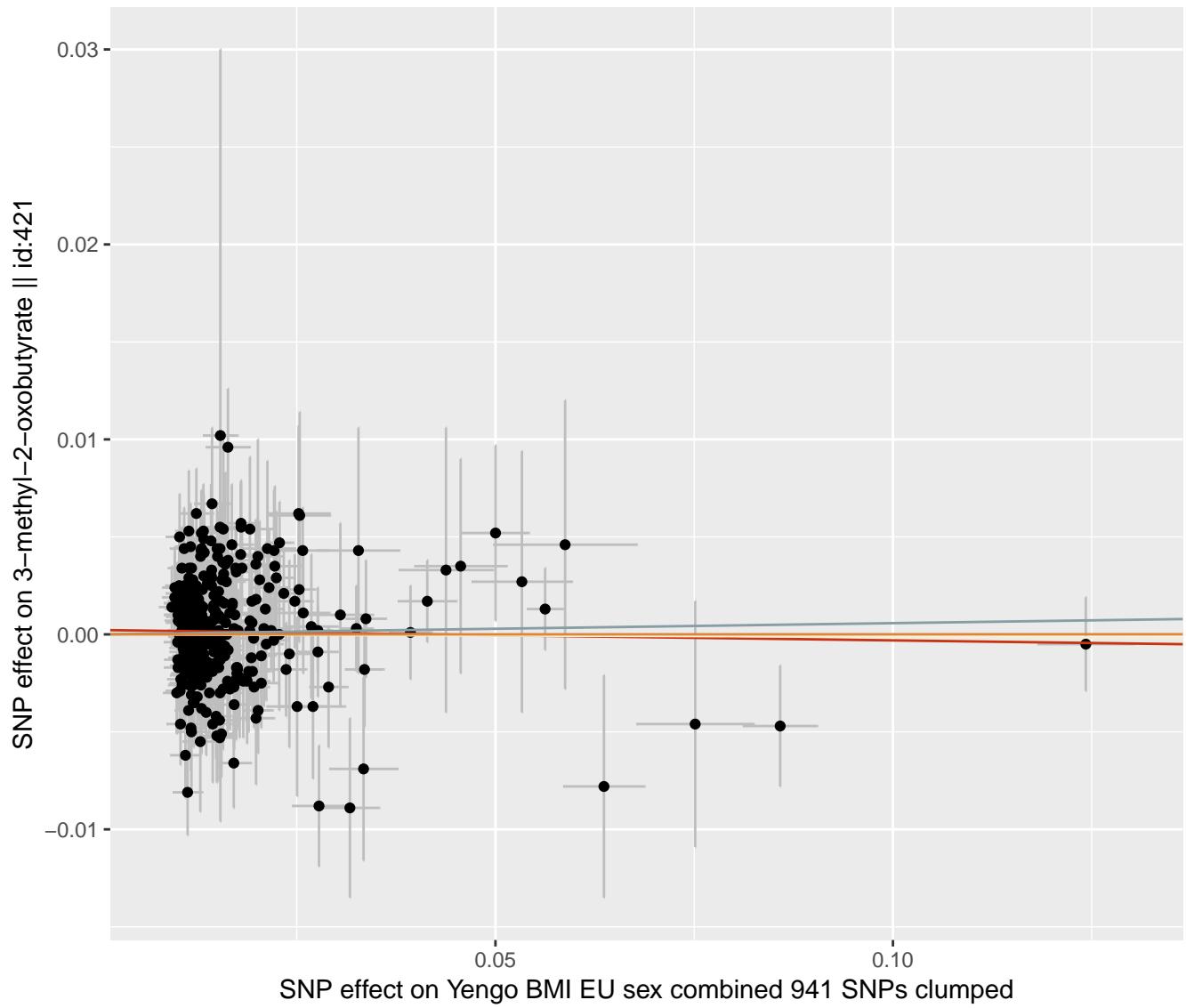
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



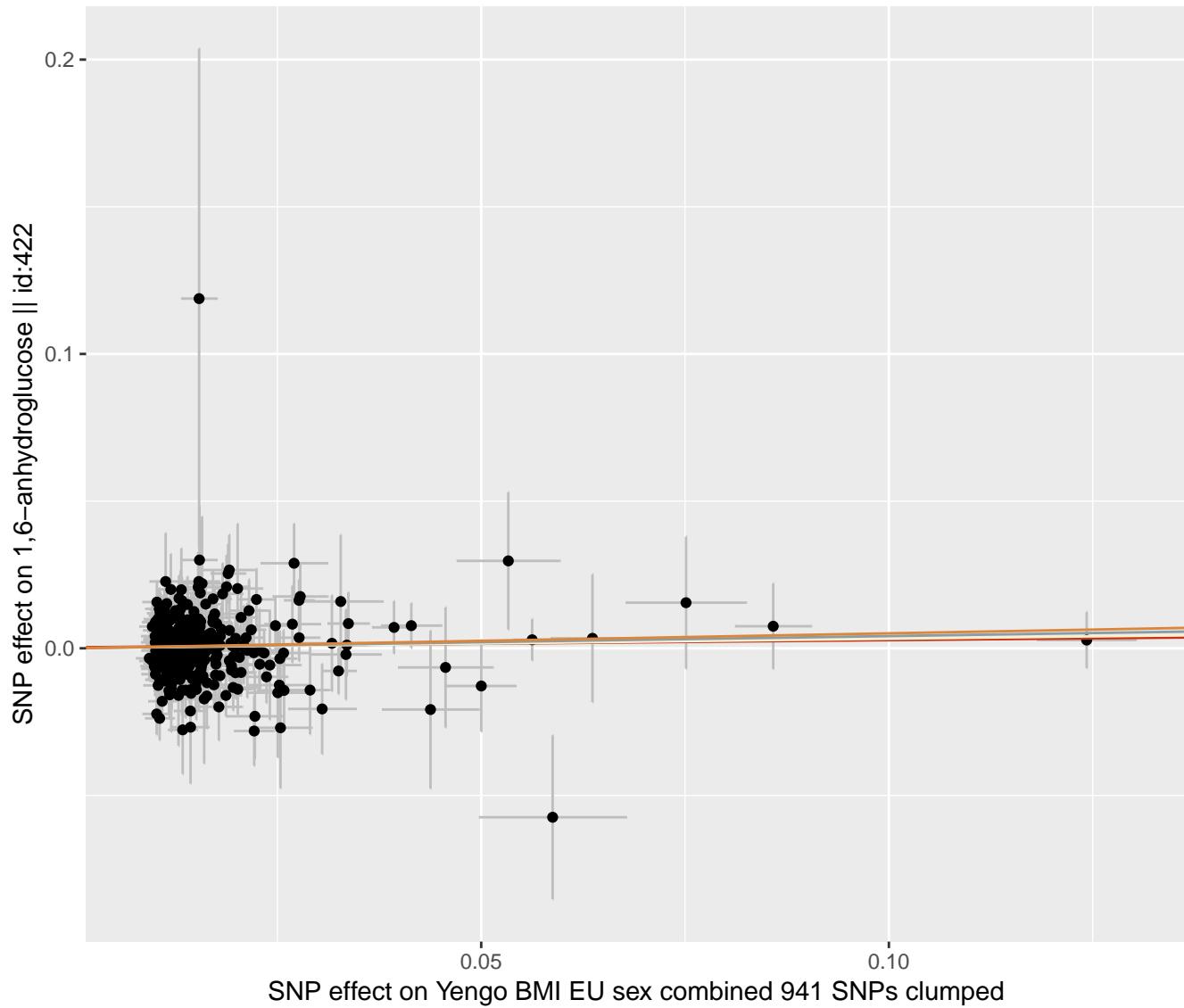
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

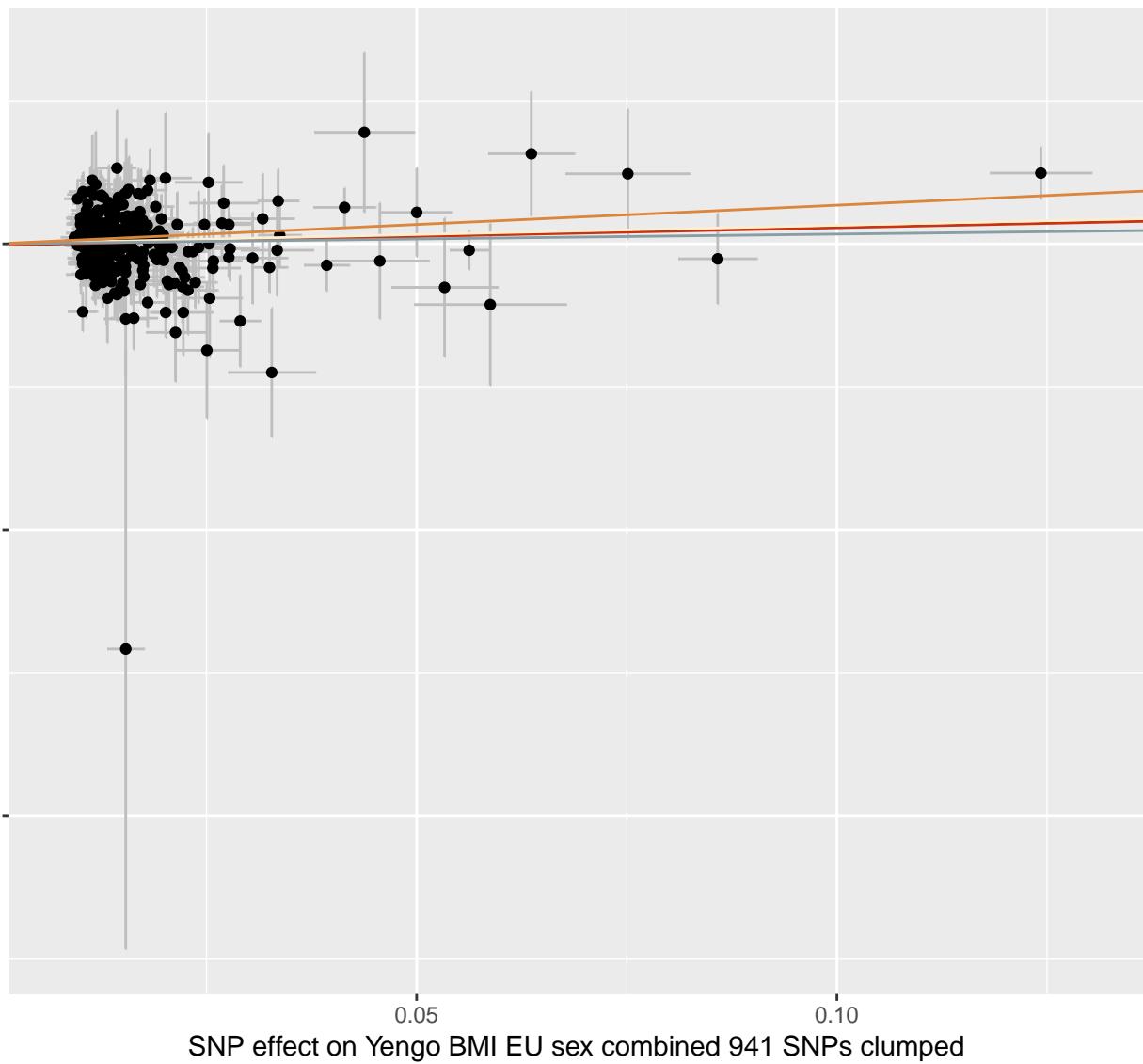


Weighted median



Weighted mode

SNP effect on 1-palmitoylglycerol (1-monopalmitin) || id:423



### MR Test

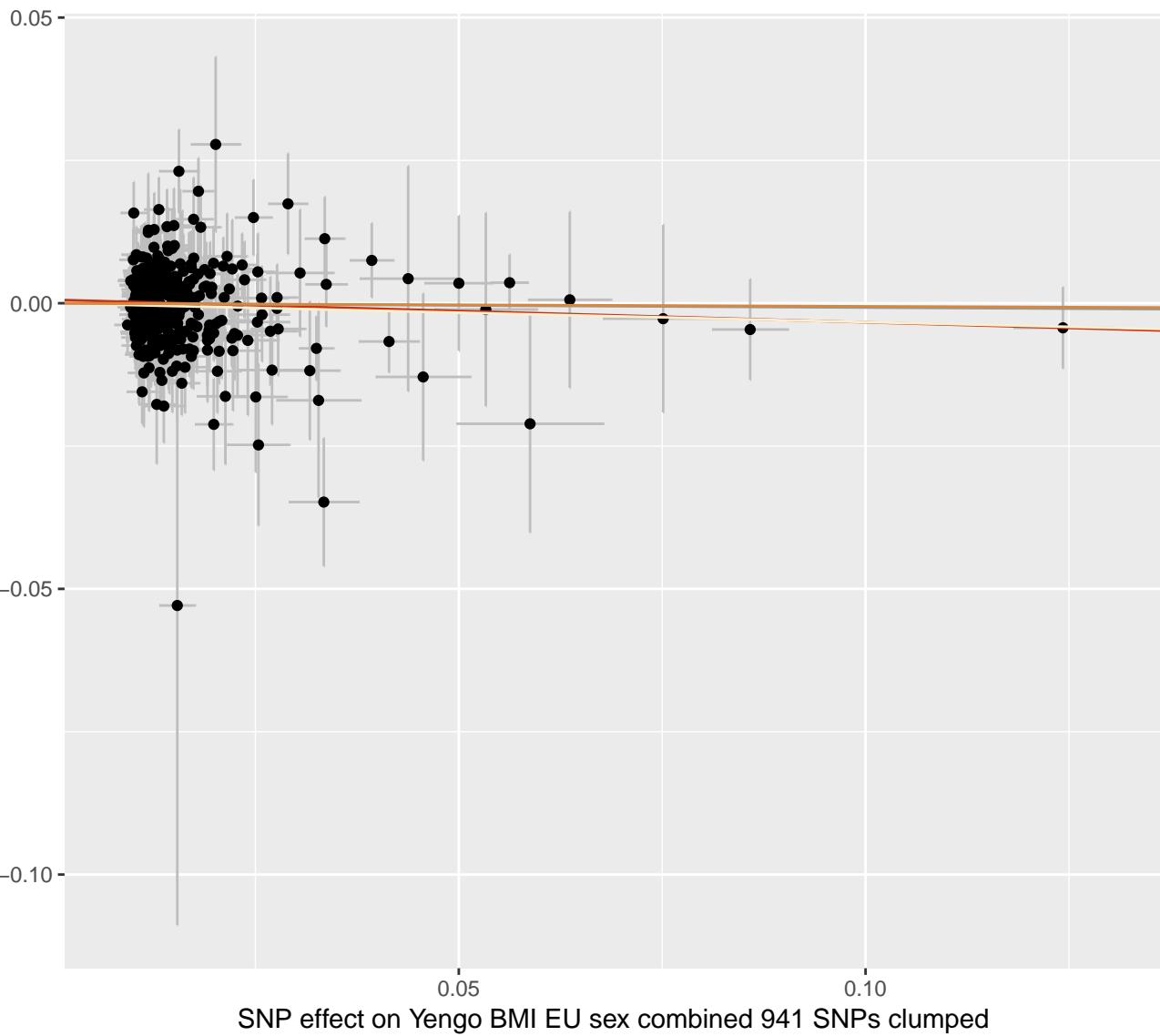
 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode

SNP effect on 1-oleoylglycerol (1-monoolein) || id:424



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



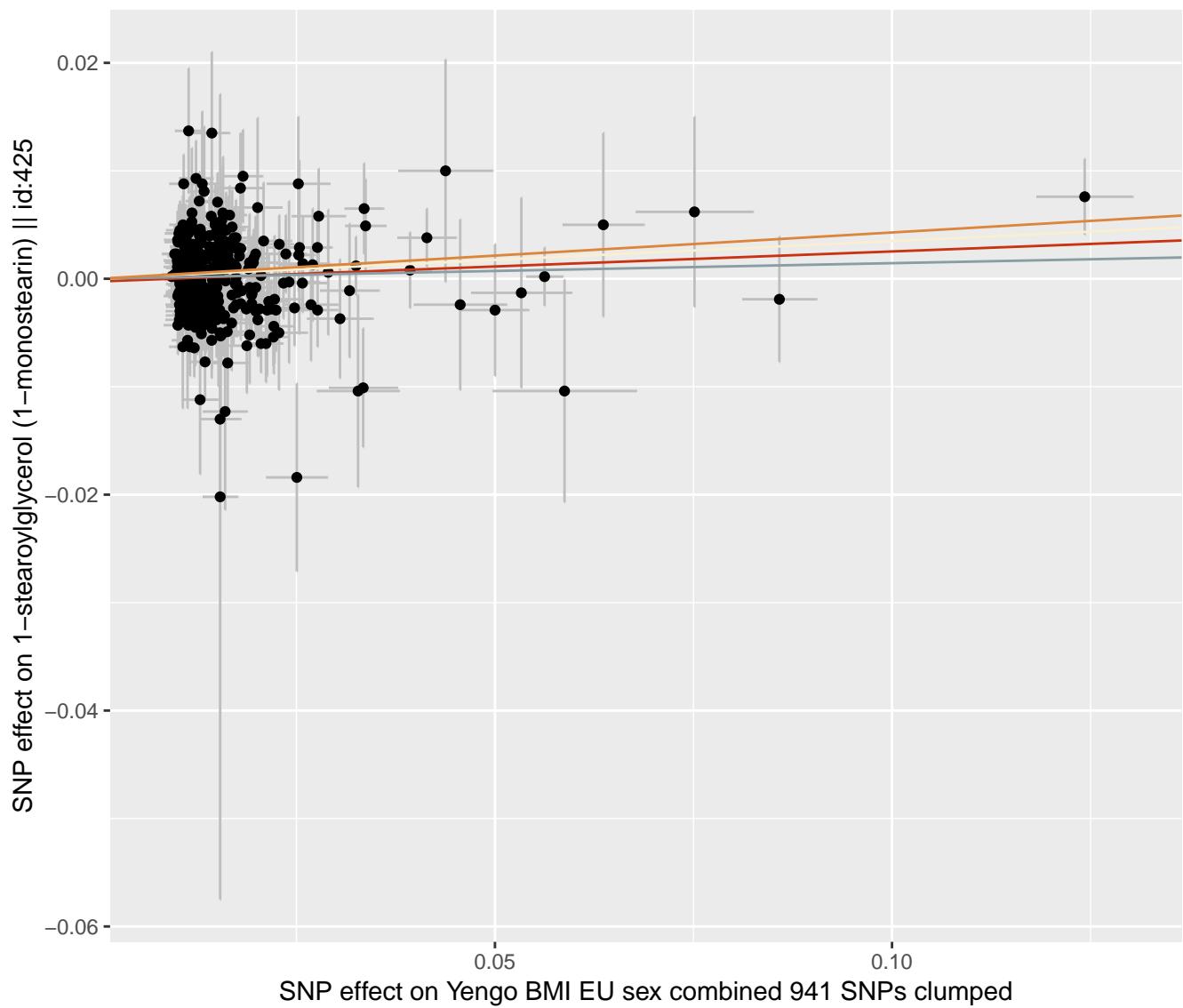
MR Egger



Weighted median

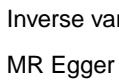


Weighted mode



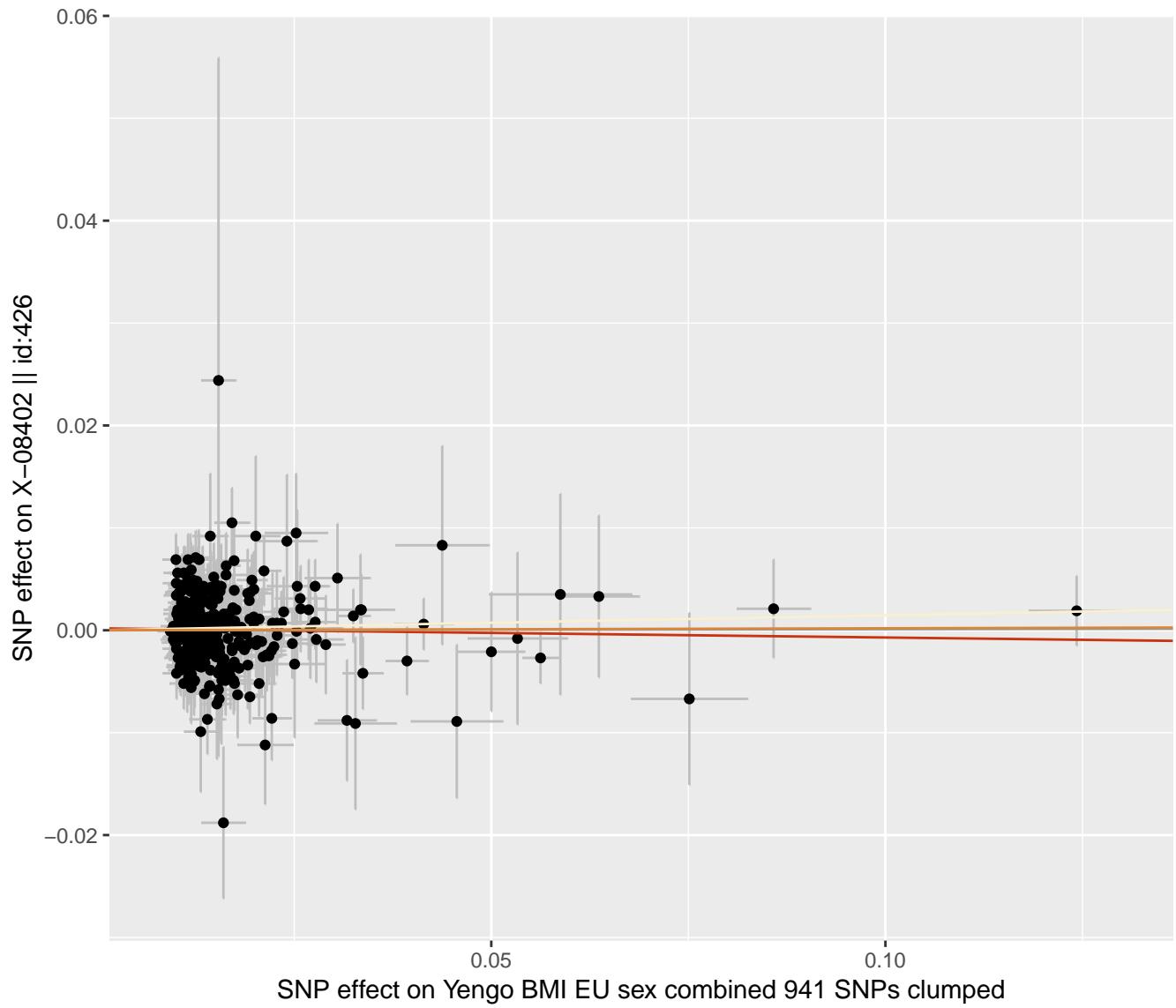
## MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



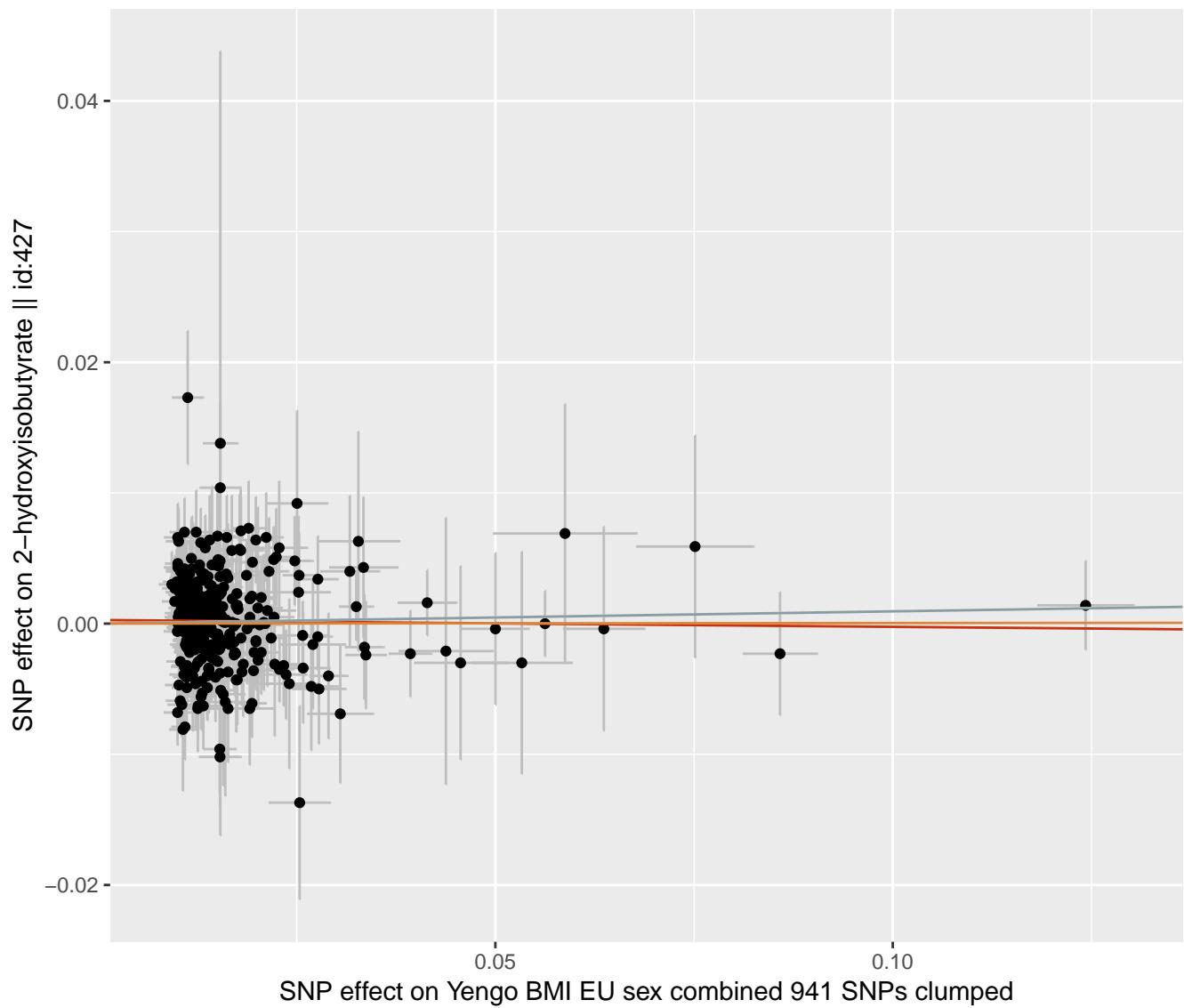
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



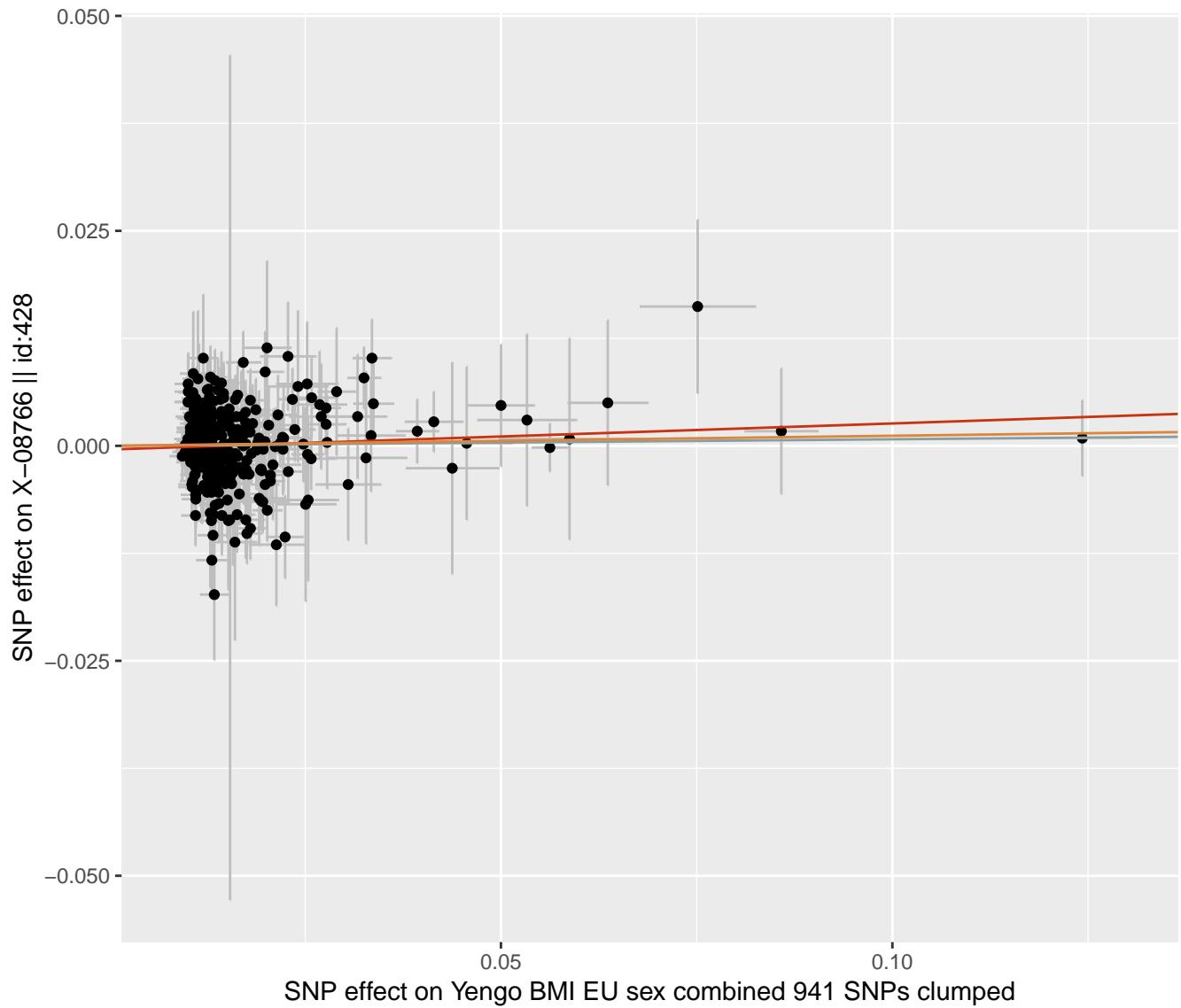
MR Egger



Weighted median



Weighted mode



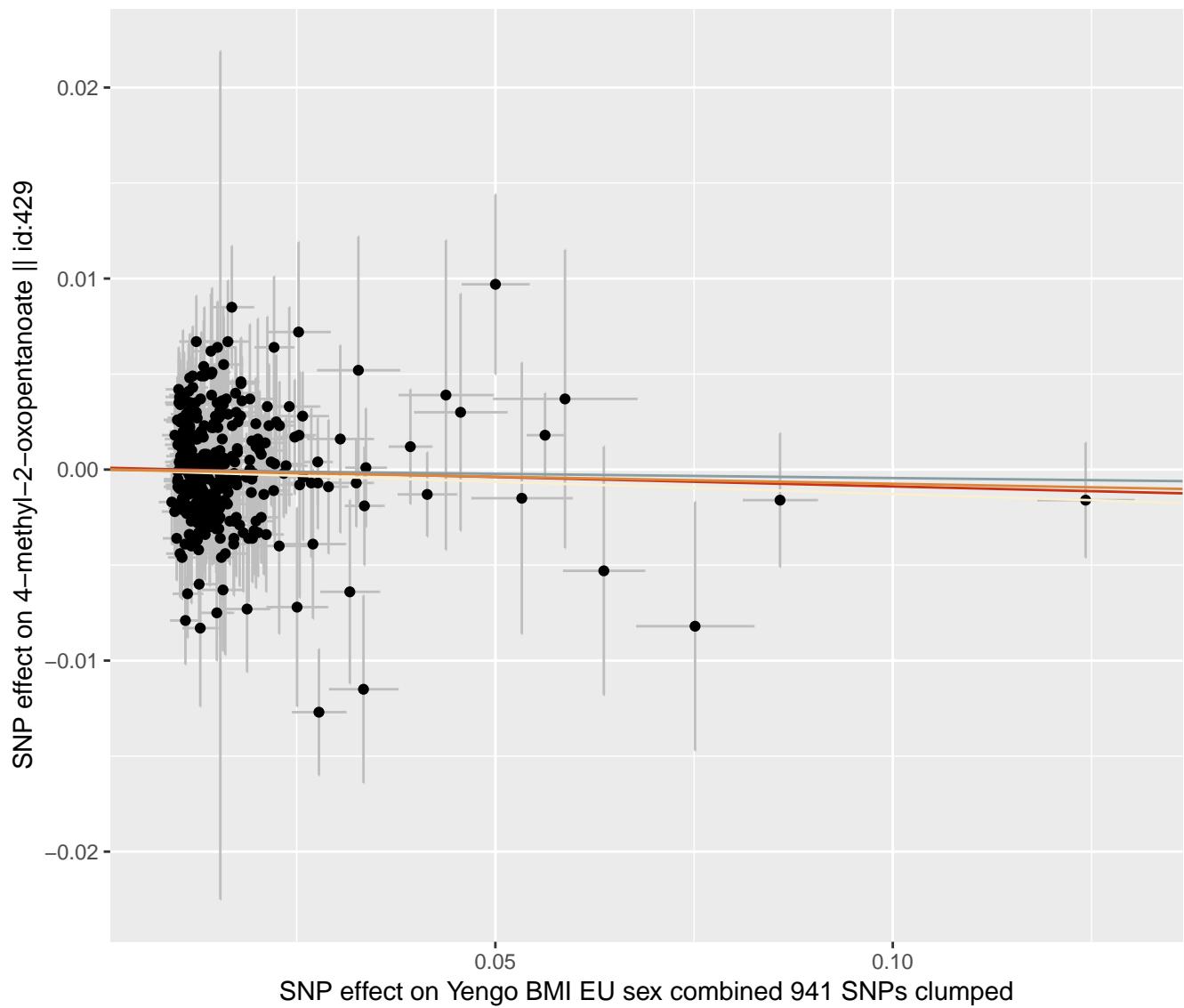
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



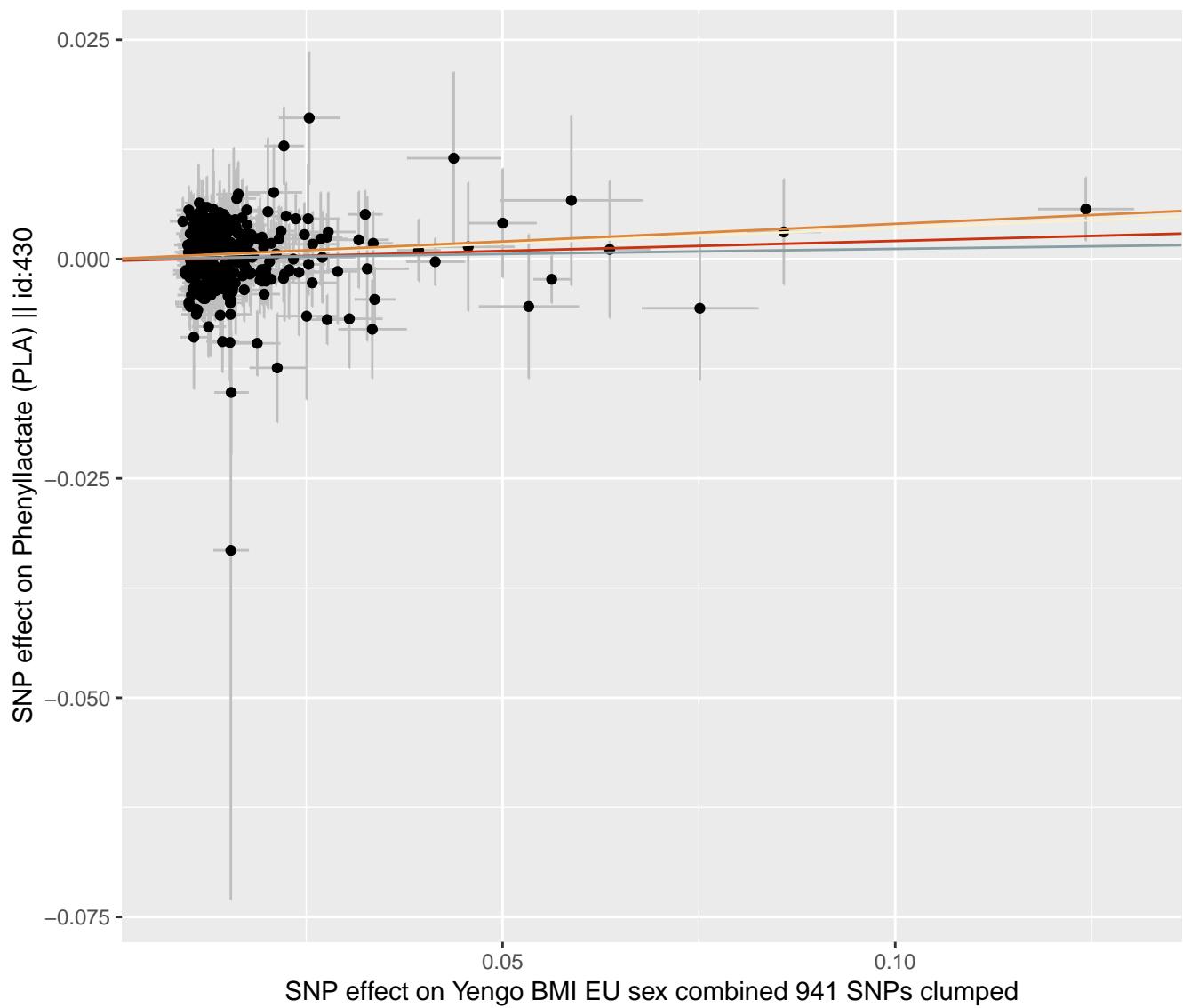
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



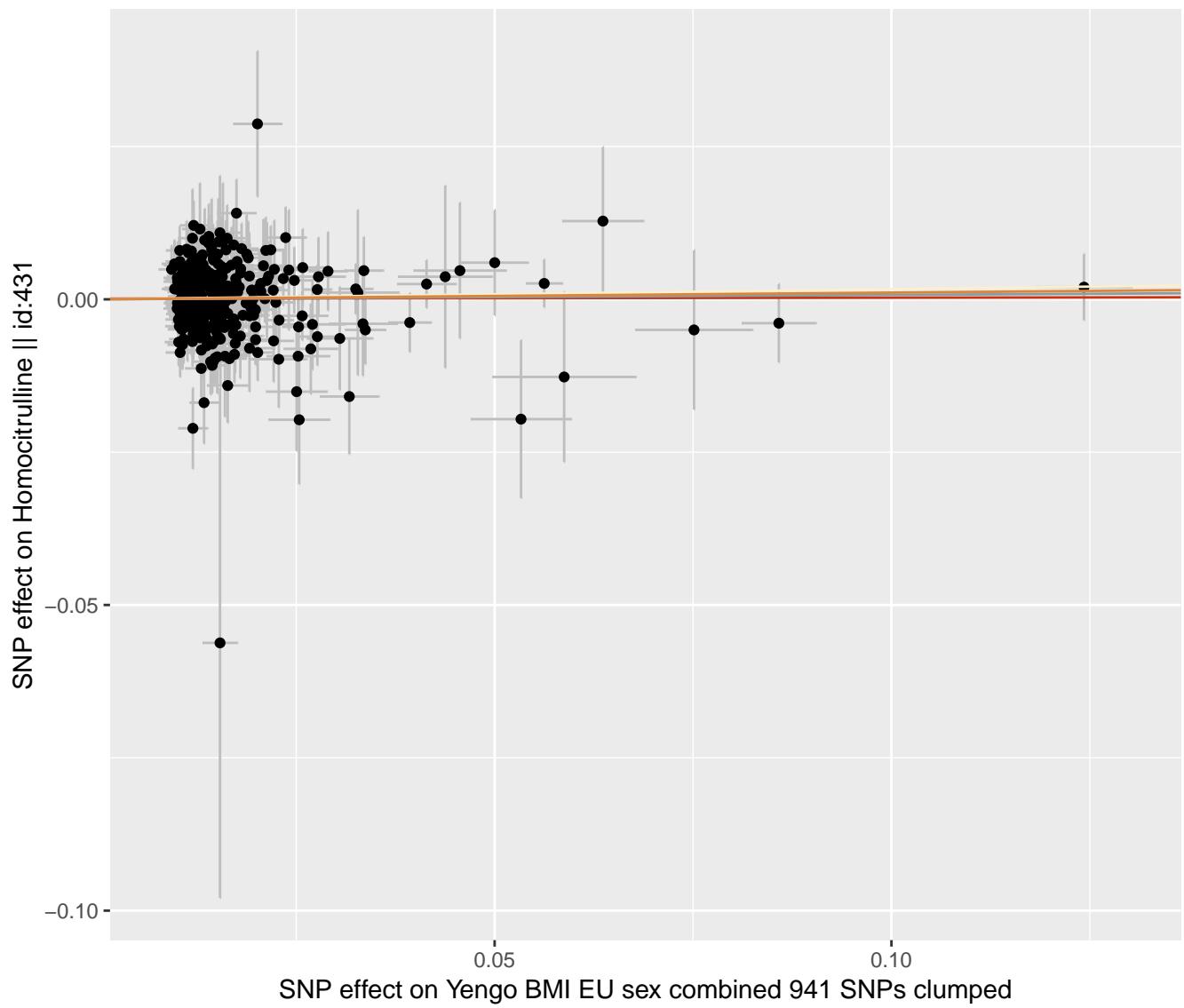
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



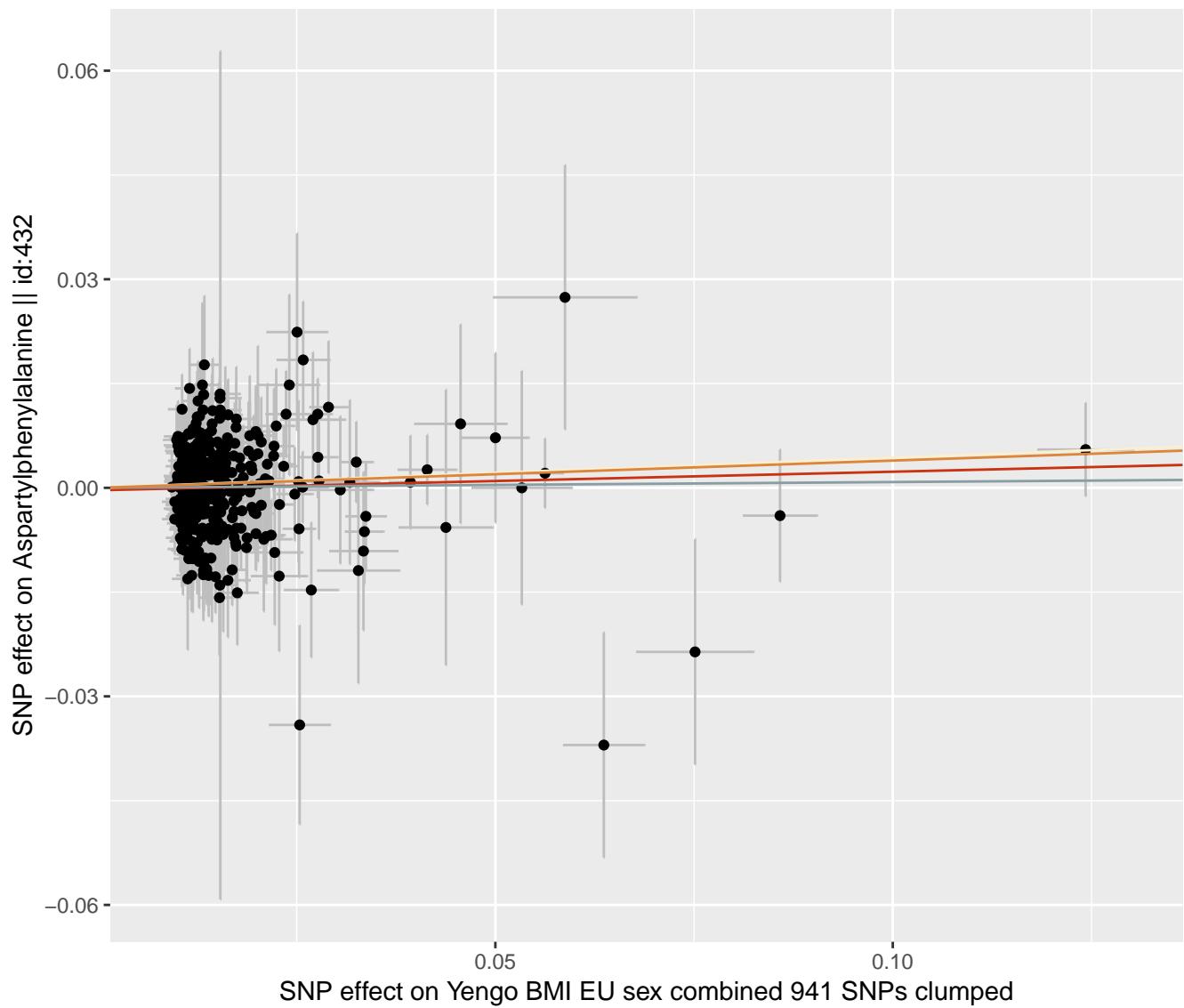
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

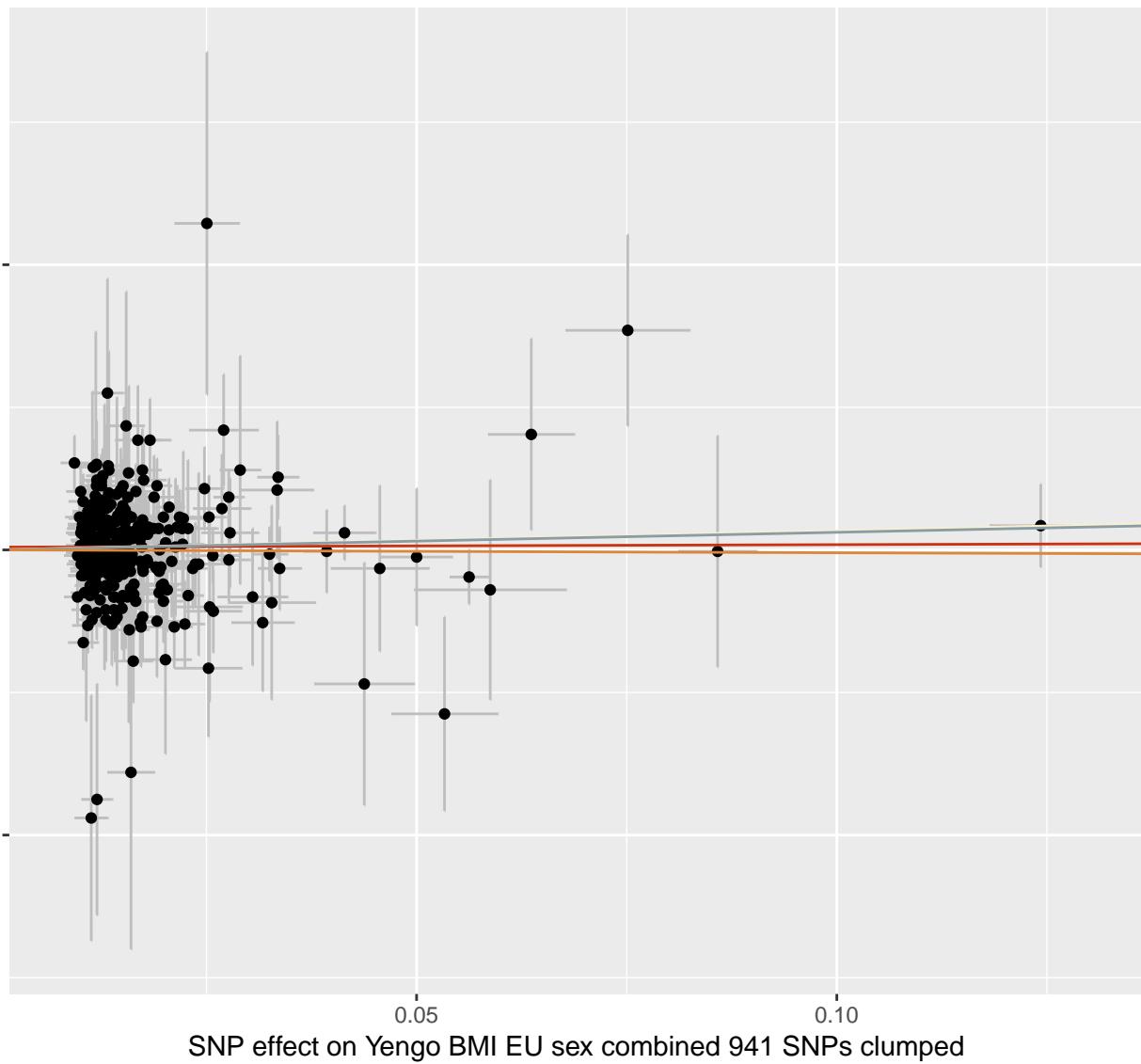


Weighted median



Weighted mode

SNP effect on Levulinic (4-oxovalerate) || id:433



### MR Test



Inverse variance weighted (multiplicative random effects)



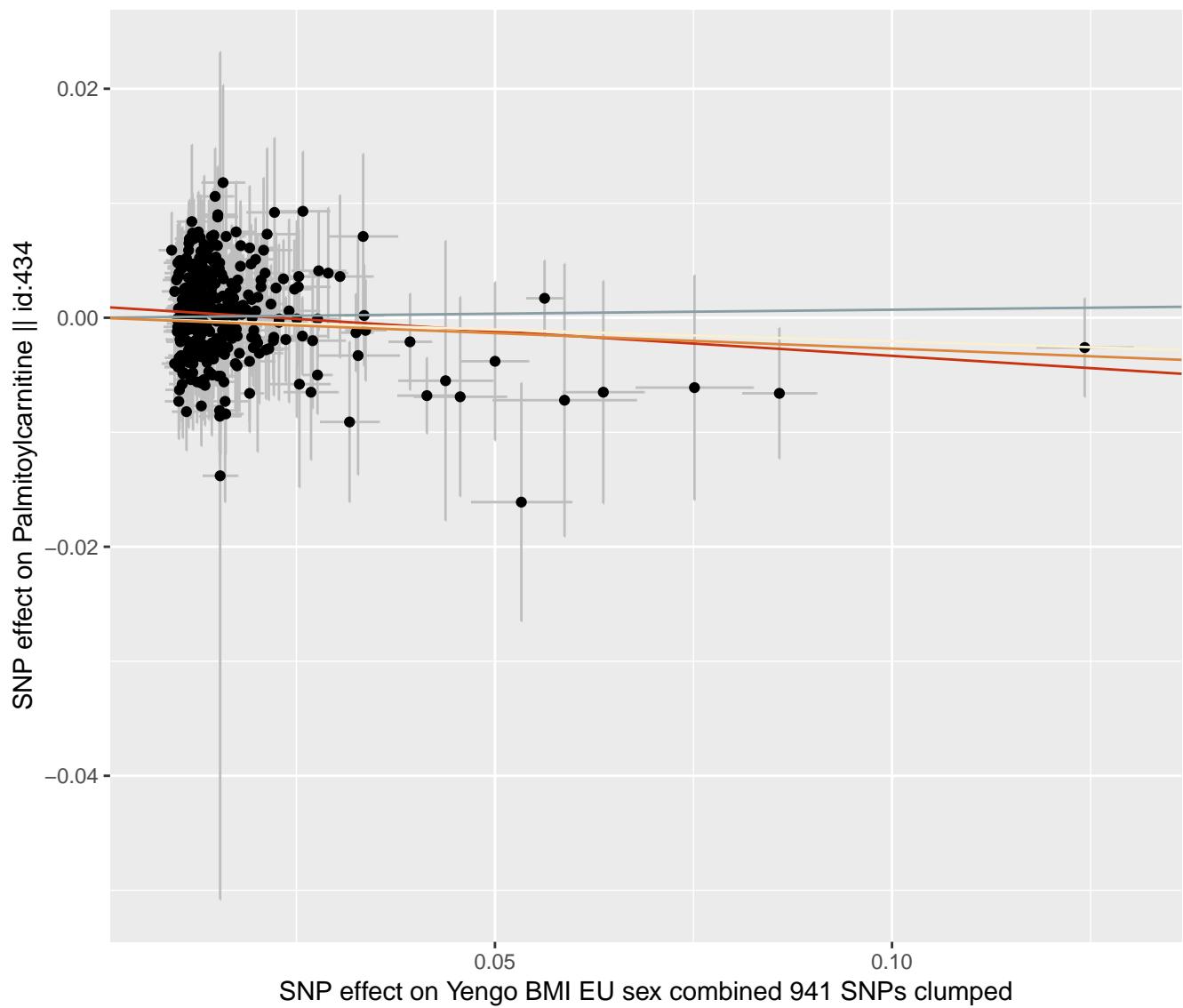
MR Egger



Weighted median

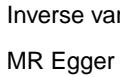


Weighted mode



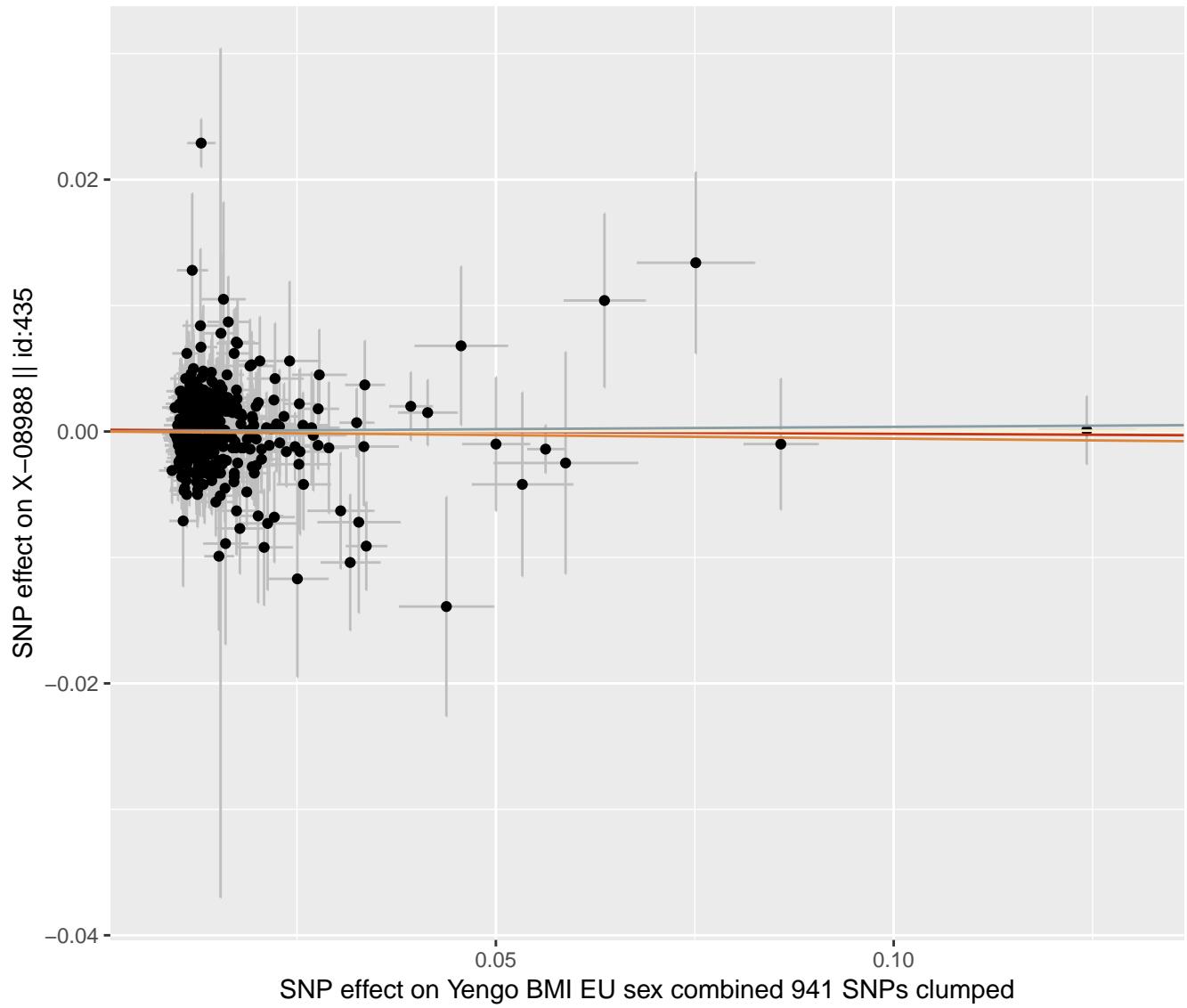
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

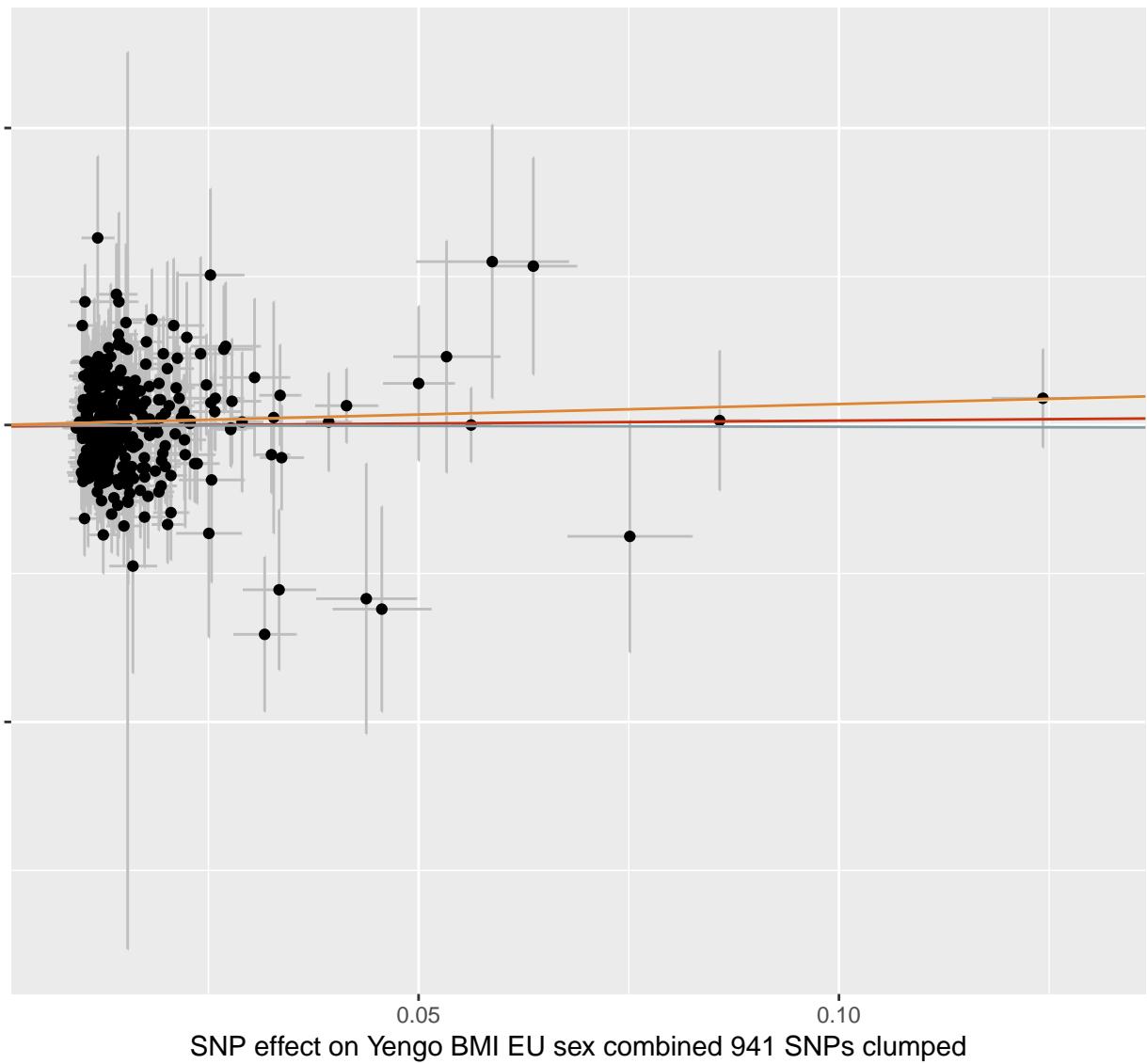


Weighted median



Weighted mode

SNP effect on X-09026 || id:436



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



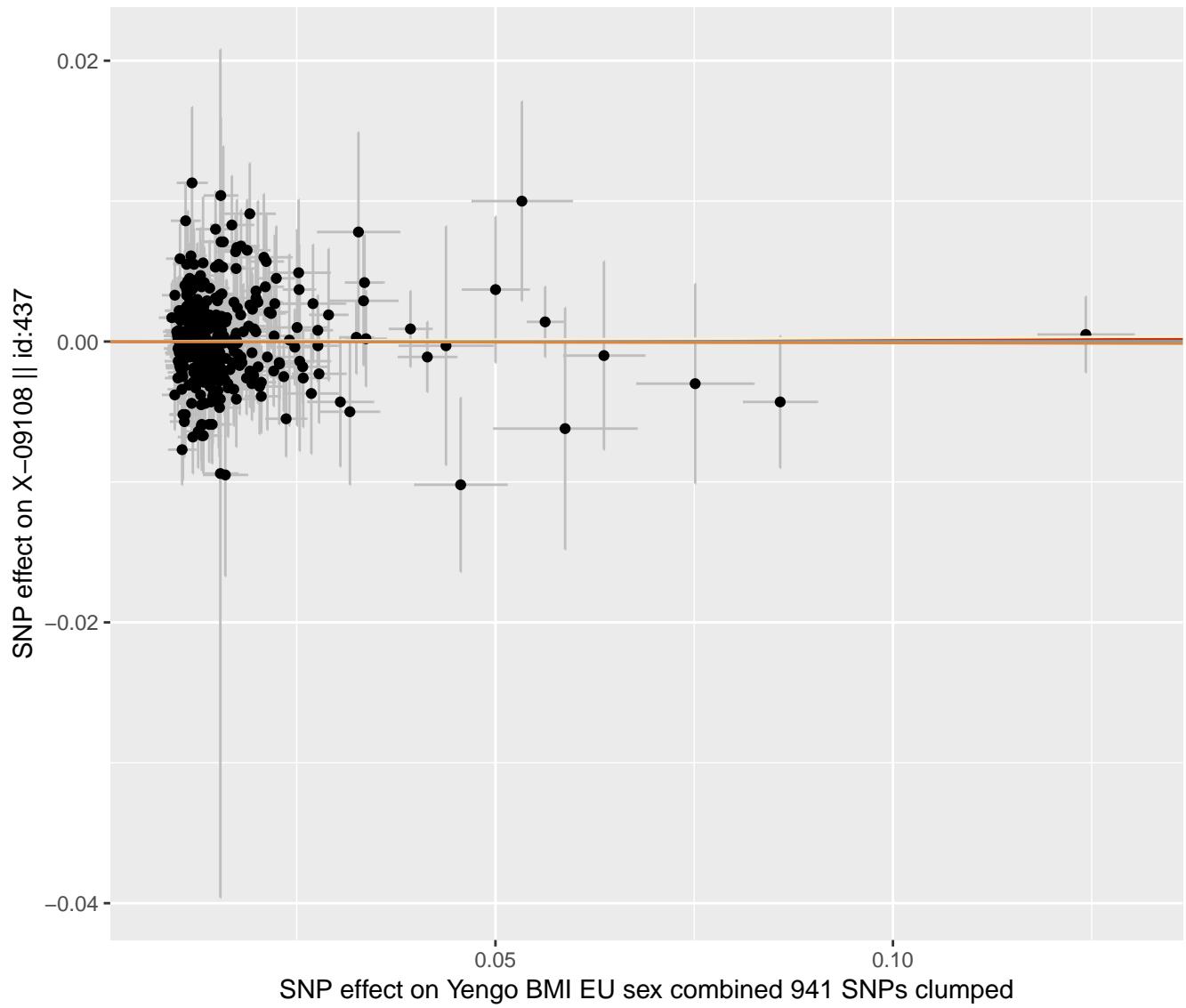
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



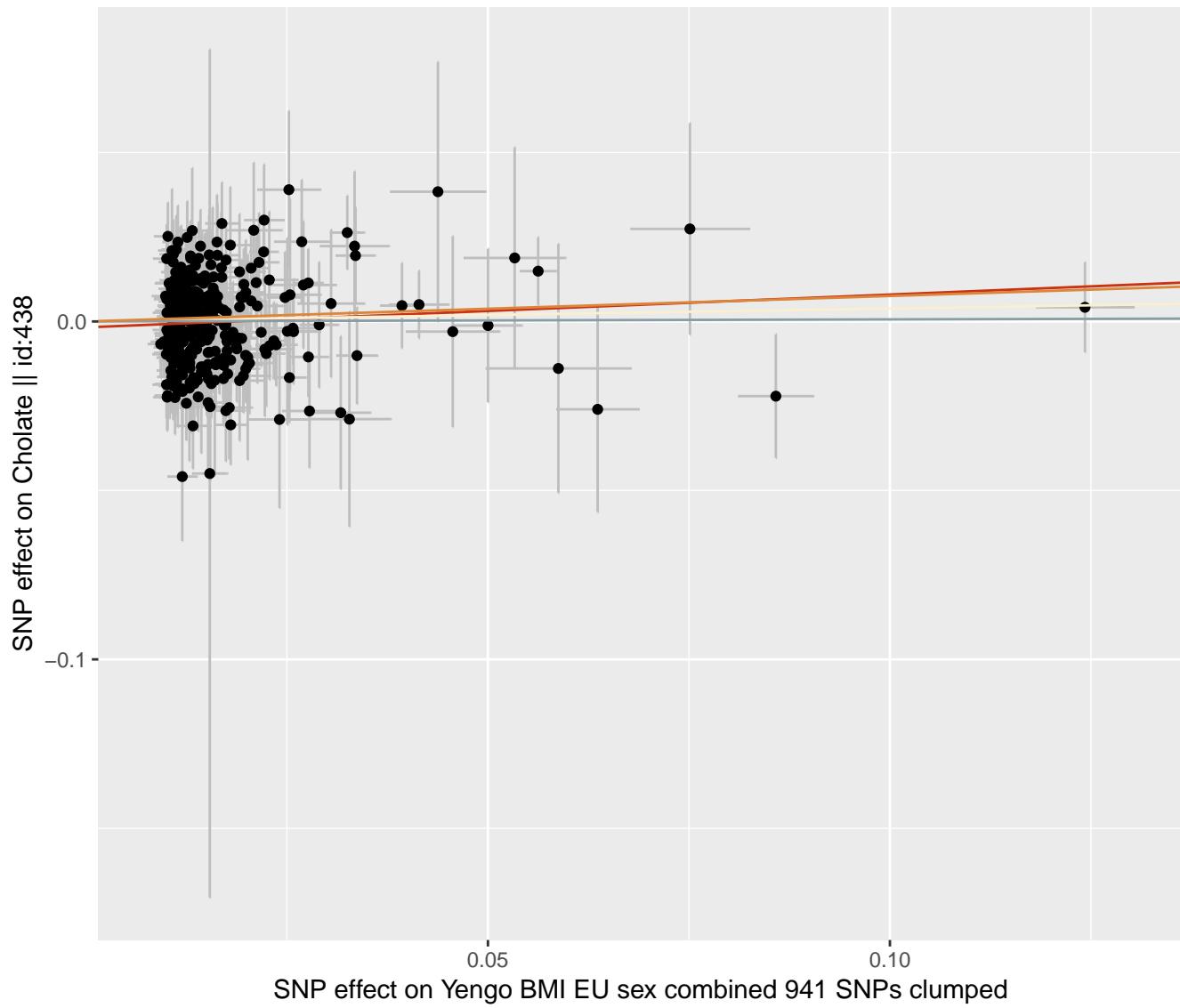
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



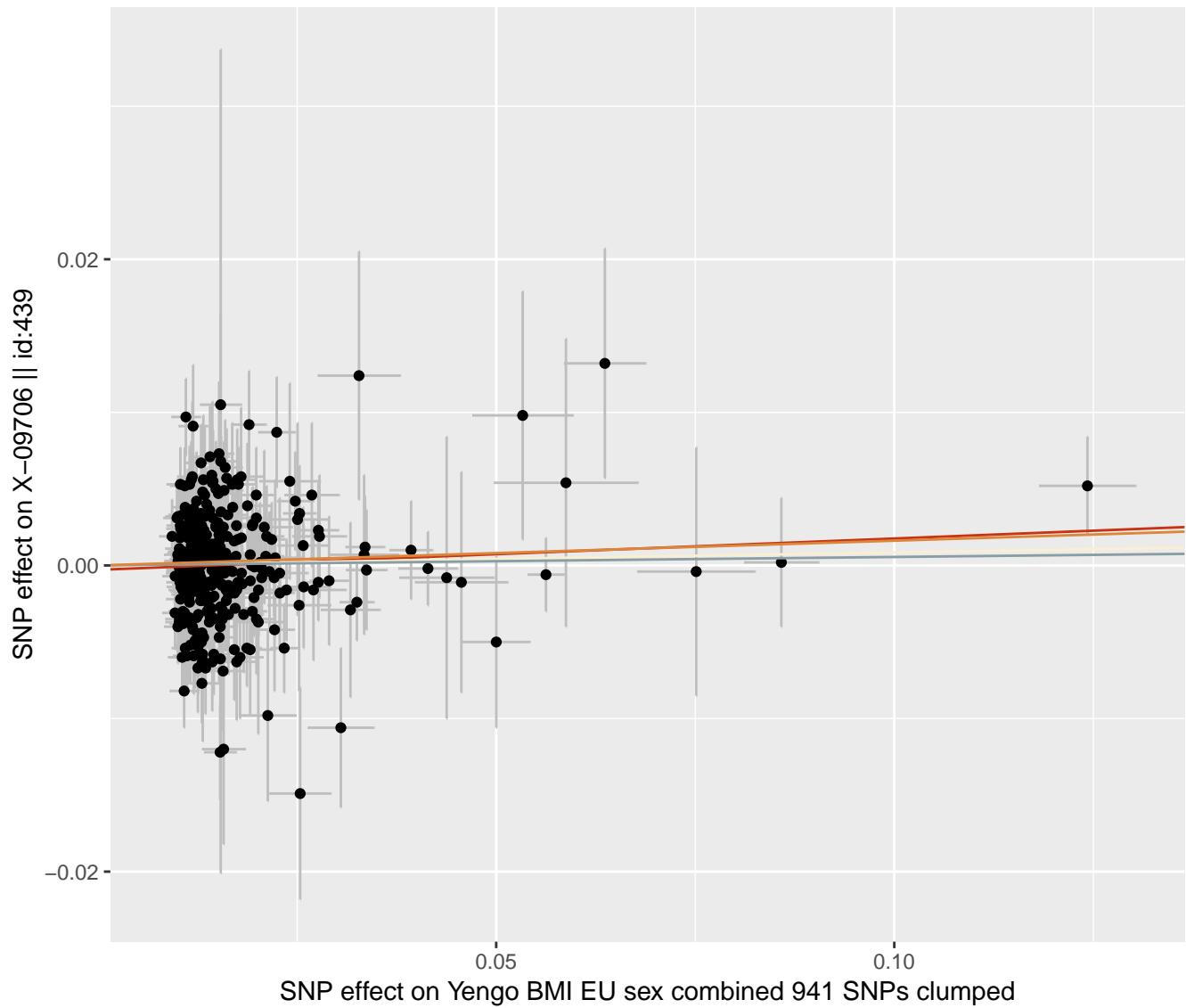
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



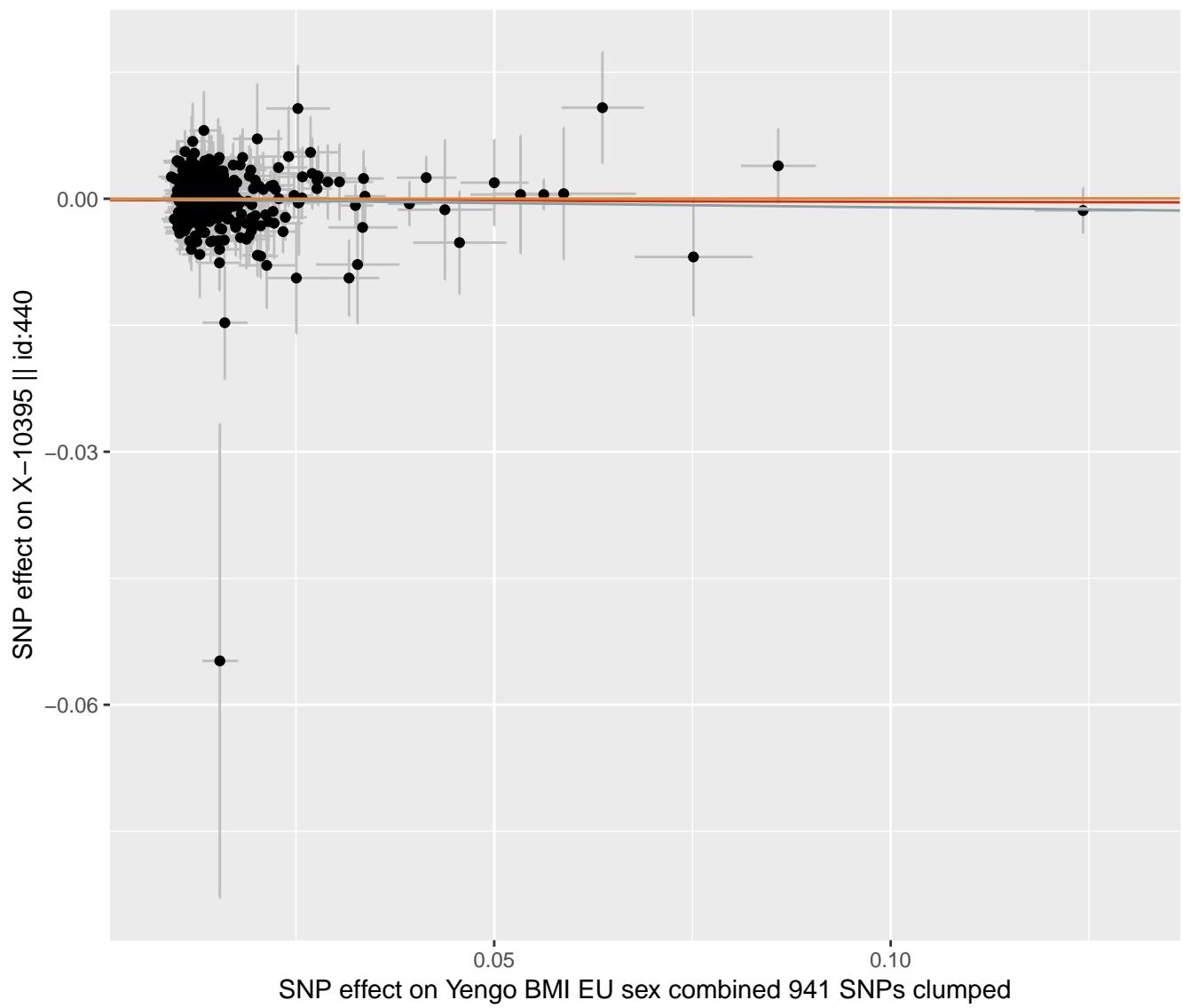
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

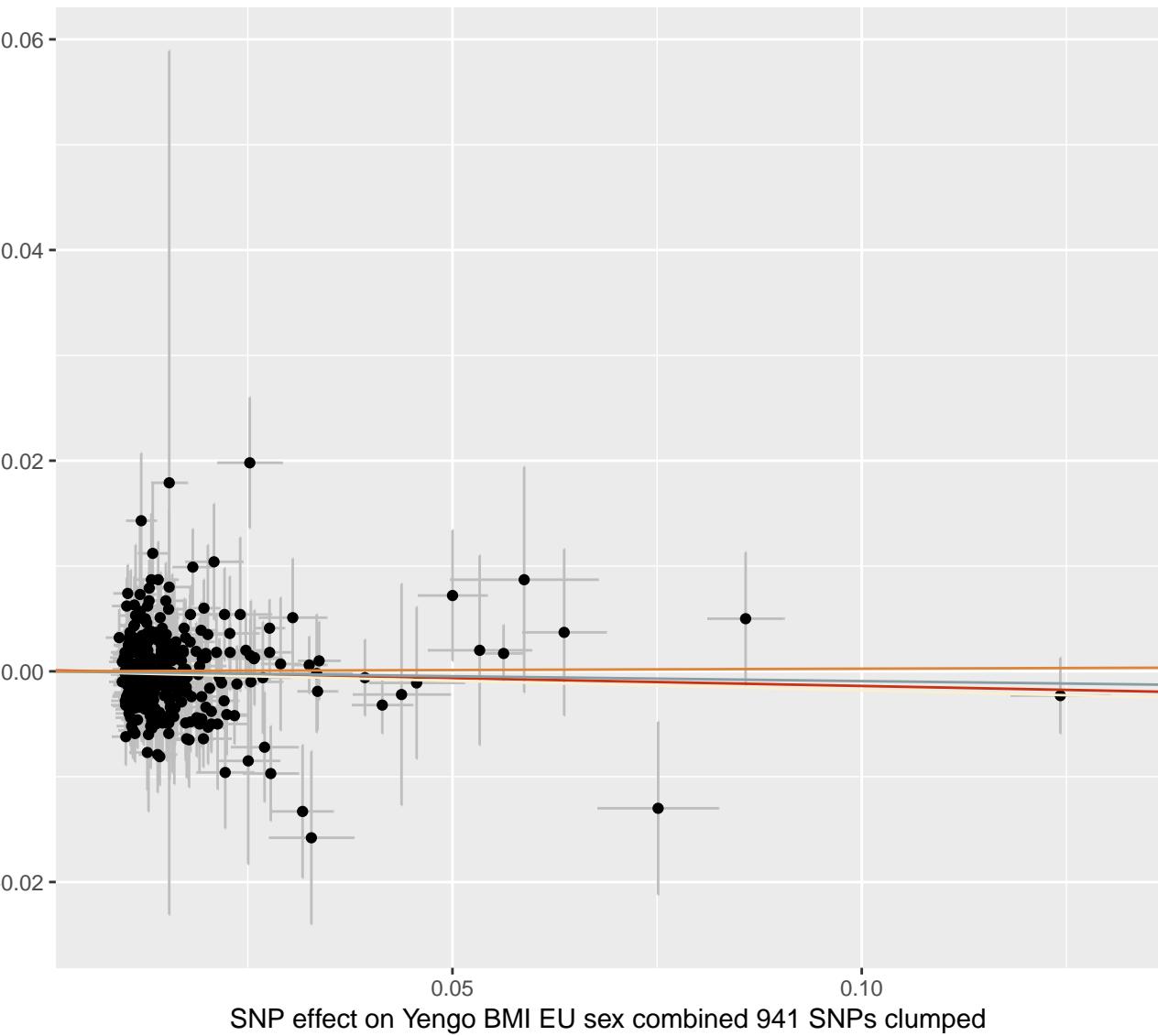


Weighted median



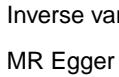
Weighted mode

SNP effect on X-10429 || id:441



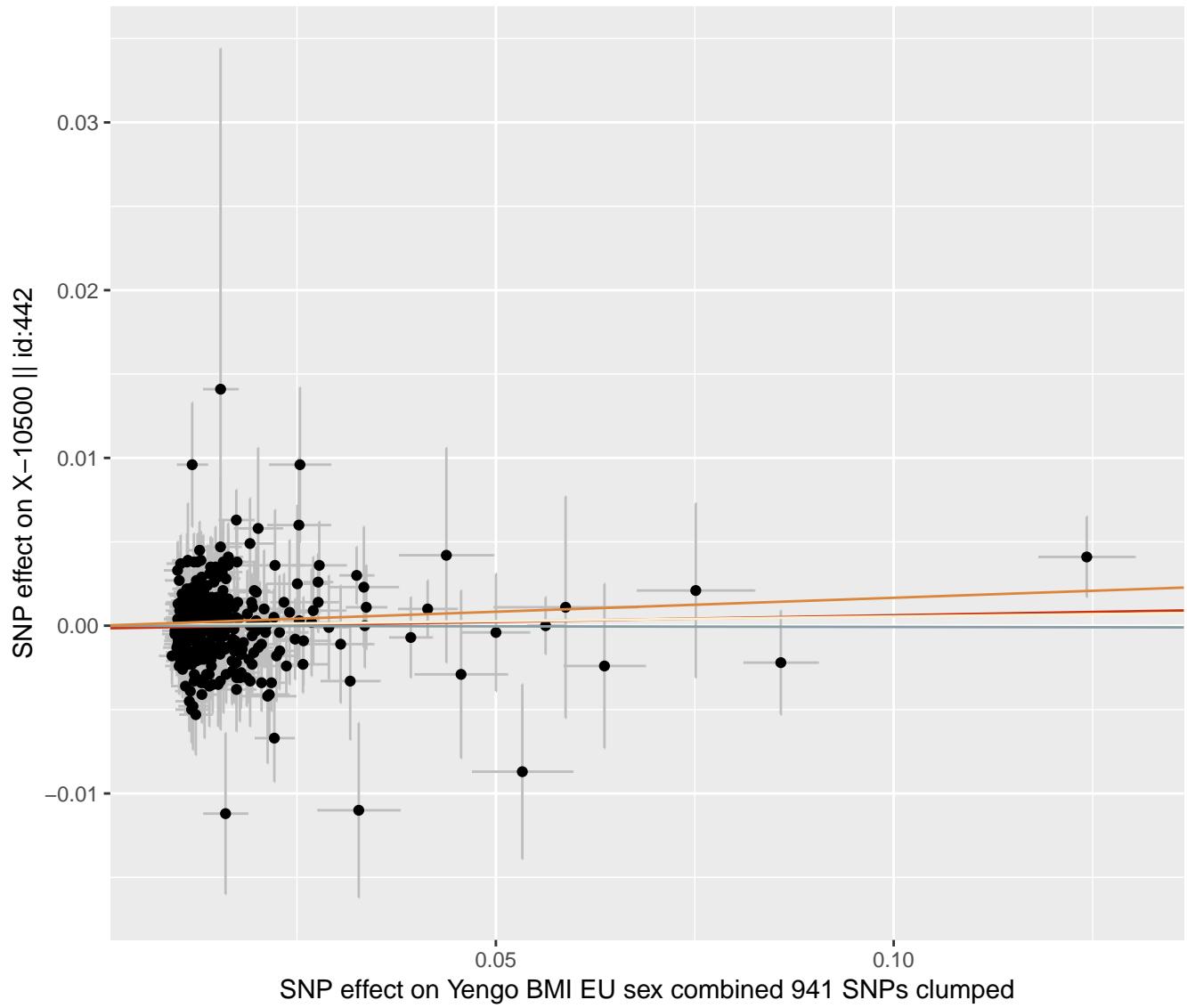
# MR Test

 Inverse variance weighted (multiplicative random effects)

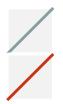
 MR Egger

 Weighted median

 Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

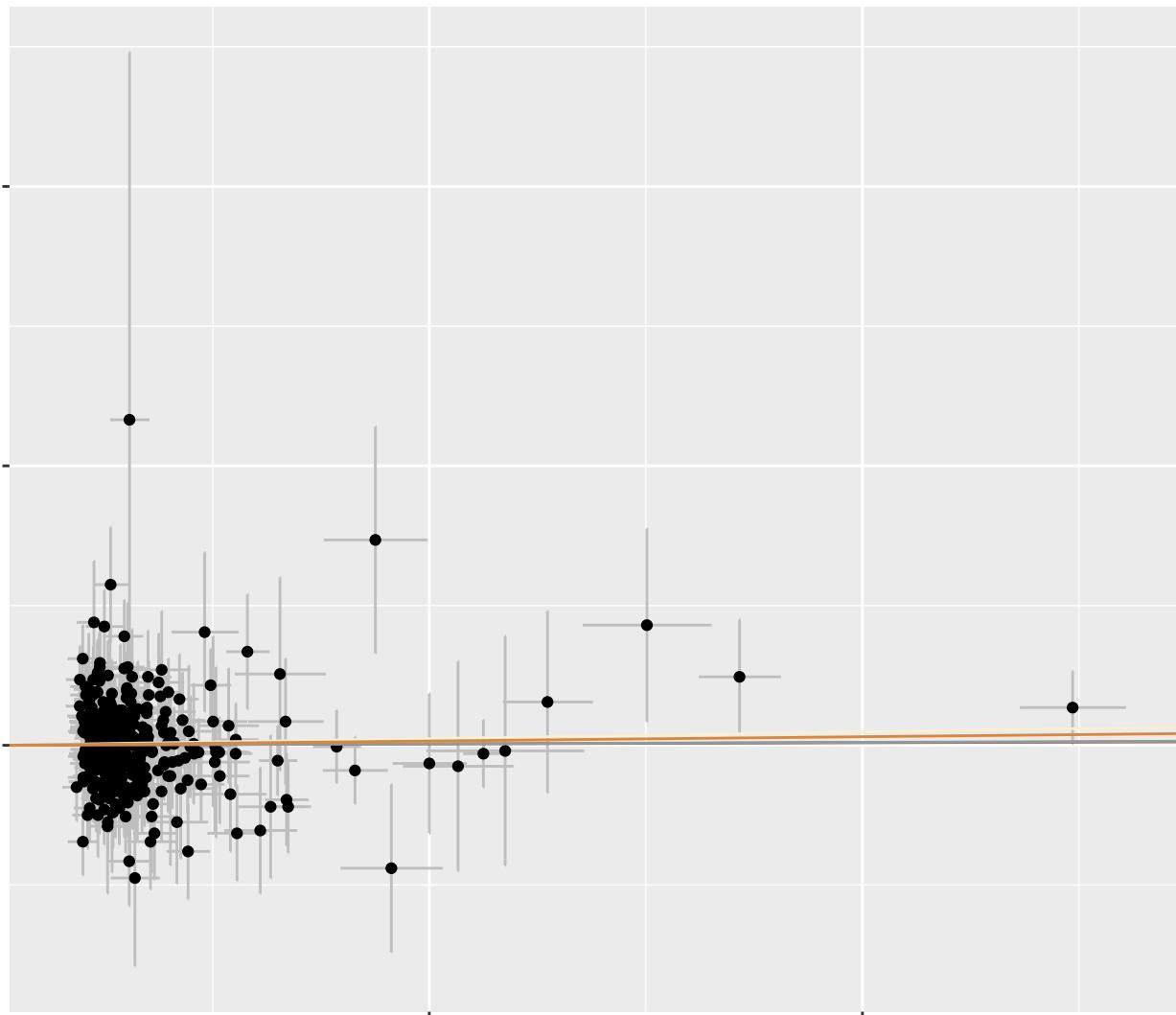


Weighted median



Weighted mode

SNP effect on X-10506 || id:443



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



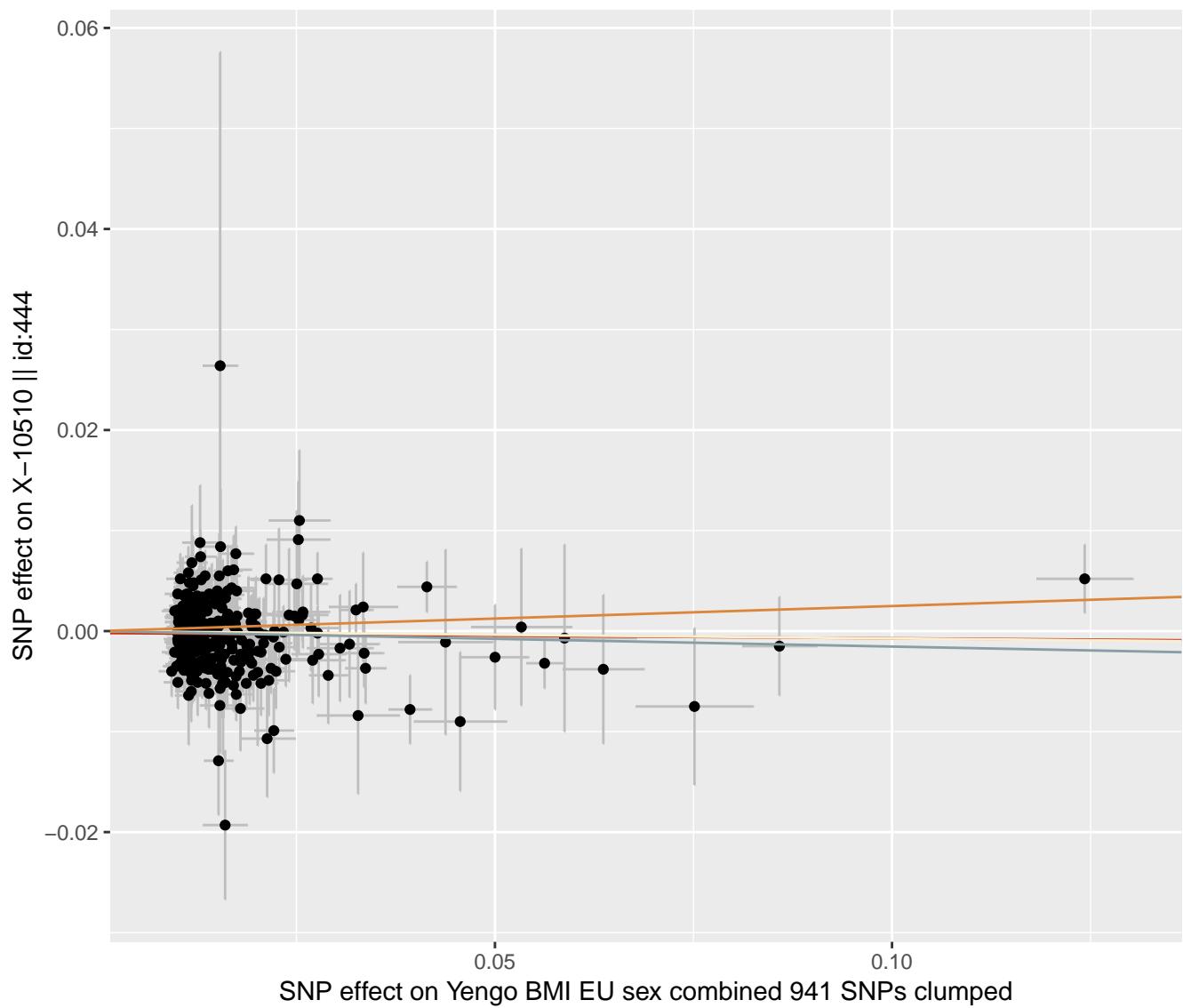
MR Egger



Weighted median



Weighted mode



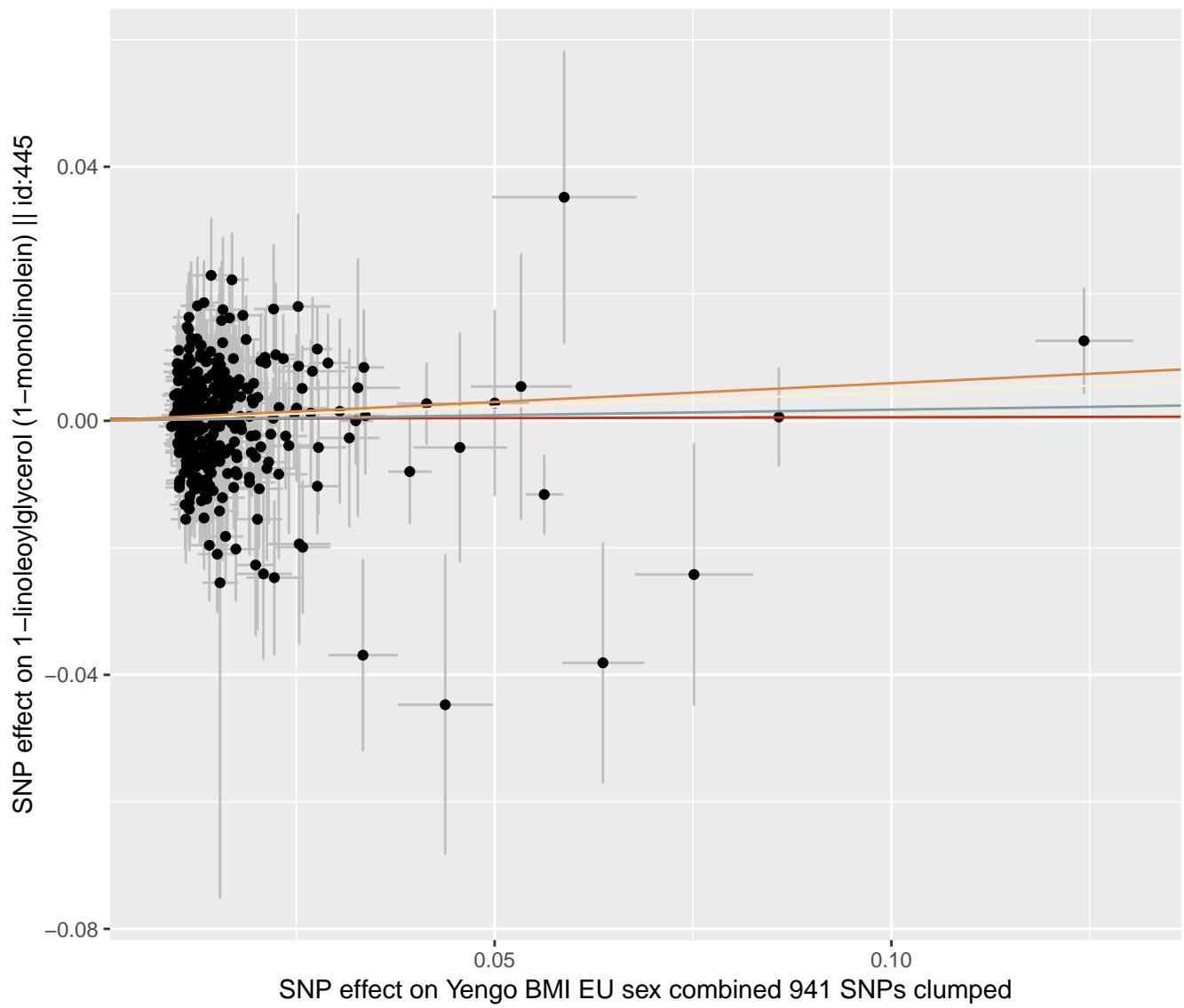
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



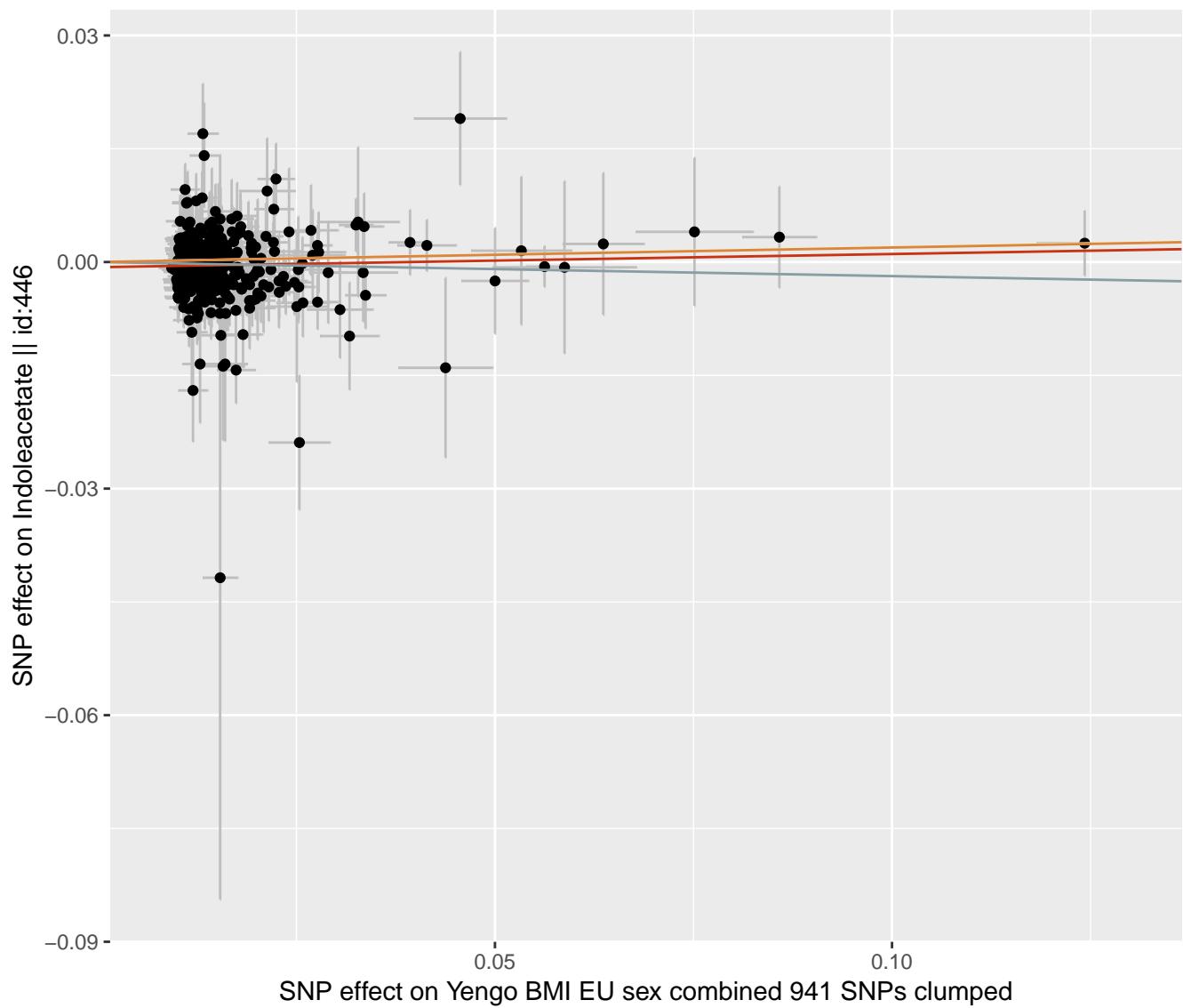
MR Egger



Weighted median

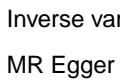


Weighted mode

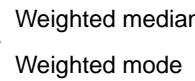


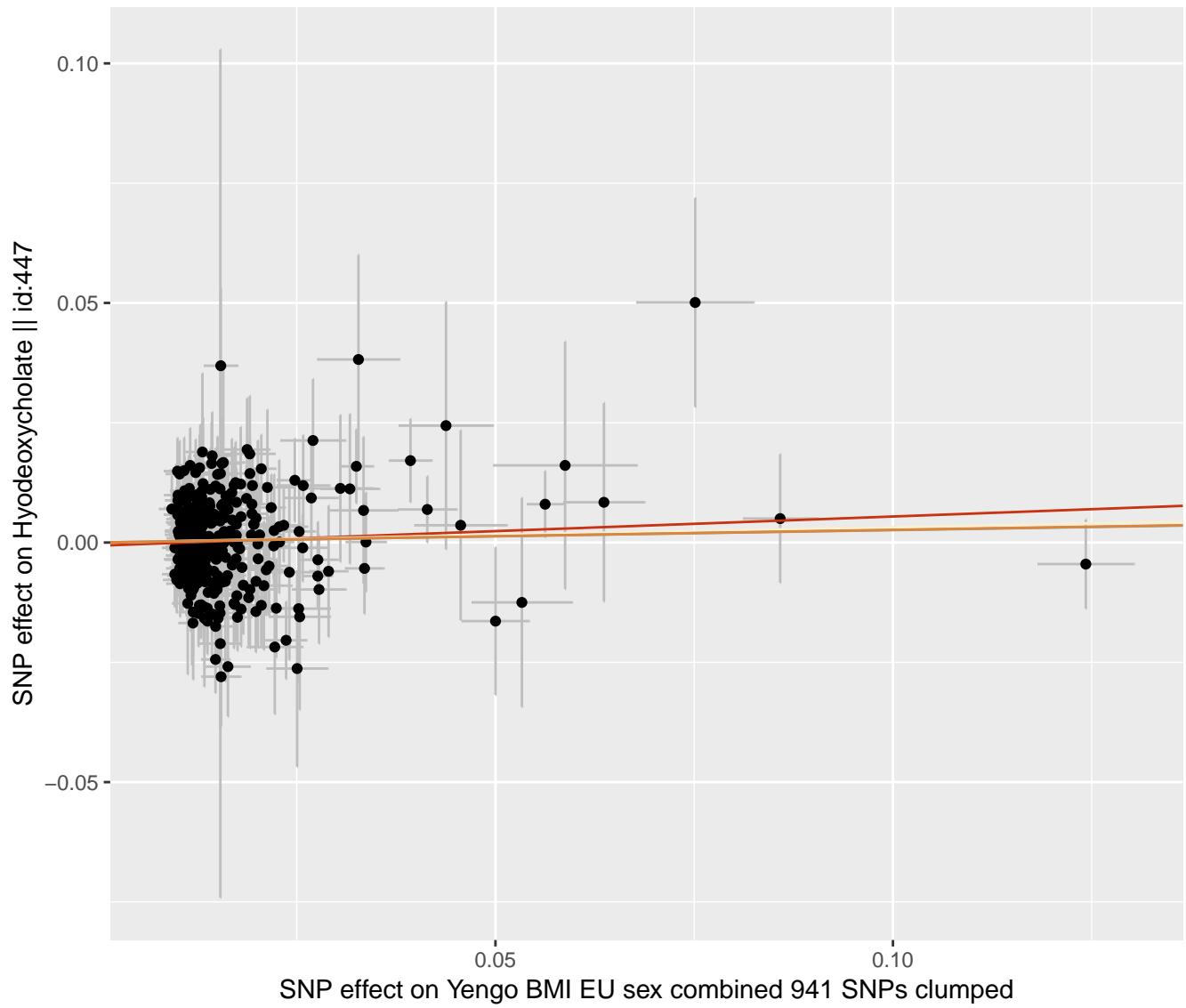
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

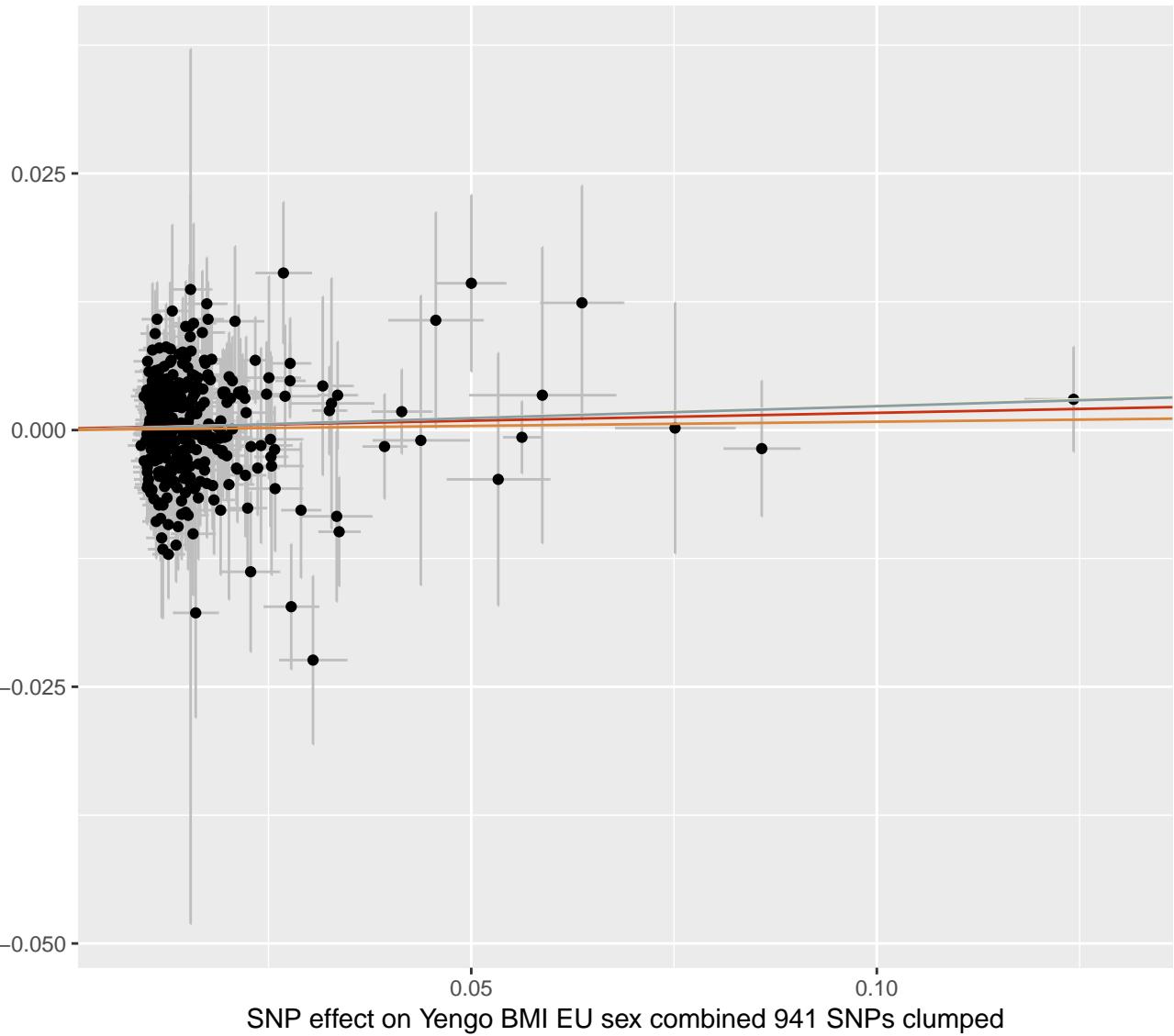


Weighted median



Weighted mode

SNP effect on 3-indoxyl sulfate || id:448



### MR Test



Inverse variance weighted (multiplicative random effects)



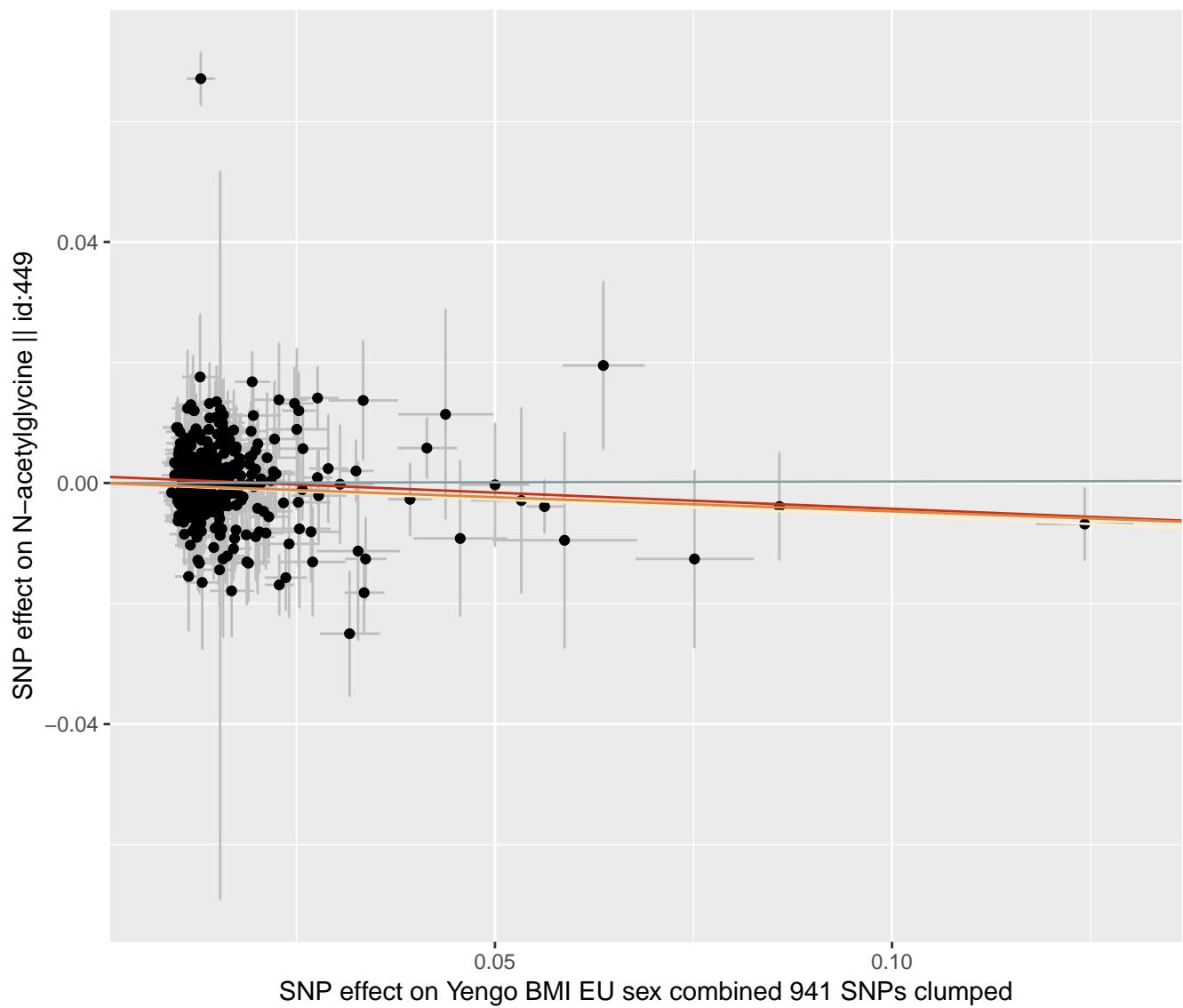
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



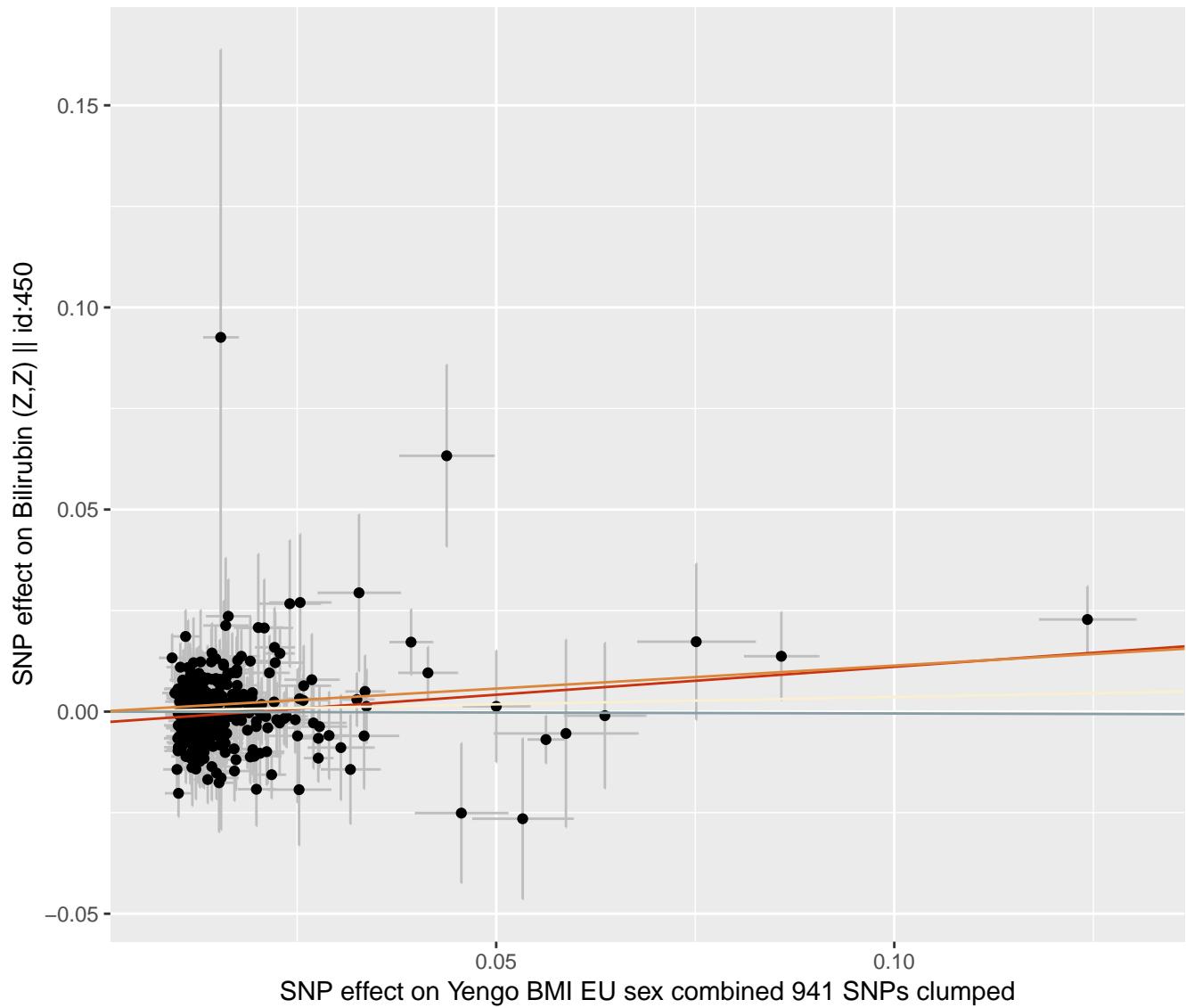
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



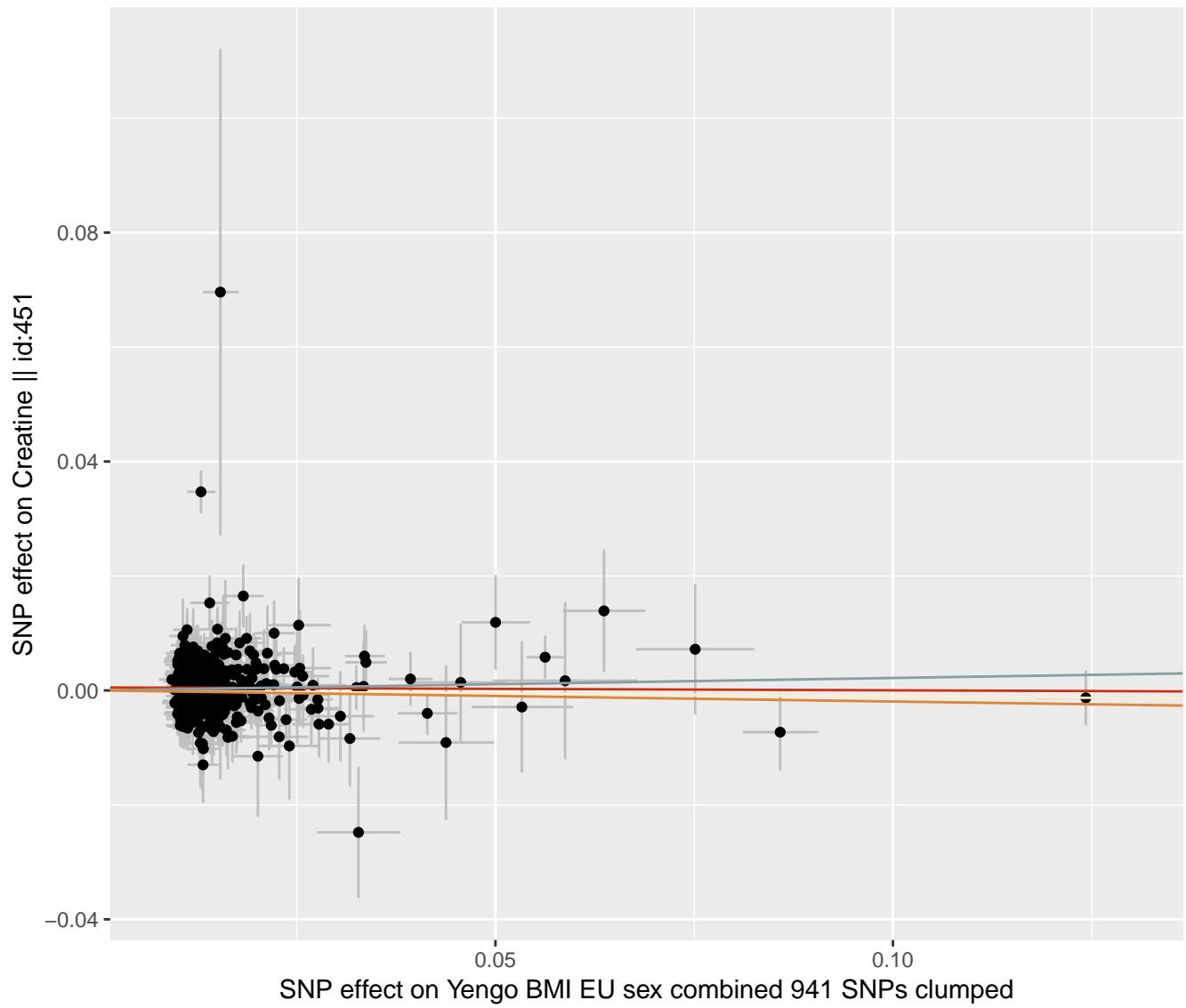
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



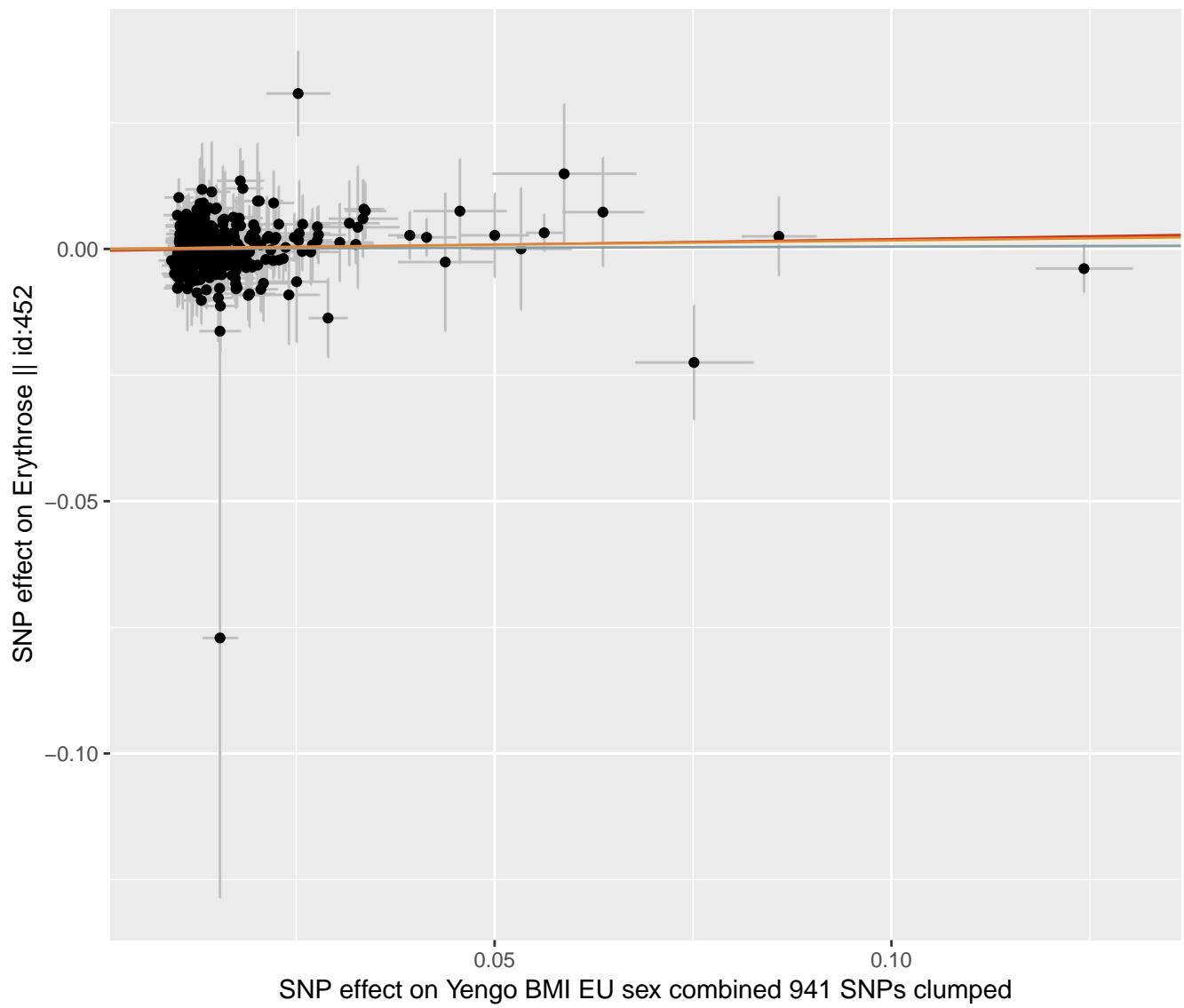
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

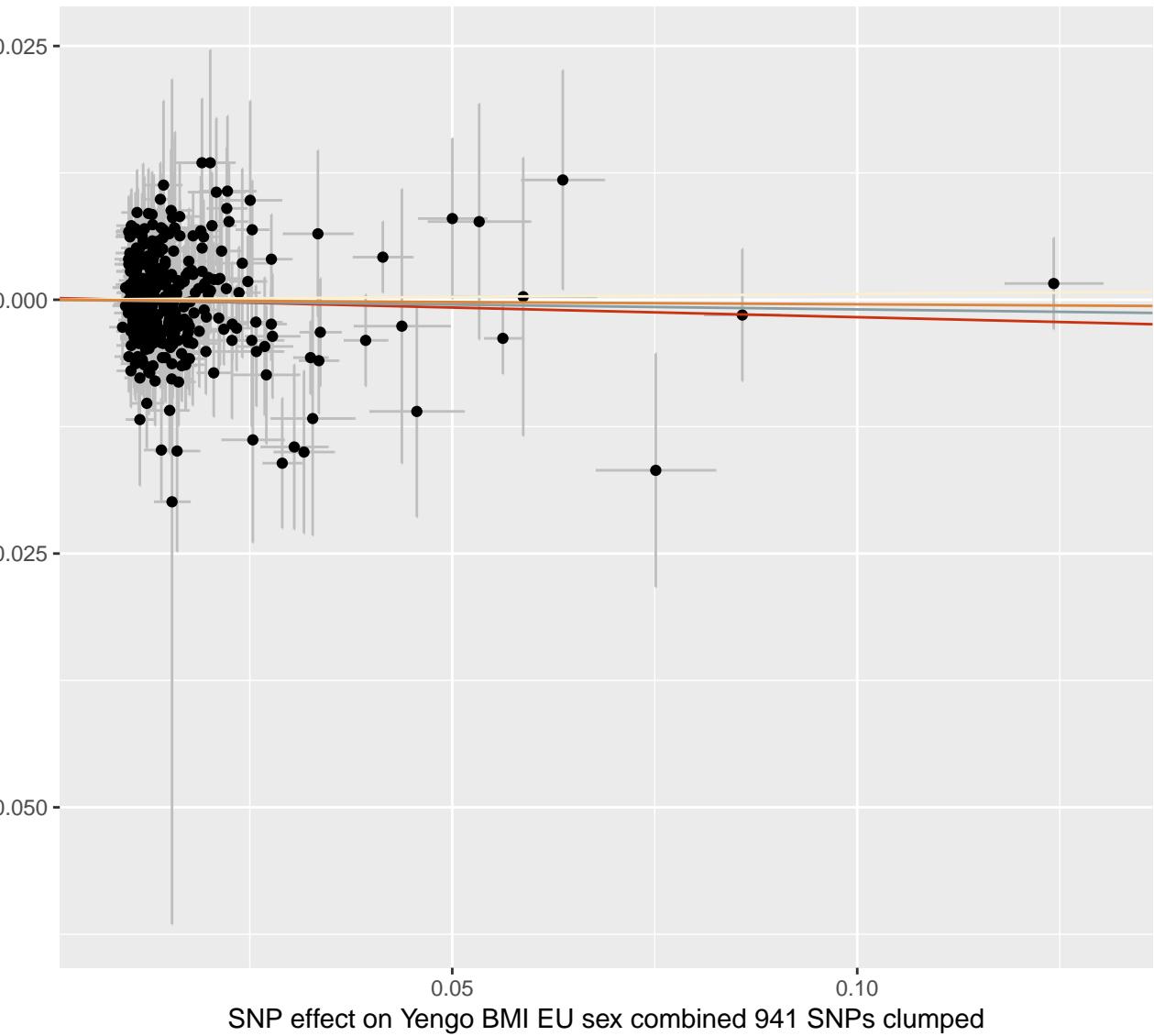


Weighted median



Weighted mode

SNP effect on Threonate || id:453



### MR Test



Inverse variance weighted (multiplicative random effects)



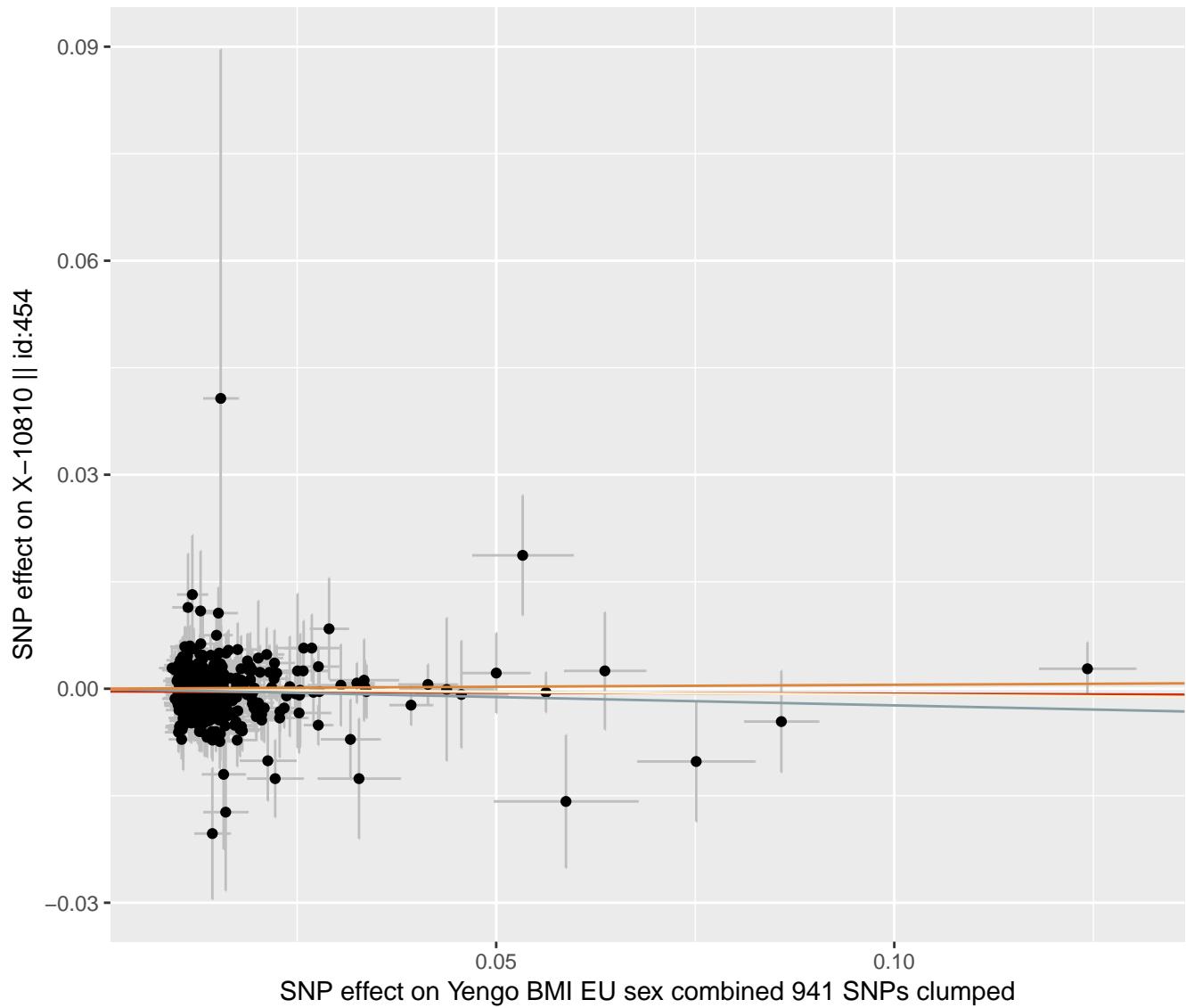
MR Egger



Weighted median

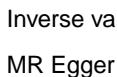


Weighted mode



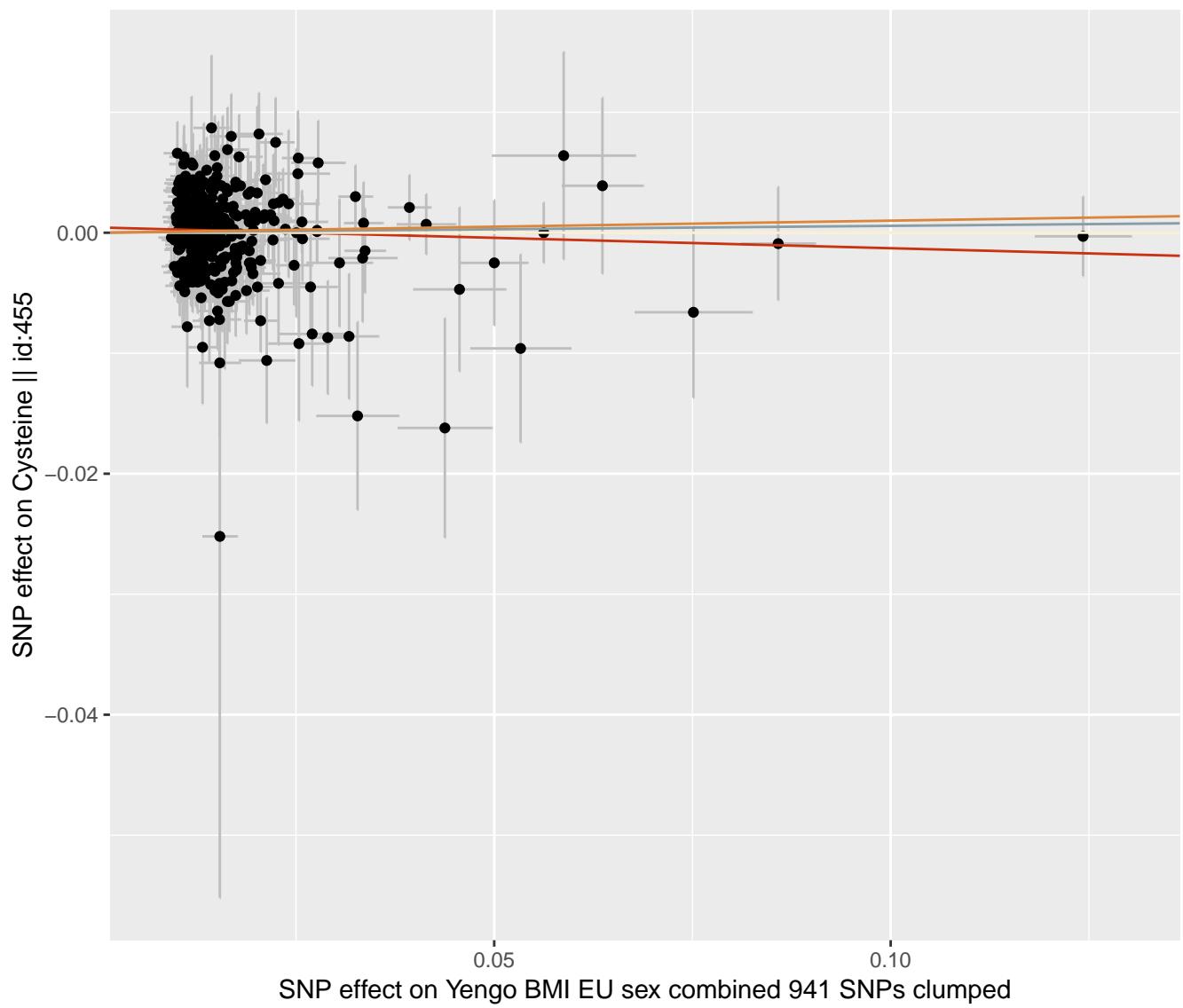
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



## MR Test

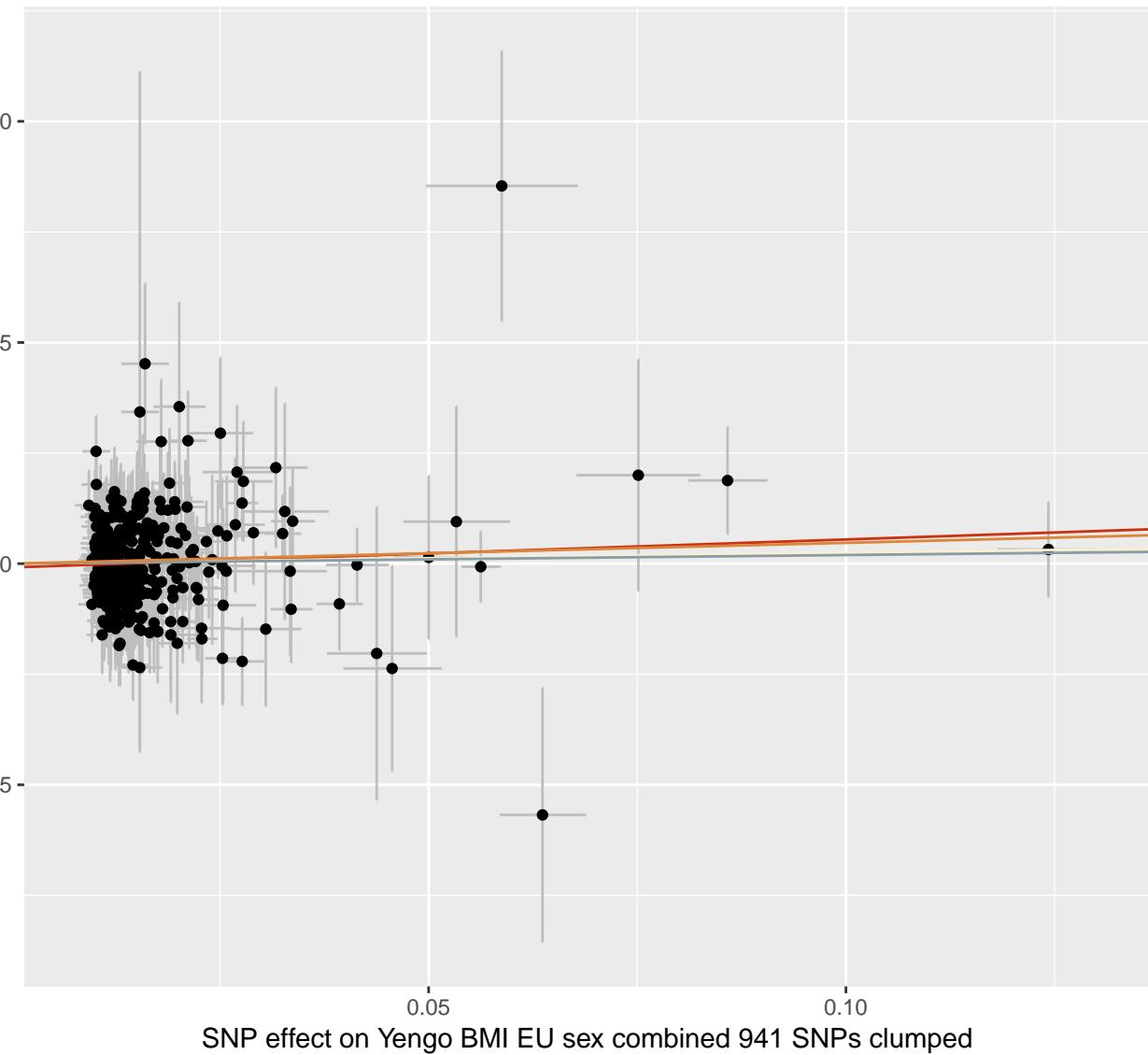
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

SNP effect on Pyroglutamylglycine || id:456



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



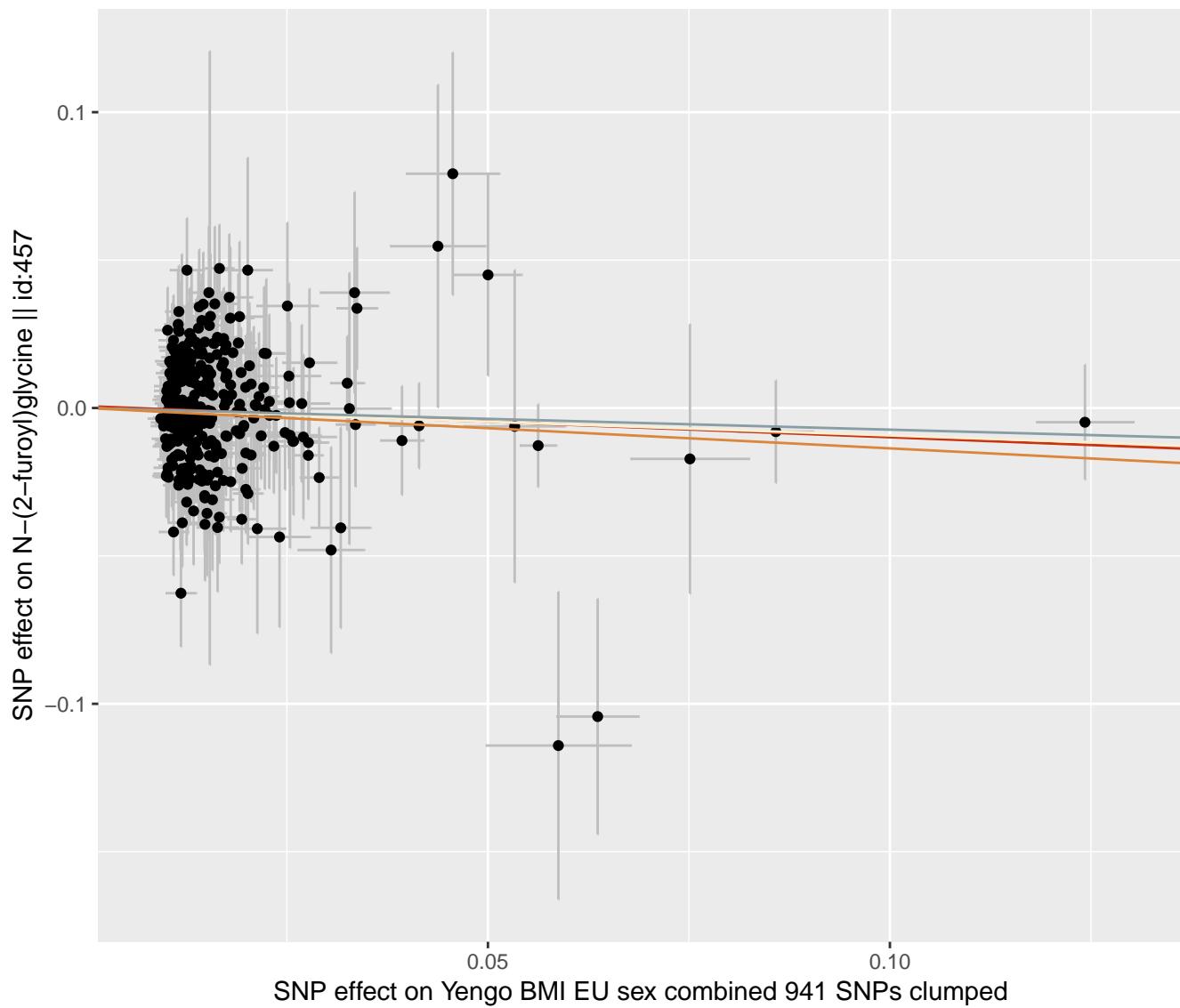
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



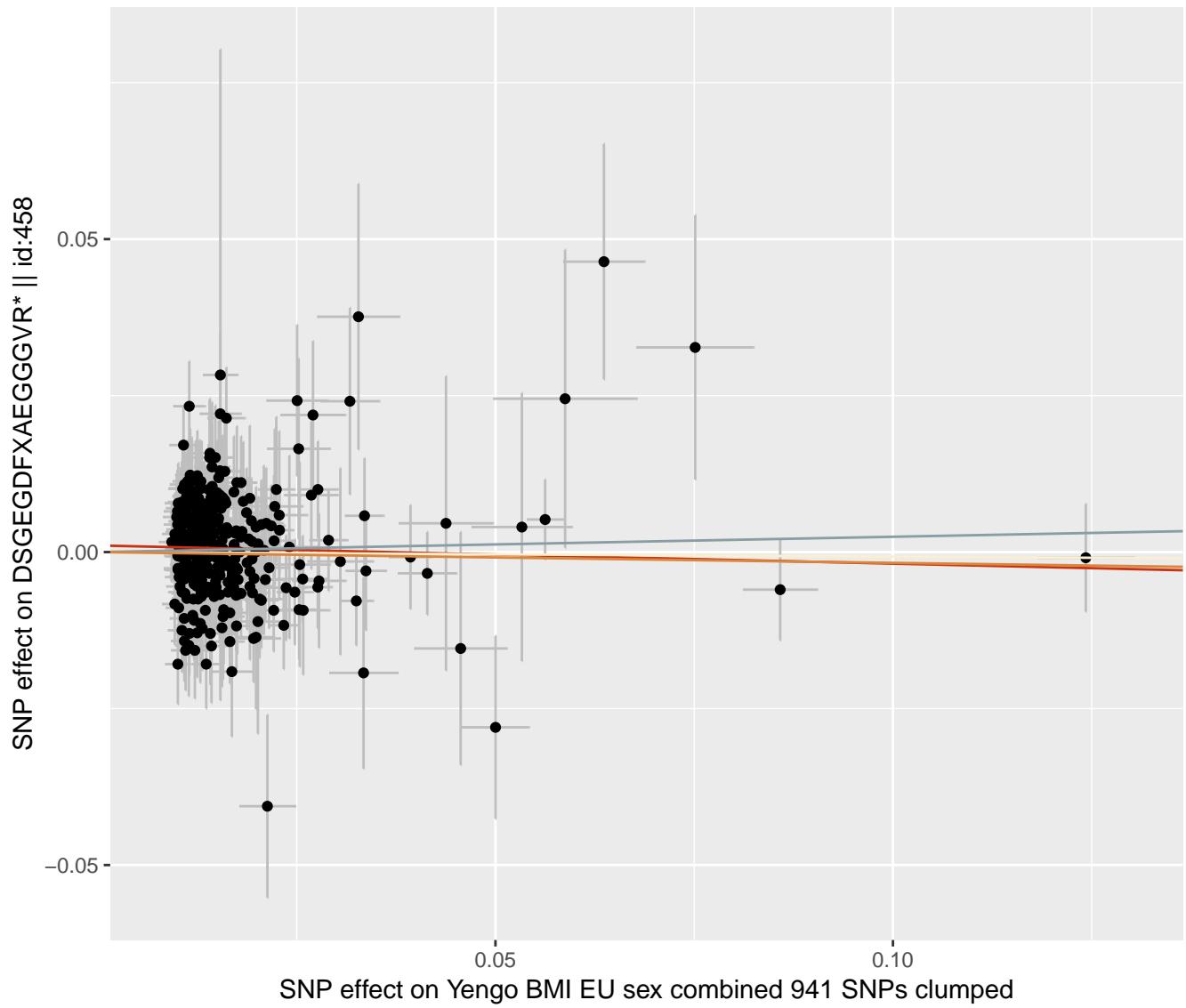
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



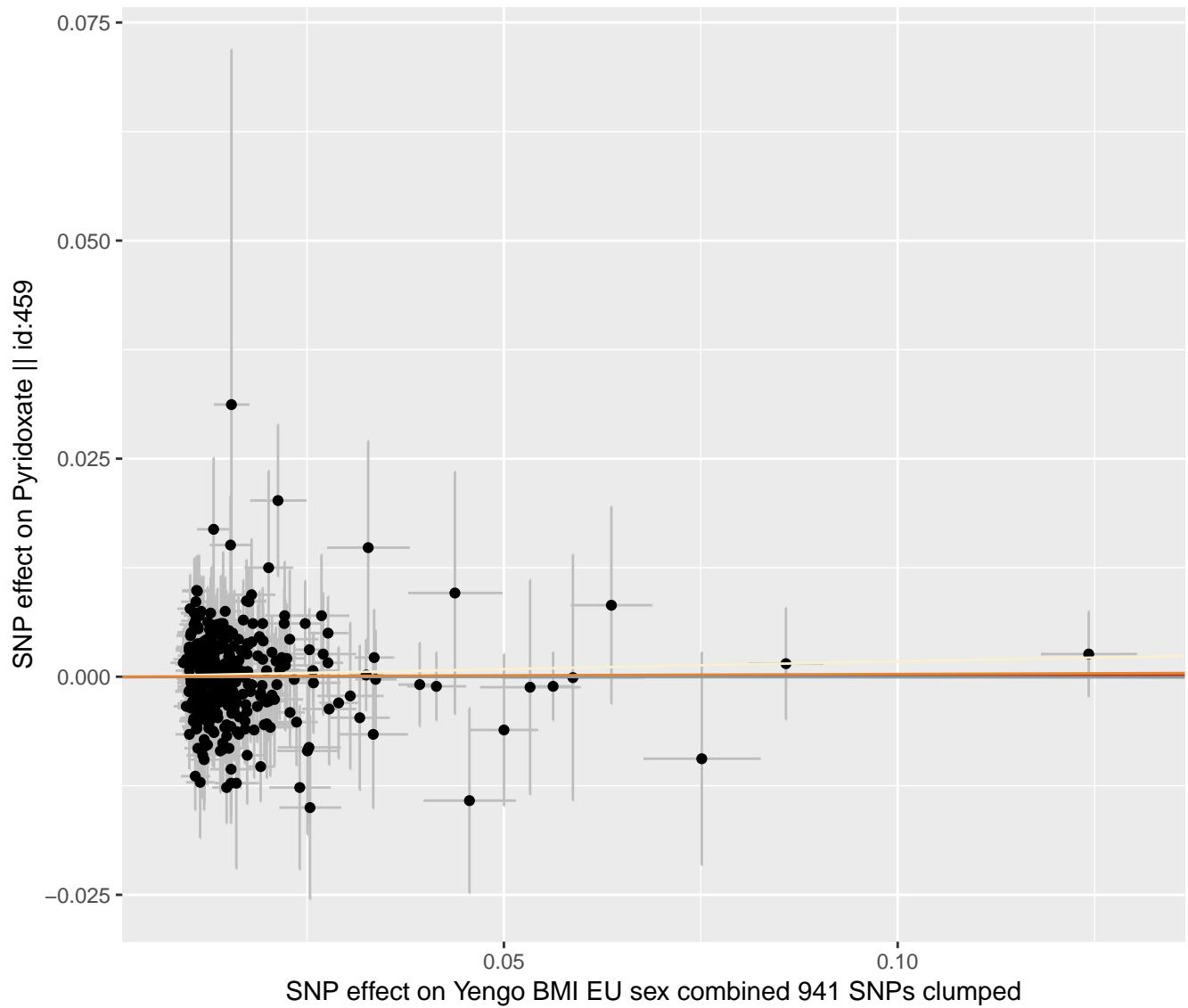
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

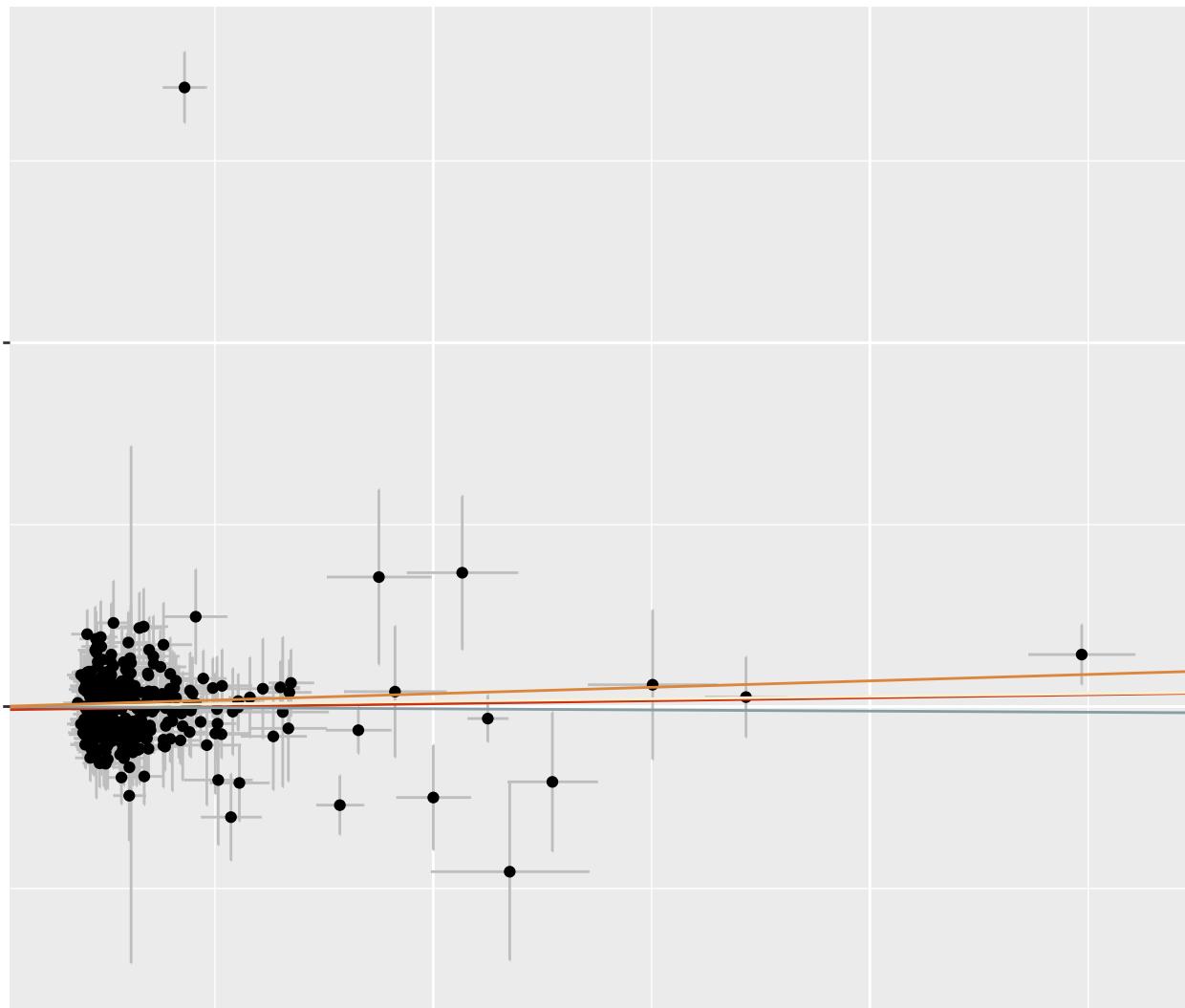


Weighted median



Weighted mode

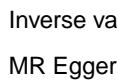
SNP effect on Androsterone sulfate || id:460



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

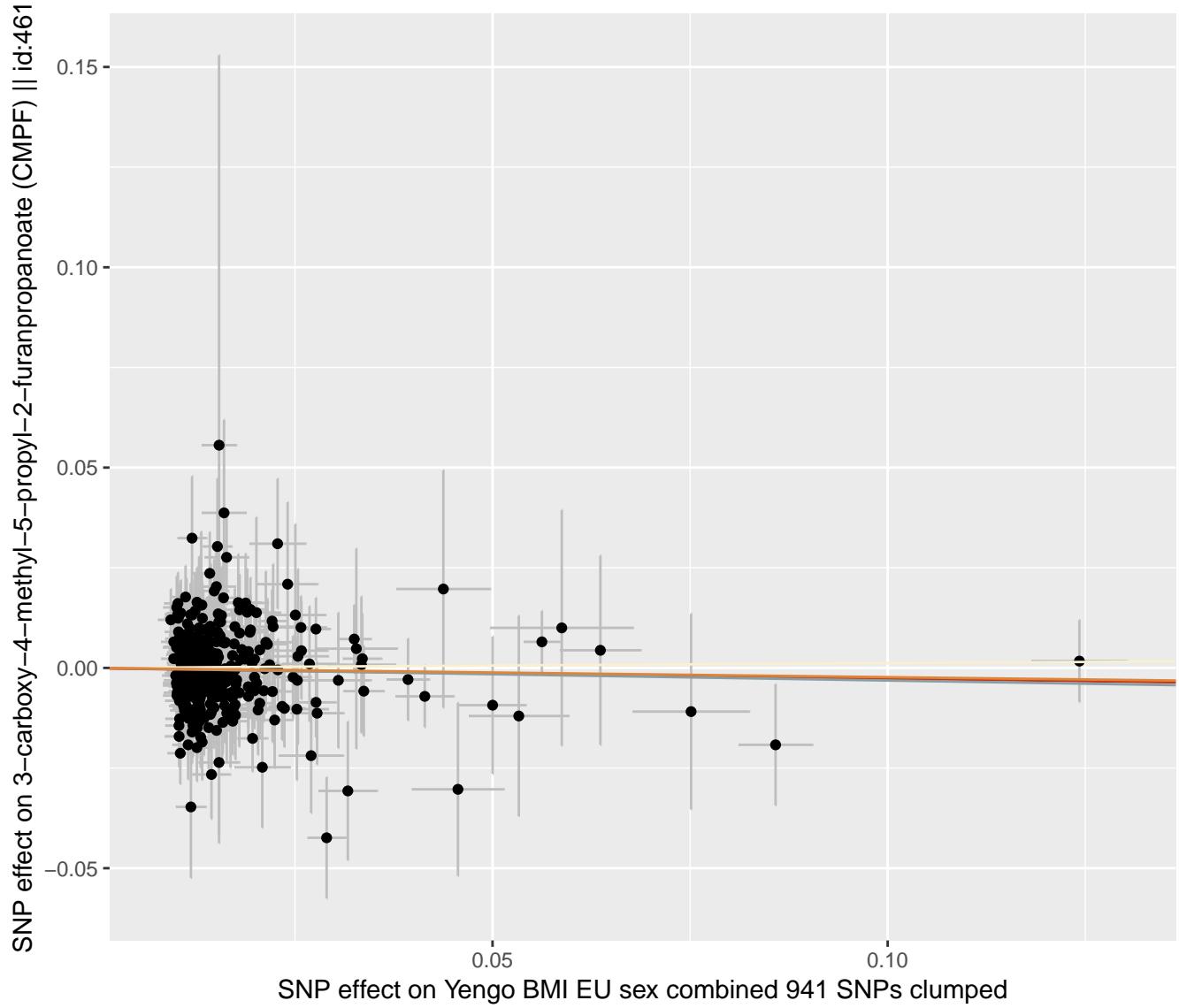
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



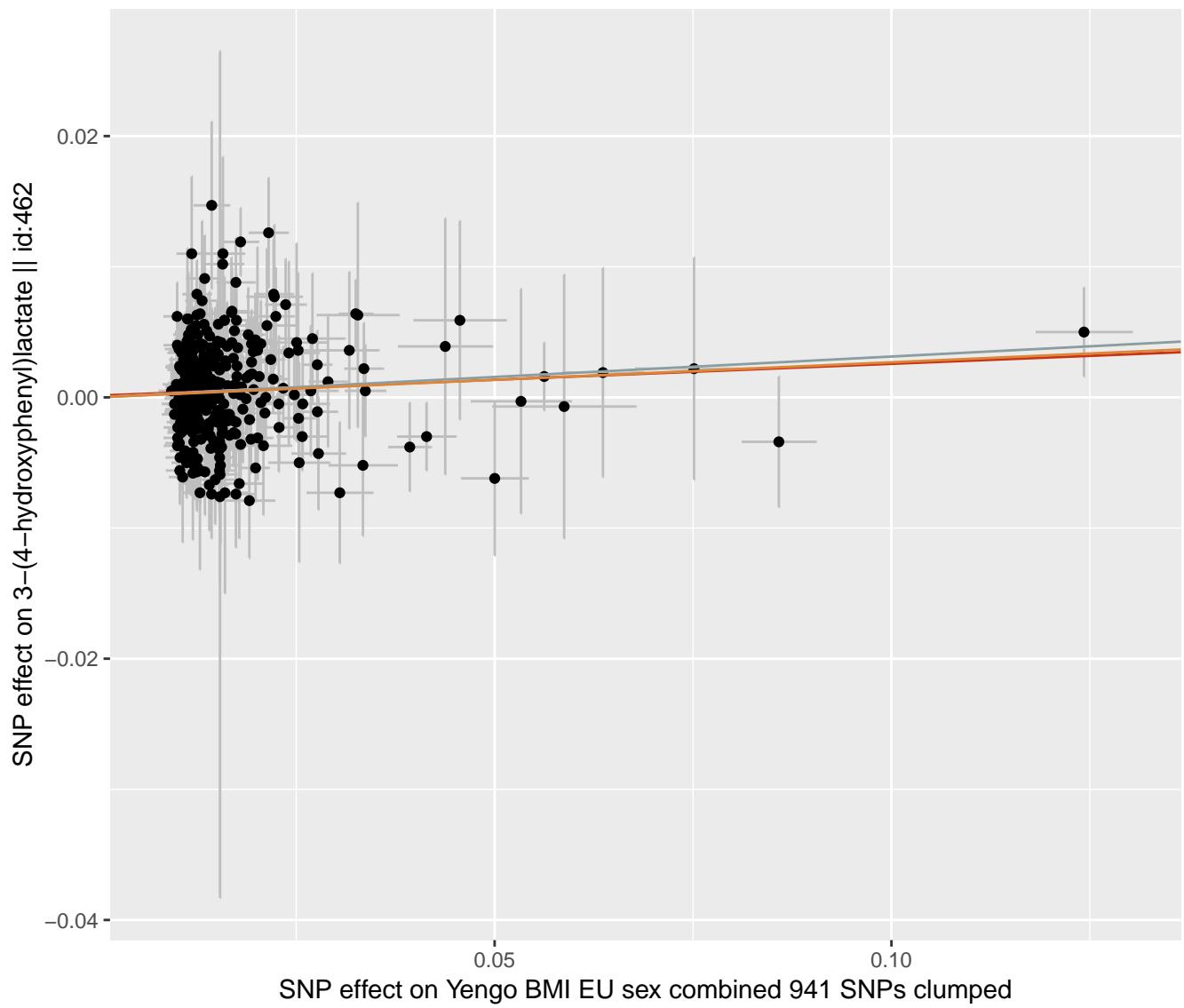
MR Egger



Weighted median

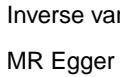


Weighted mode



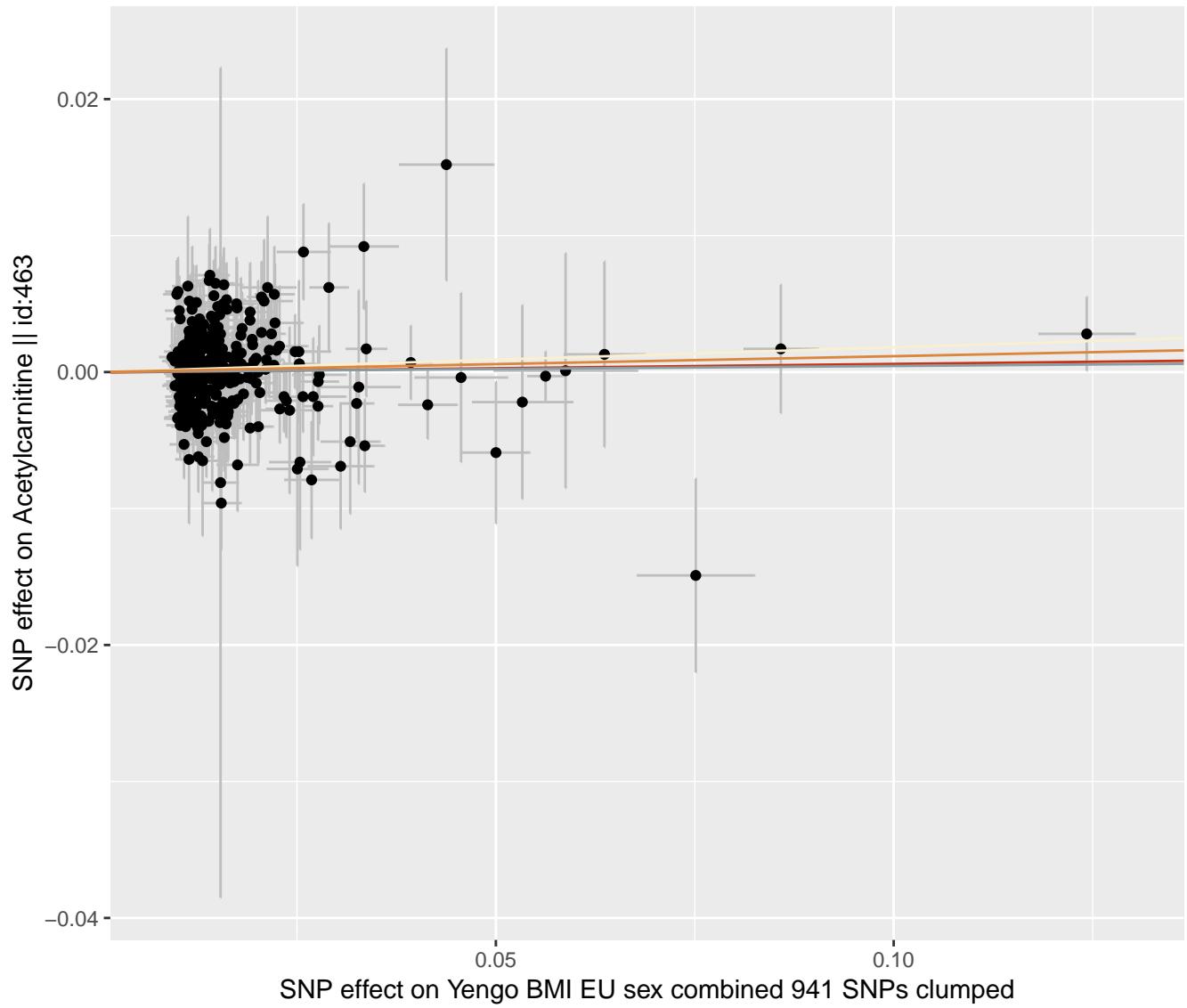
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



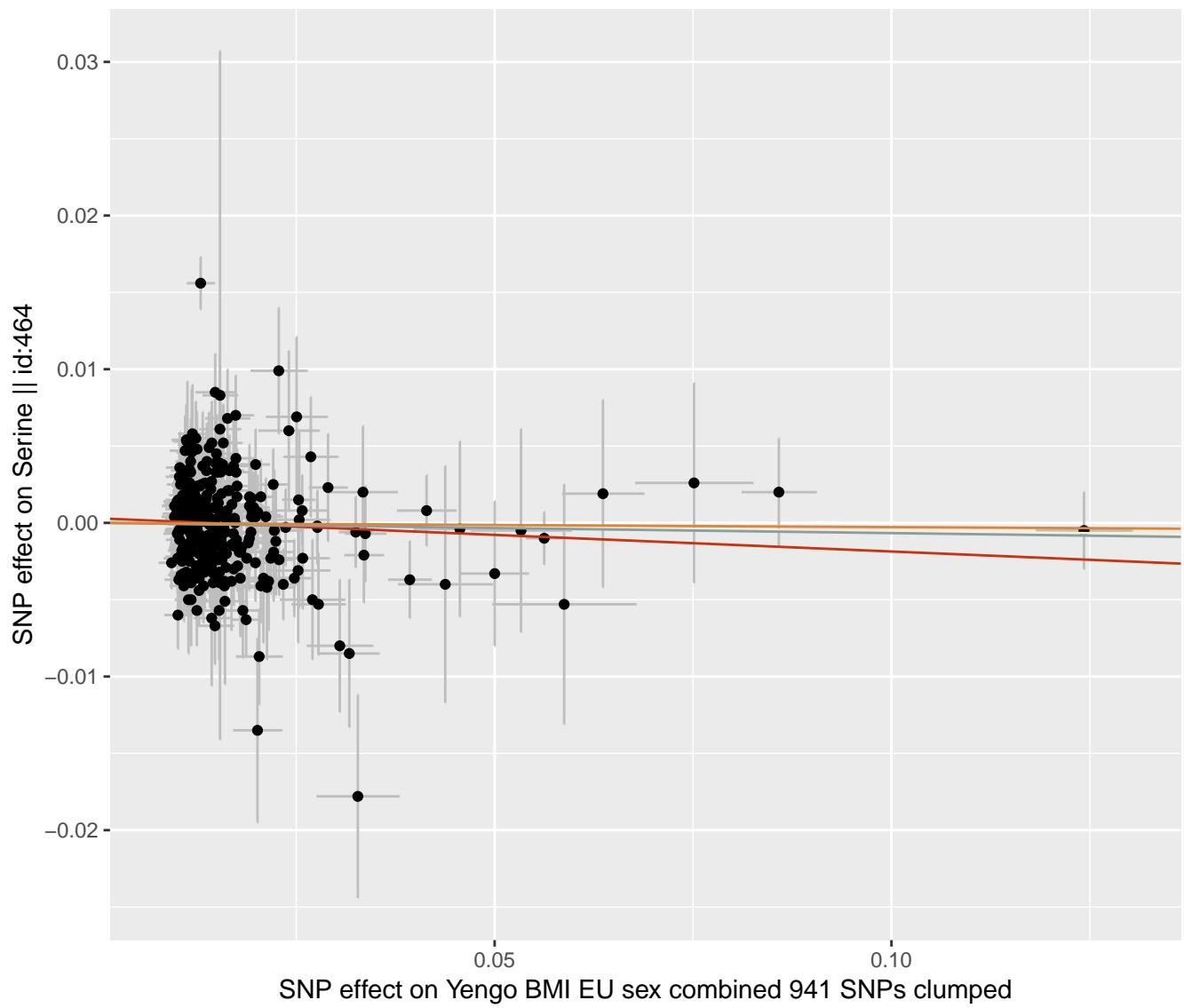
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

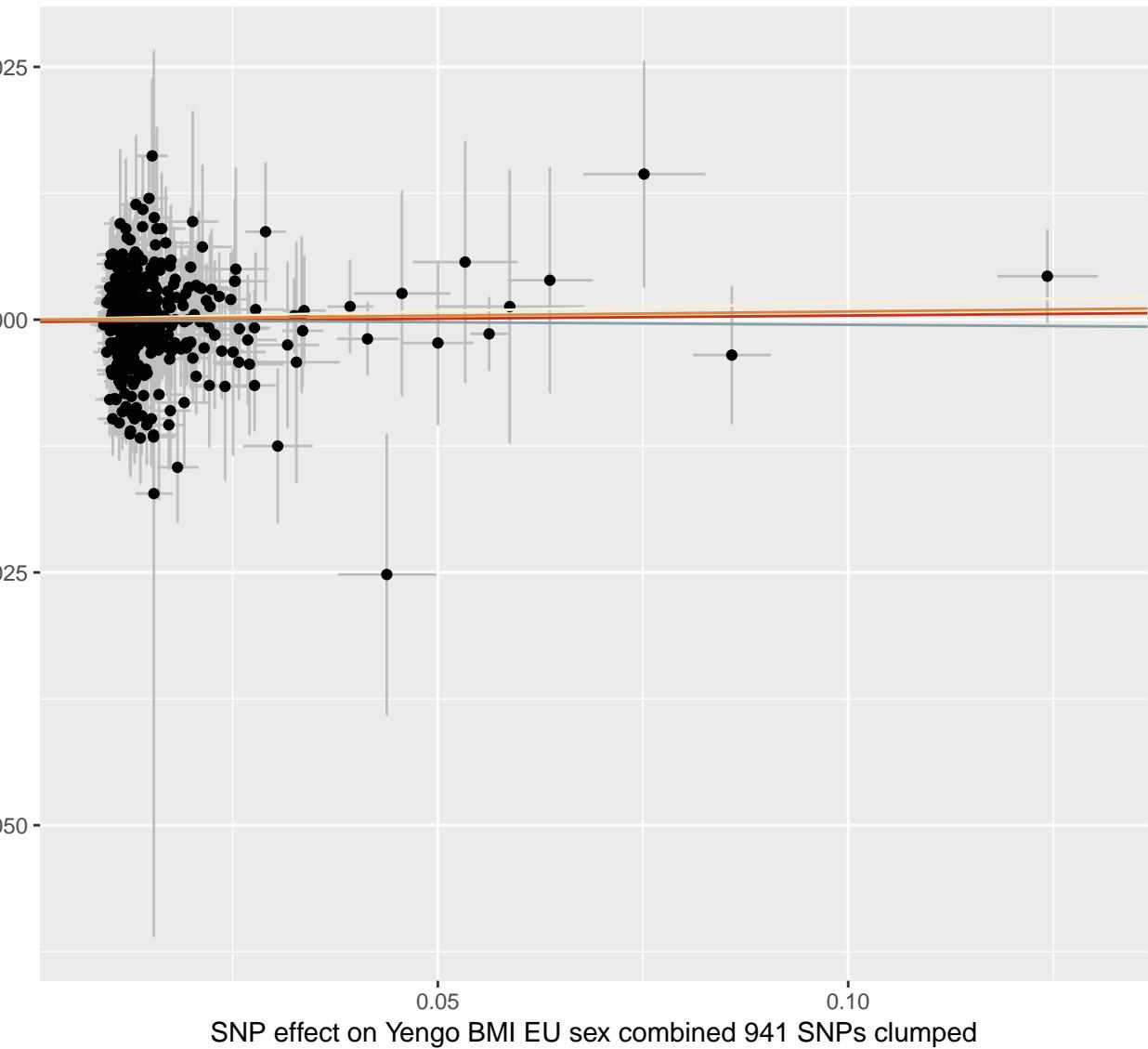


Weighted median



Weighted mode

SNP effect on Trans-4-hydroxyproline || id:465



### MR Test



Inverse variance weighted (multiplicative random effects)



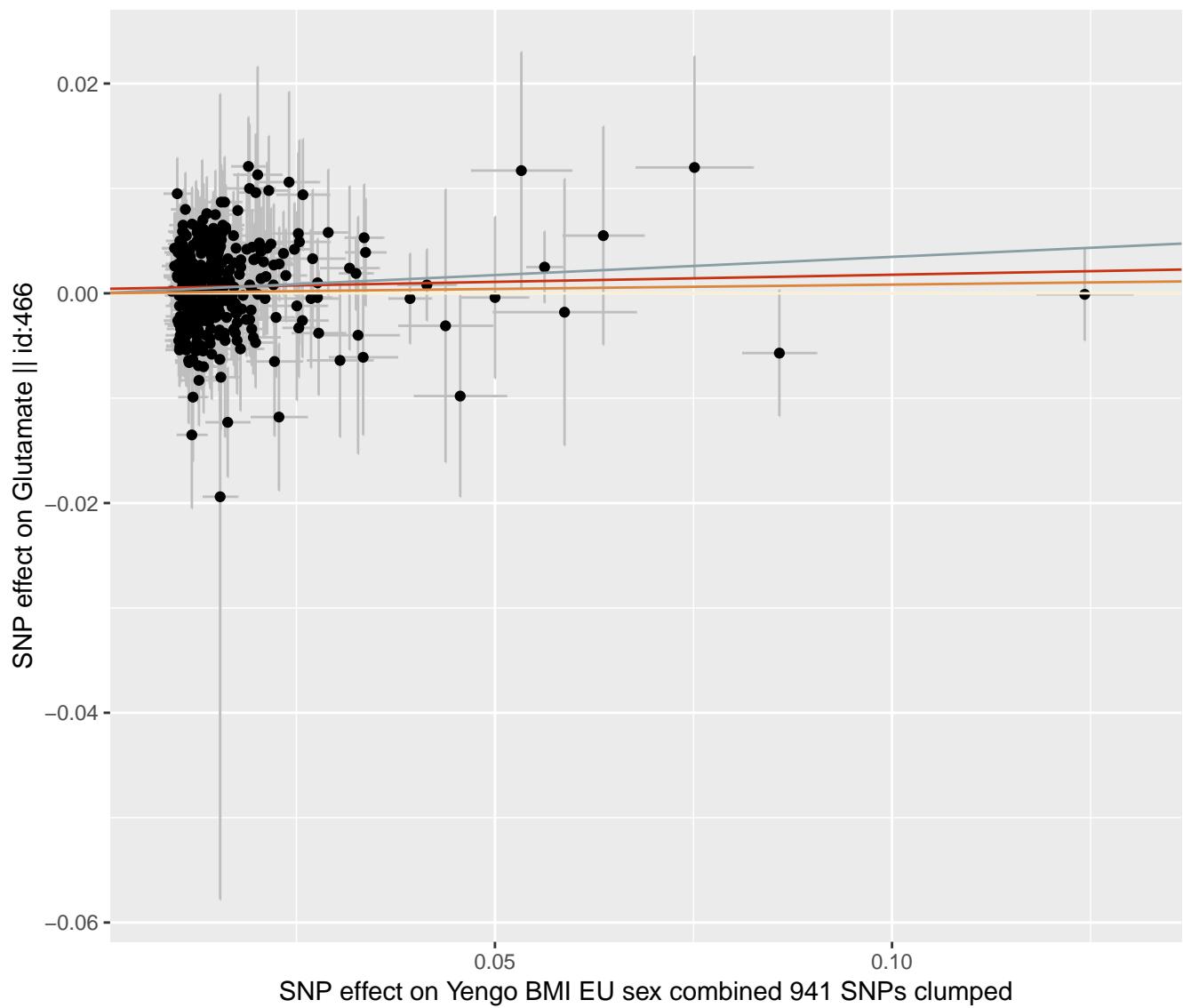
MR Egger



Weighted median



Weighted mode

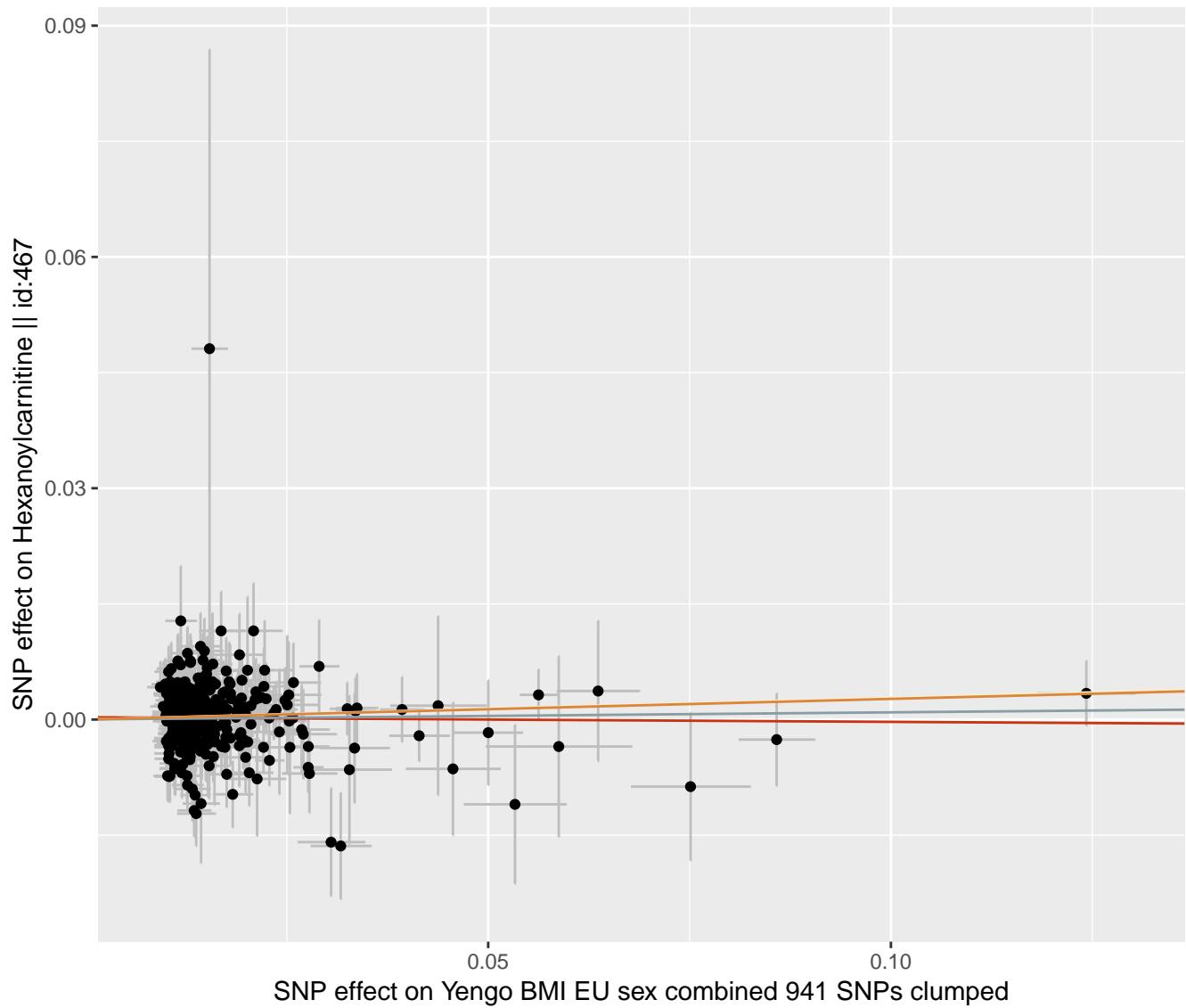


## MR Test

## Inverse variance weighted (multiplicative random effects) MR Egger

A diagram consisting of two overlapping rectangles. The top rectangle is light blue and the bottom one is light red. A yellow line starts at the top-left corner of the blue rectangle and ends at the bottom-right corner of the red rectangle. An orange line starts at the bottom-left corner of the red rectangle and ends at the top-right corner of the blue rectangle.

- Weighted median
- Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



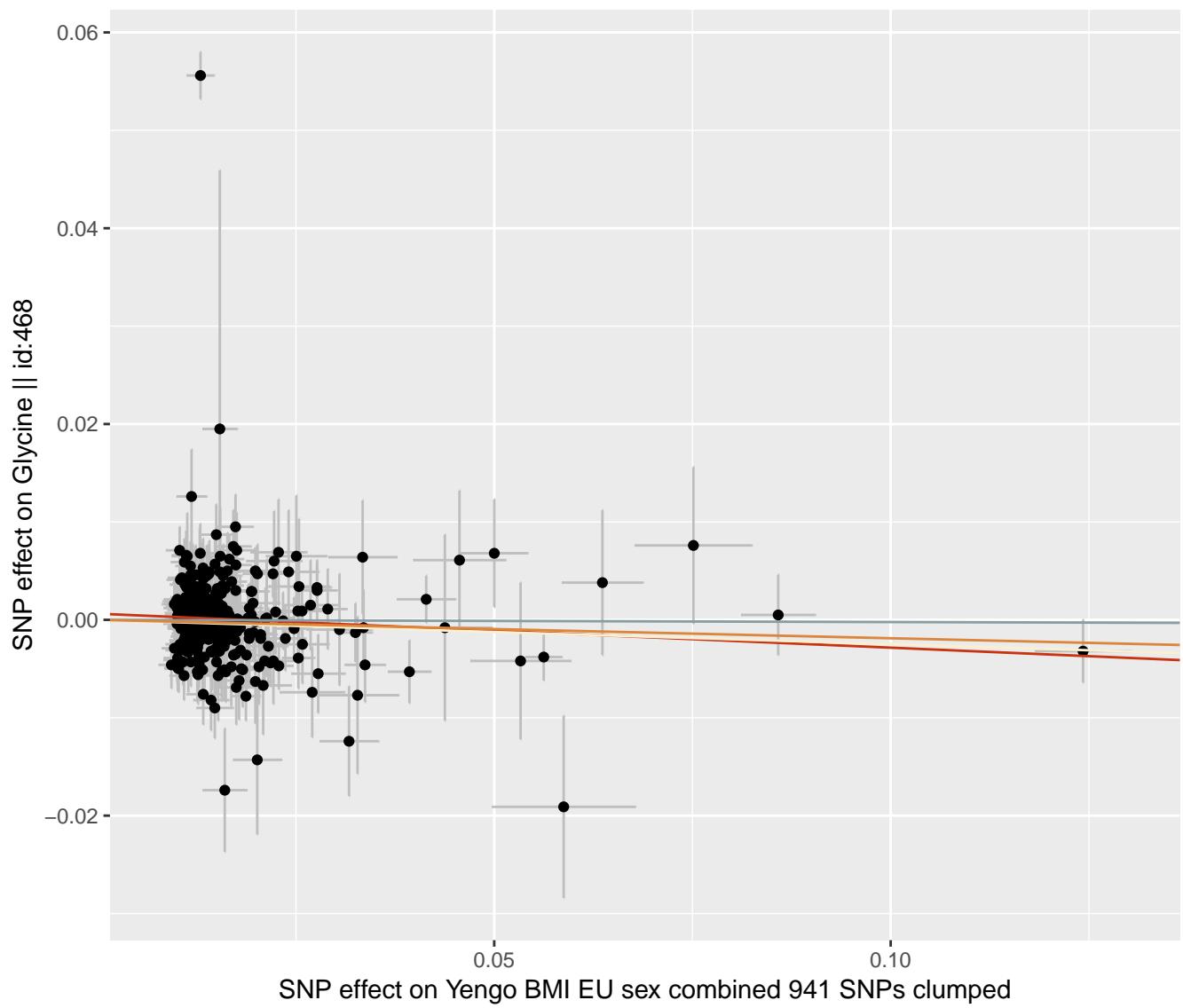
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



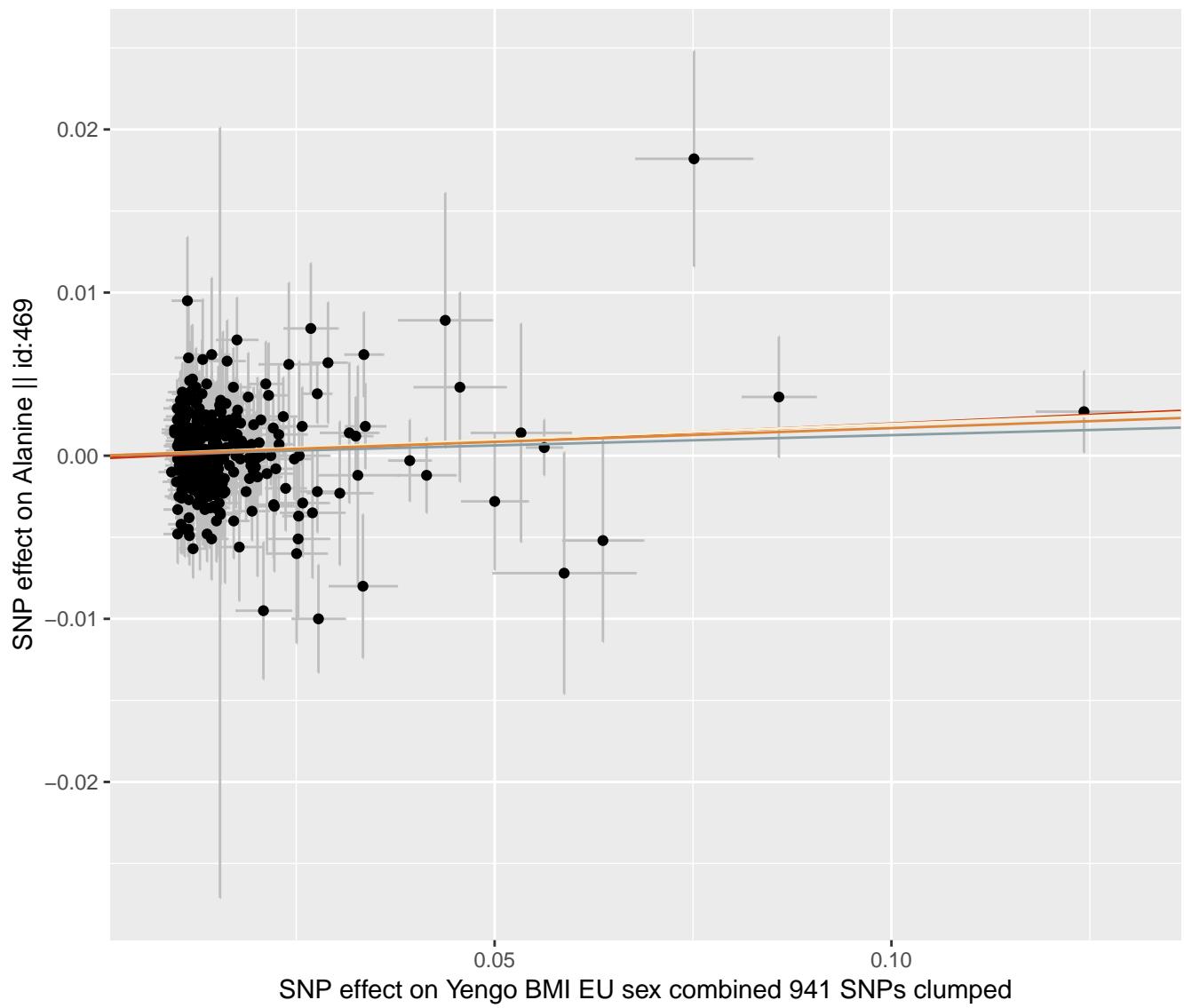
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



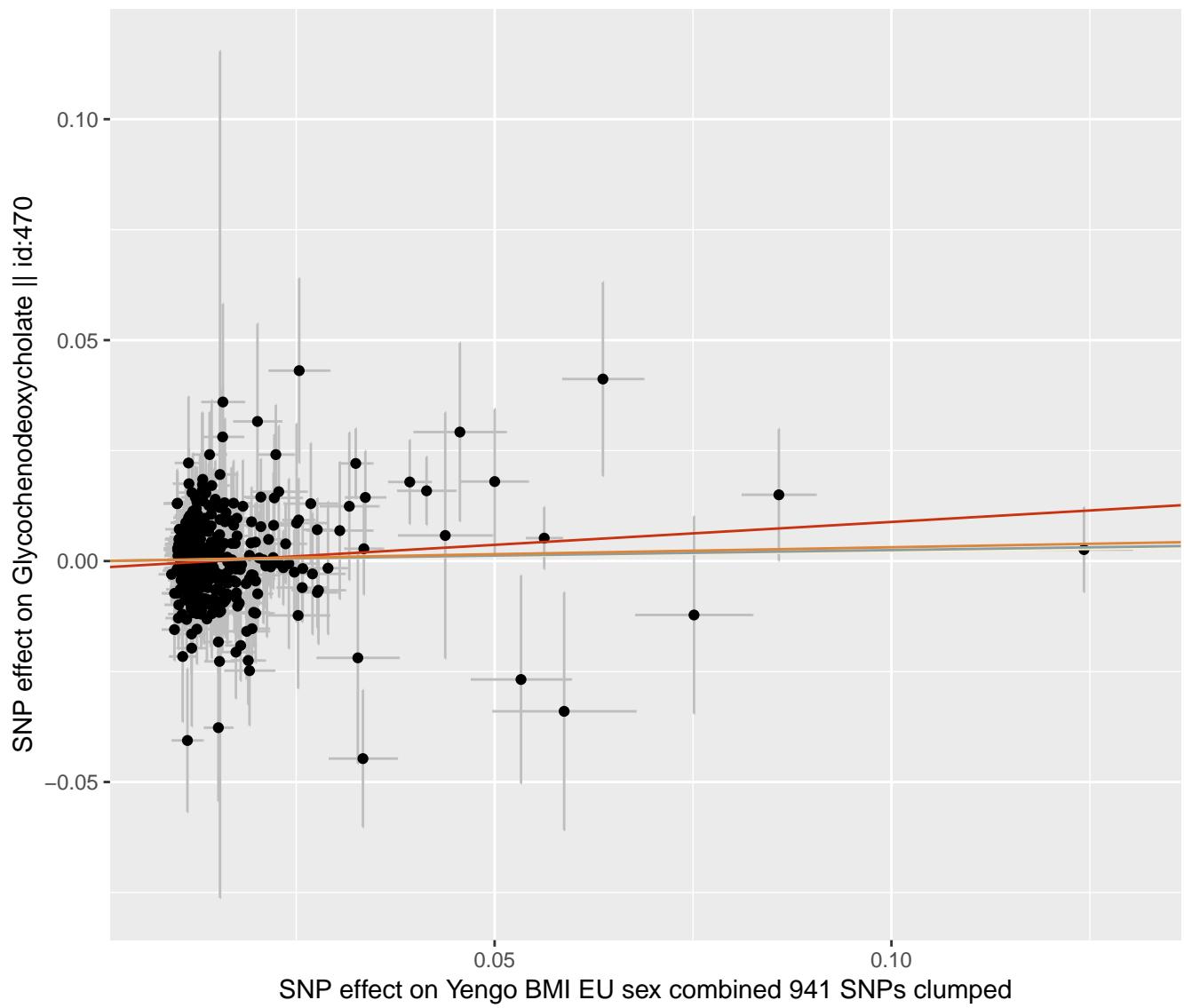
MR Egger



Weighted median

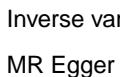


Weighted mode

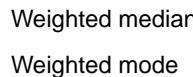


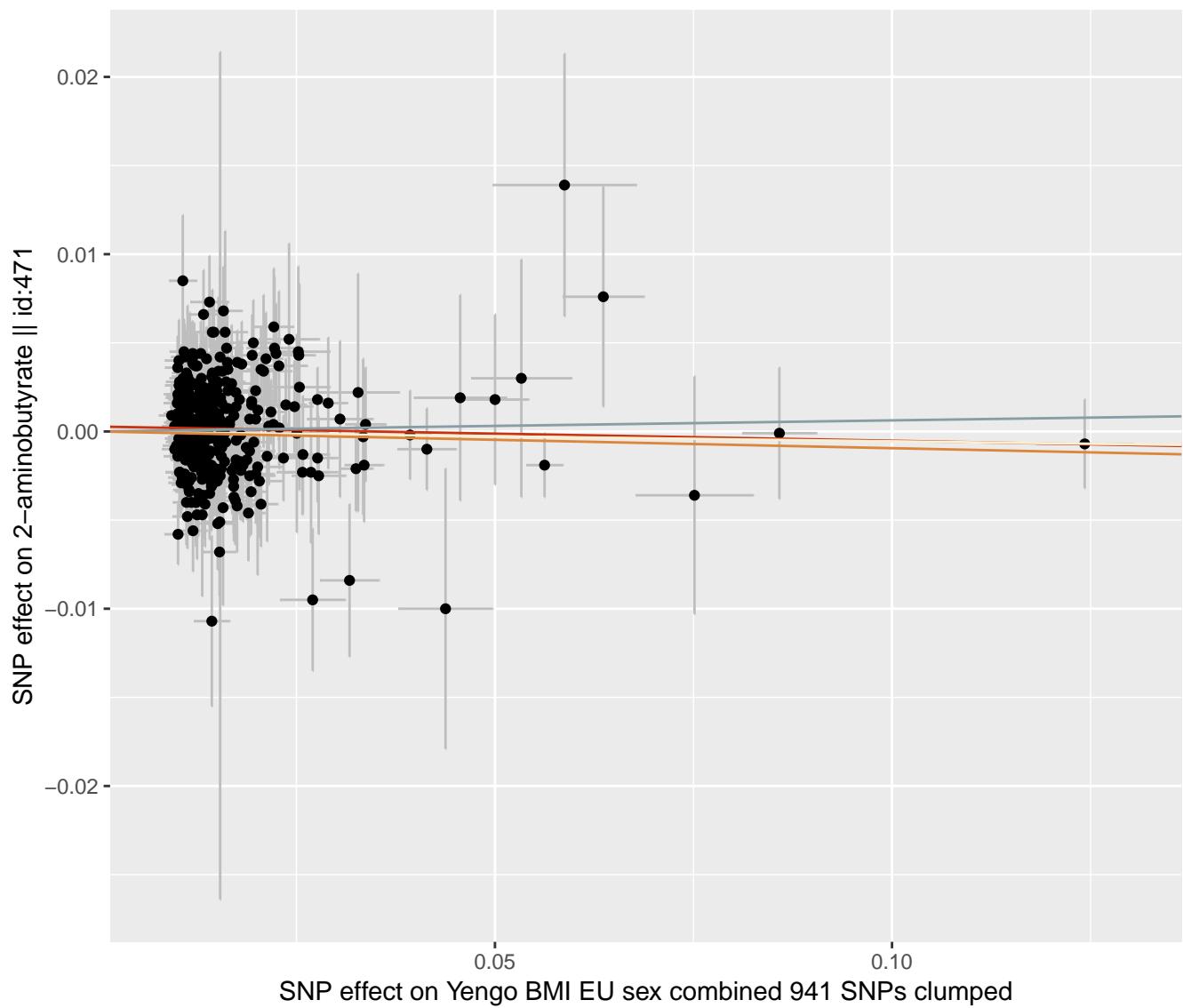
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



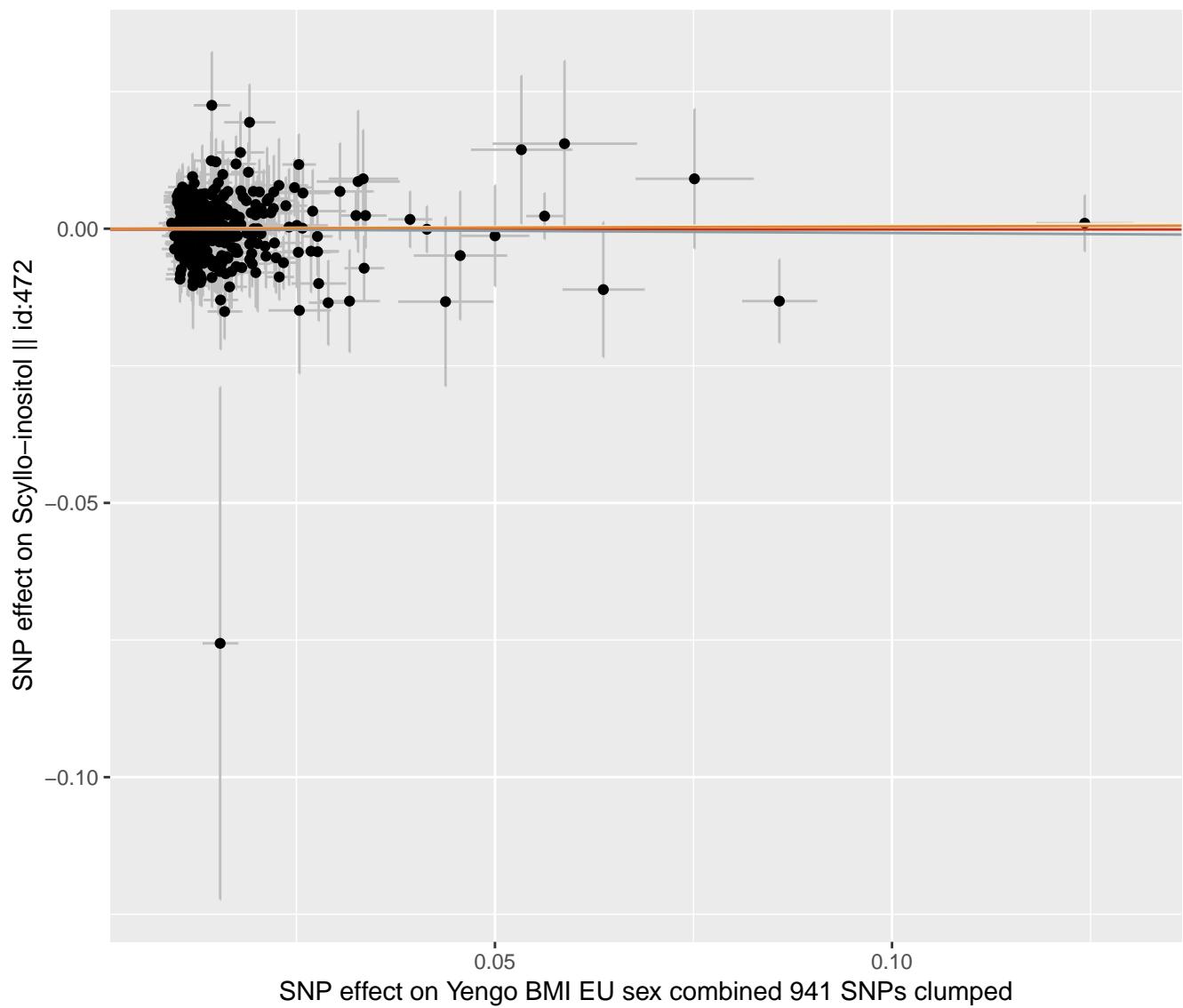
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

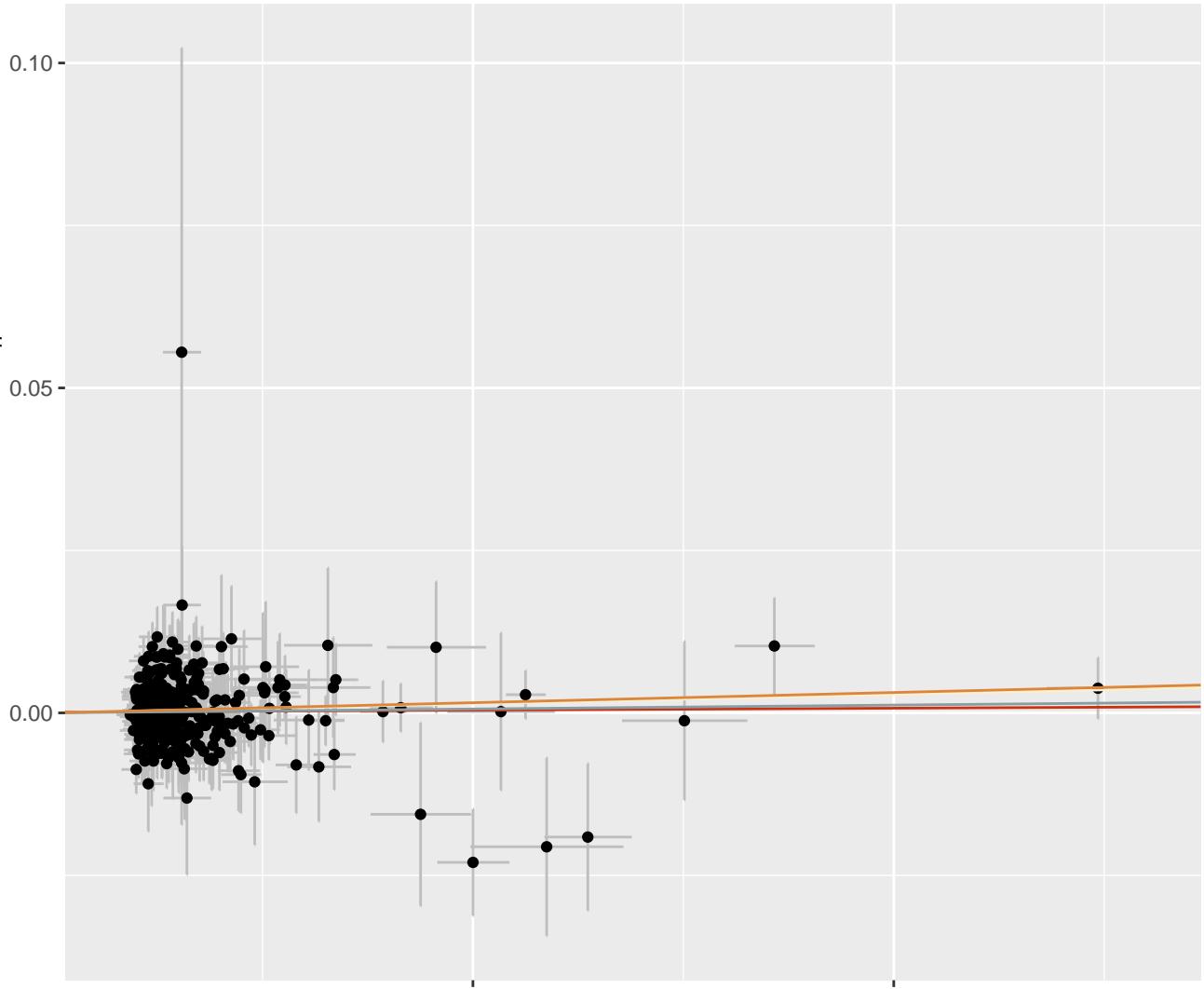


Weighted median



Weighted mode

SNP effect on Dodecanedioate || id:473



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



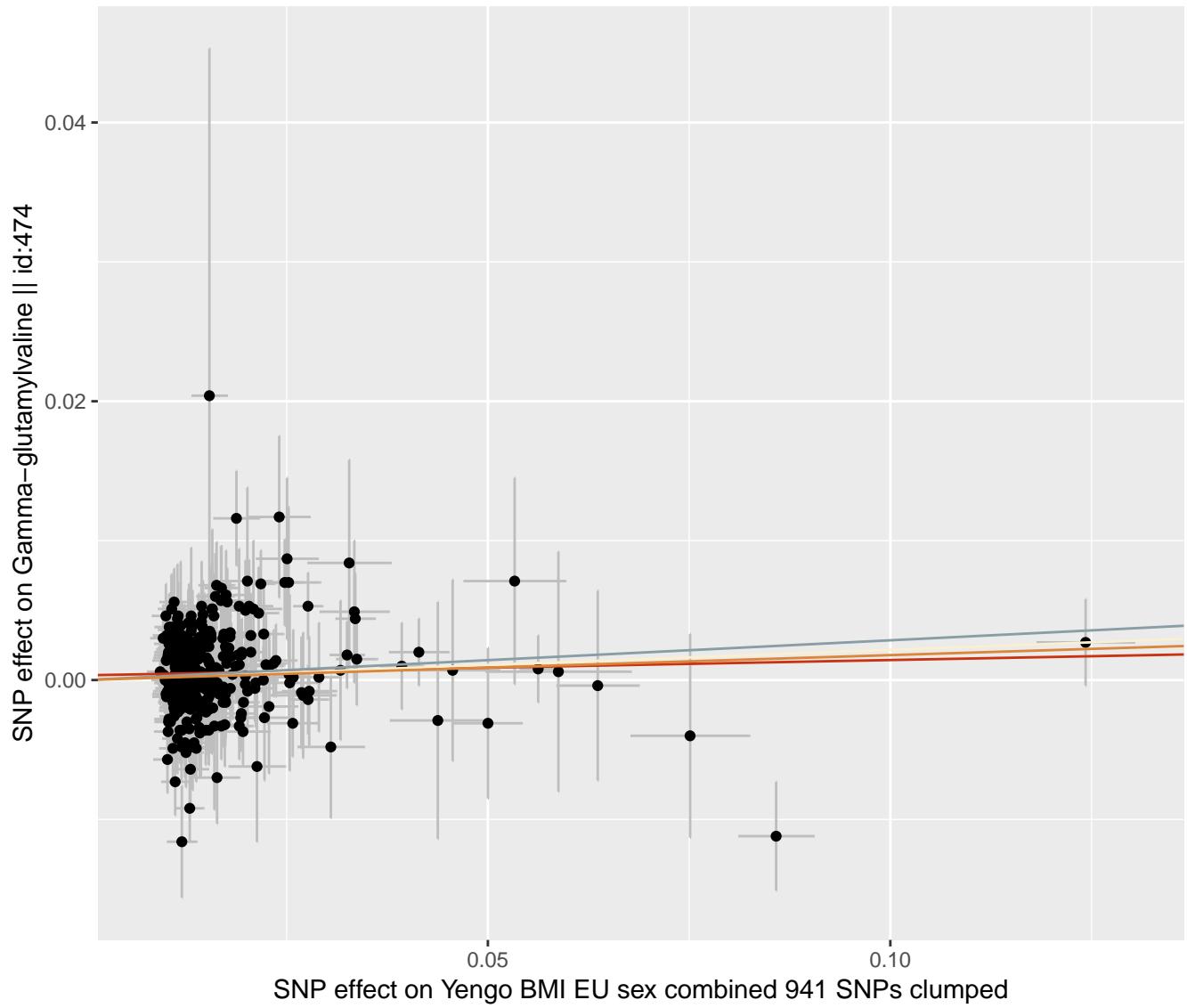
MR Egger



Weighted median

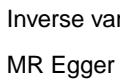


Weighted mode

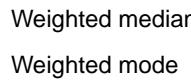


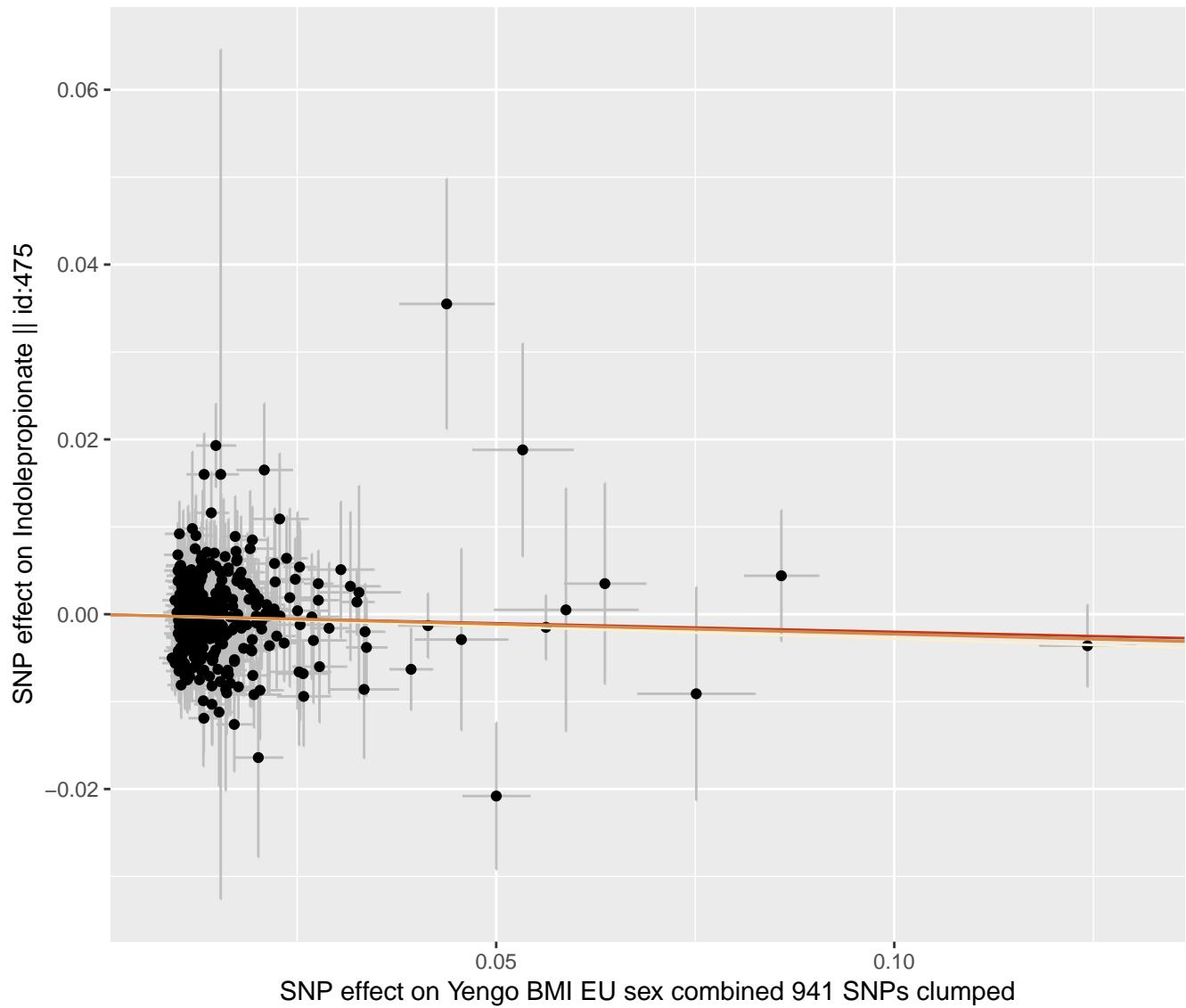
# MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

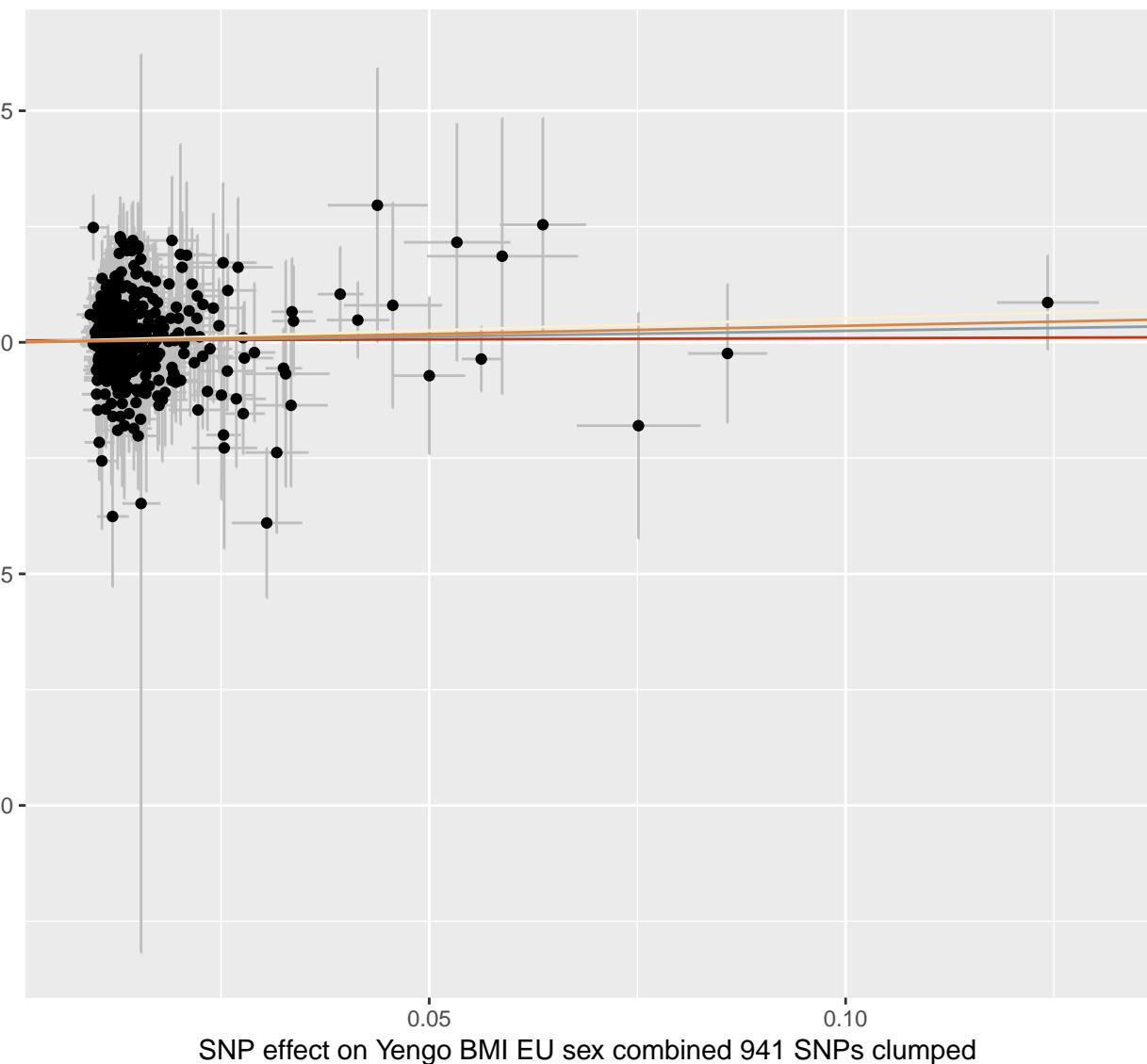


Weighted median



Weighted mode

SNP effect on Butyrylcarnitine || id:476



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

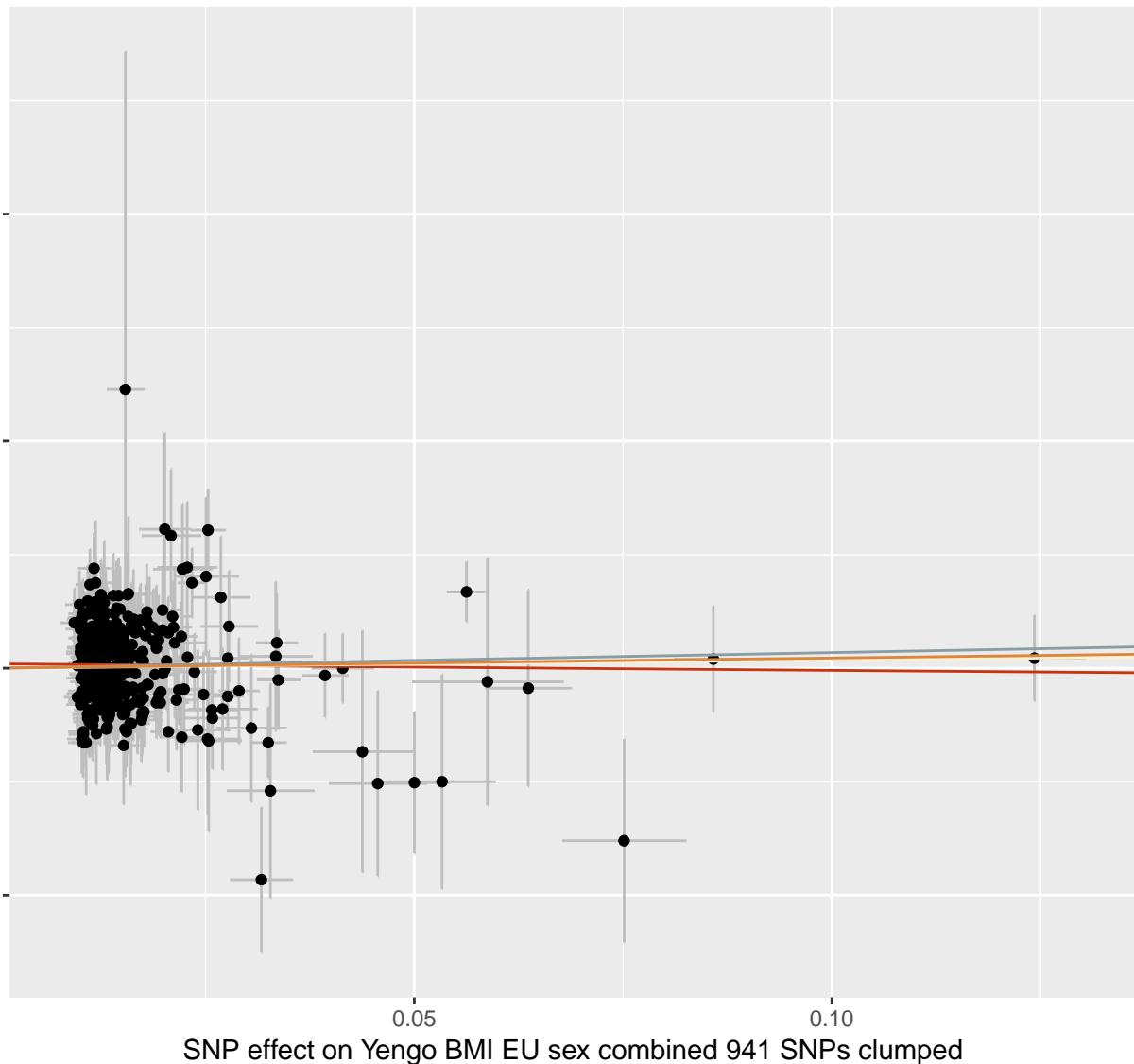


Weighted median



Weighted mode

SNP effect on Myristoleate (14:1n5) || id:477



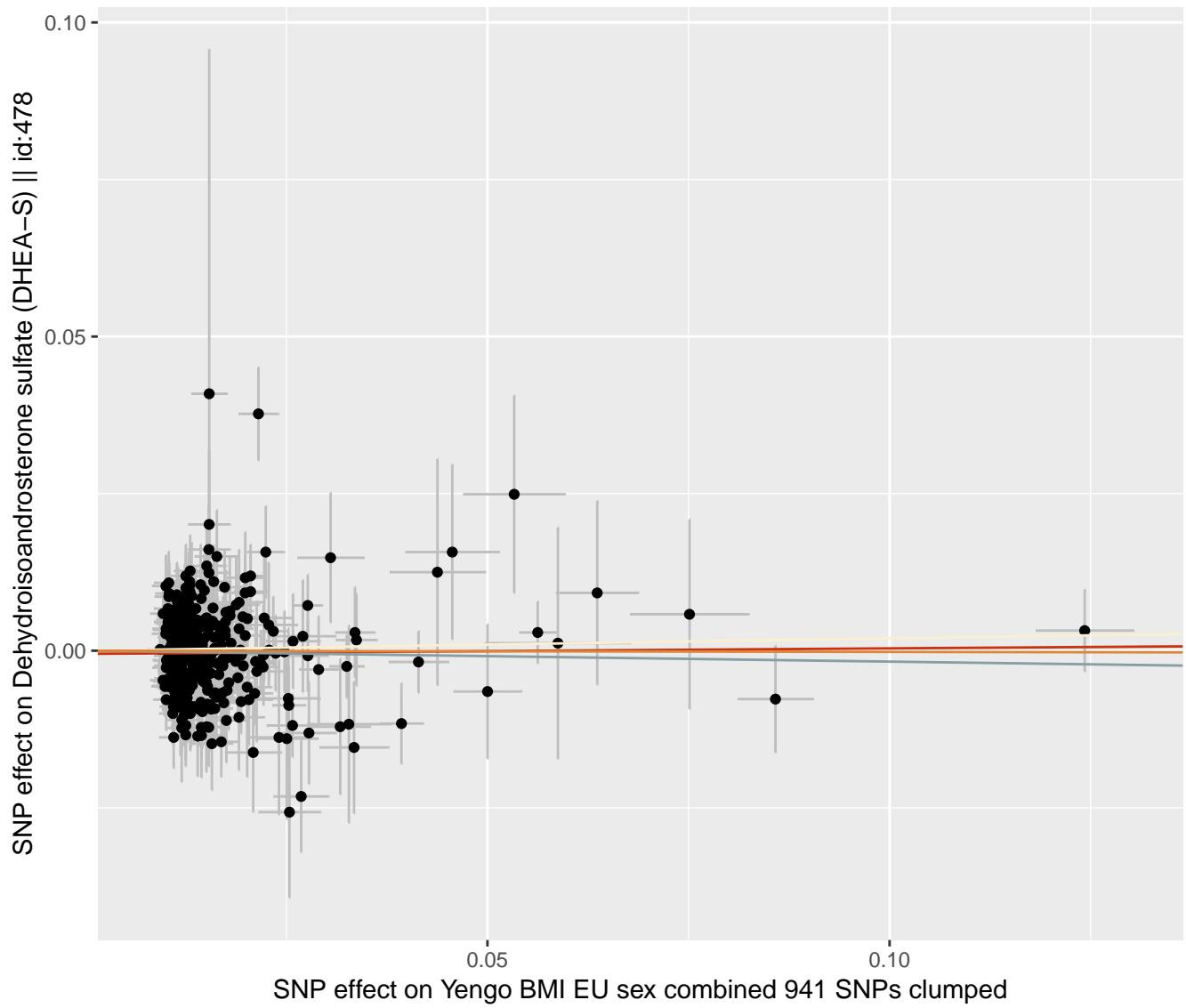
## MR Test

### Inverse variance weighted (multiplicative random effects)

MR Egger

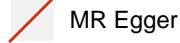
## Weighted median

### Weighted mode



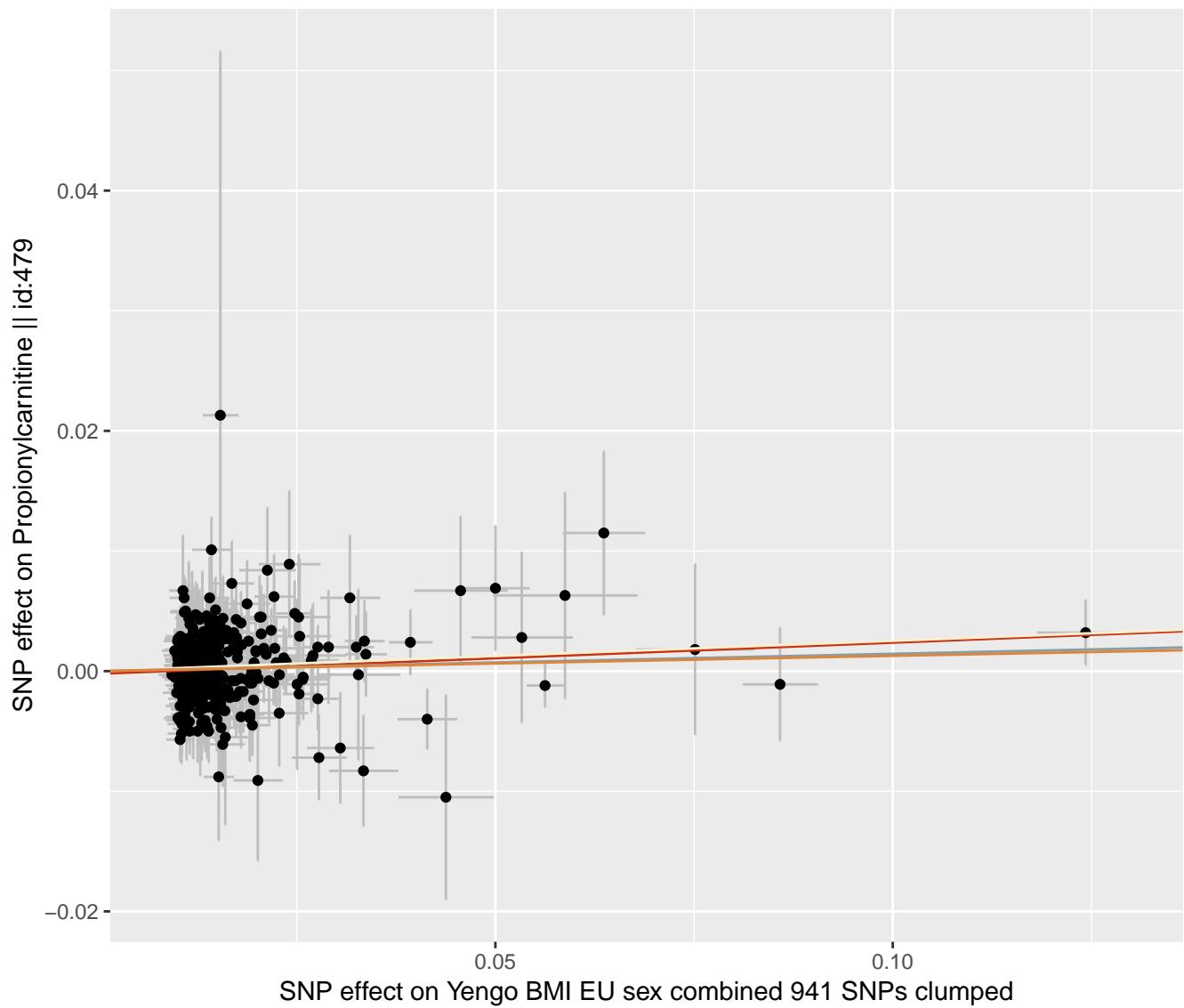
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



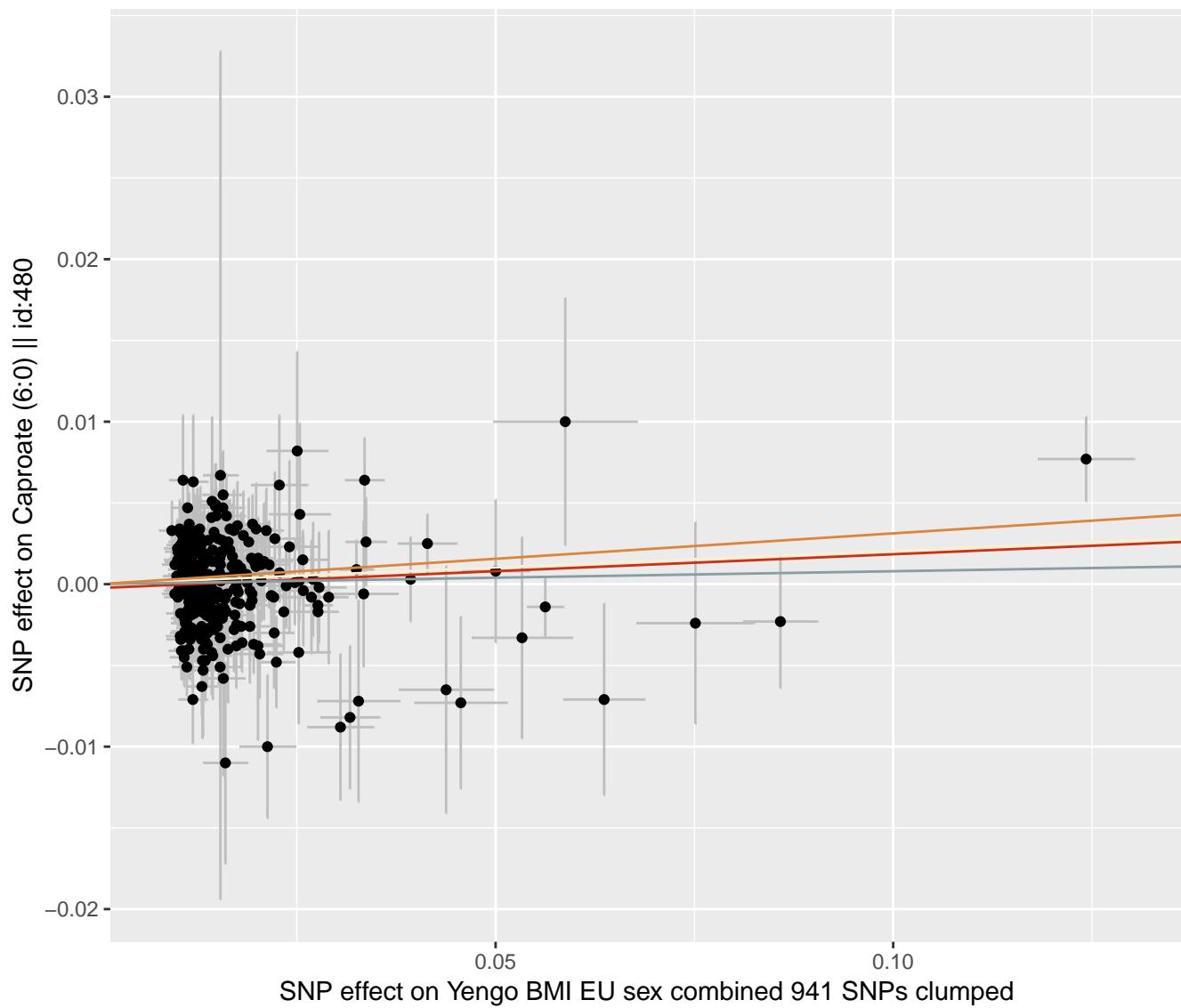
MR Egger



Weighted median



Weighted mode



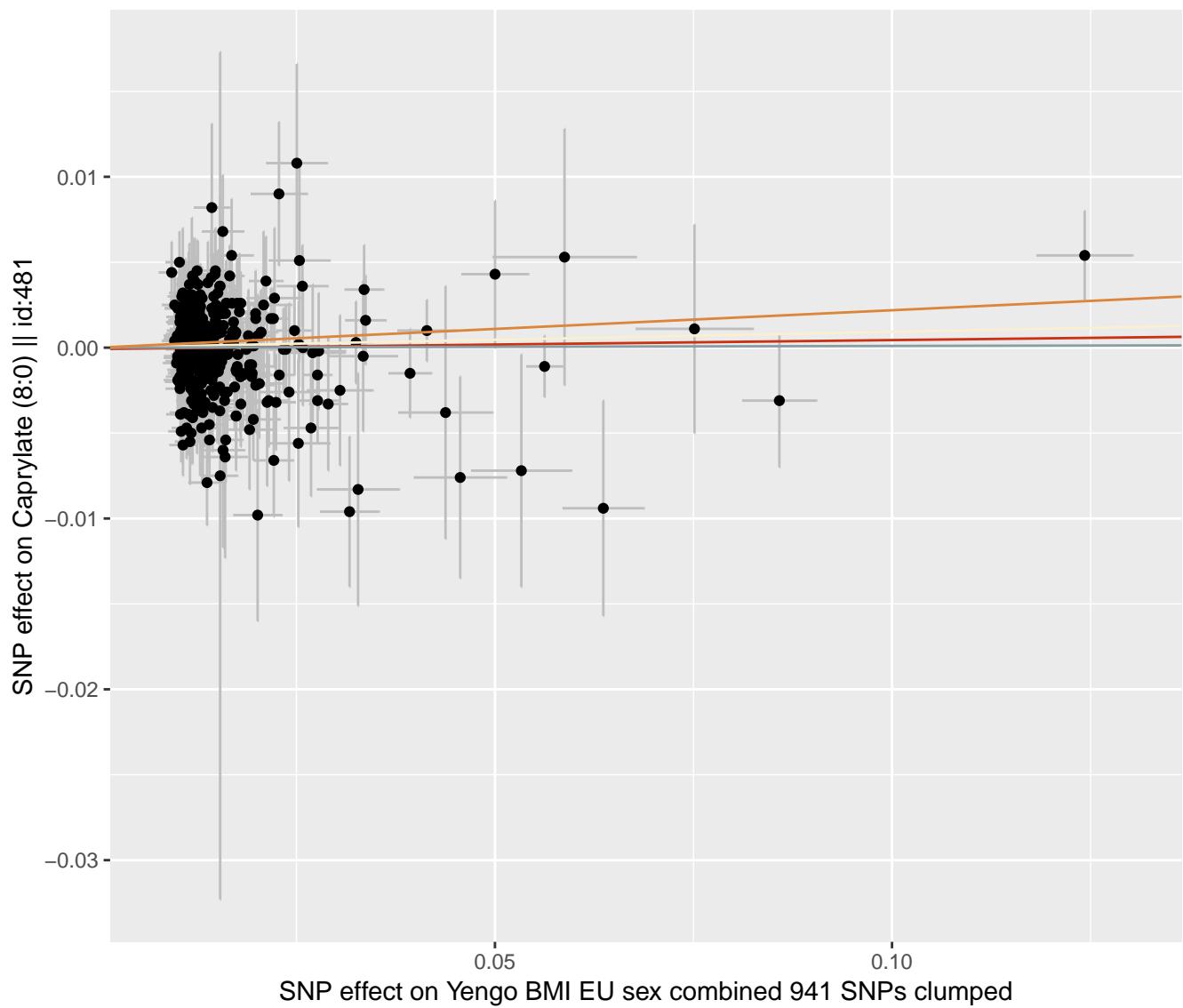
# MR Test

Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on 10-undecenoate (11:1n1) || id:482

0.050

0.025

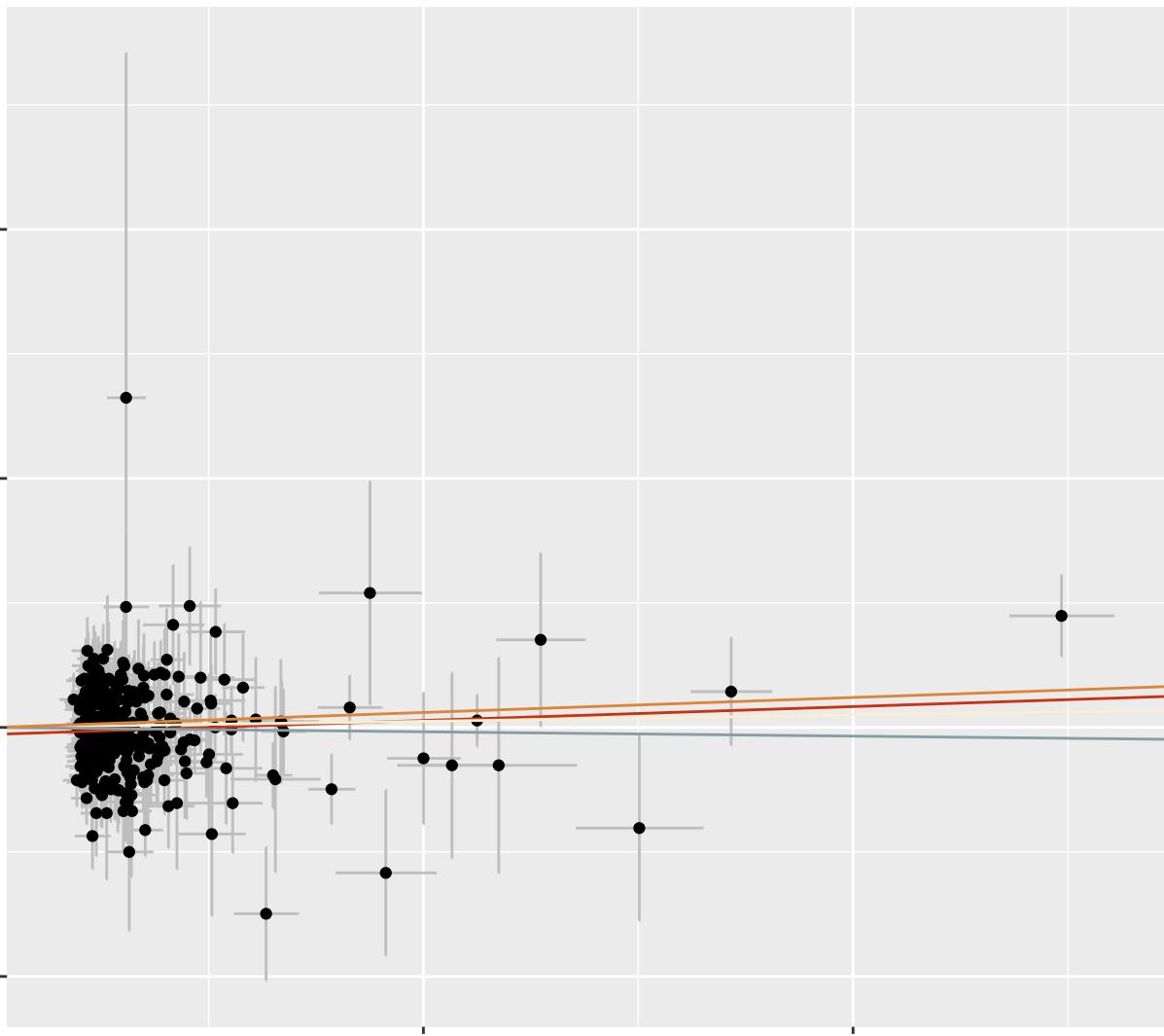
0.000

-0.025

0.05

0.10

SNP effect on Yengo BMI EU sex combined 941 SNPs clumped



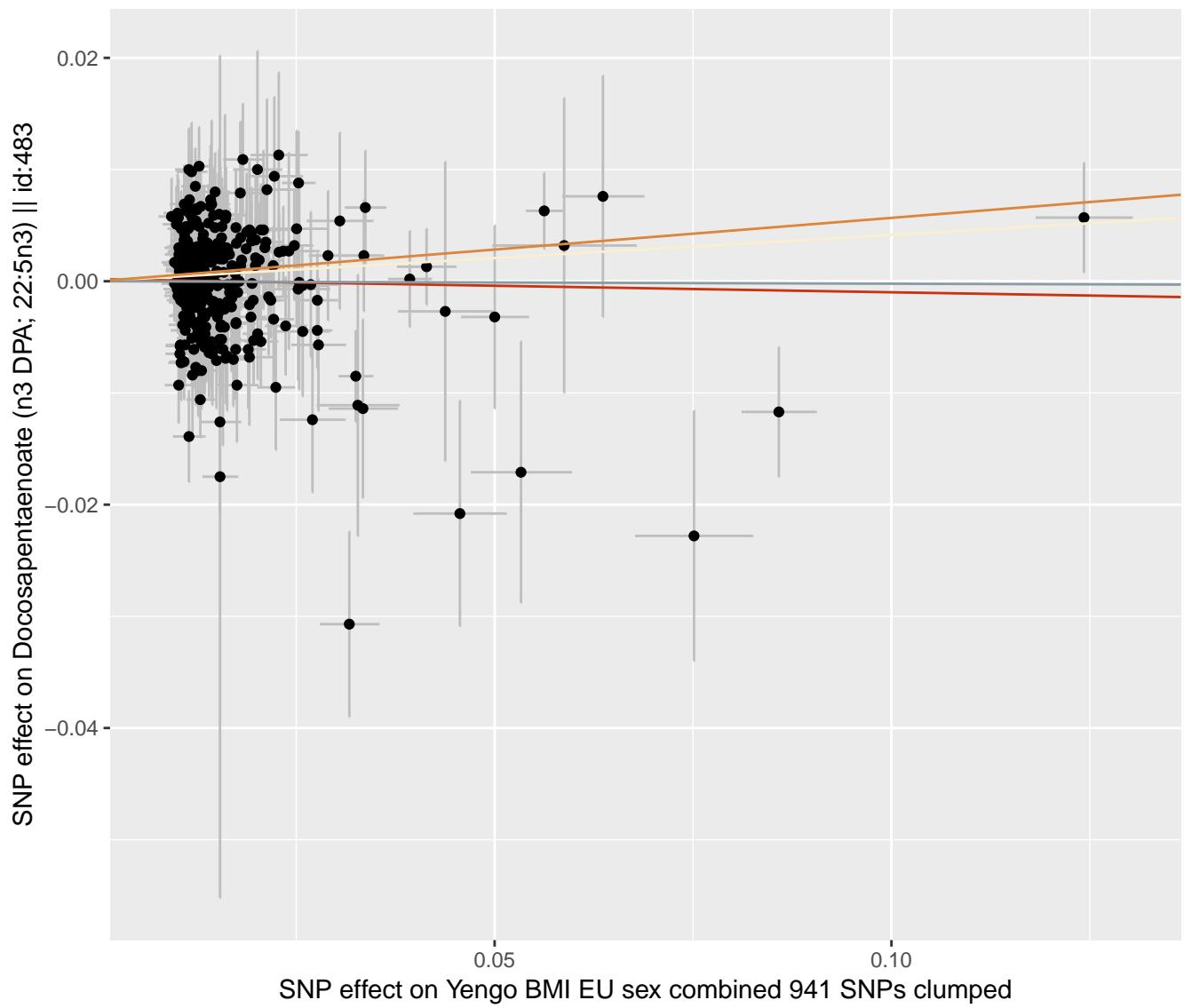
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test

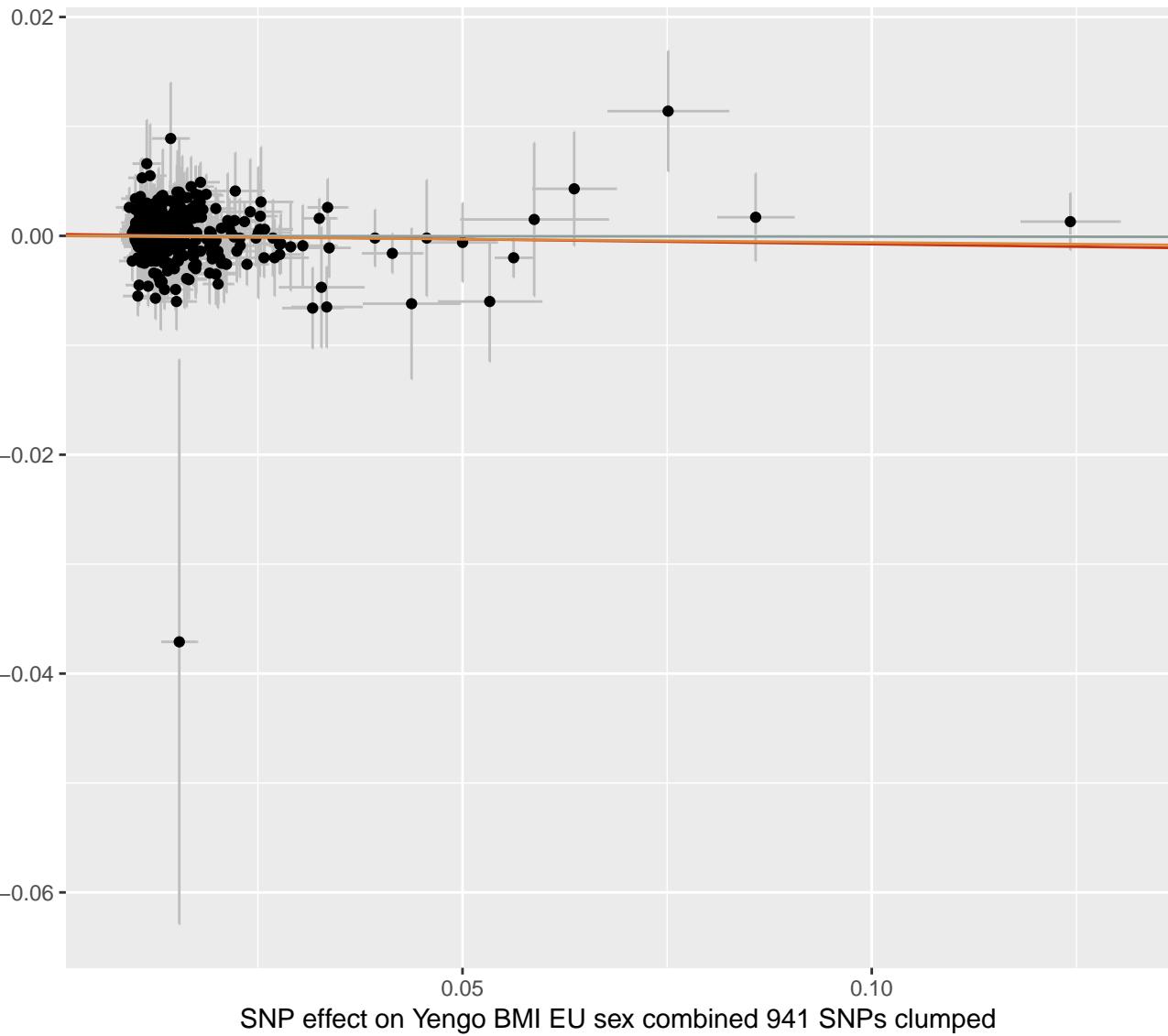
 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode

SNP effect on X-11204 || id:484



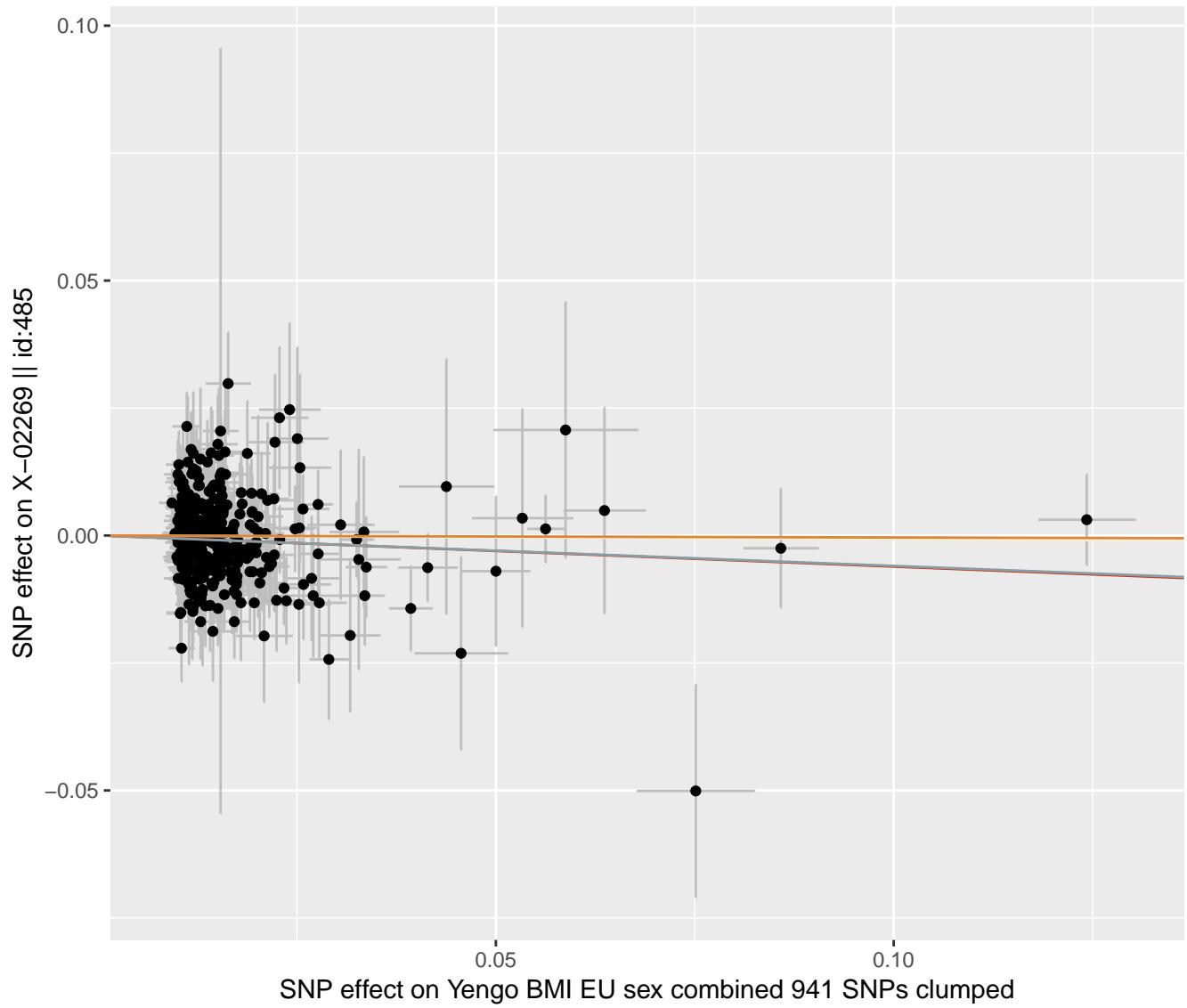
## MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



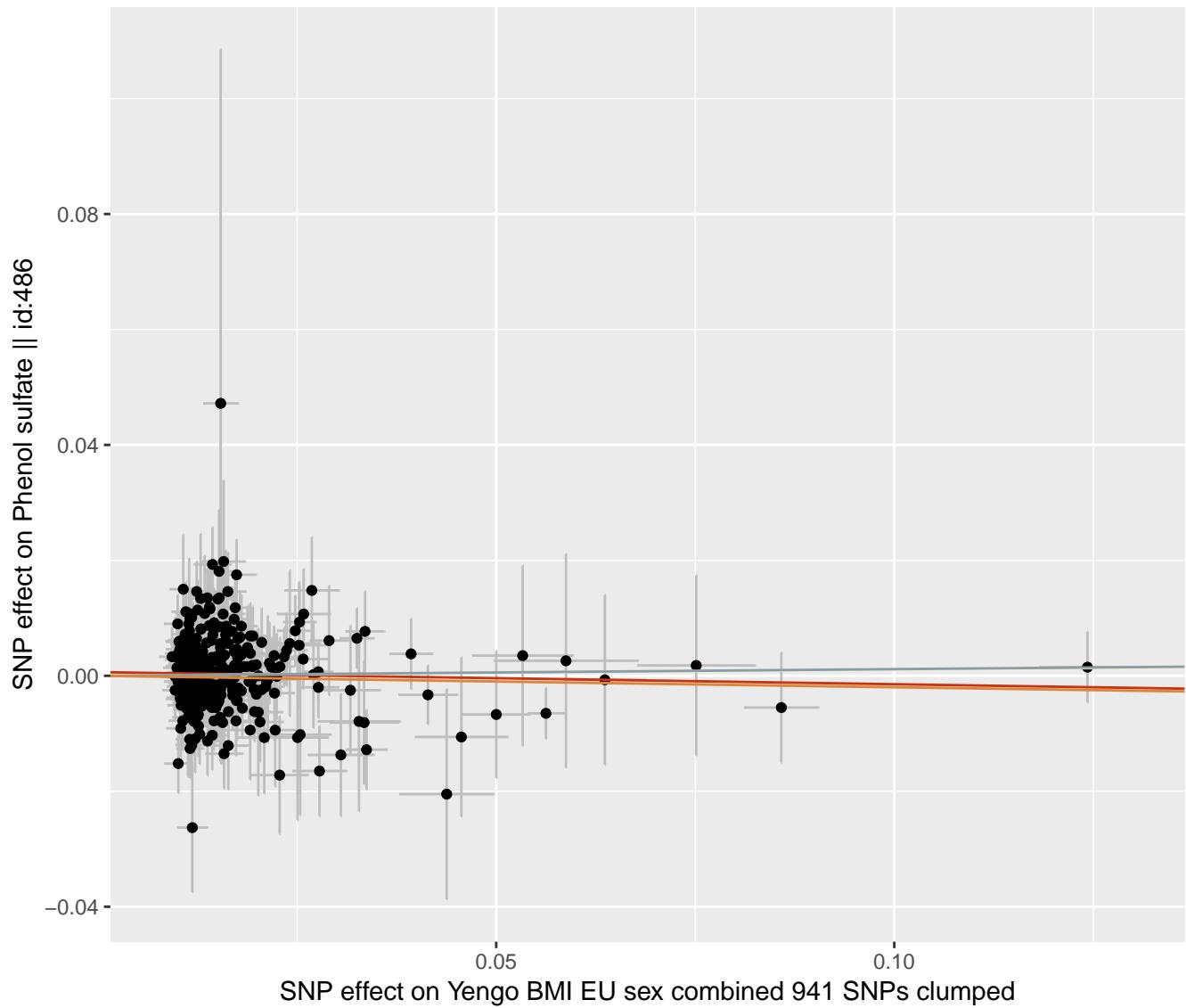
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



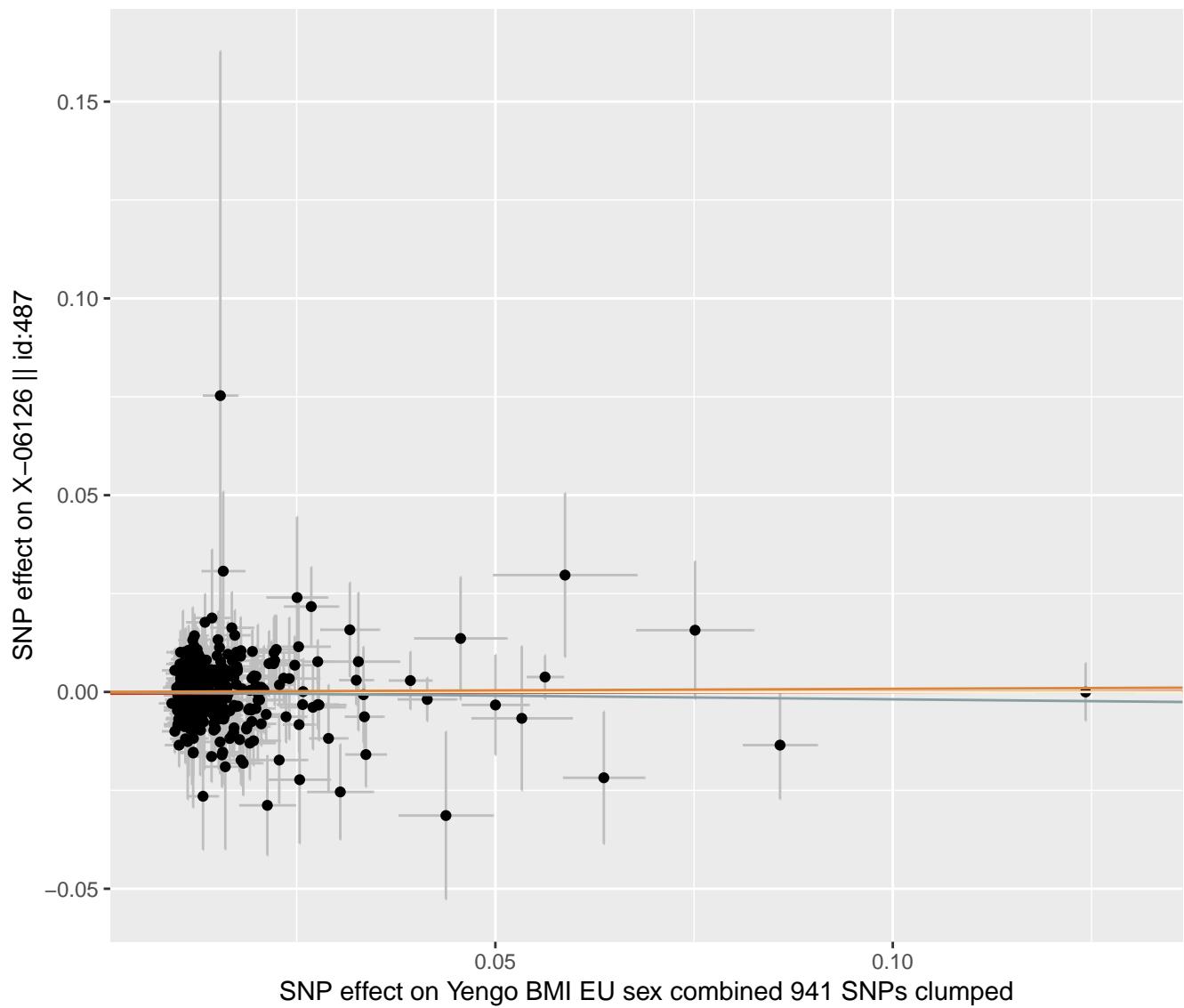
MR Egger



Weighted median



Weighted mode



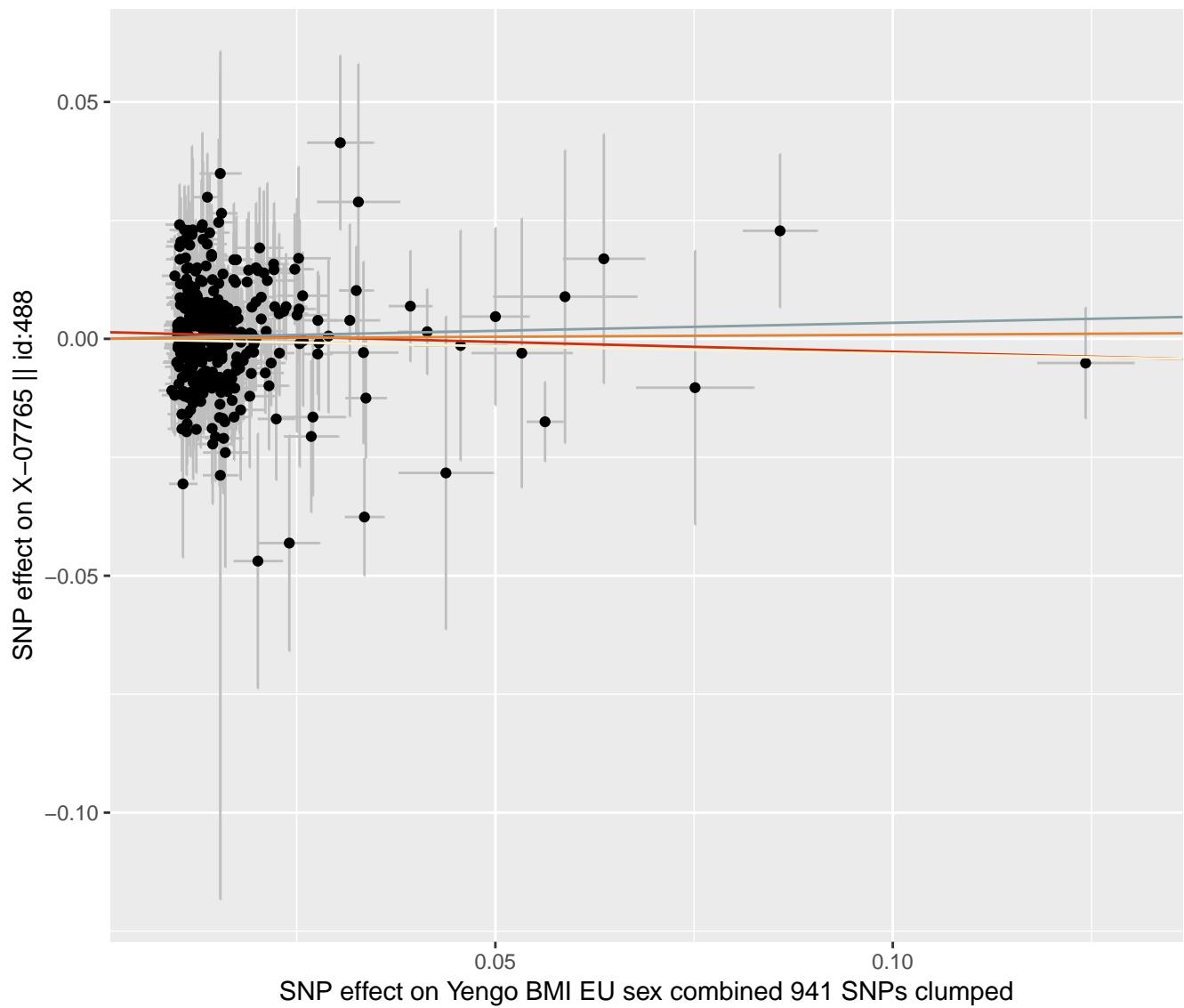
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



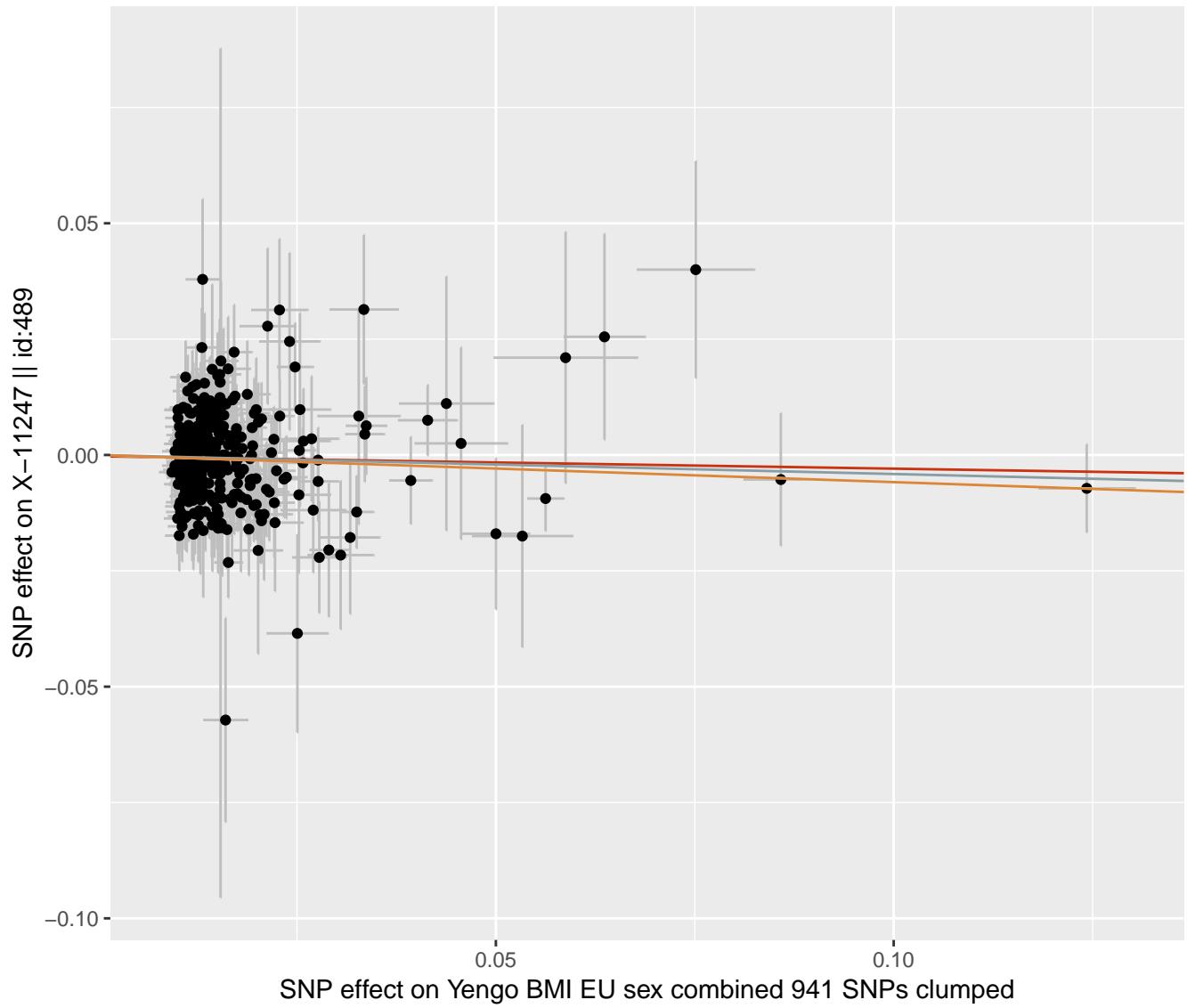
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

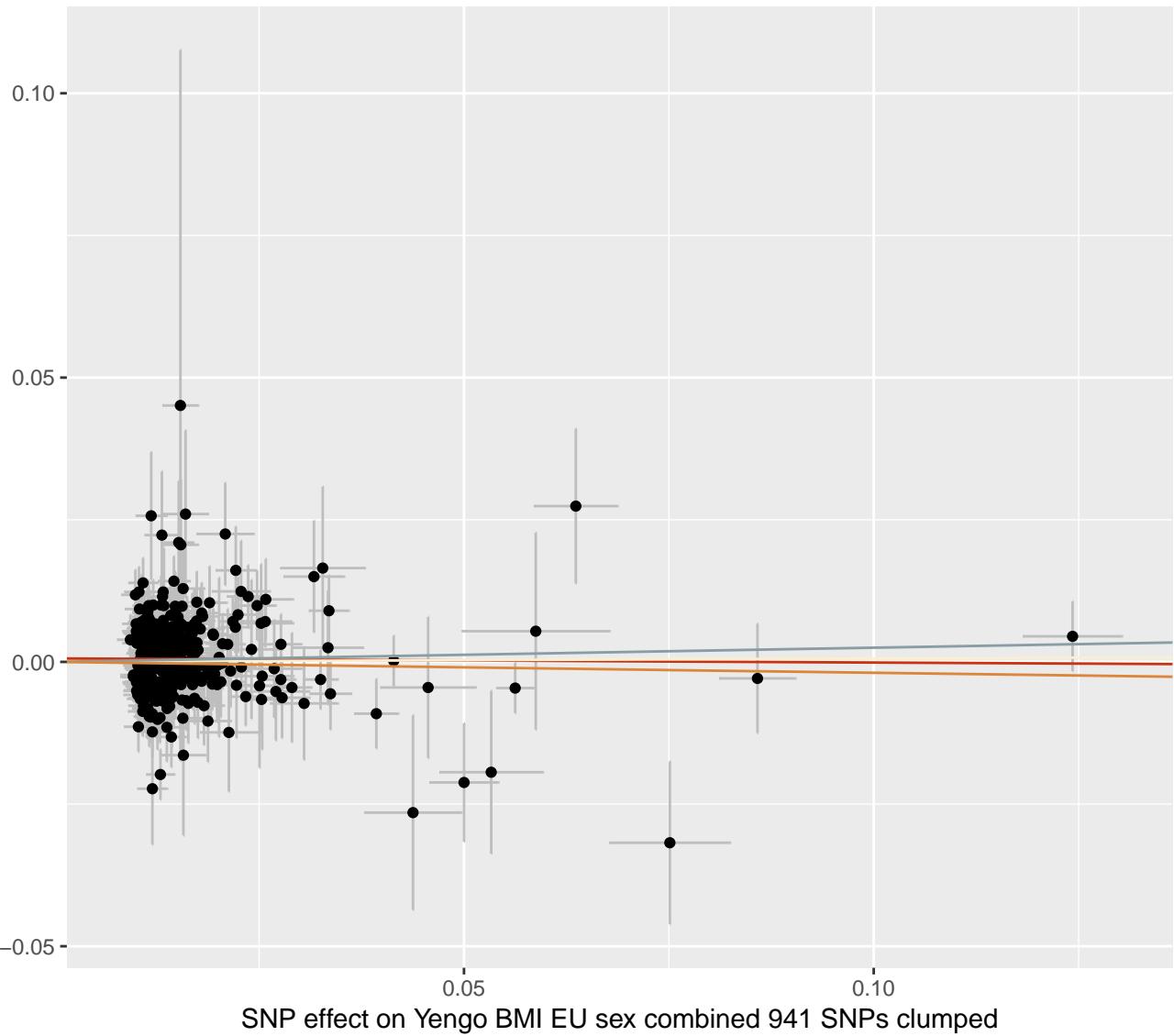


Weighted median



Weighted mode

SNP effect on X-11261 || id:490



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



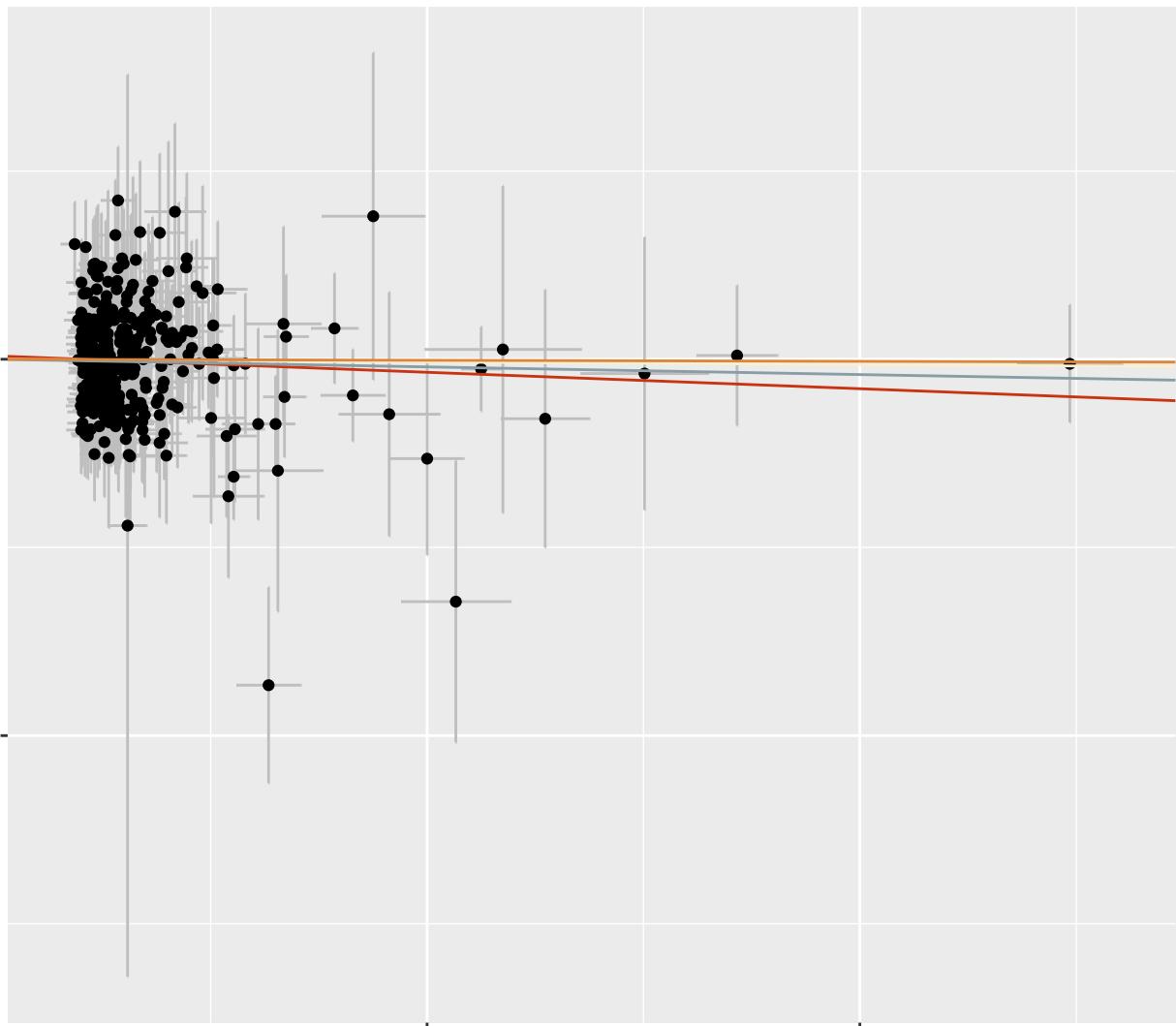
Weighted median



Weighted mode

SNP effect on Bilirubin (E,E\*) || id:491

0.00  
-0.05



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on X-022249 || id:492

0.06

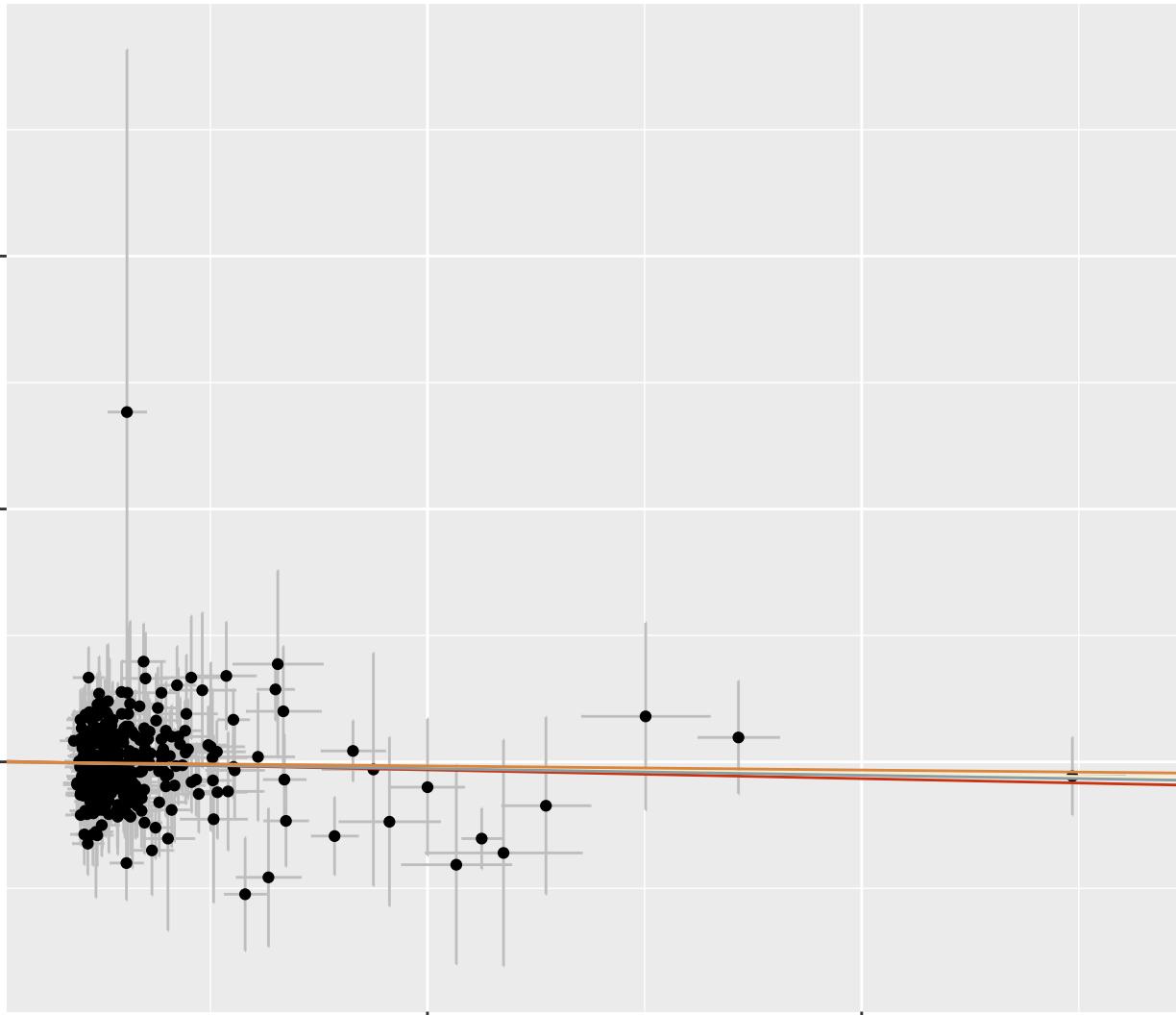
0.03

0.00

0.05

0.10

SNP effect on Yengo BMI EU sex combined 941 SNPs clumped



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

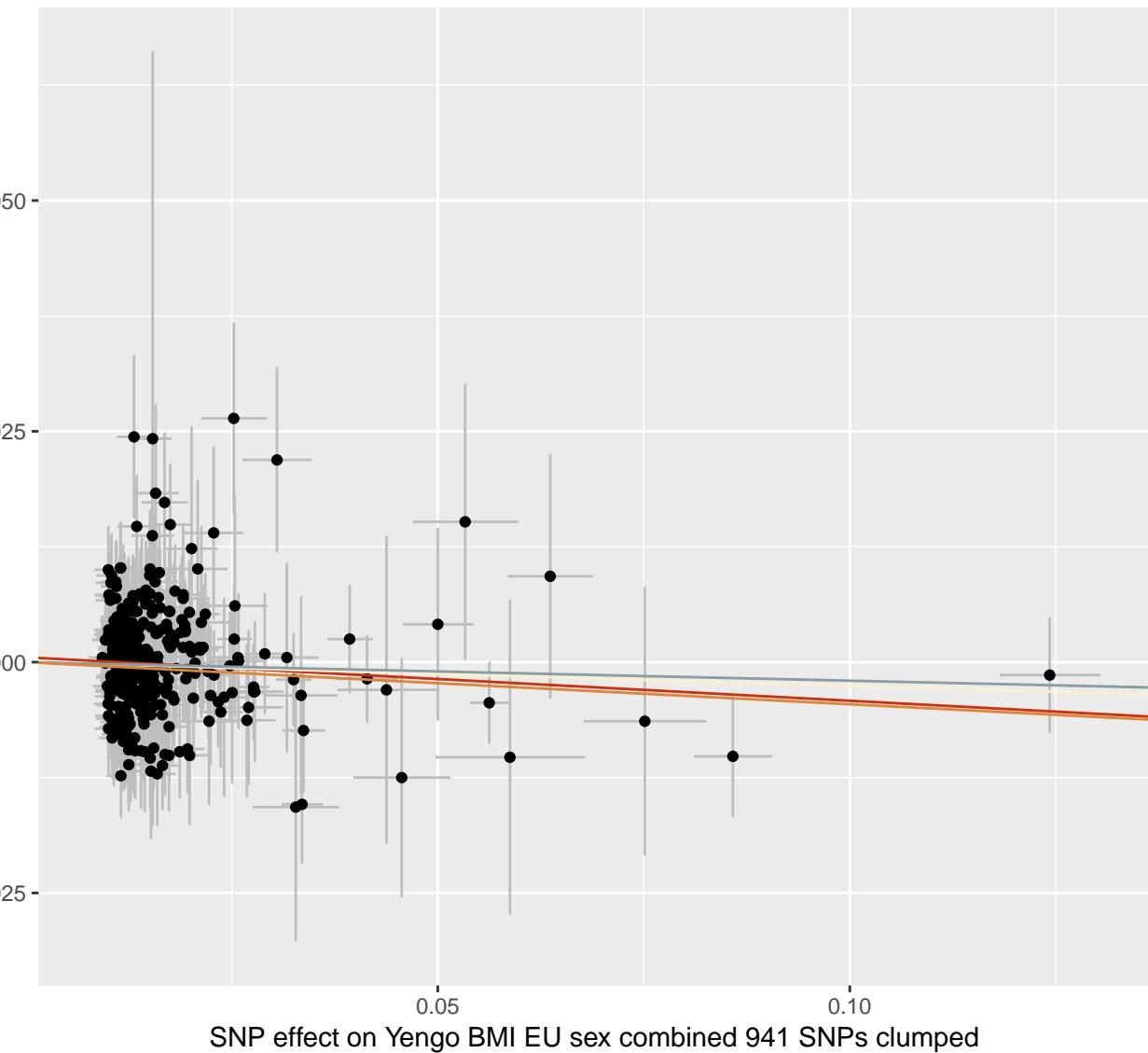


Weighted median



Weighted mode

SNP effect on Heme\* || id:493



## MR Test



Inverse variance weighted (multiplicative random effects)



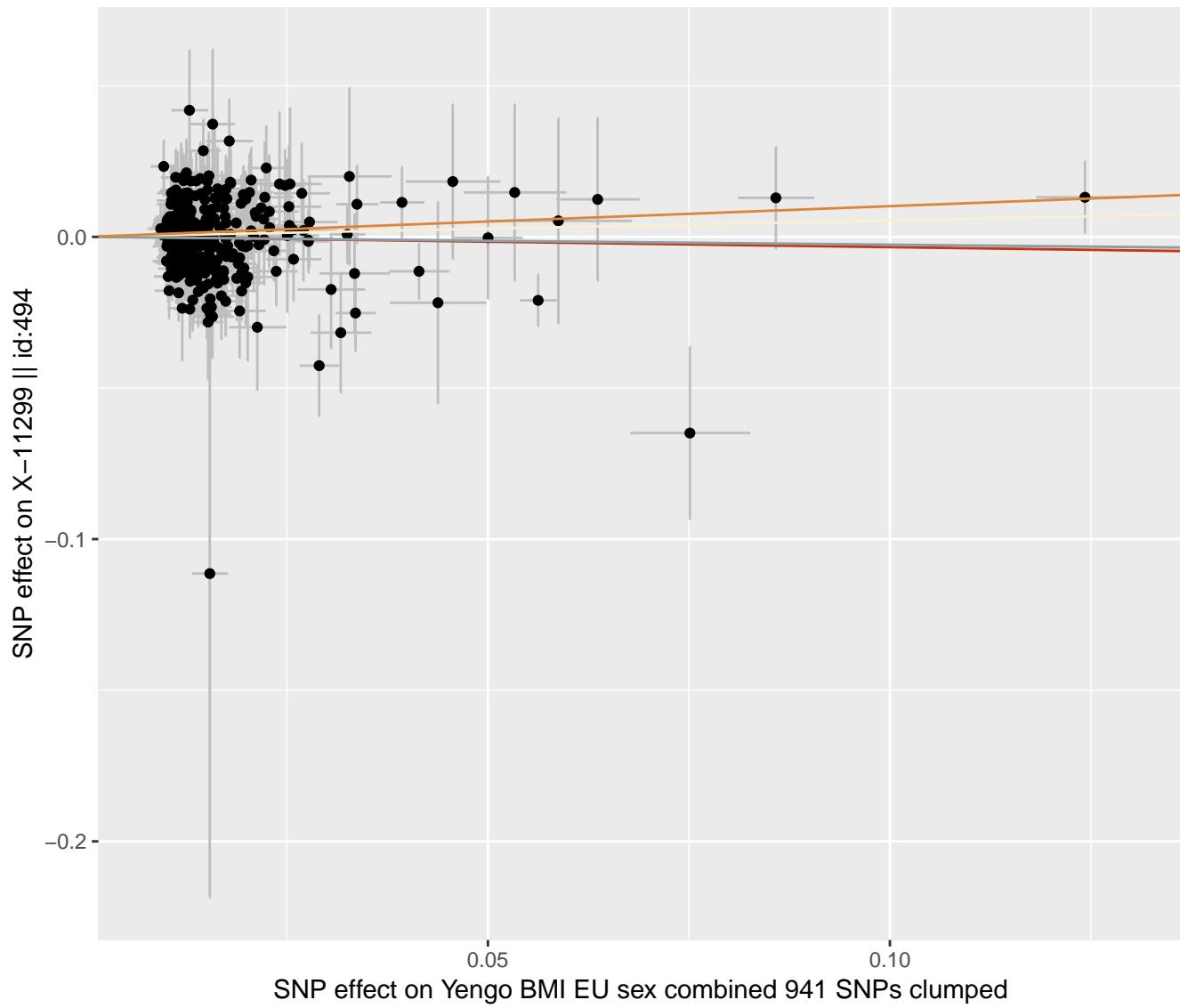
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

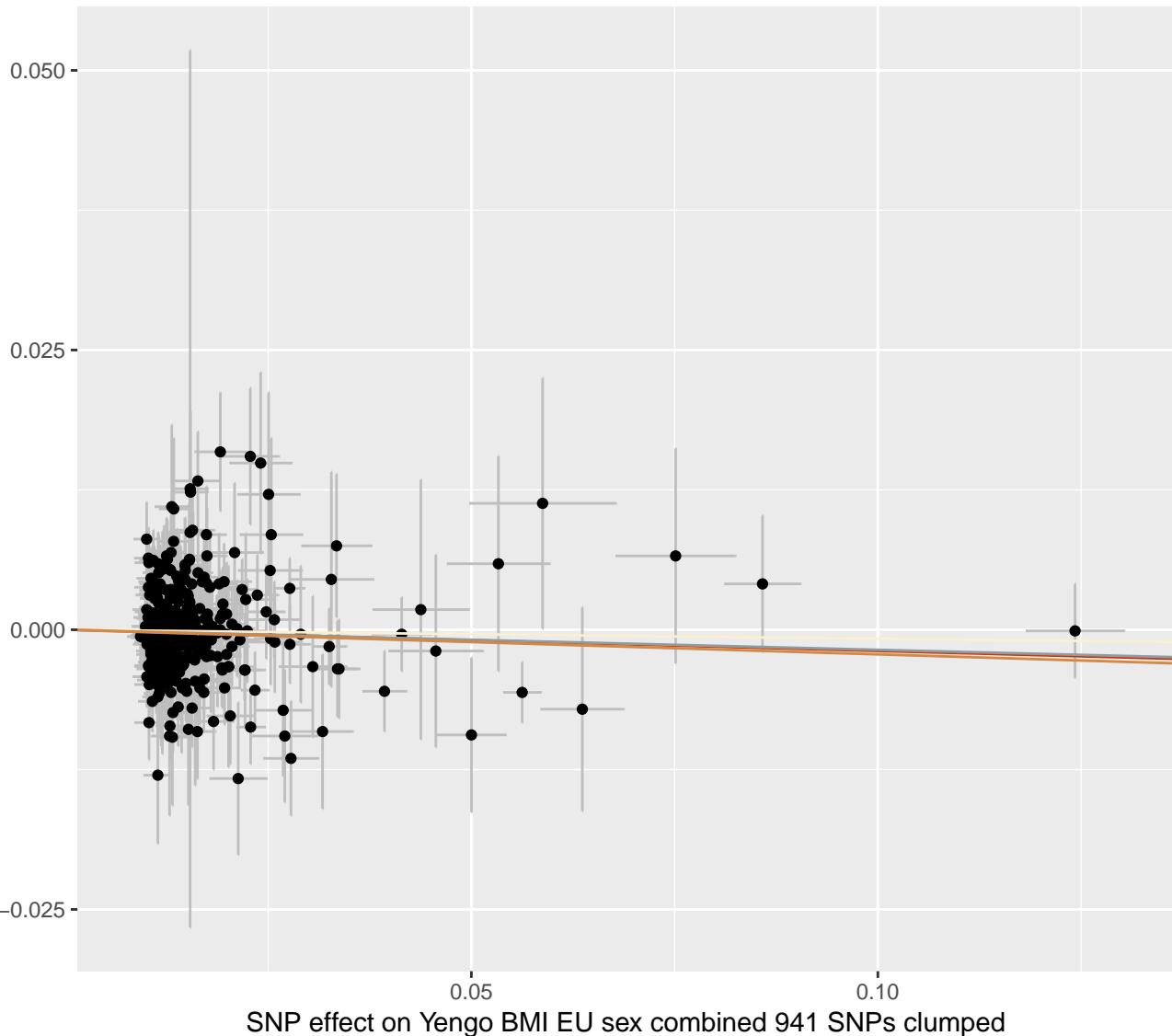


Weighted median



Weighted mode

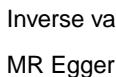
SNP effect on X-11315 || id:495



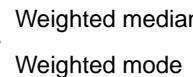
SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

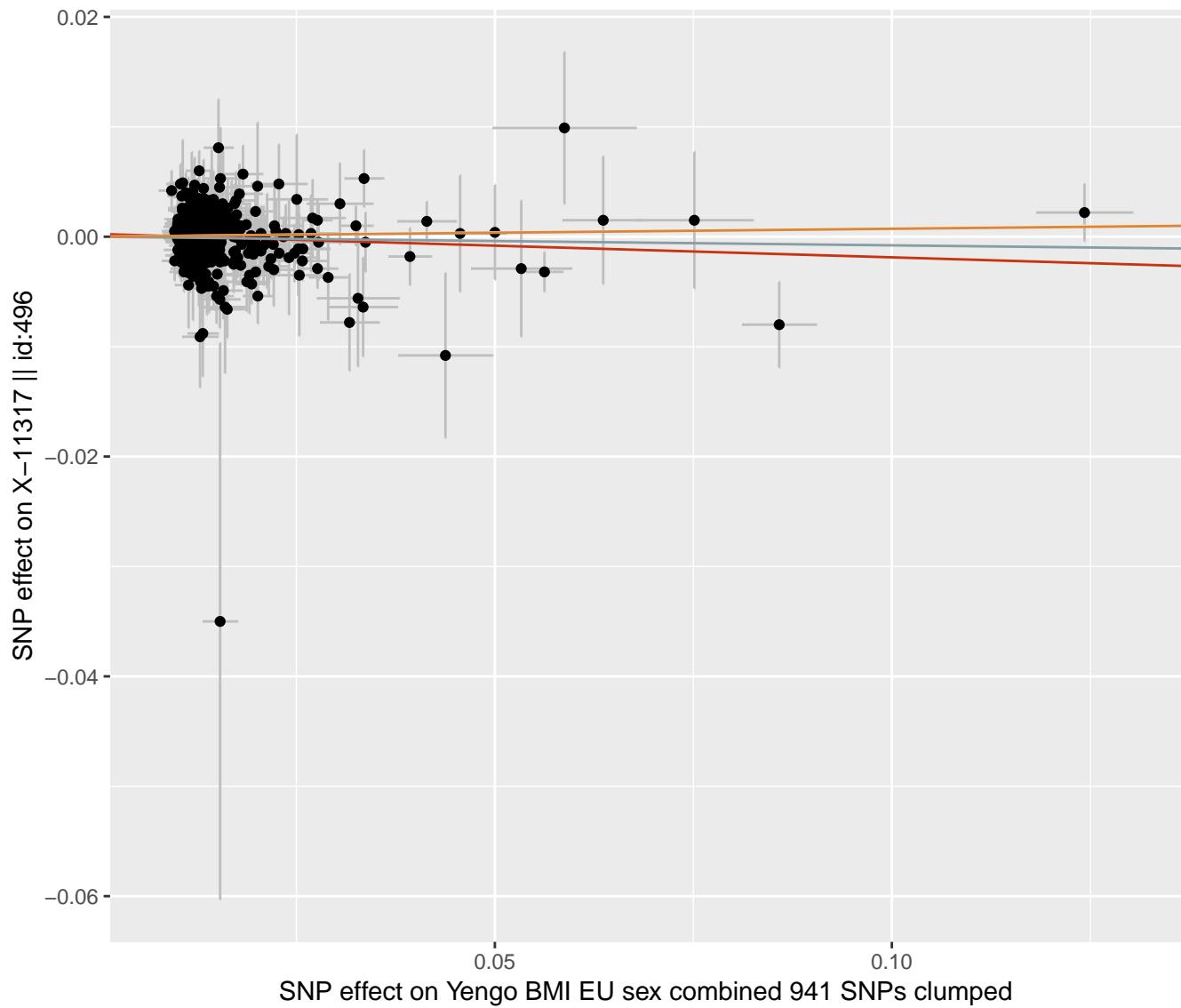
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

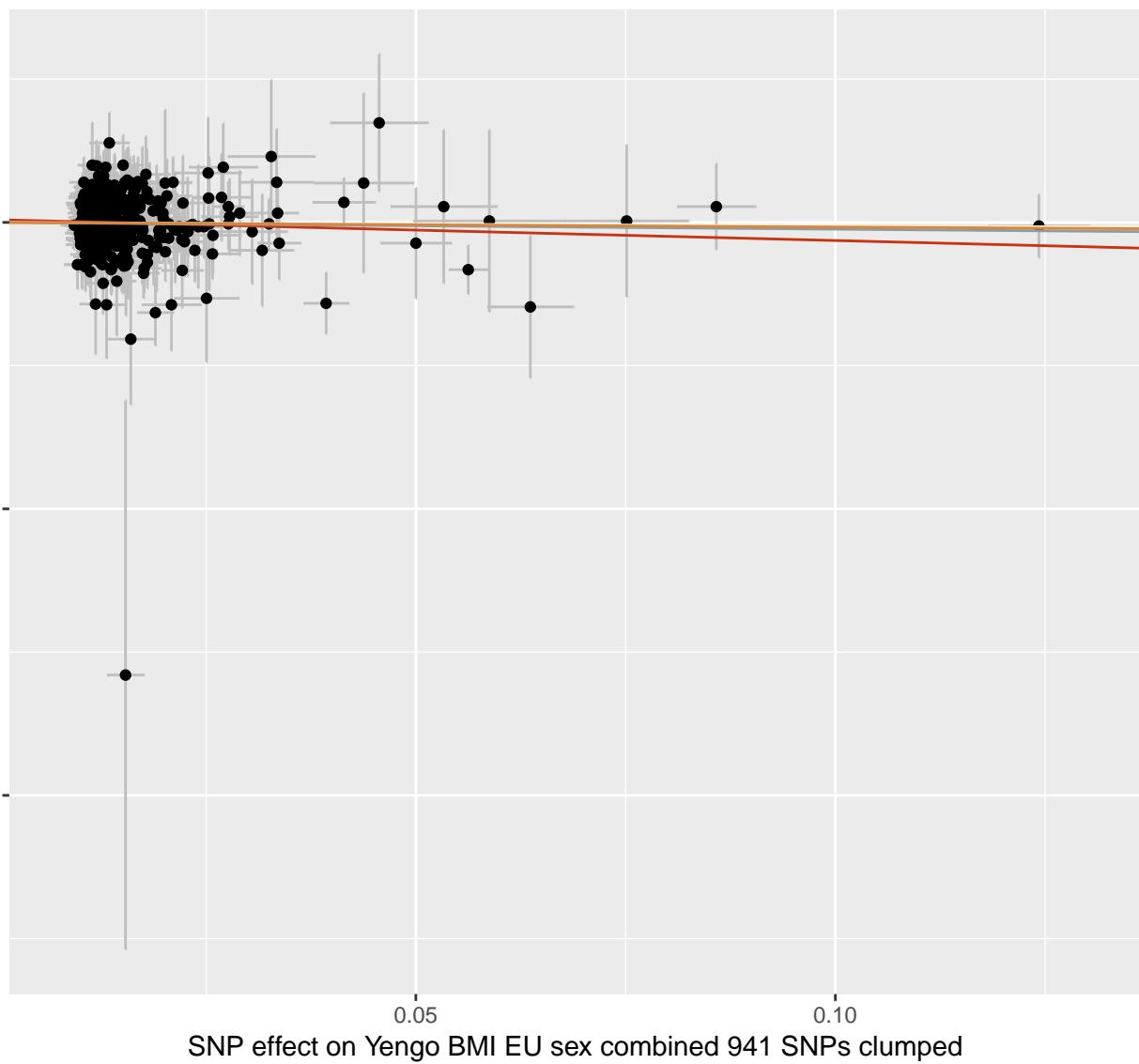


Weighted median



Weighted mode

SNP effect on 1-linoleoylglycerophosphoethanolamine\* || id:497



### MR Test



Inverse variance weighted (multiplicative random effects)



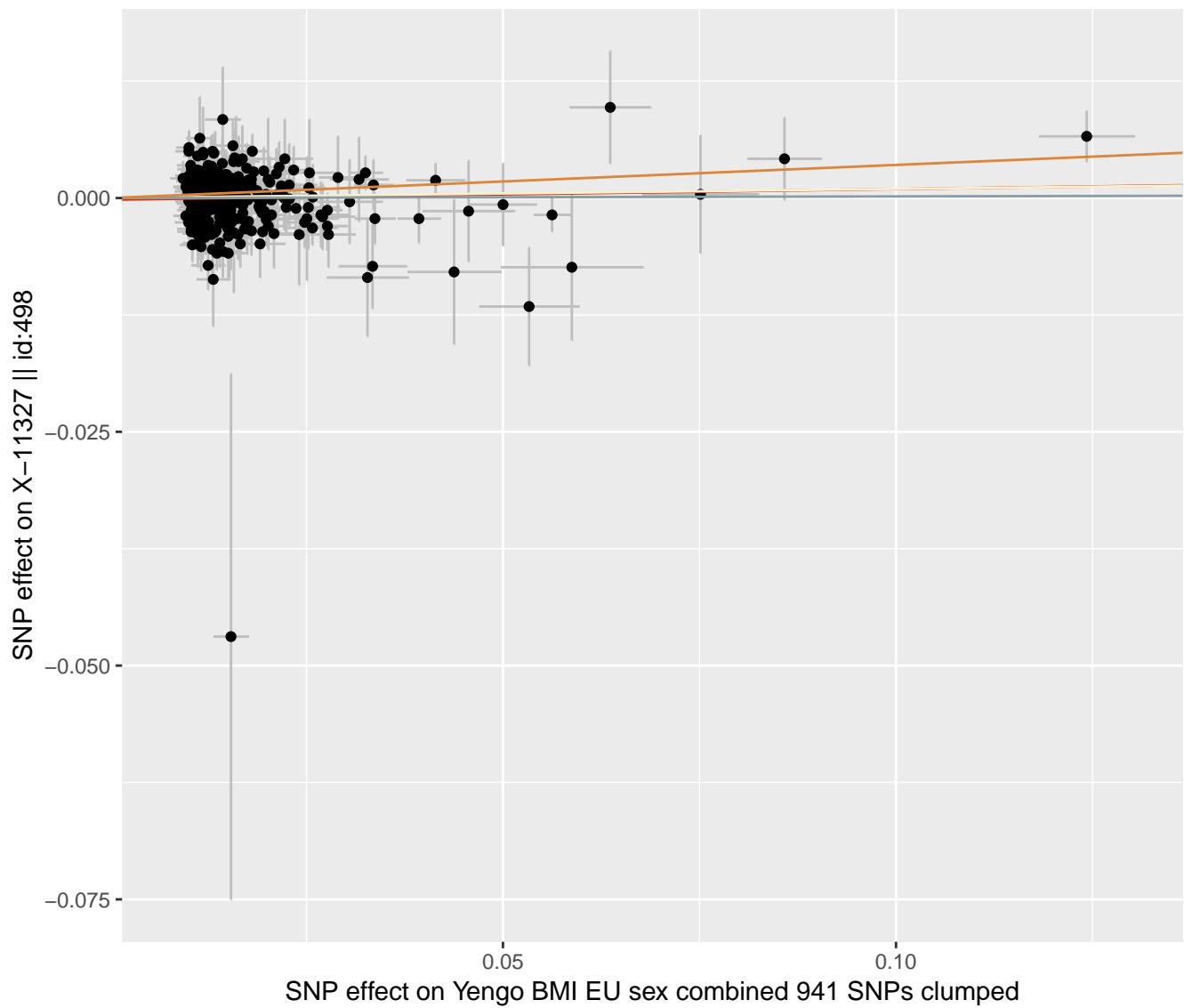
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

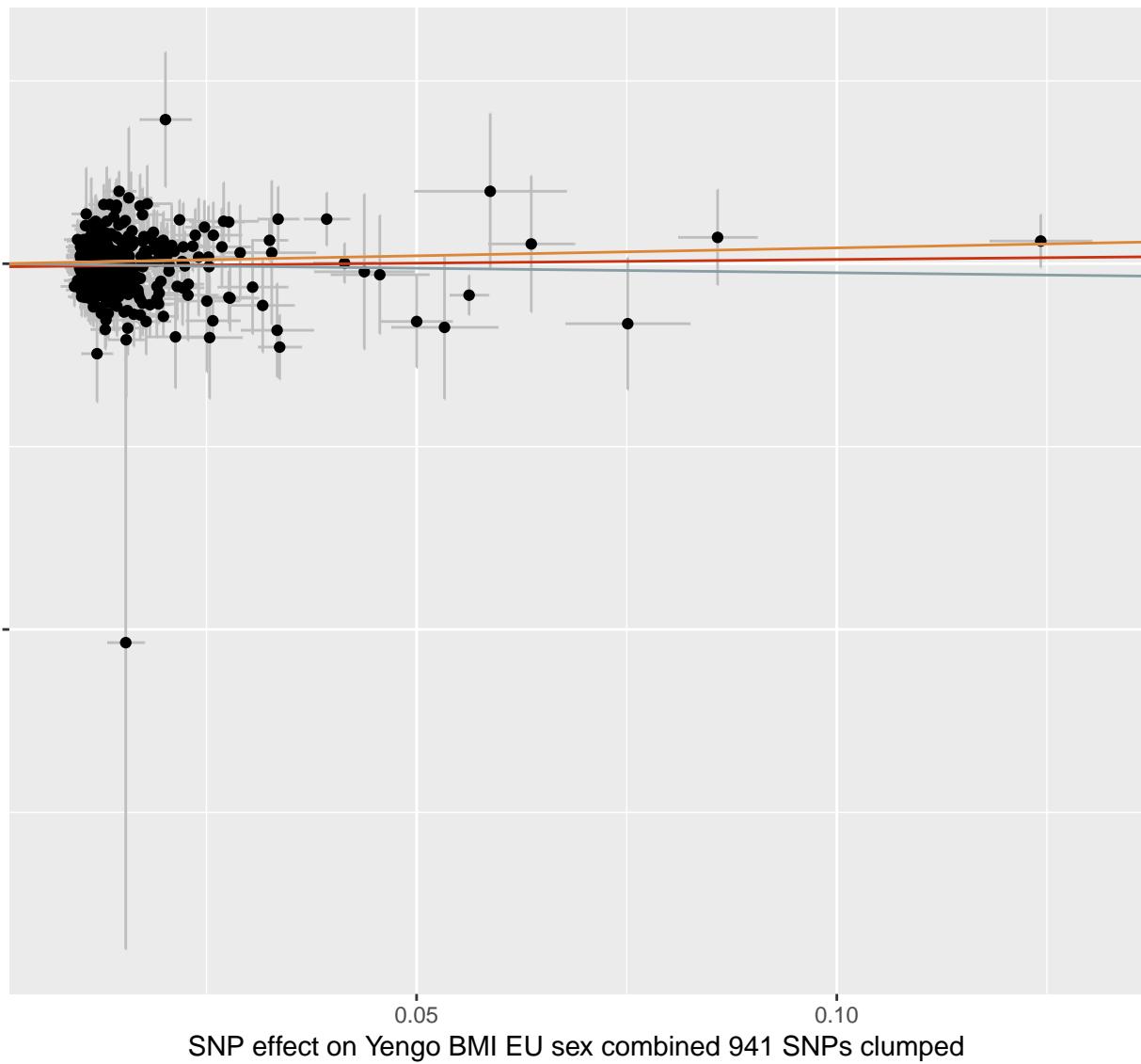


Weighted median



Weighted mode

SNP effect on X-11334 || id:499



## MR Test



Inverse variance weighted (multiplicative random effects)



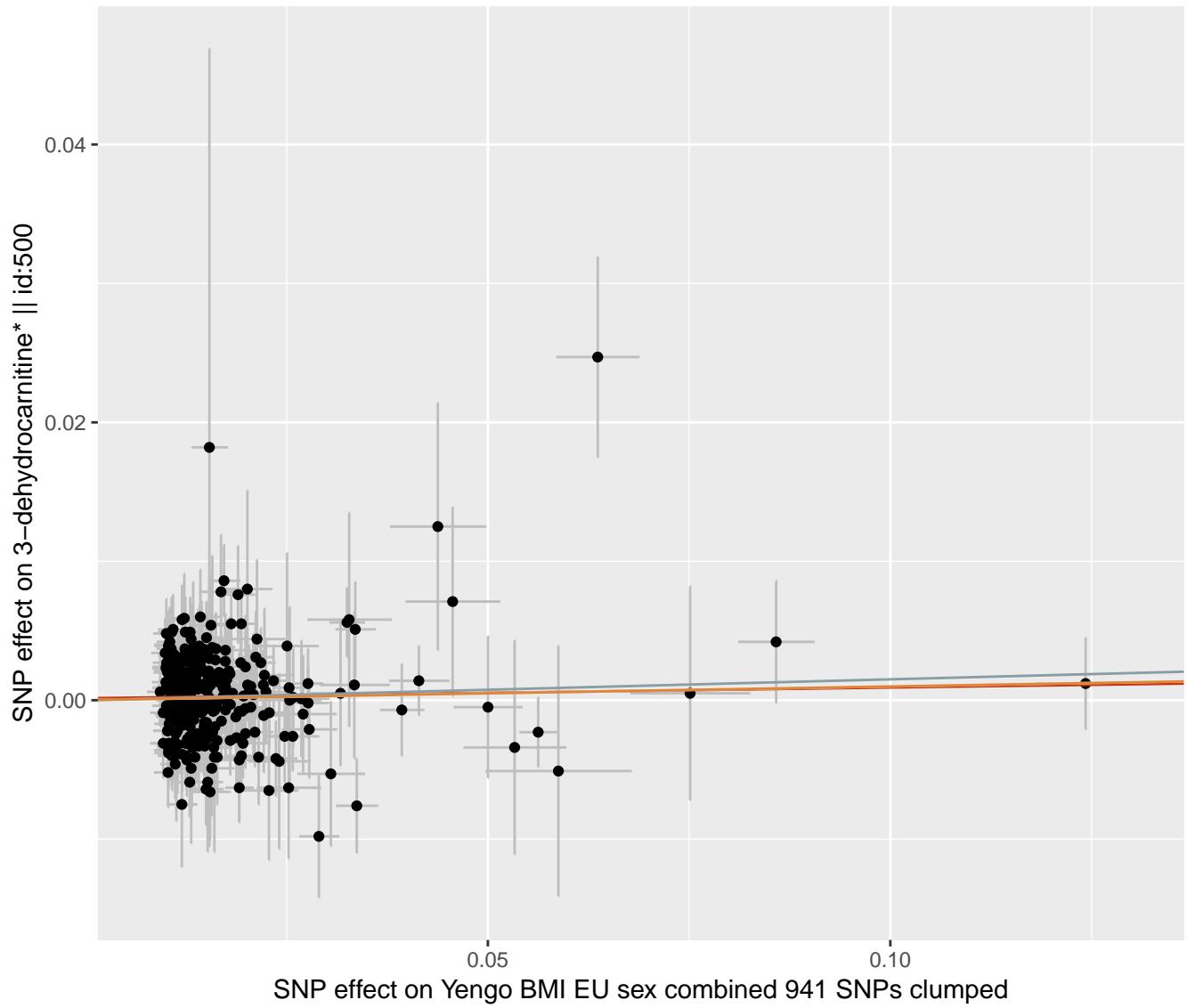
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



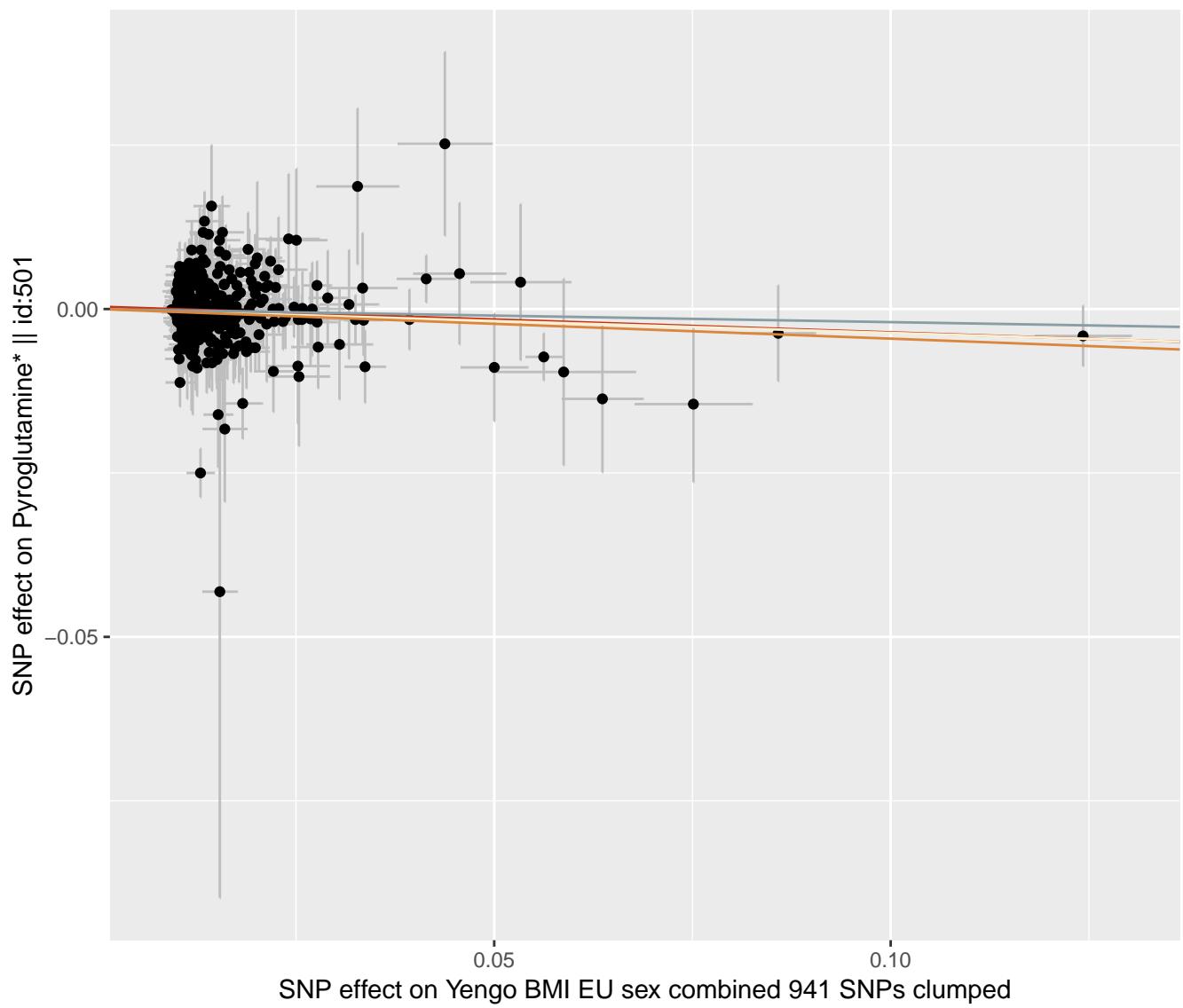
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



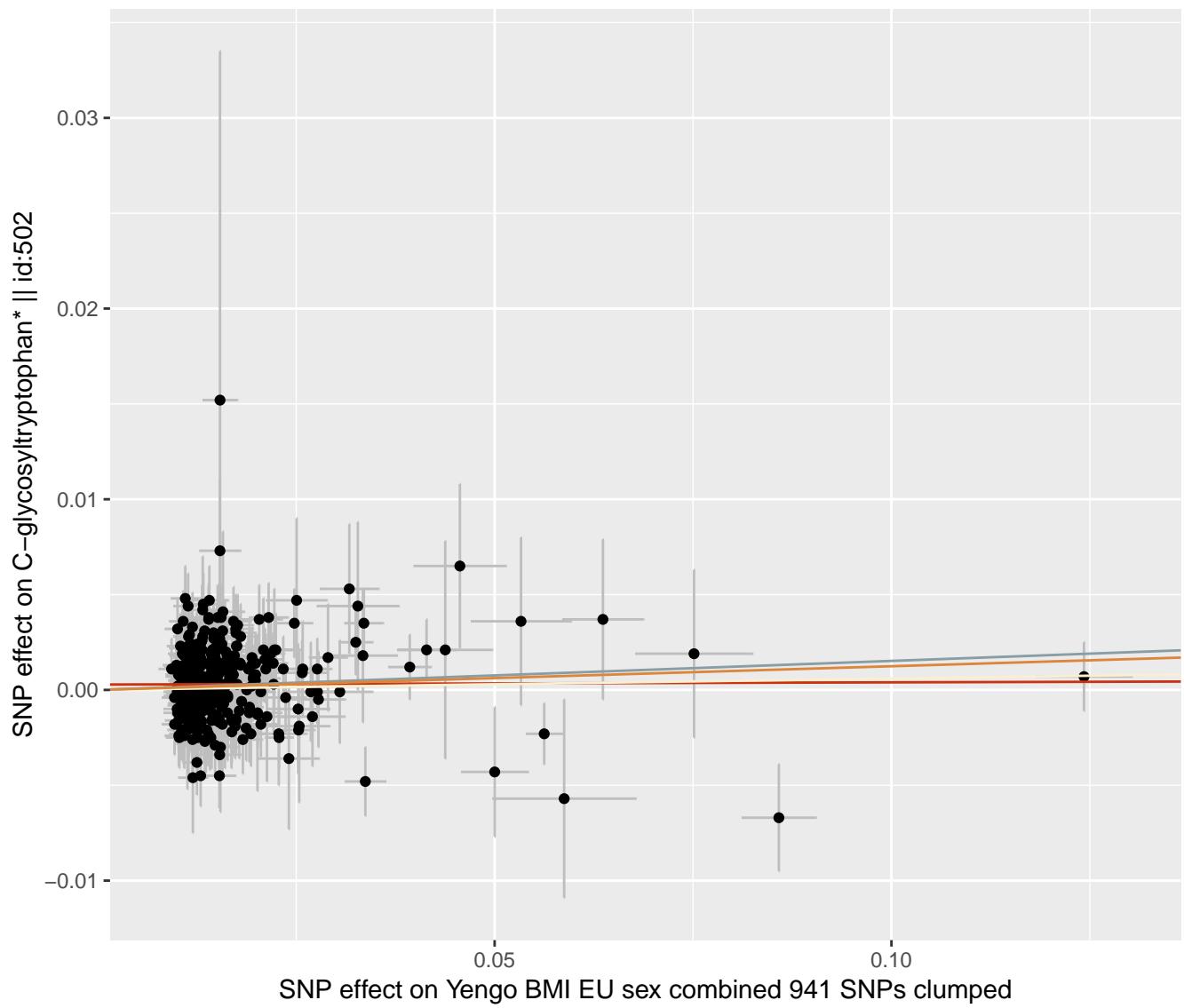
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



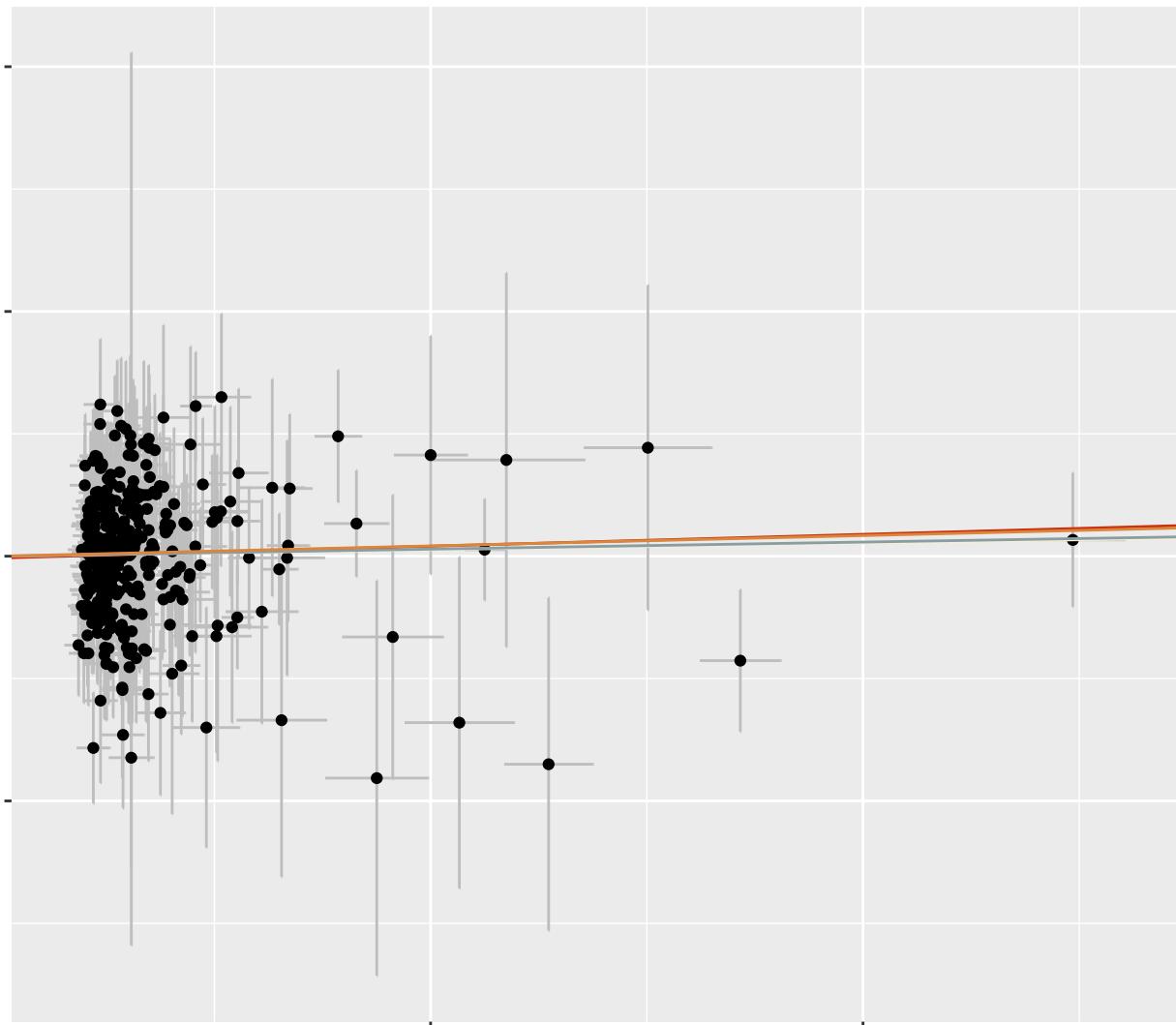
Weighted median



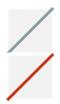
Weighted mode

SNP effect on X-11374 || id:503

SNP effect on Yengo BMI EU sex combined 941 SNPs clumped



## MR Test



Inverse variance weighted (multiplicative random effects)



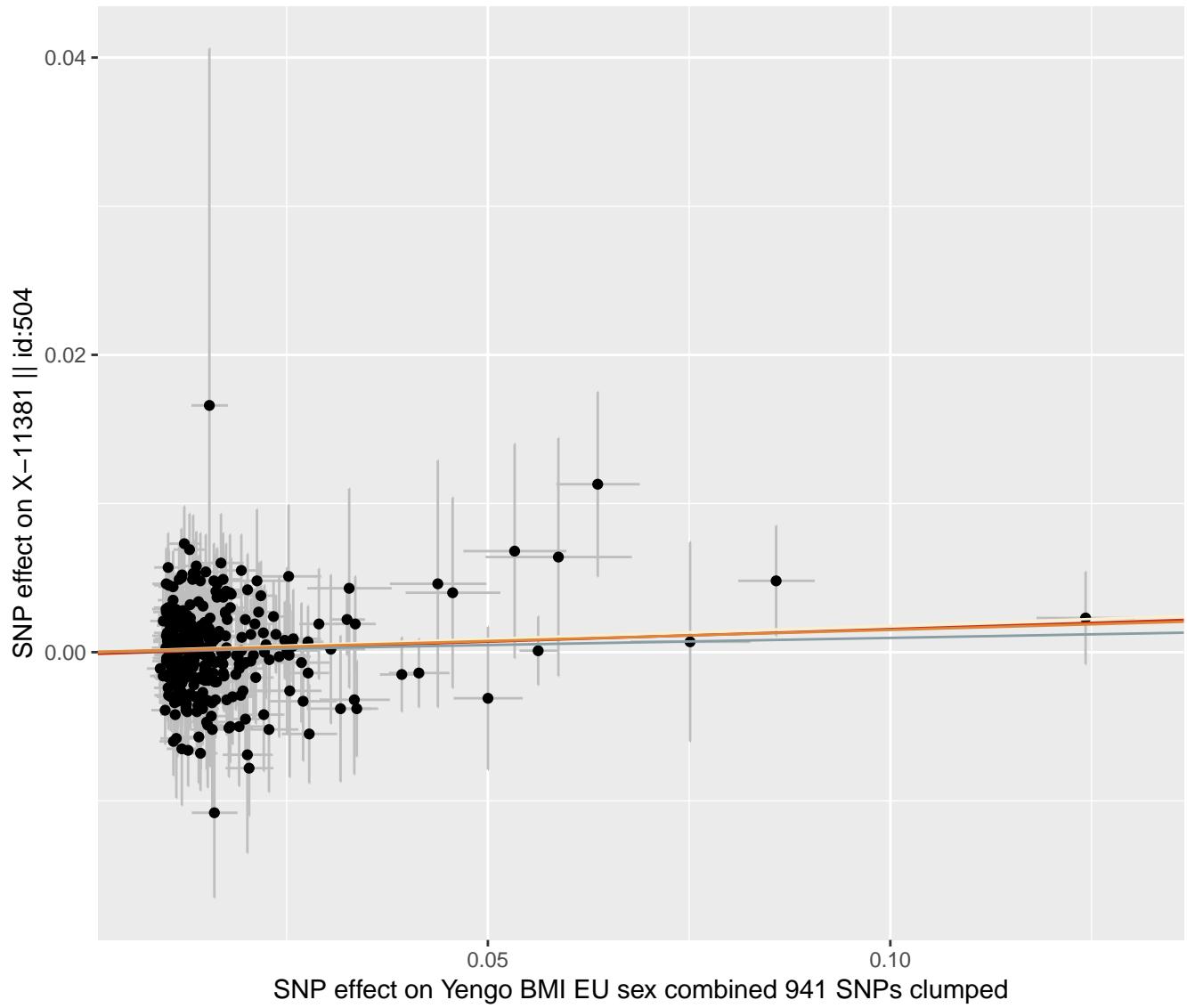
MR Egger



Weighted median

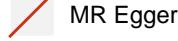


Weighted mode



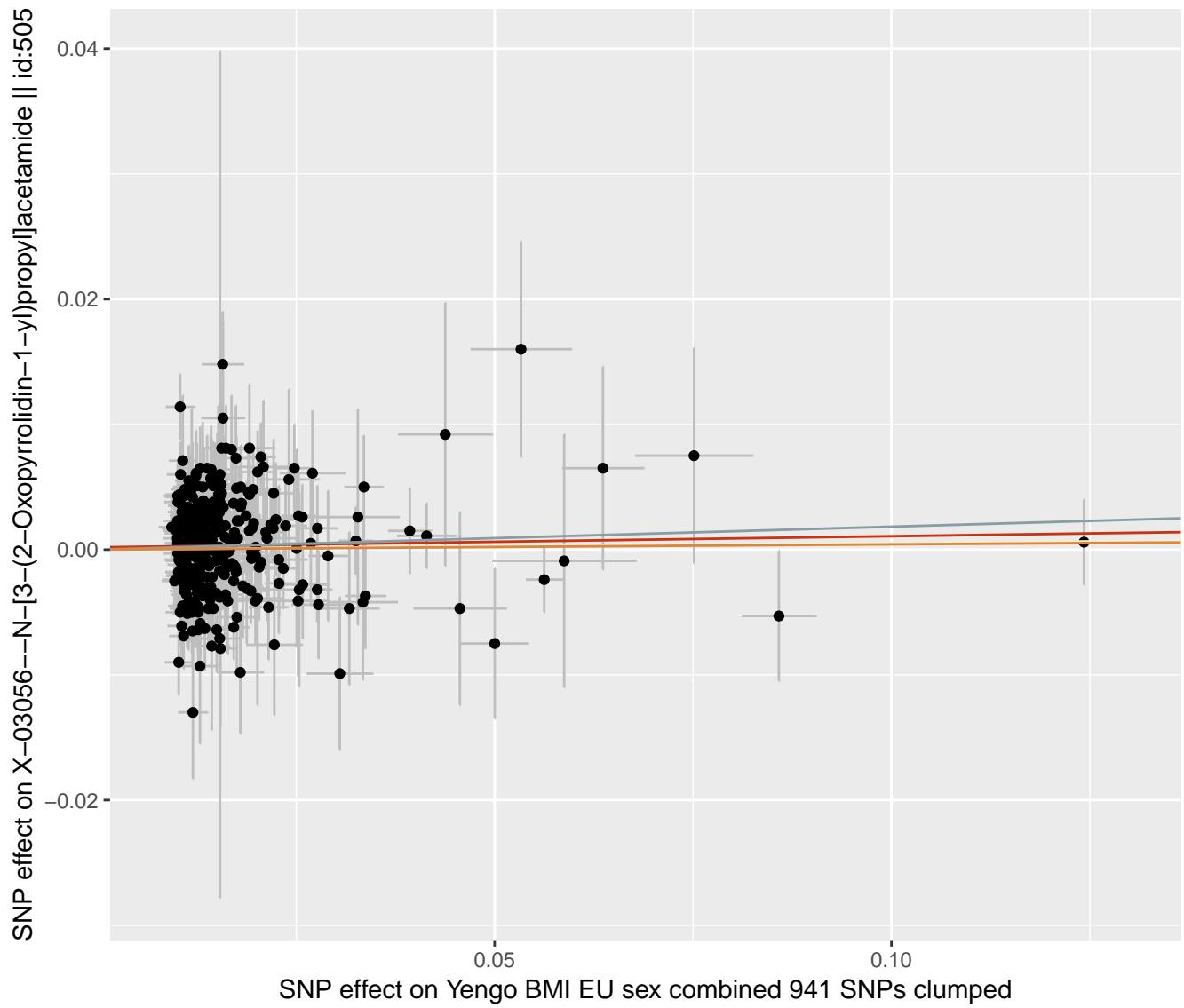
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

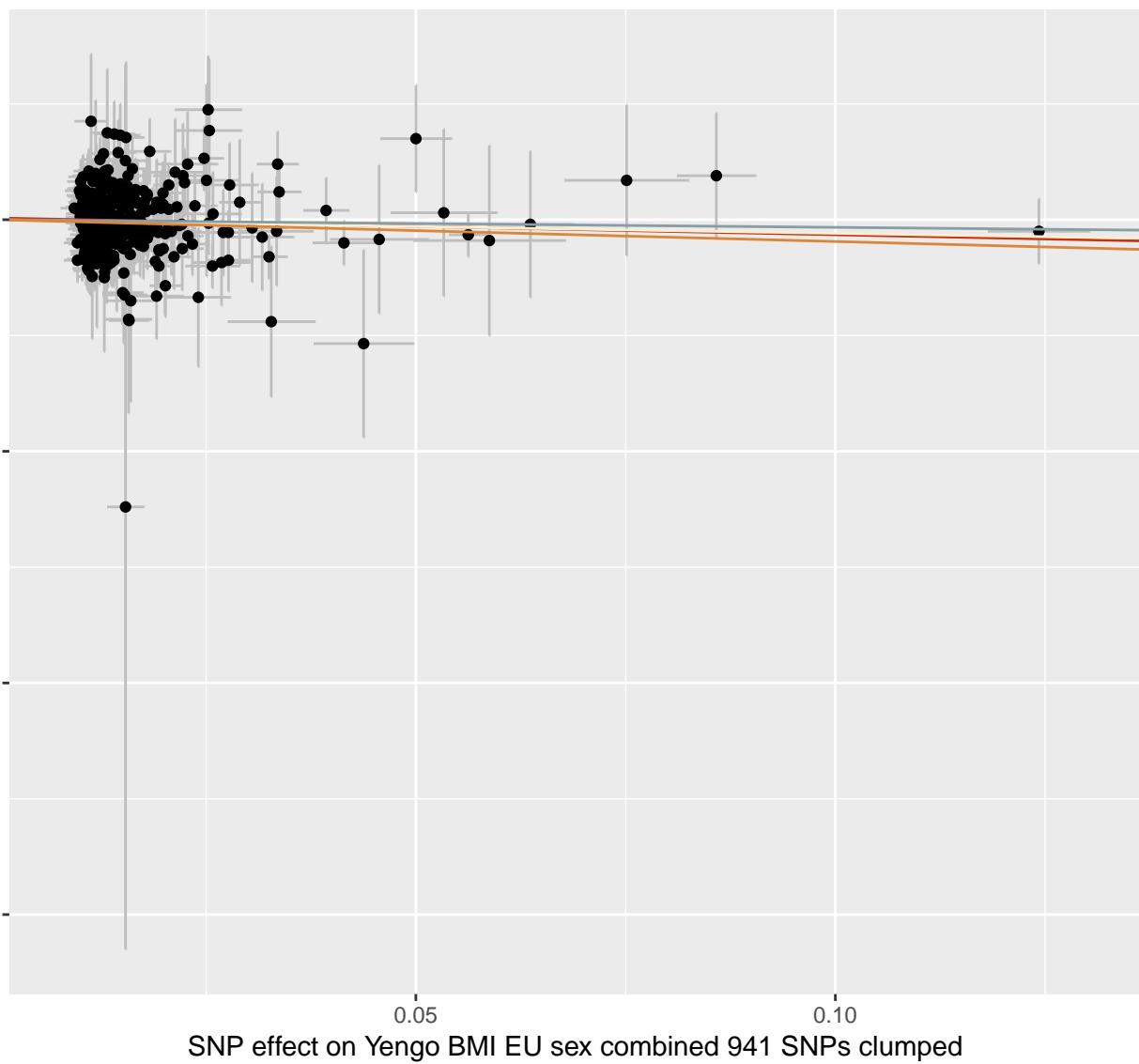


Weighted median



Weighted mode

SNP effect on X-11412 || id:506



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



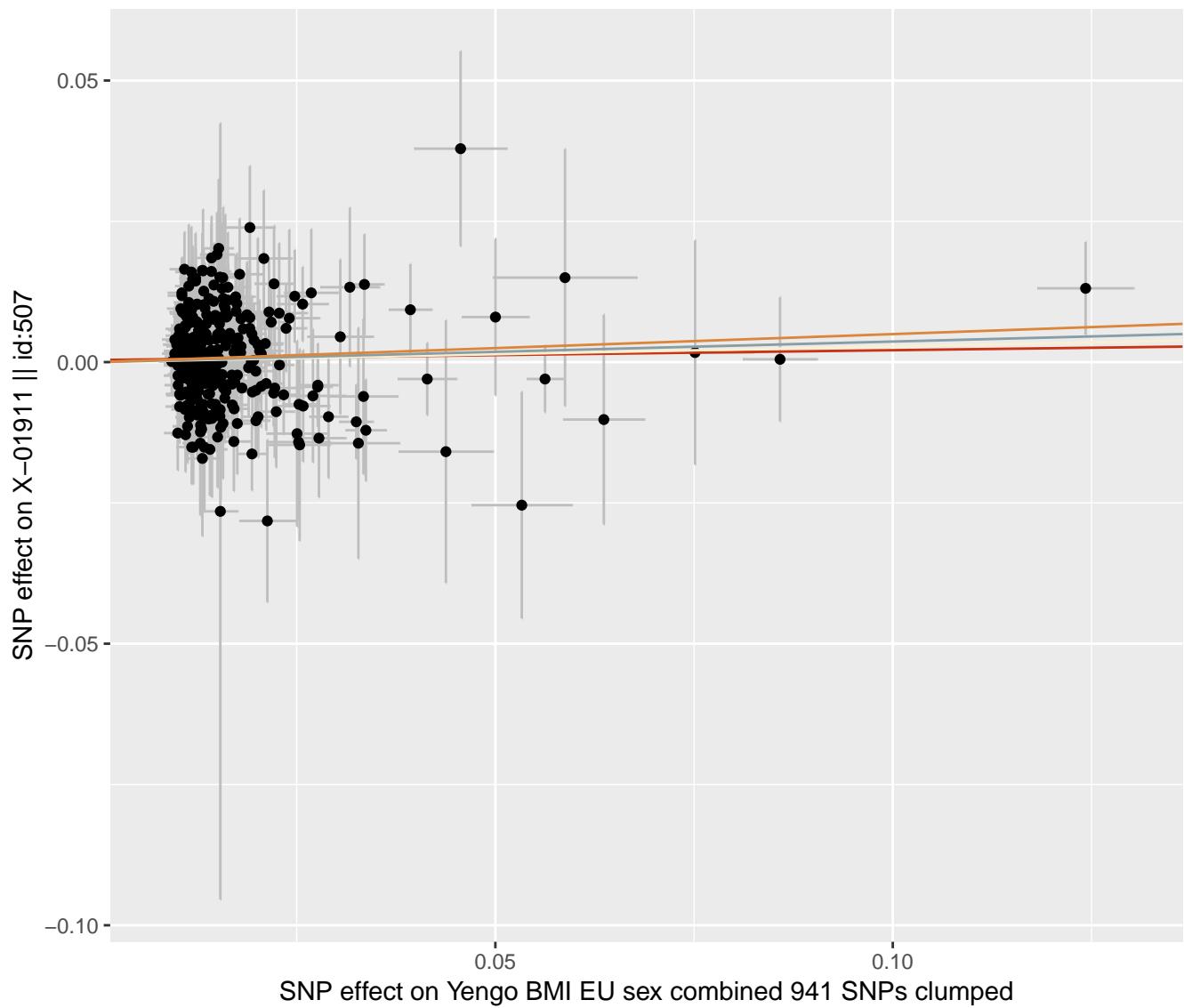
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



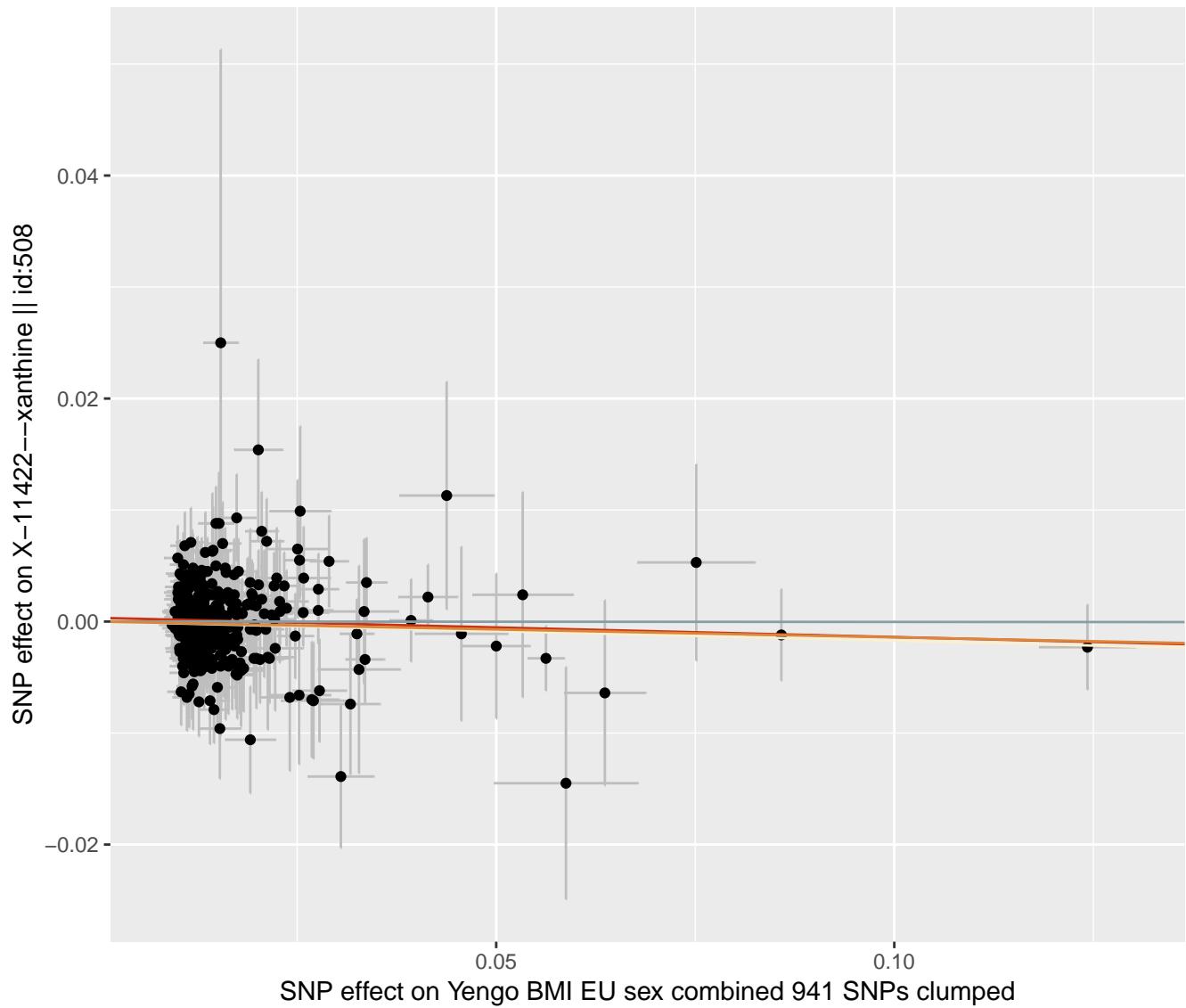
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

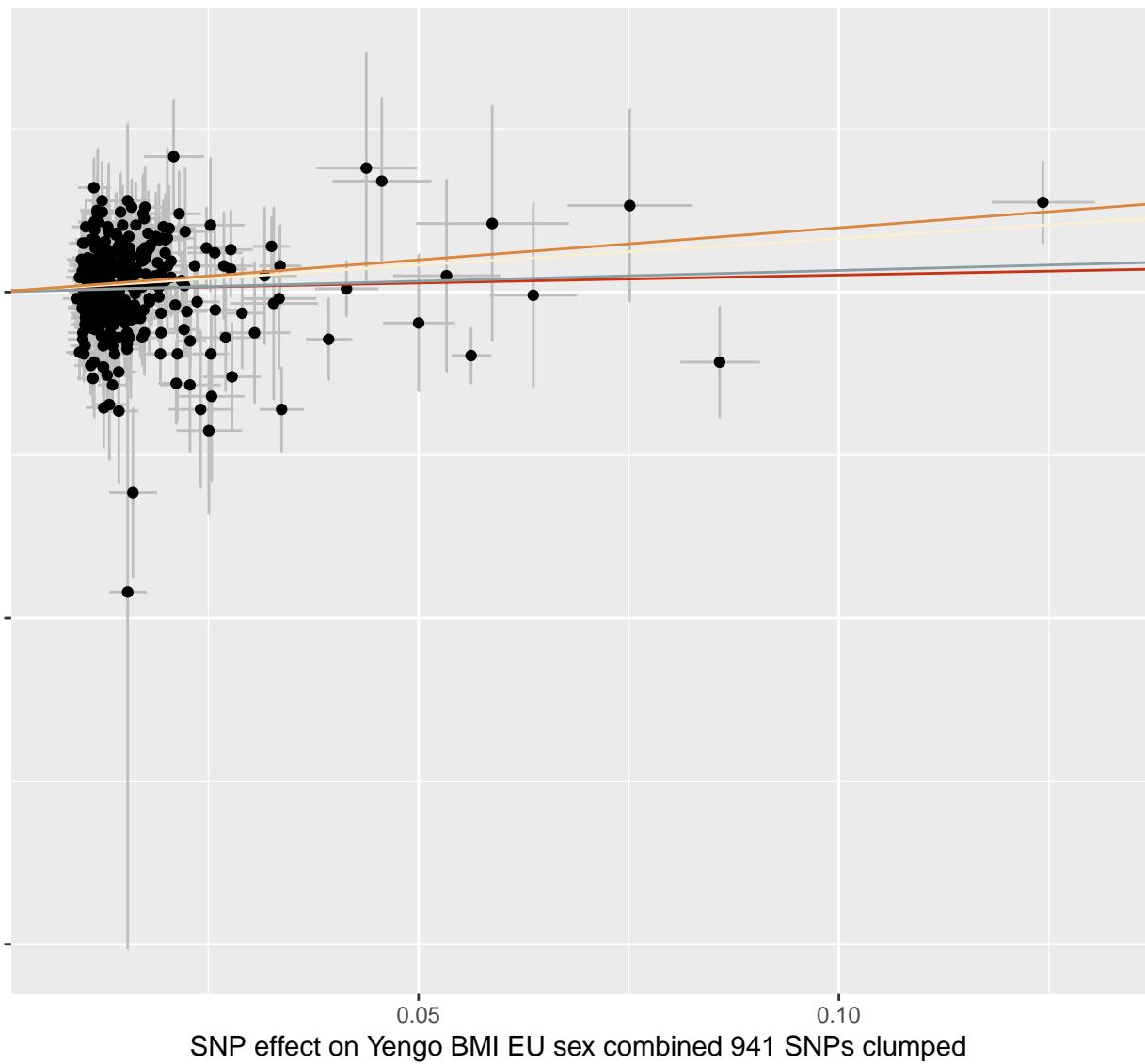


Weighted median



Weighted mode

SNP effect on X-11423--O-sulfo-L-tyrosine || id:509



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

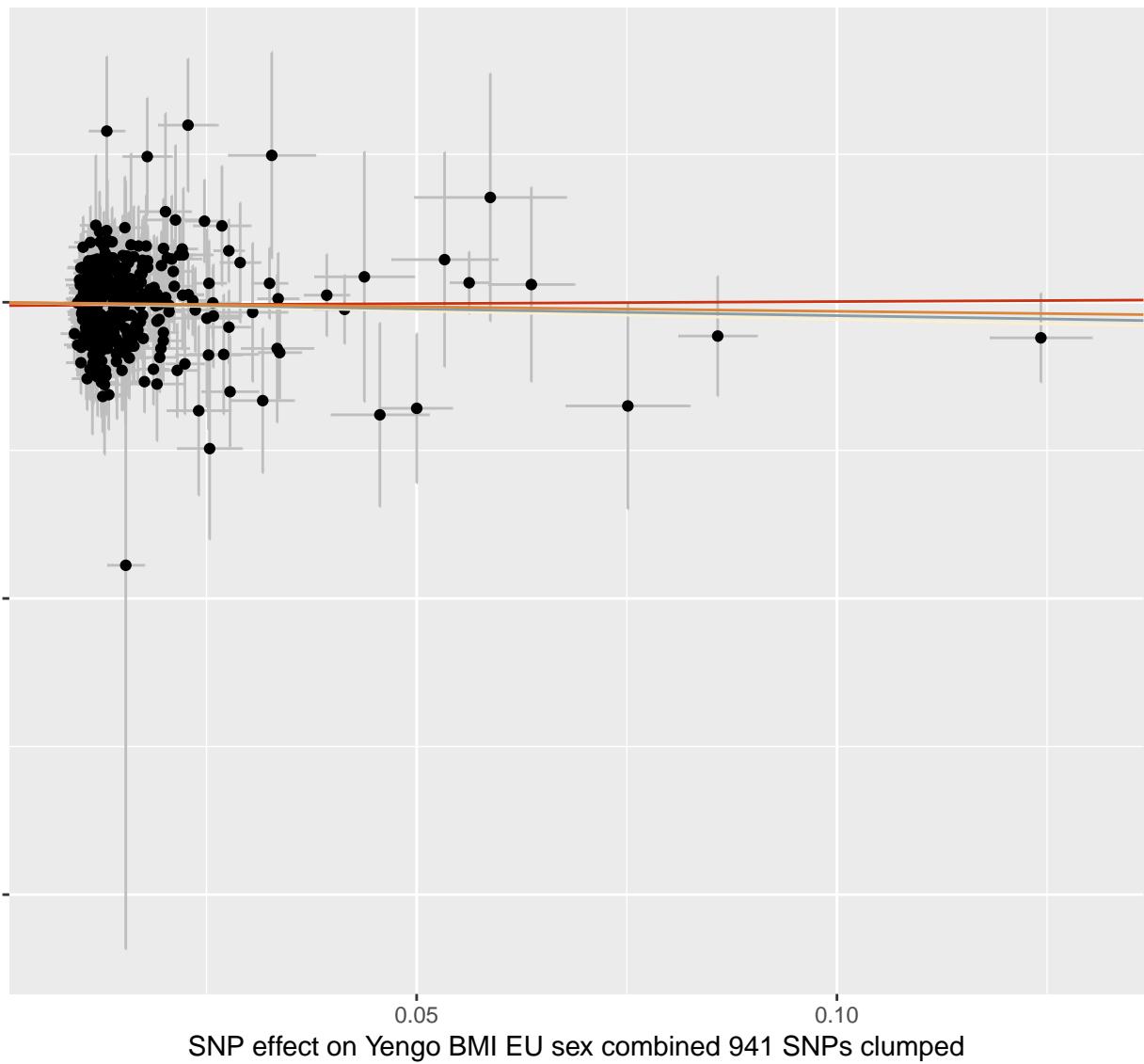


Weighted median



Weighted mode

SNP effect on X-09789 || id:510



### MR Test



Inverse variance weighted (multiplicative random effects)



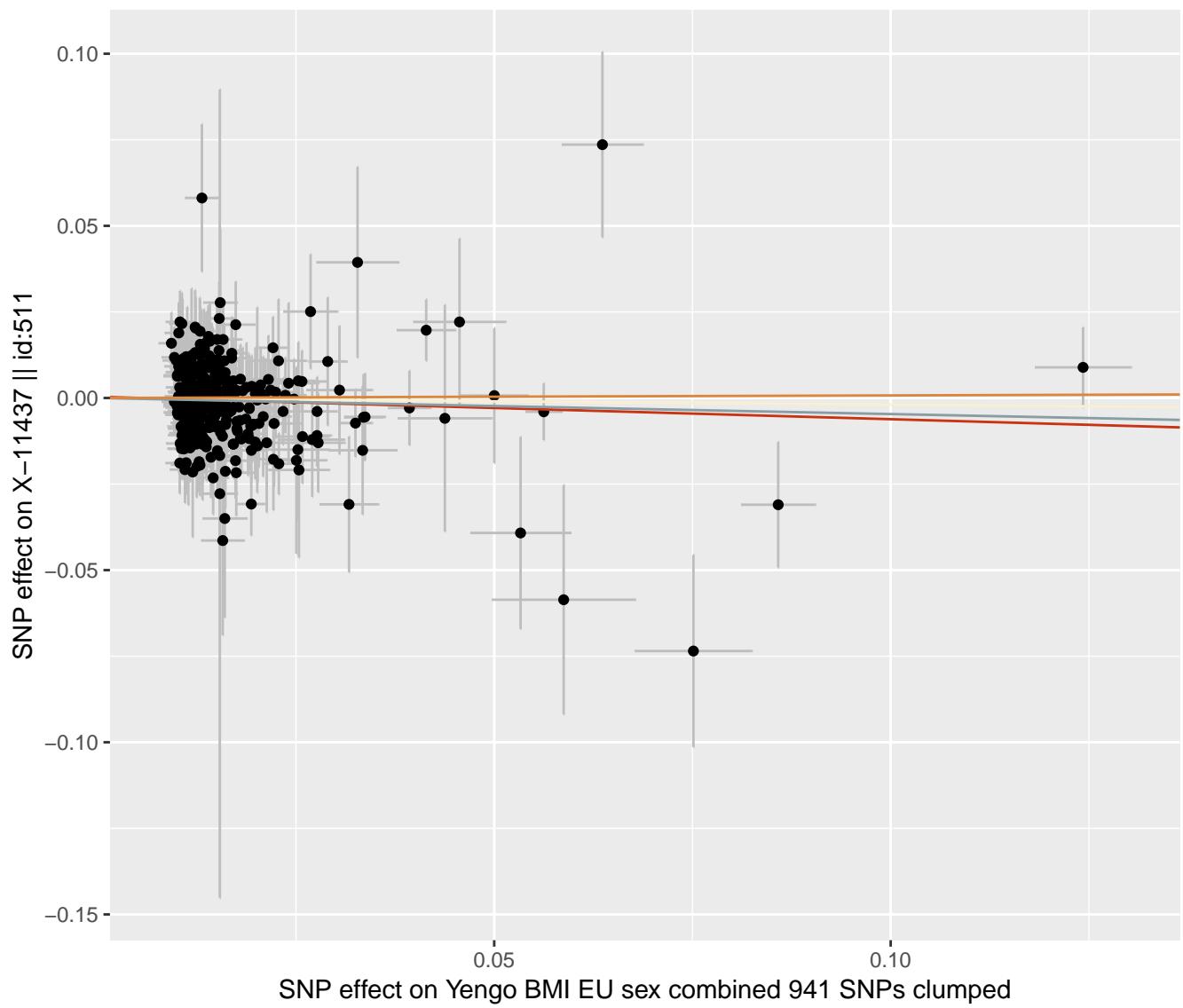
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



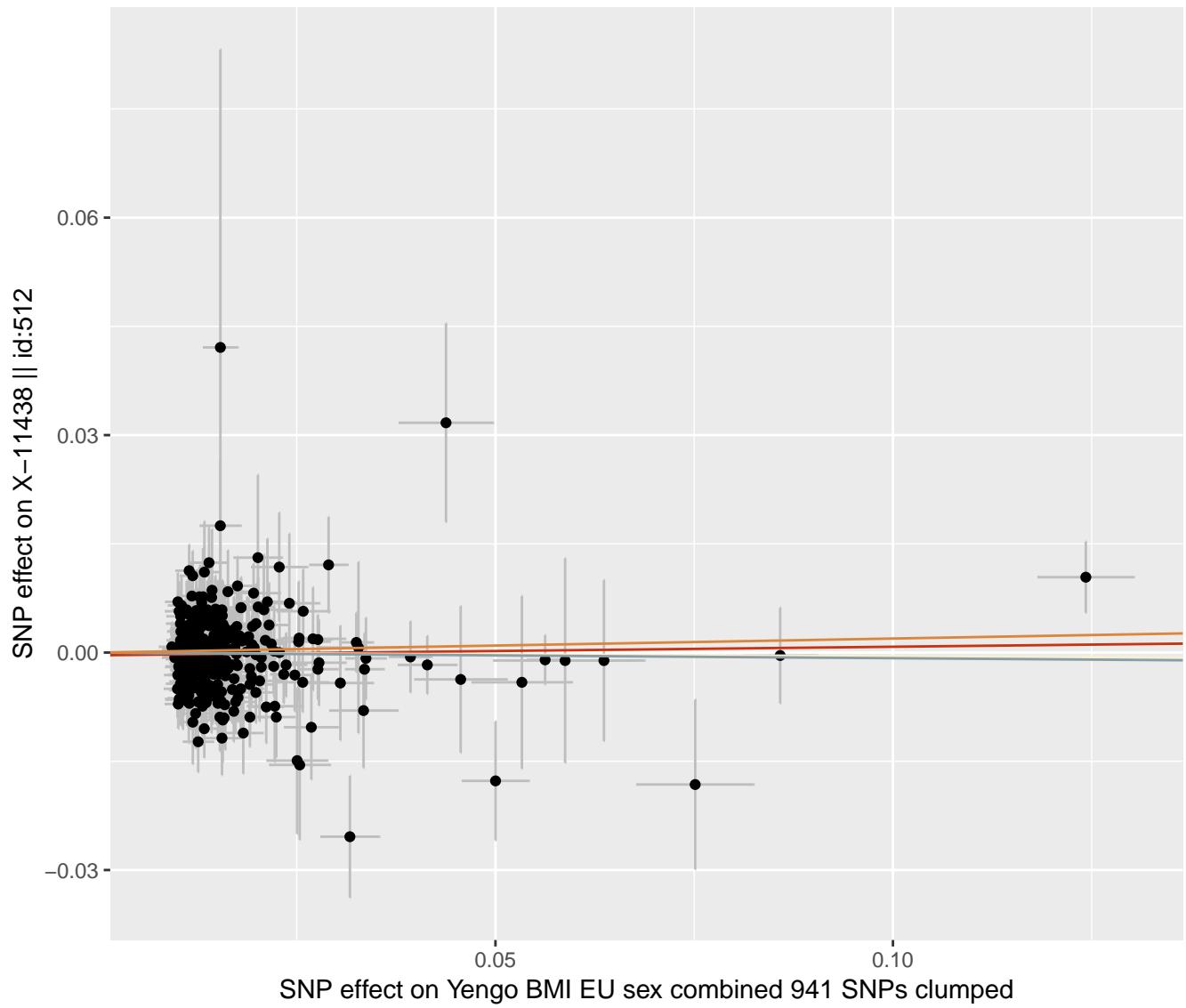
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



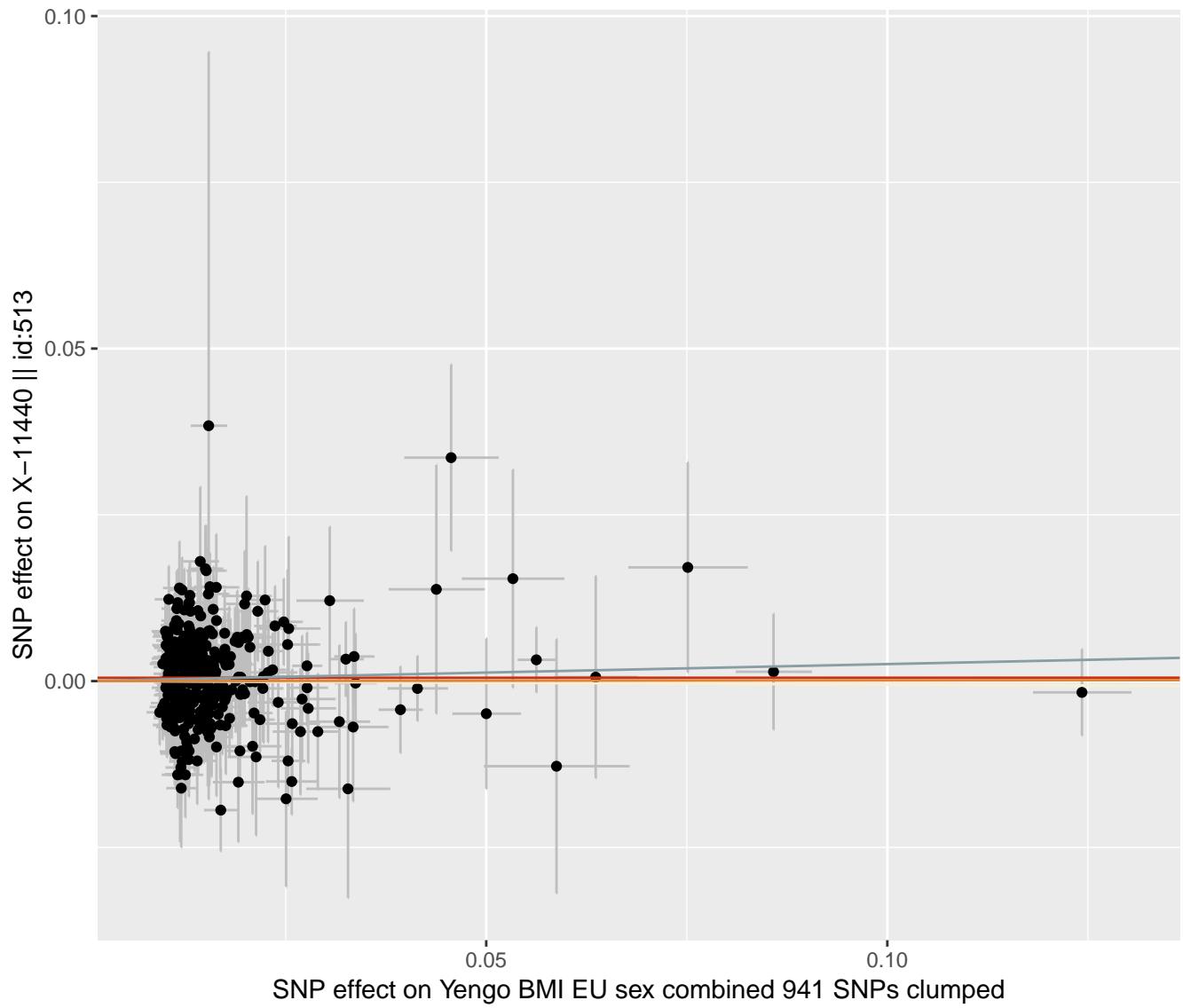
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



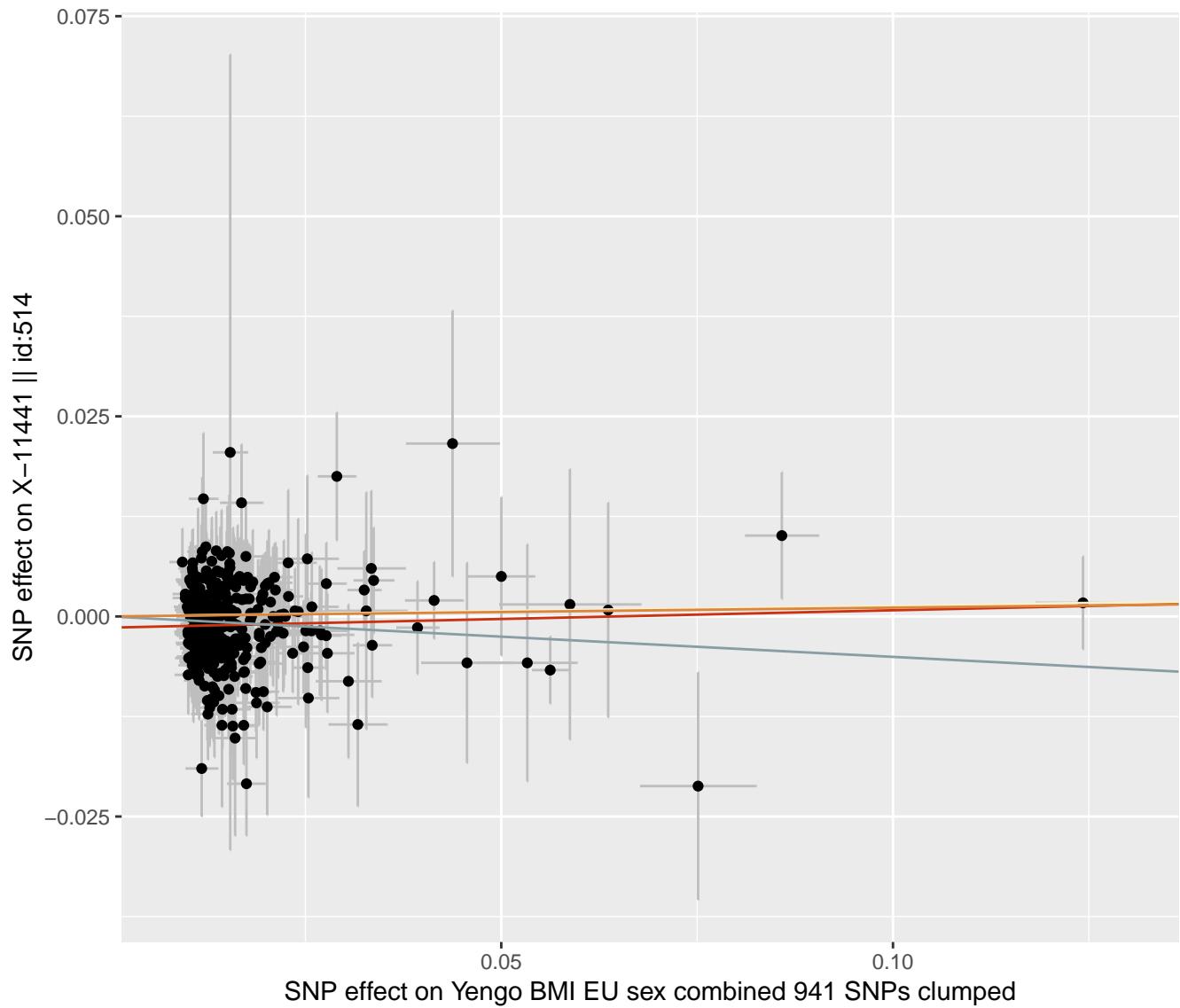
MR Egger



Weighted median

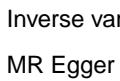


Weighted mode



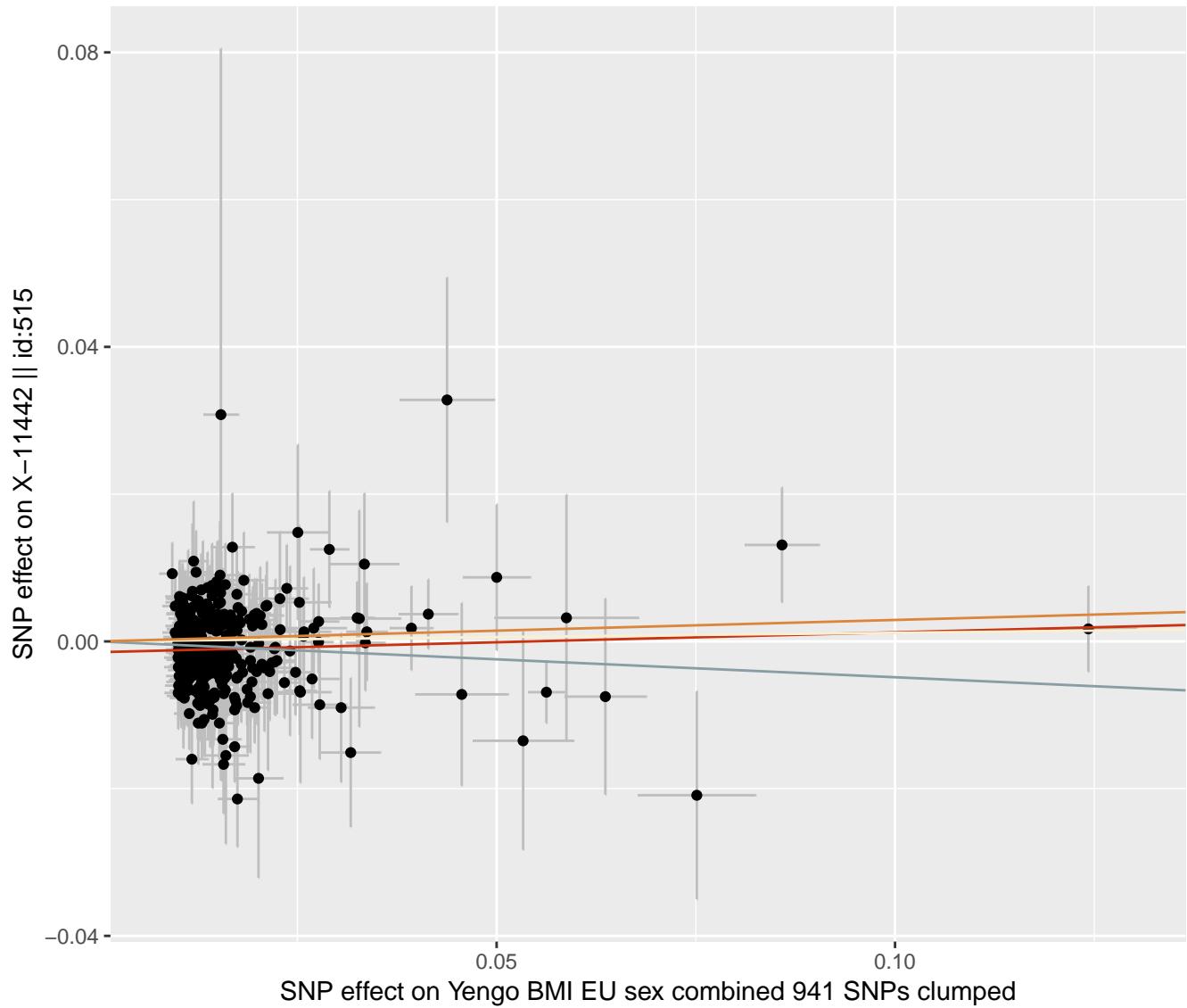
# MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



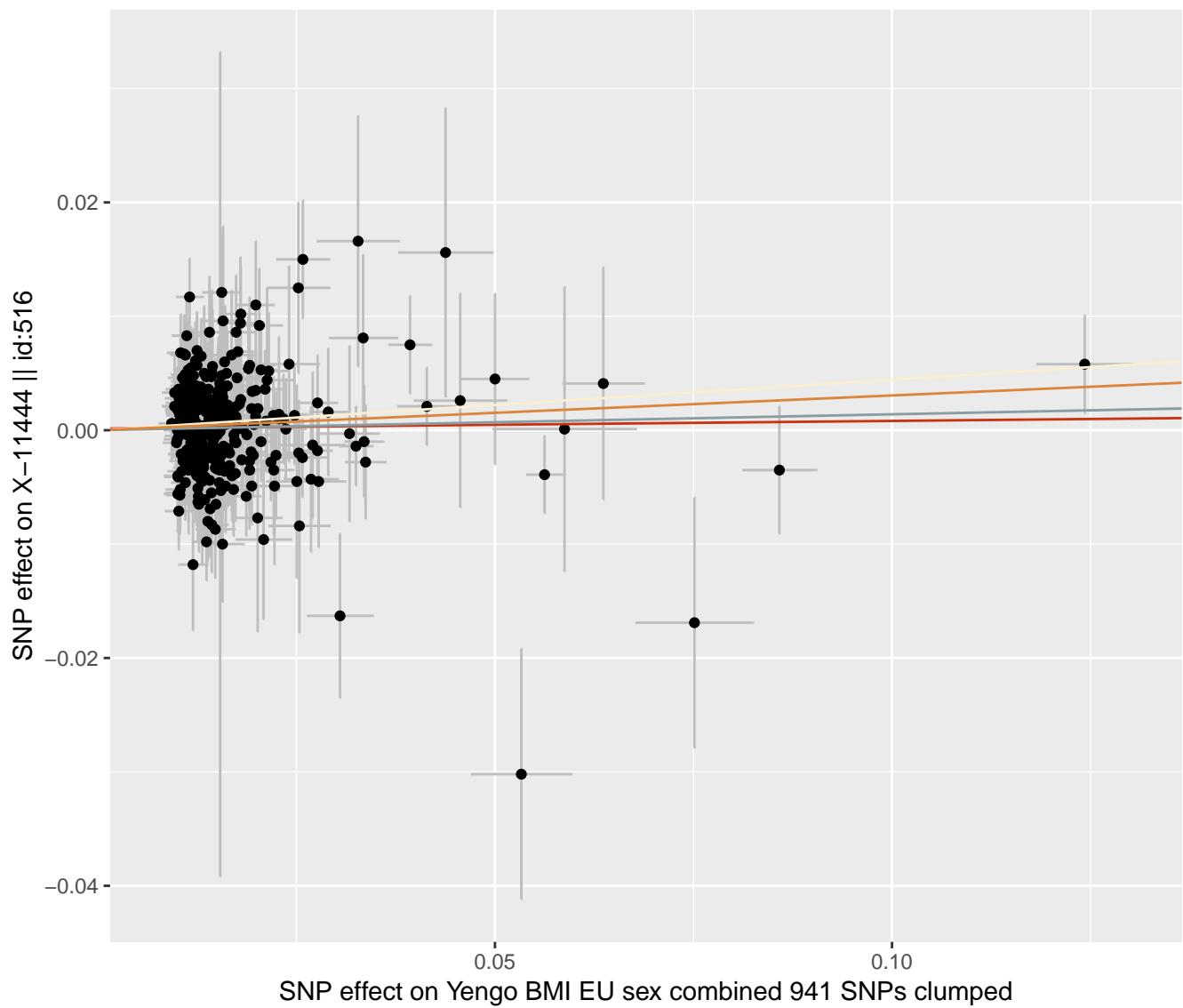
MR Egger



Weighted median



Weighted mode



### MR Test

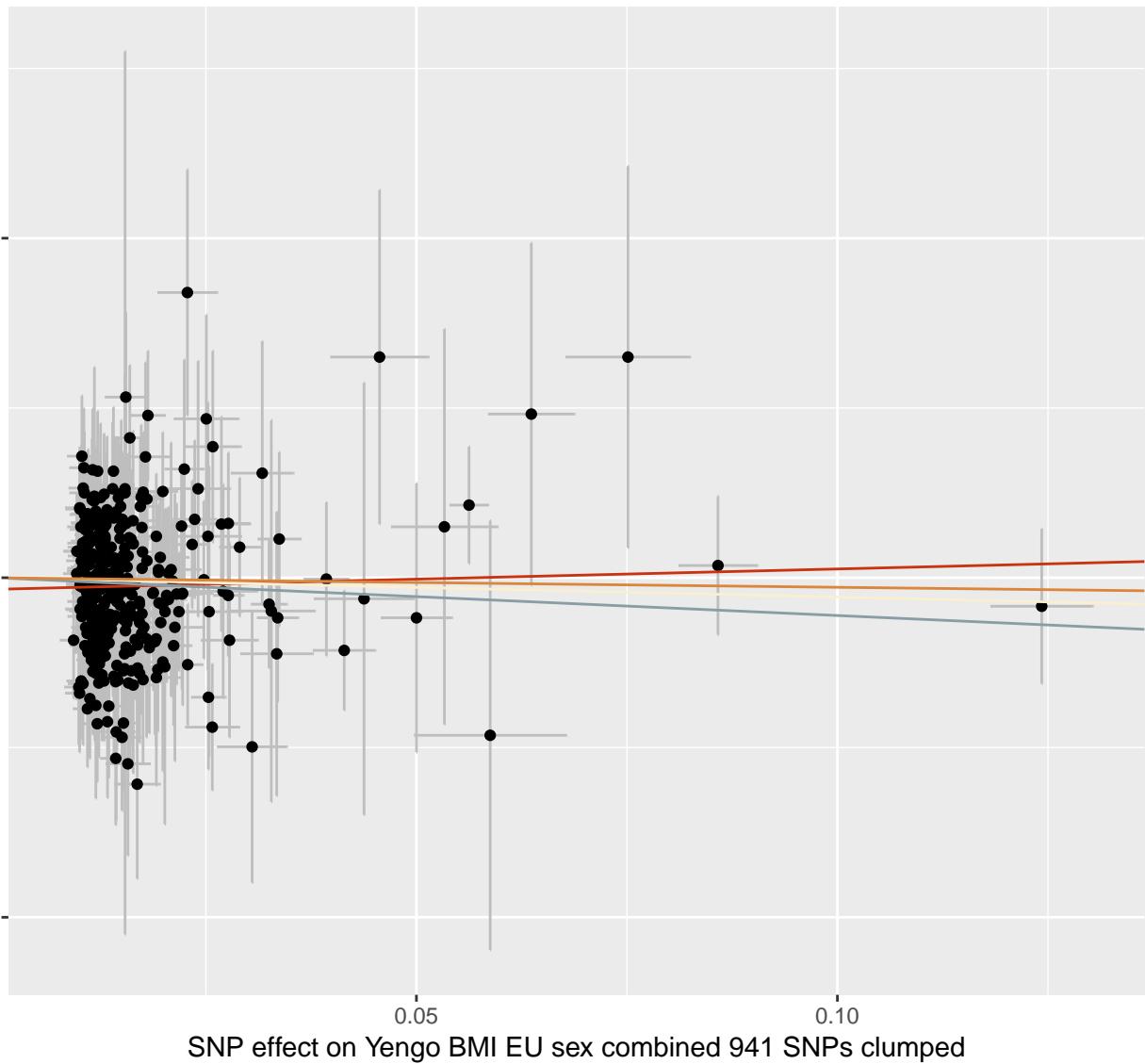
 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode

SNP effect on X-11445--5-alpha-pregnan-3beta,20alpha-disulfate || id:517



## MR Test



Inverse variance weighted (multiplicative random effects)



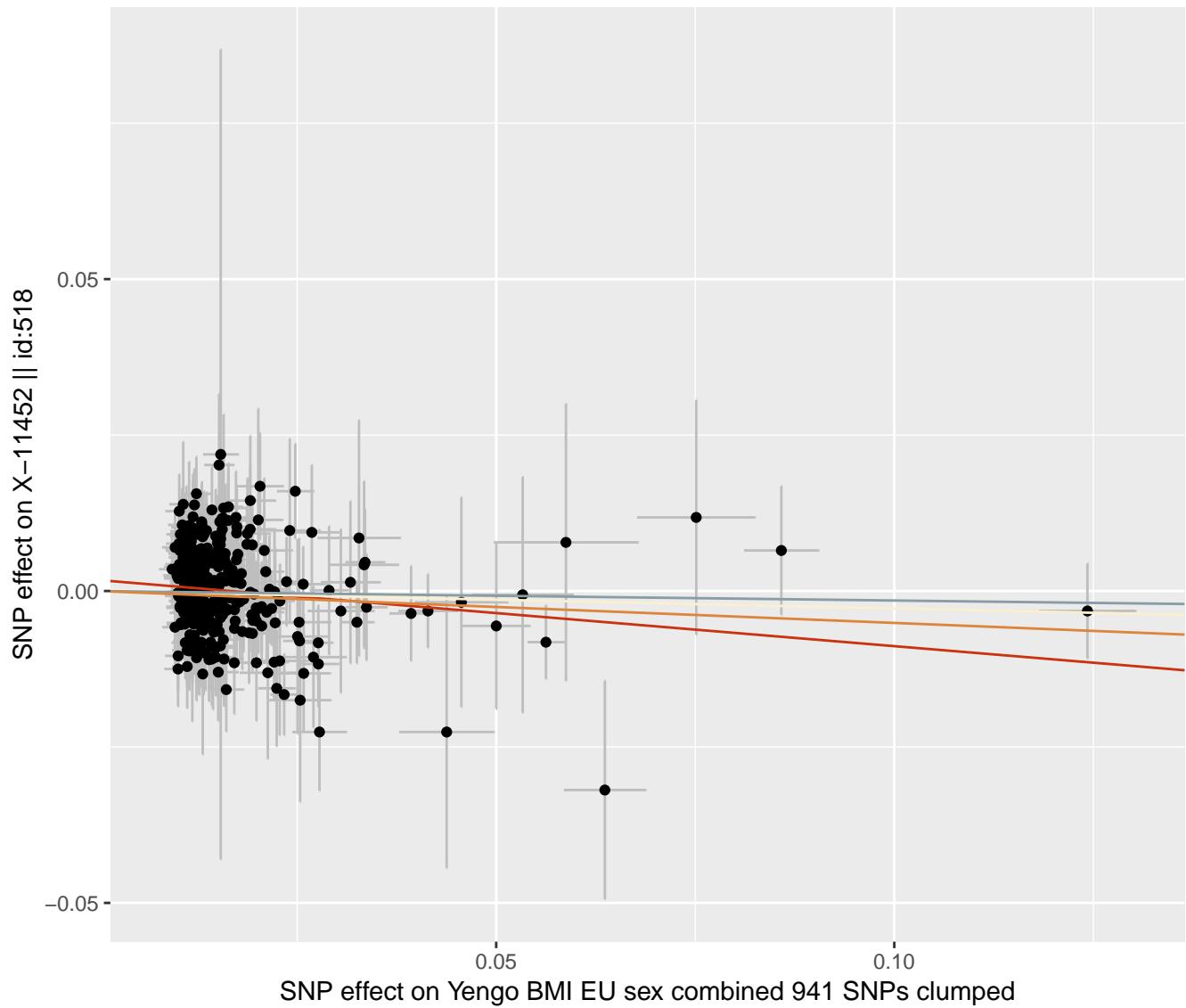
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

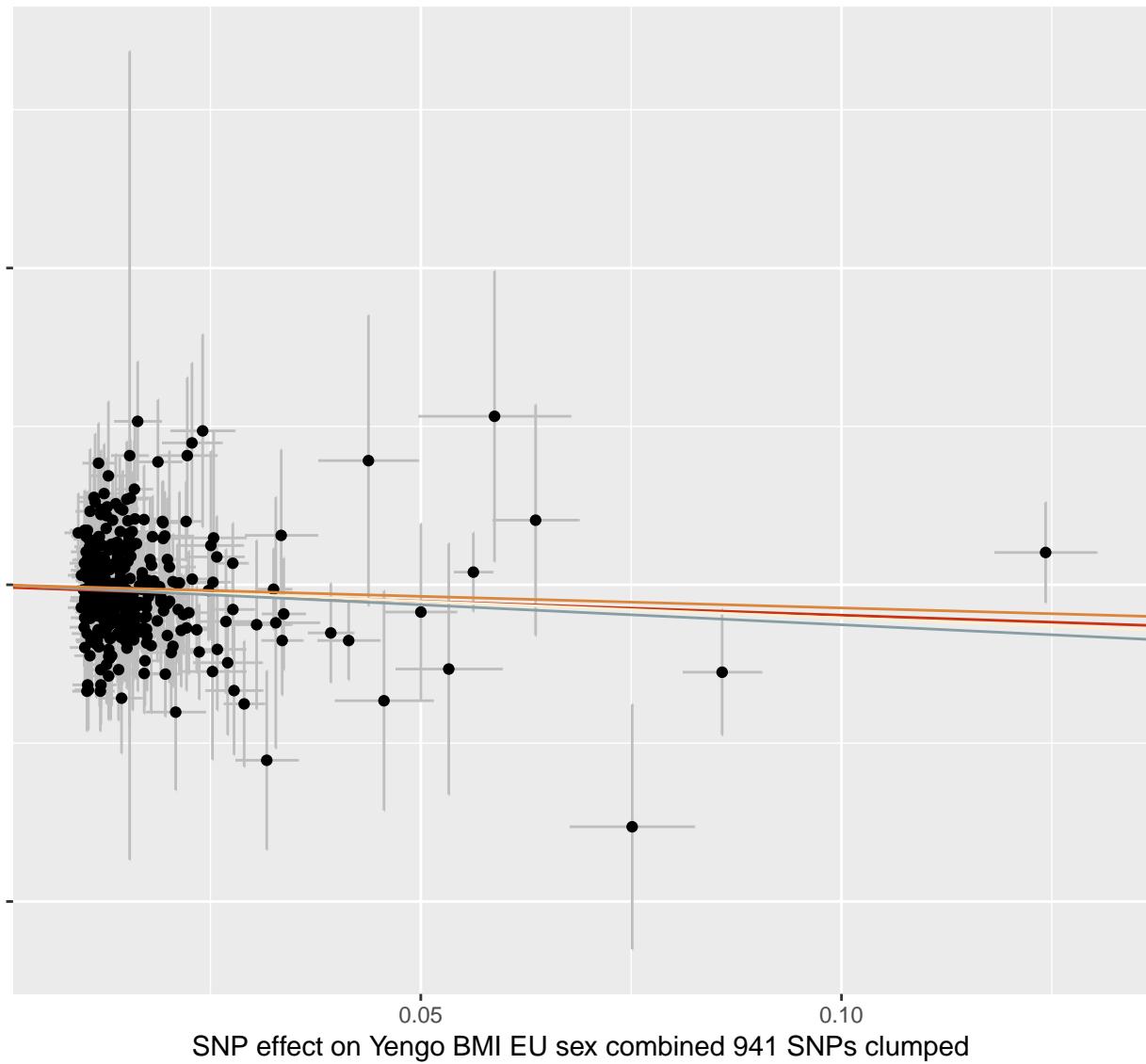


Weighted median



Weighted mode

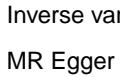
SNP effect on X-11469 || id:519



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

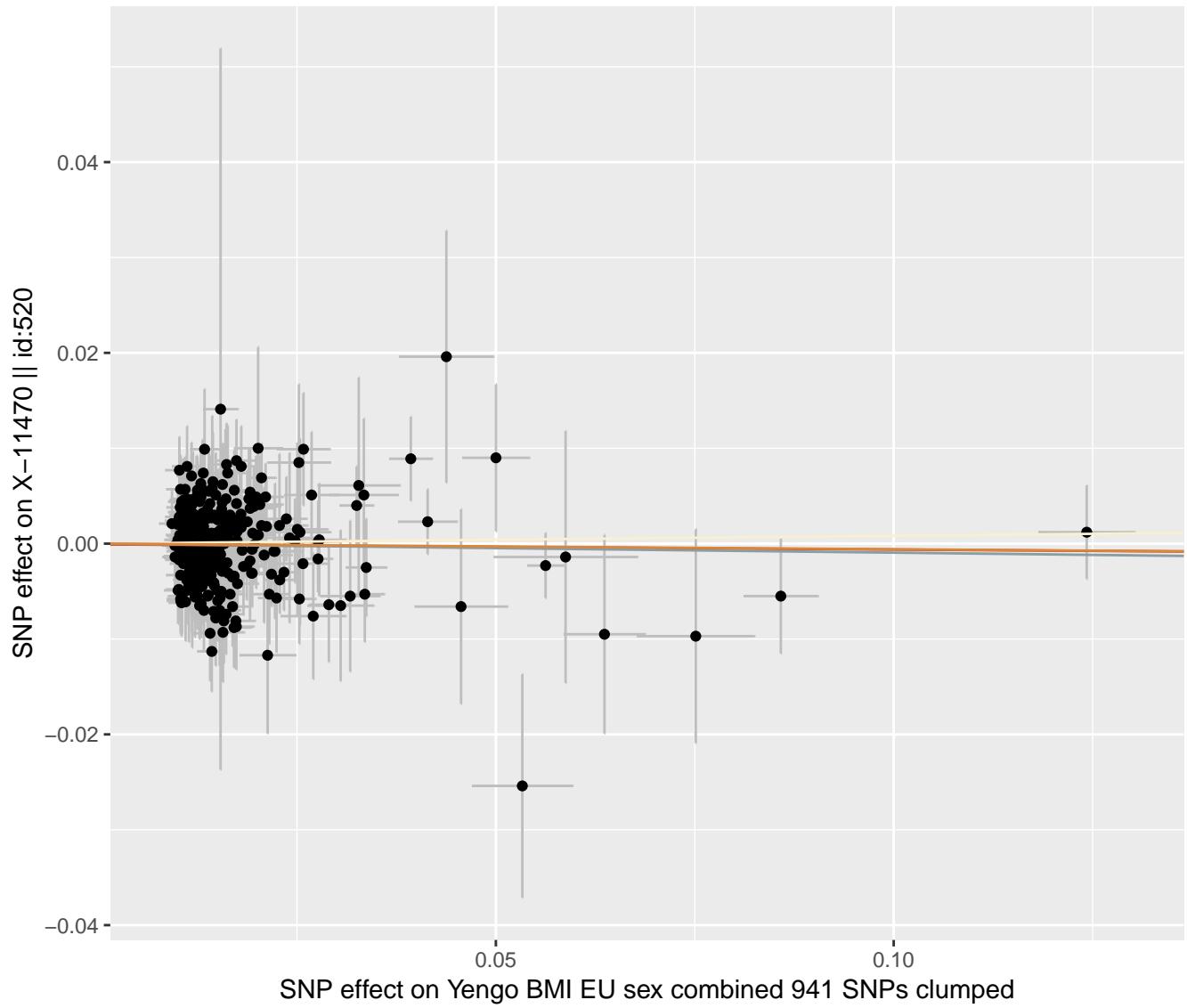
# MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

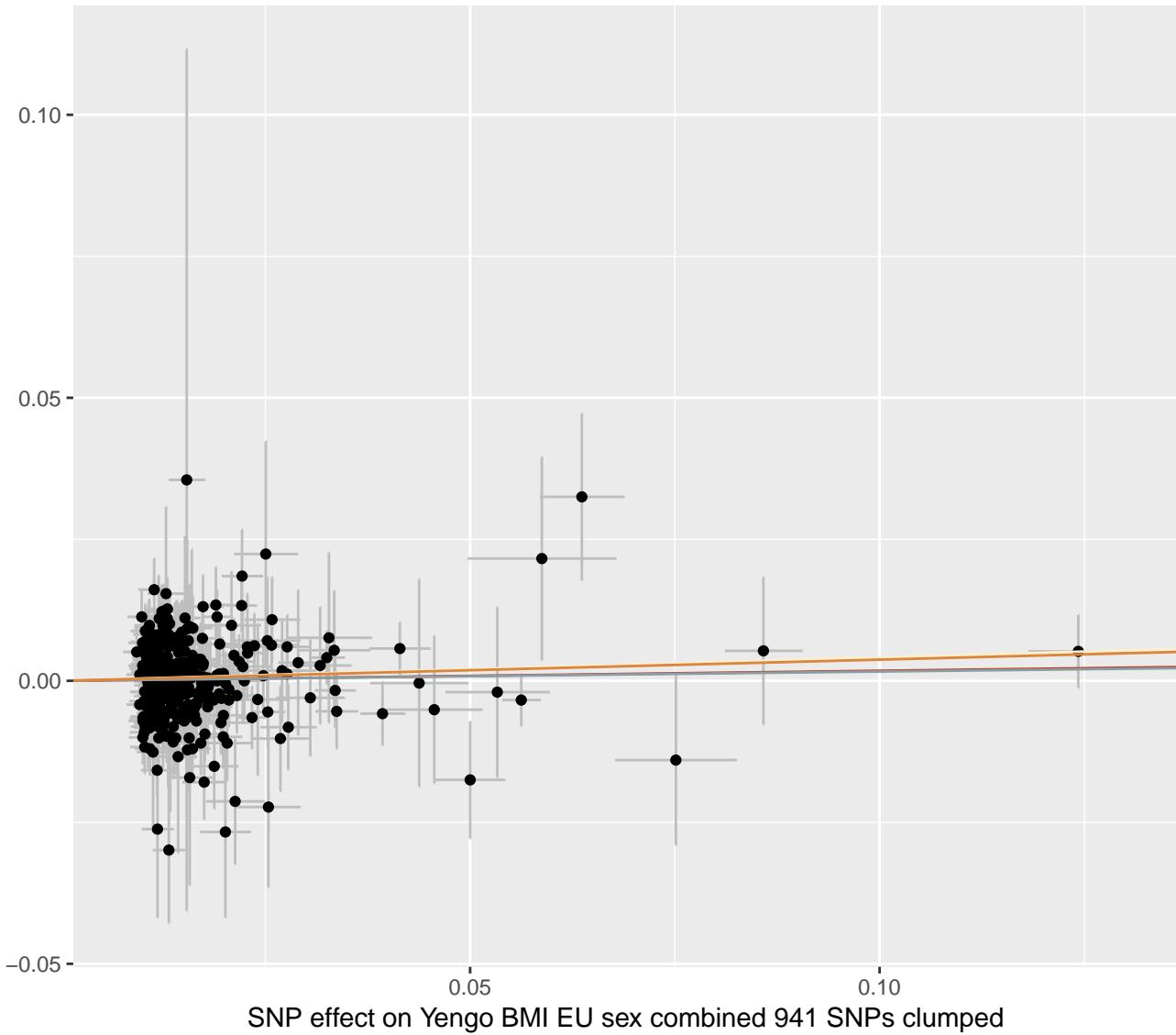


Weighted median



Weighted mode

SNP effect on X-11478 || id:521



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

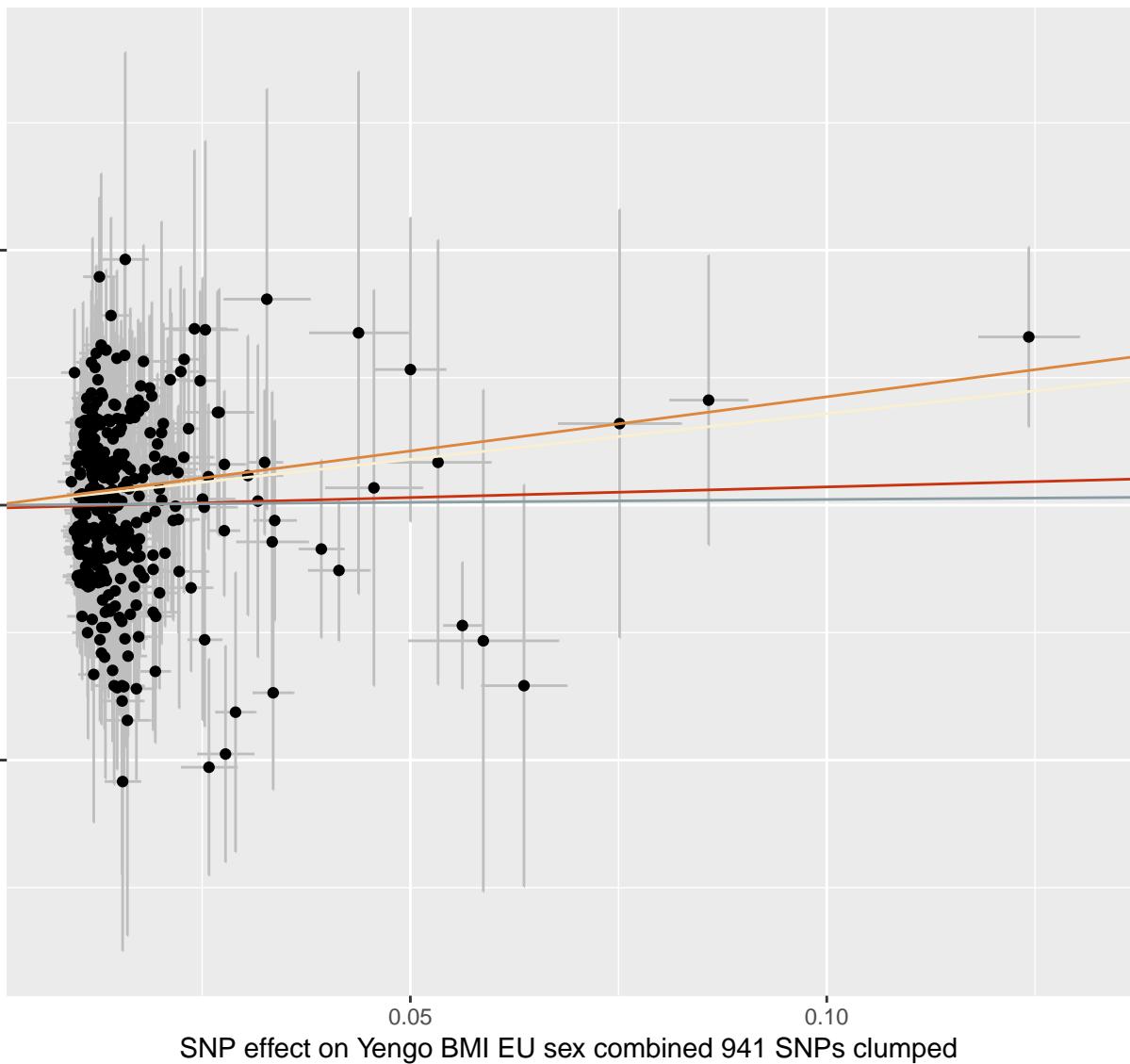


Weighted median



Weighted mode

SNP effect on X-11483 || id:522



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

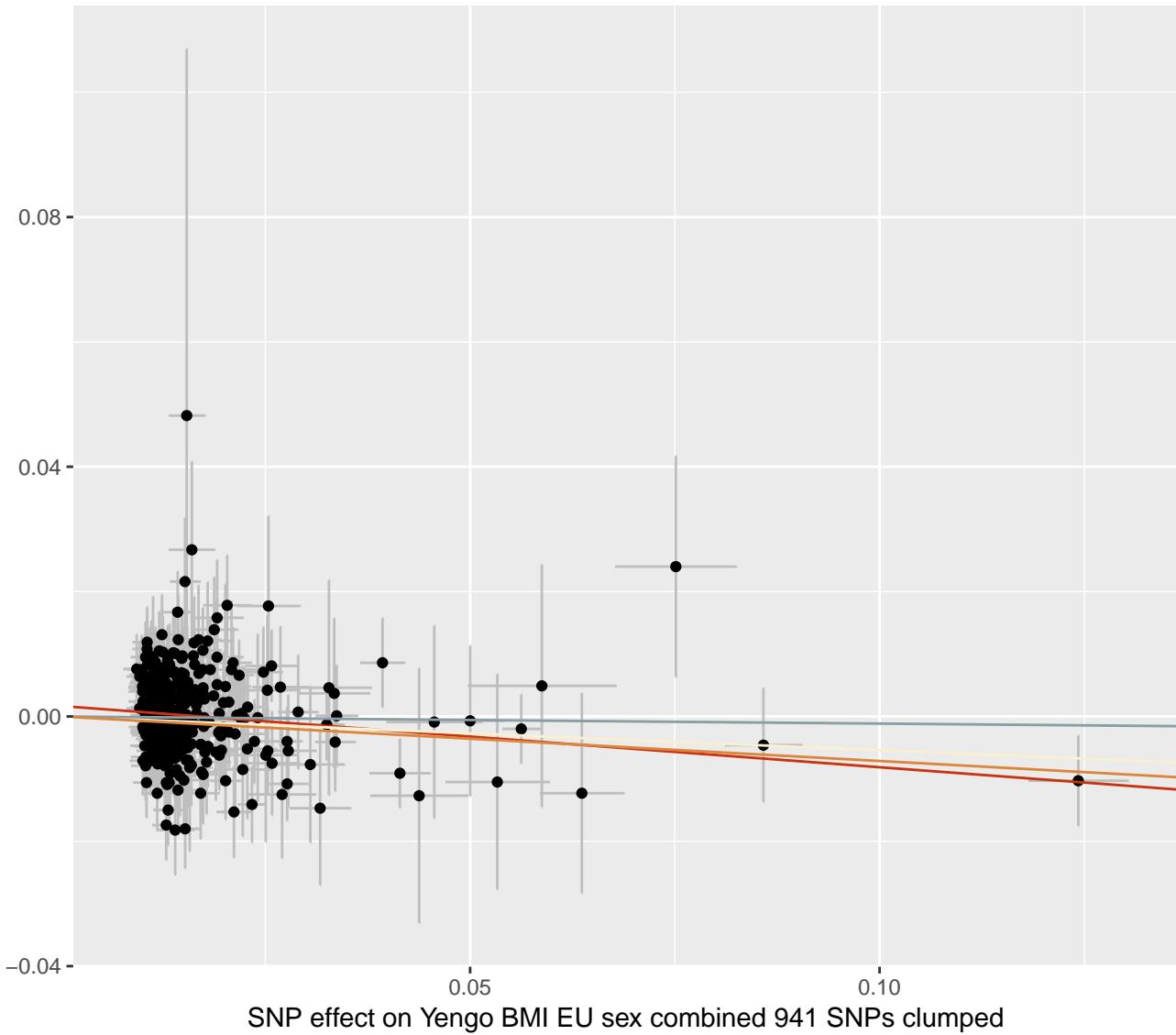


Weighted median



Weighted mode

SNP effect on X-11485 || id:523



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

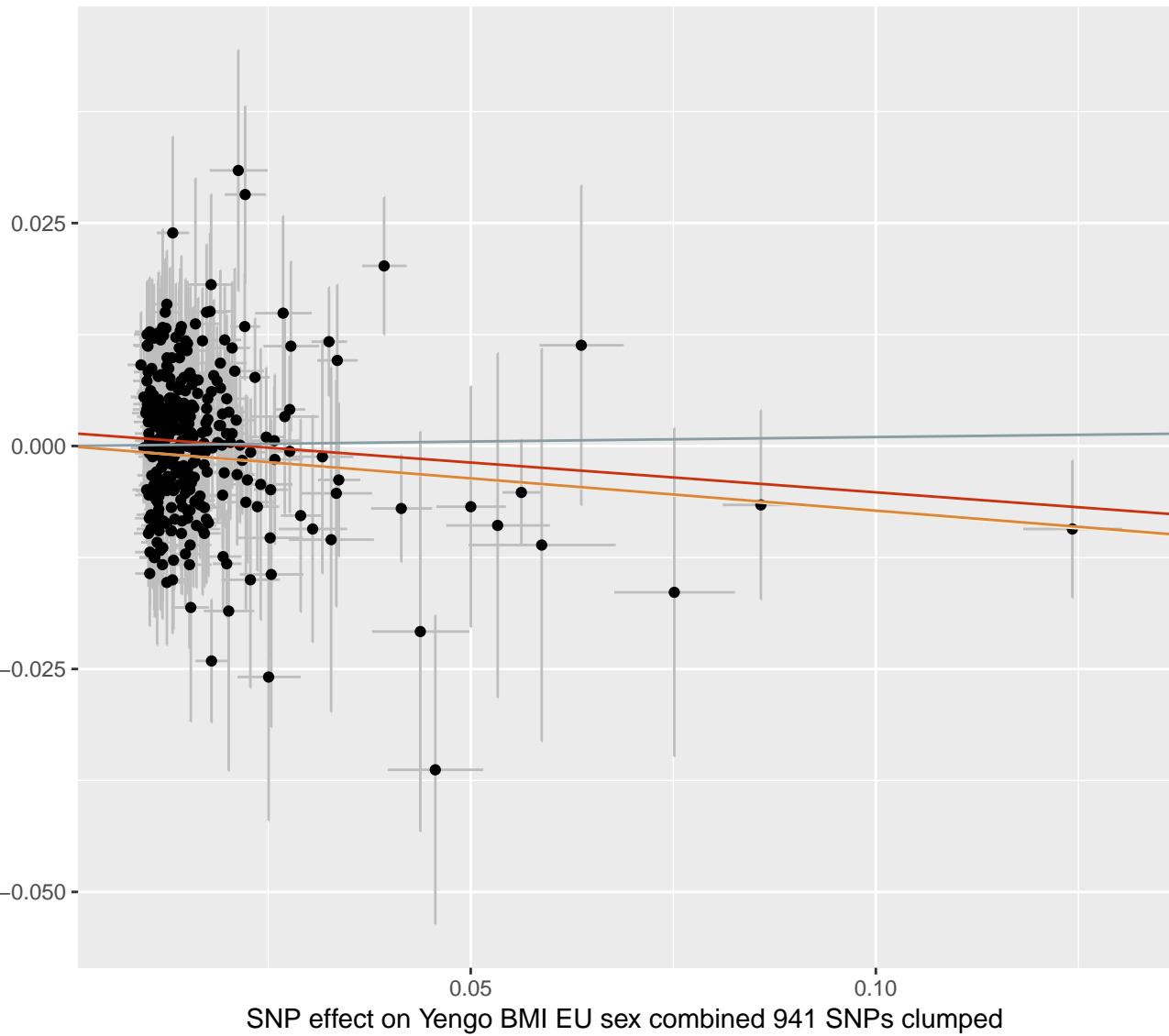


Weighted median



Weighted mode

SNP effect on X-11491 || id:524



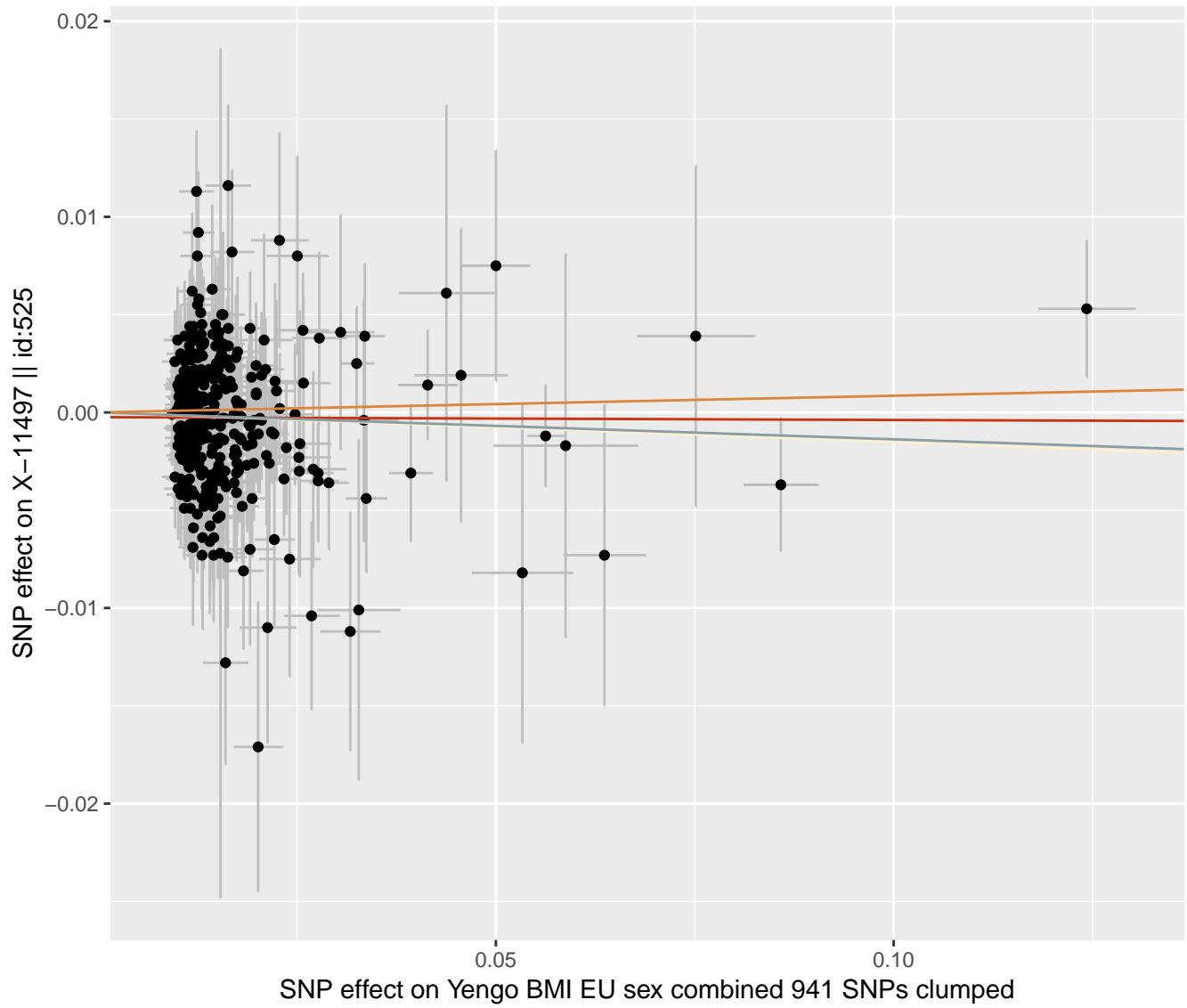
### MR Test

Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



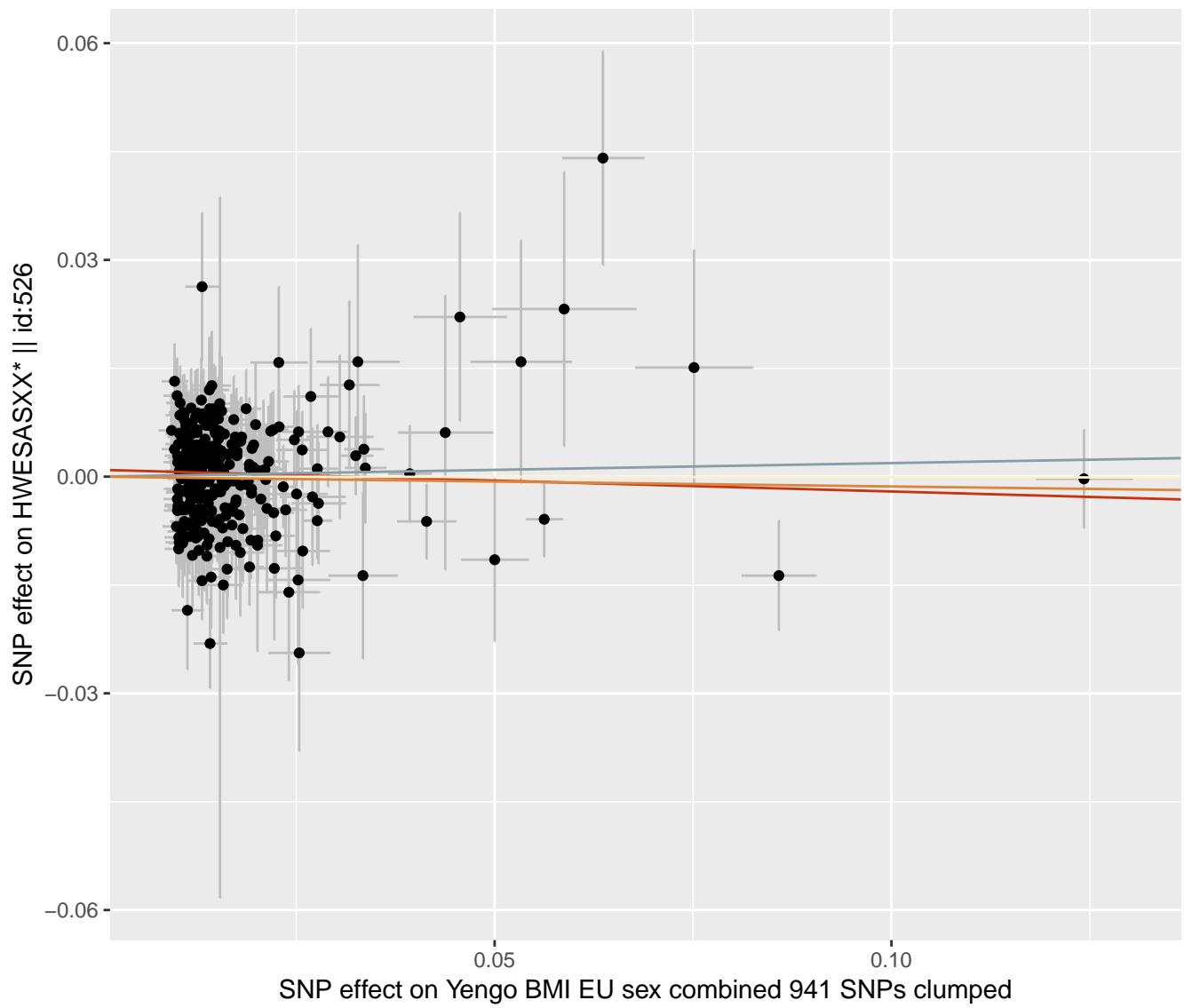
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



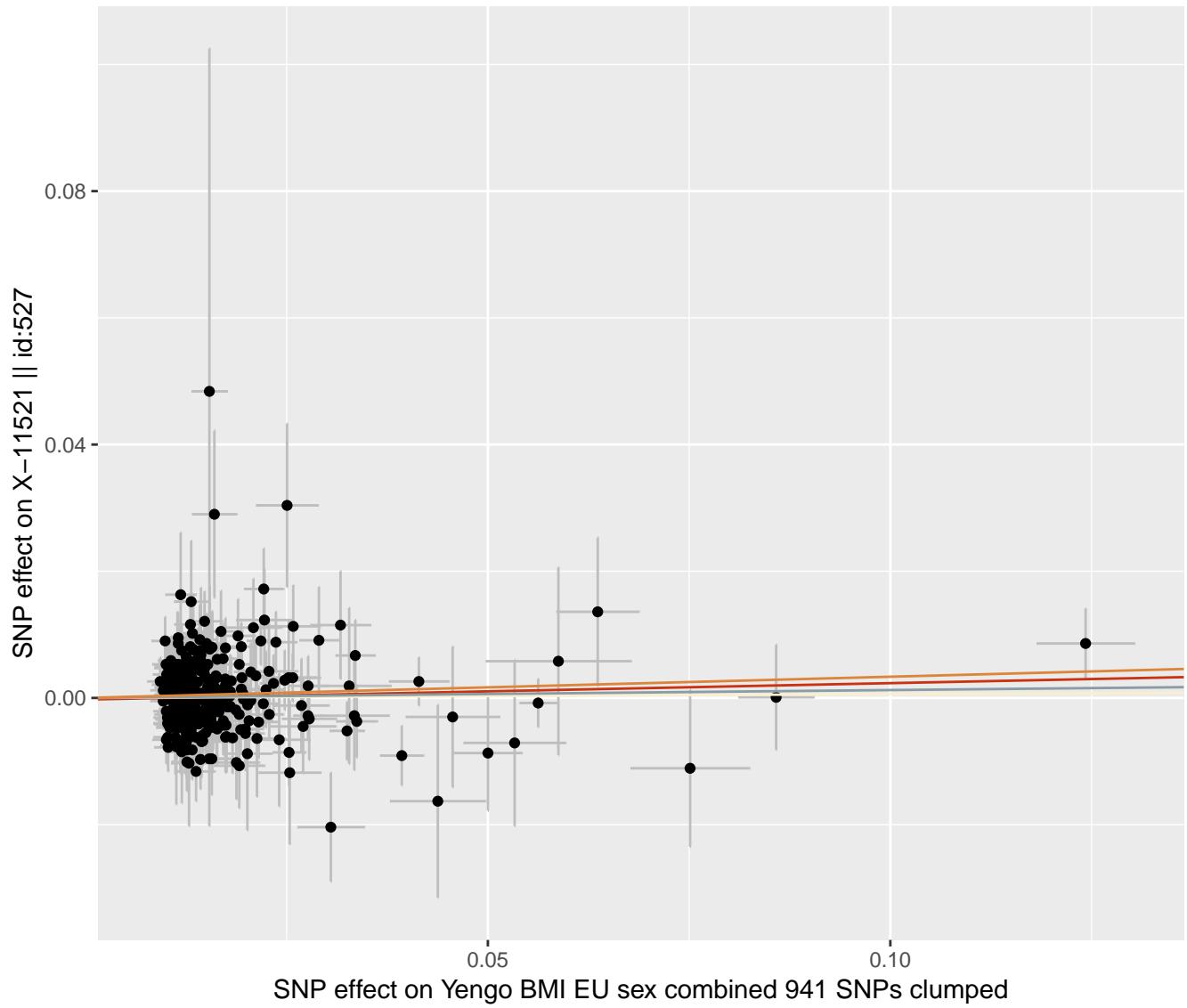
MR Egger



Weighted median



Weighted mode



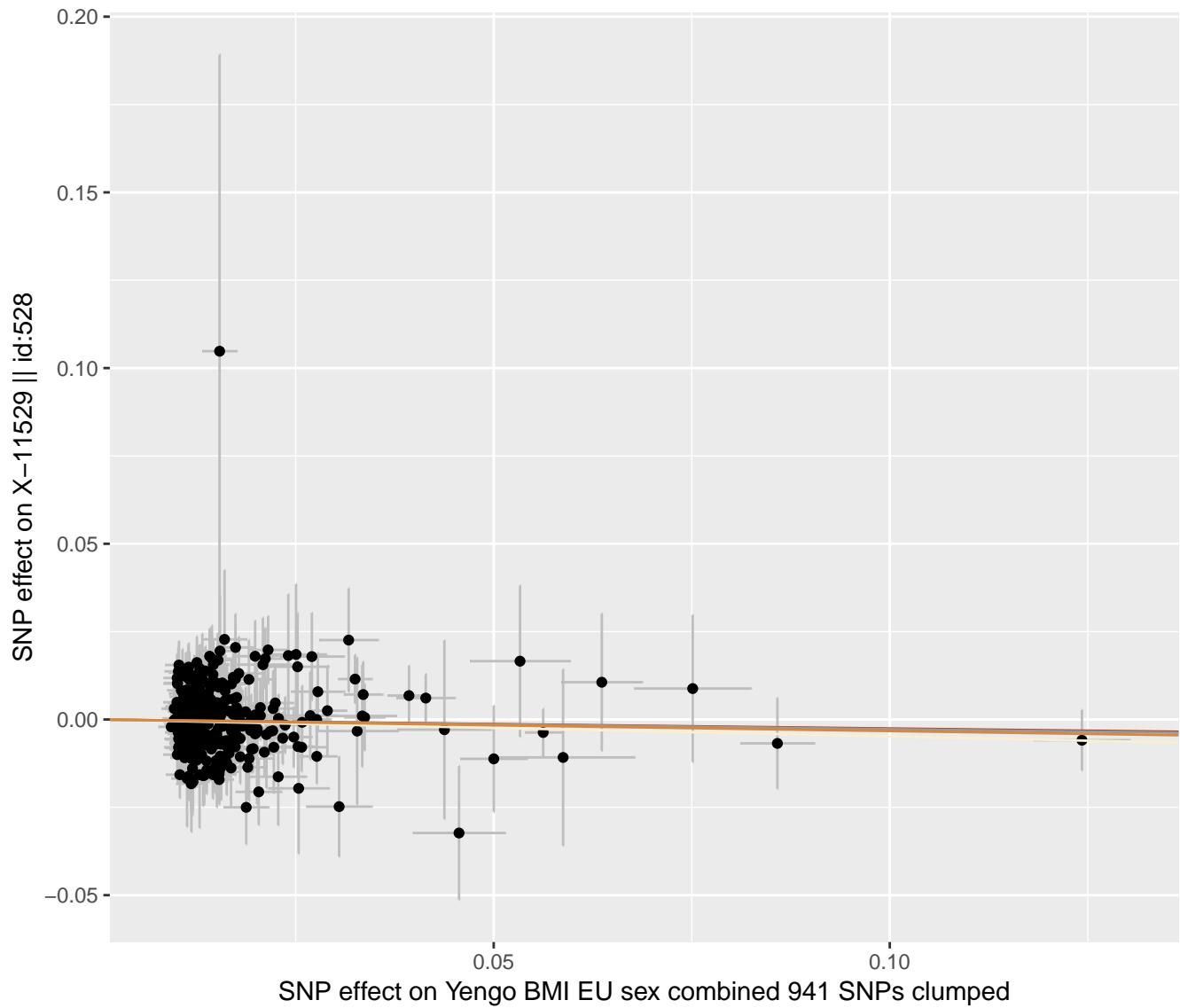
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



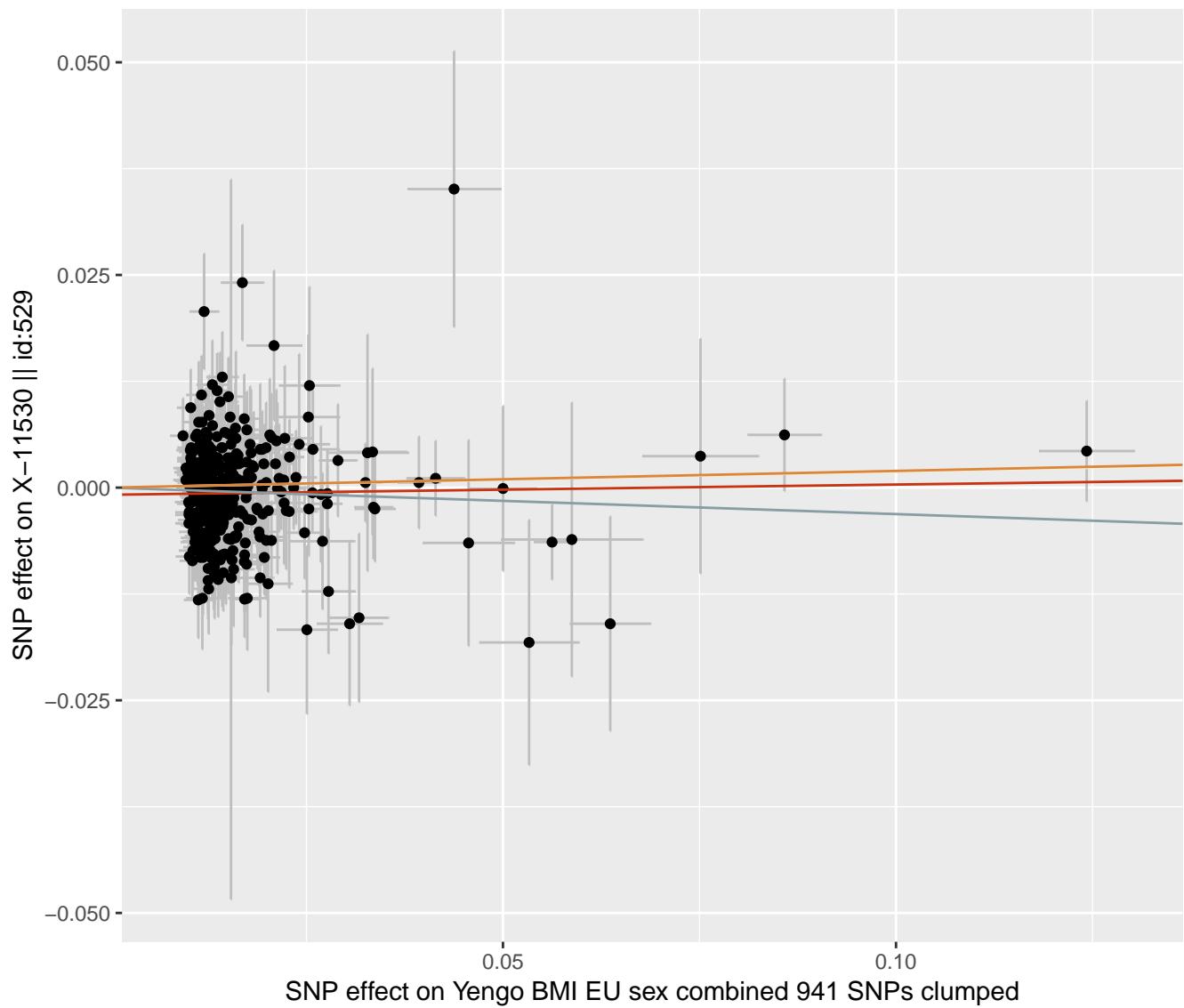
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



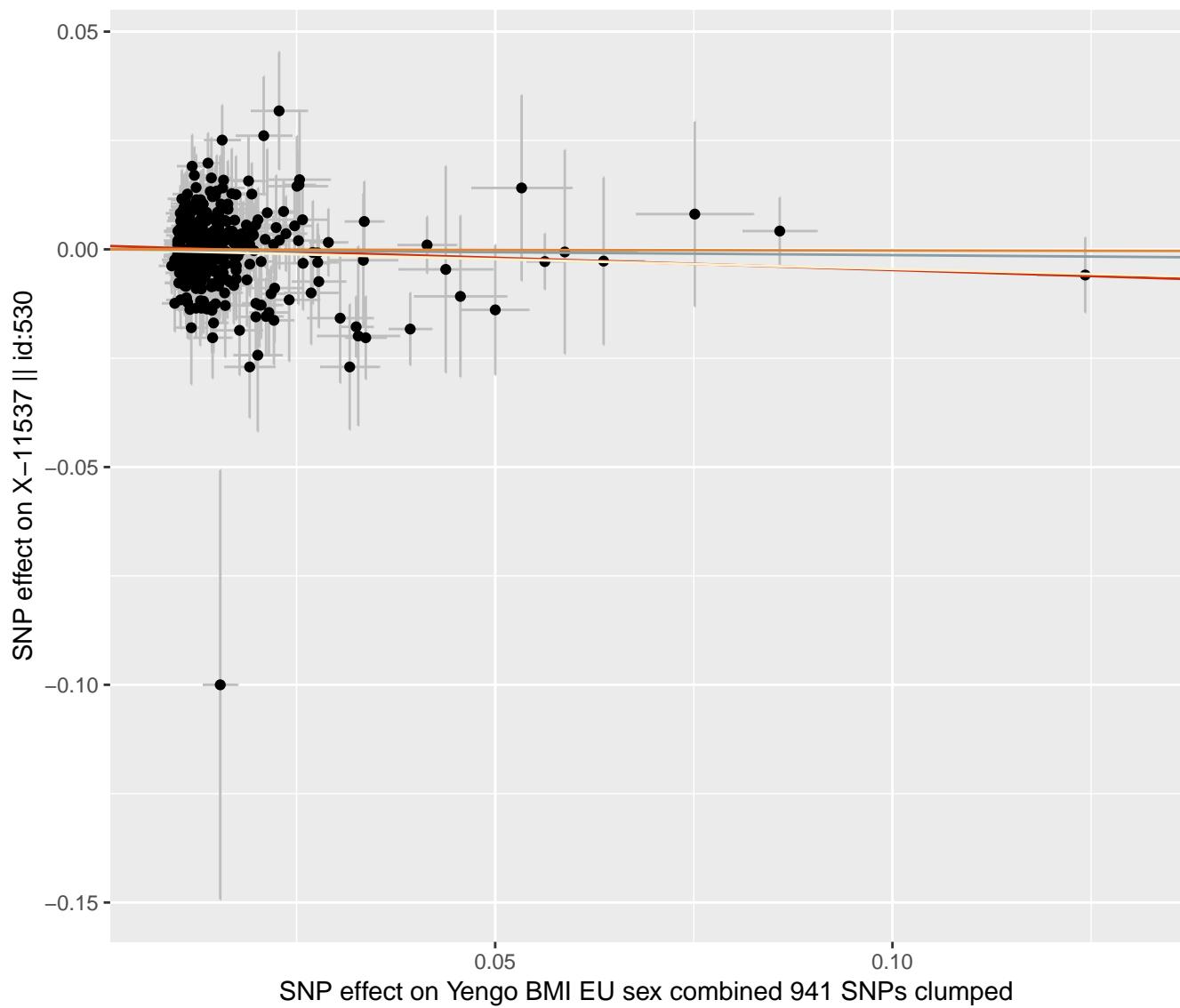
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

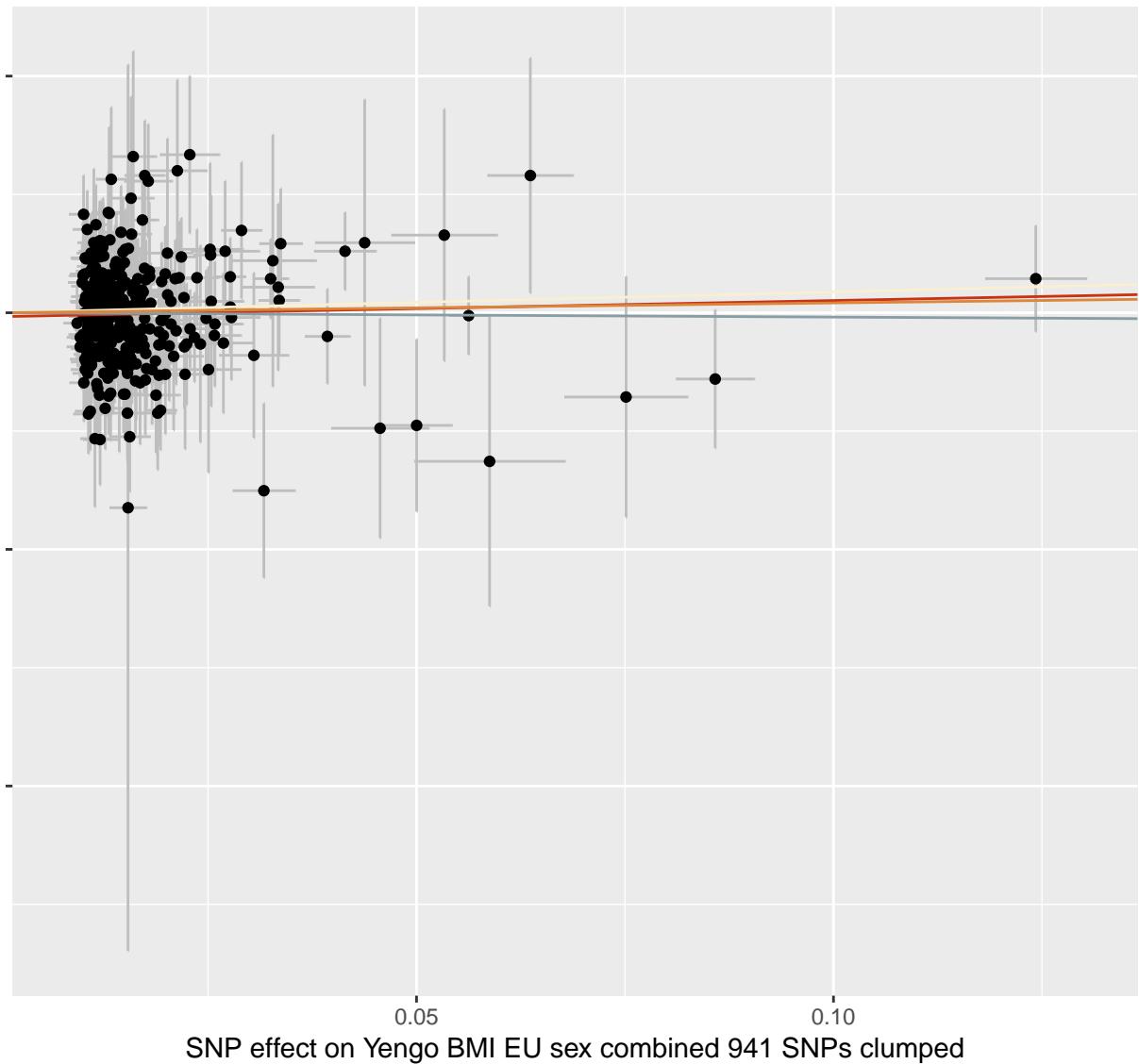


Weighted median



Weighted mode

SNP effect on X-11538 || id:531



### MR Test



Inverse variance weighted (multiplicative random effects)



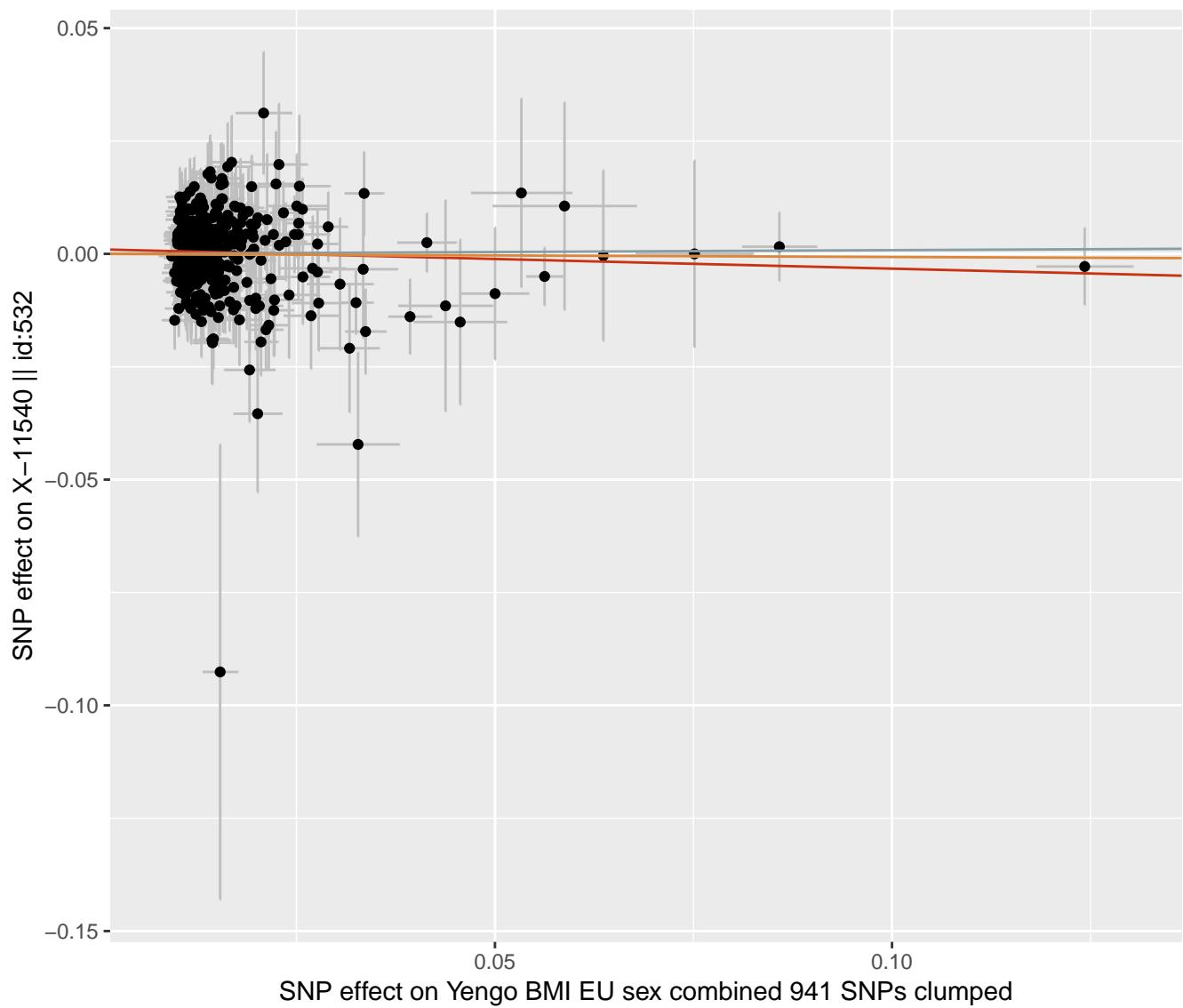
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

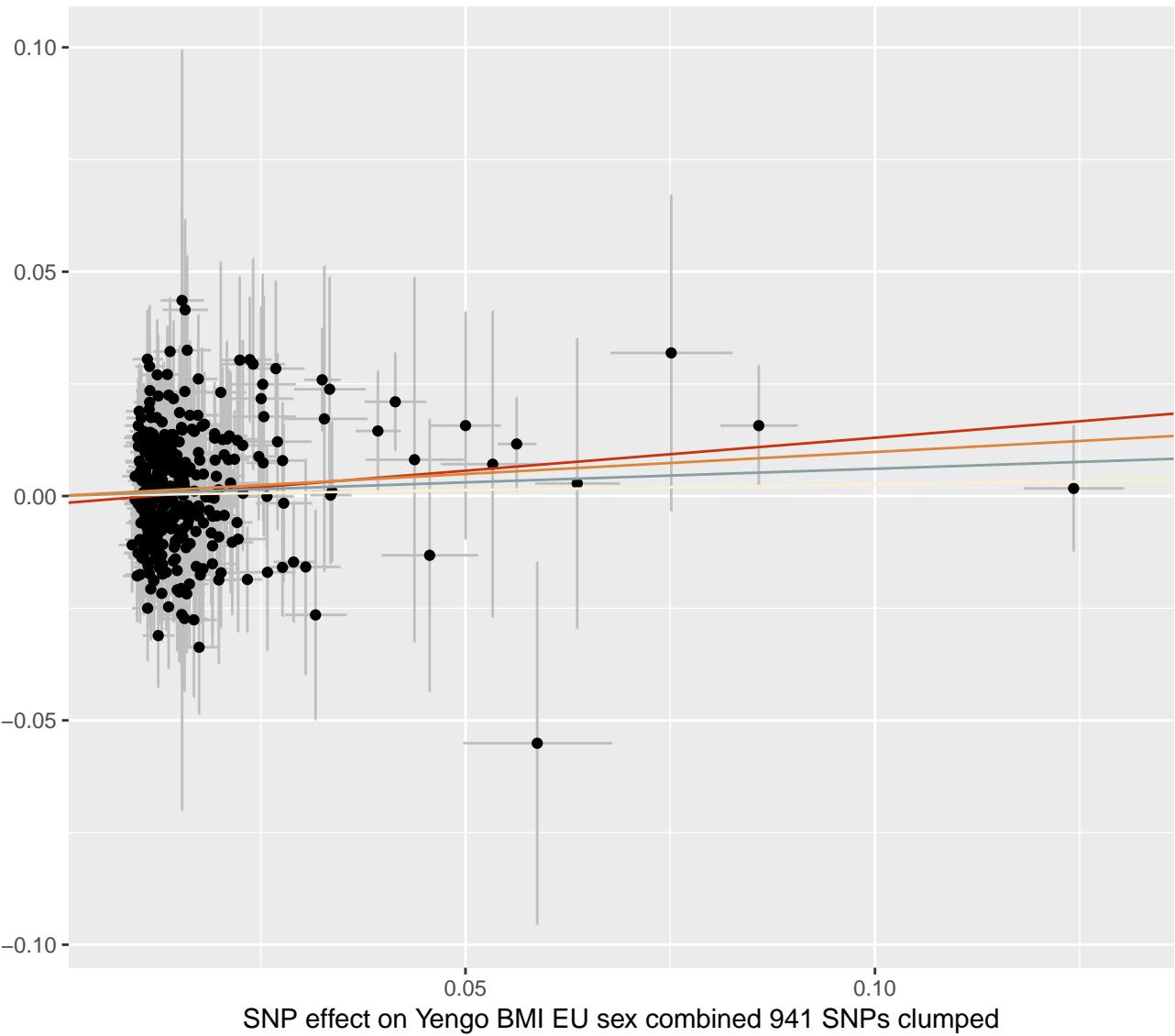


Weighted median



Weighted mode

SNP effect on X-11546 || id:533



### MR Test



Inverse variance weighted (multiplicative random effects)



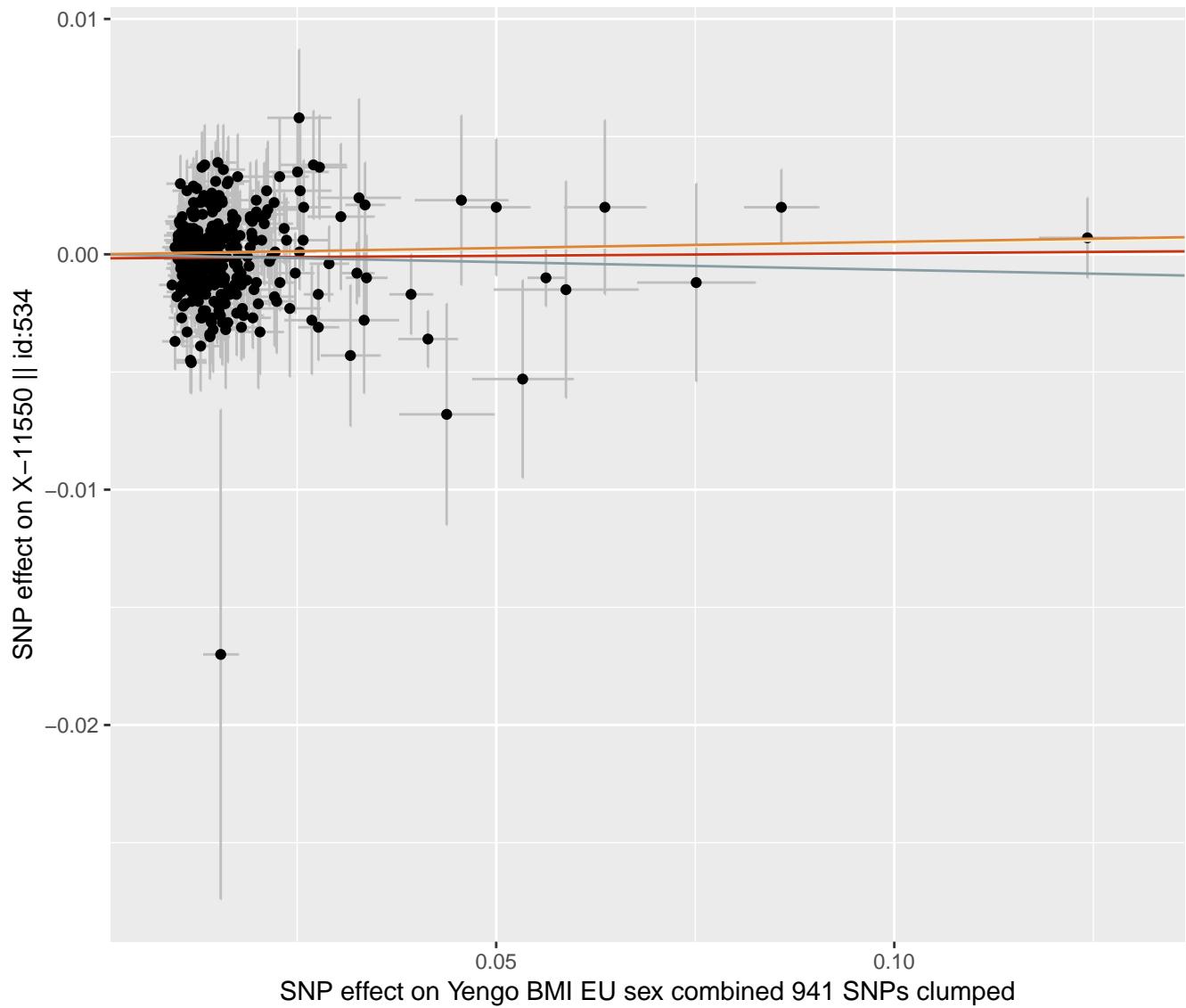
MR Egger



Weighted median

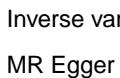


Weighted mode

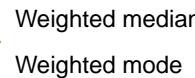


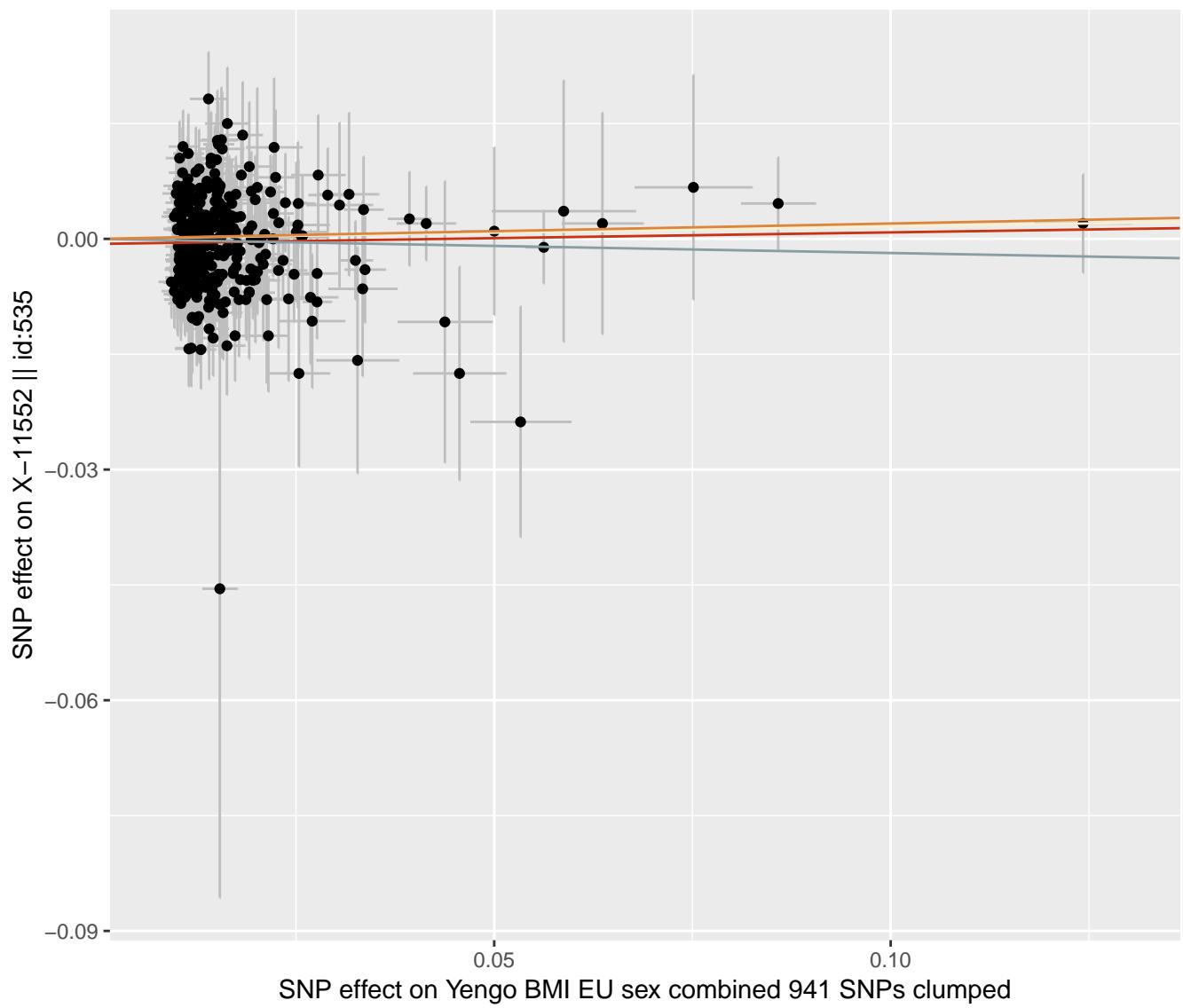
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



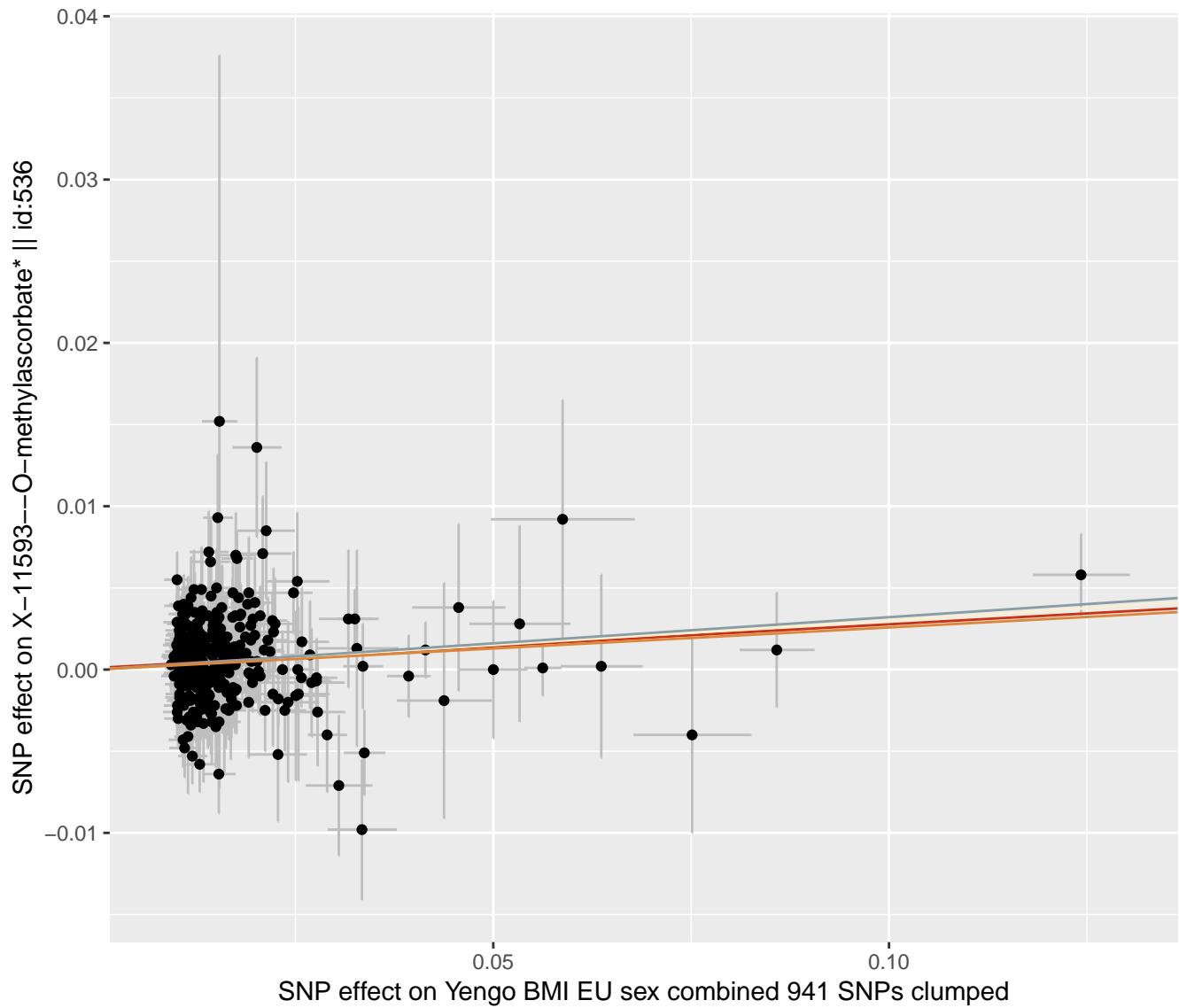
### MR Test

Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



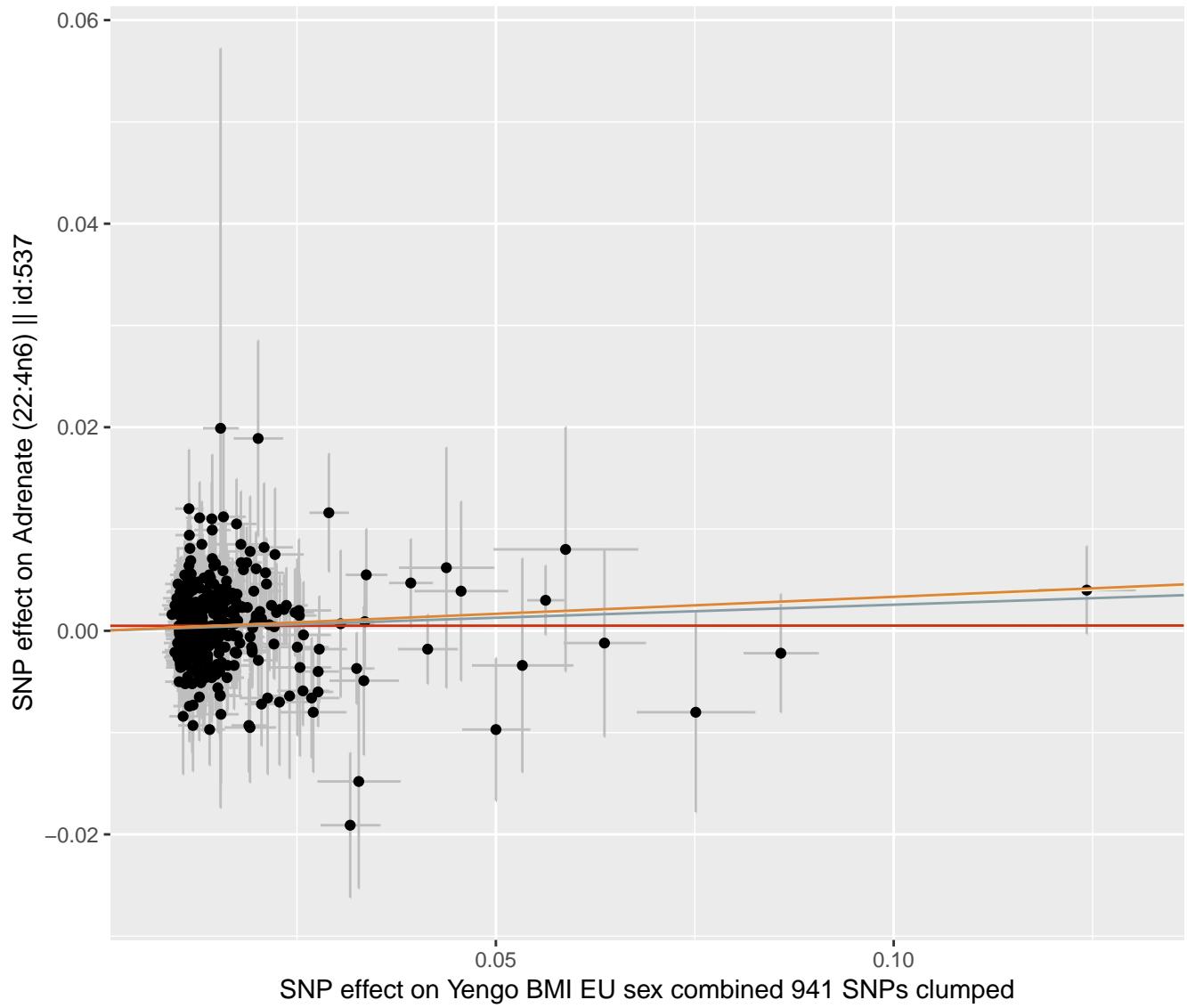
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



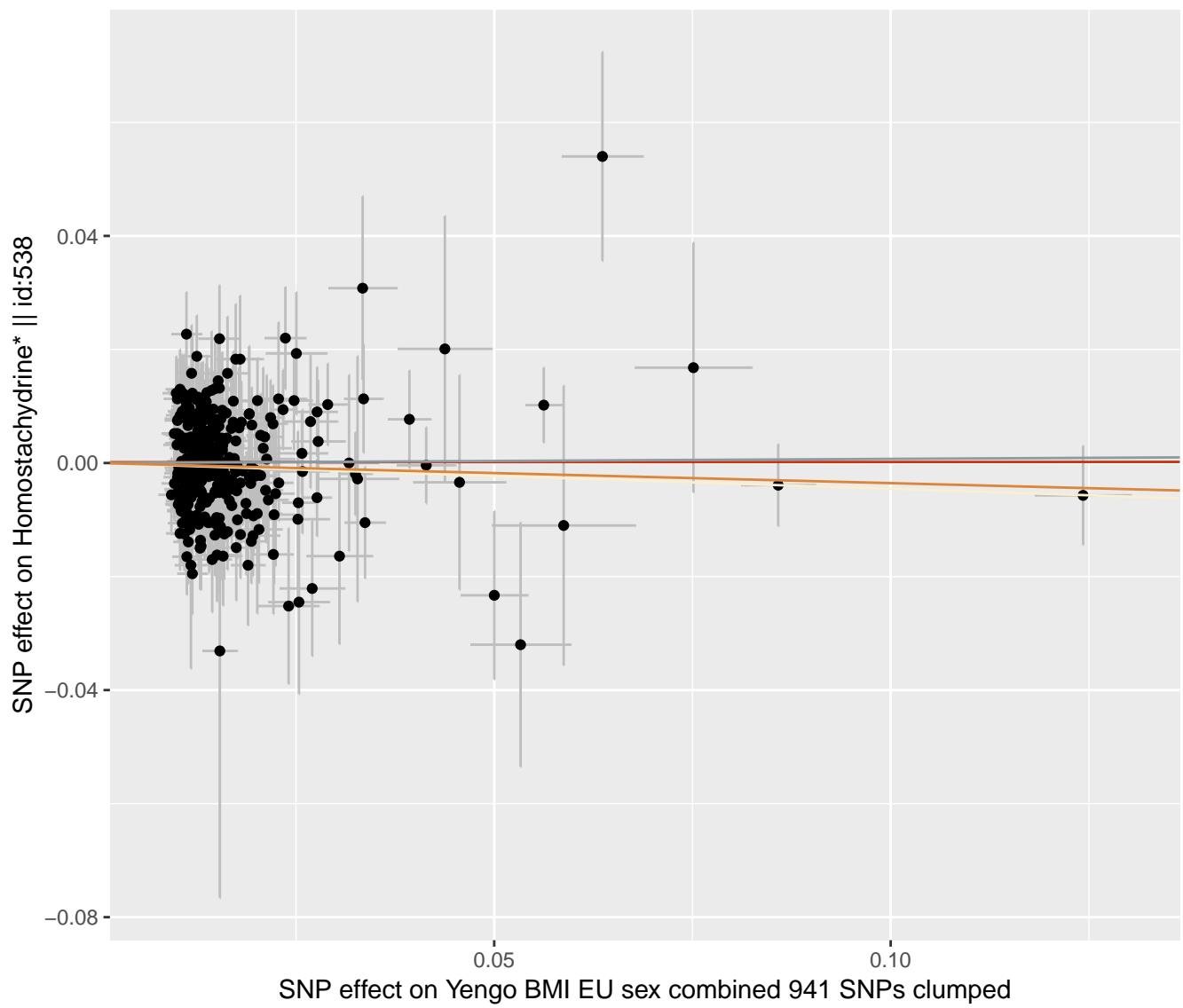
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



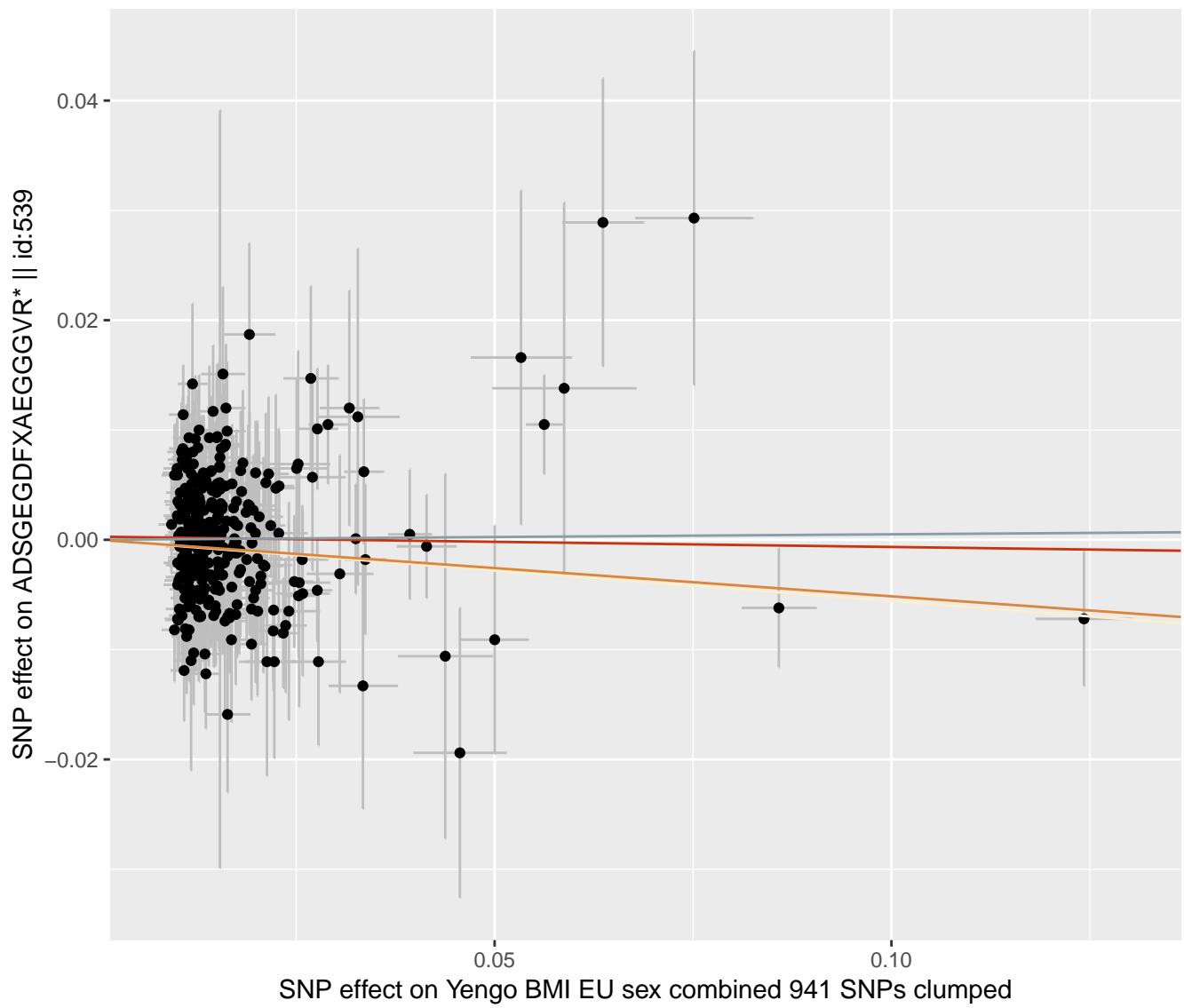
MR Egger



Weighted median

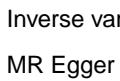


Weighted mode



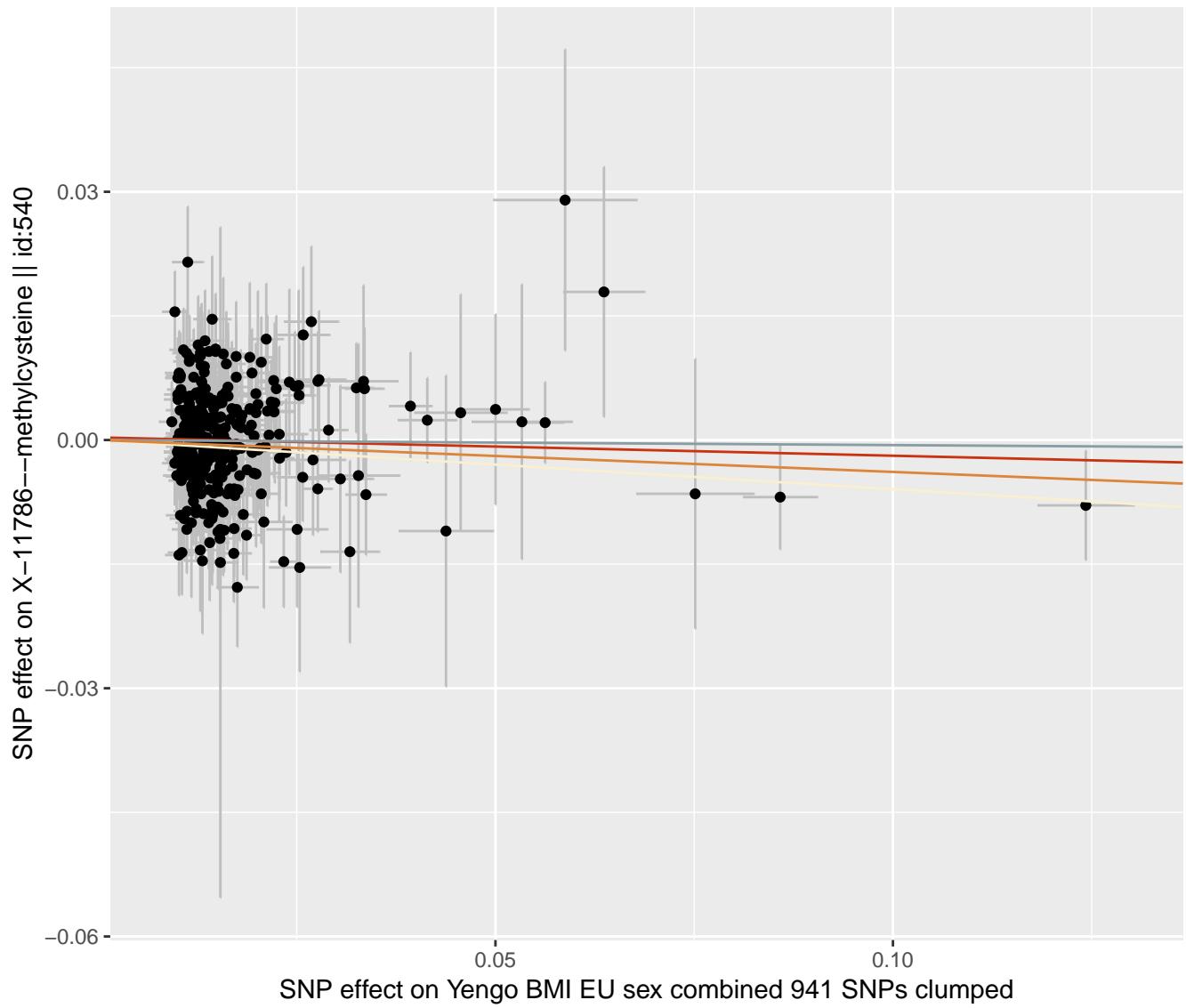
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



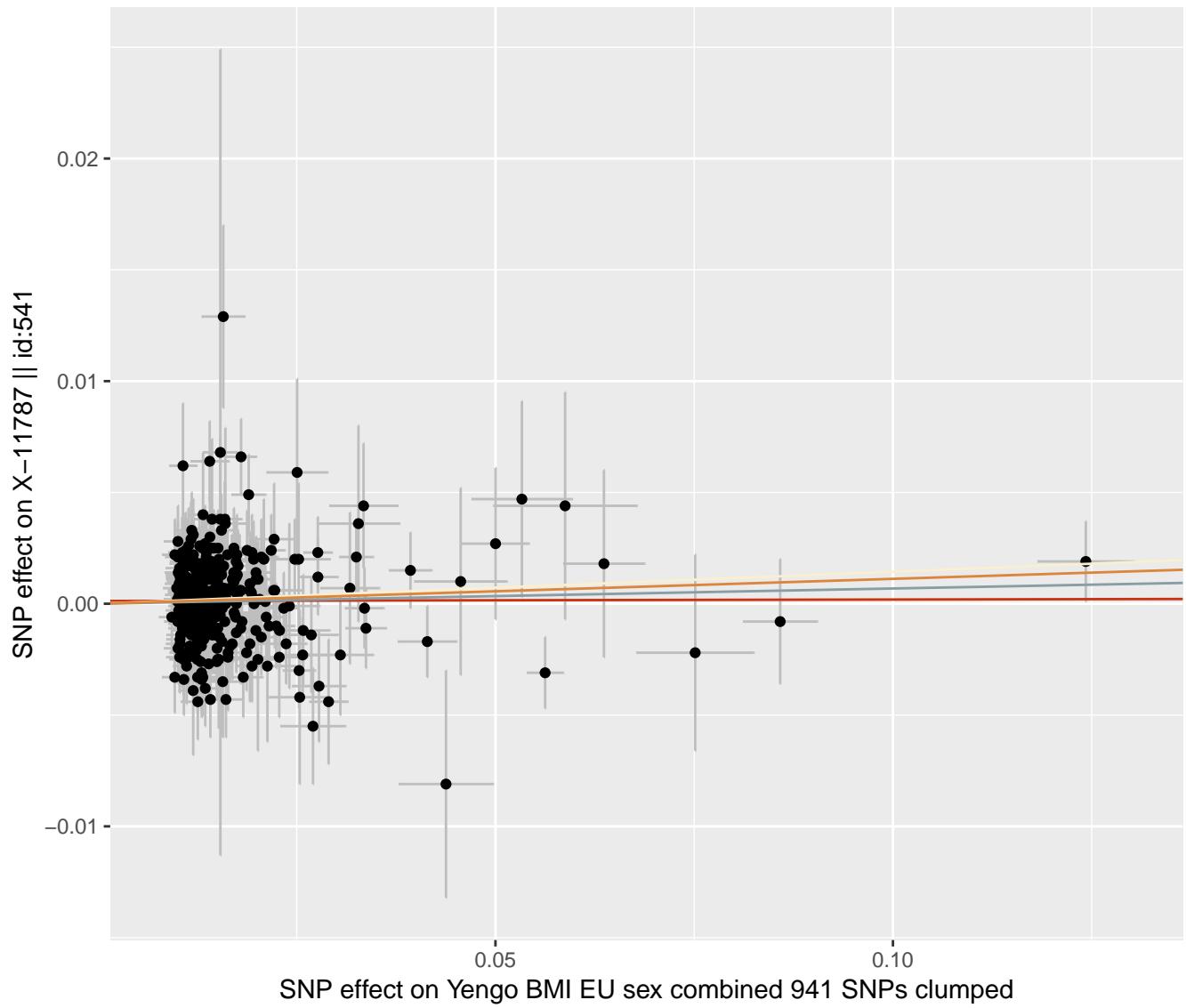
MR Egger



Weighted median

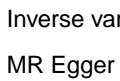


Weighted mode



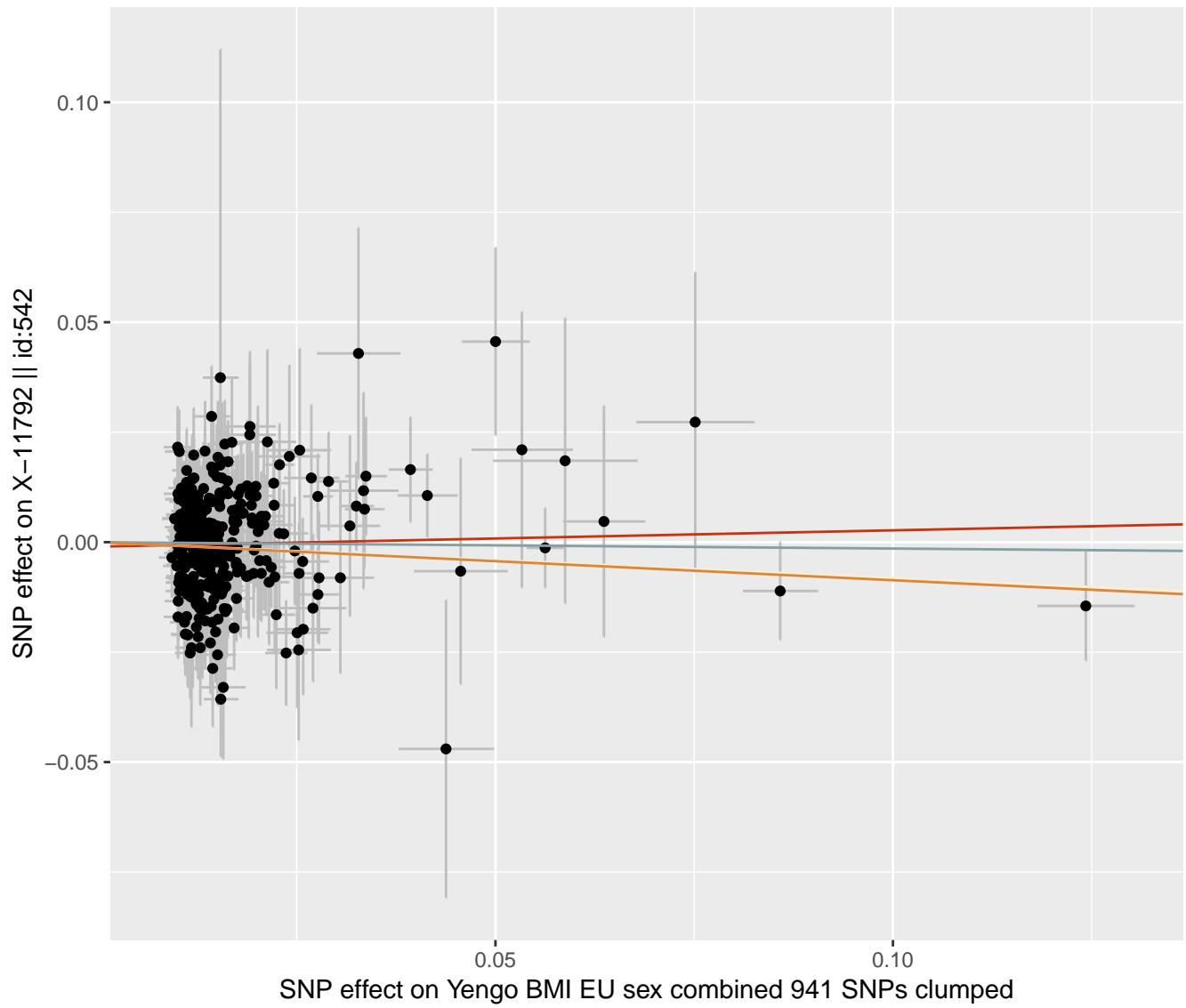
# MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

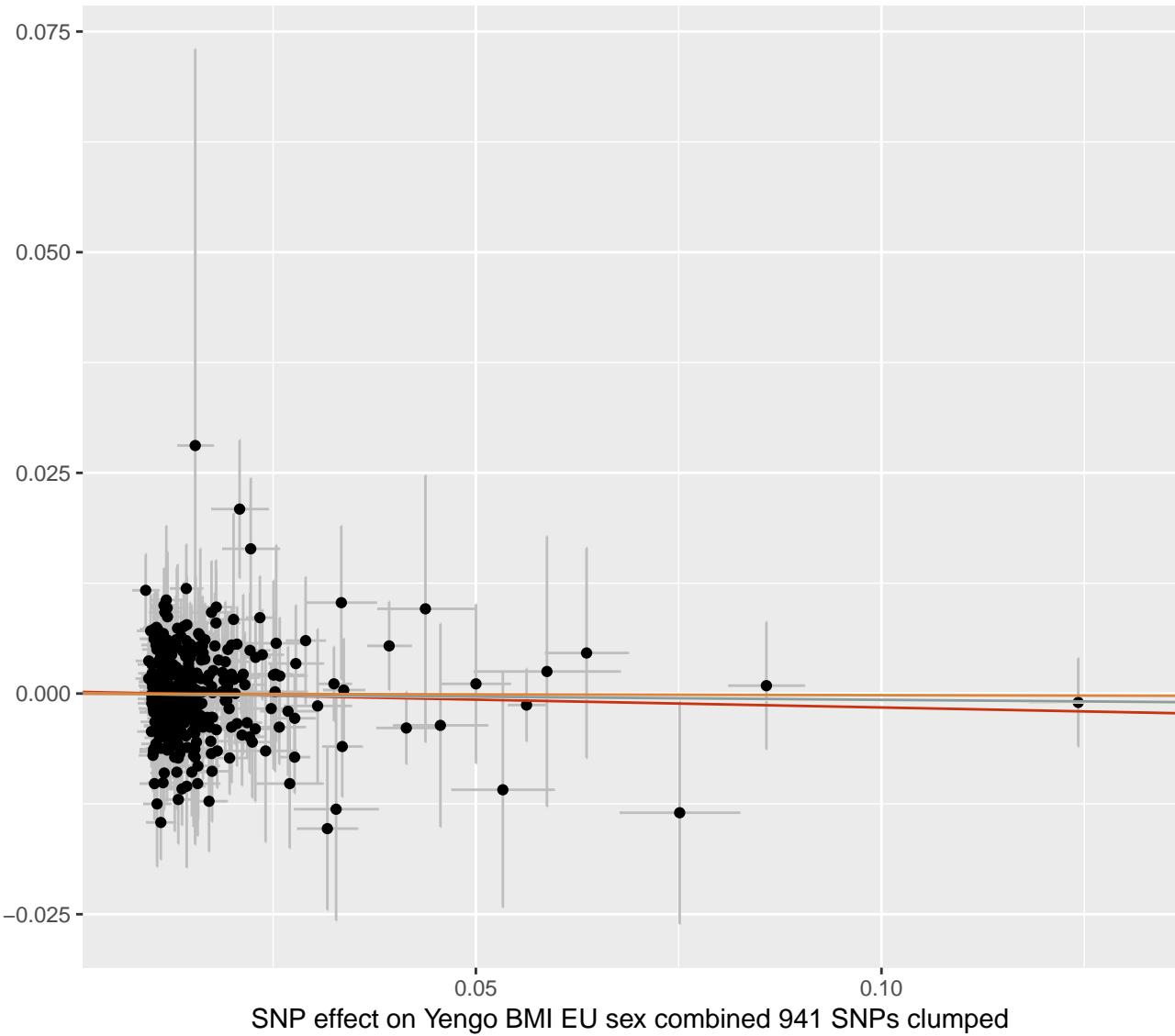


Weighted median



Weighted mode

SNP effect on X-11793--oxidized bilirubin\* || id:543



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

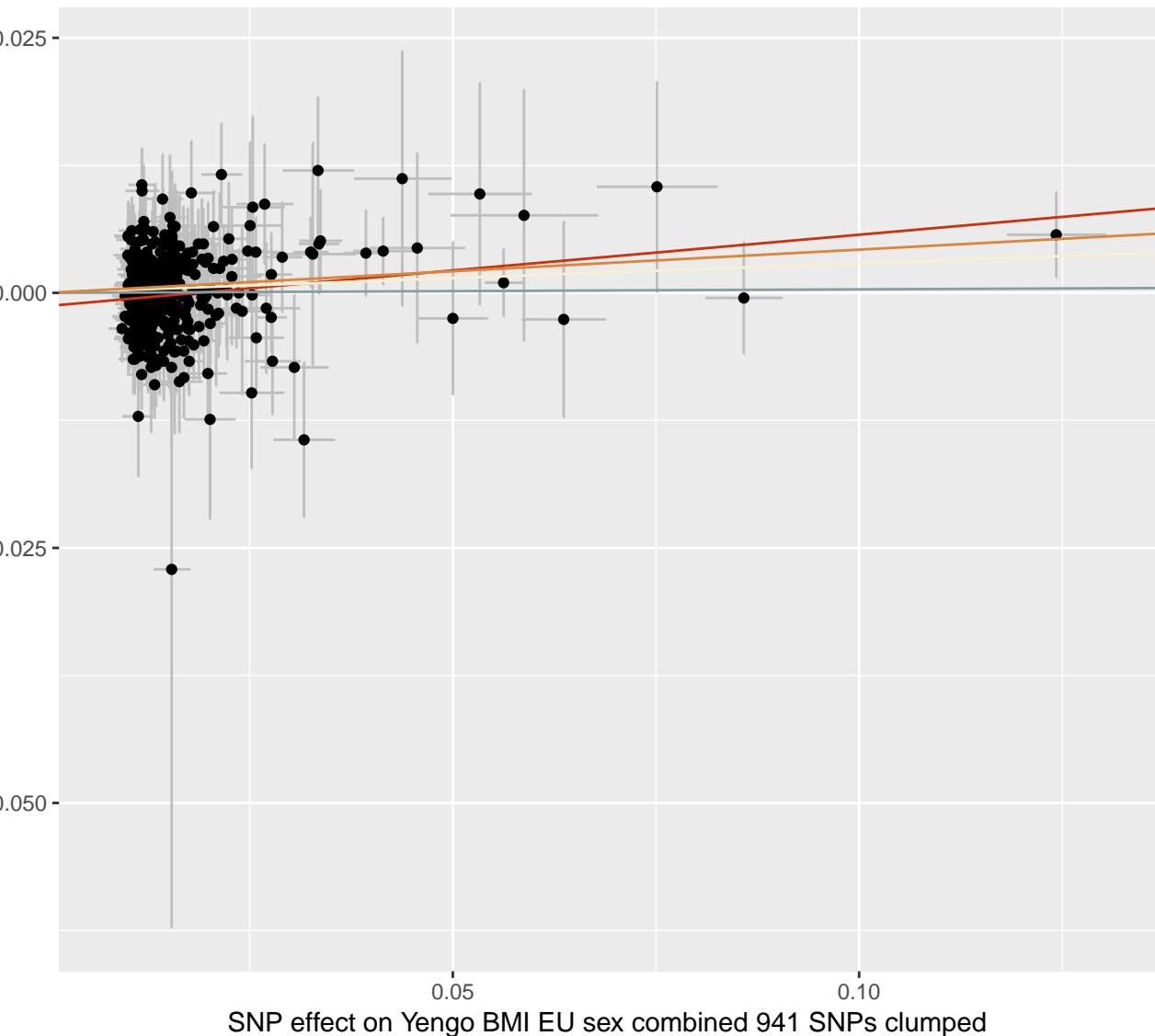


Weighted median



Weighted mode

SNP effect on X-11795 || id:544



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

# MR Test



Inverse variance weighted (multiplicative random effects)



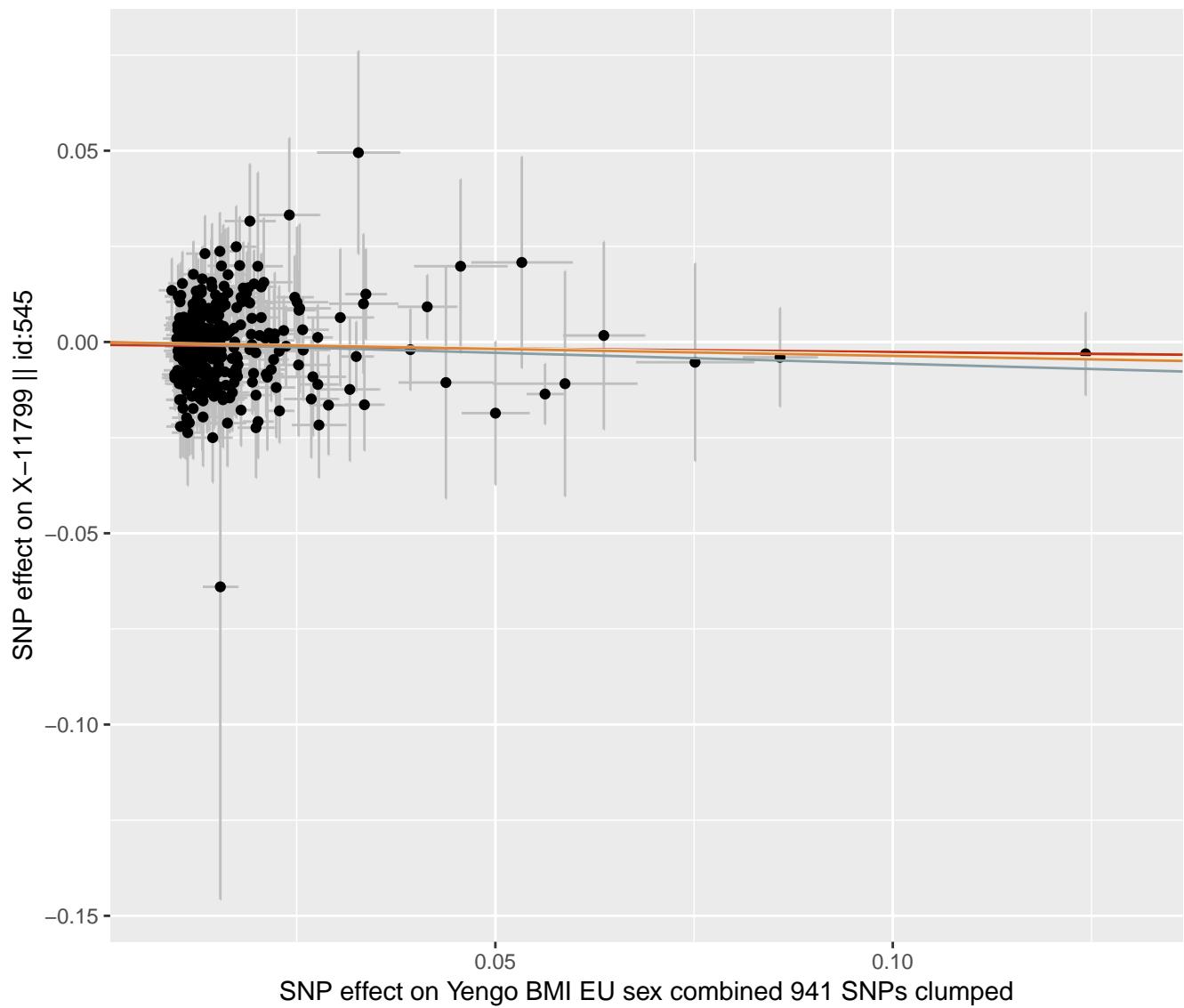
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



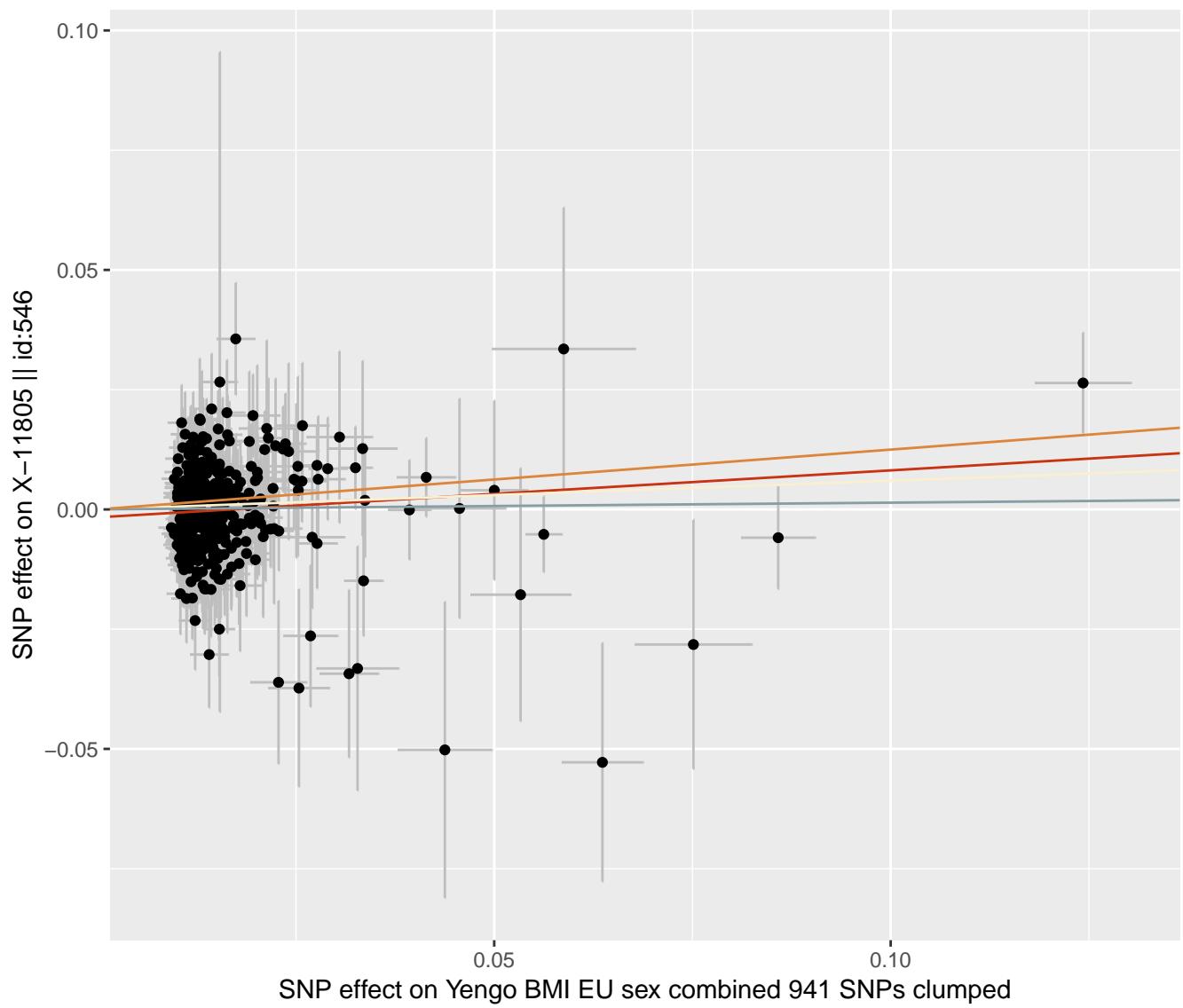
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

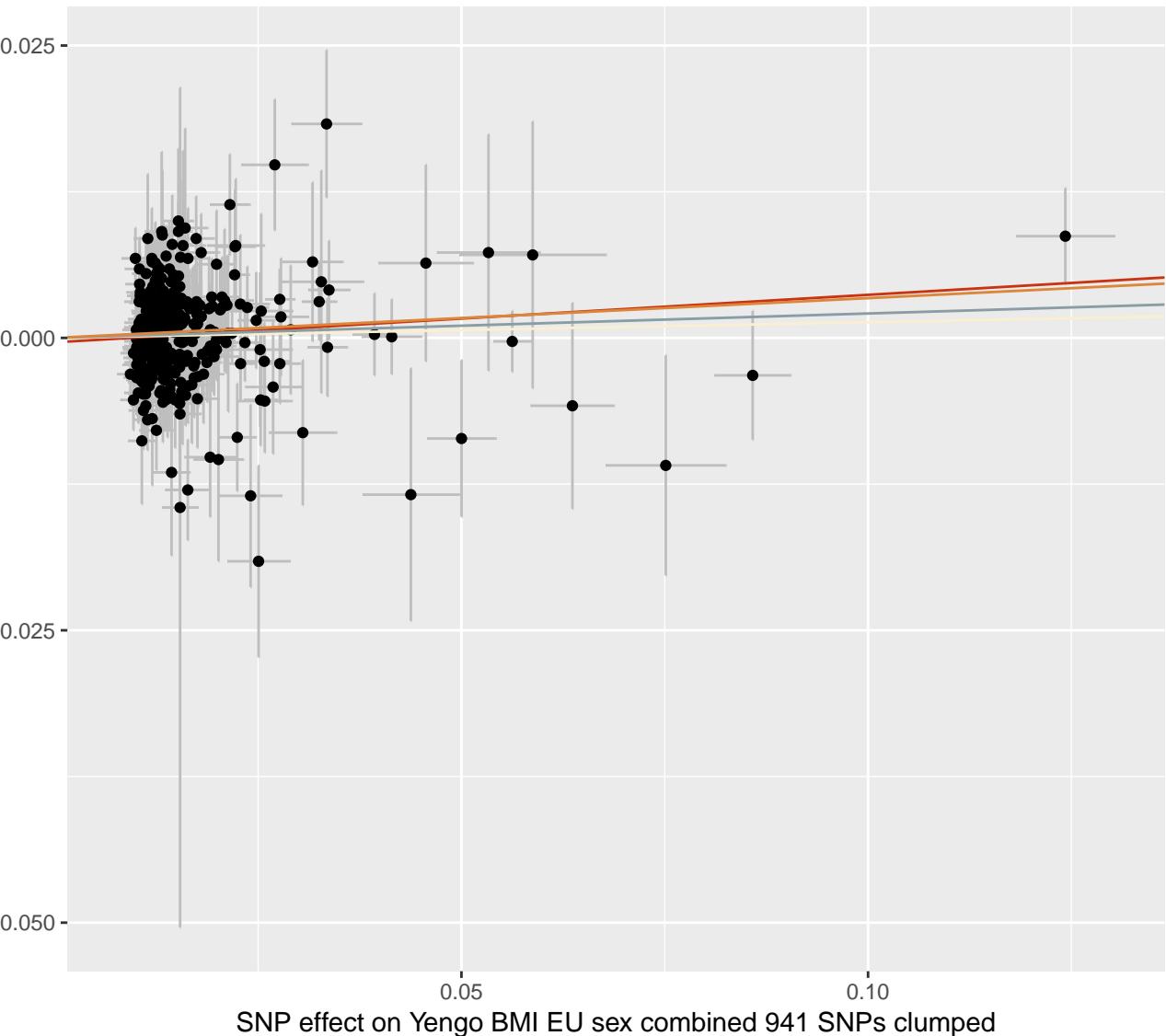


Weighted median



Weighted mode

SNP effect on X-11818 || id:547



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

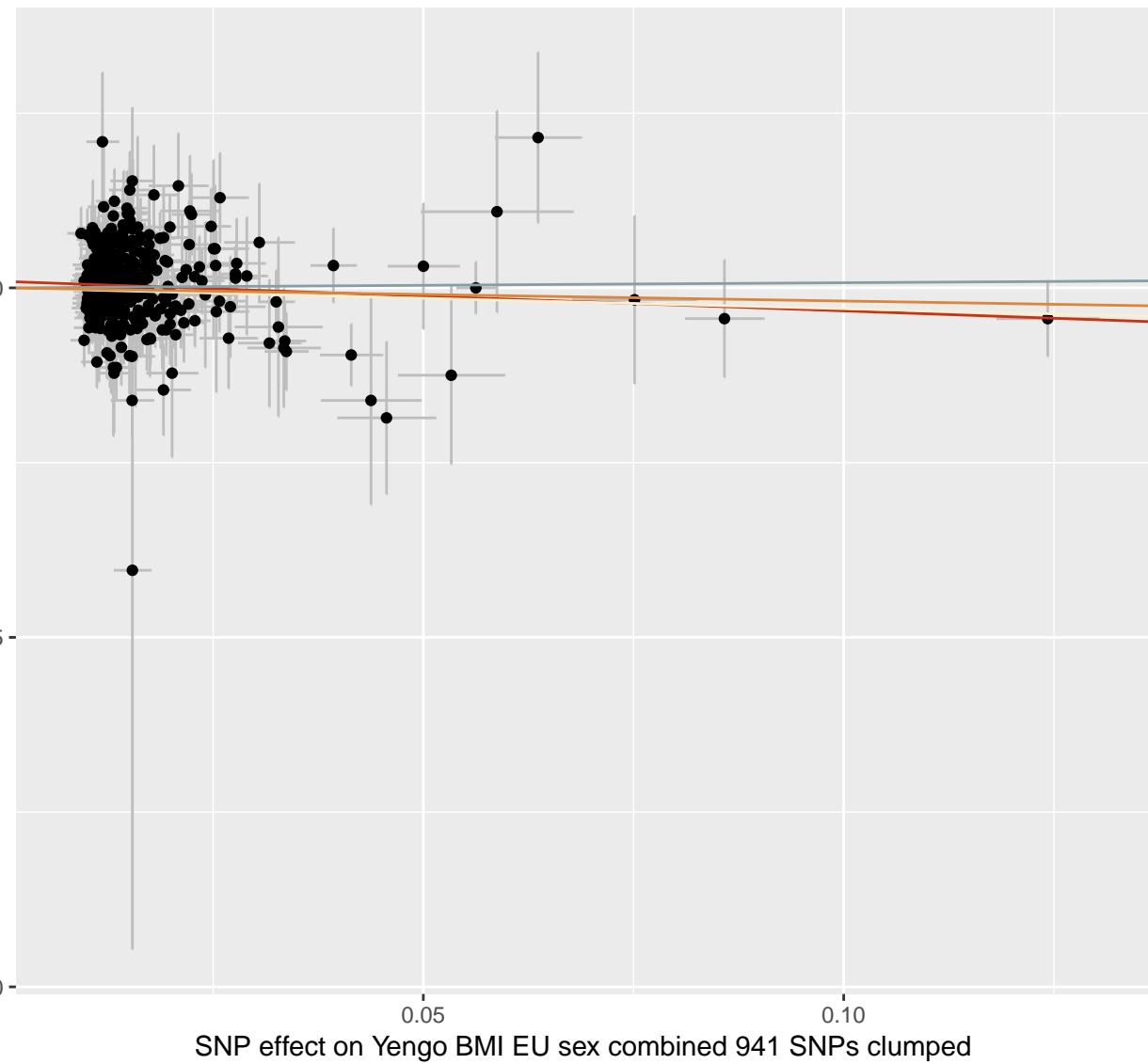


Weighted median



Weighted mode

SNP effect on X-11820 || id:548



### MR Test



Inverse variance weighted (multiplicative random effects)



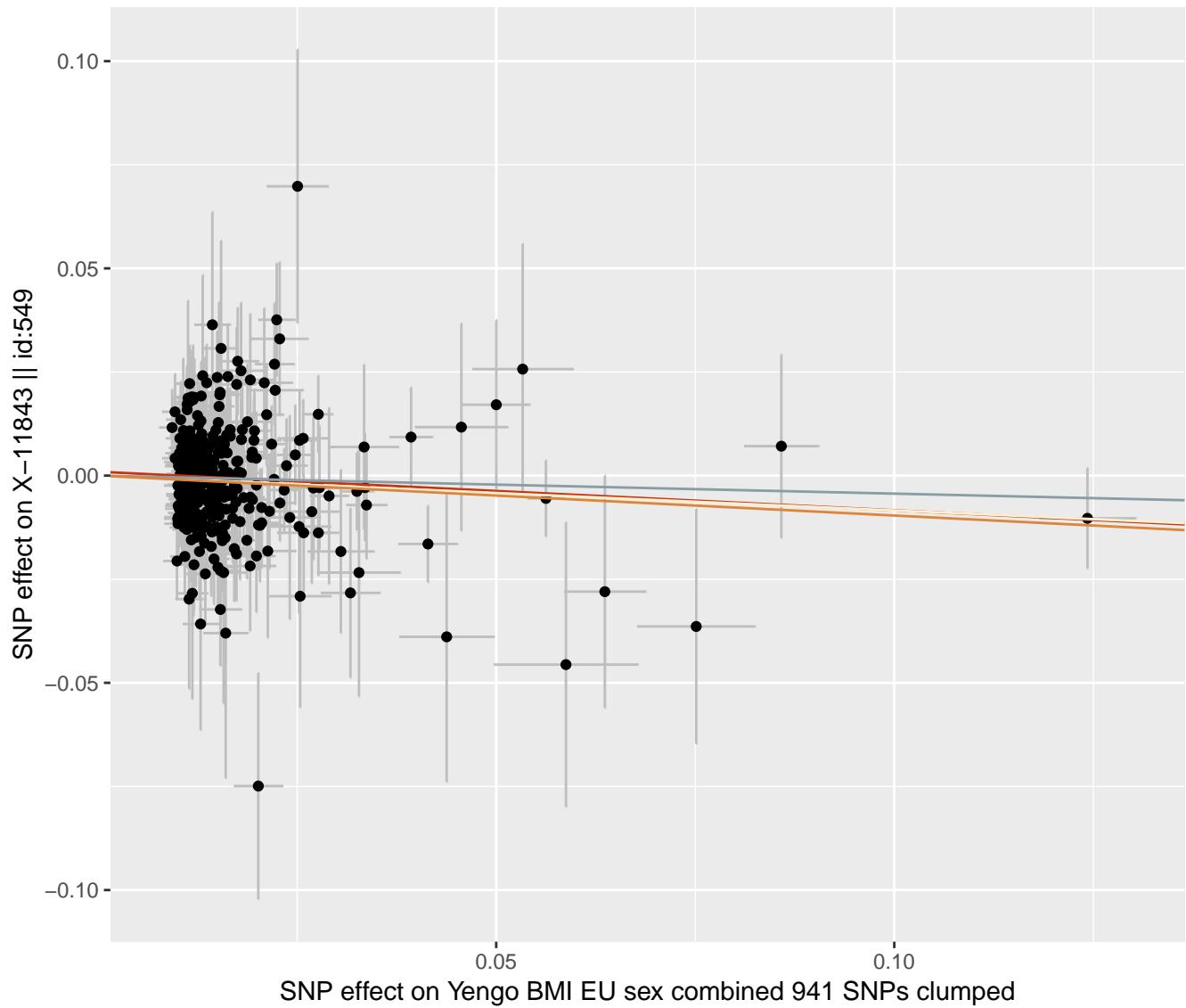
MR Egger



Weighted median



Weighted mode



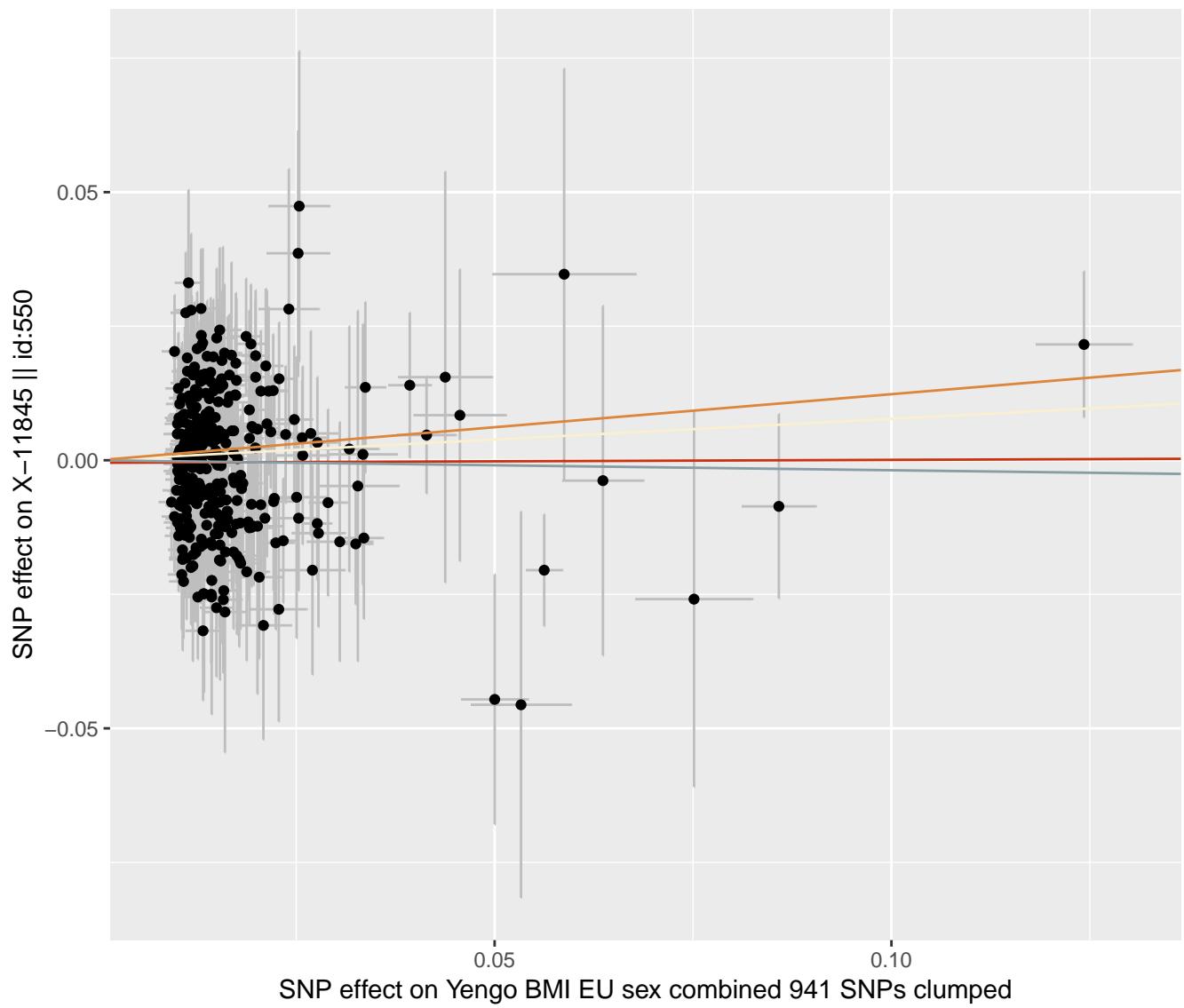
### MR Test

 Inverse variance weighted (multiplicative random effects)

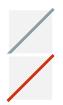
 MR Egger

 Weighted median

 Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



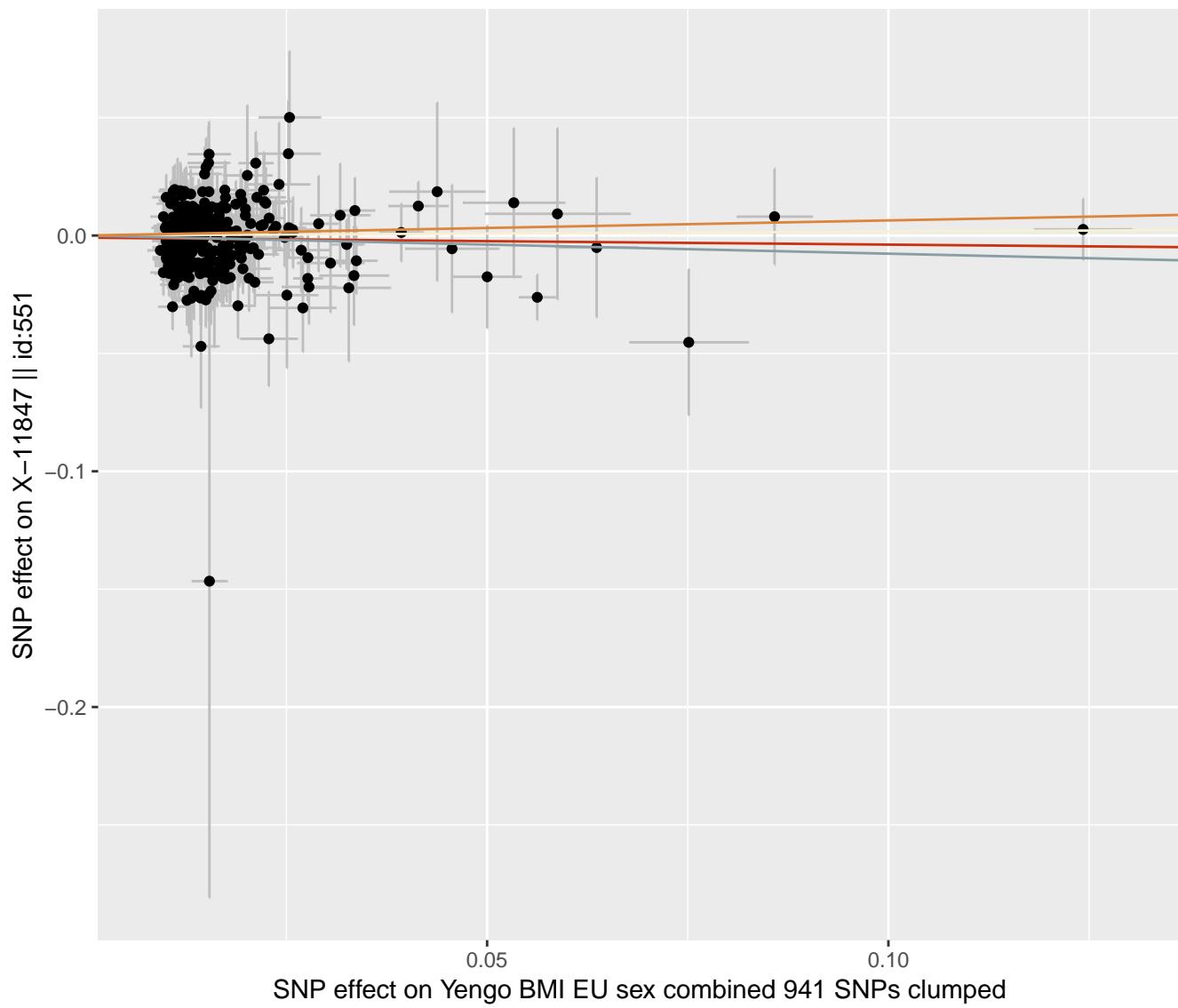
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



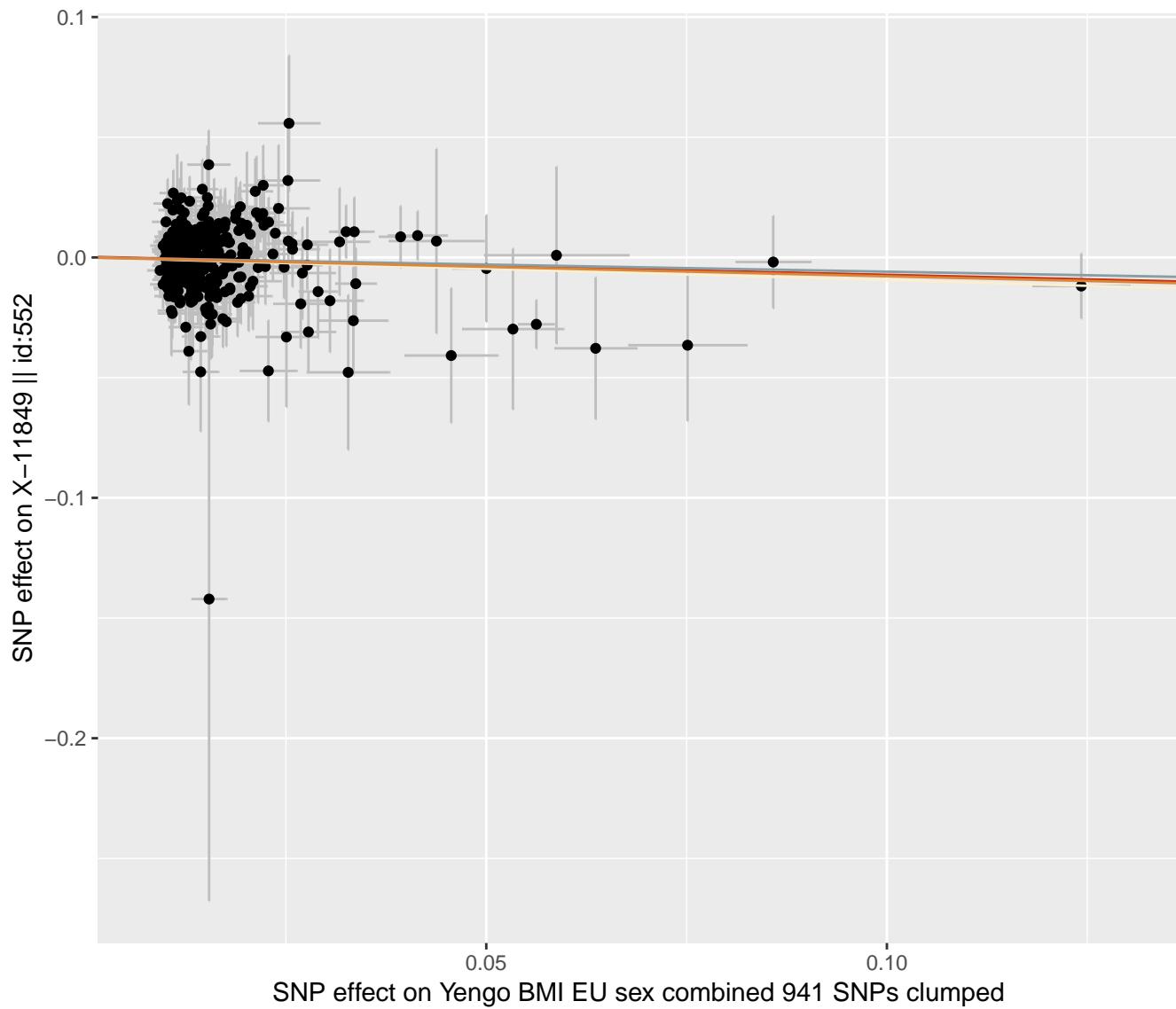
MR Egger



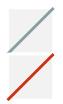
Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



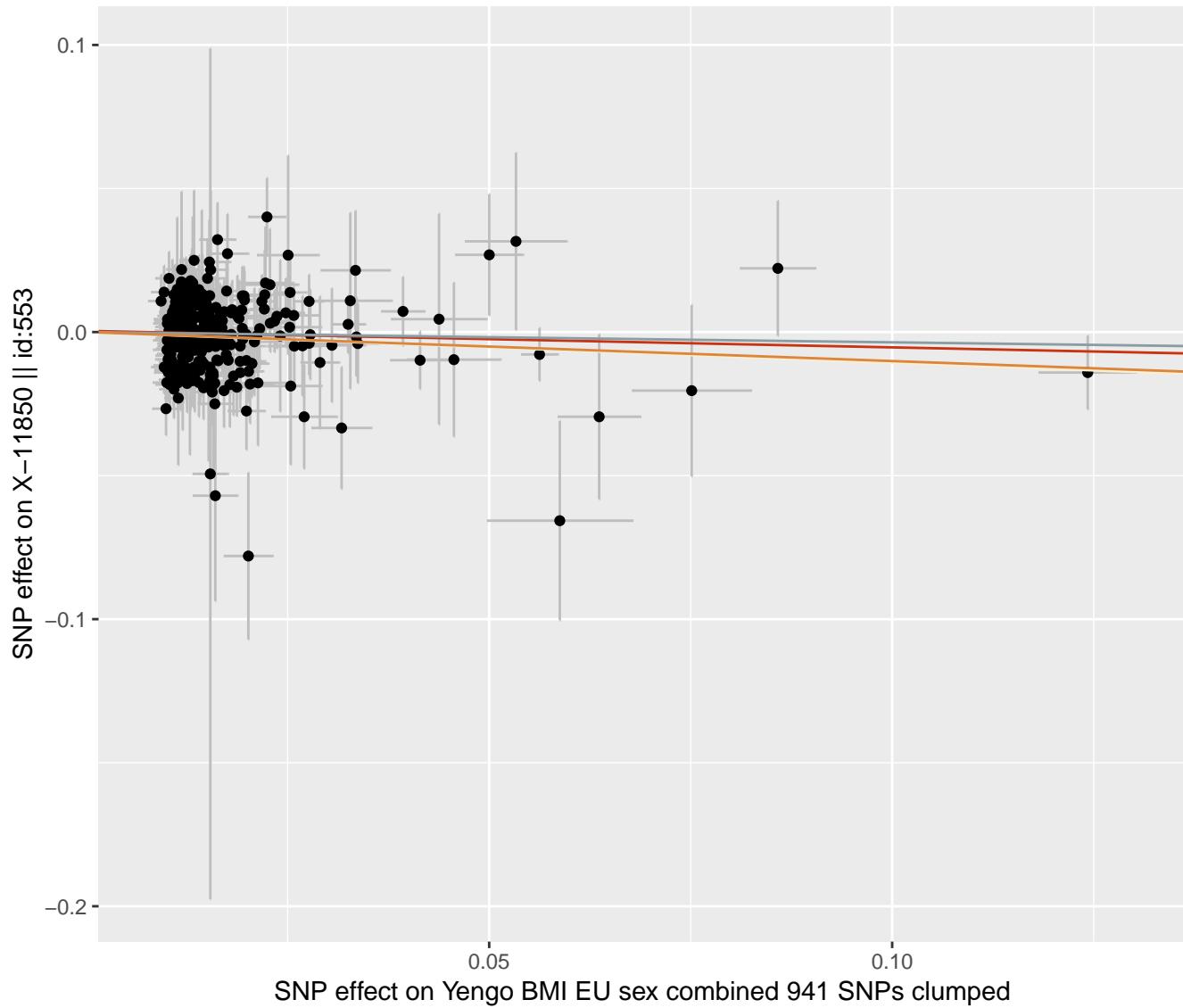
MR Egger



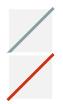
Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



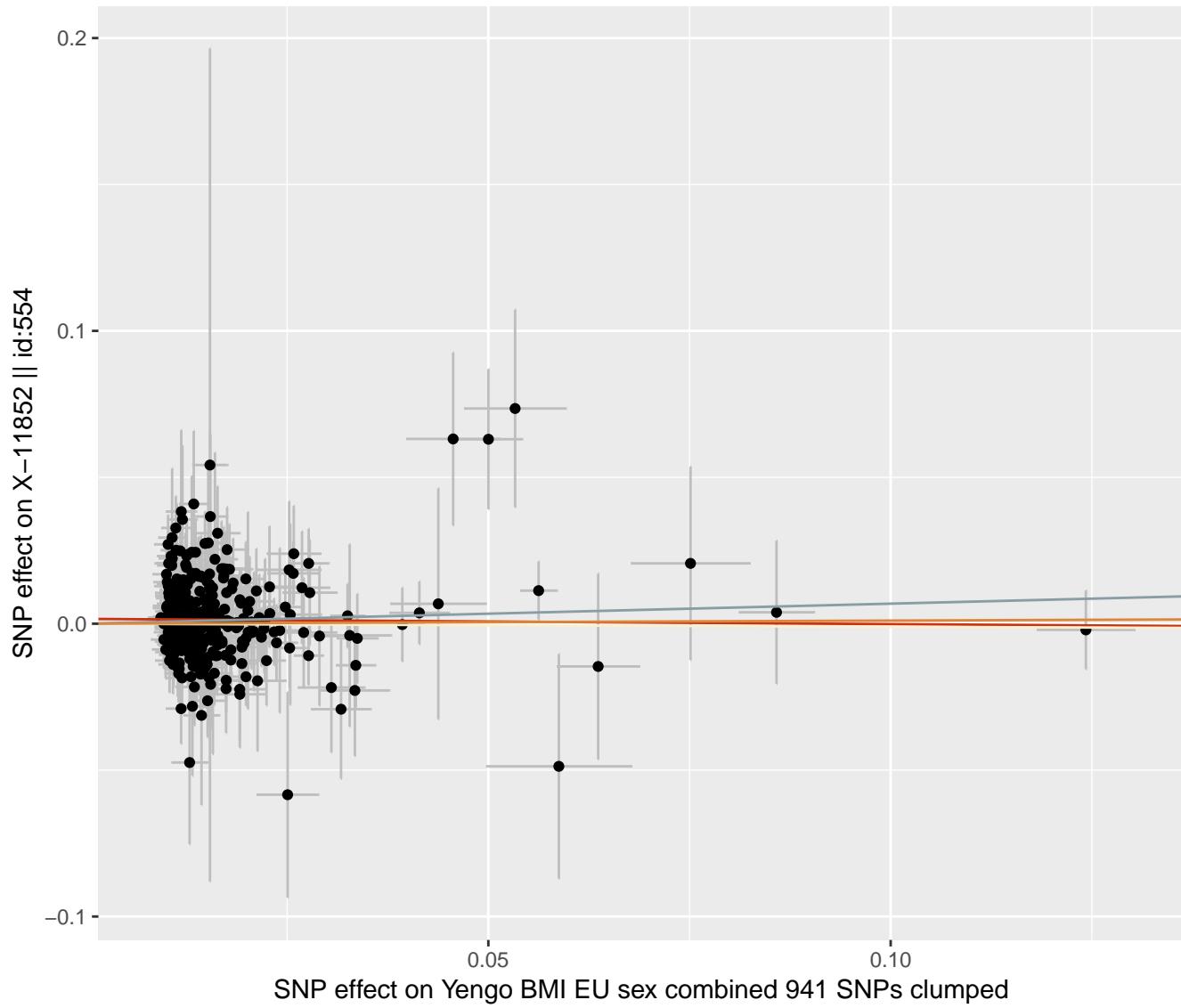
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



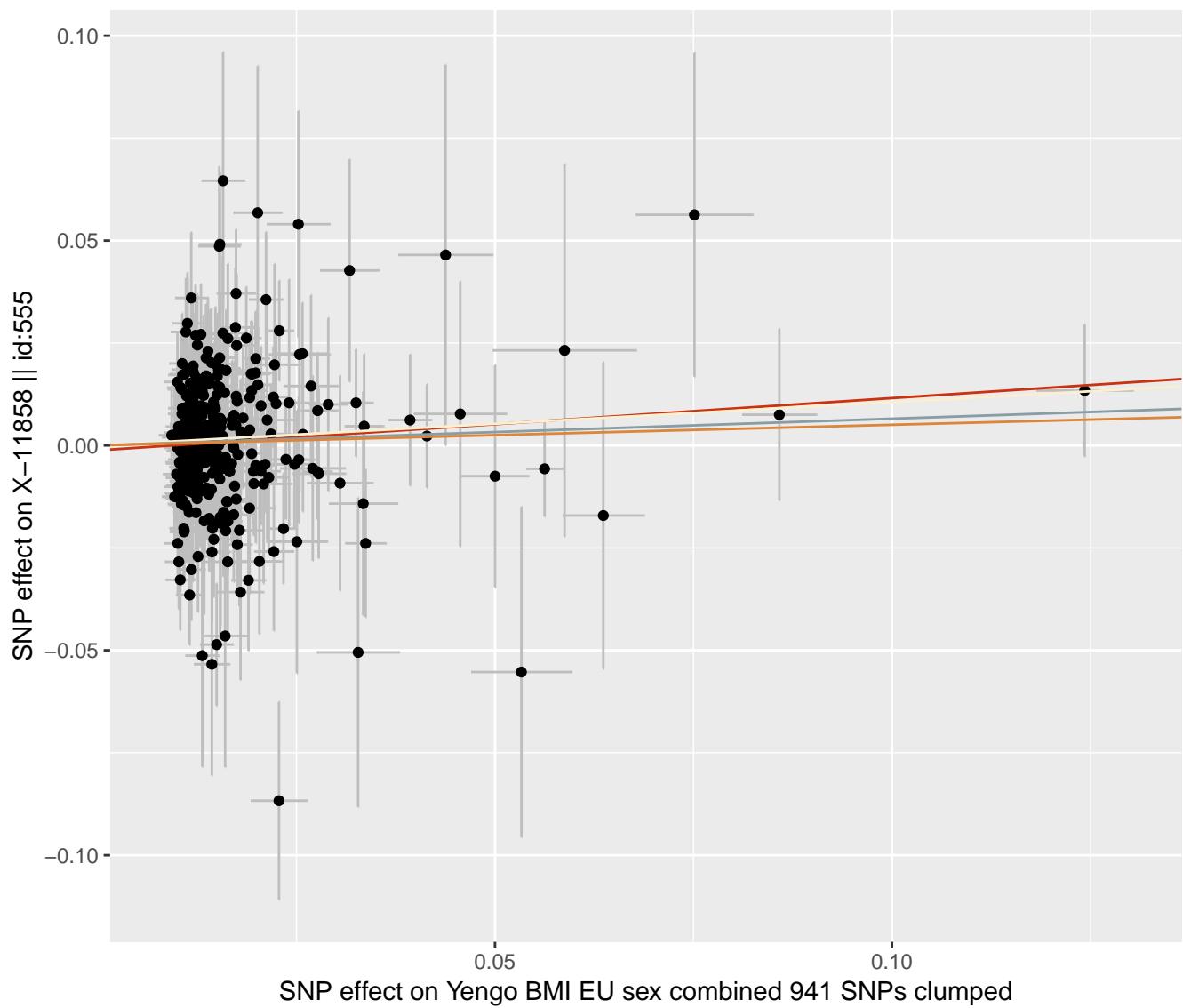
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

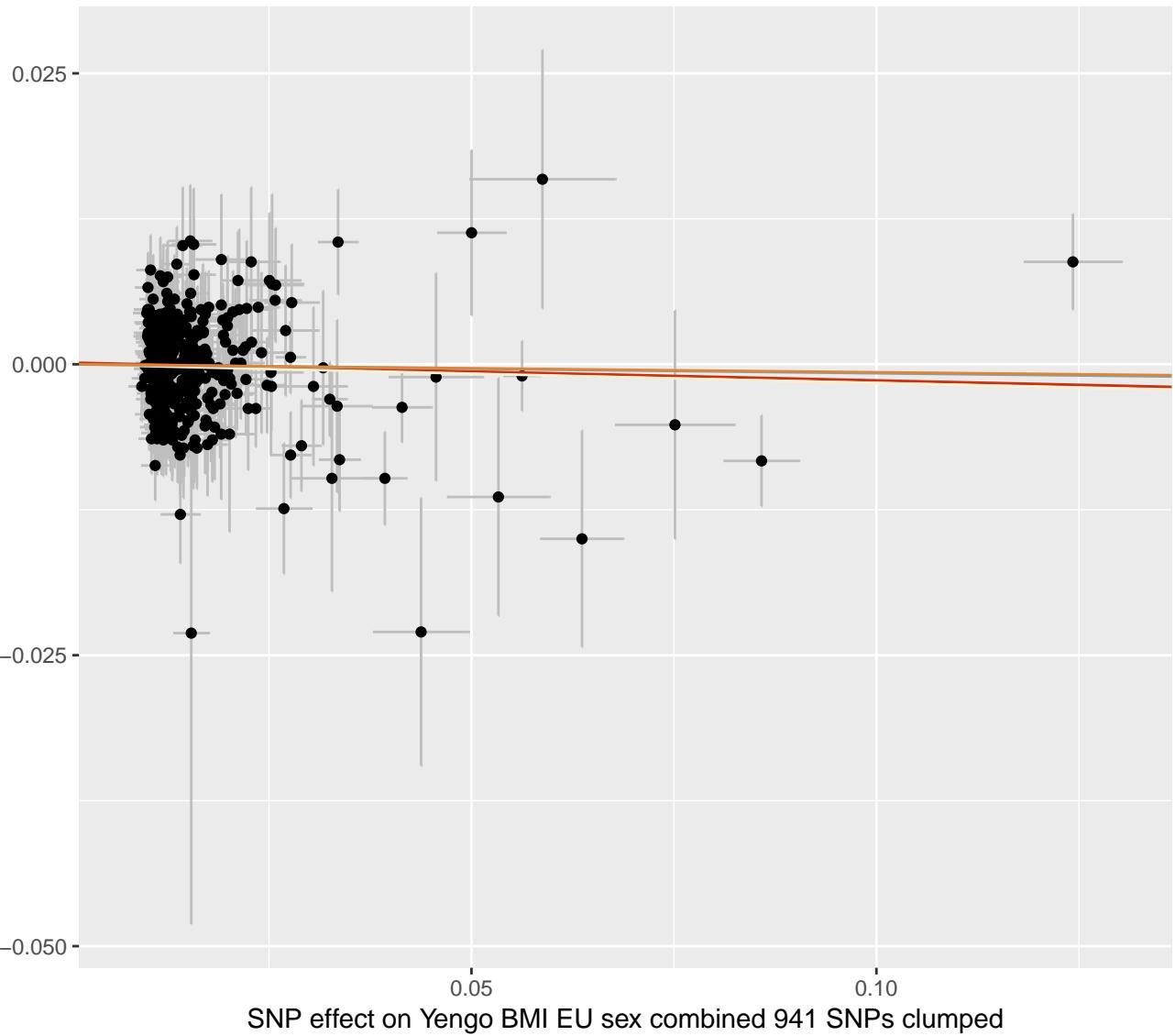


Weighted median



Weighted mode

SNP effect on X-11859 || id:556



## MR Test



Inverse variance weighted (multiplicative random effects)



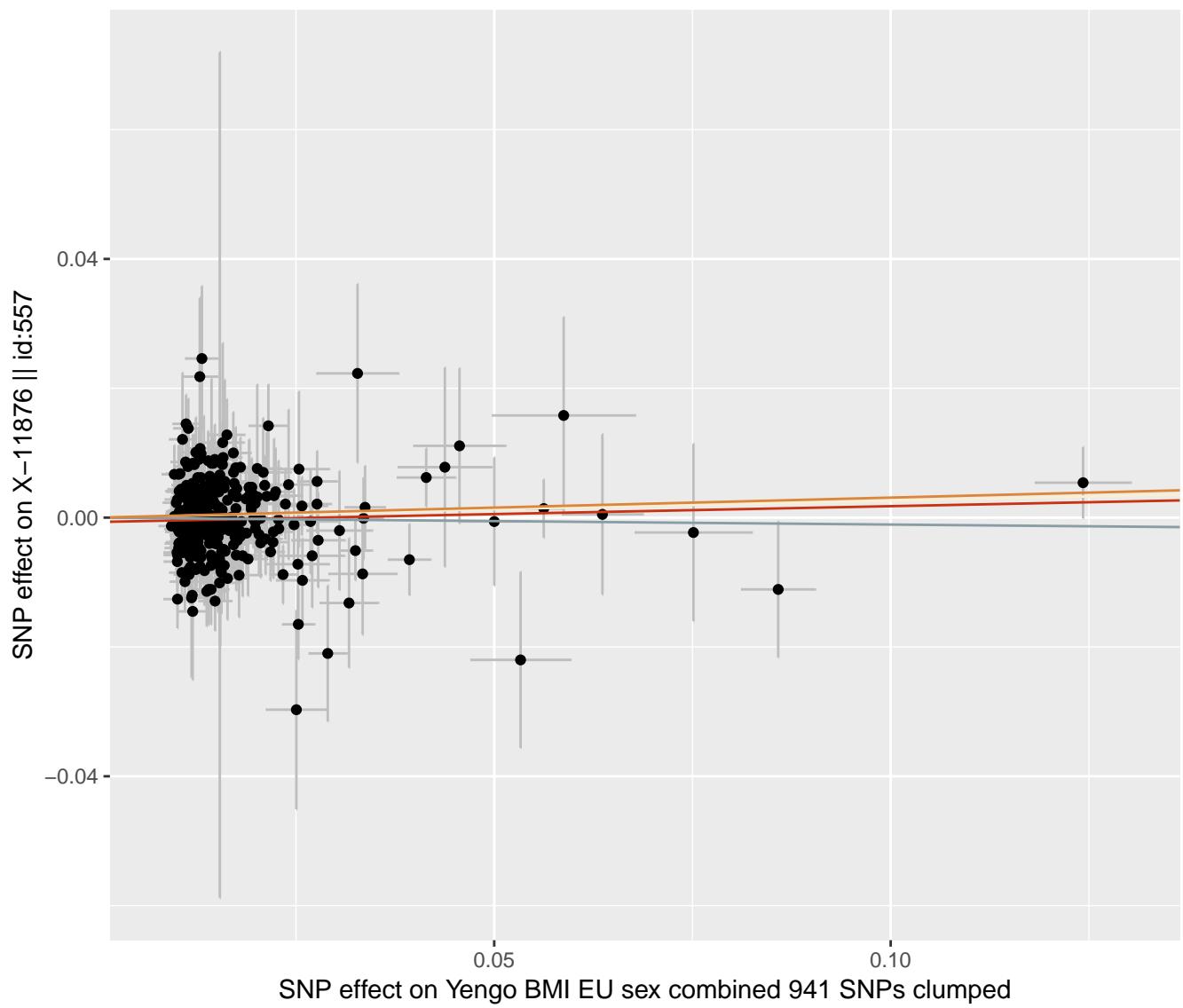
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

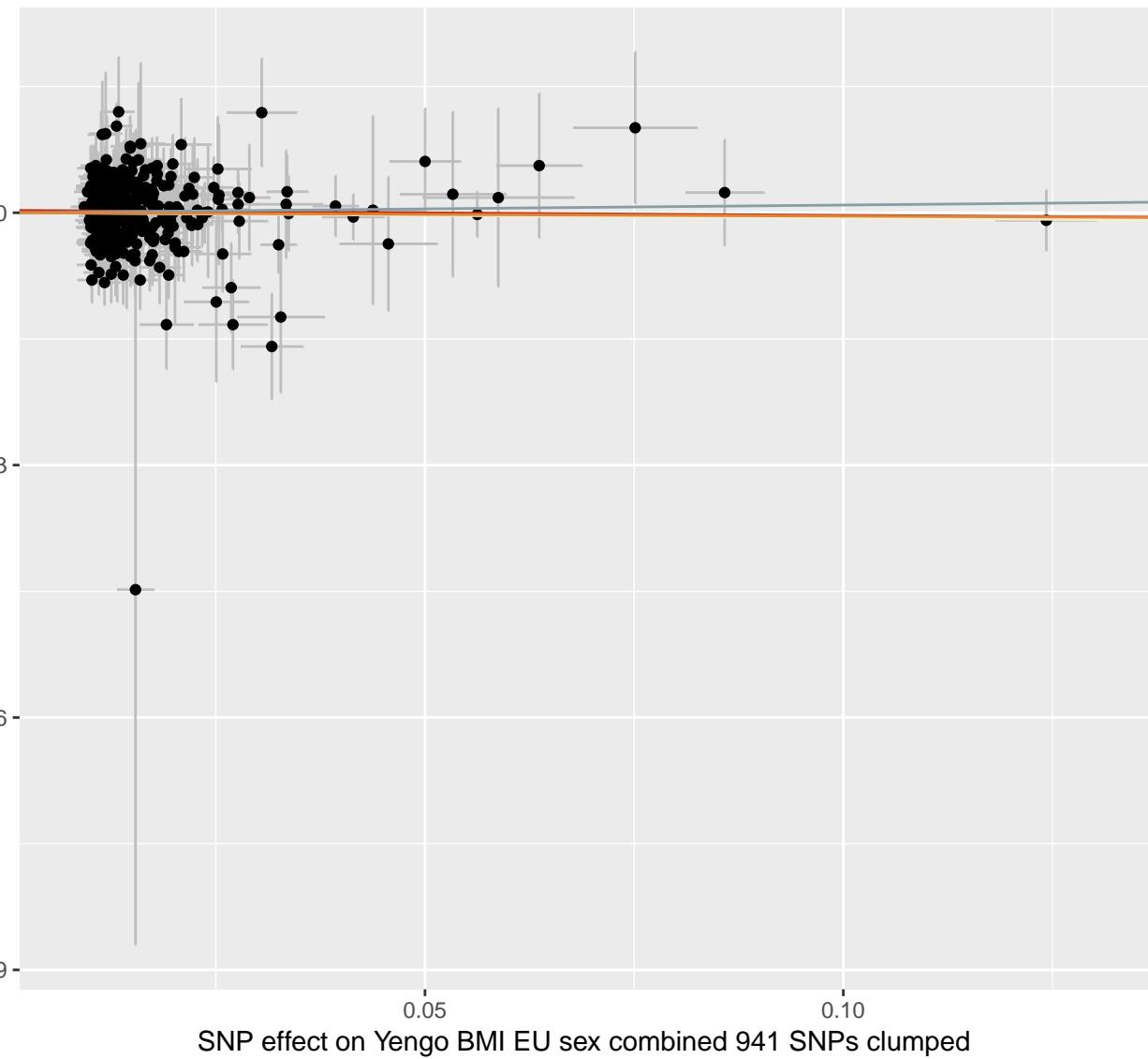


Weighted median



Weighted mode

SNP effect on 1-arachidonoylglycerophosphocholine\* || id:558



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

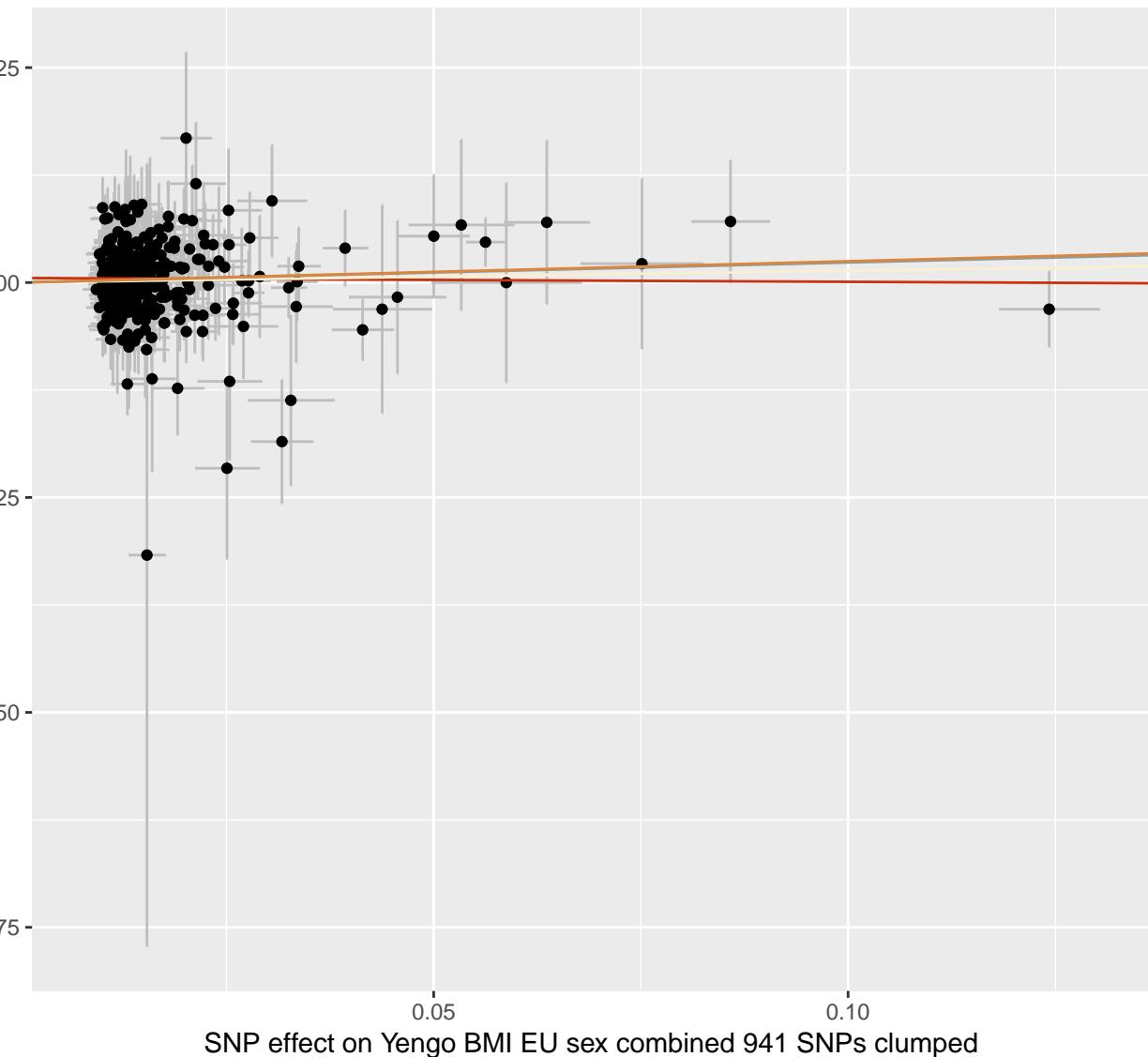


Weighted median



Weighted mode

SNP effect on 1-palmitoleylglycerophosphocholine\* || id:559



### MR Test



Inverse variance weighted (multiplicative random effects)



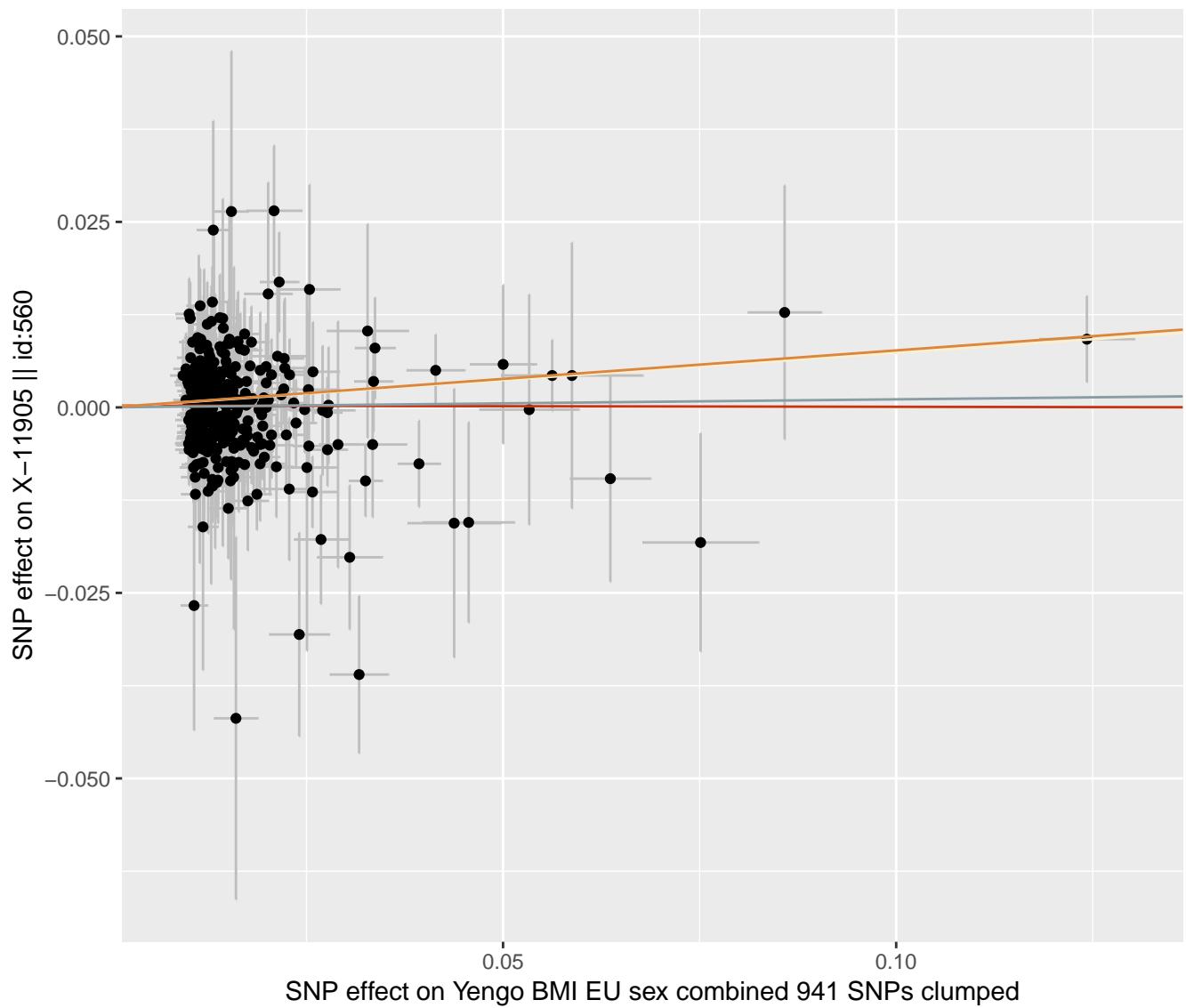
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

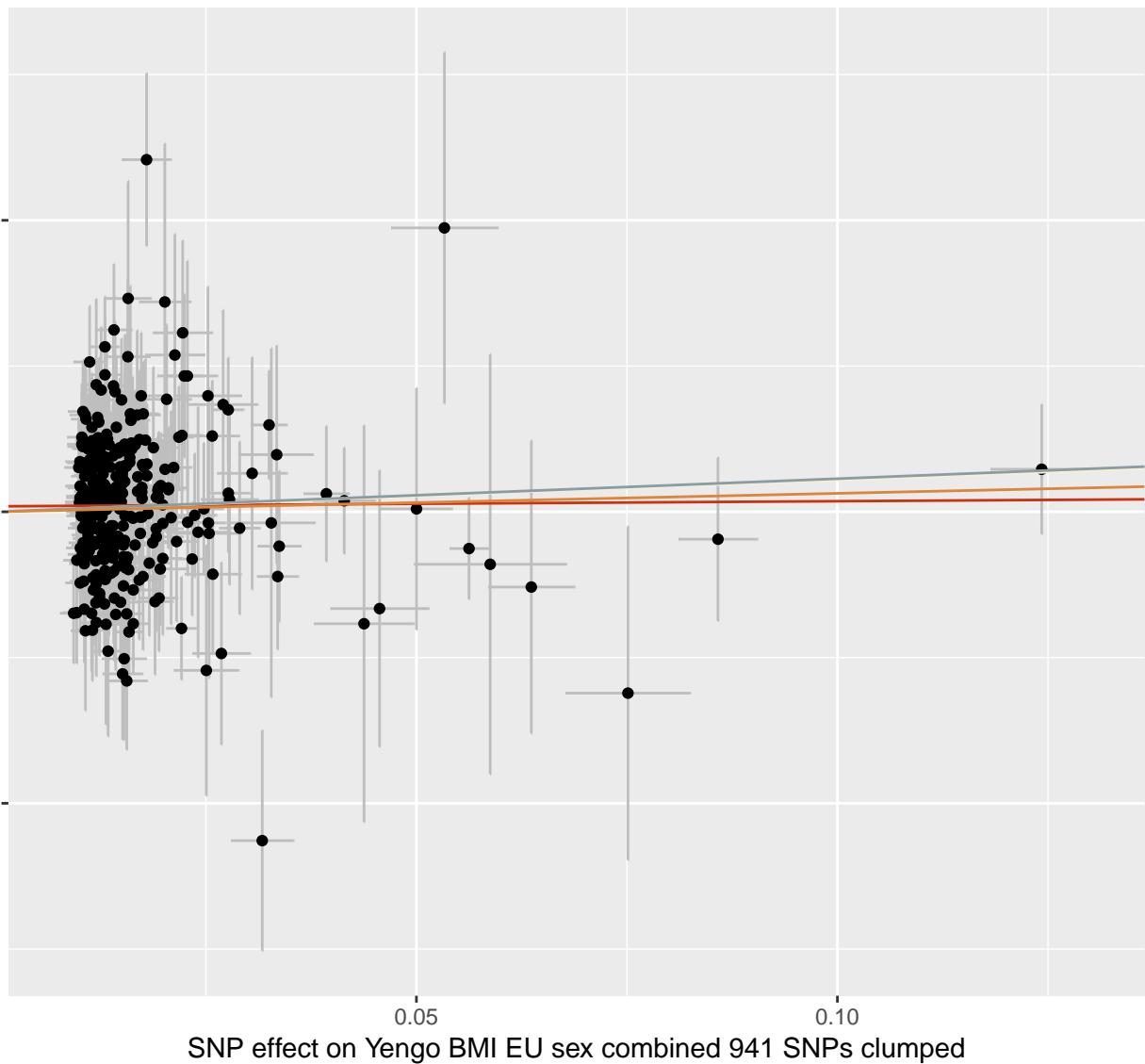


Weighted median



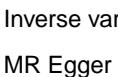
Weighted mode

SNP effect on X-12007 || id:561



### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode

SNP effect on X-12013 || id:562

0.04  
0.00  
-0.04  
-0.08

0.05 0.10

SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



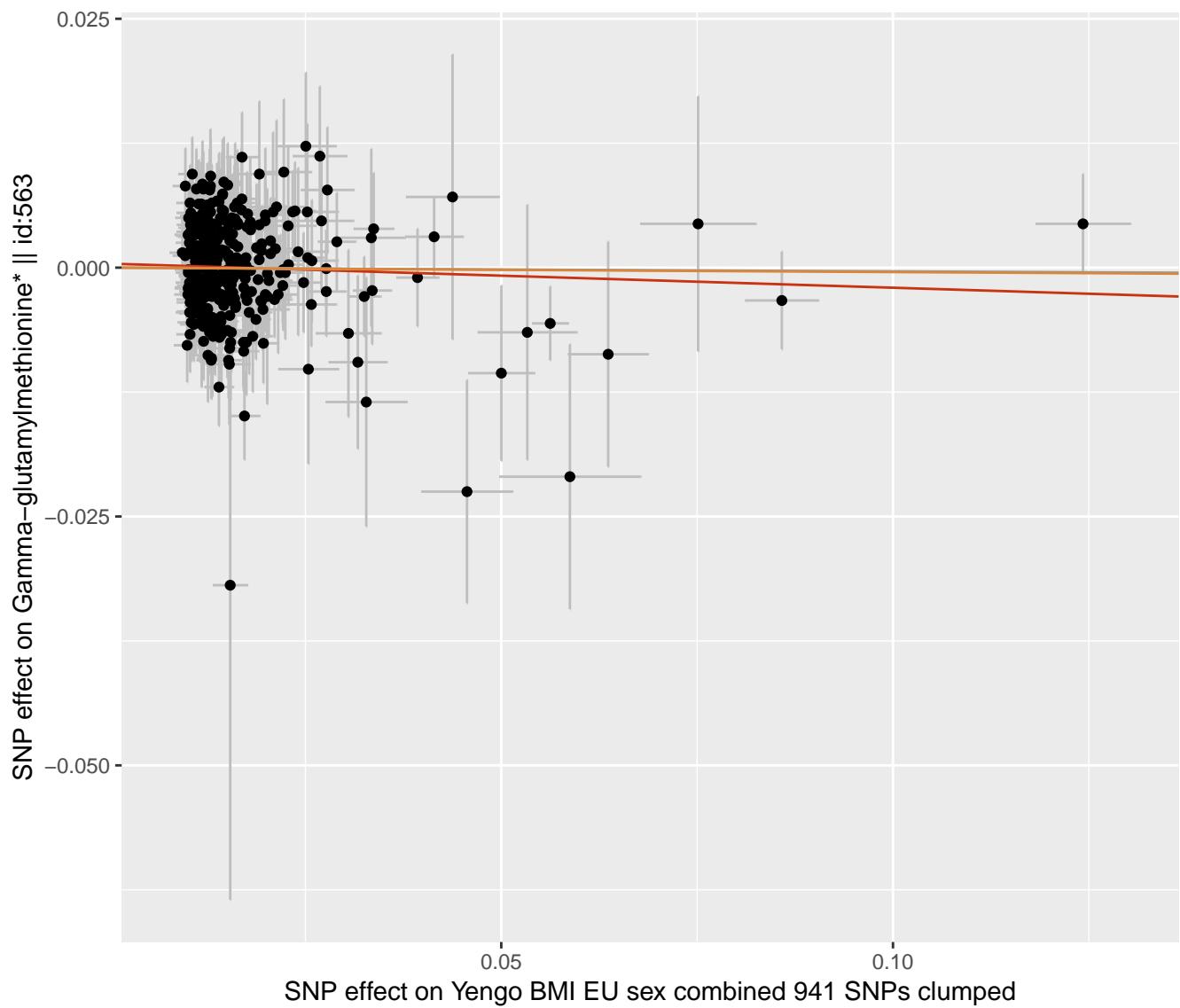
Weighted median



MR Egger



Weighted mode



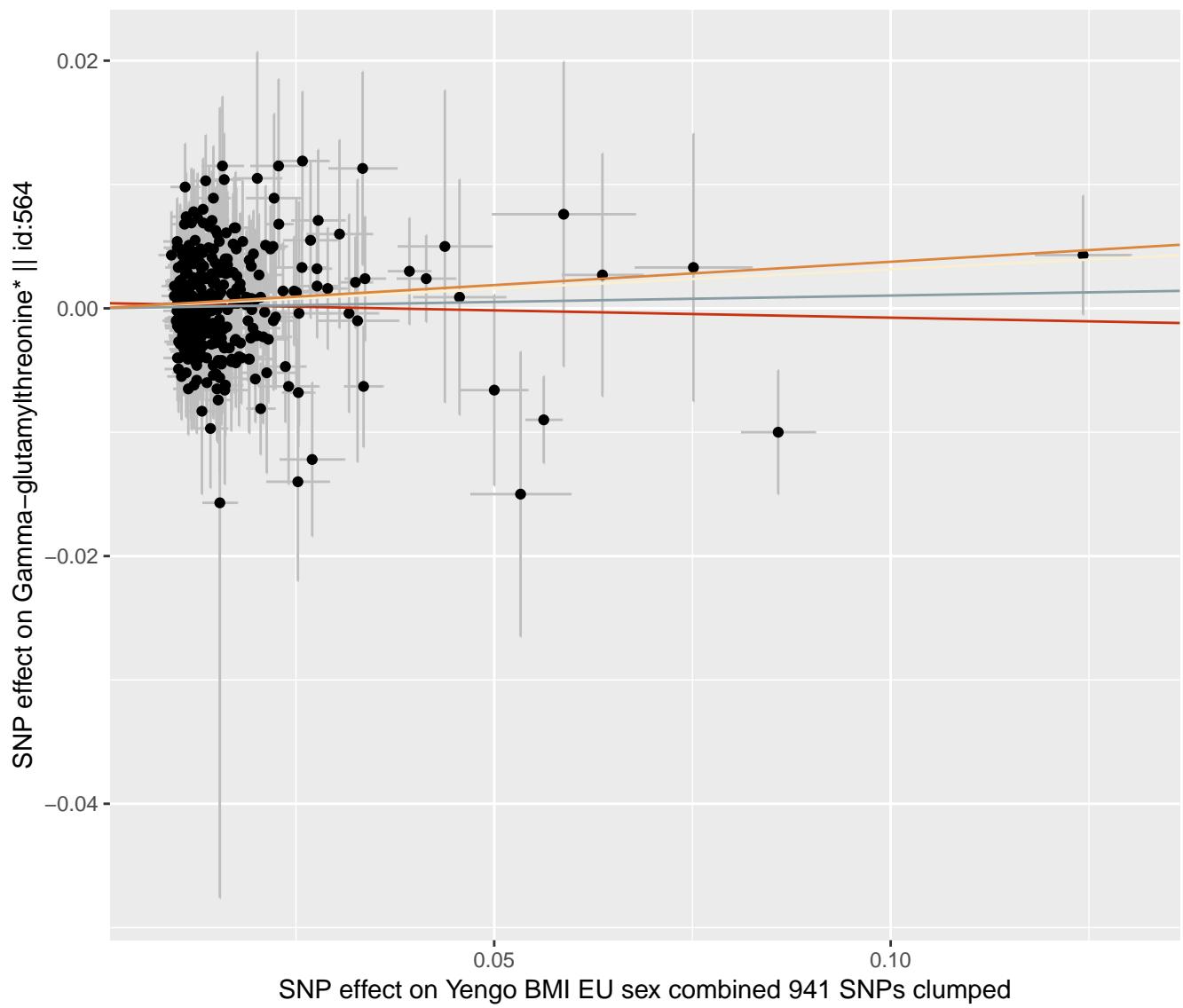
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



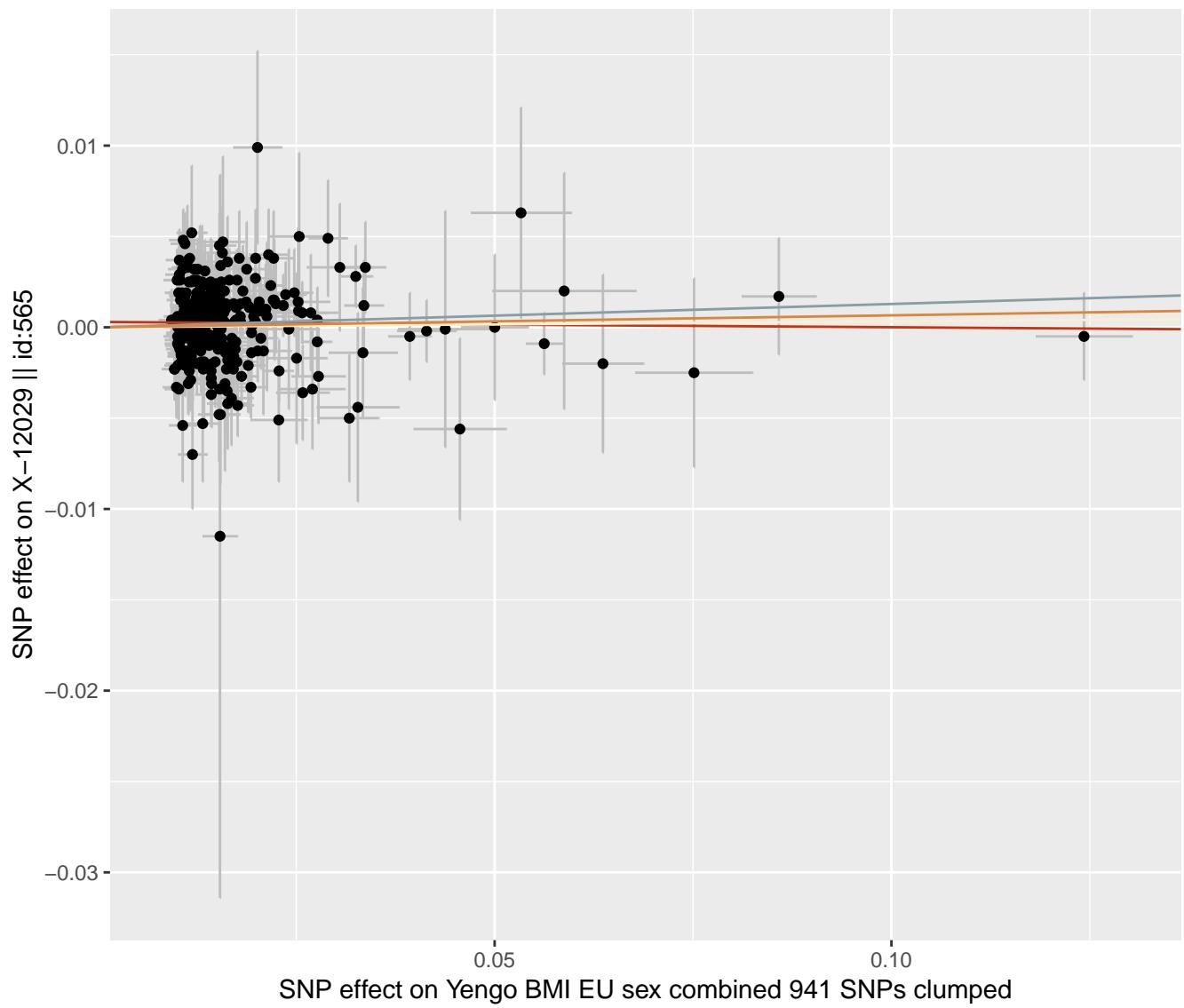
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



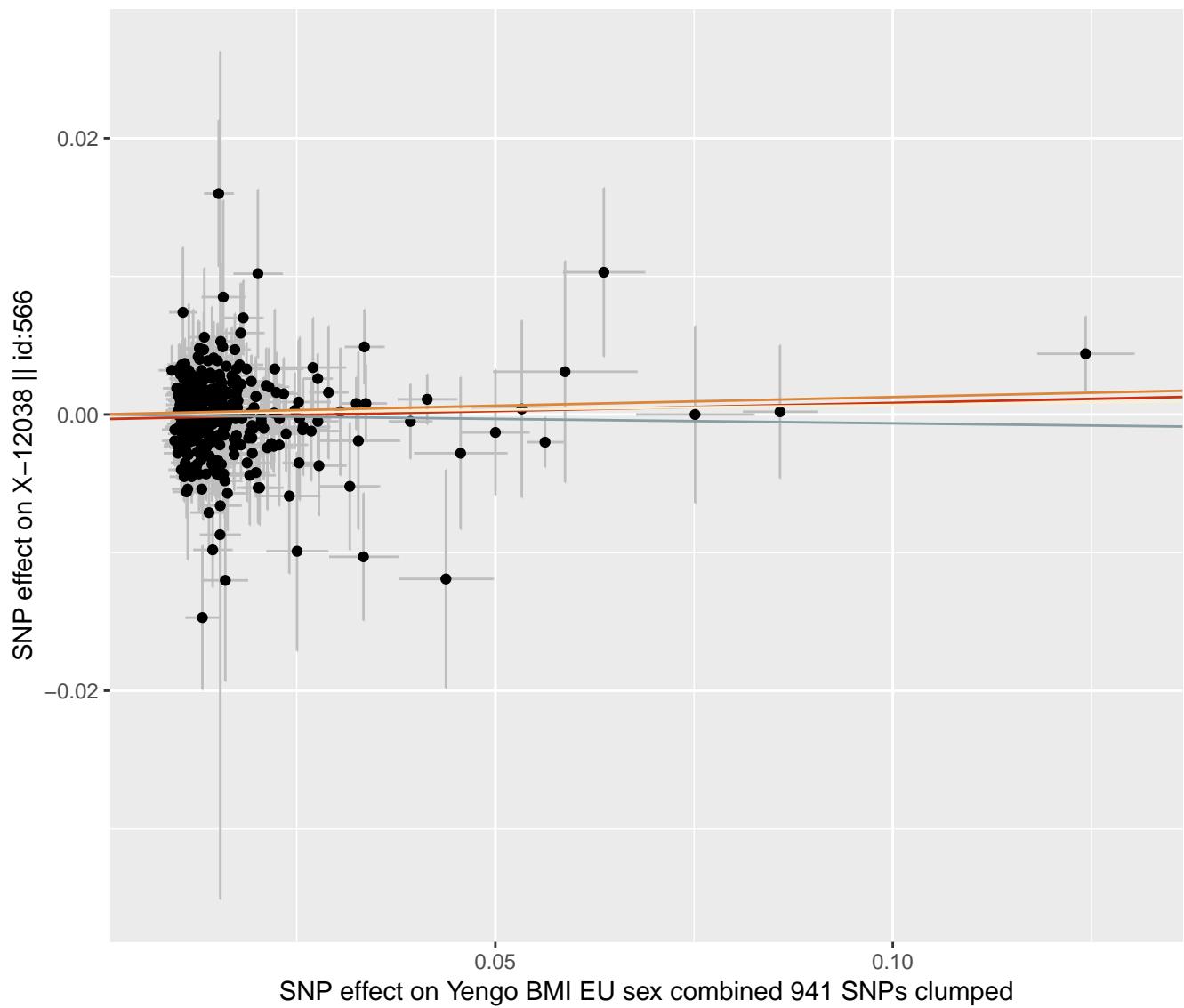
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



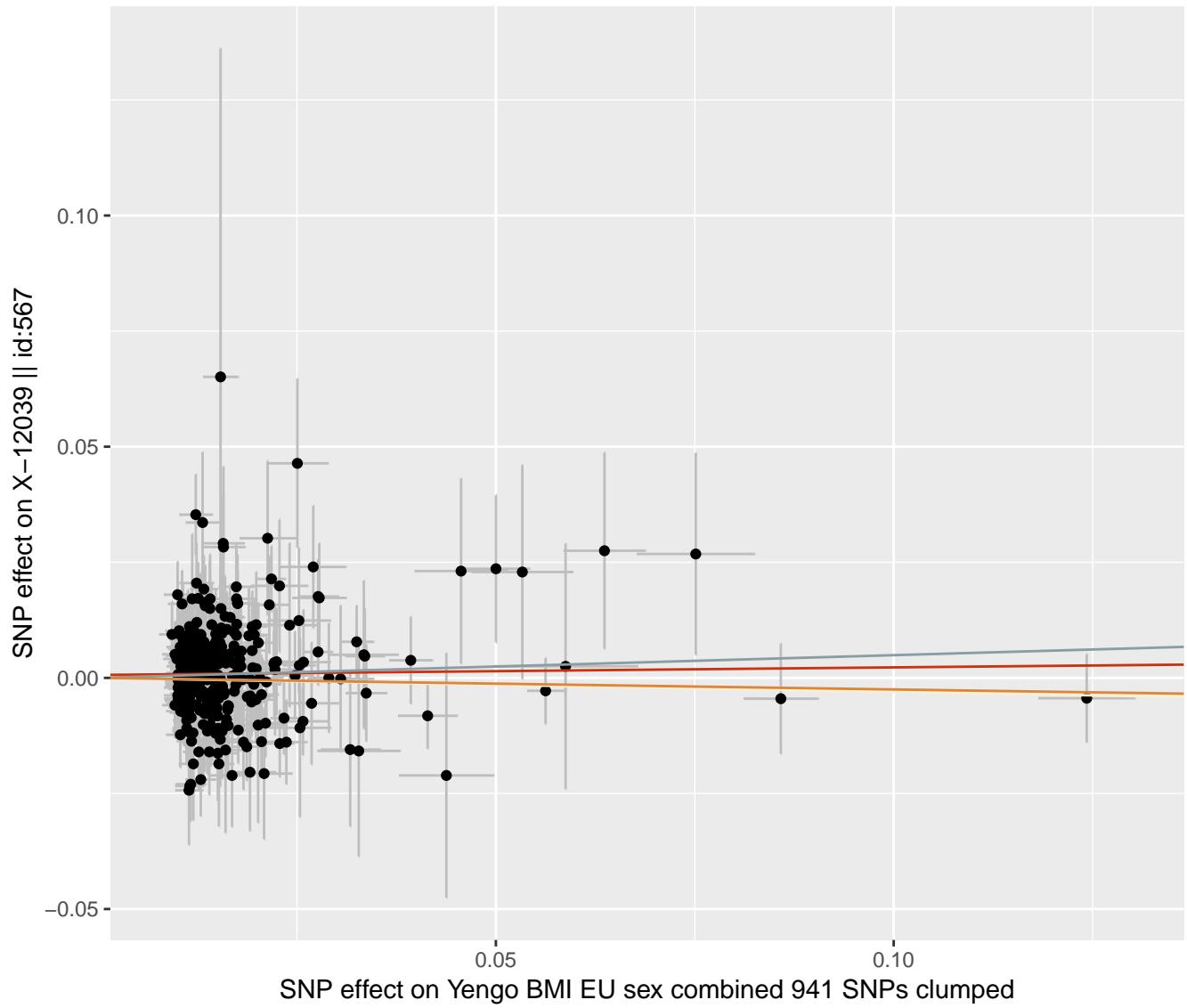
MR Egger



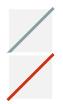
Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



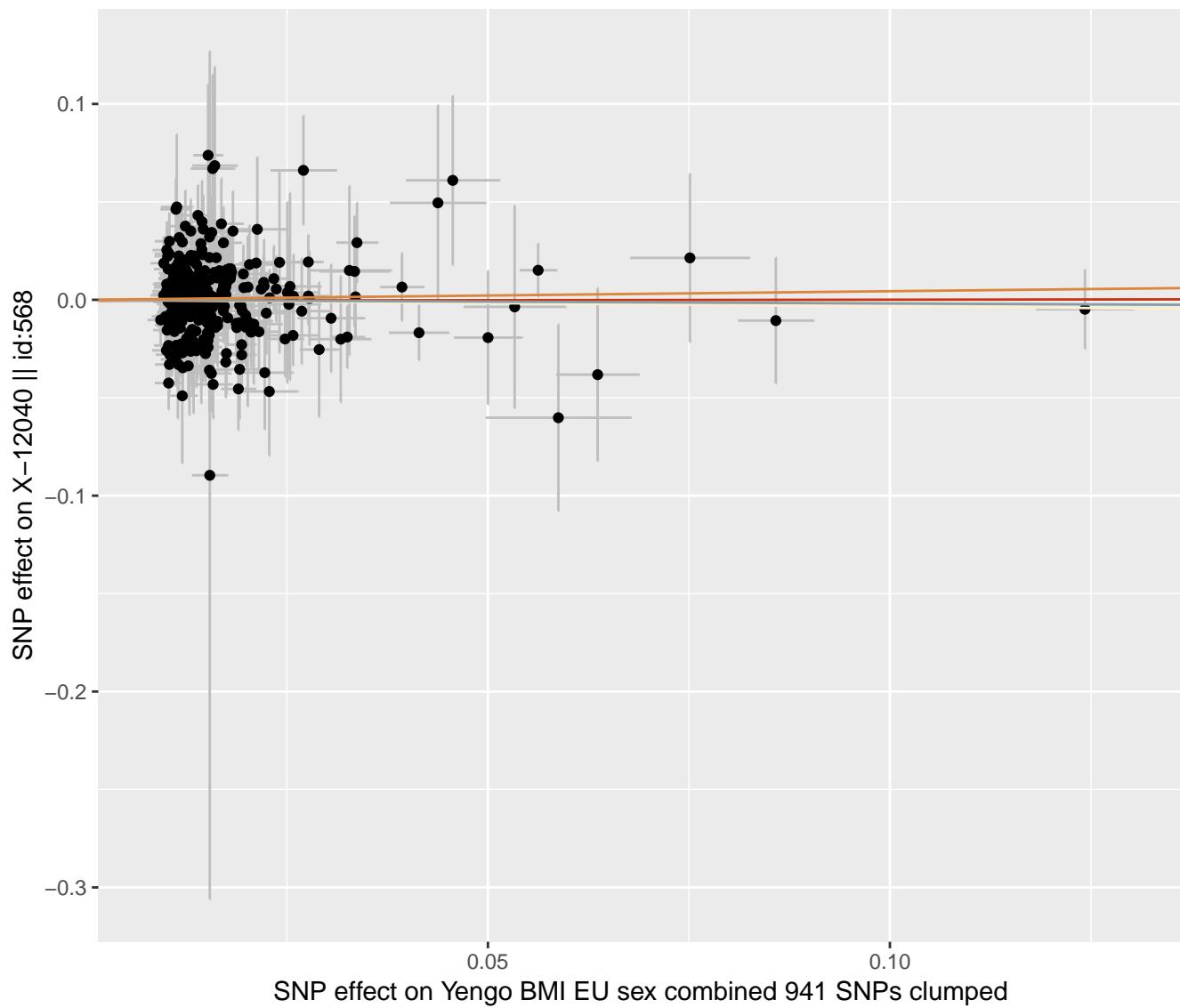
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



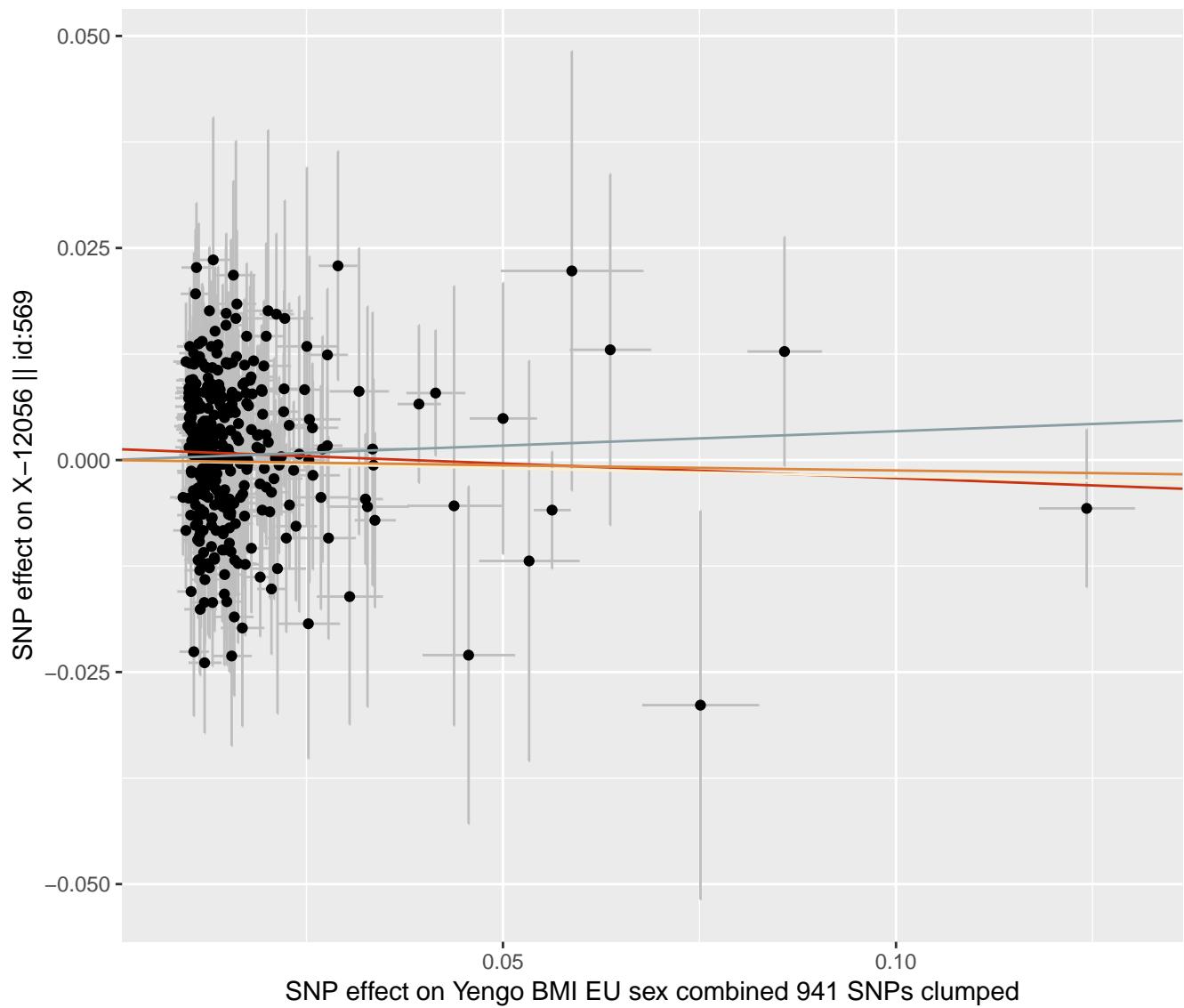
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



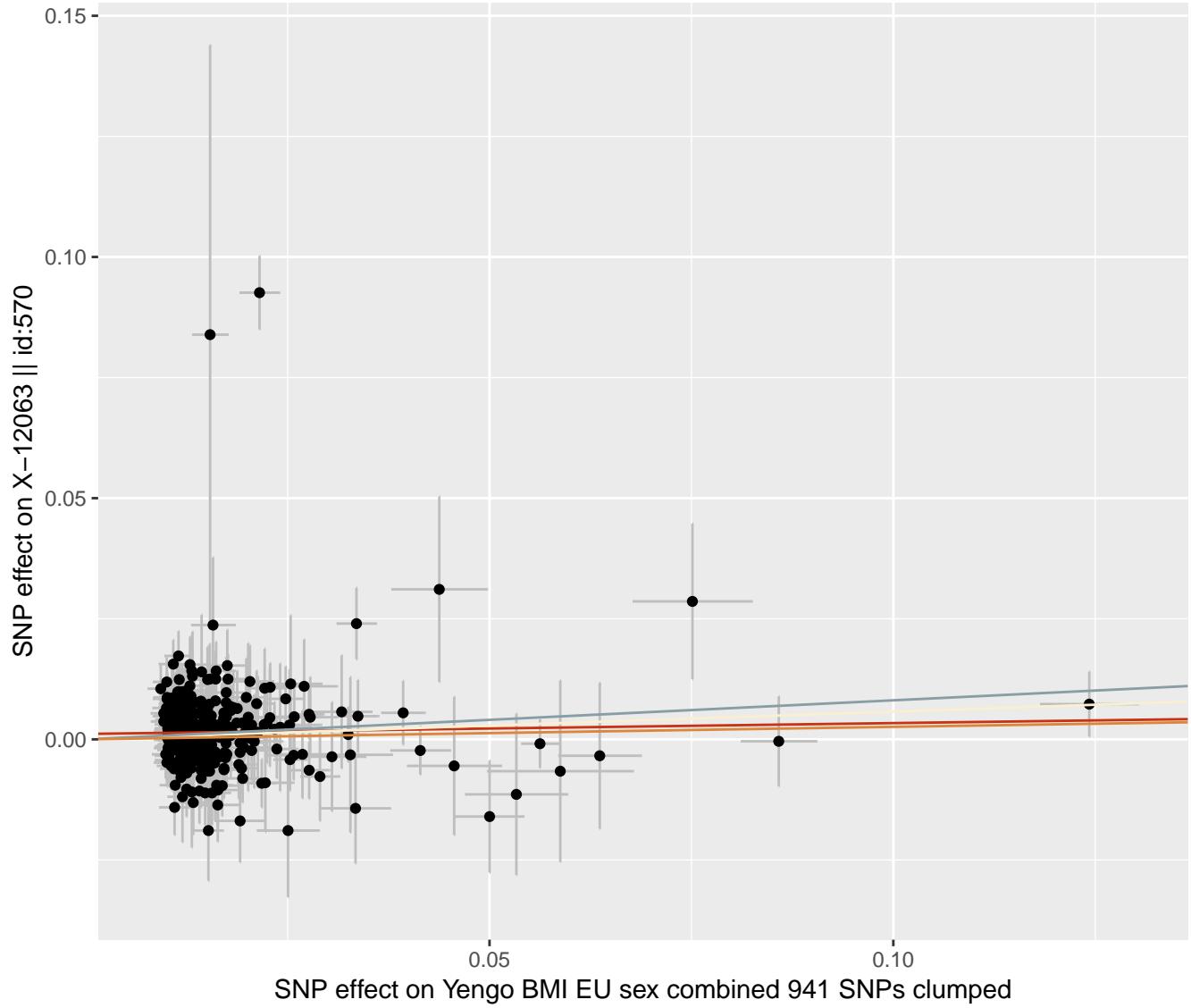
MR Egger



Weighted median



Weighted mode



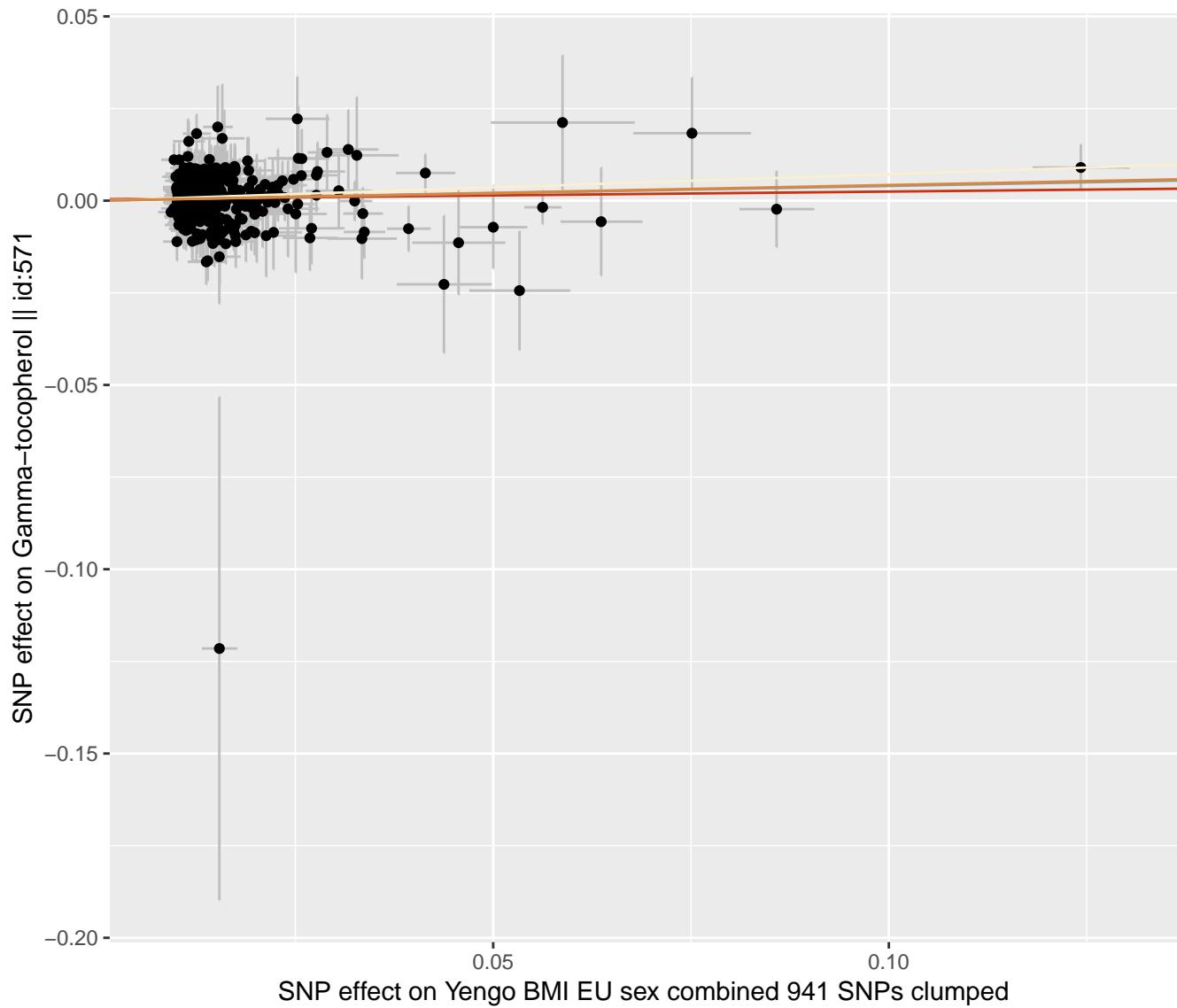
### MR Test

Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



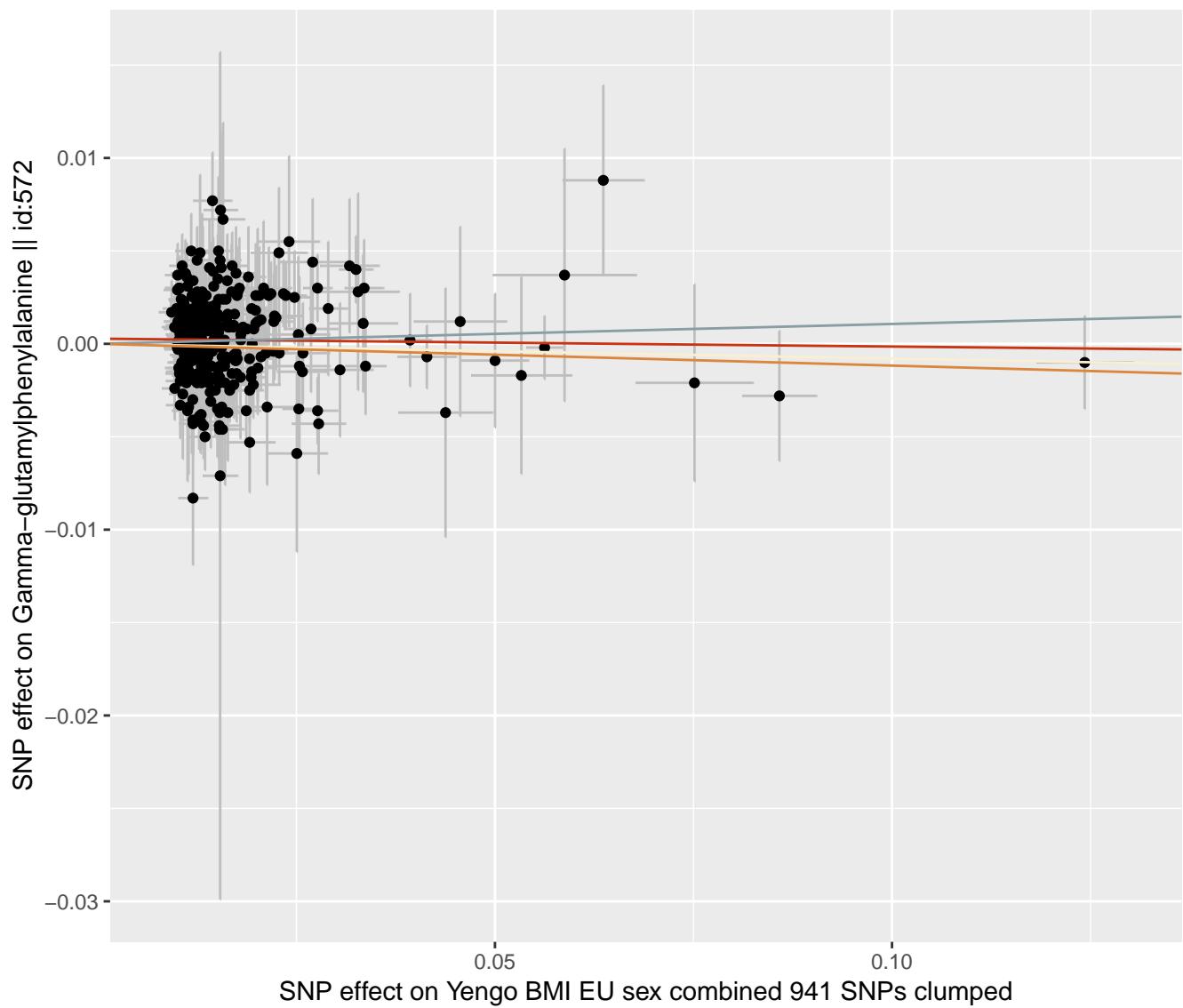
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

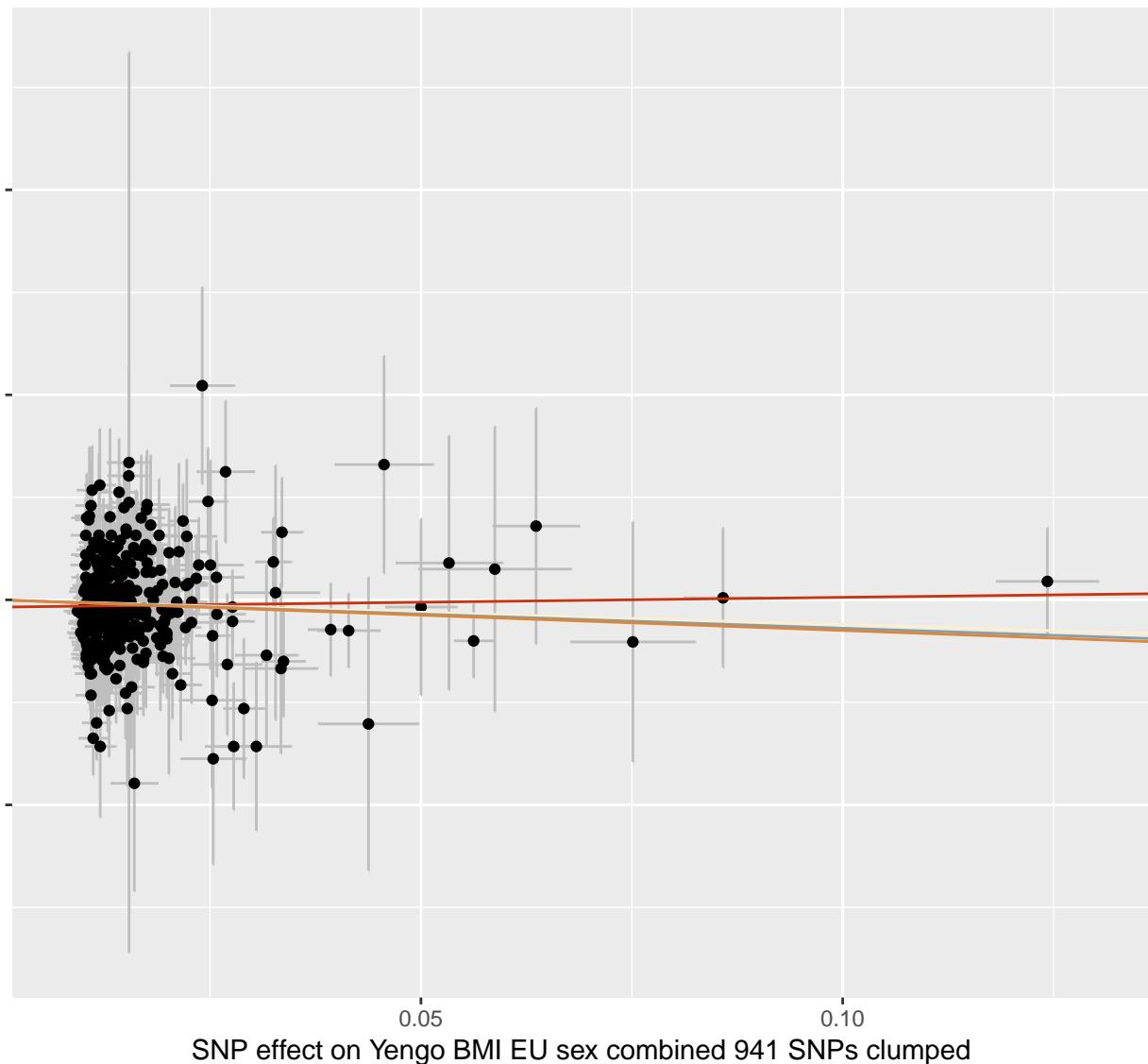


Weighted median



Weighted mode

SNP effect on isobutyrylcarnitine || id:573



## MR Test



Inverse variance weighted (multiplicative random effects)



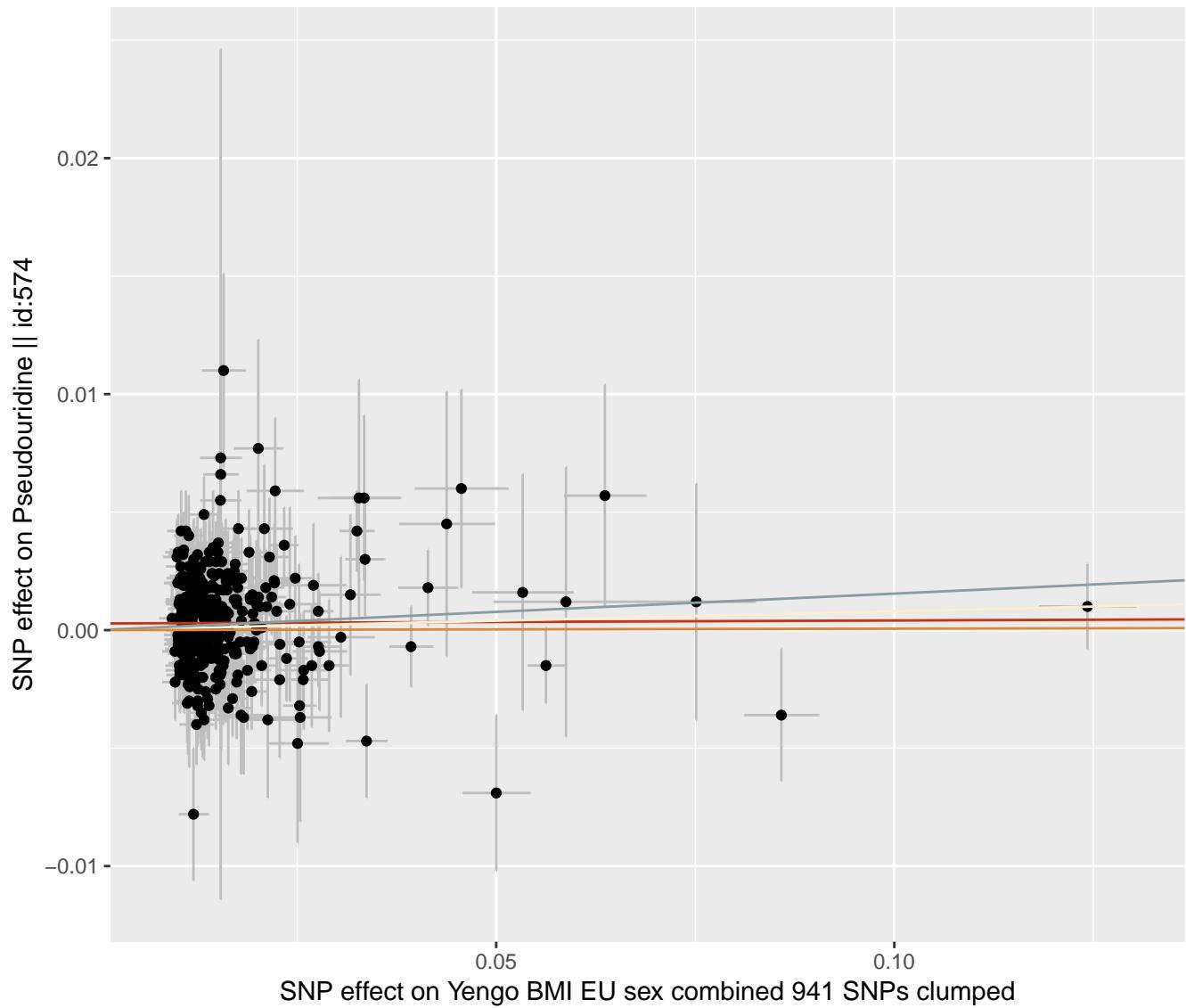
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

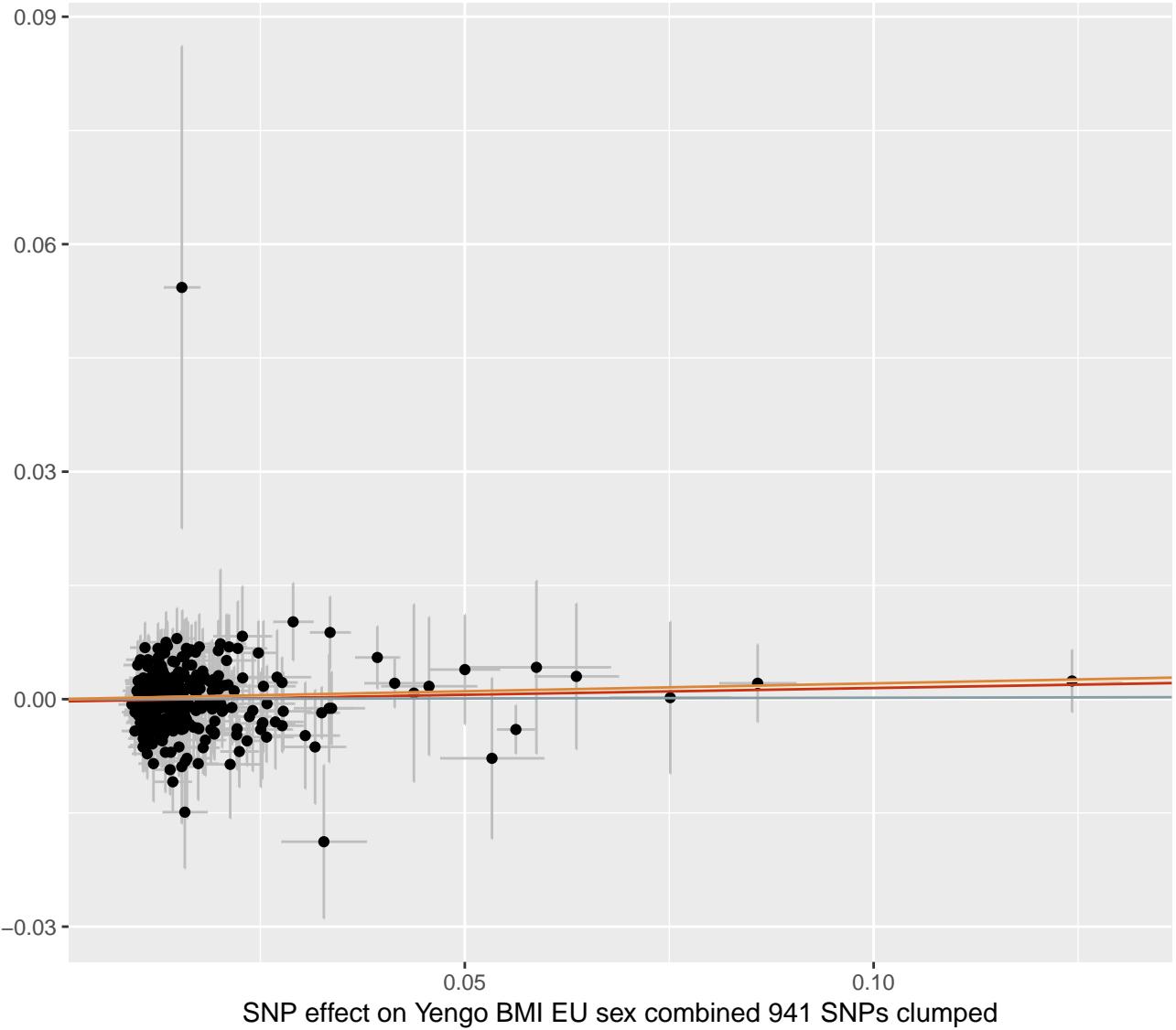


Weighted median



Weighted mode

SNP effect on Valeret || id:575



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

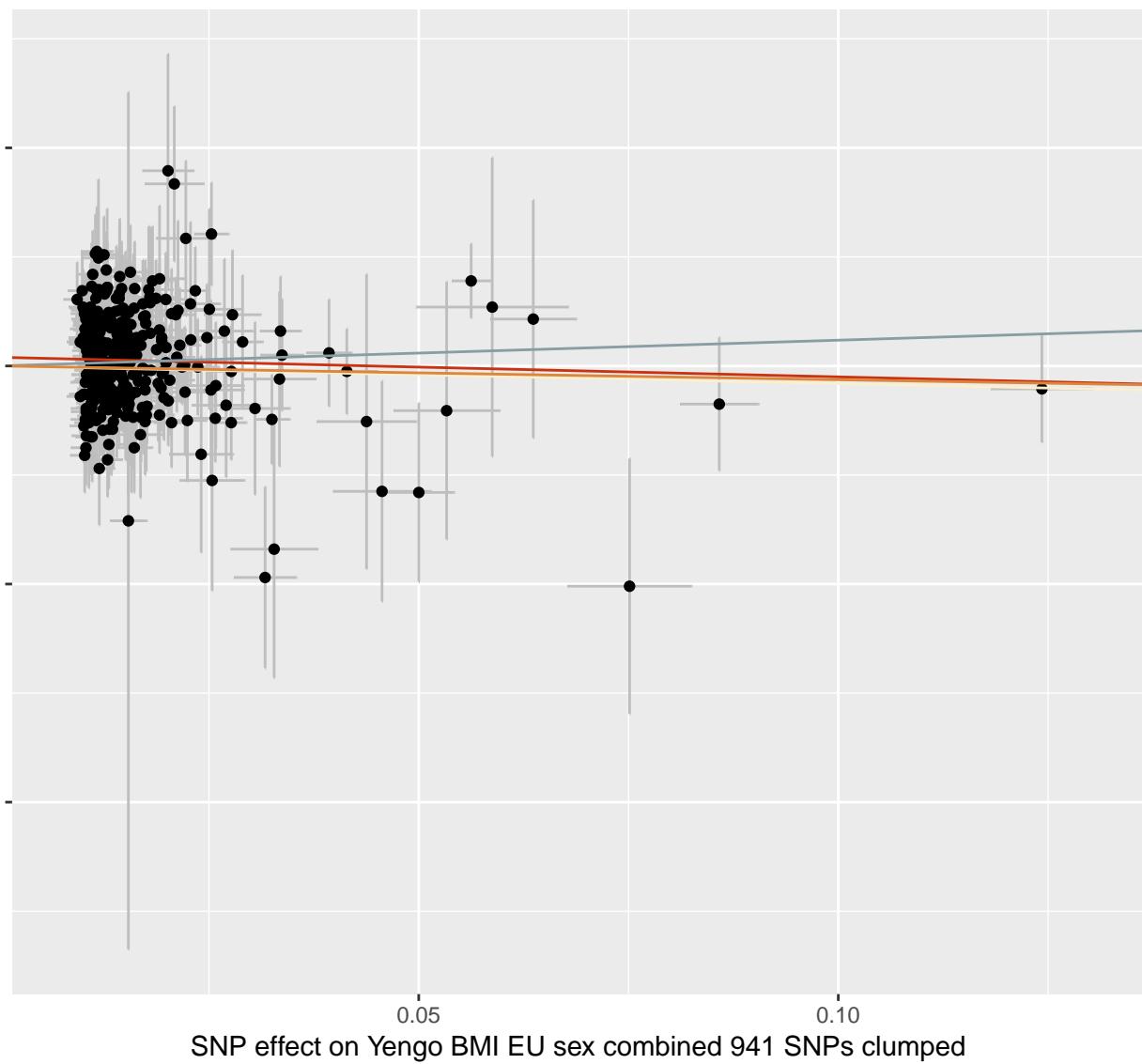


Weighted median



Weighted mode

SNP effect on Palmitoleate (16:1n7) || id:576



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

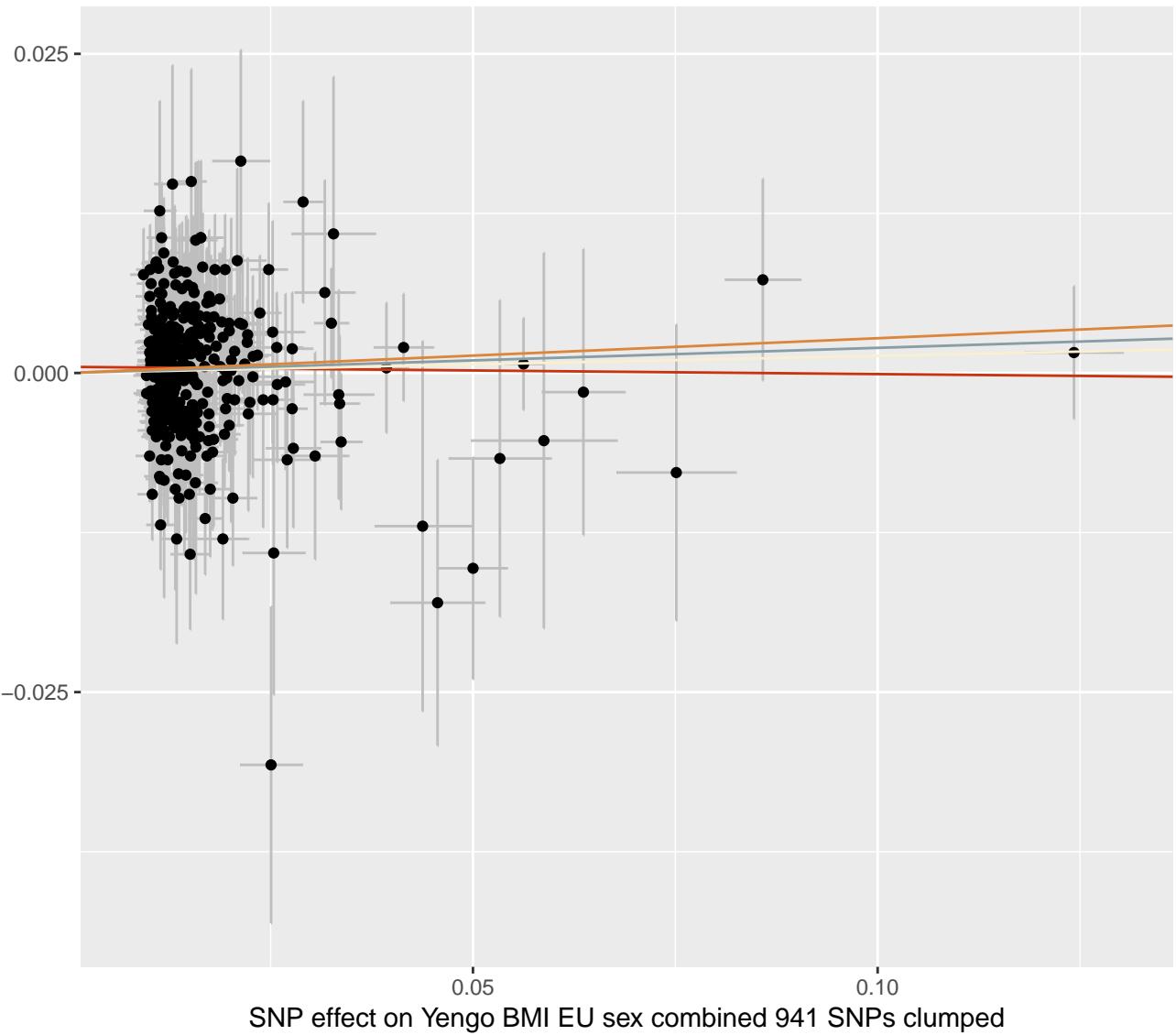


Weighted median



Weighted mode

SNP effect on Alpha-ketoglutarate || id:577



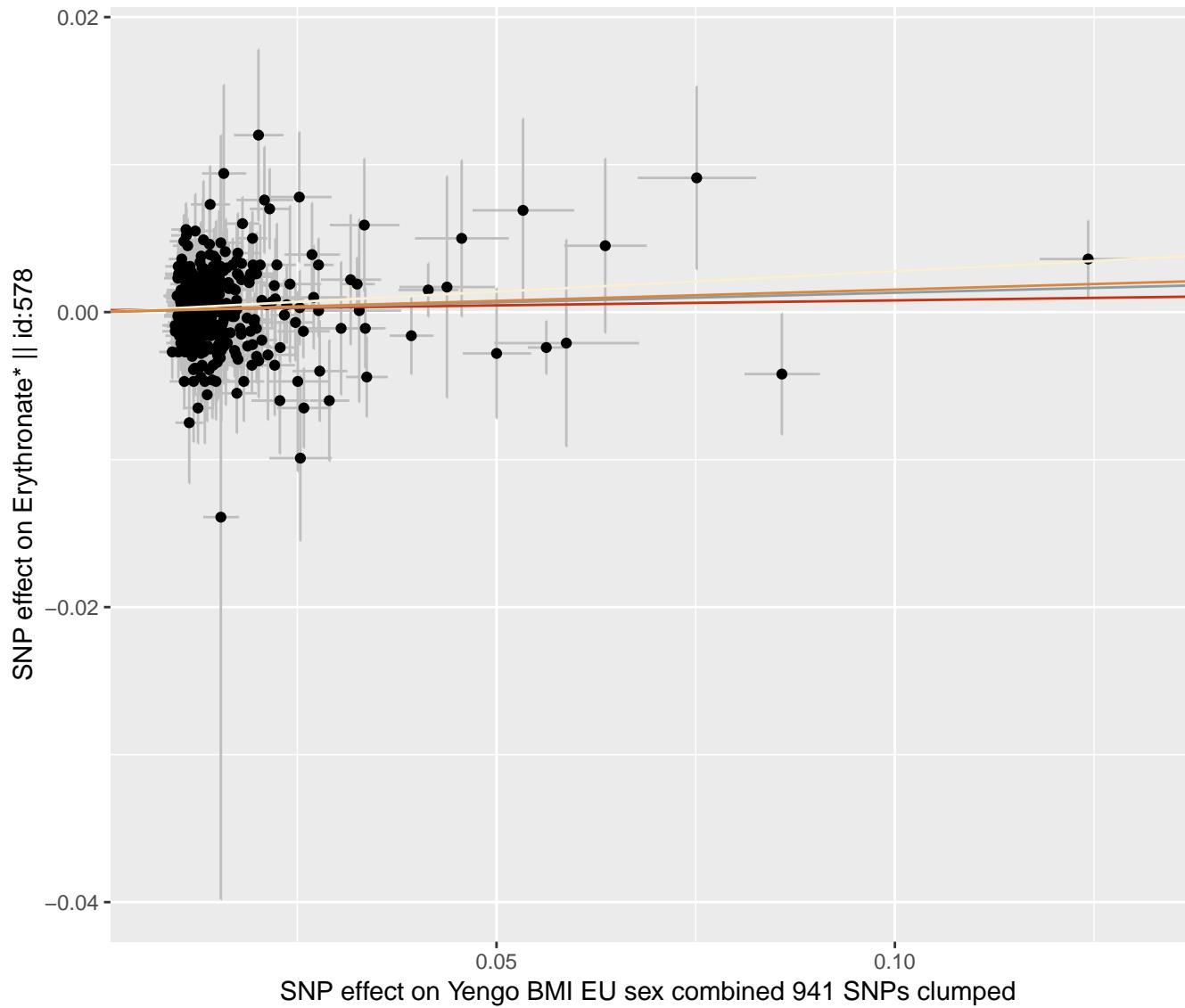
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



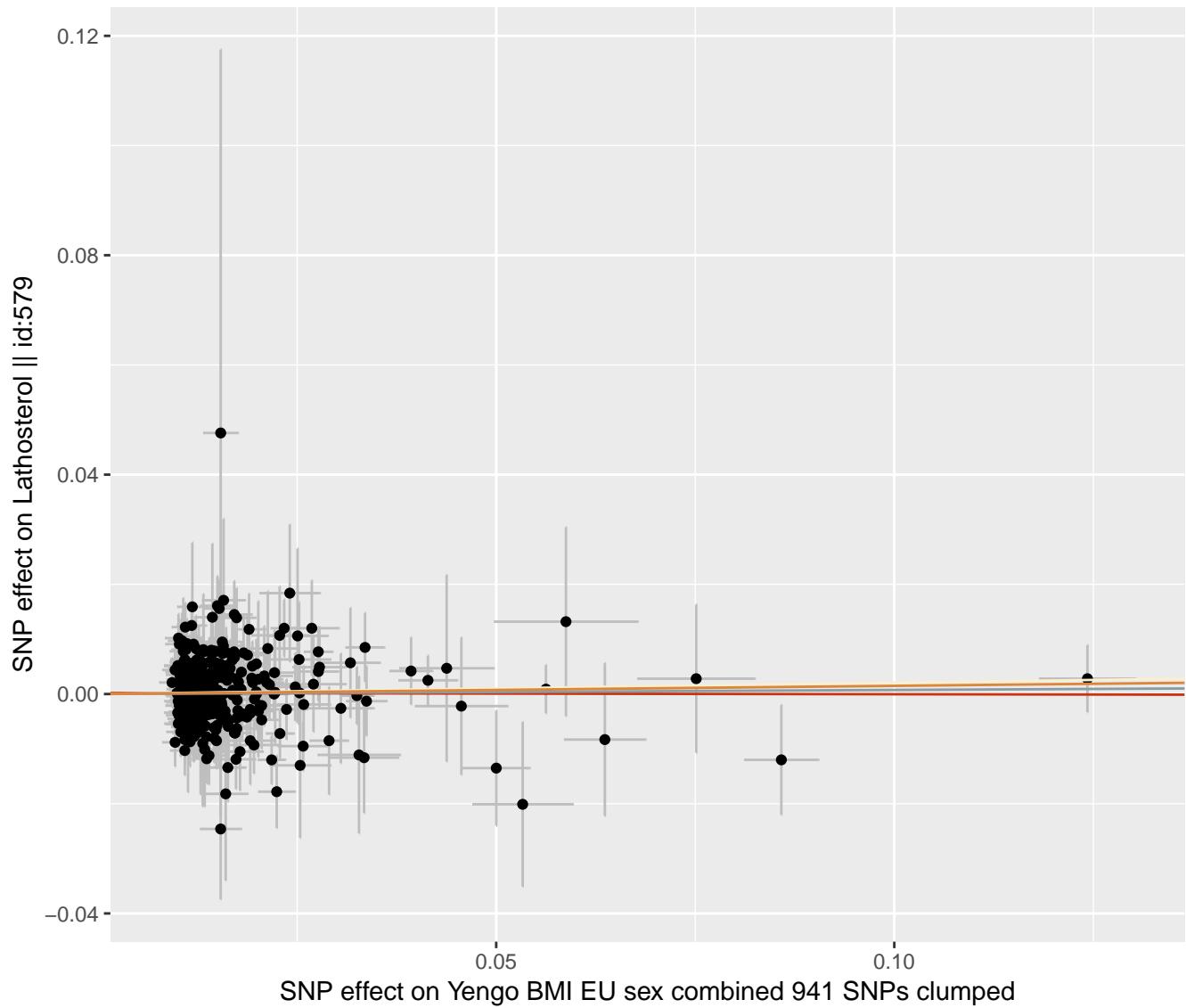
MR Egger



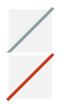
Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



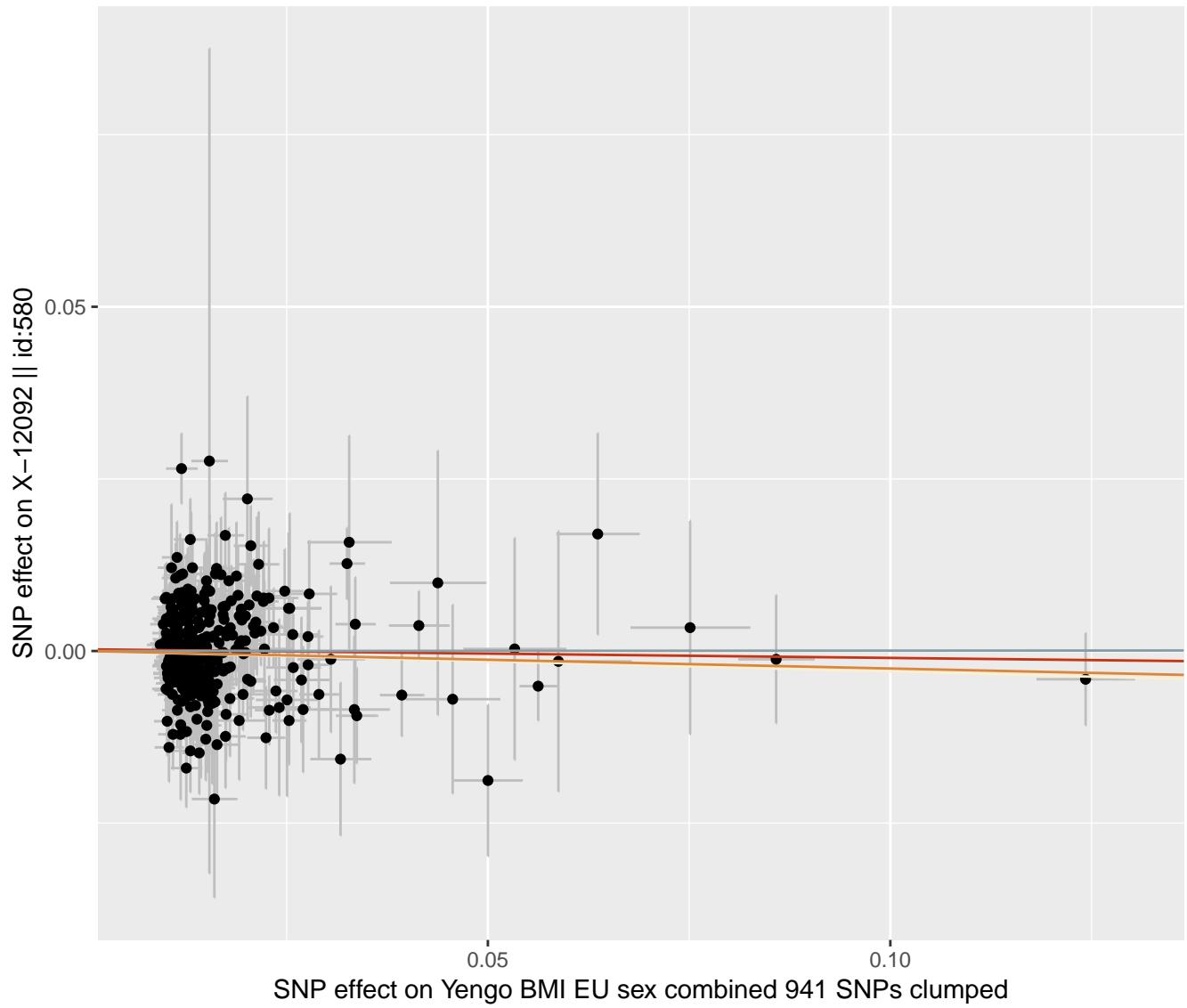
MR Egger



Weighted median



Weighted mode



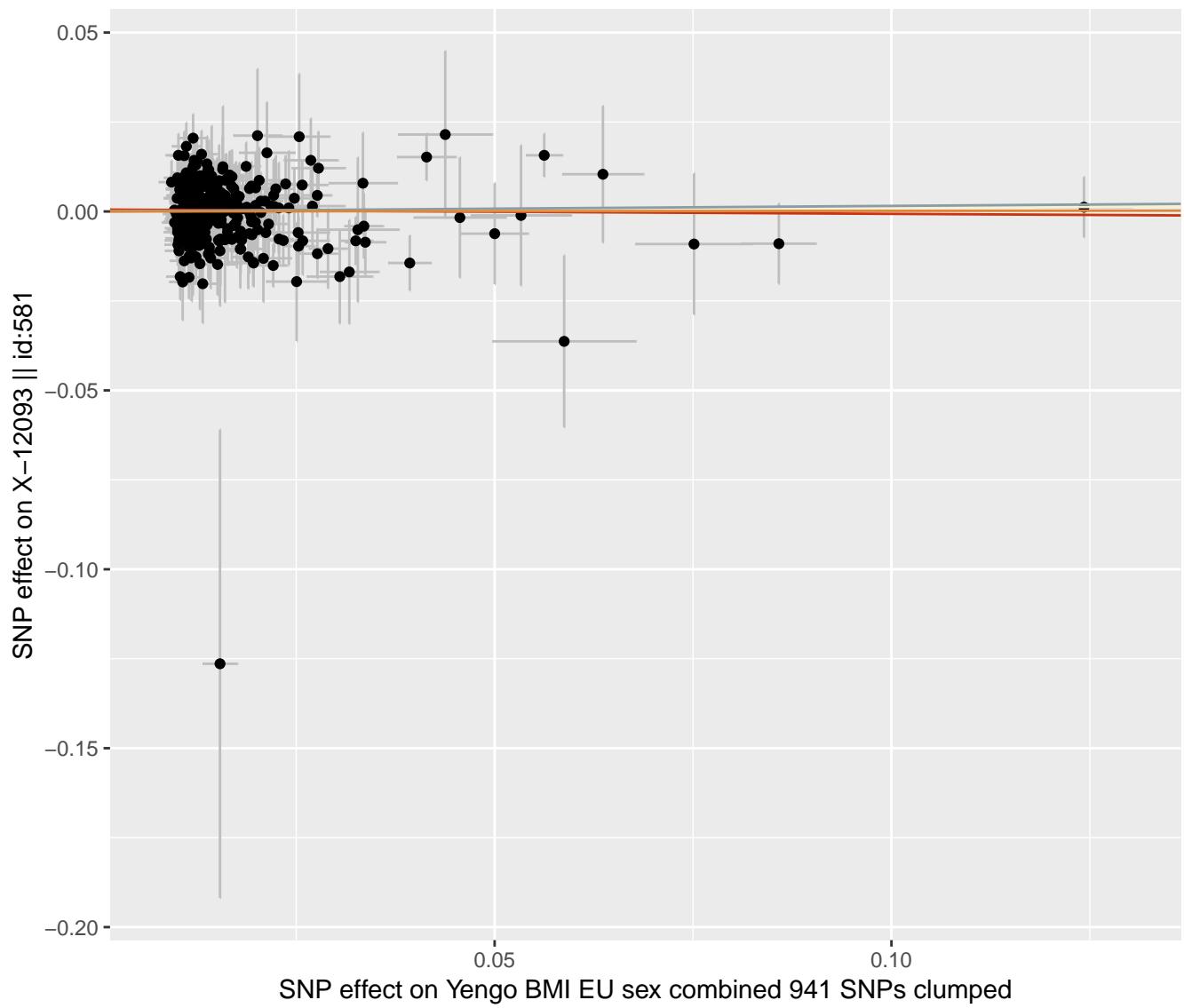
### MR Test

 Inverse variance weighted (multiplicative random effects)

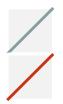
 MR Egger

 Weighted median

 Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on X-12094 || id:582

0.08

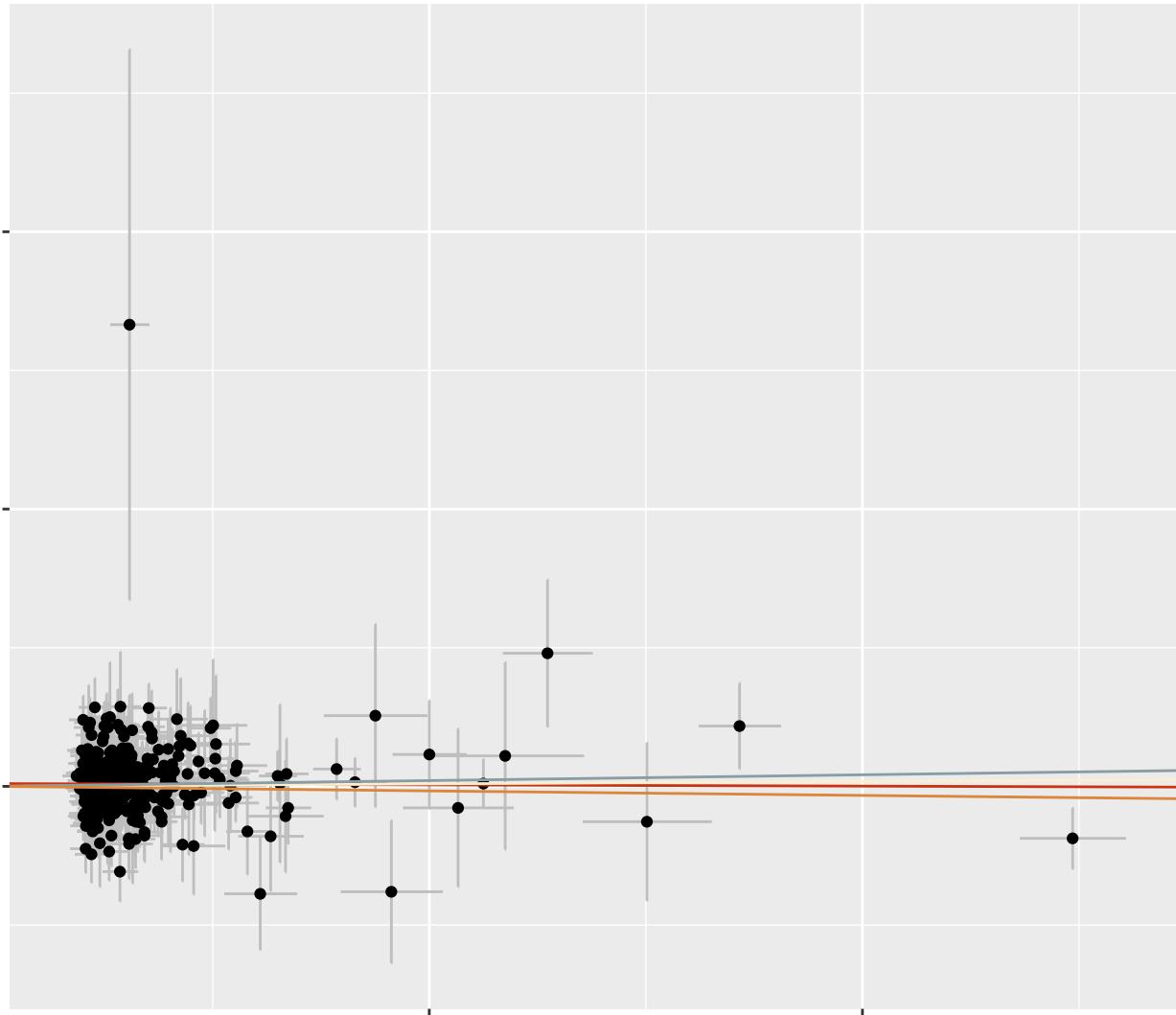
0.04

0.00

0.05

0.10

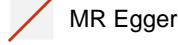
SNP effect on Yengo BMI EU sex combined 941 SNPs clumped



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

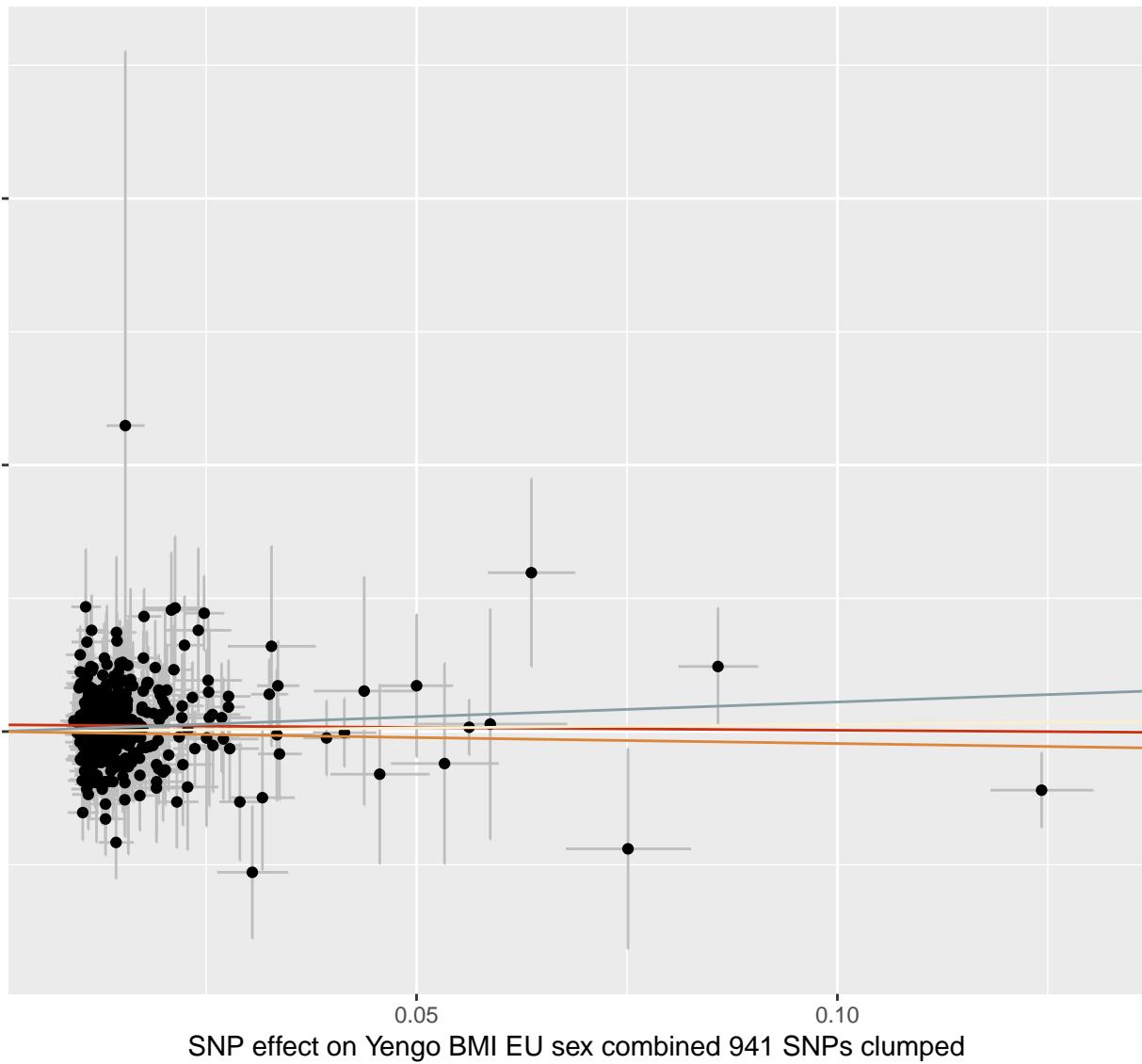


Weighted median



Weighted mode

SNP effect on X-12095-N1-methyl-3-pyridone-4-carboxamide || id:583



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



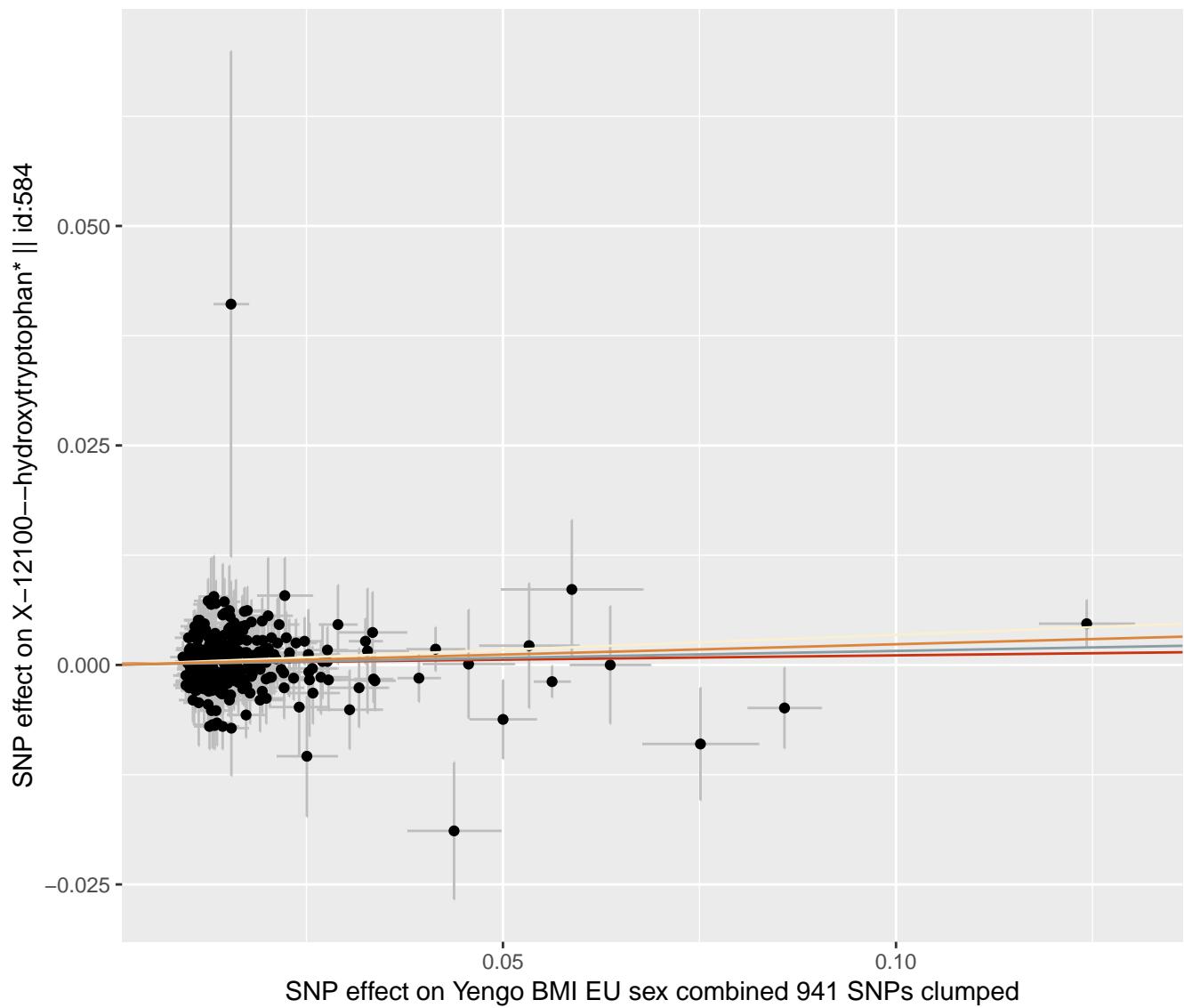
MR Egger



Weighted median



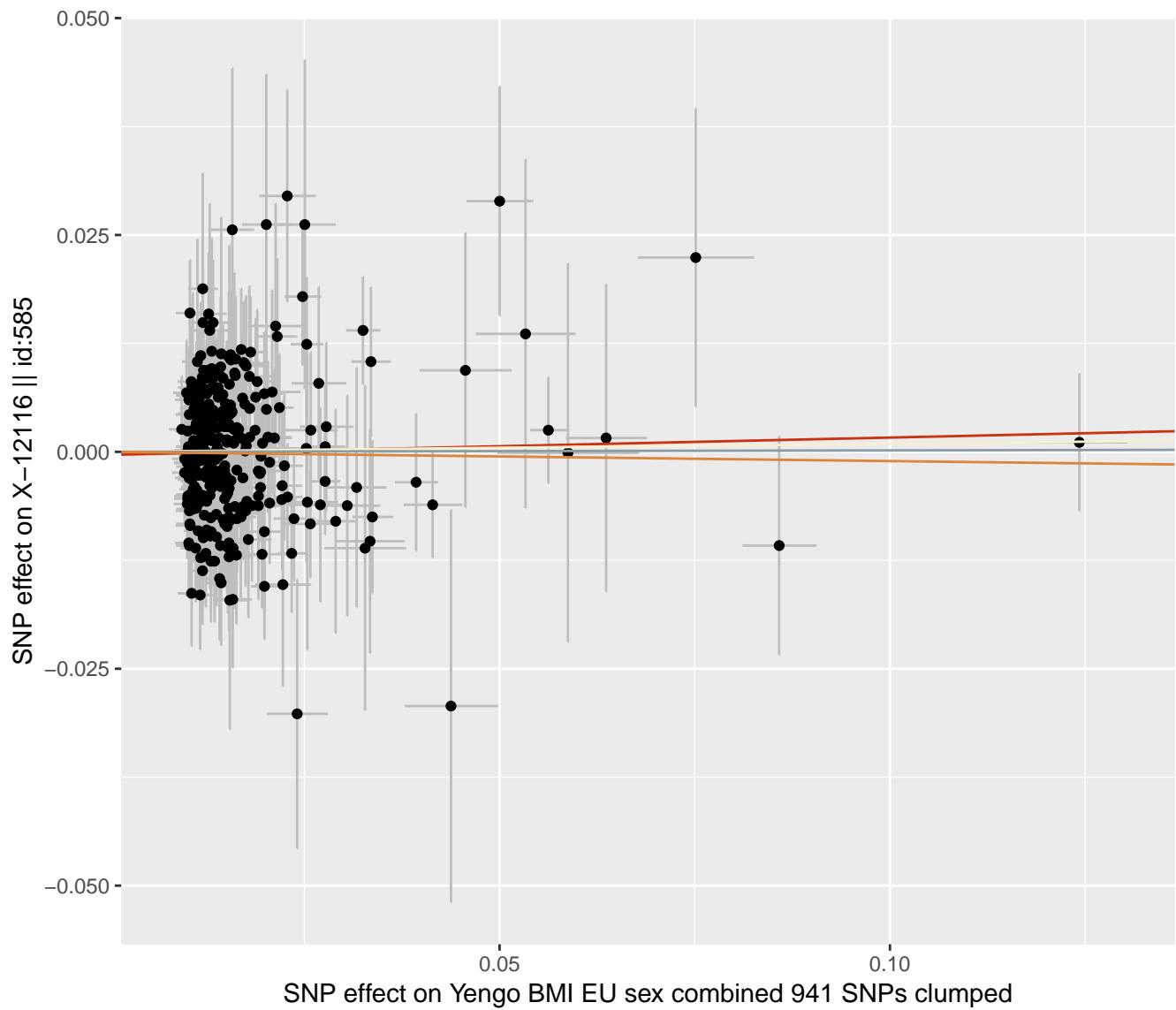
Weighted mode



## MR Test

## Inverse variance weighted (multiplicative random effects) MR Egger

Weighted median  
Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



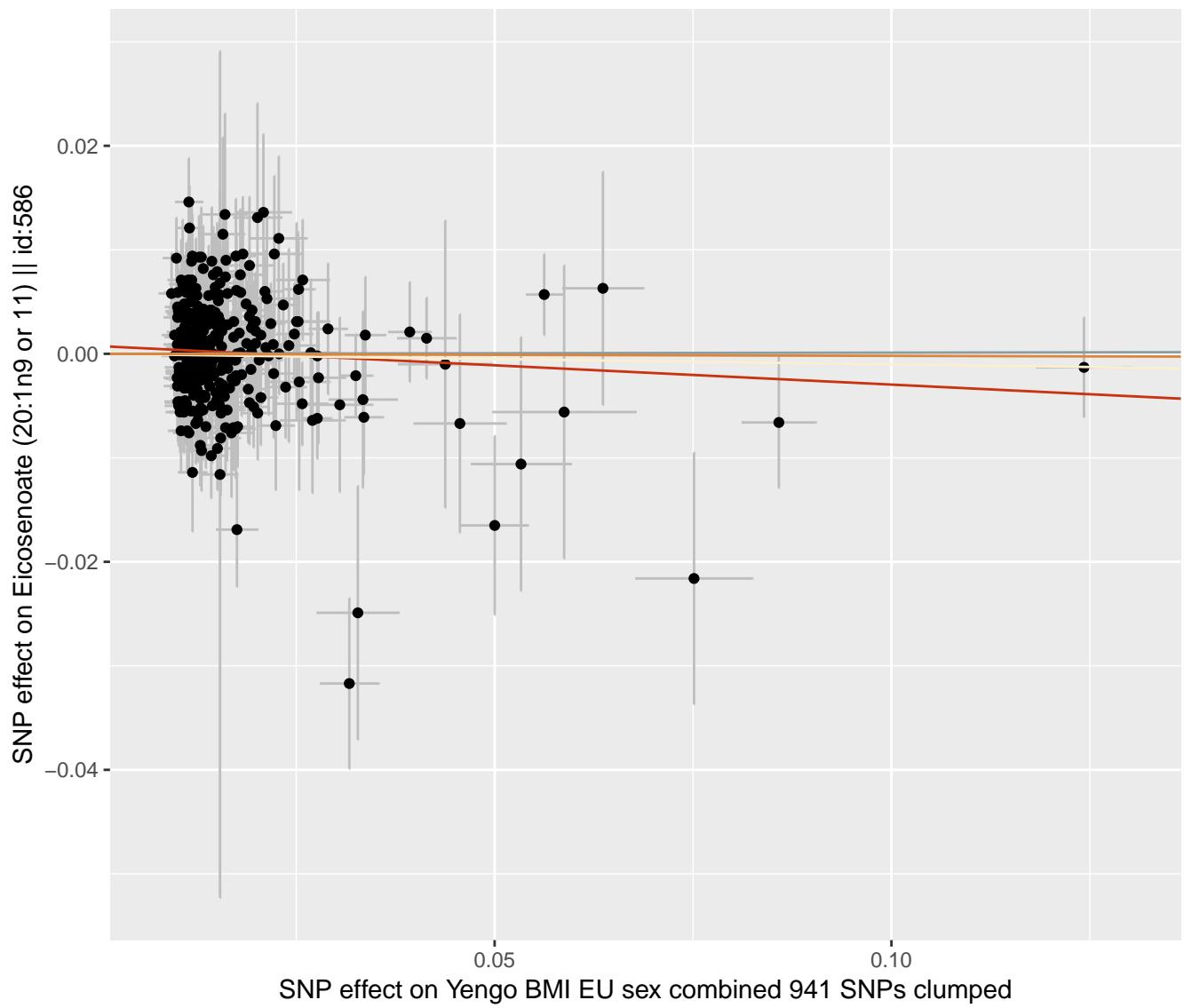
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

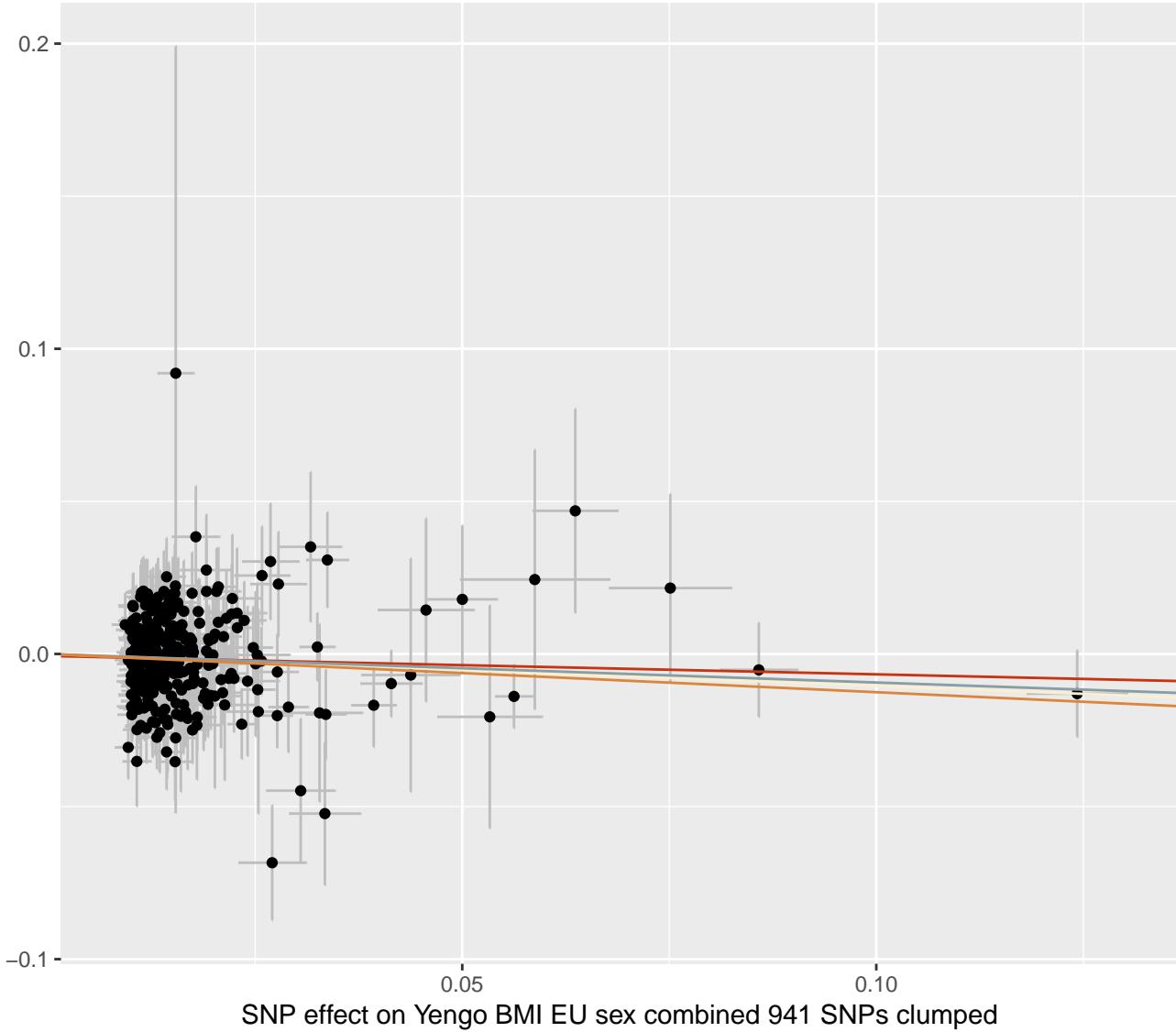


Weighted median



Weighted mode

SNP effect on X-12188 || id:587

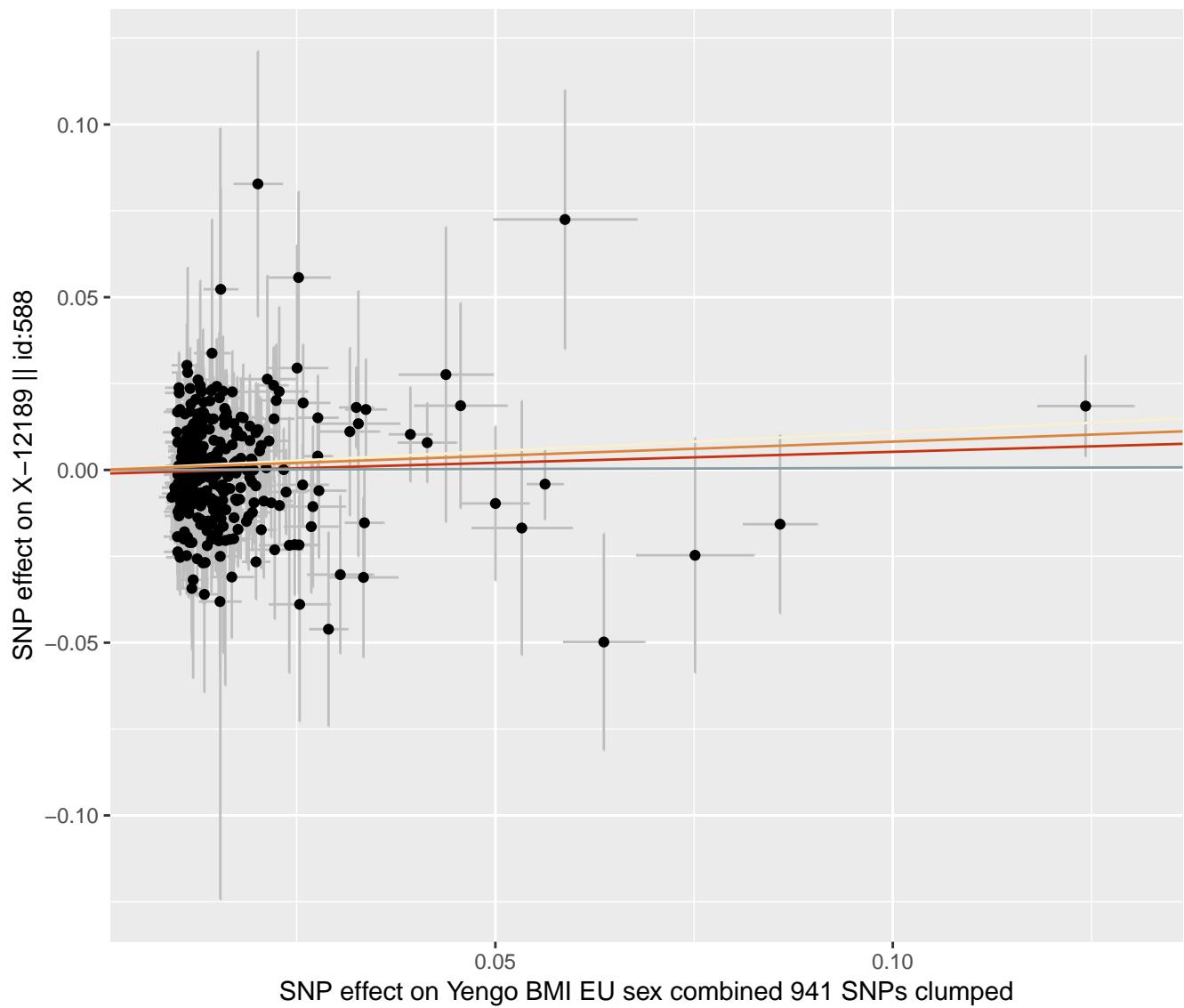


SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test

 Inverse variance weighted (multiplicative random effects)  
 MR Egger

 Weighted median  
 Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



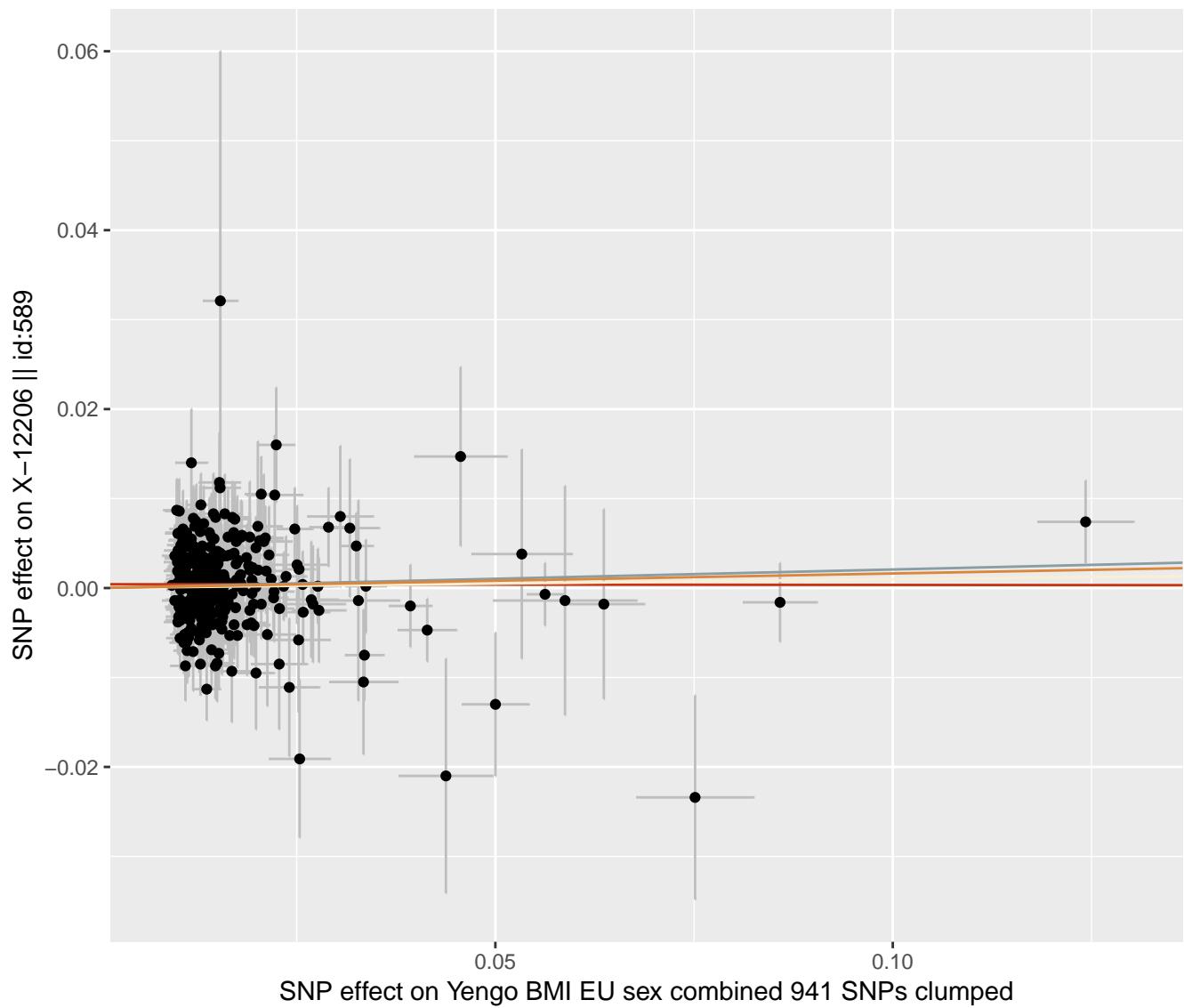
MR Egger



Weighted median

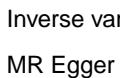


Weighted mode

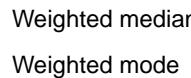


### MR Test

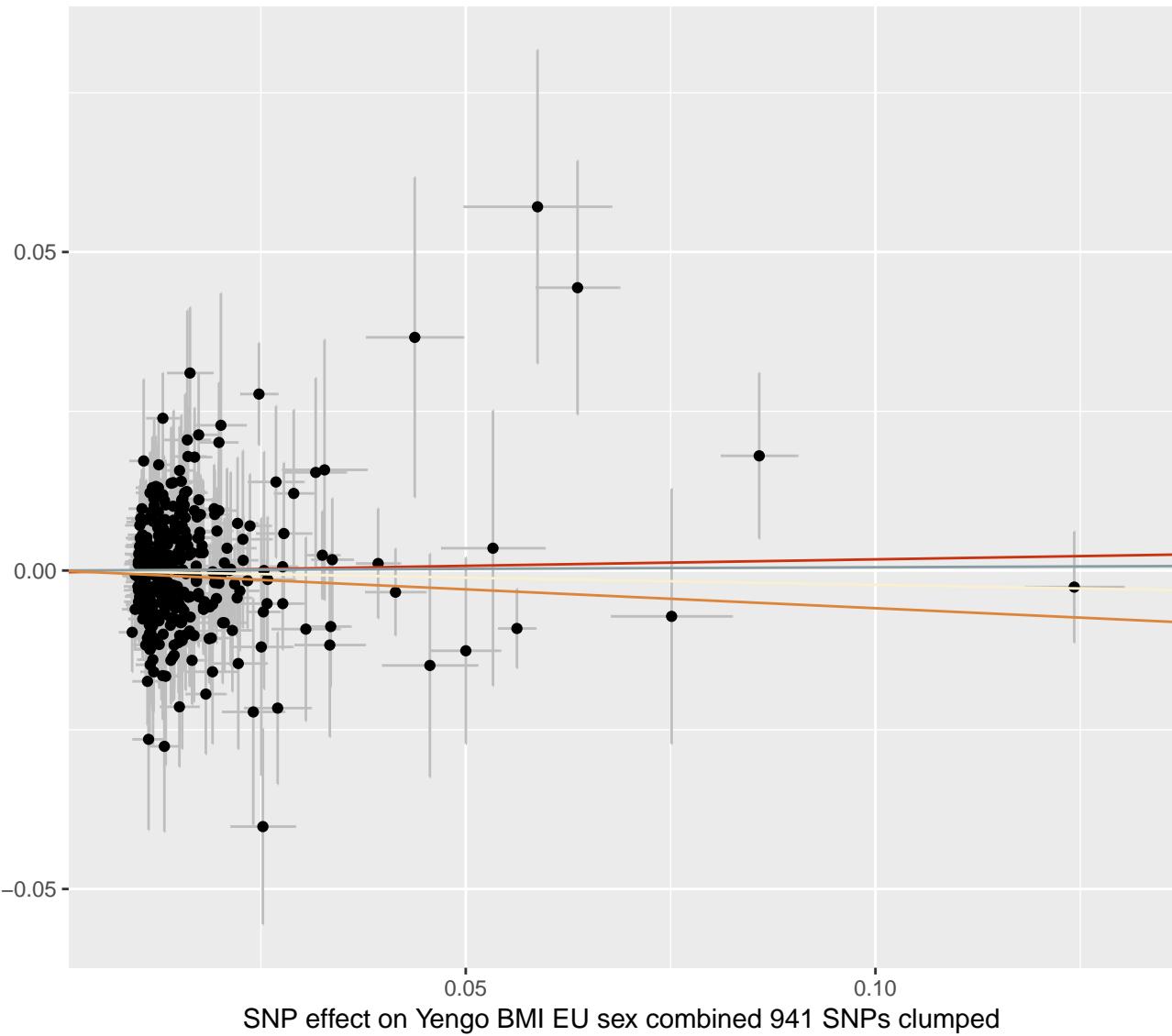
 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

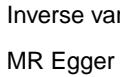
 Weighted mode

SNP effect on X-12212 || id:590



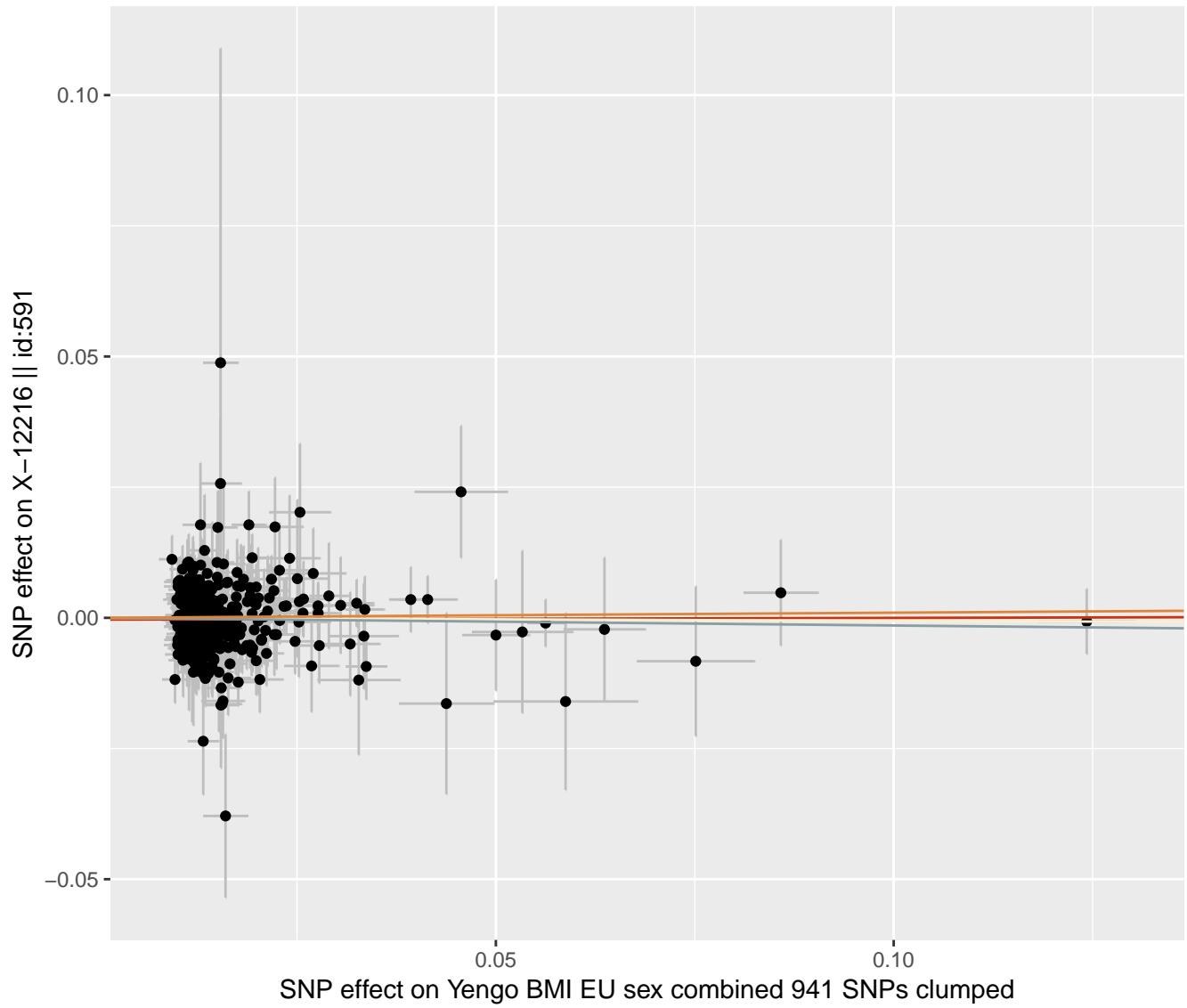
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



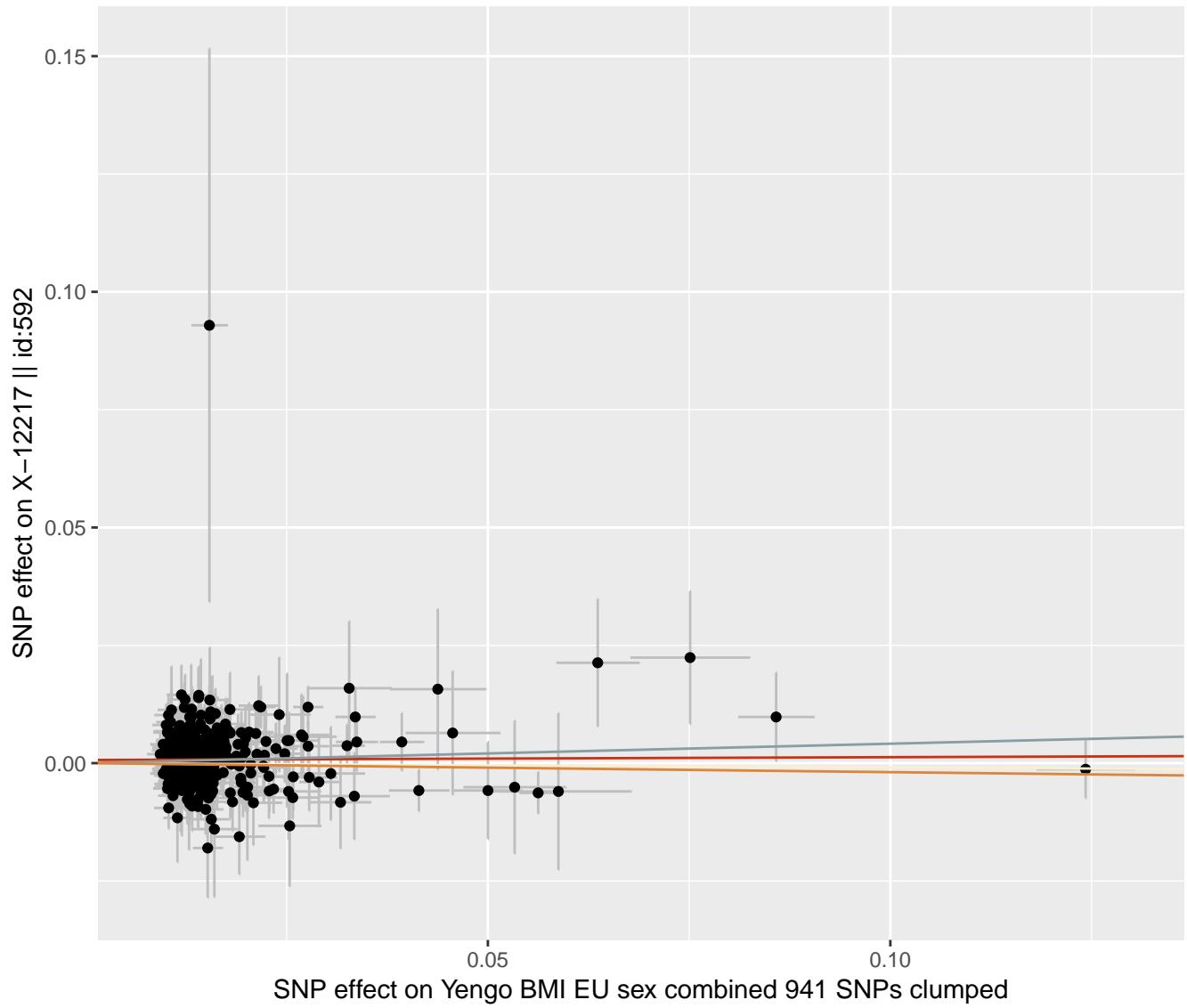
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



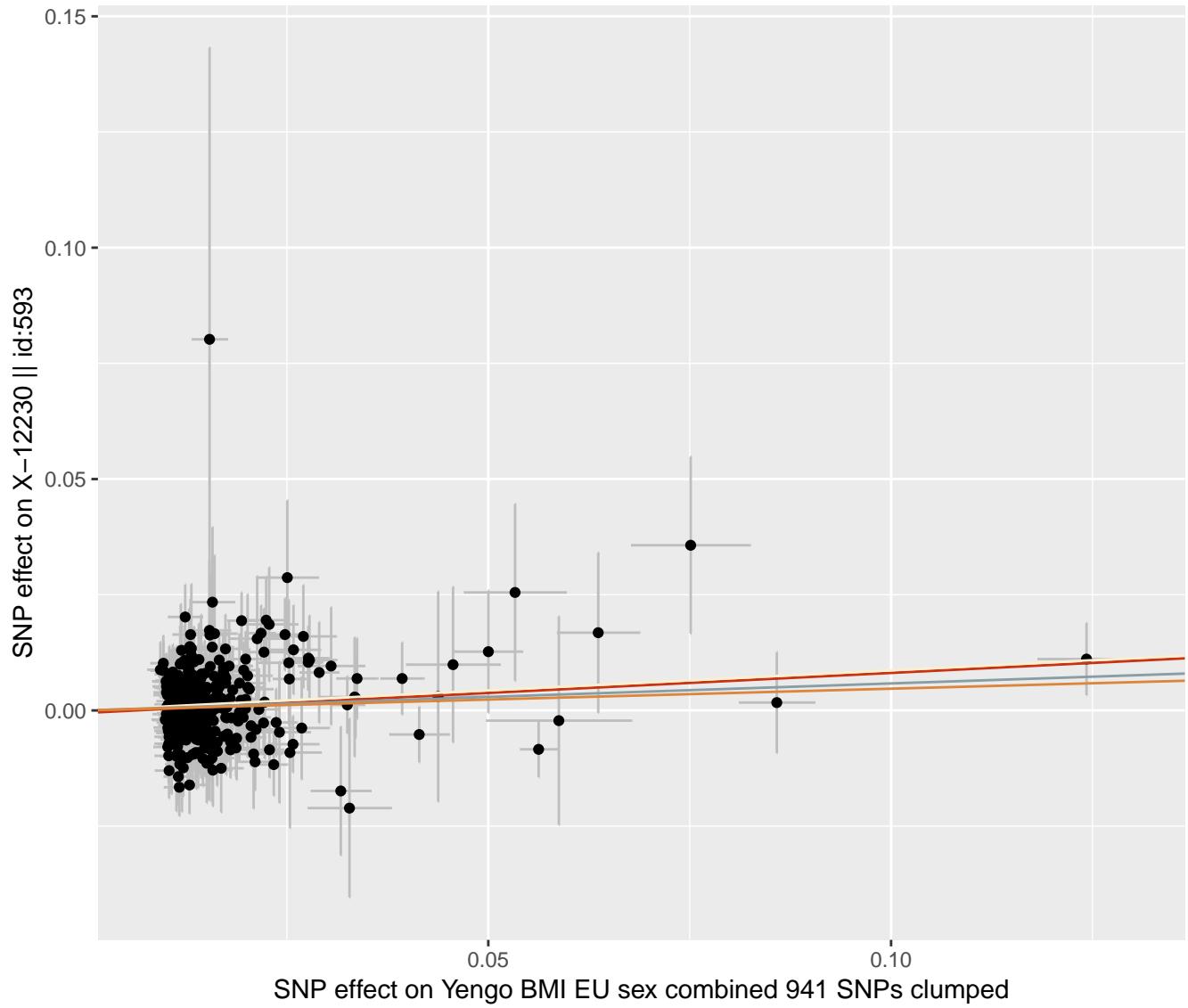
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

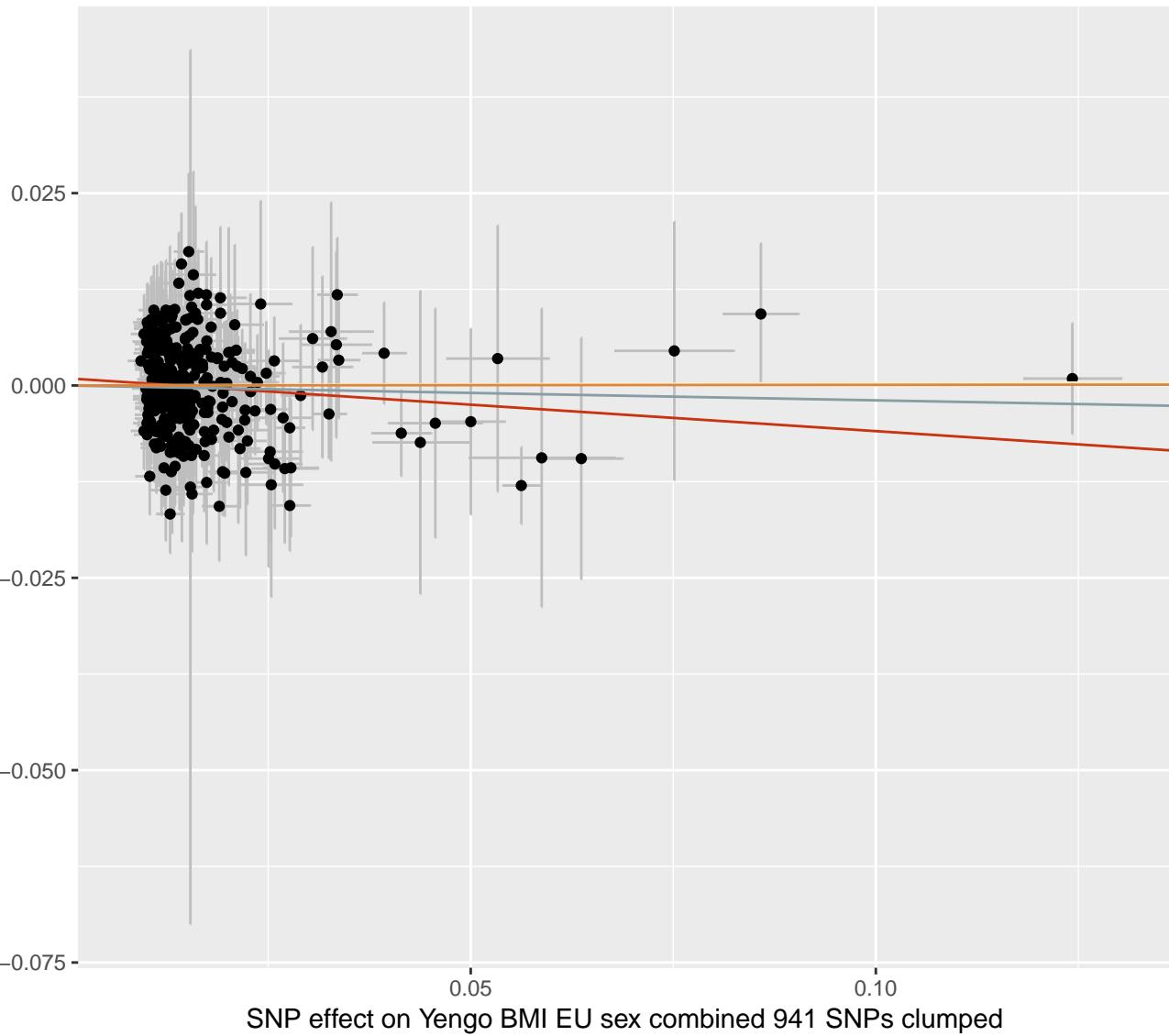


Weighted median



Weighted mode

SNP effect on X-12231 || id:594



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

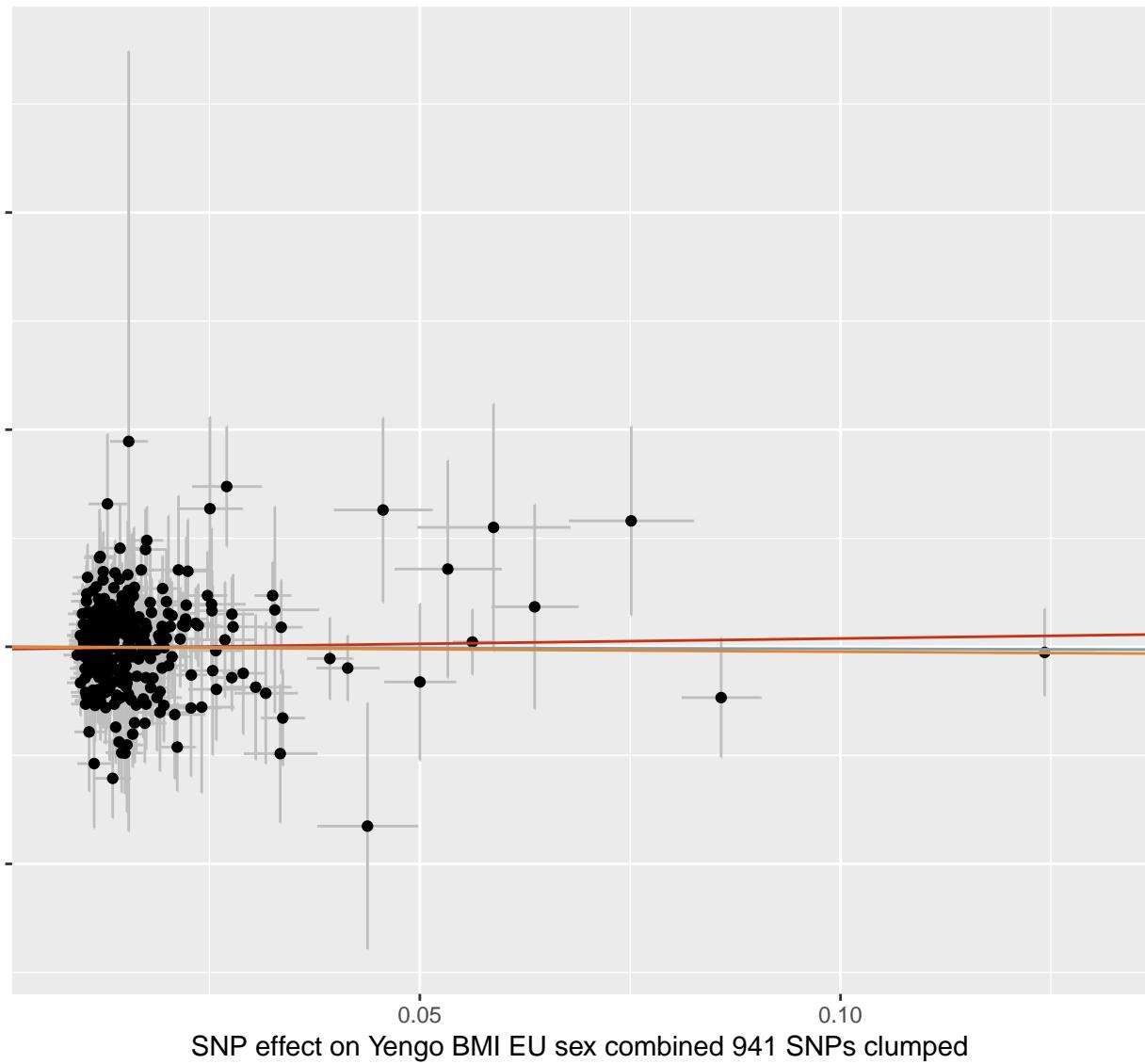


Weighted median



Weighted mode

SNP effect on X-12236 || id:595



### MR Test



Inverse variance weighted (multiplicative random effects)



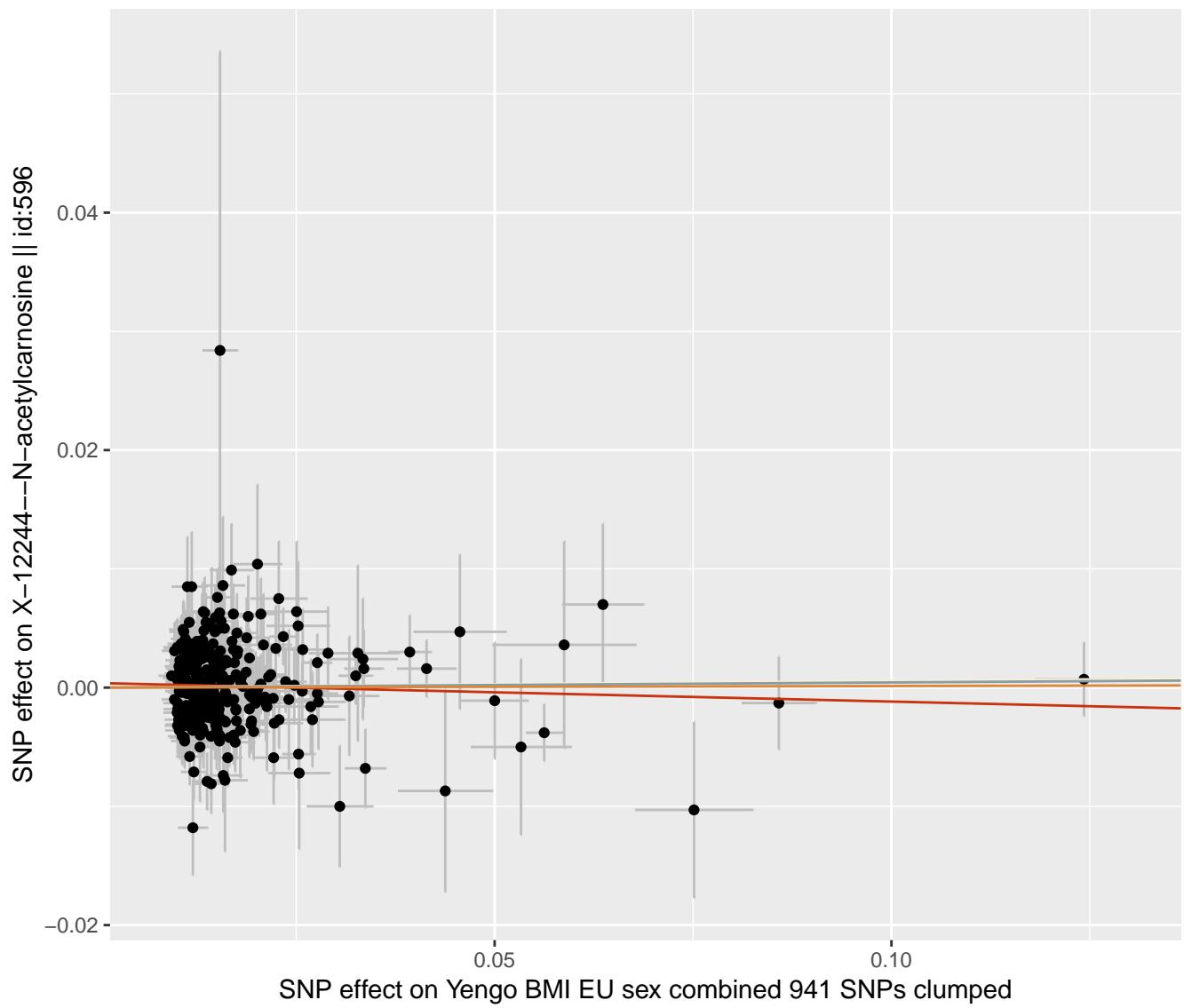
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



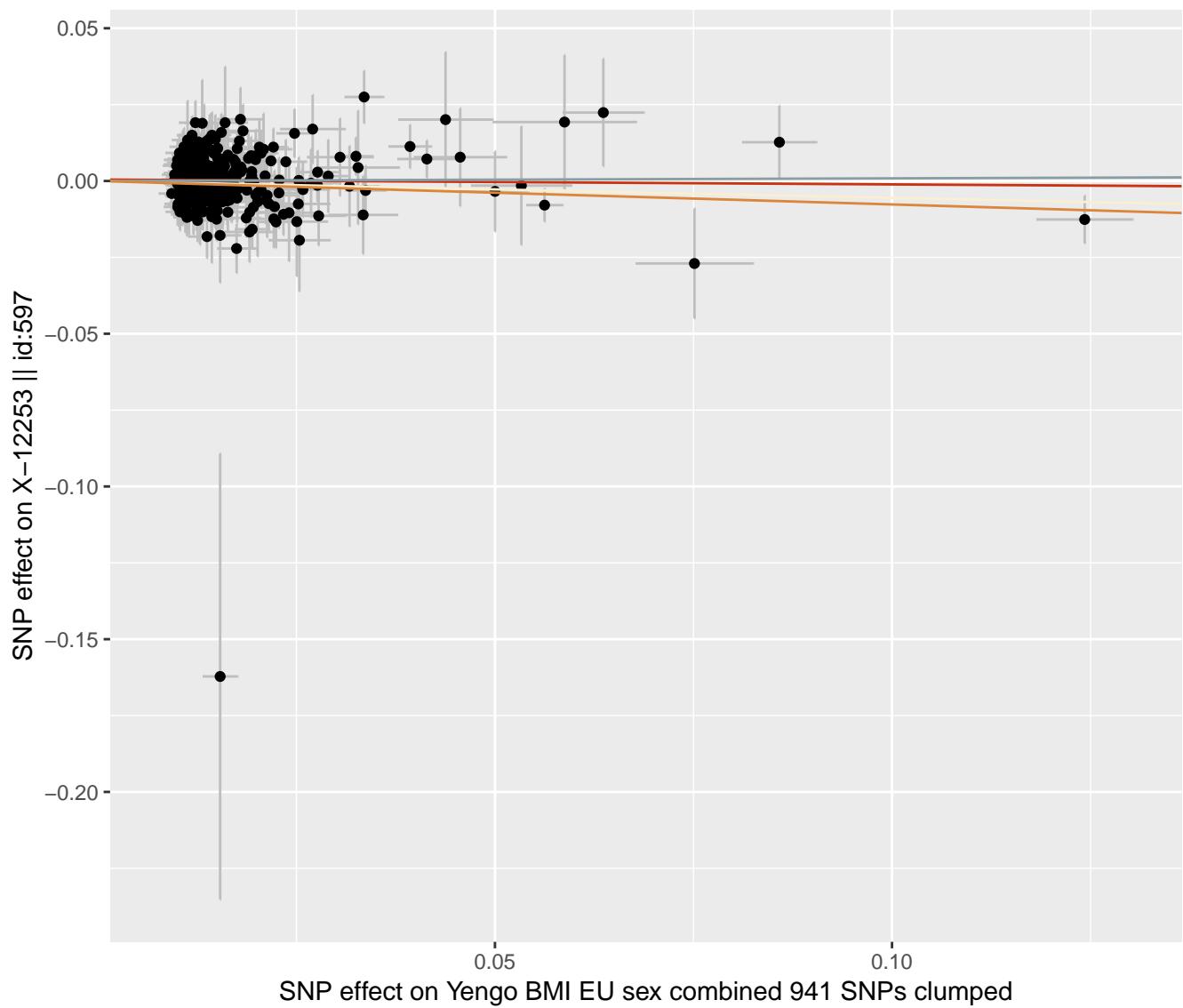
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



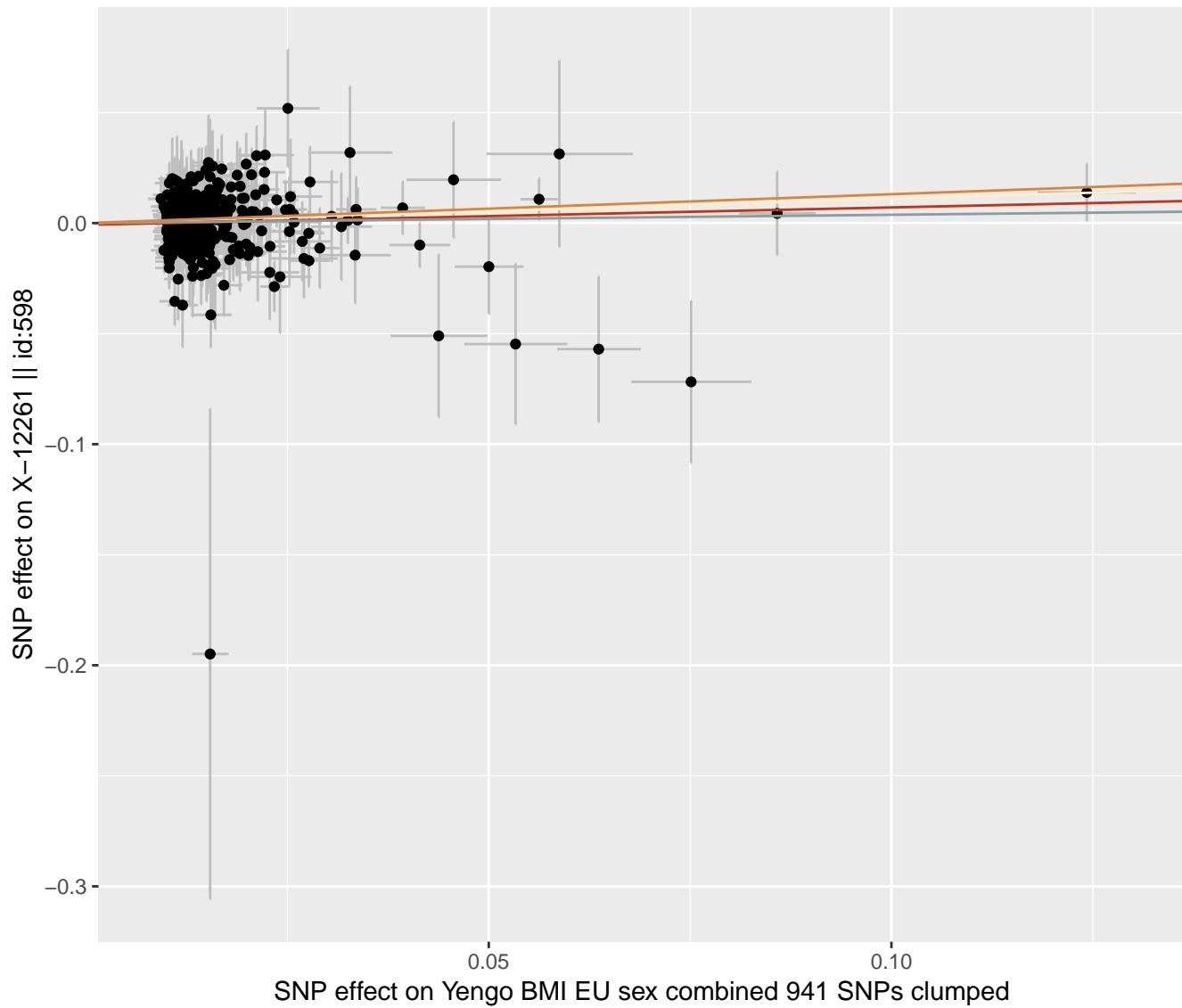
MR Egger



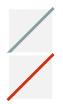
Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



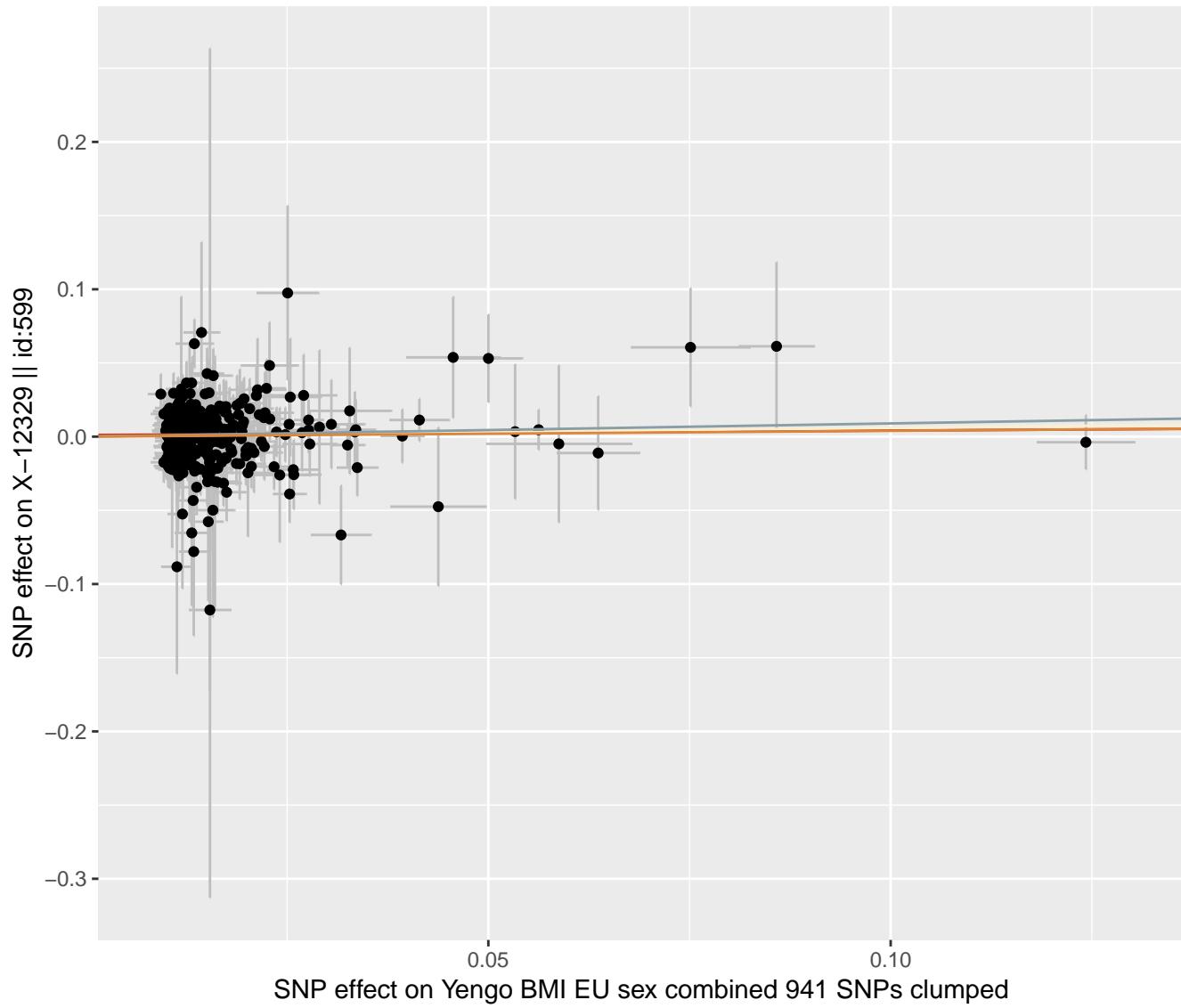
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



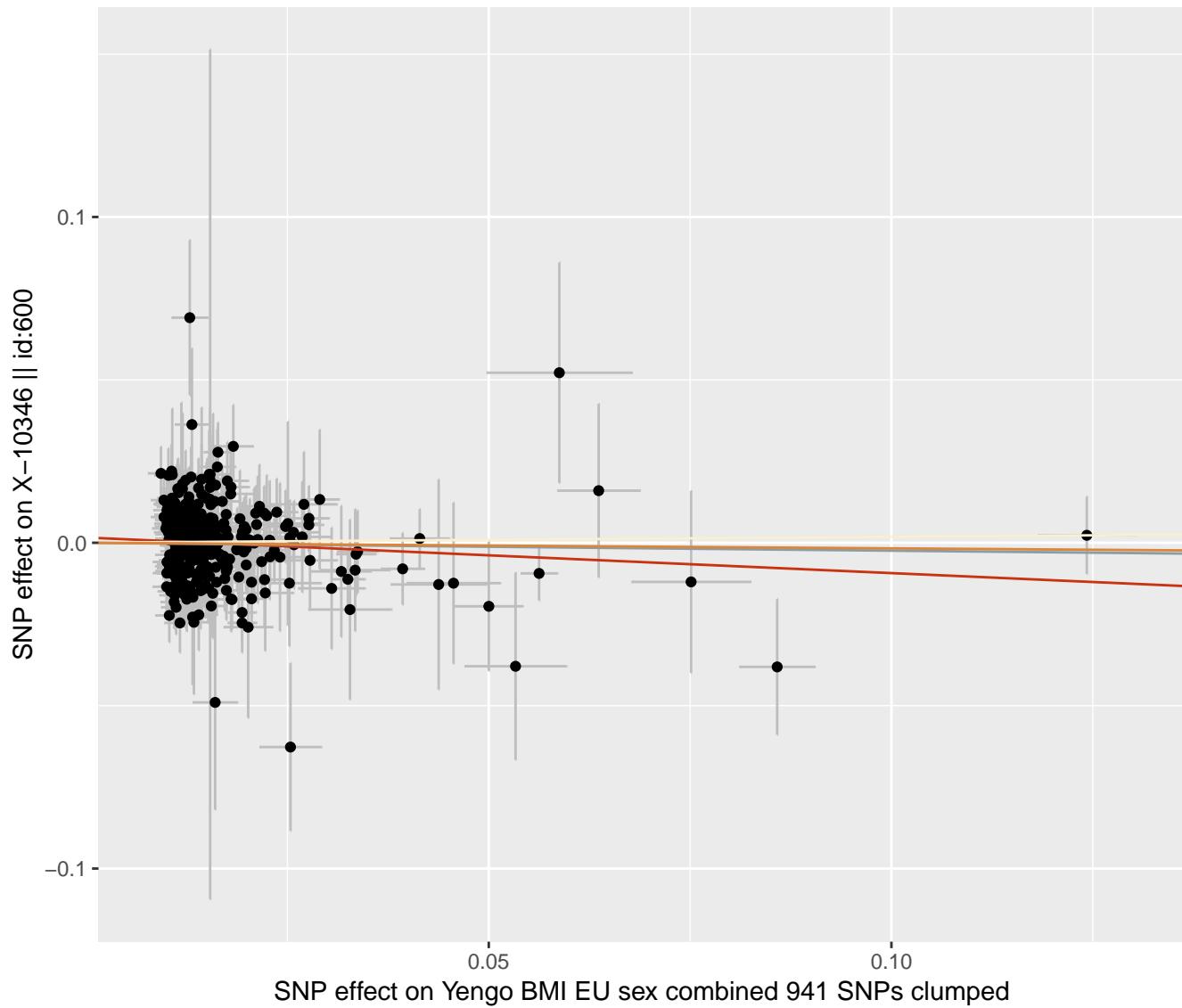
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



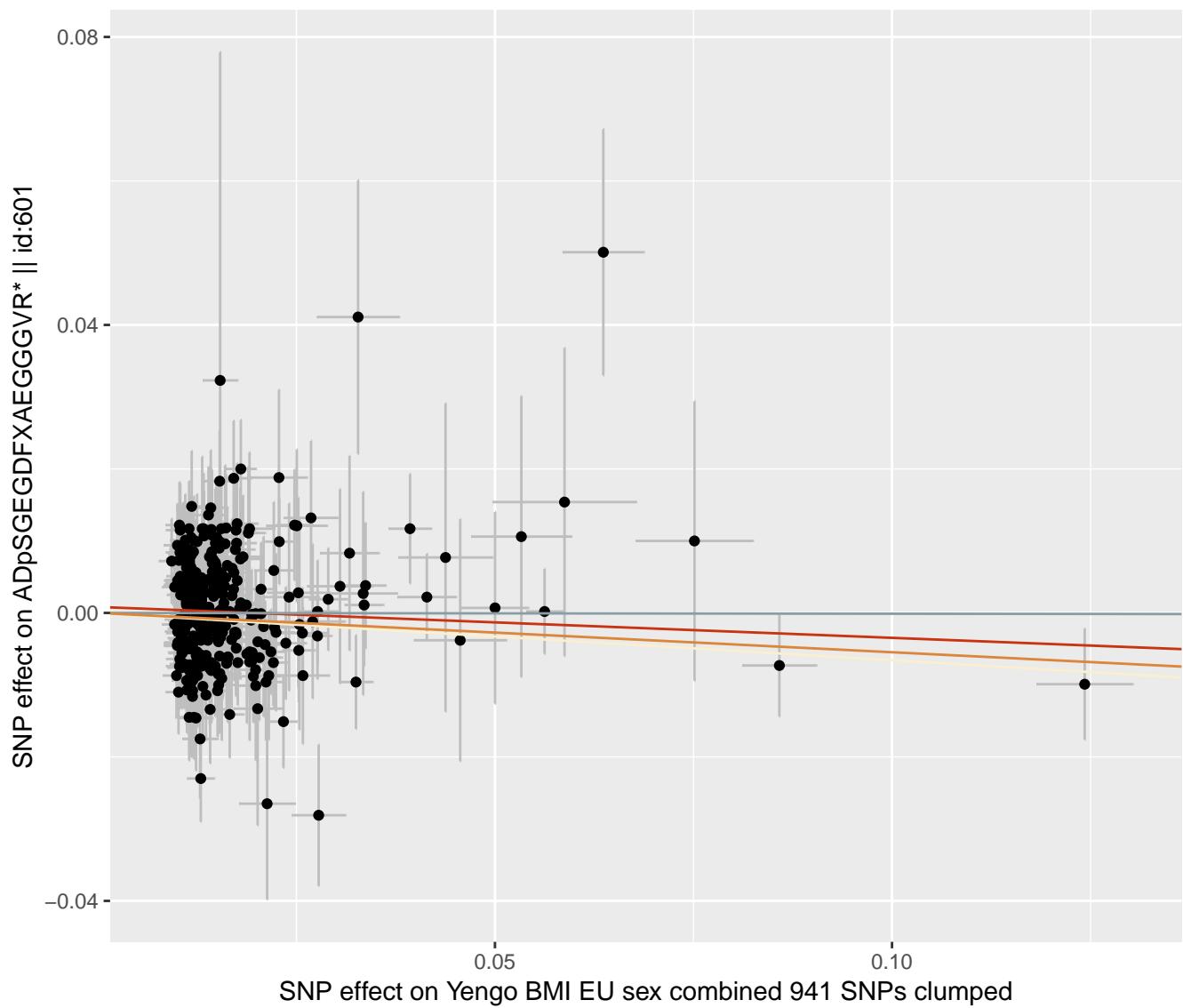
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



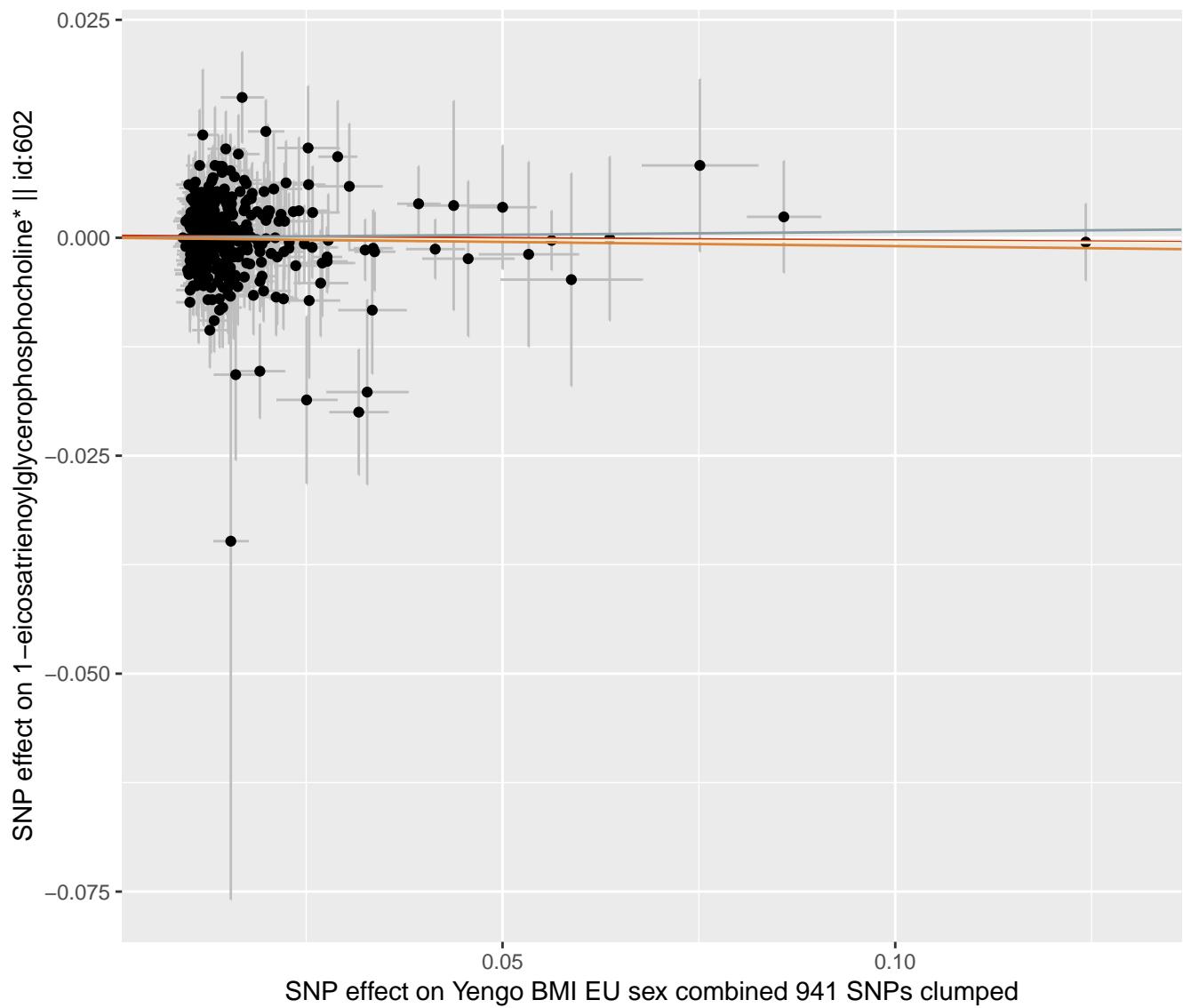
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

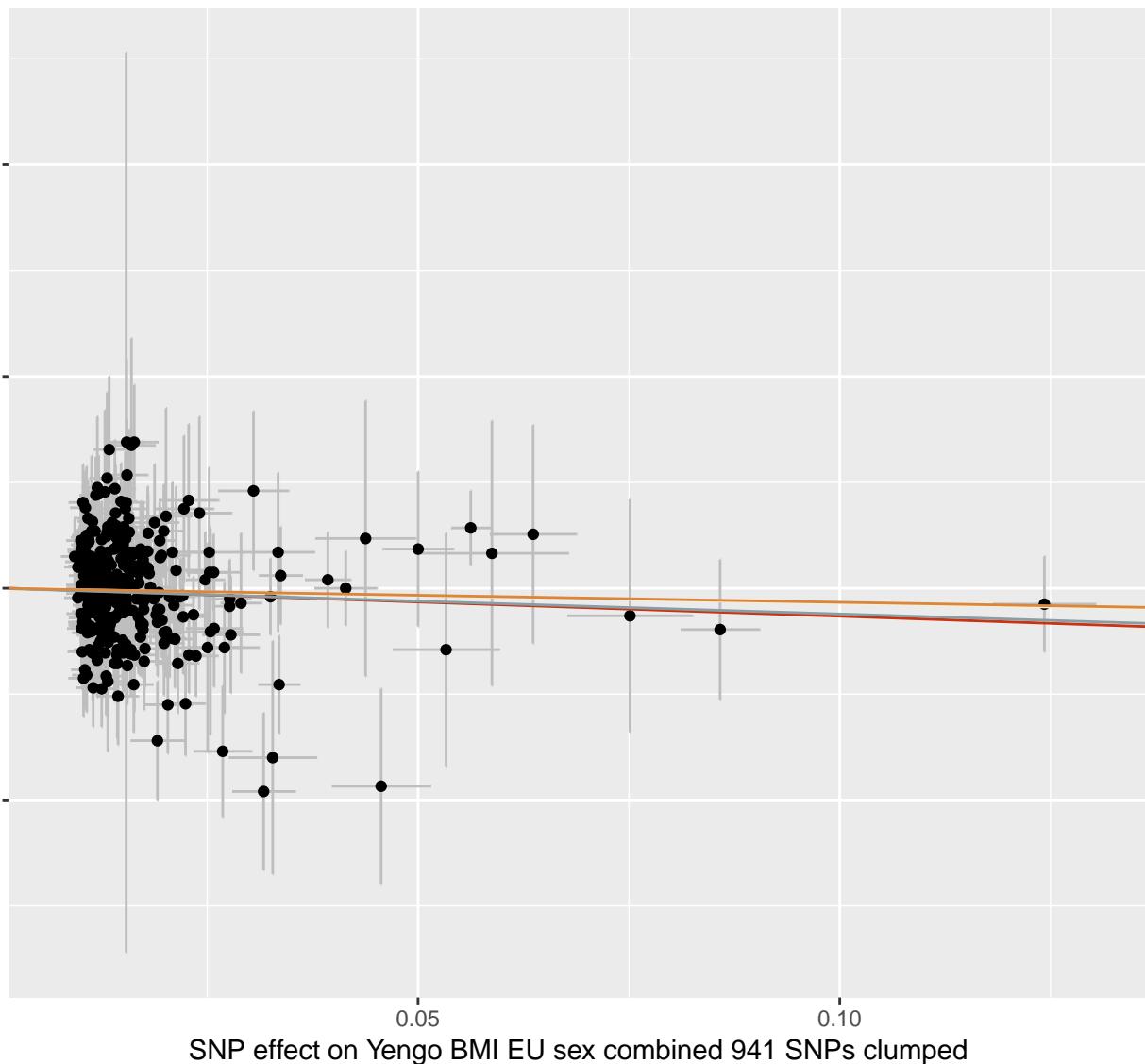


Weighted median



Weighted mode

SNP effect on 1-docosahexaenoylglycerophosphocholine\* || id:603



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

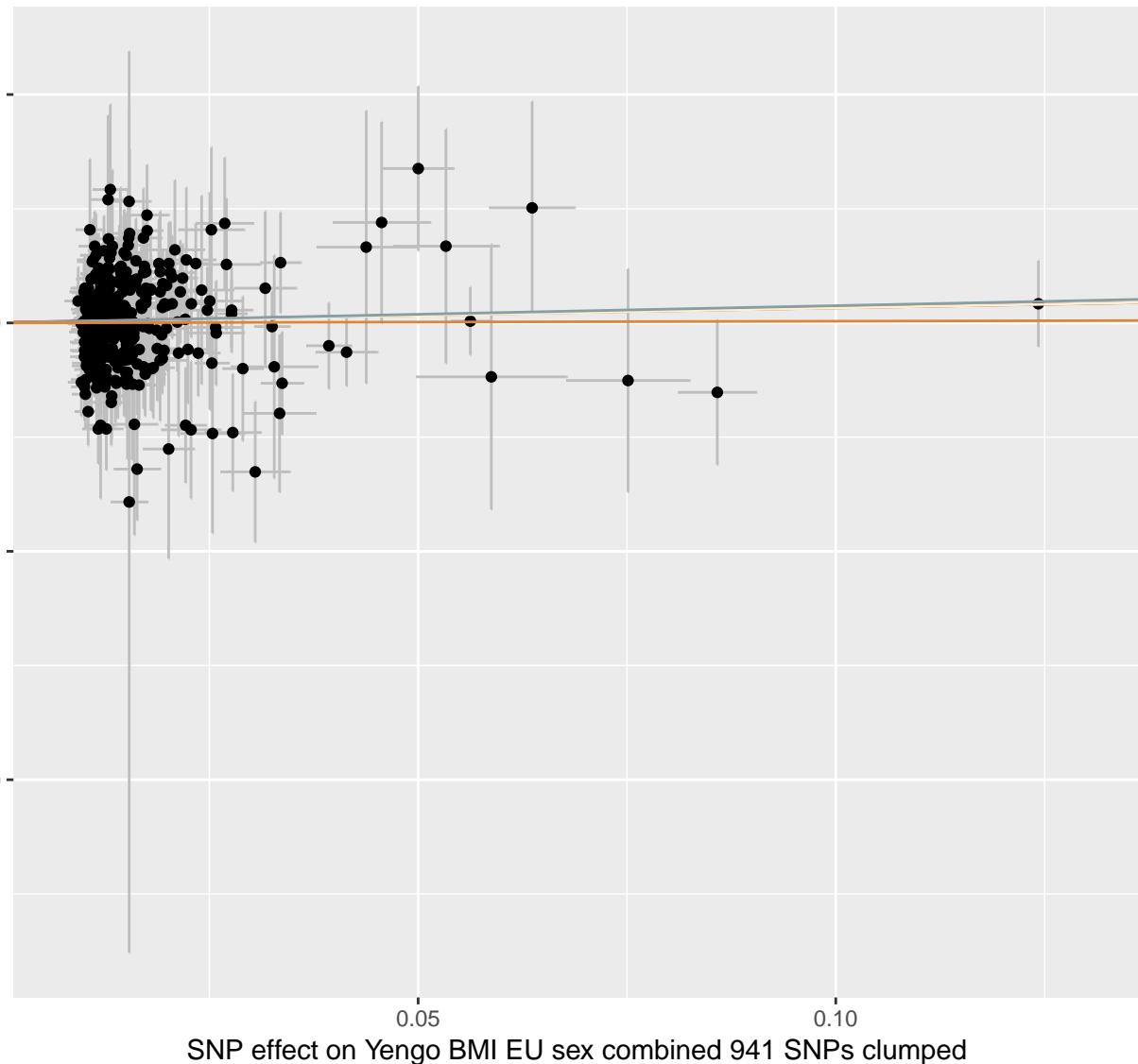


Weighted median

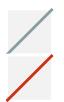


Weighted mode

SNP effect on X-12405 || id:604



### MR Test



Inverse variance weighted (multiplicative random effects)



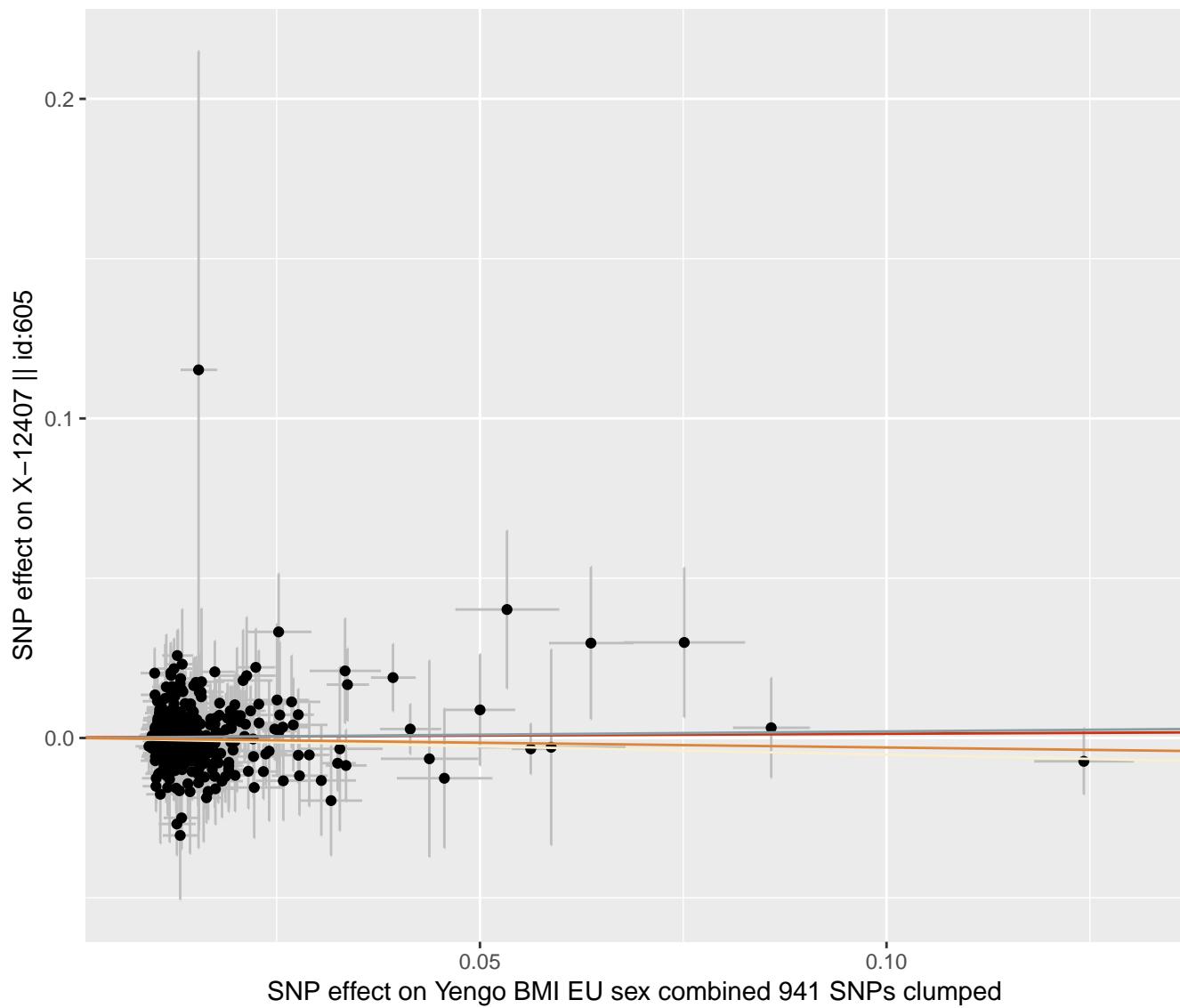
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



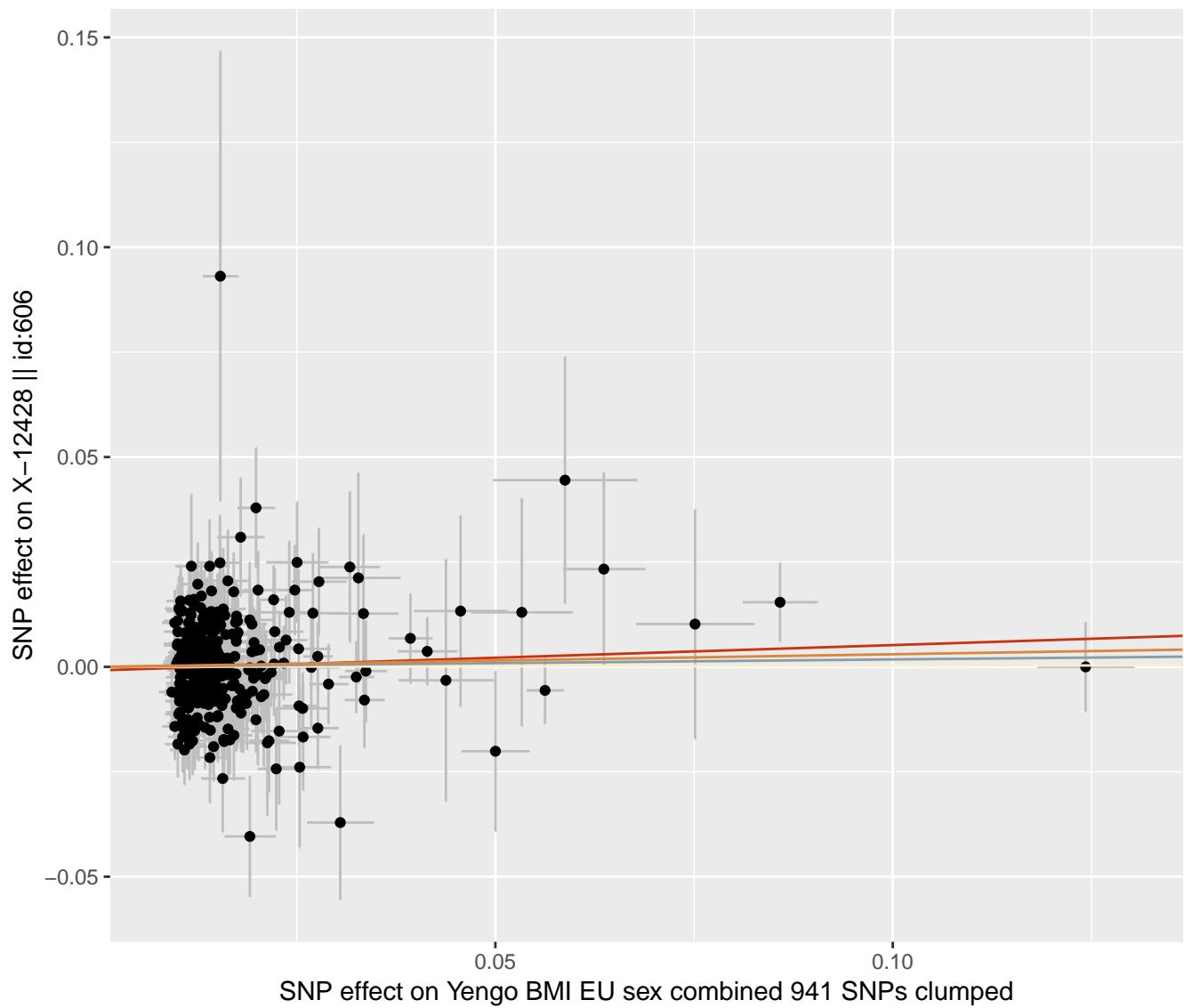
MR Egger



Weighted median

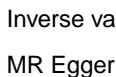


Weighted mode

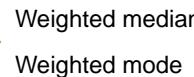


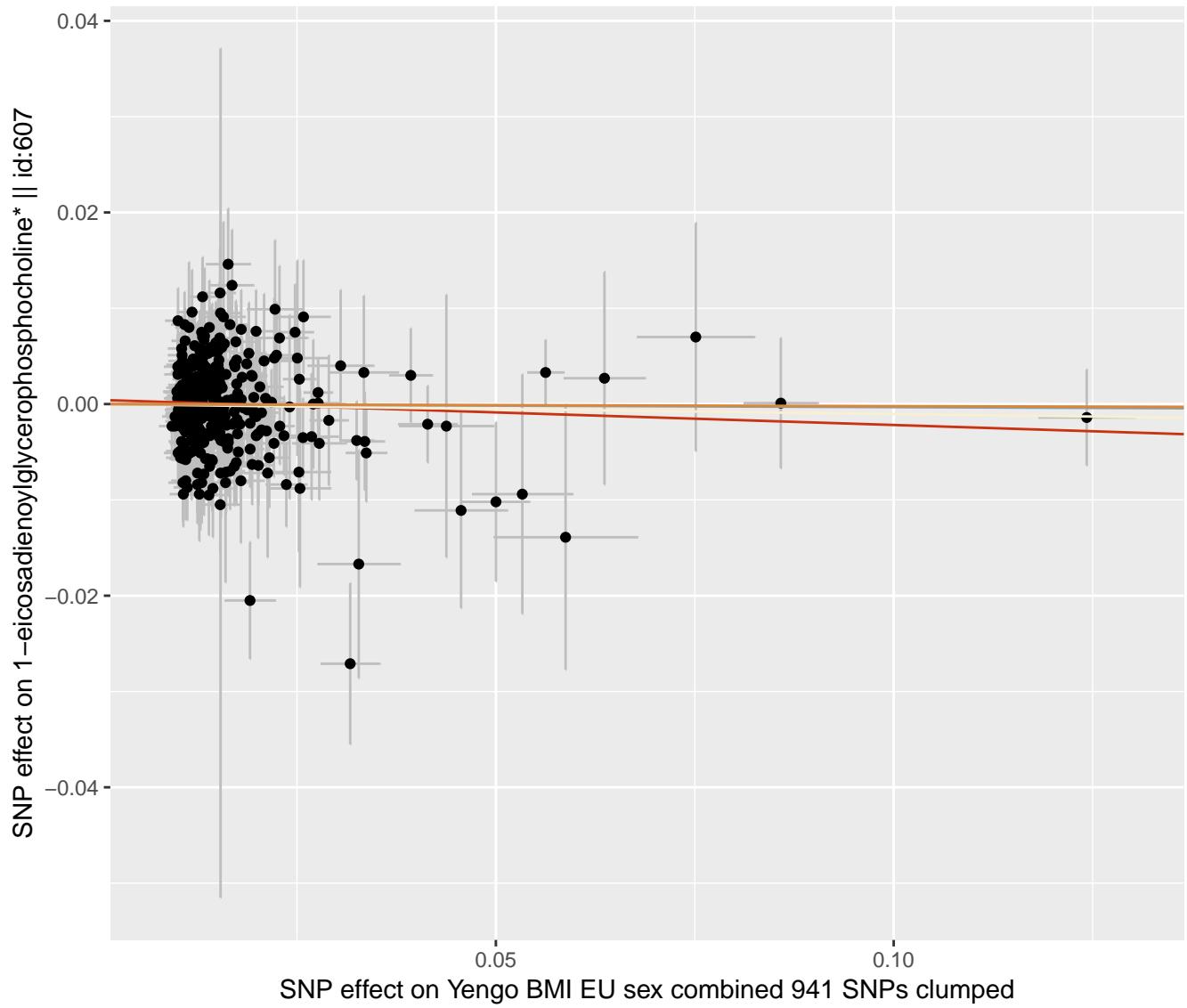
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



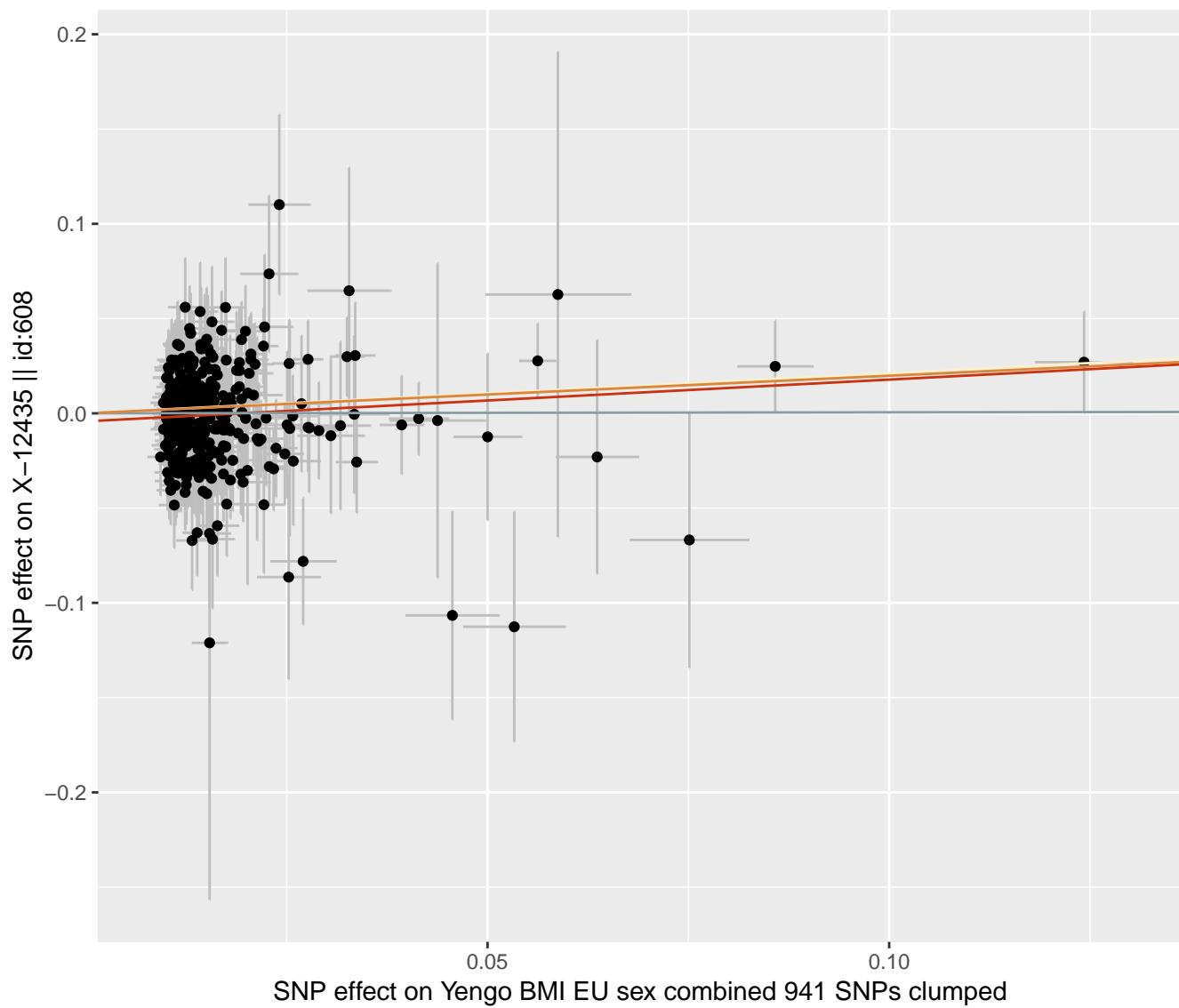
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

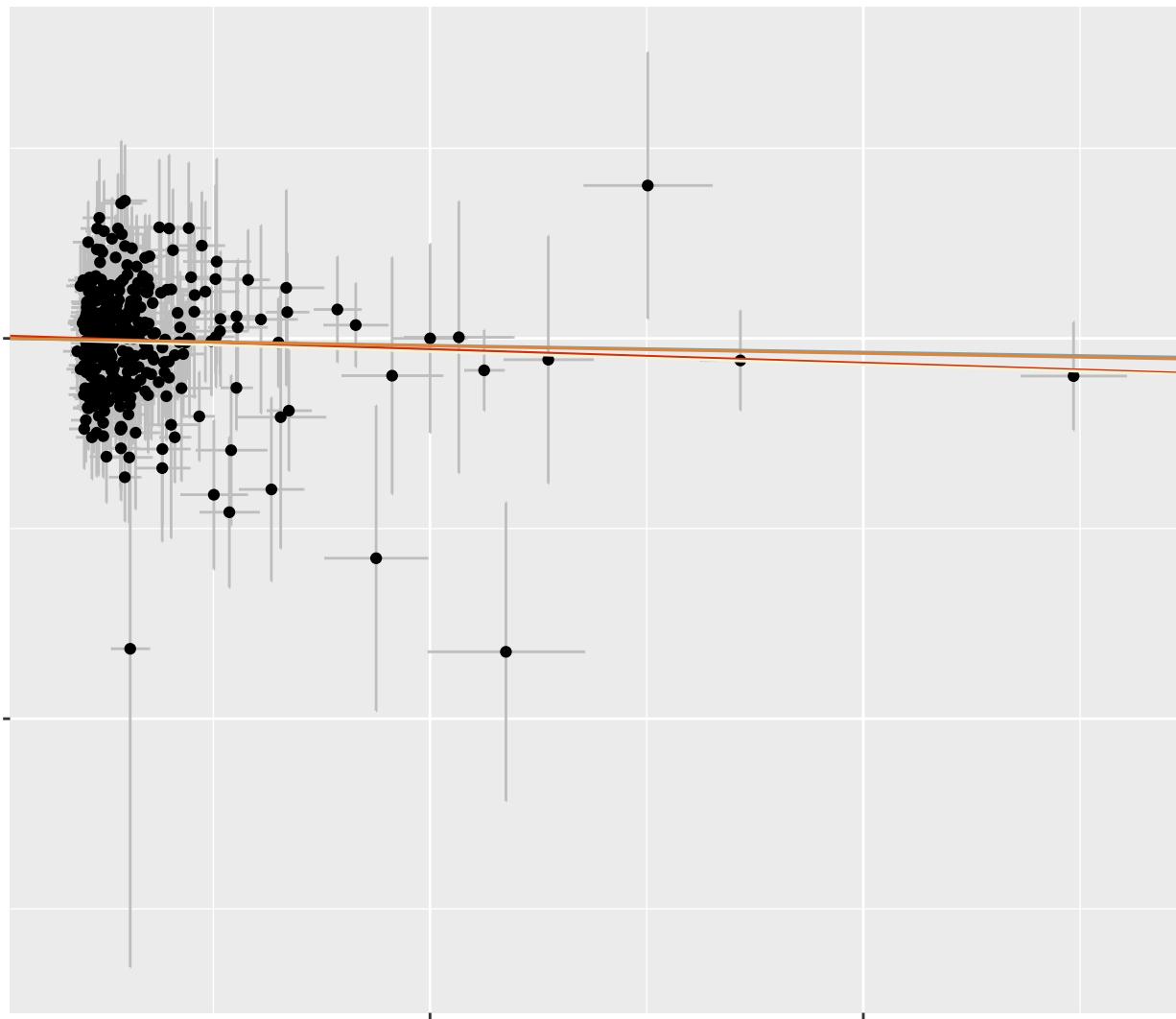


Weighted median



Weighted mode

SNP effect on X-12441--12-hydroxyeicosatetraenoate (12-HETE) || id:609



### MR Test



Inverse variance weighted (multiplicative random effects)



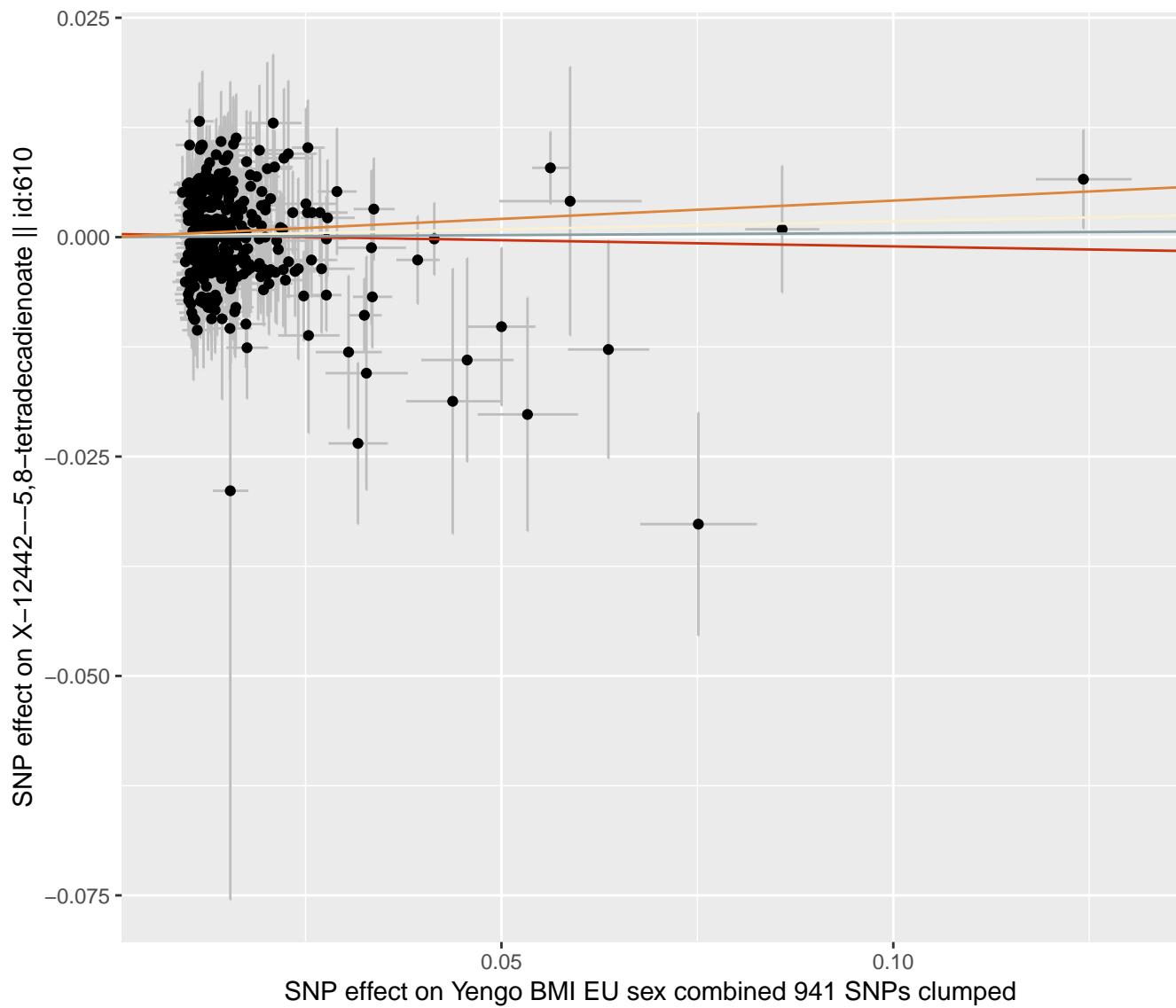
Weighted median



MR Egger



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



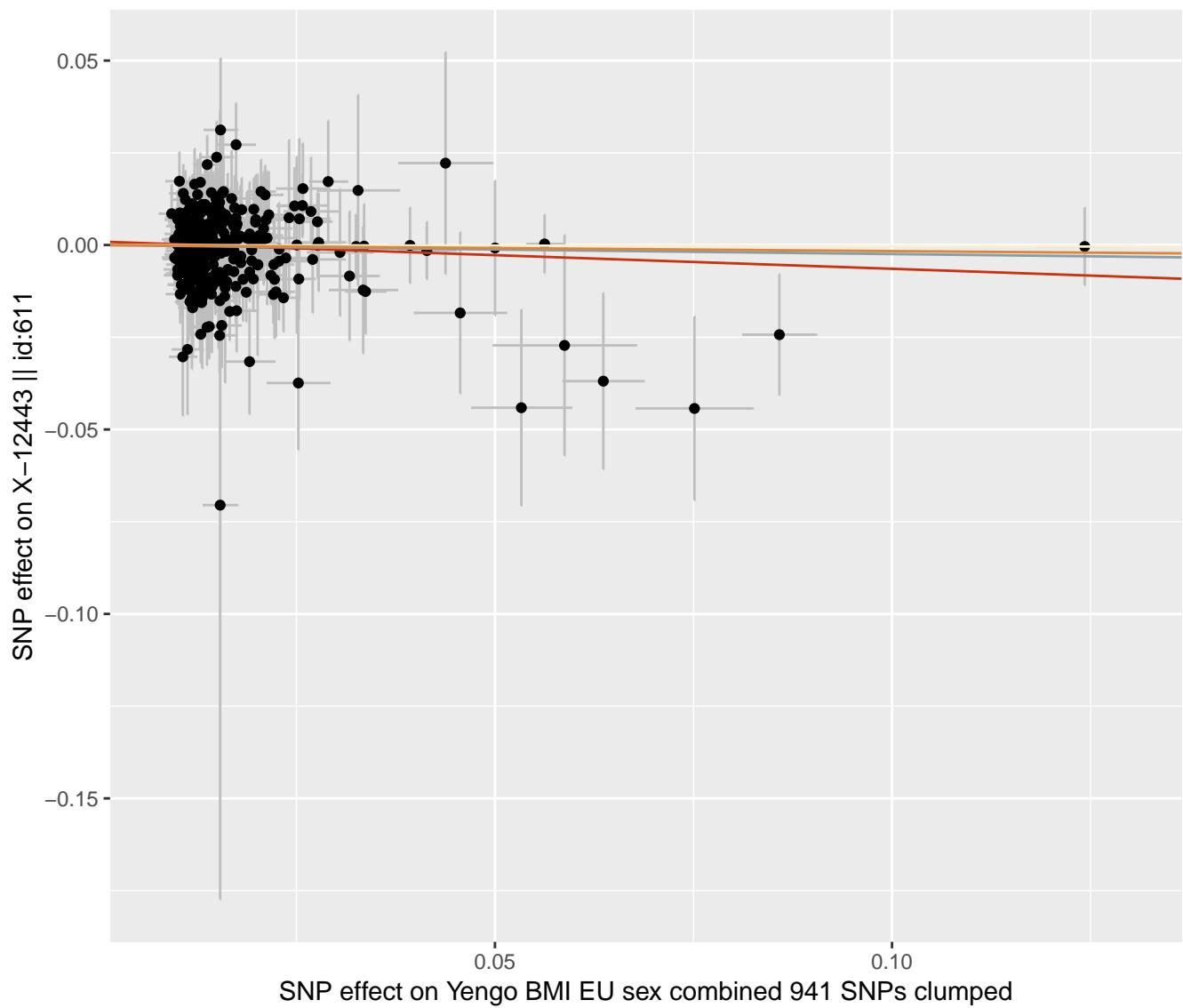
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on X-12450 || id:612

0.05

SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

0.05

0.10

### MR Test



Inverse variance weighted (multiplicative random effects)



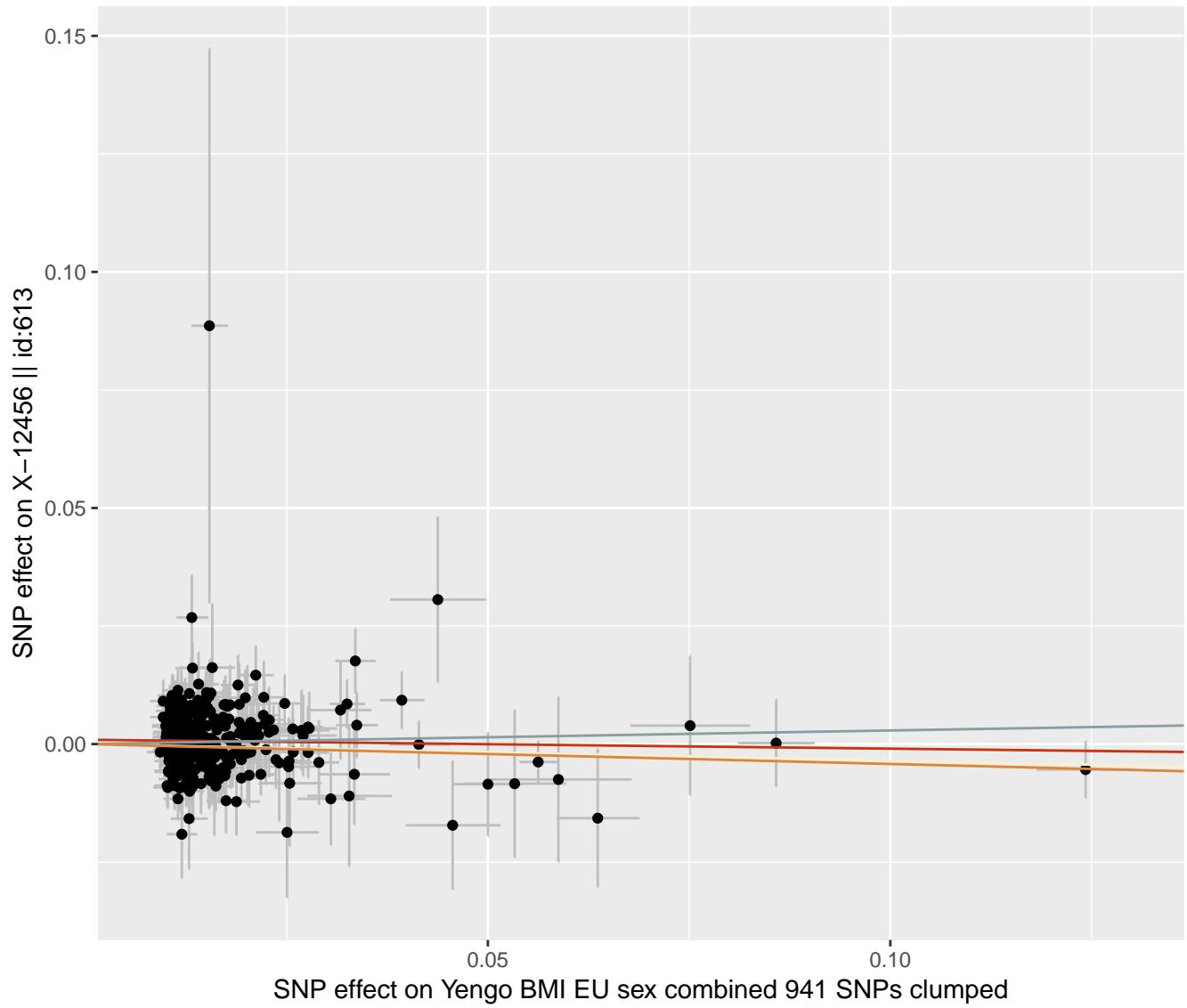
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



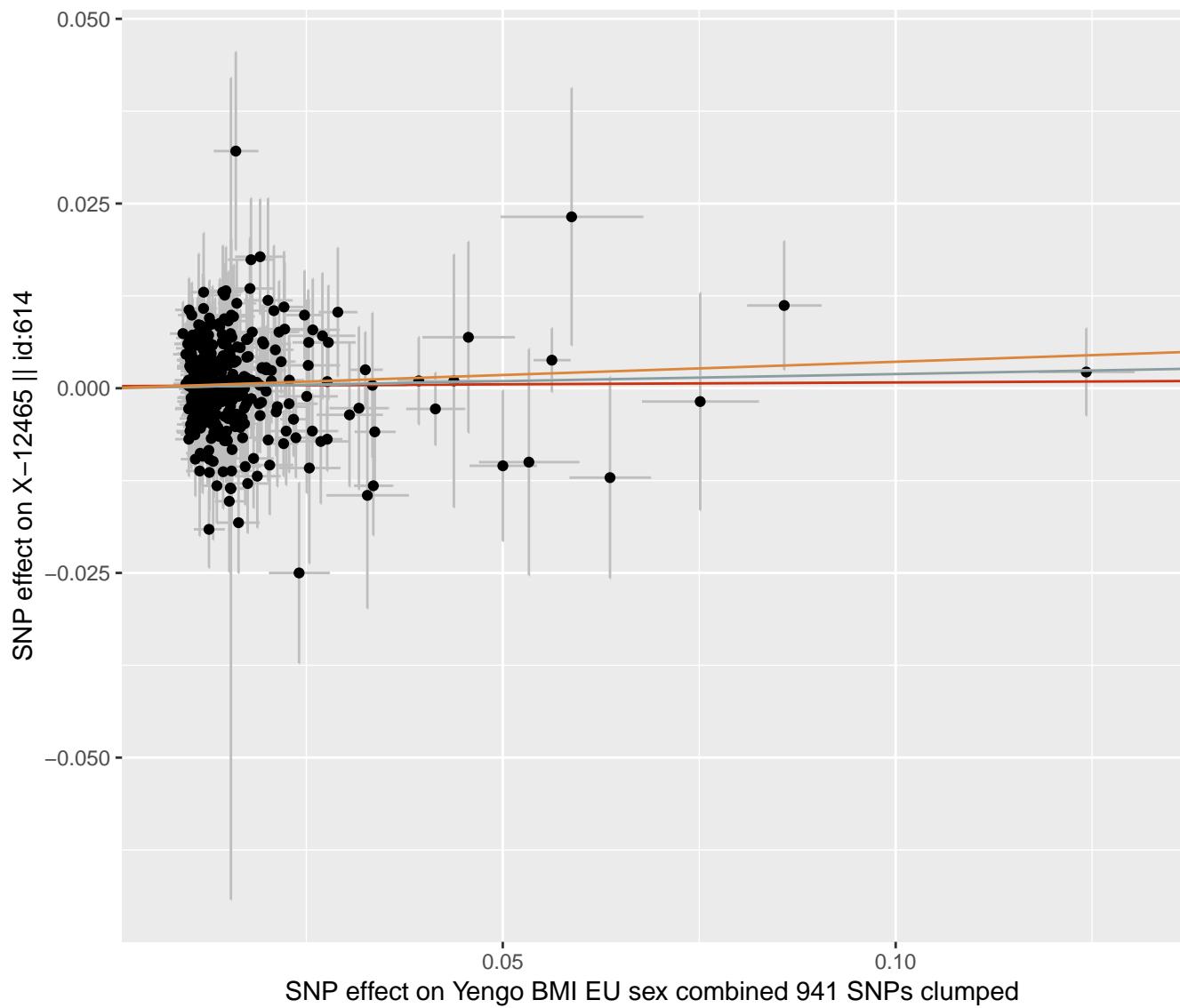
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on Octanoylcarnitine || id:615

0.10

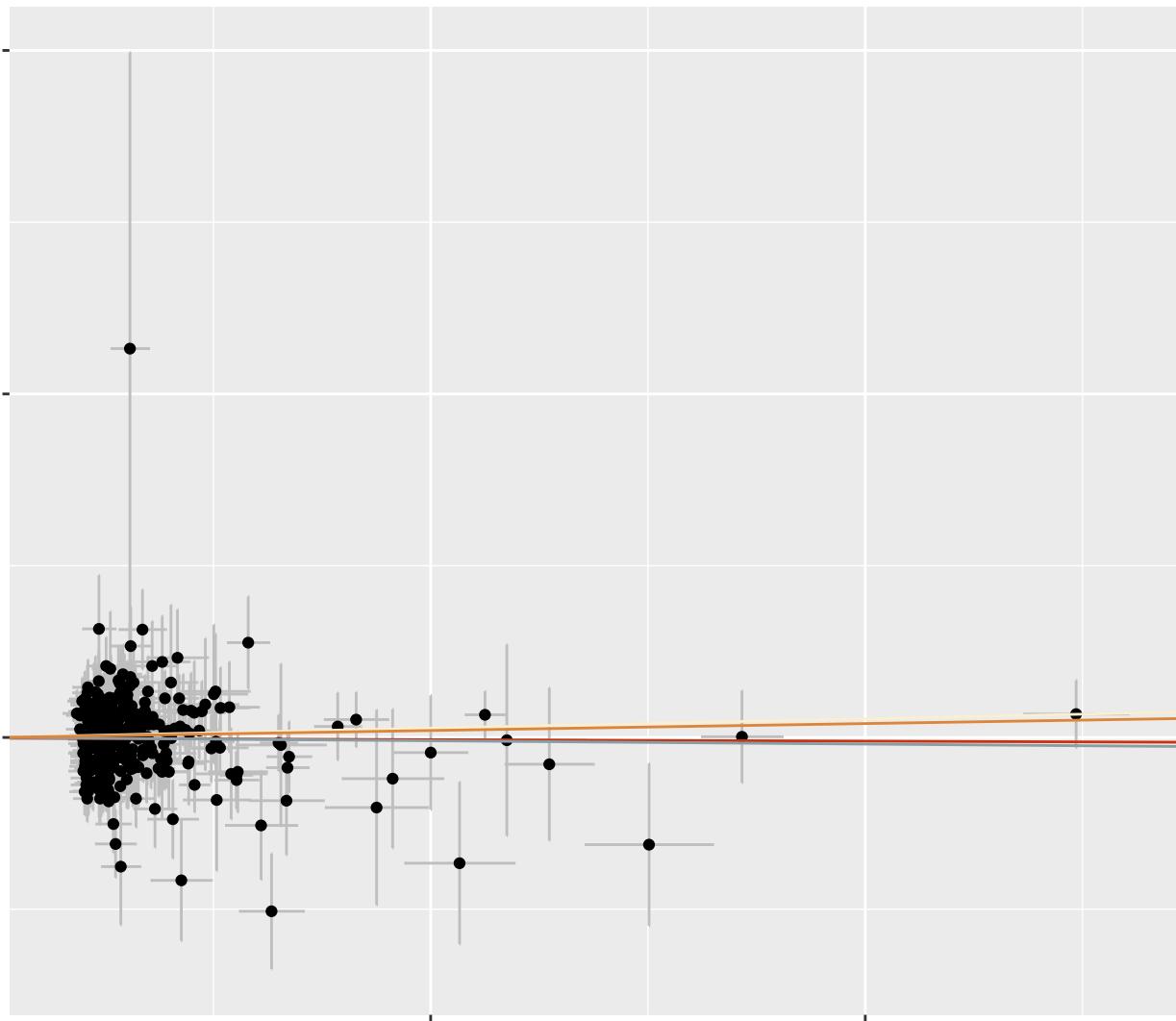
0.05

0.00

0.05

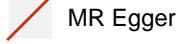
0.10

SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

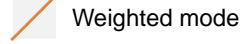


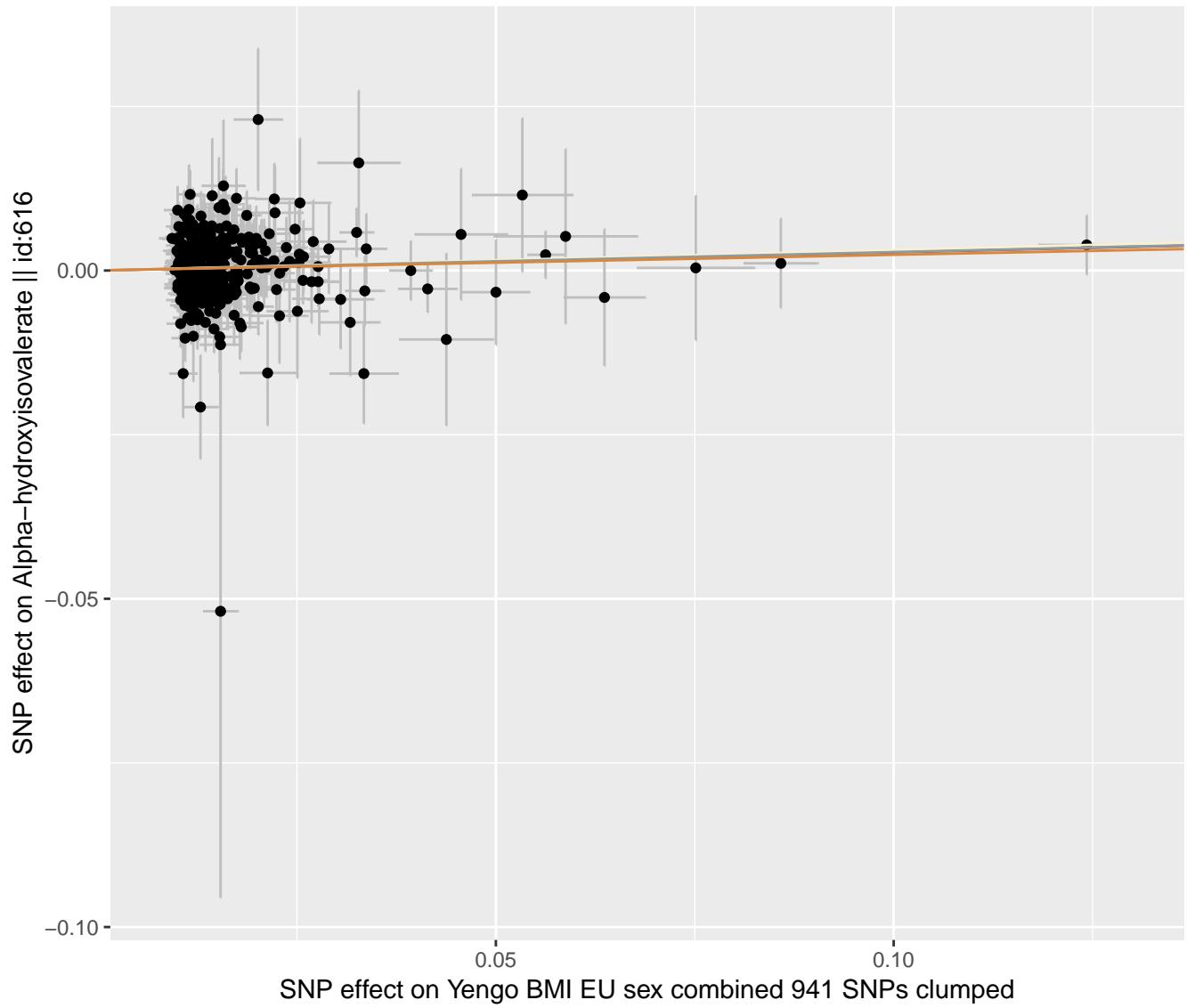
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

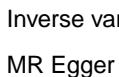
 Weighted median

 Weighted mode



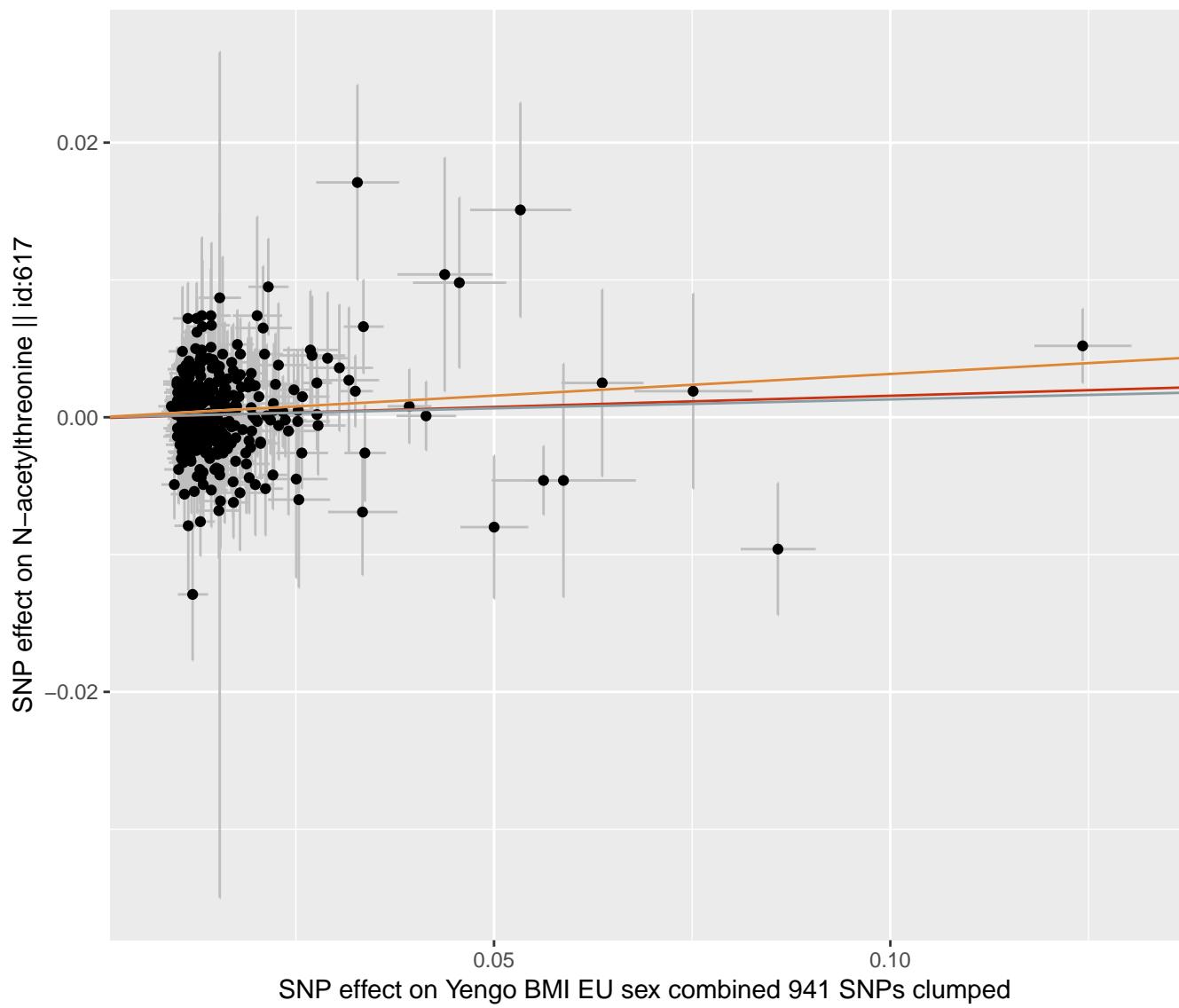
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



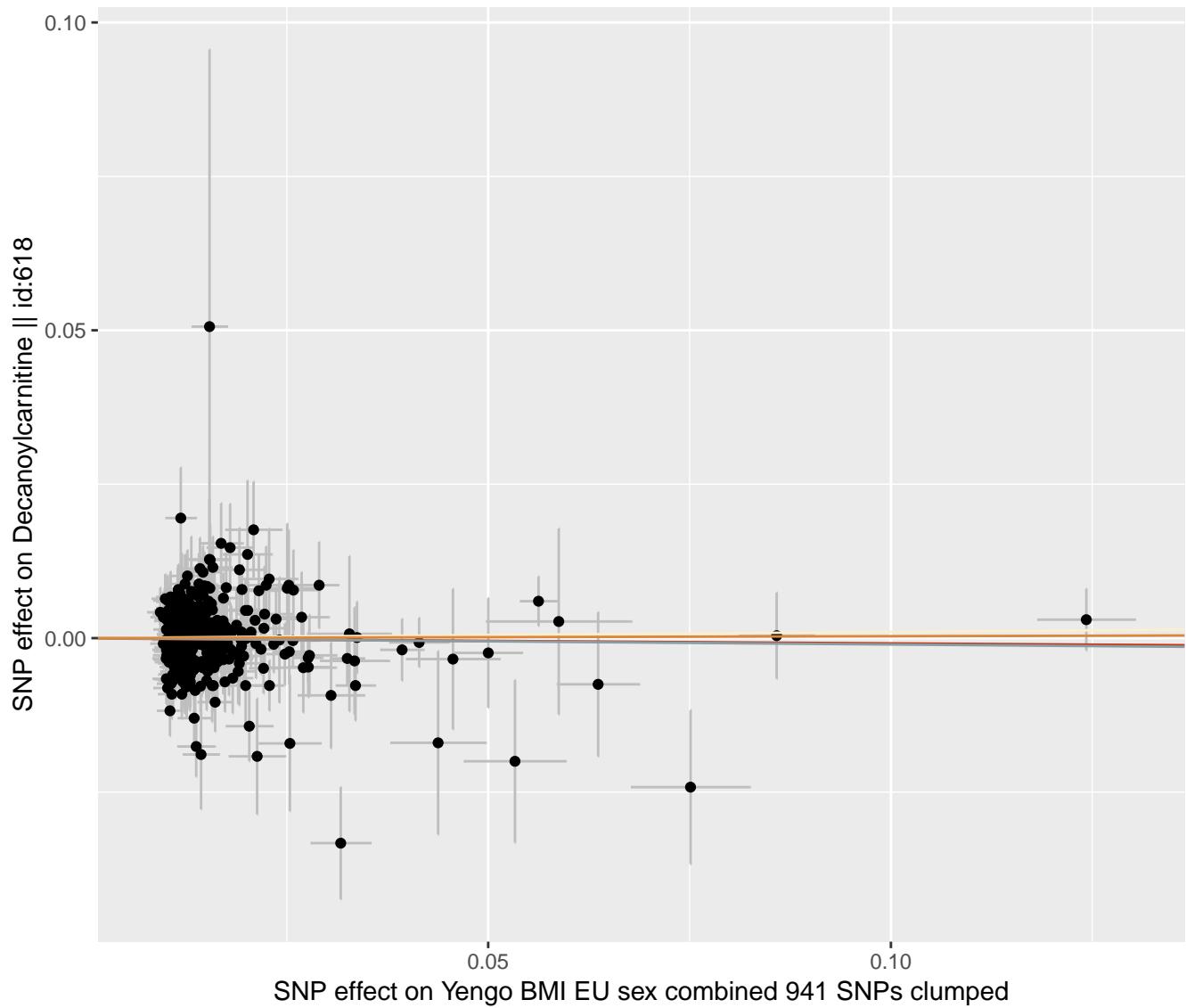
## MR Test

### Inverse variance weighted (multiplicative random effects)

MR Egger

## Weighted median

## Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

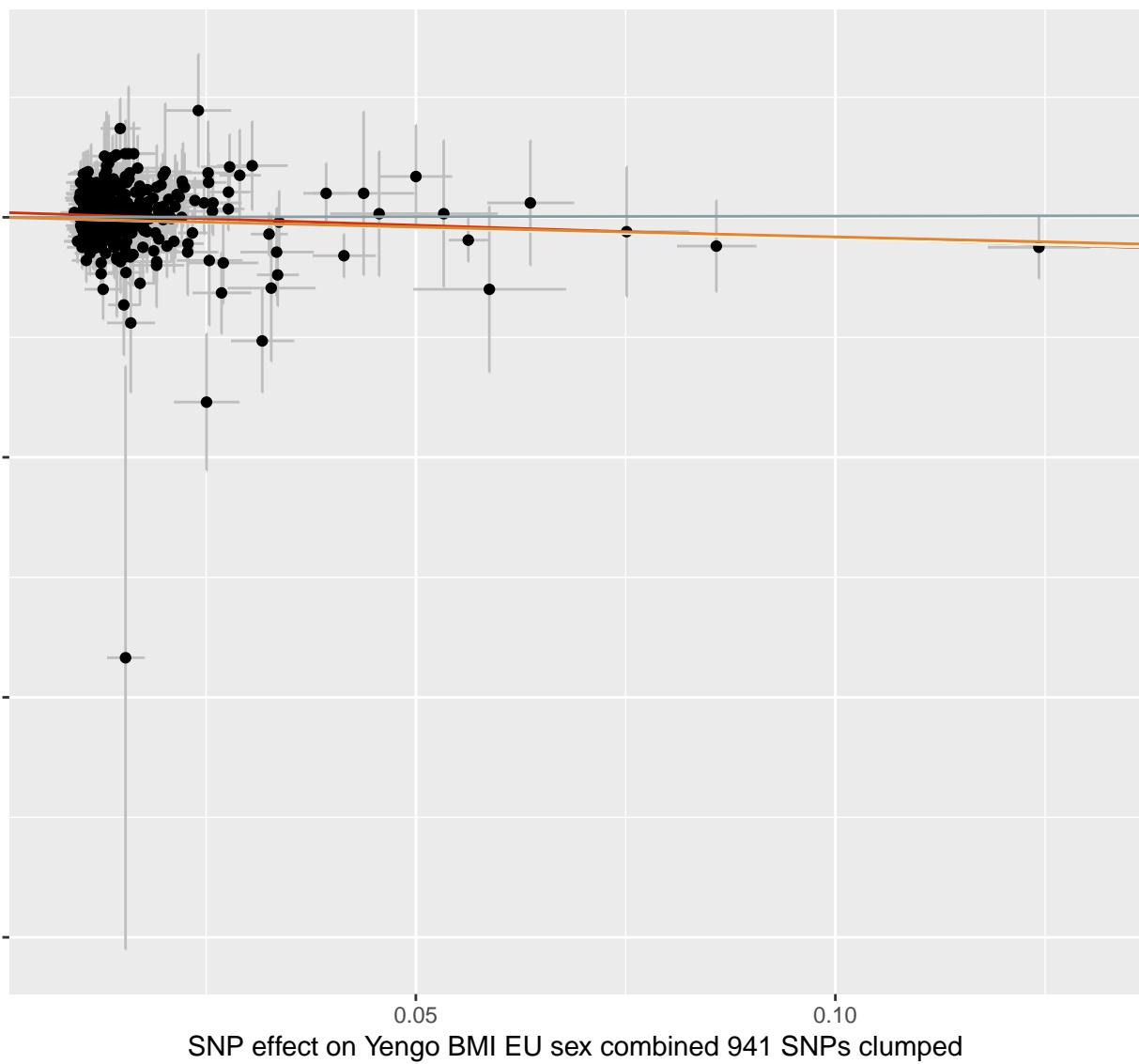


Weighted median



Weighted mode

SNP effect on 1-palmitoylglycerophosphocholine || id:619



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

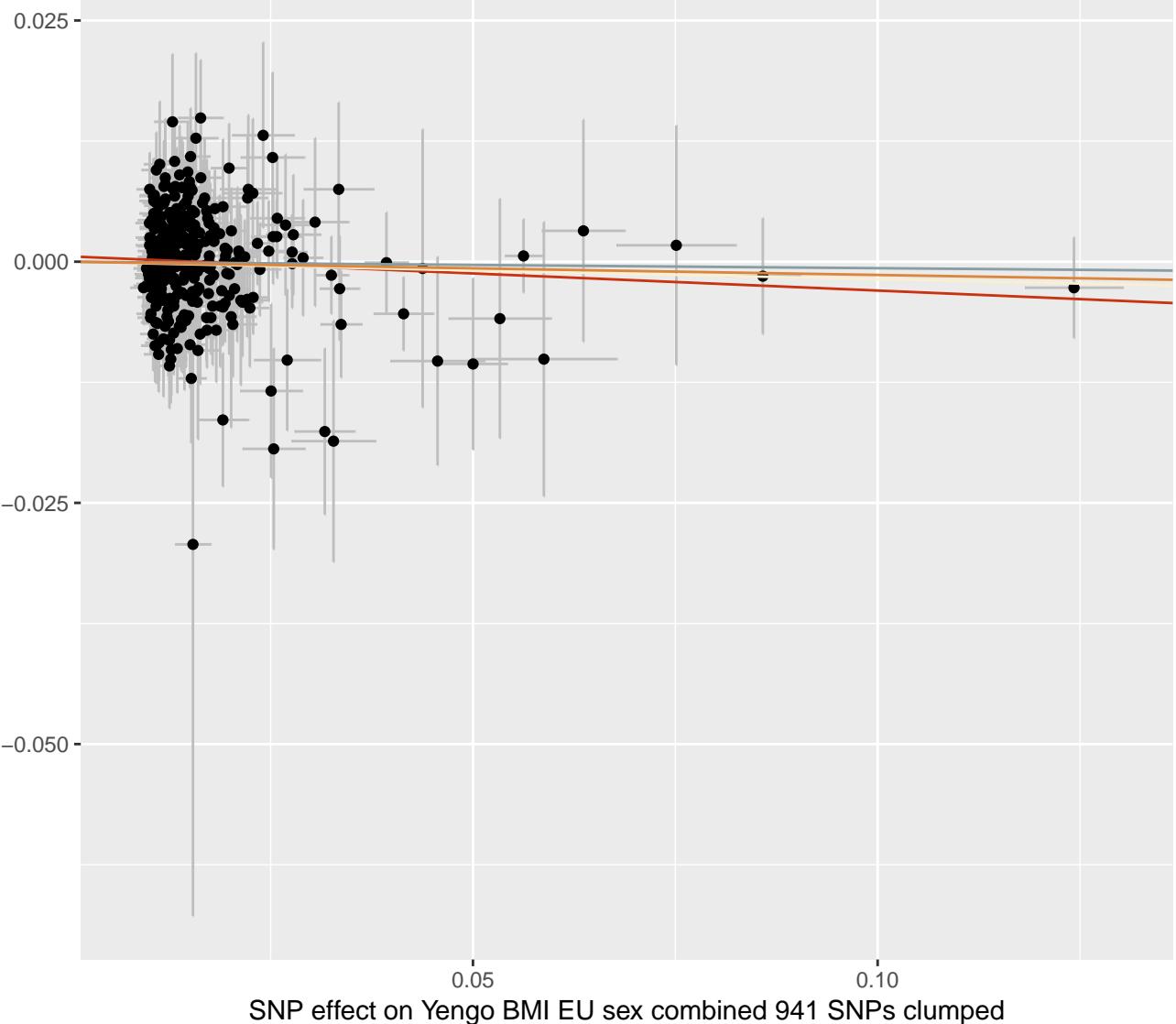


Weighted median



Weighted mode

SNP effect on 1-heptadecanoylglycerophosphocholine || id:620



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

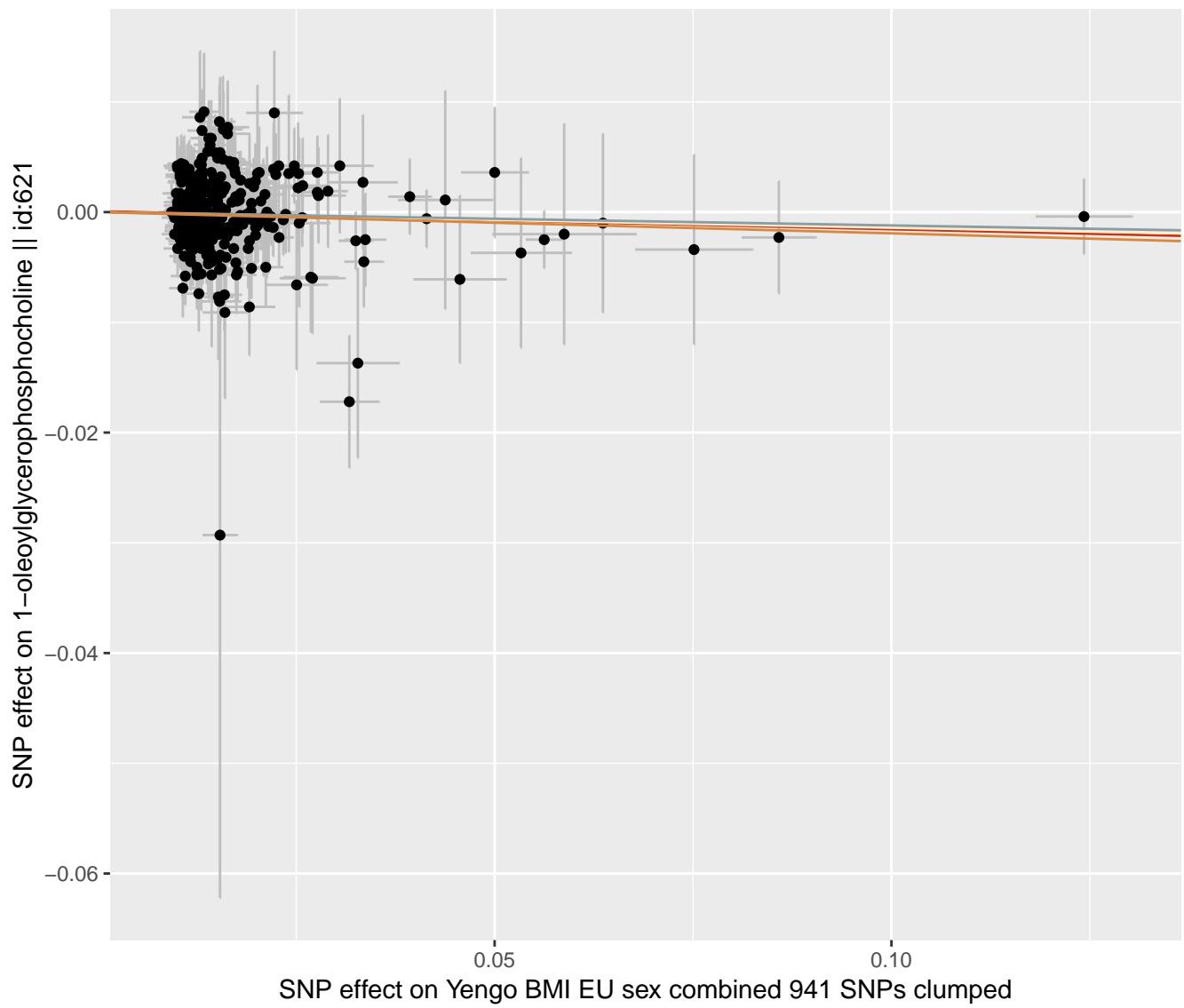
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

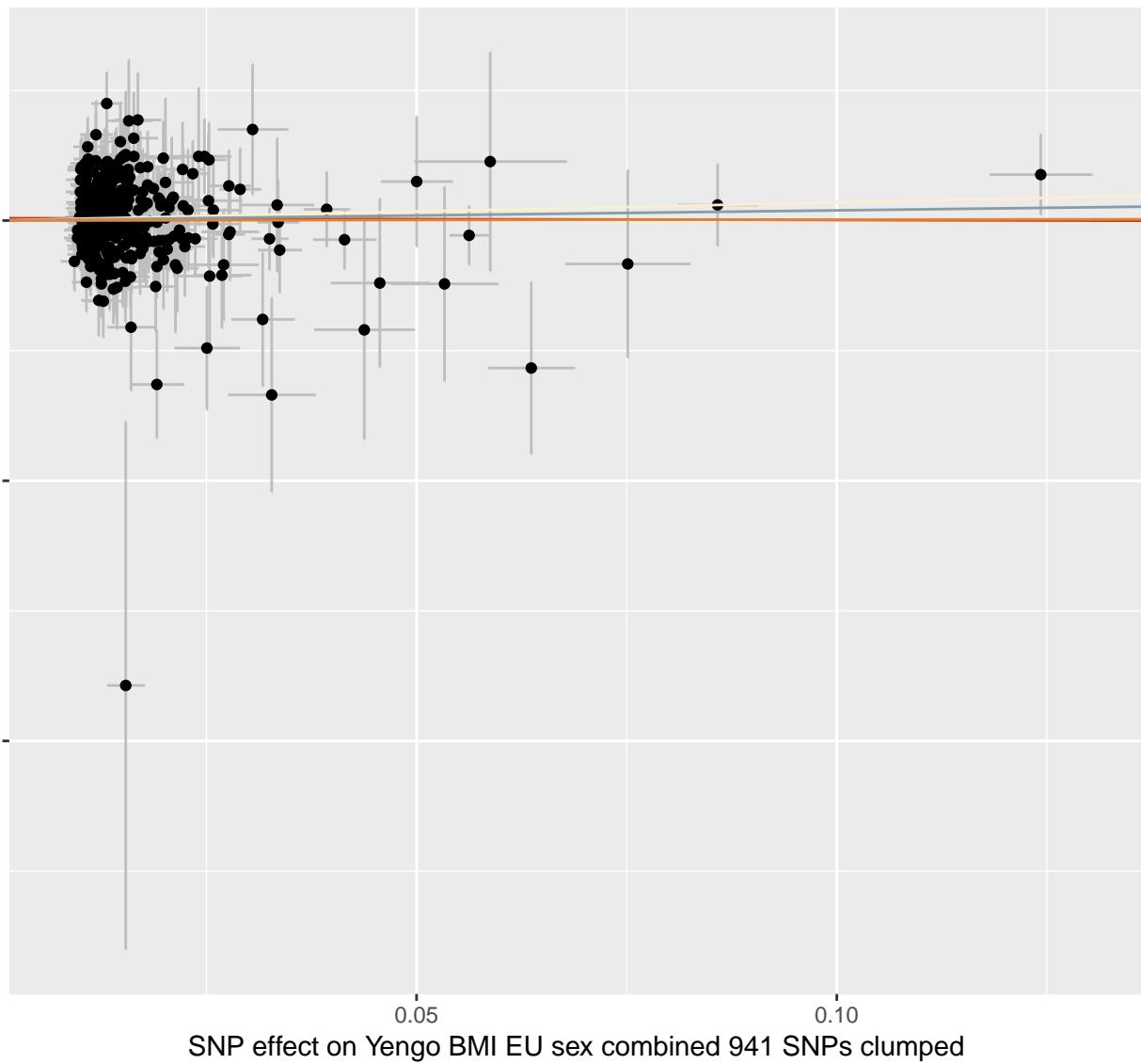


Weighted median



Weighted mode

SNP effect on 1-stearoylglycerophosphocholine || id:622



### MR Test



Inverse variance weighted (multiplicative random effects)



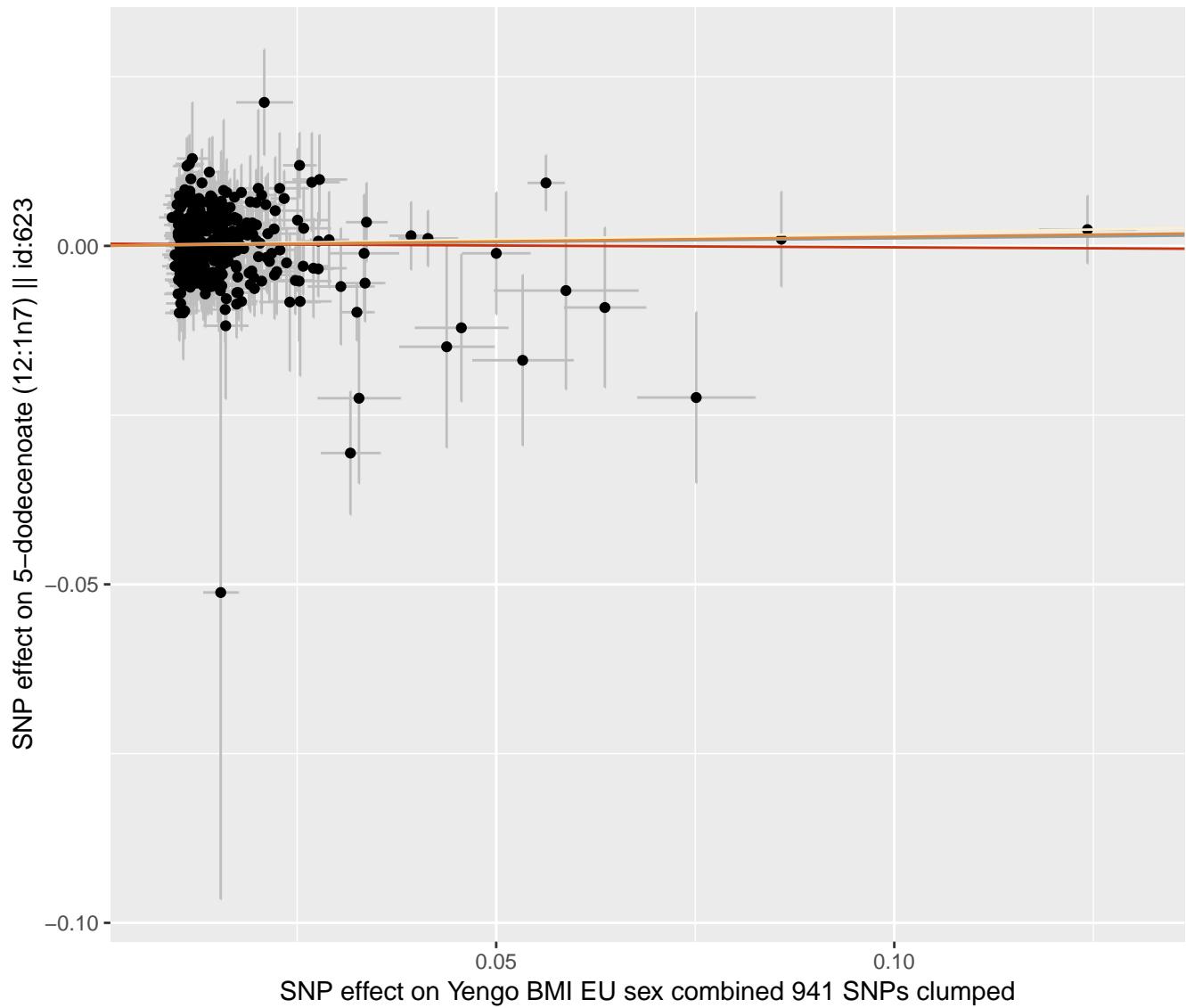
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



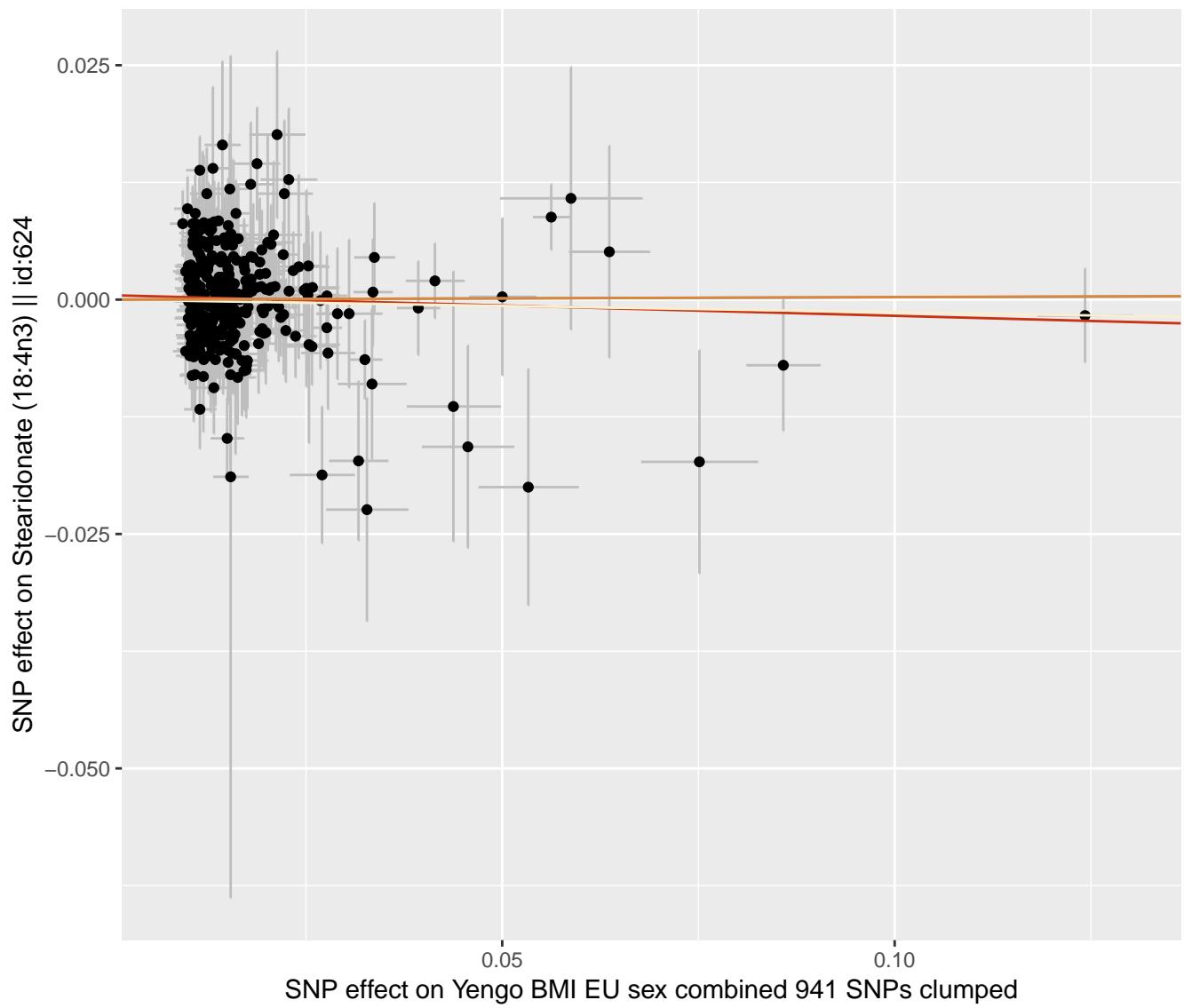
MR Egger



Weighted median



Weighted mode



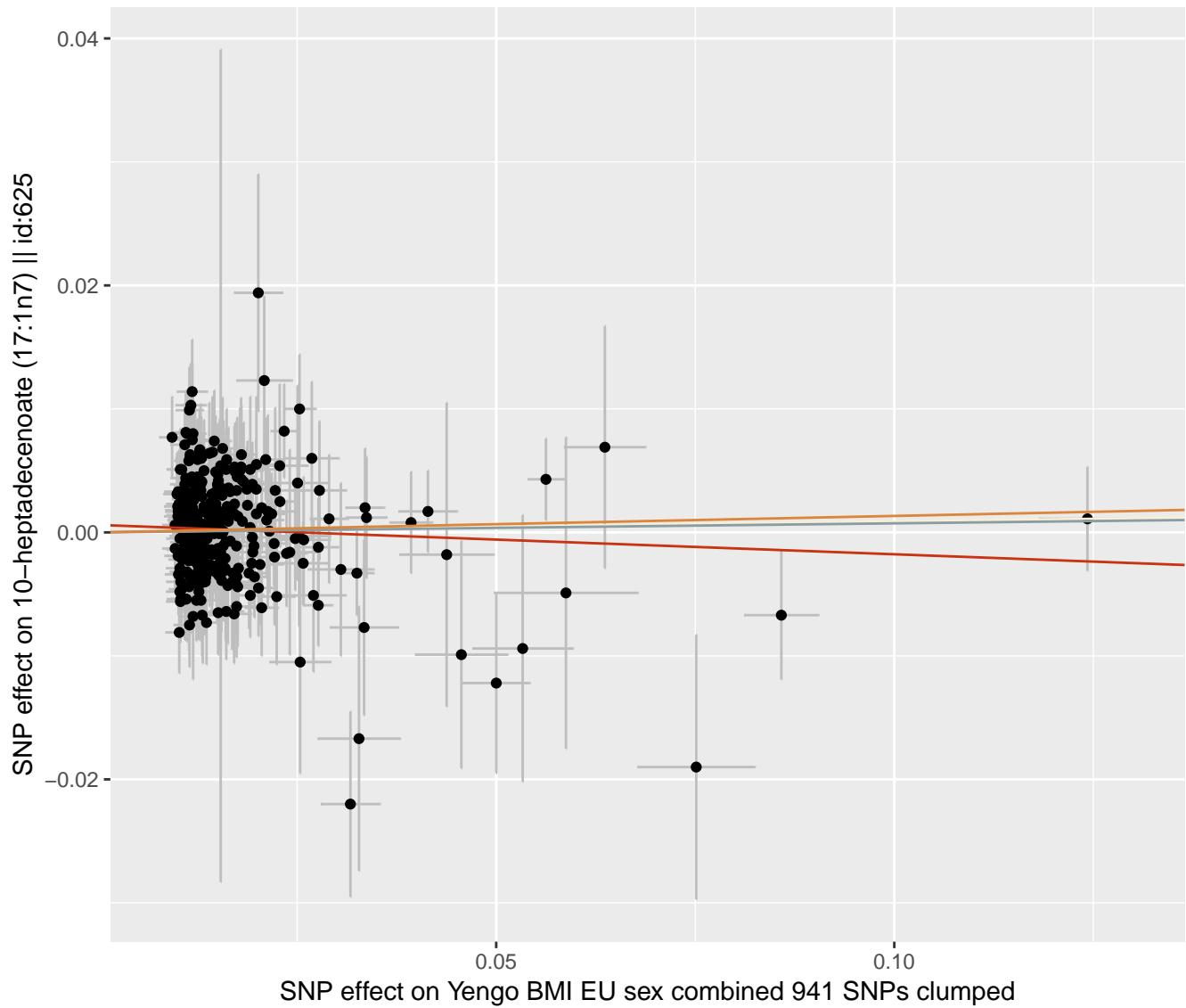
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



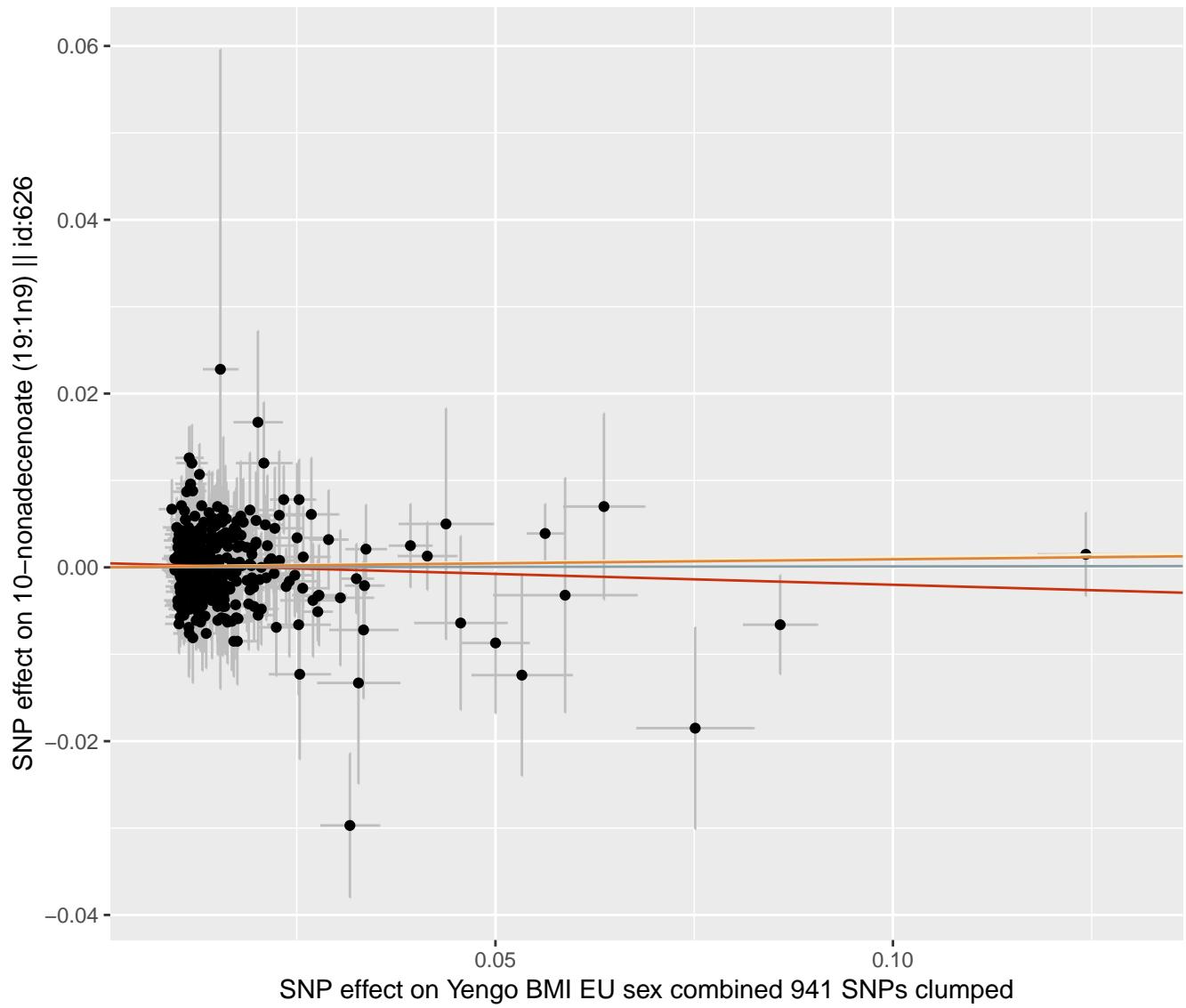
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



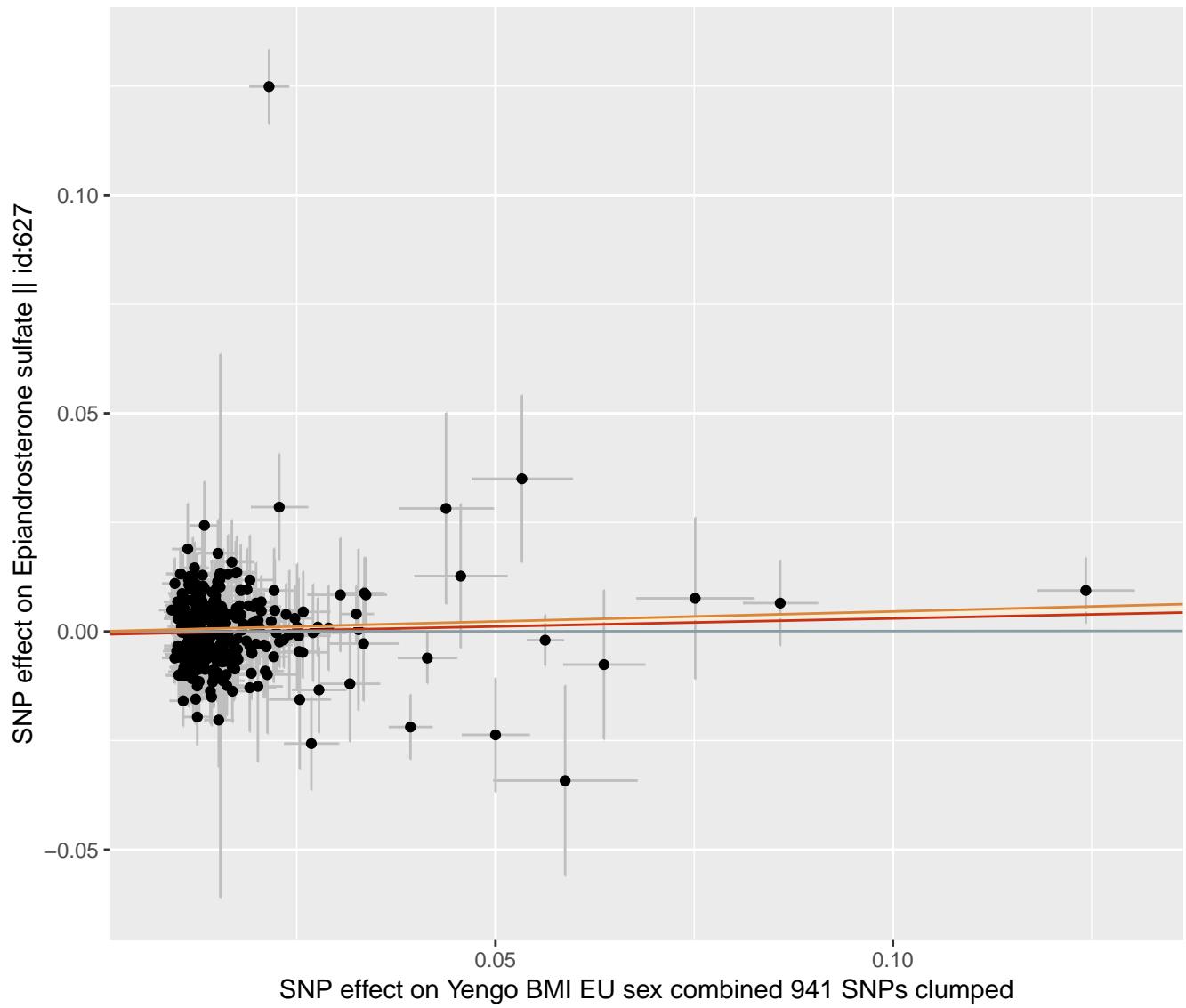
MR Egger



Weighted median

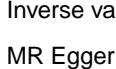


Weighted mode



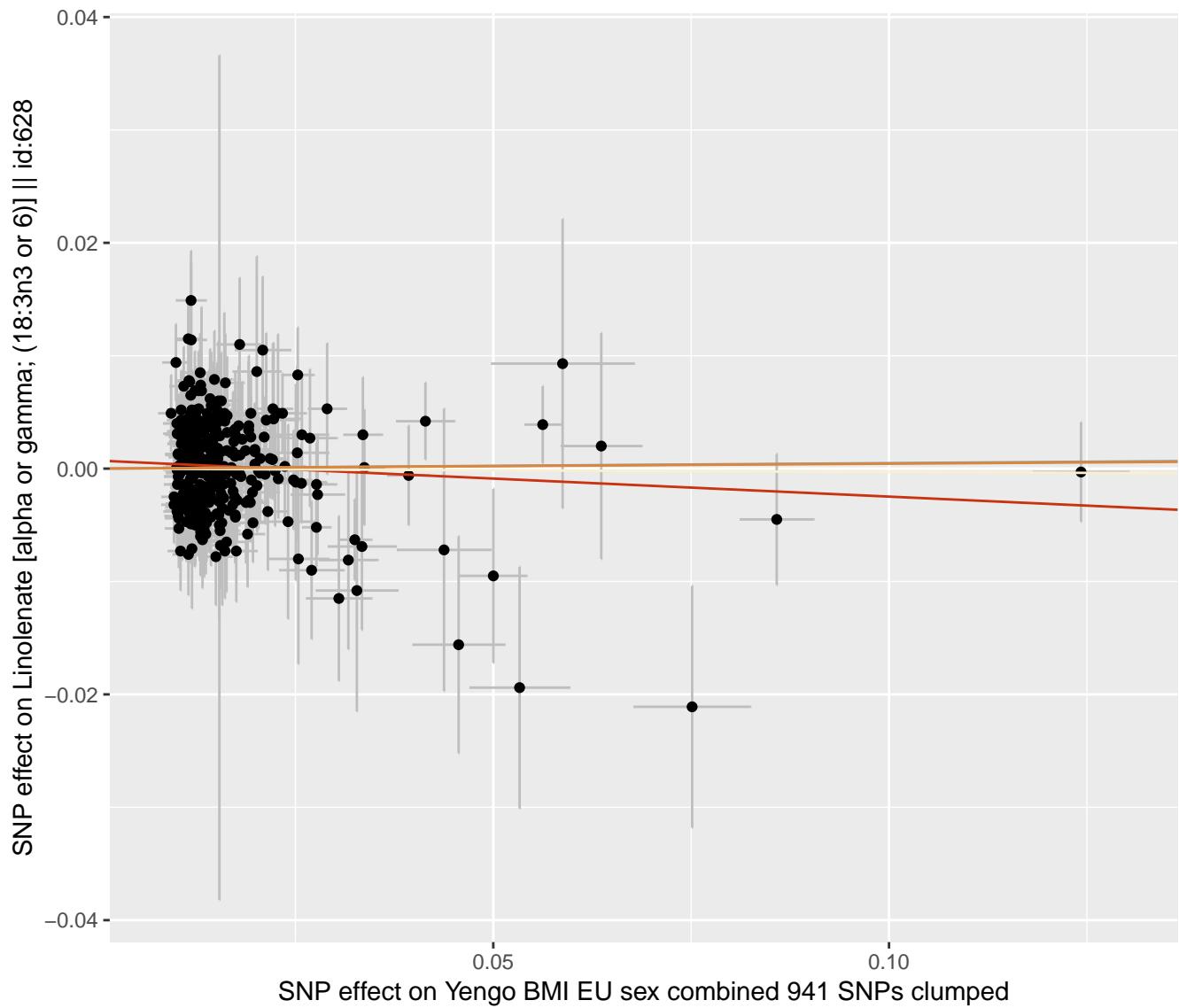
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

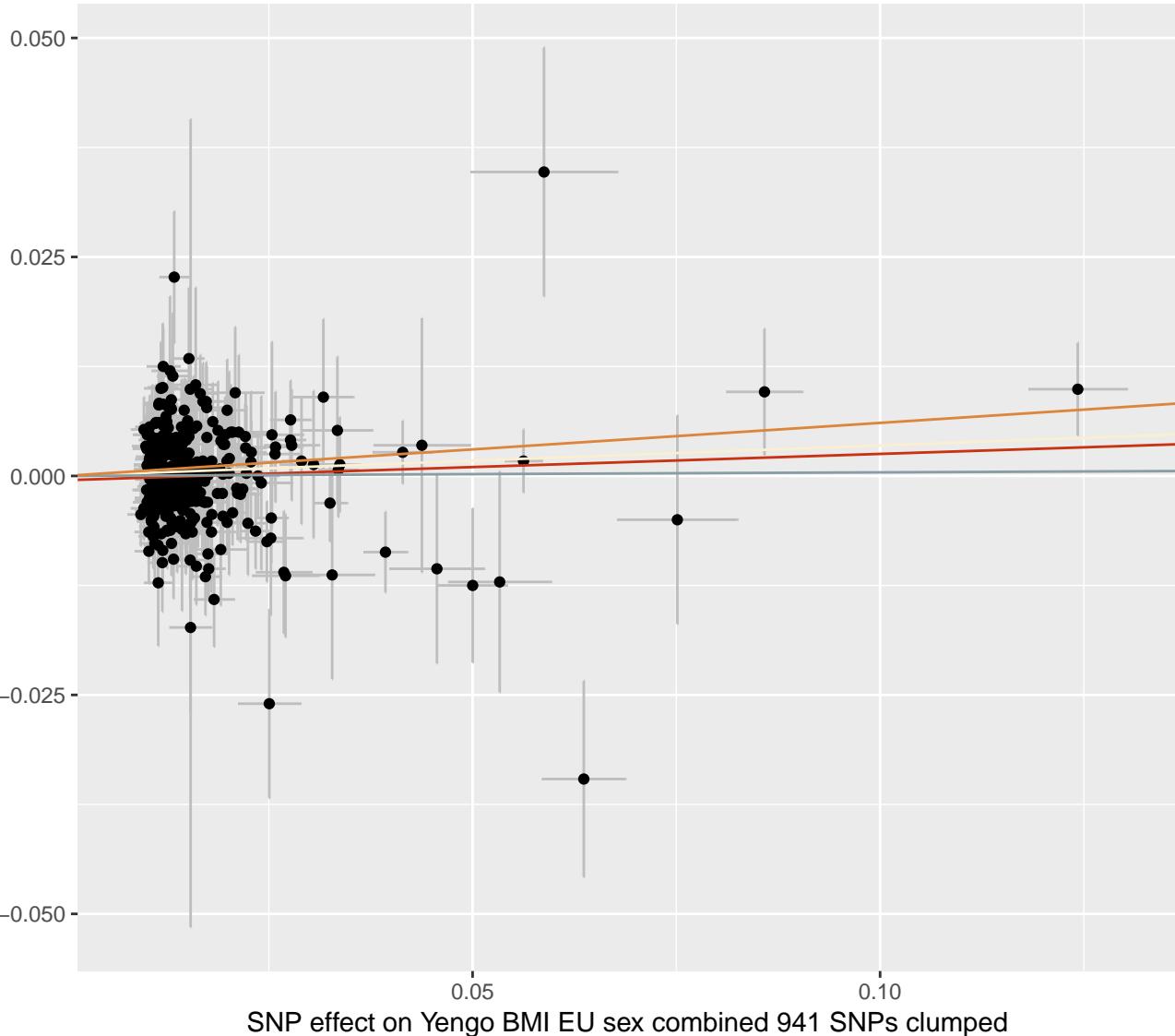


Weighted median



Weighted mode

SNP effect on X-12510--2-aminoctanoic acid || id:629



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

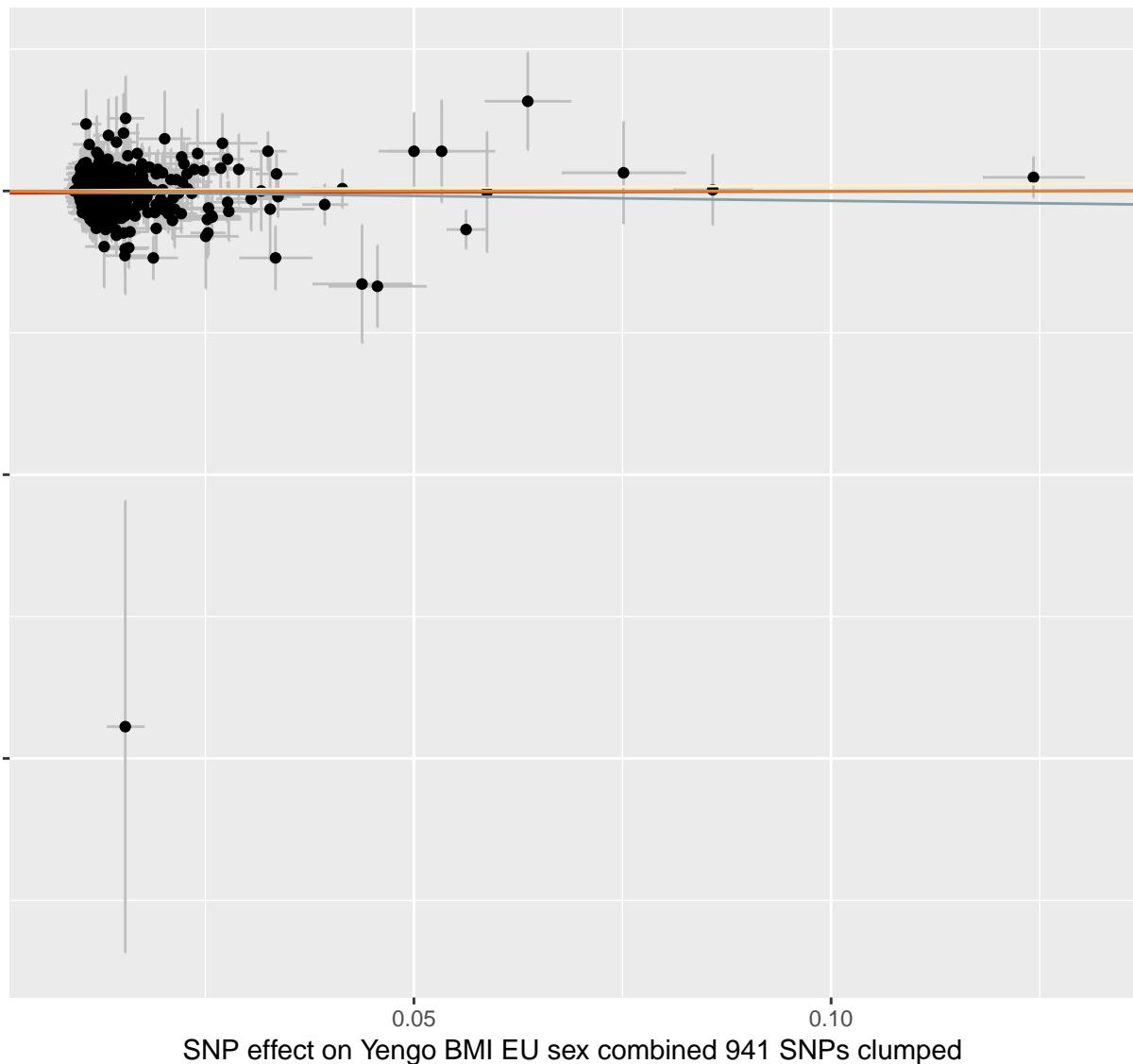


Weighted median



Weighted mode

SNP effect on X-12524 || id:630



### MR Test



Inverse variance weighted (multiplicative random effects)



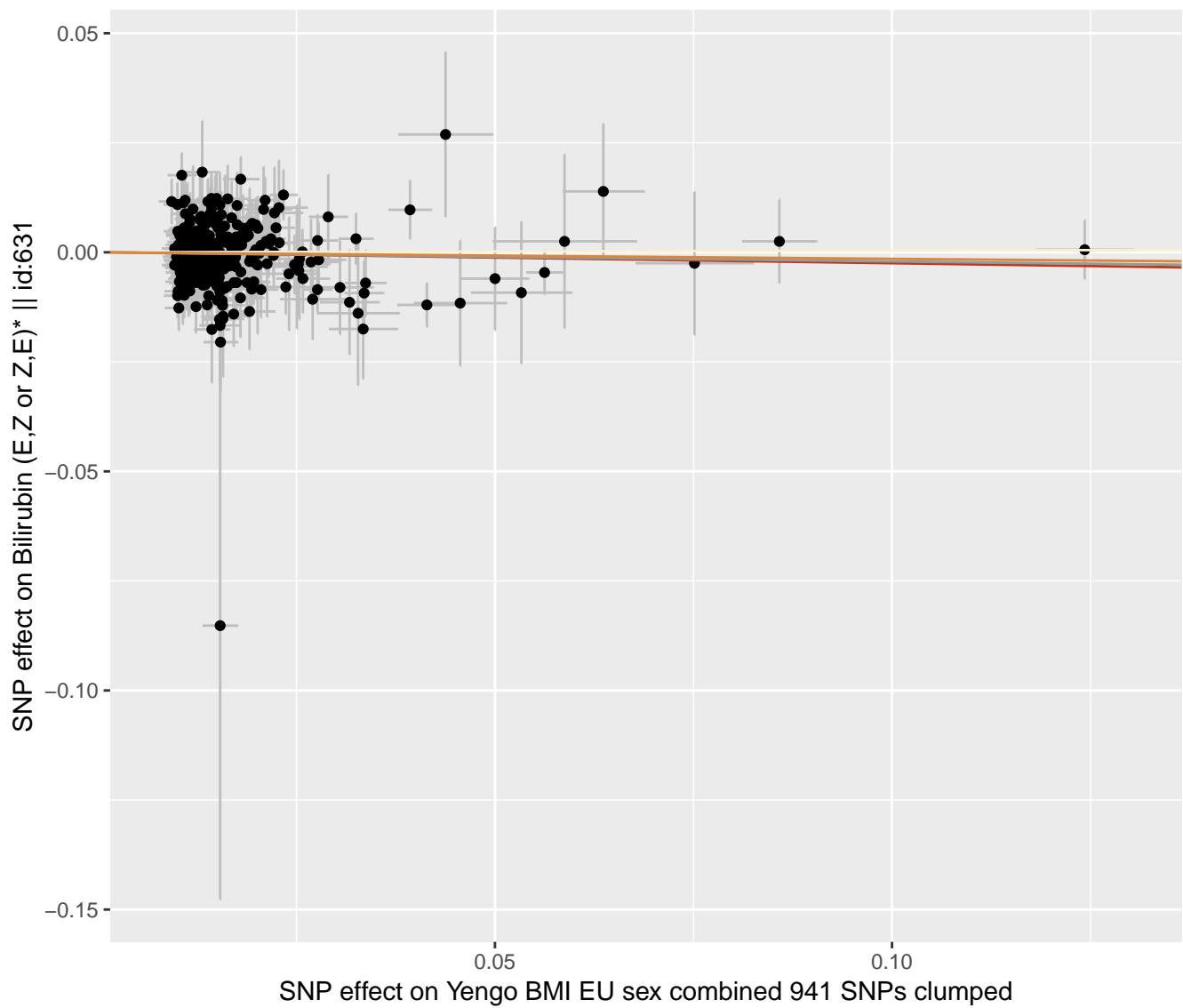
MR Egger



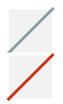
Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



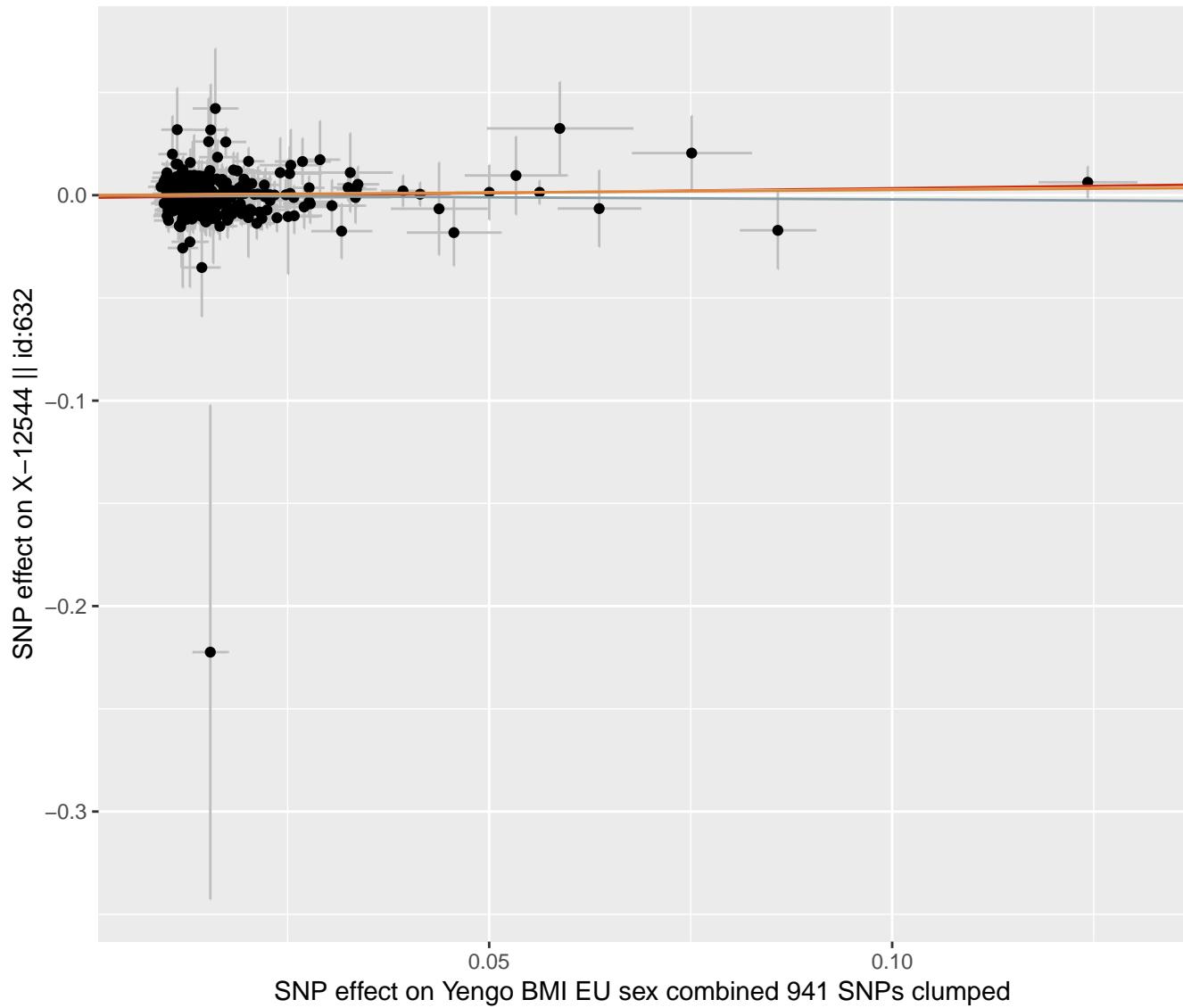
MR Egger



Weighted median

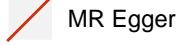


Weighted mode

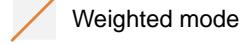


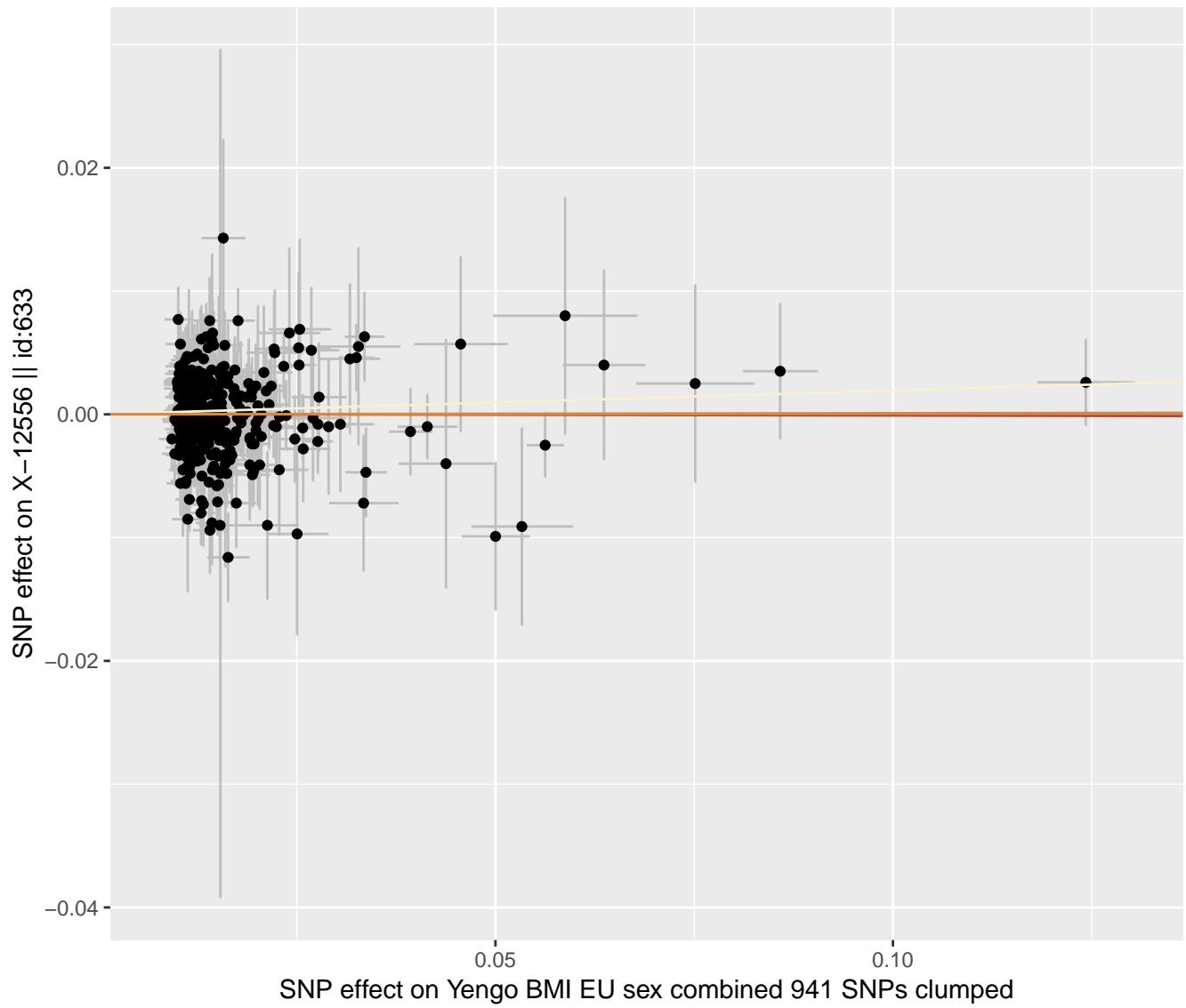
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

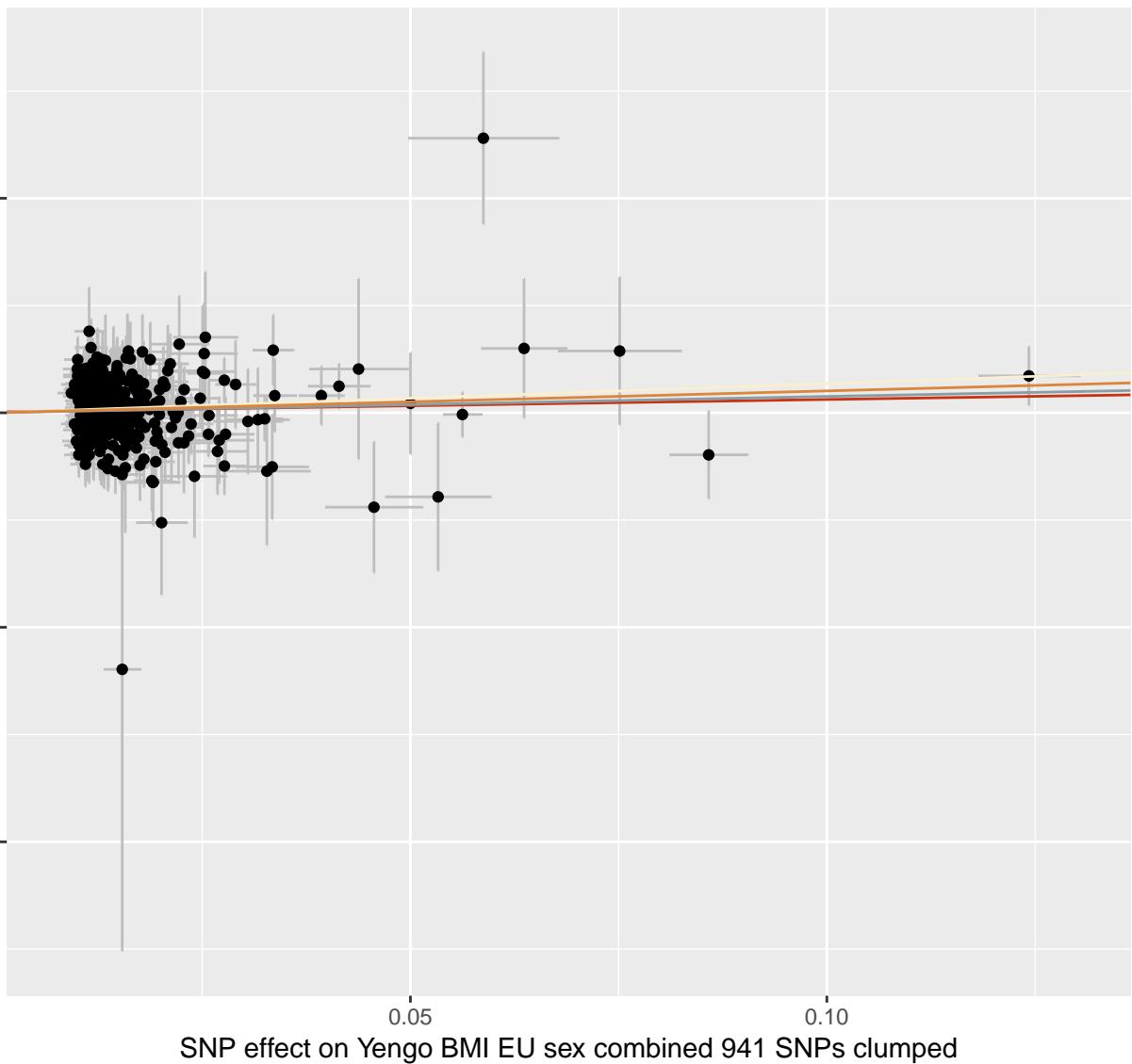


Weighted median



Weighted mode

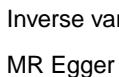
SNP effect on 1-arachidonoylglycerophosphoinositol\* || id:634



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

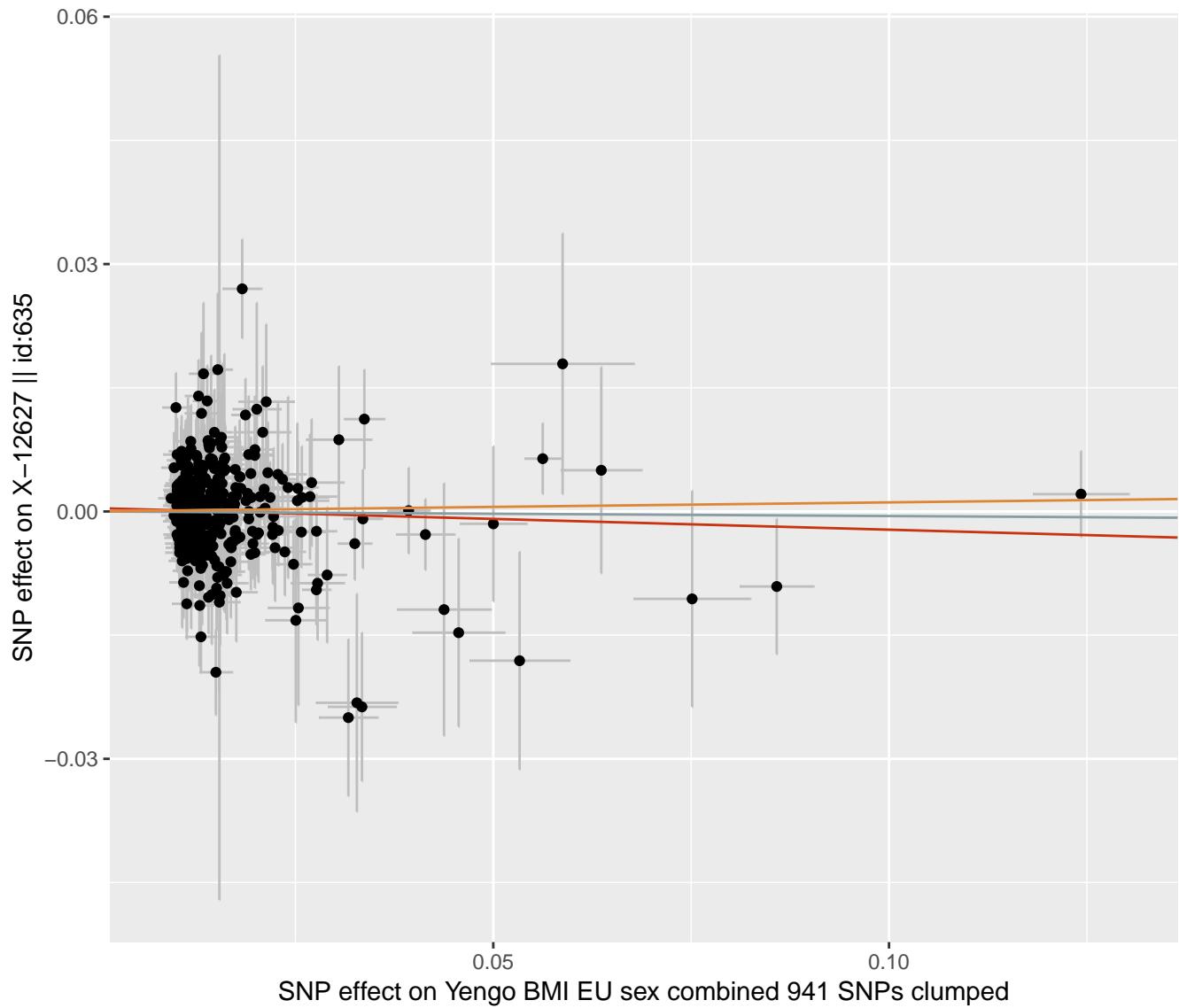
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



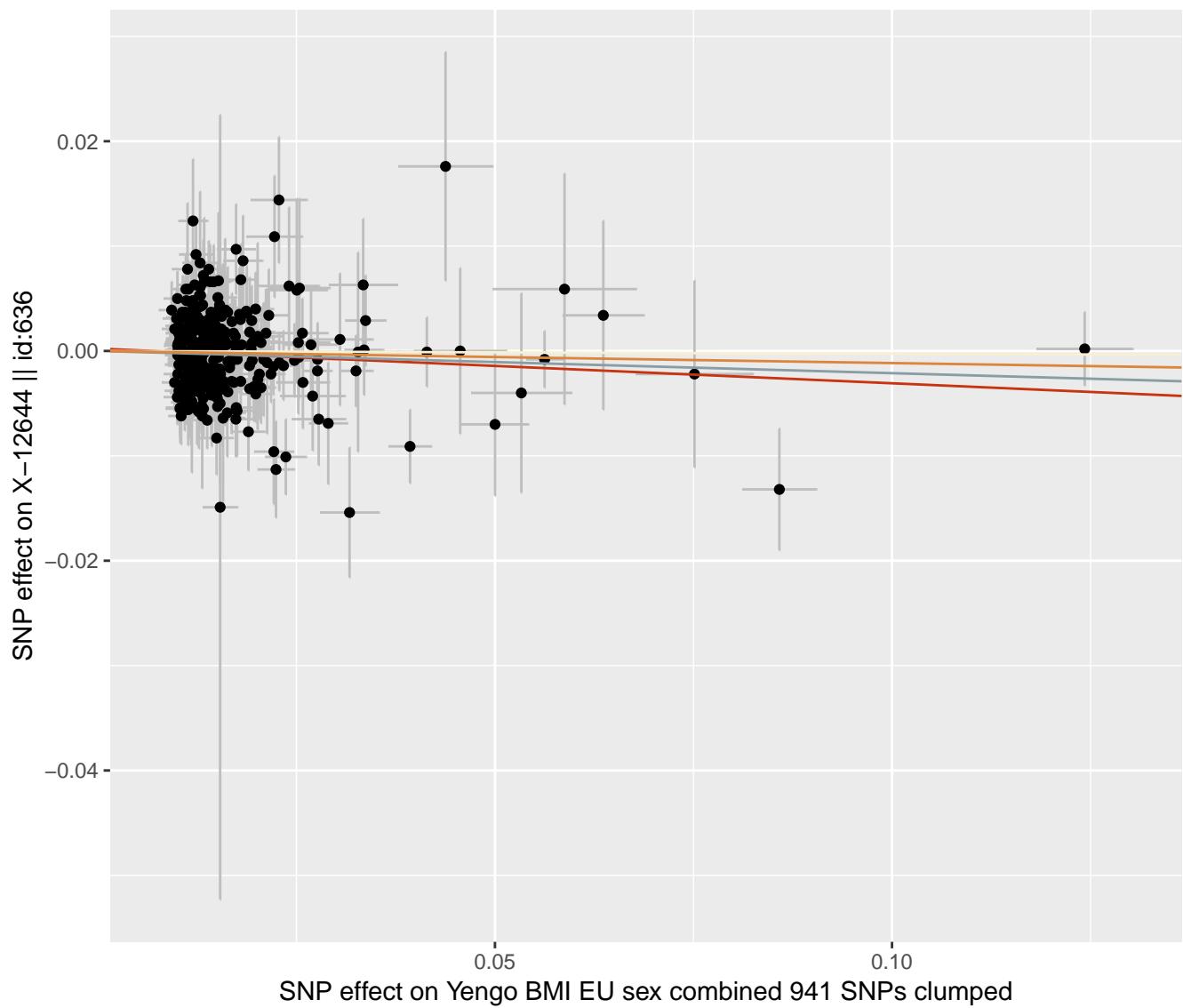
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on X-12645 || id:637

0.08

0.04

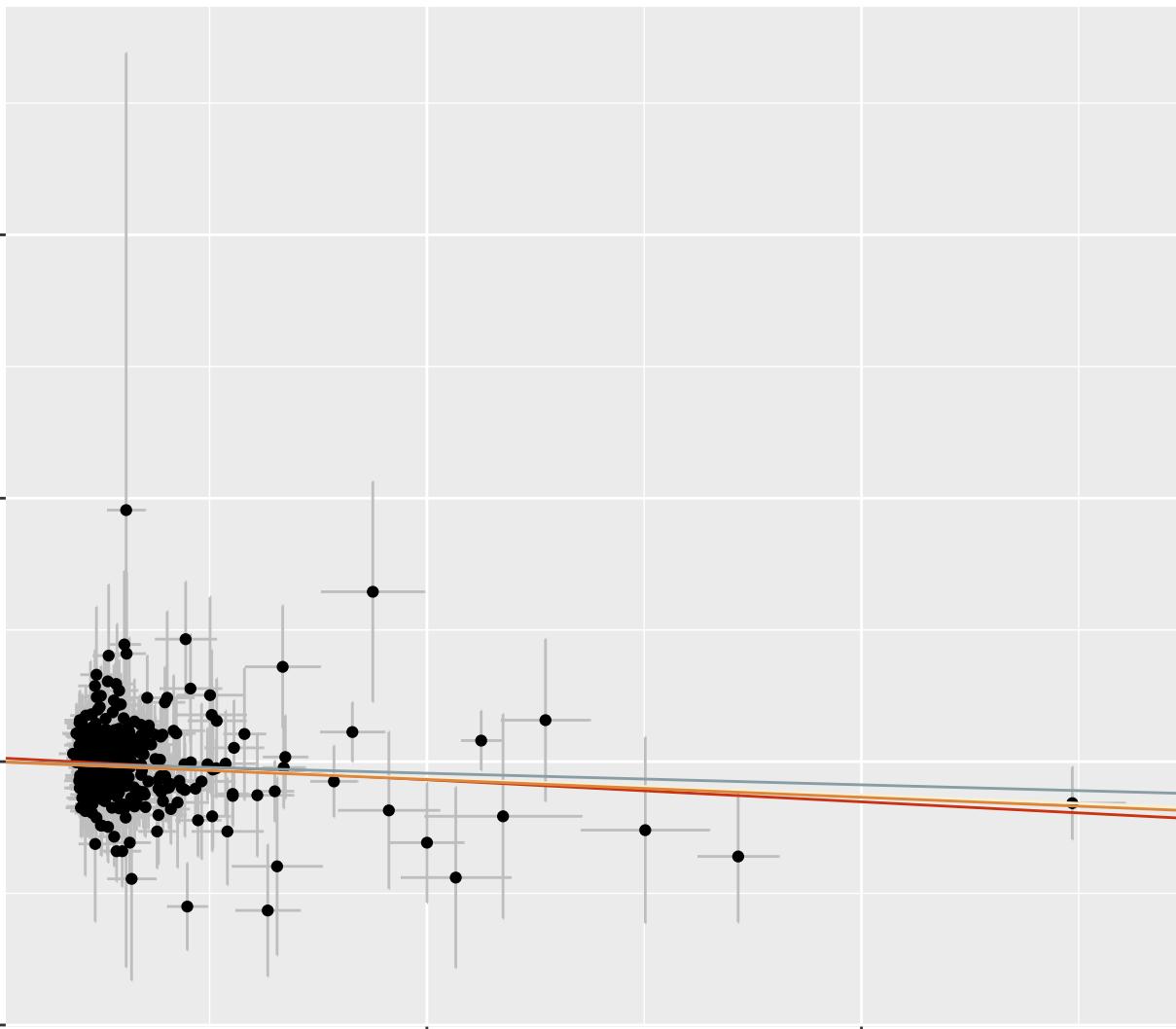
0.00

-0.04

0.05

0.10

SNP effect on Yengo BMI EU sex combined 941 SNPs clumped



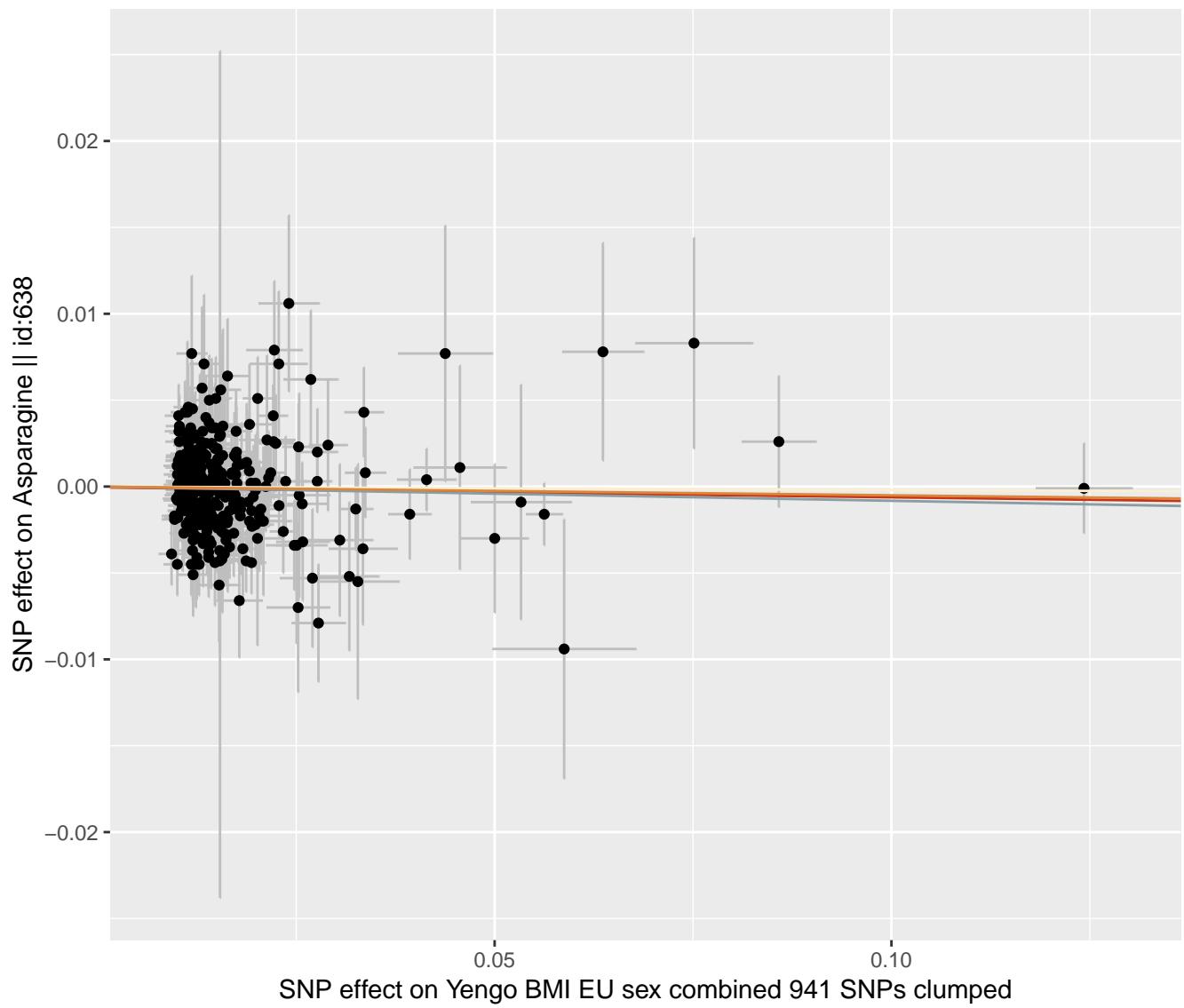
# MR Test

Inverse variance weighted (multiplicative random effects)

MR Egger

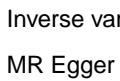
Weighted median

Weighted mode



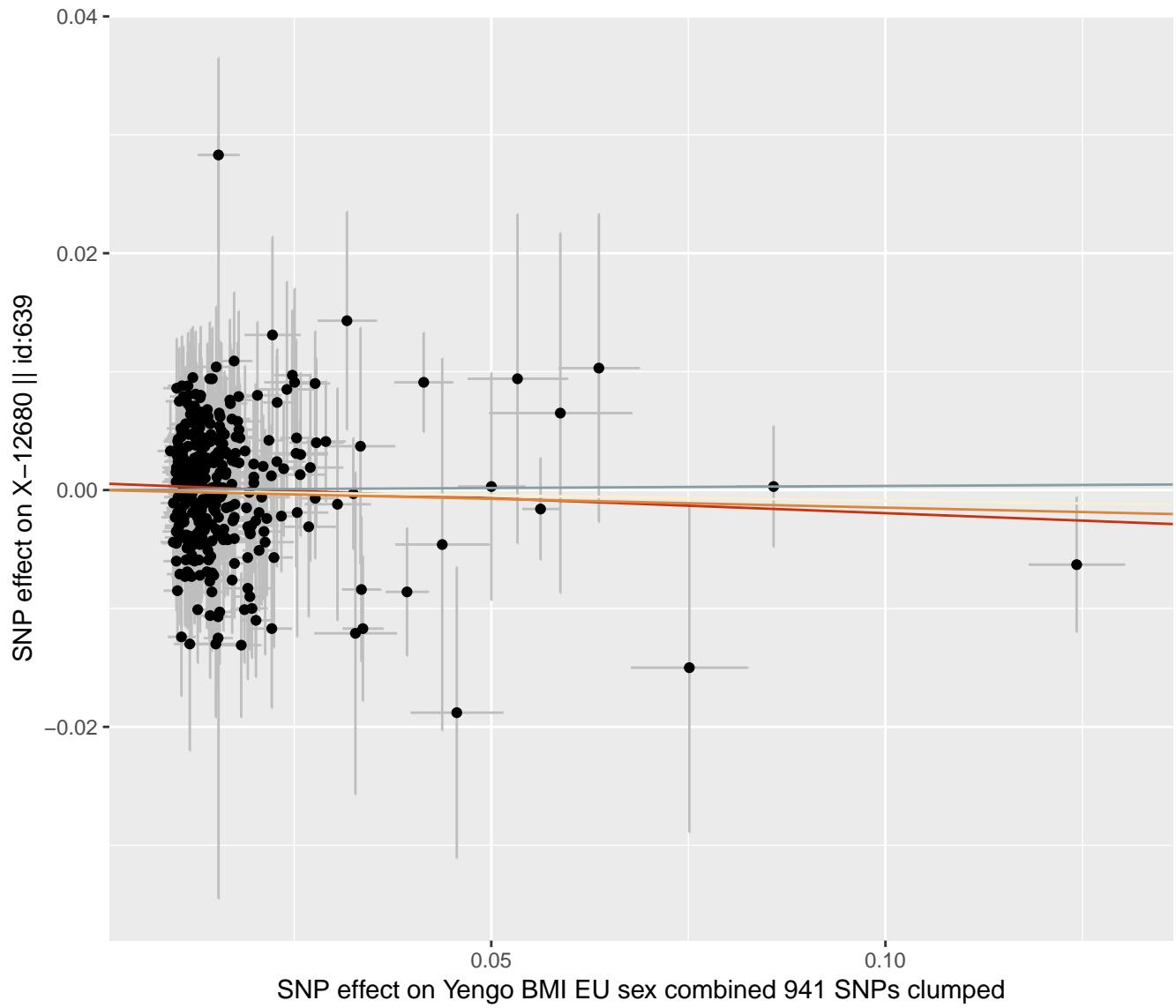
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

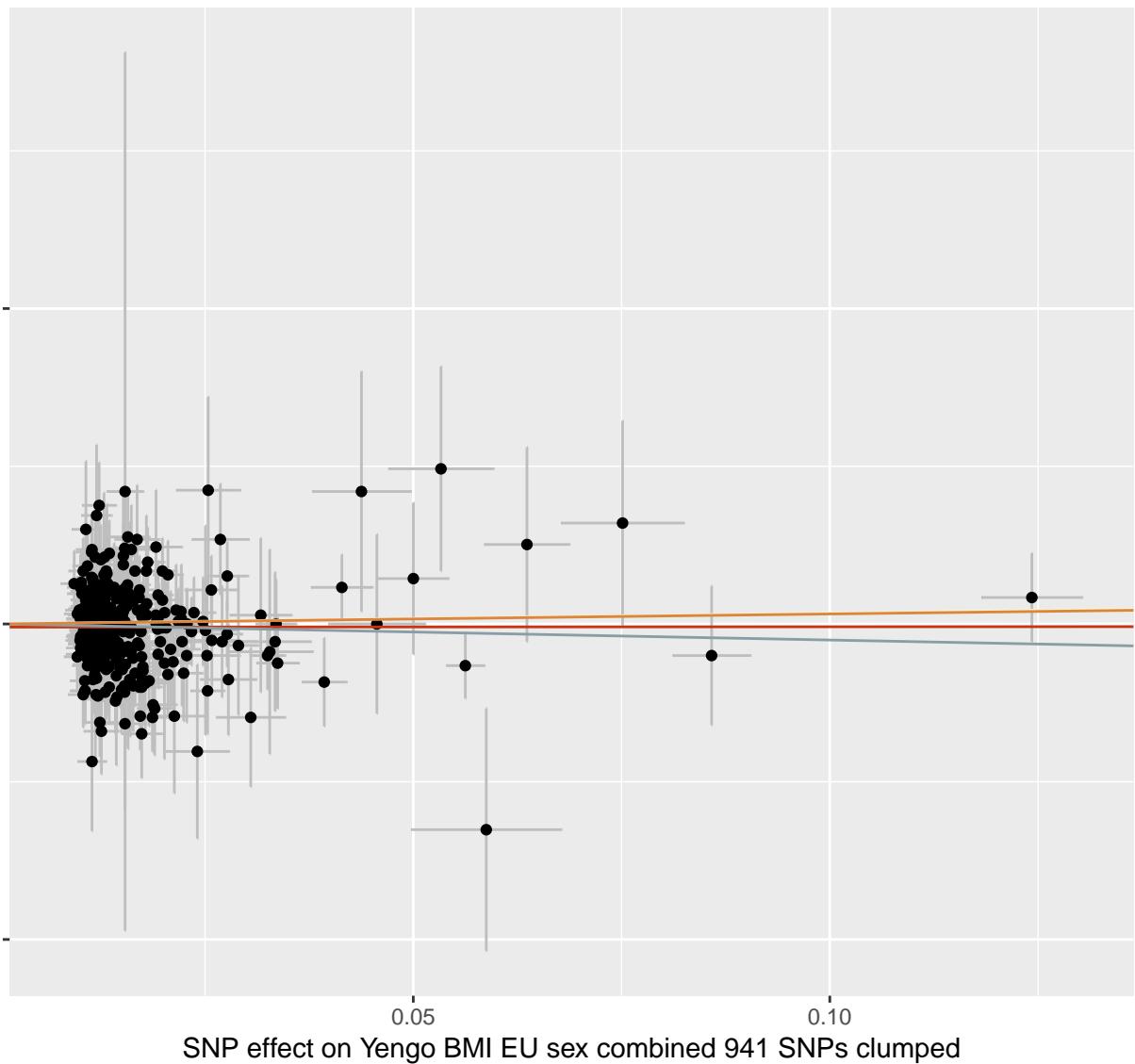


Weighted median



Weighted mode

SNP effect on X-12696 || id:640



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

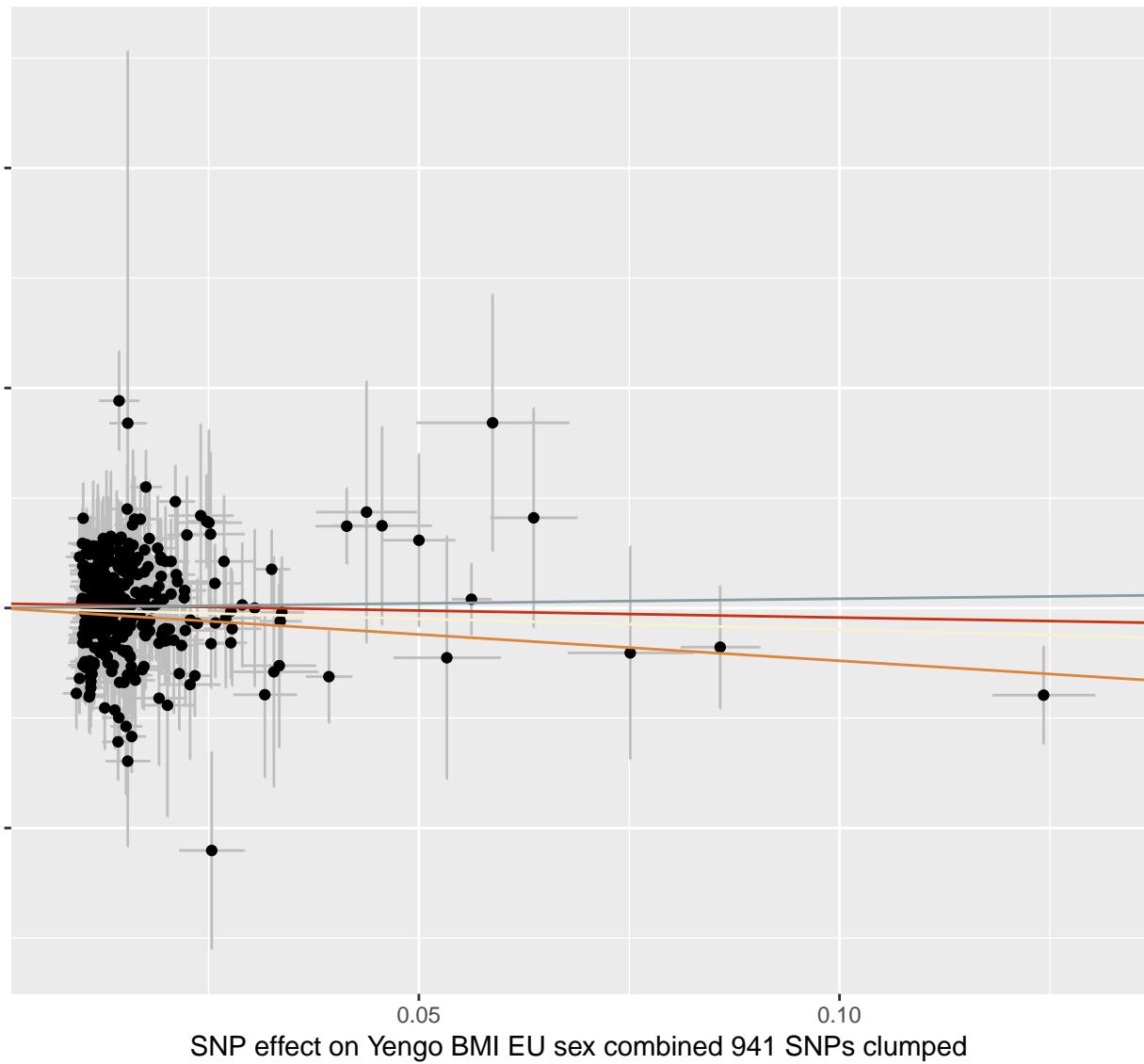


Weighted median



Weighted mode

SNP effect on X-12704 || id:641



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



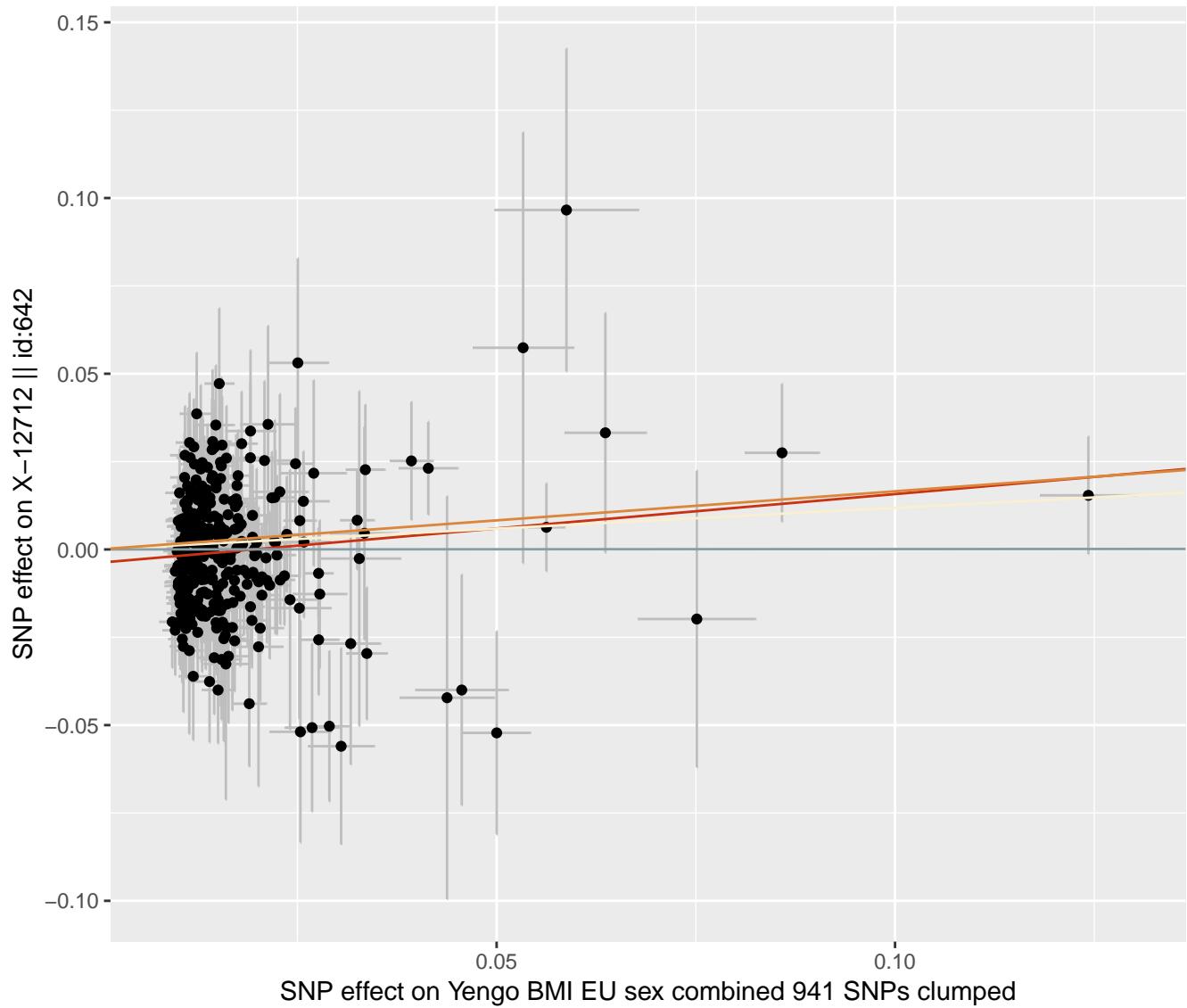
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



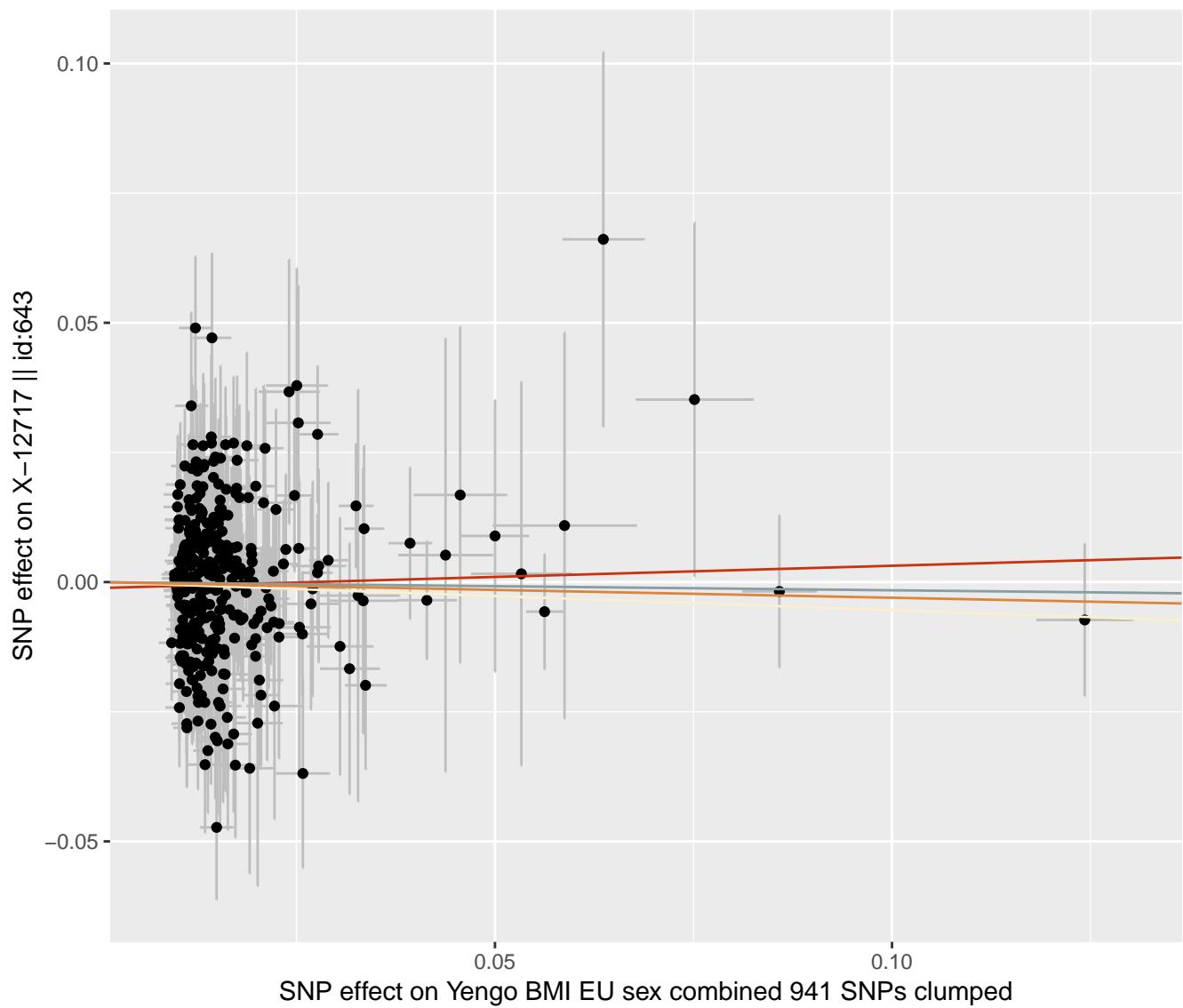
MR Egger



Weighted median



Weighted mode



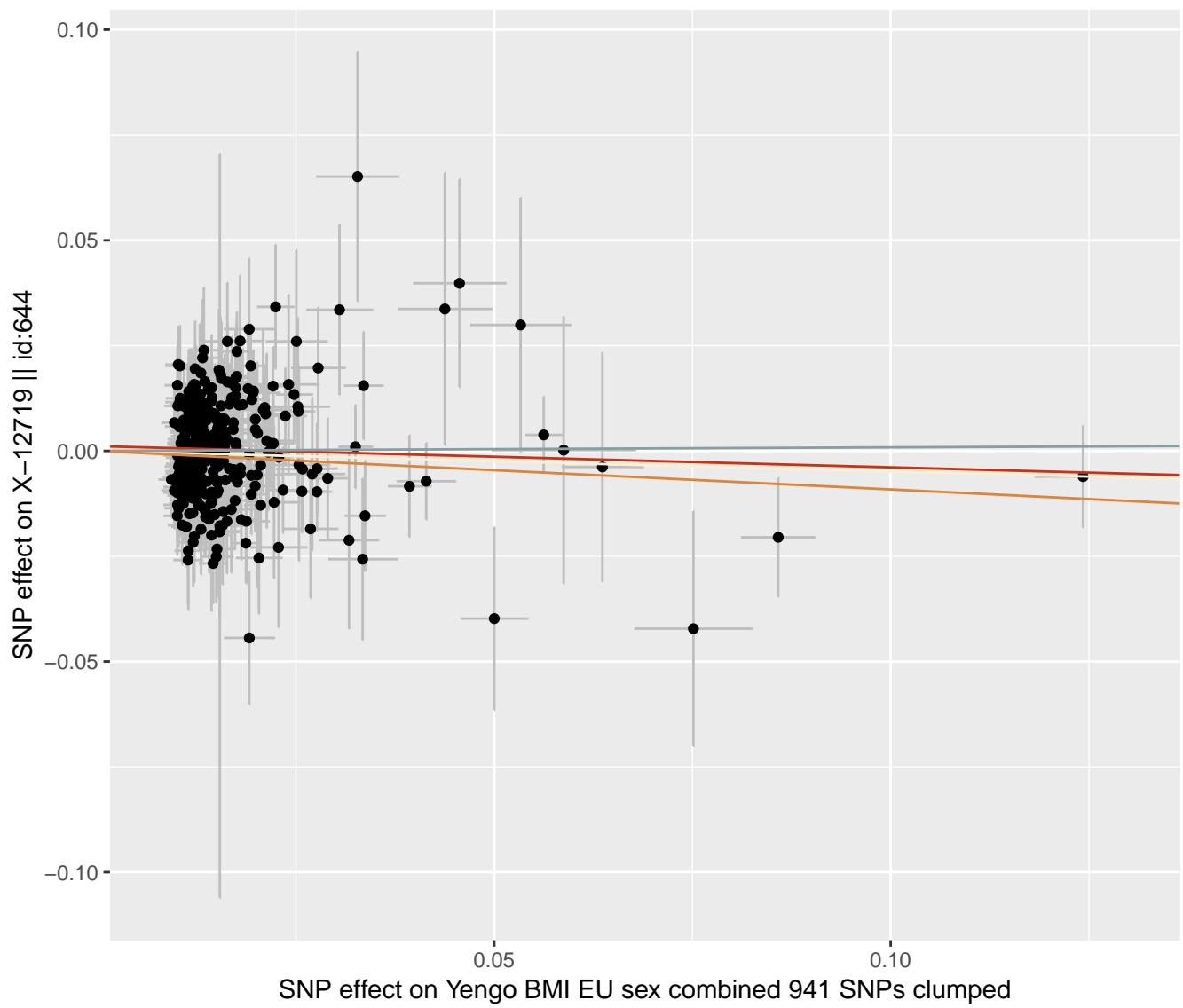
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



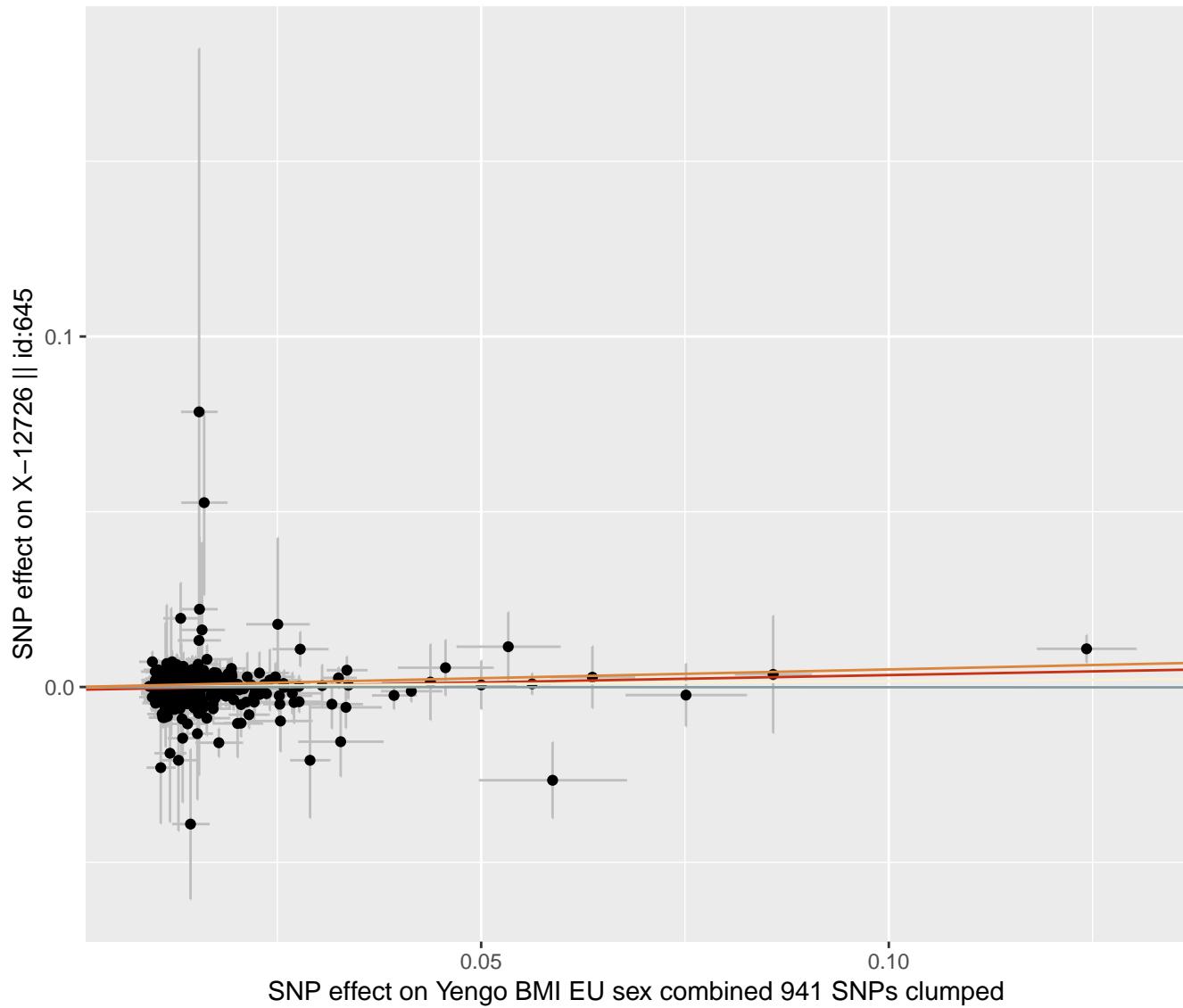
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



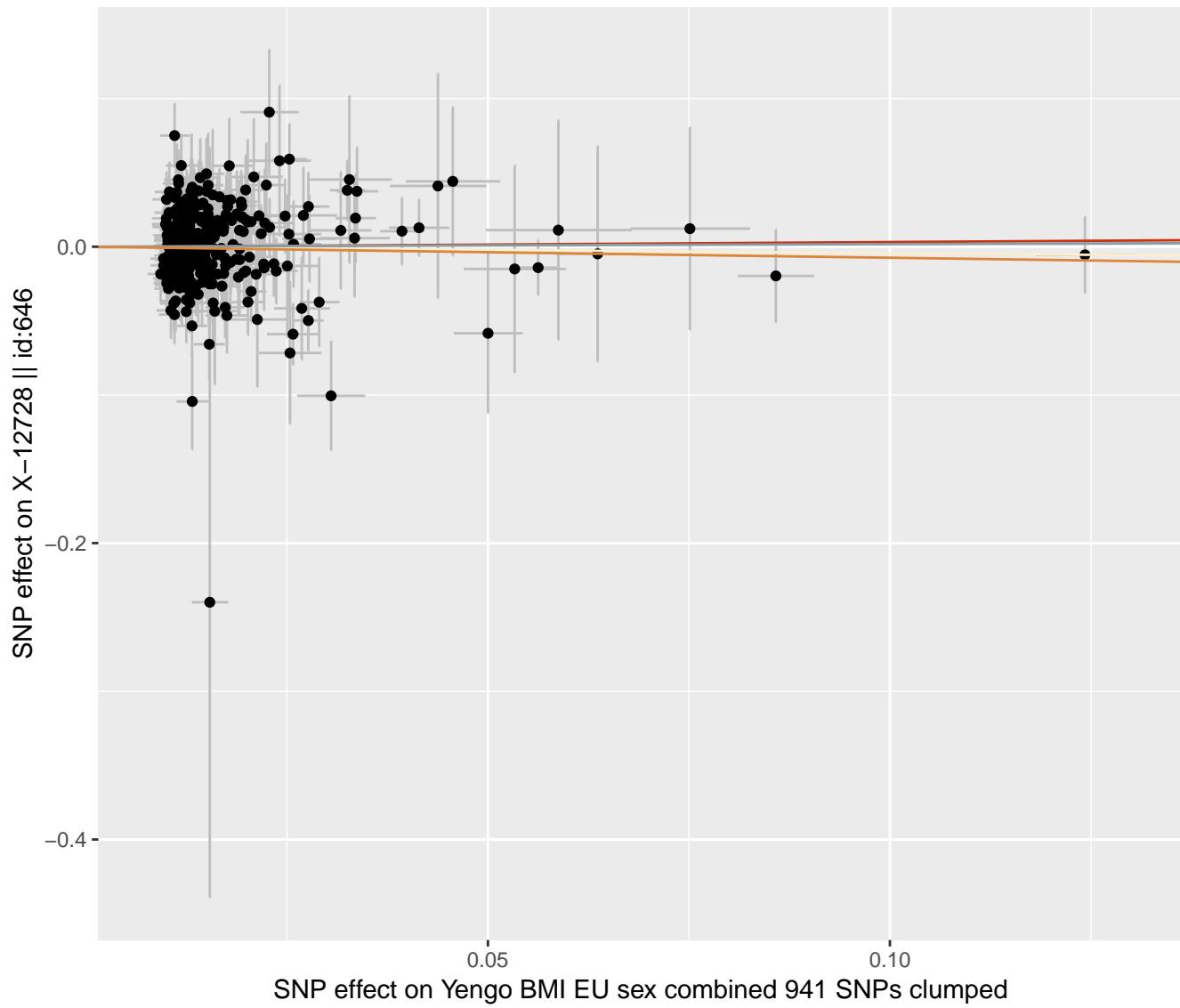
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



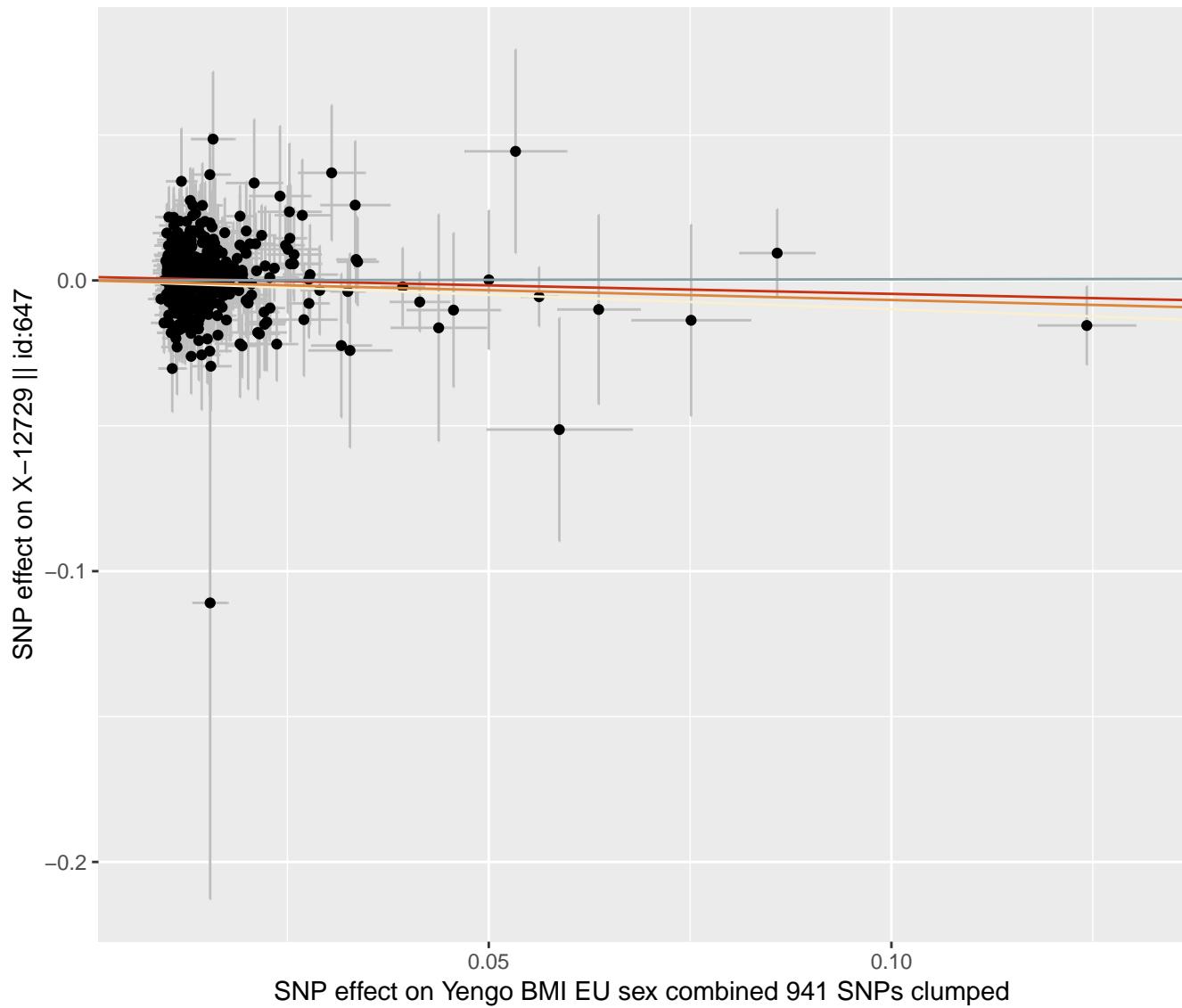
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



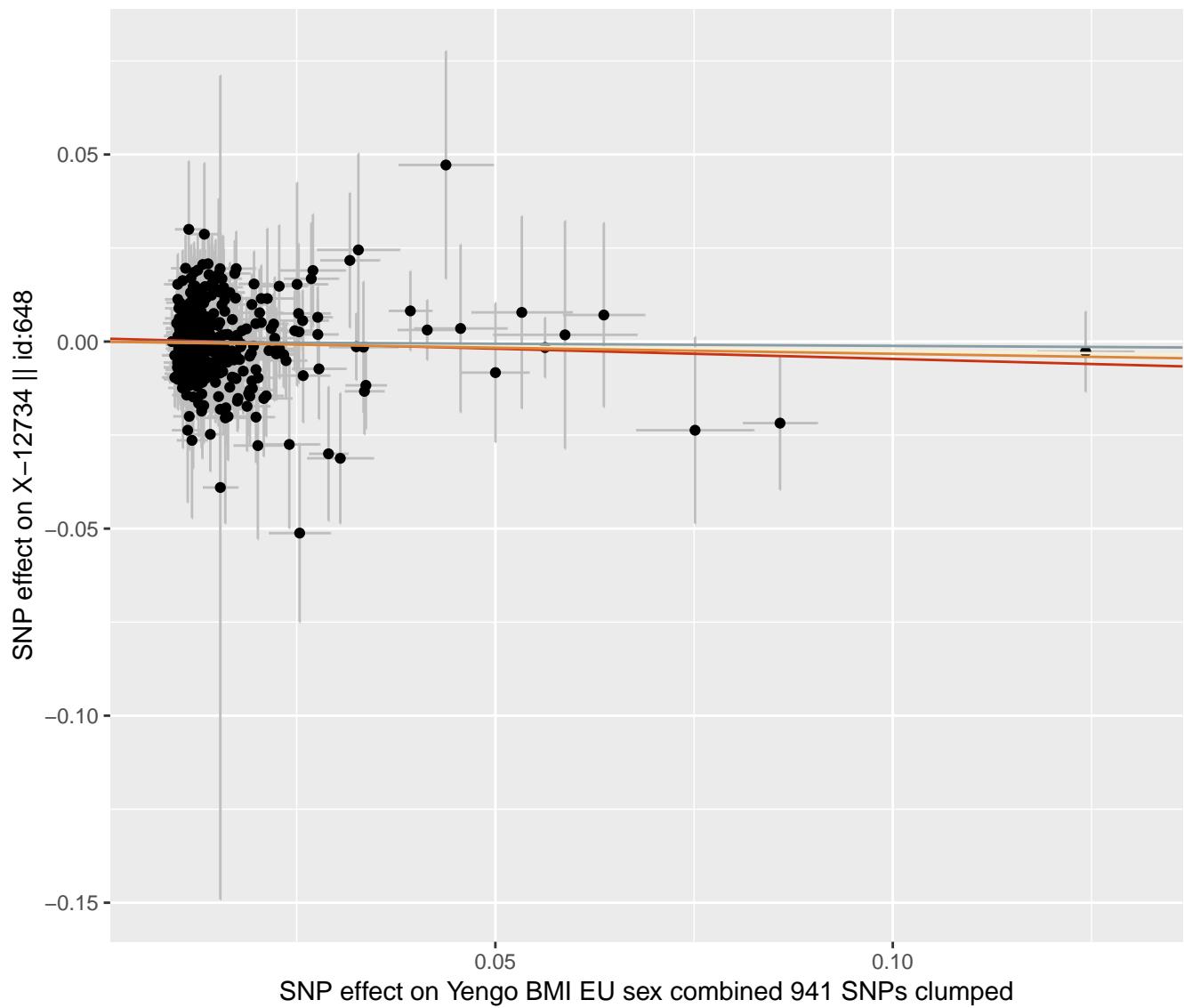
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

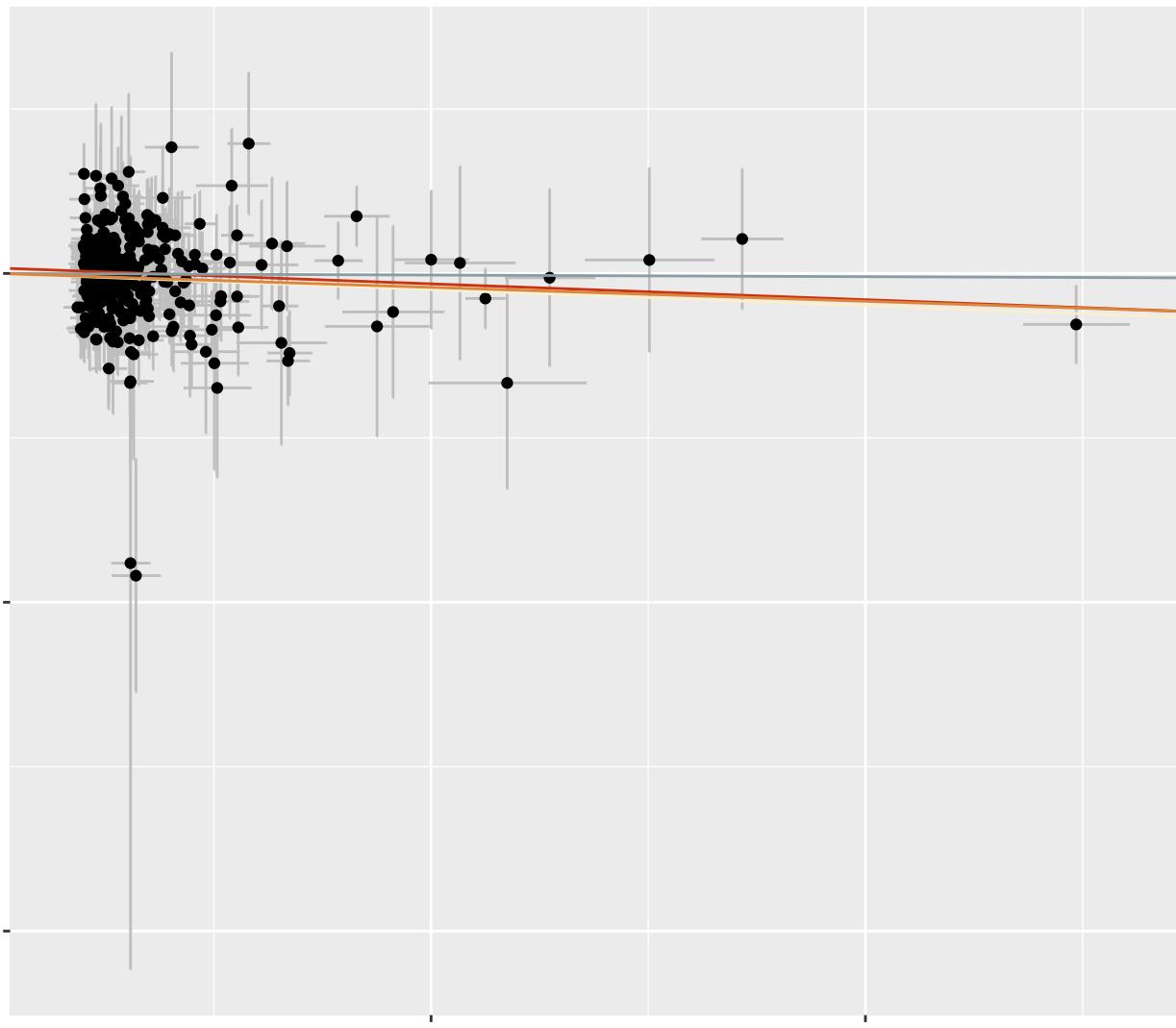


Weighted median



Weighted mode

SNP effect on X-12740 || id:649



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



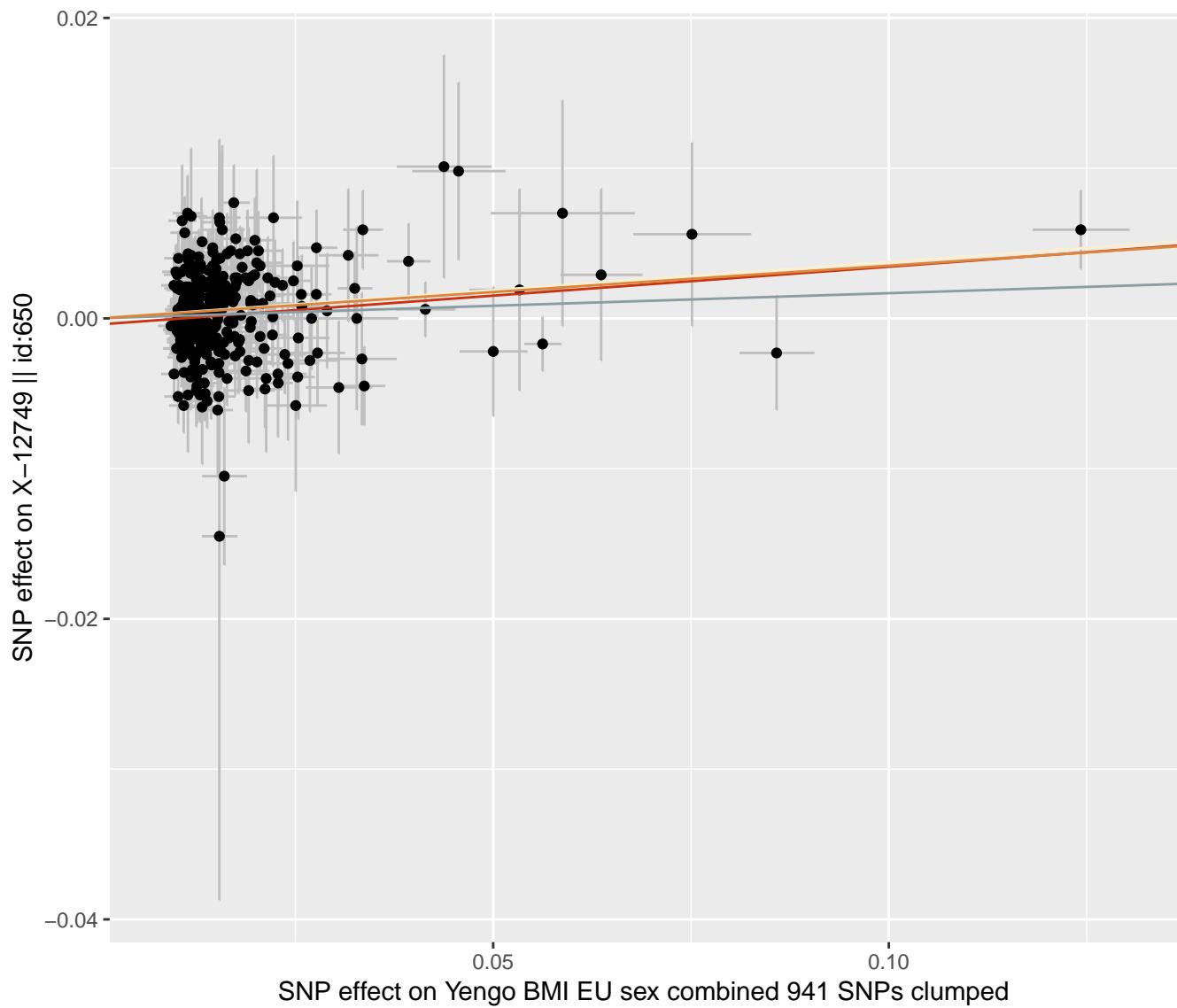
MR Egger



Weighted median

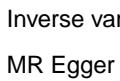


Weighted mode

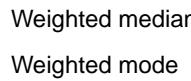


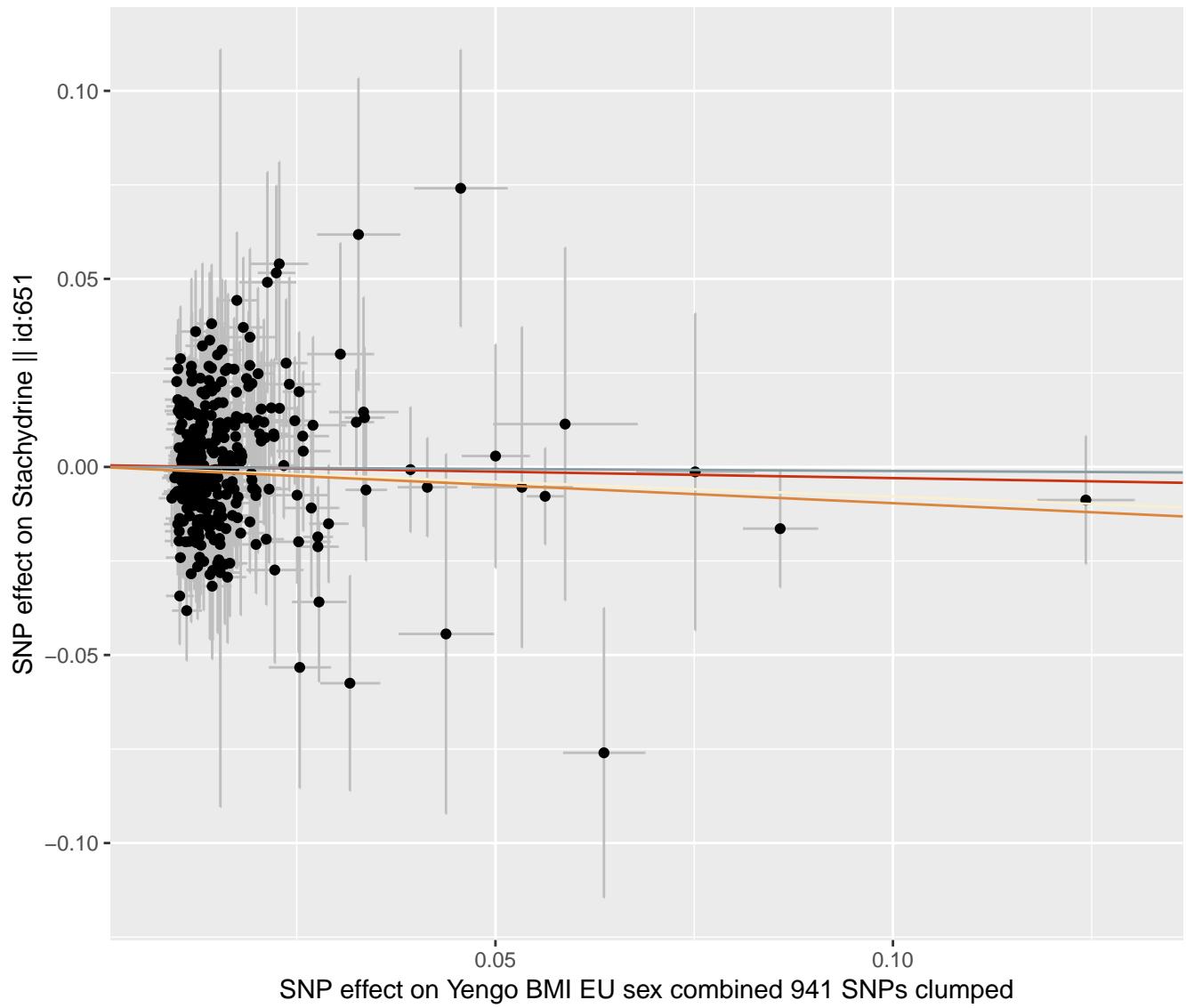
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on Isovalerylcarnitine || id:652

0.09

0.06

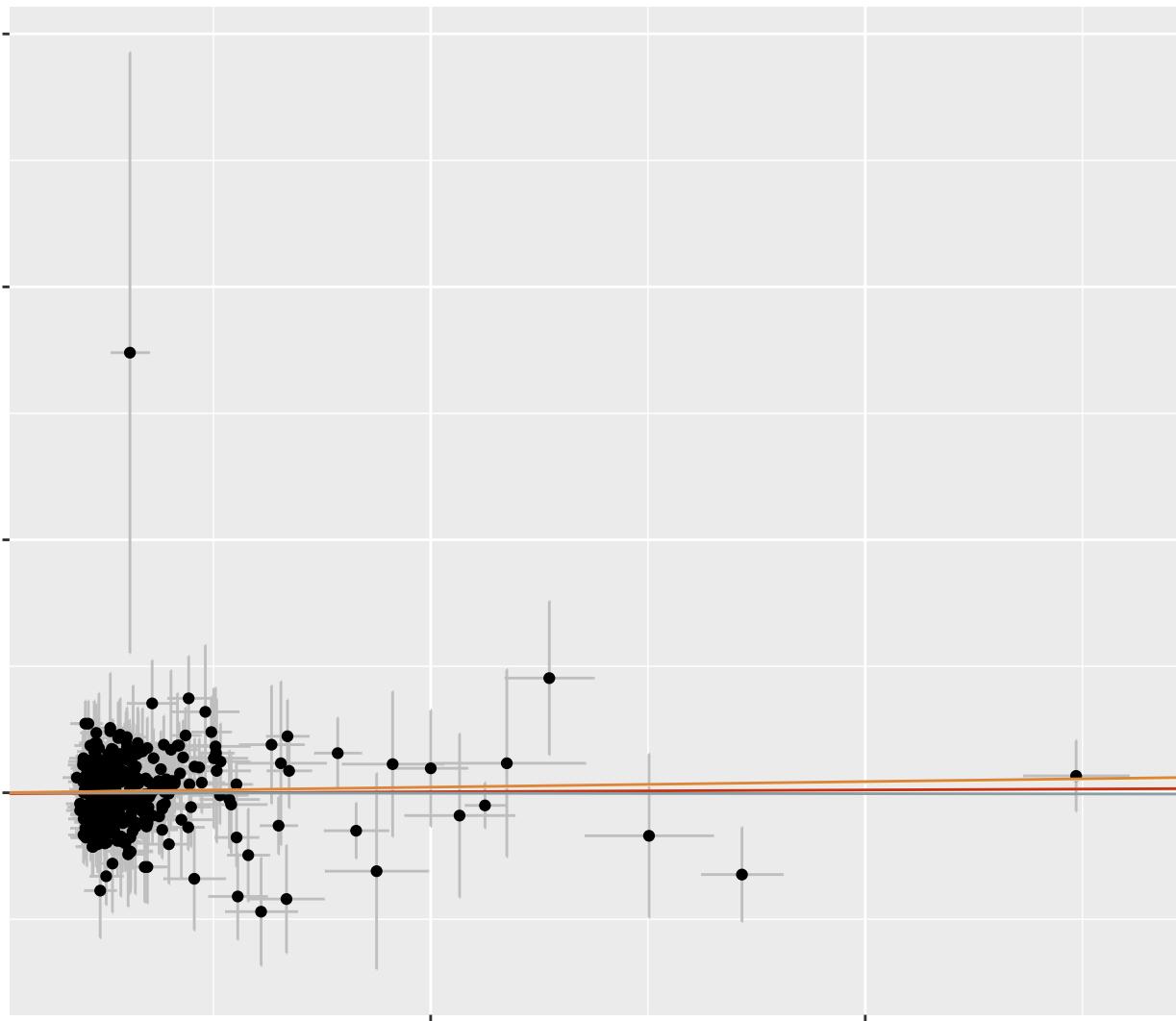
0.03

0.00

0.05

0.10

SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

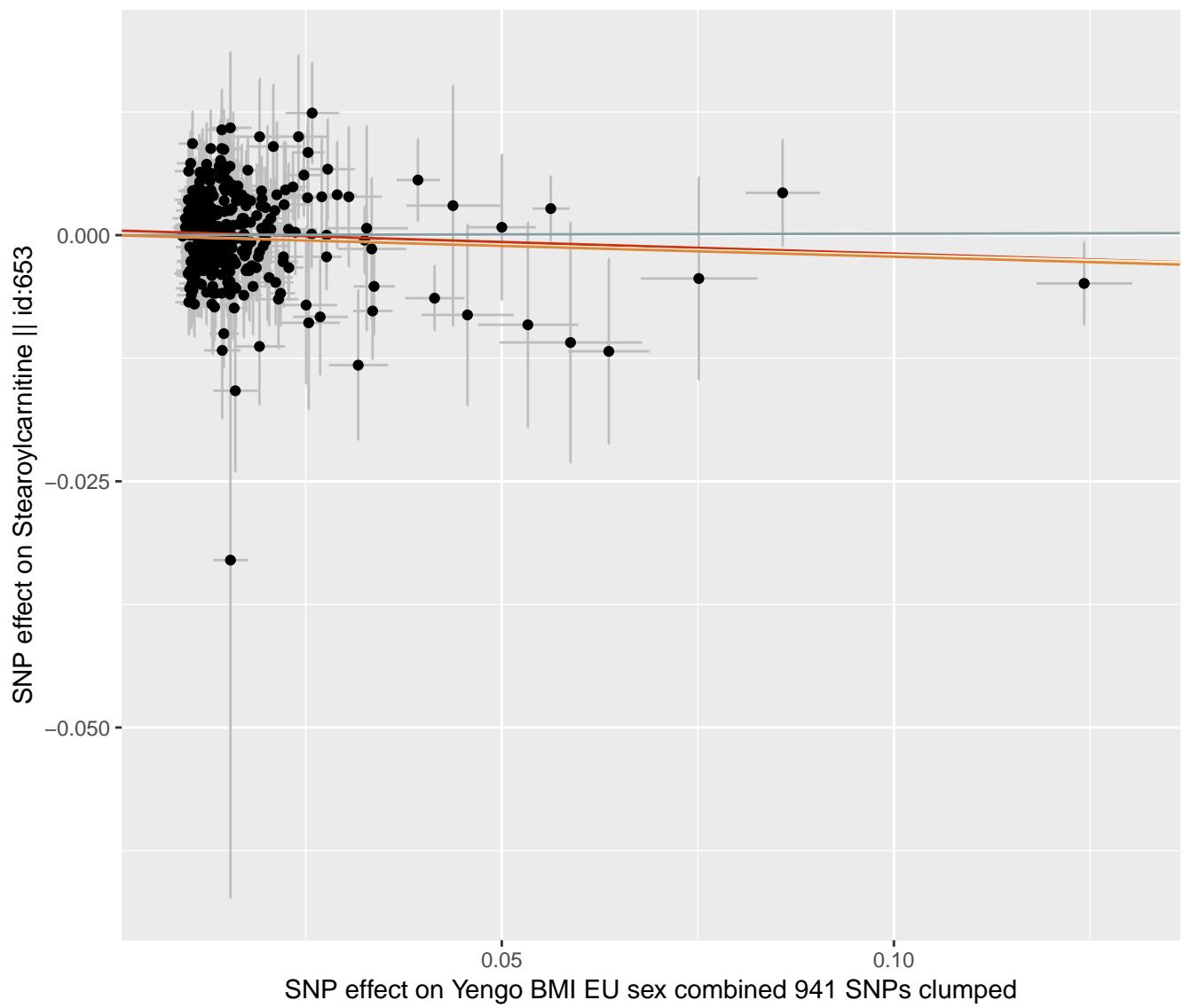


## MR Test



## Inverse variance weighted (multiplicative random effects) MR Egger

Weighted median  
Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



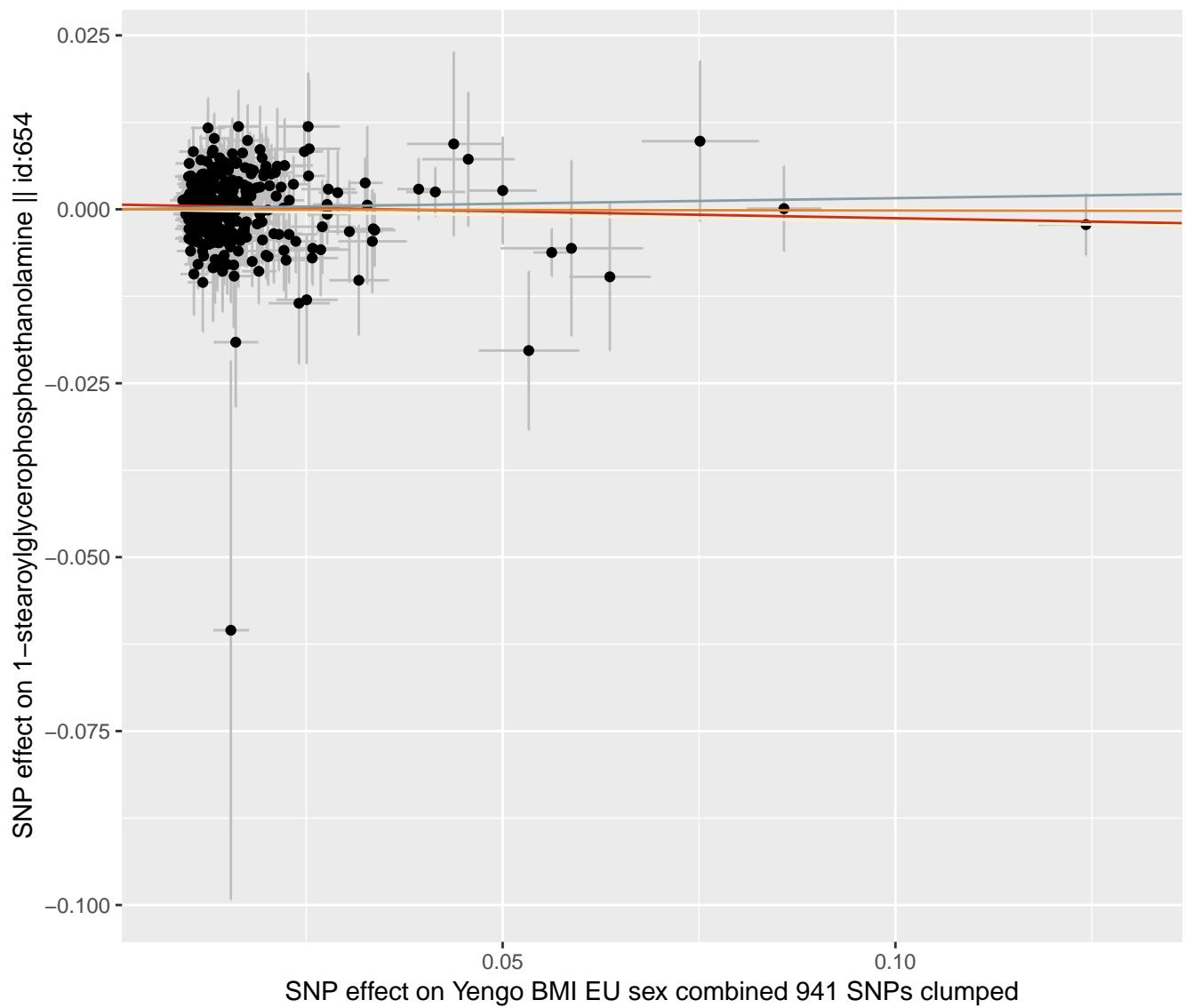
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



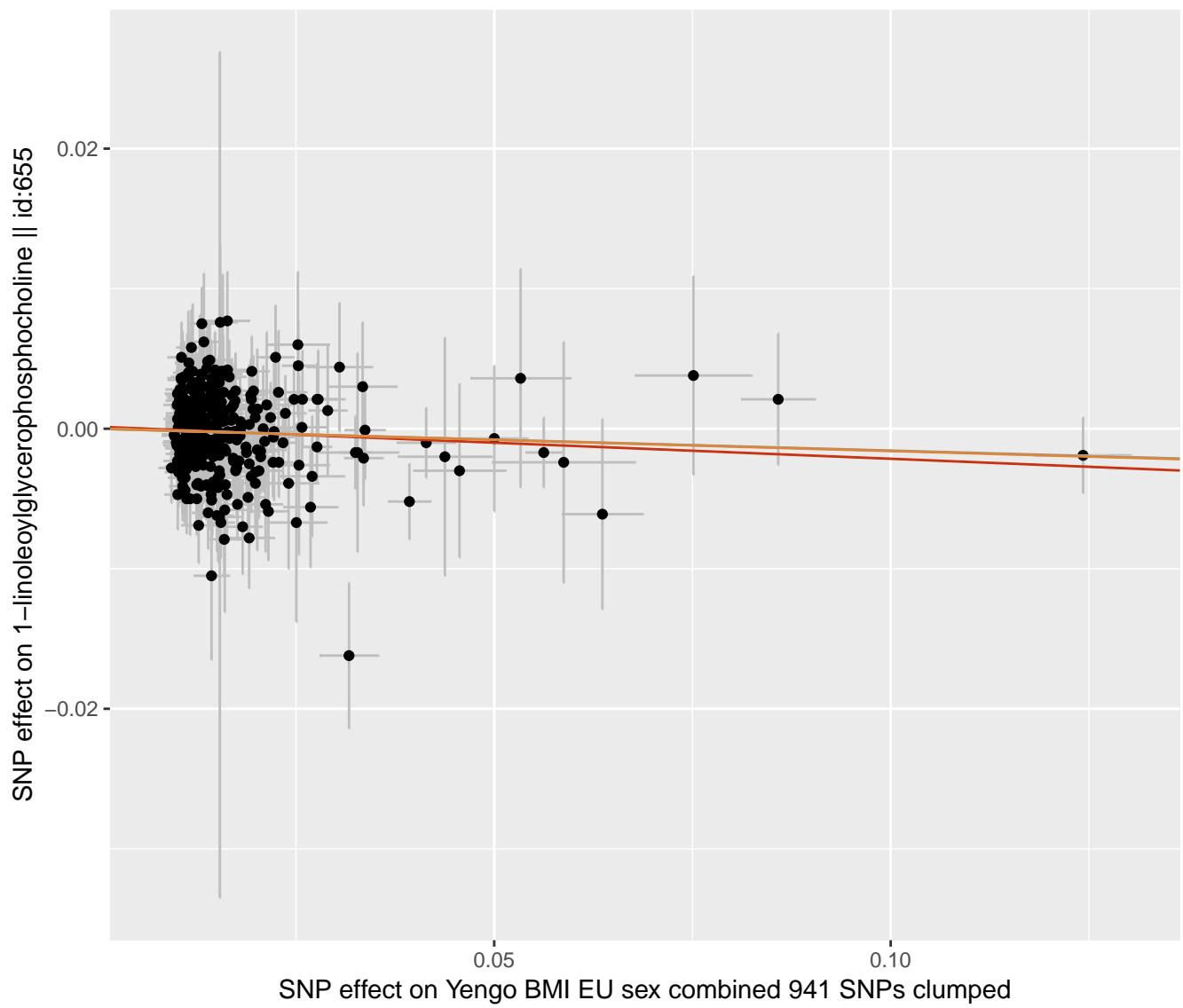
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



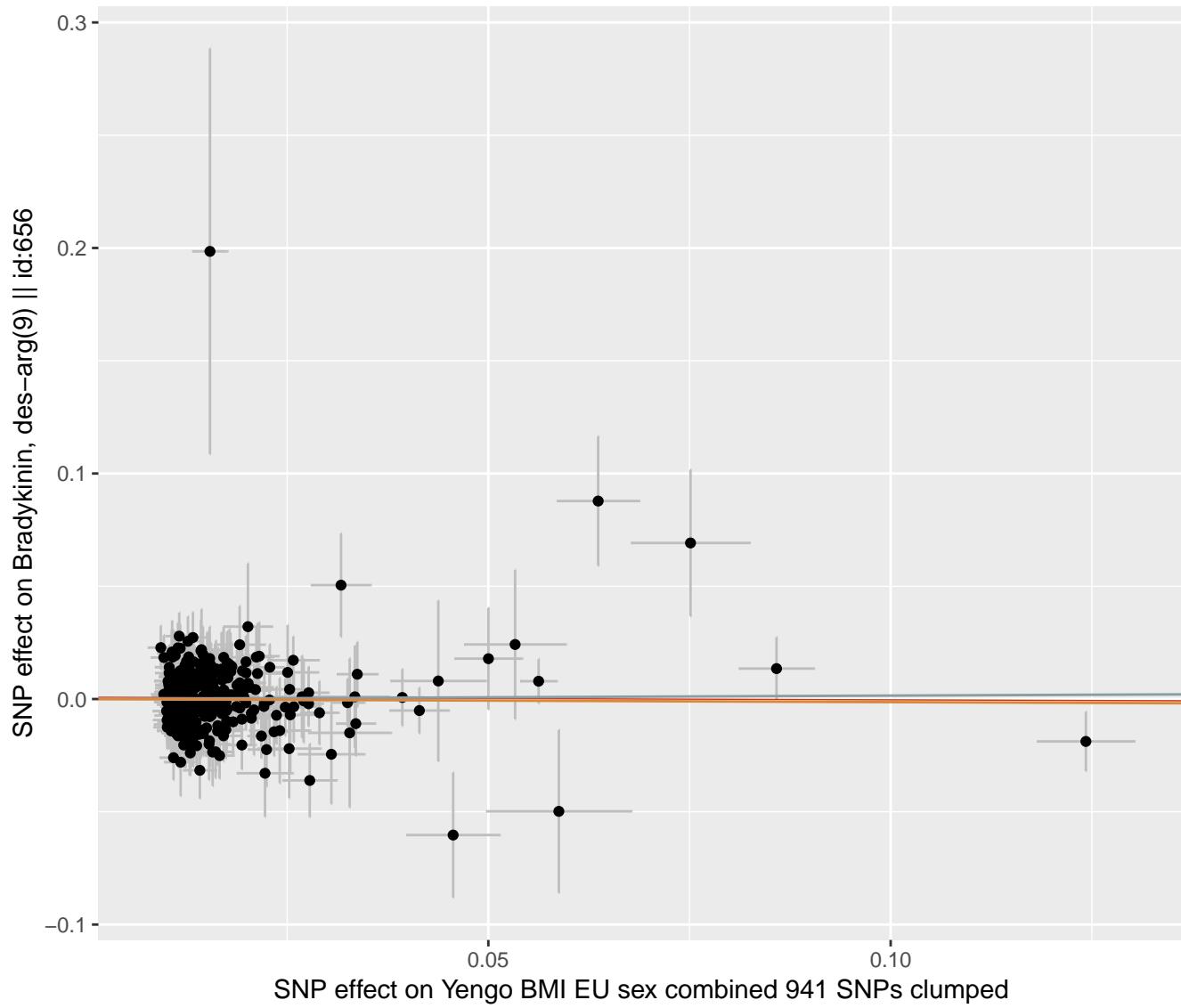
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



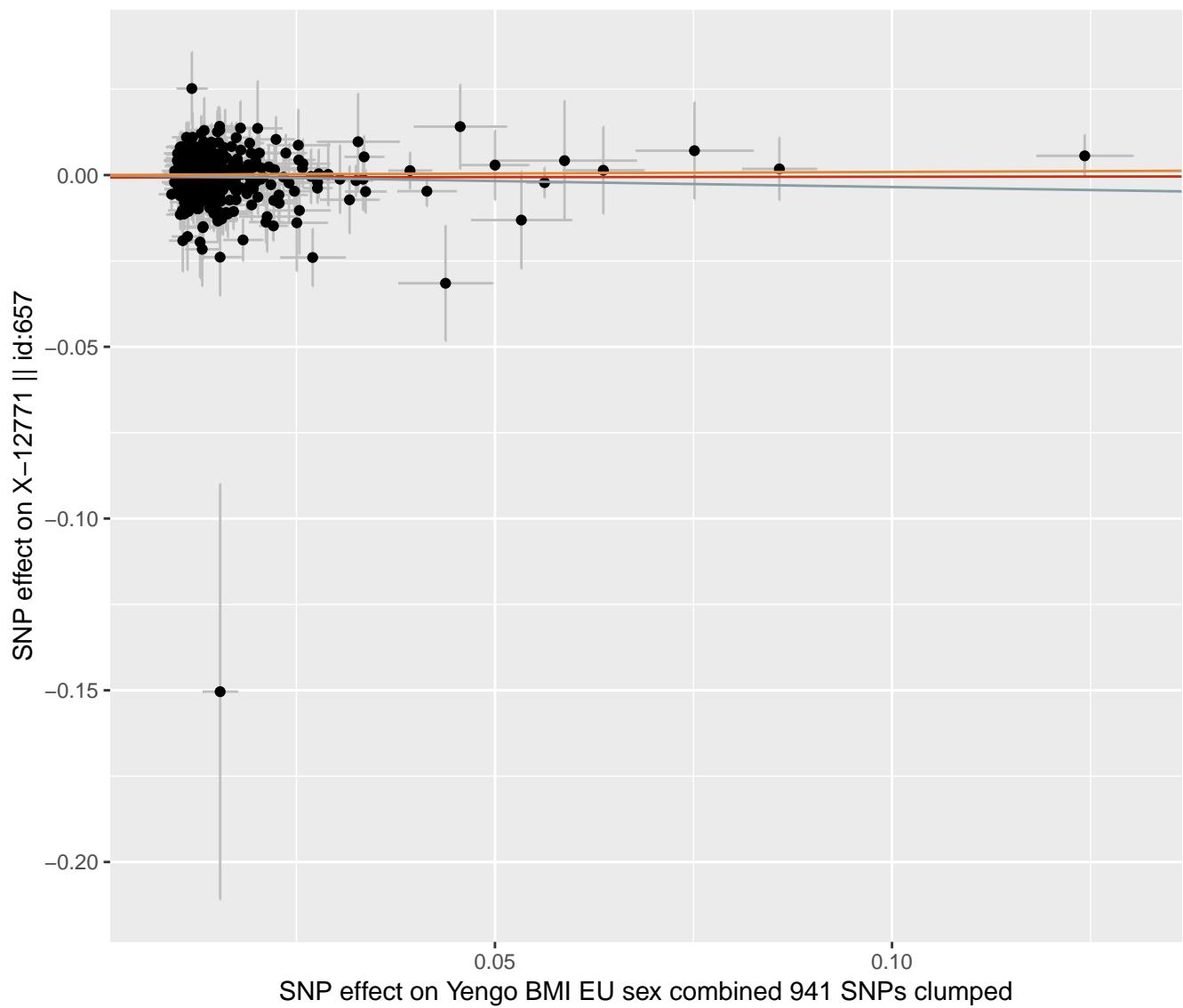
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

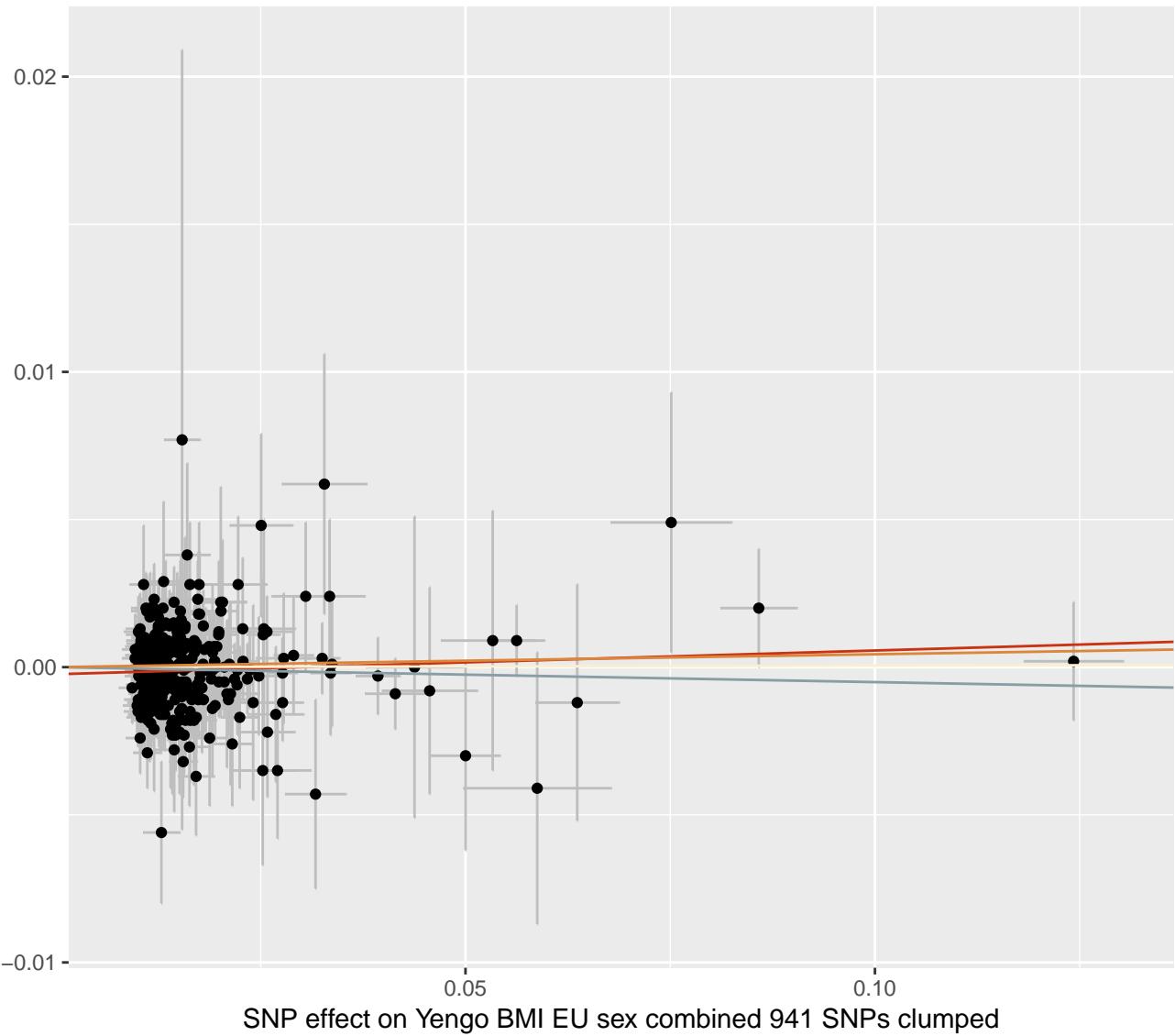


Weighted median



Weighted mode

SNP effect on X-12776 || id:658



### MR Test



Inverse variance weighted (multiplicative random effects)



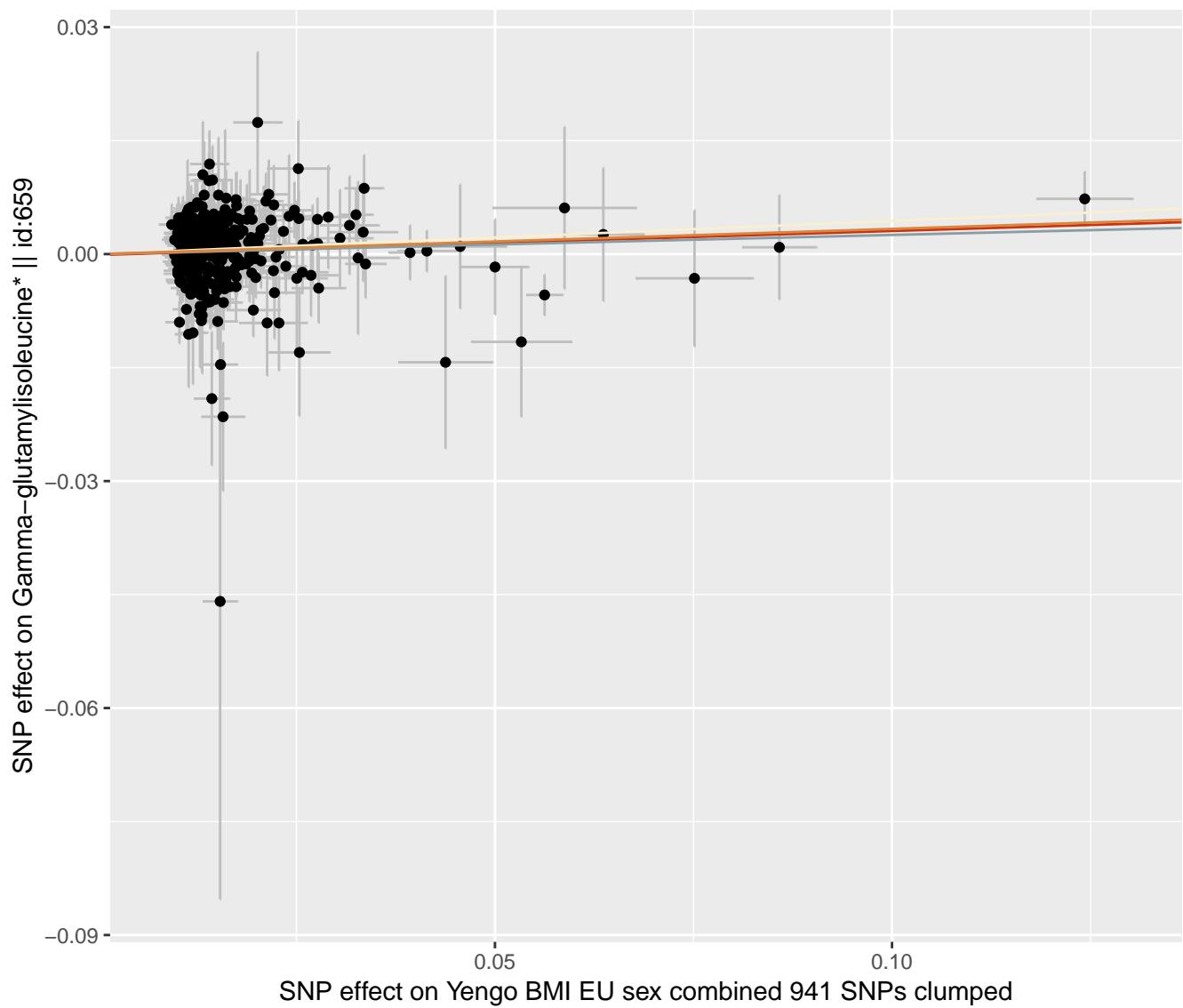
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



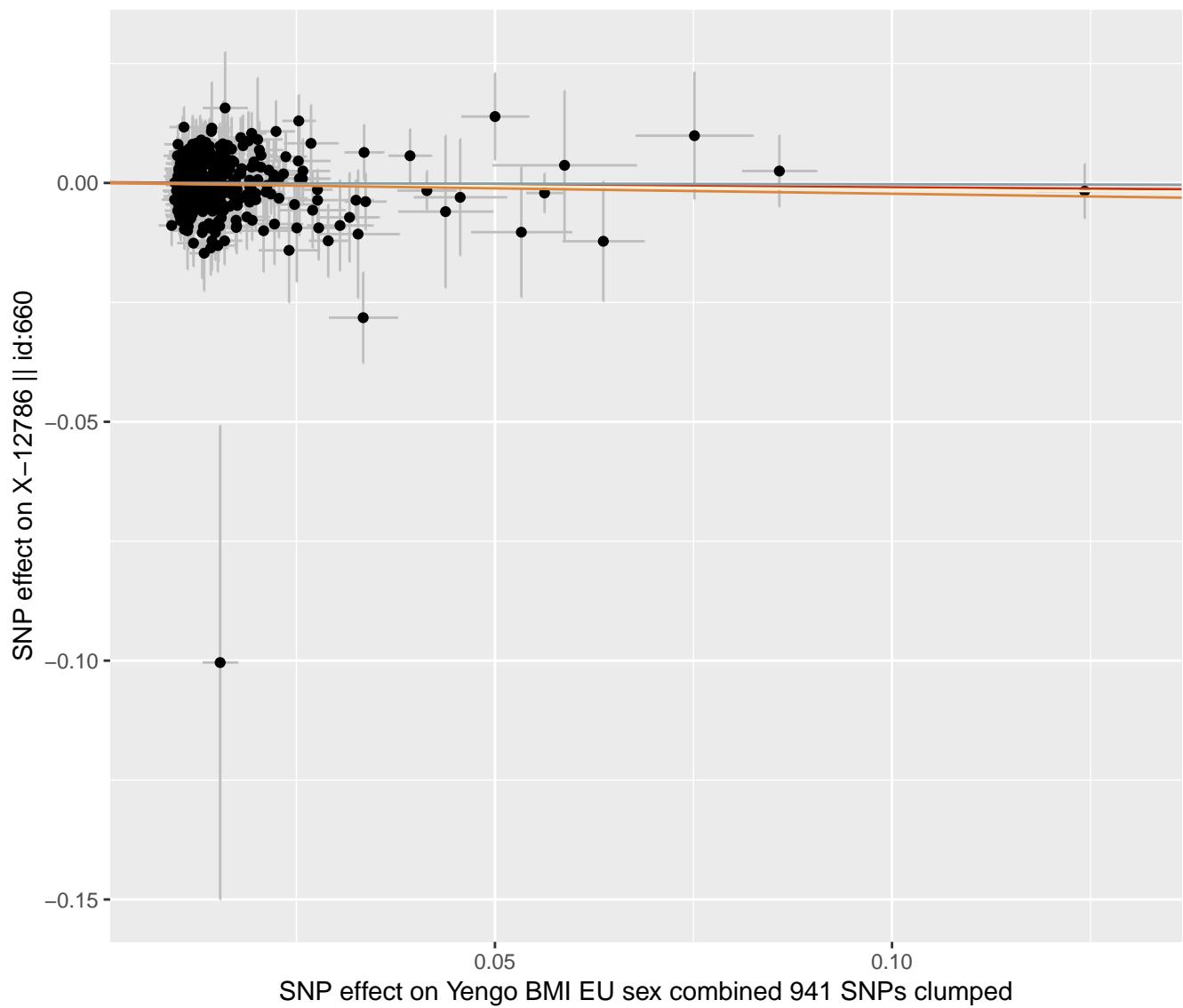
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



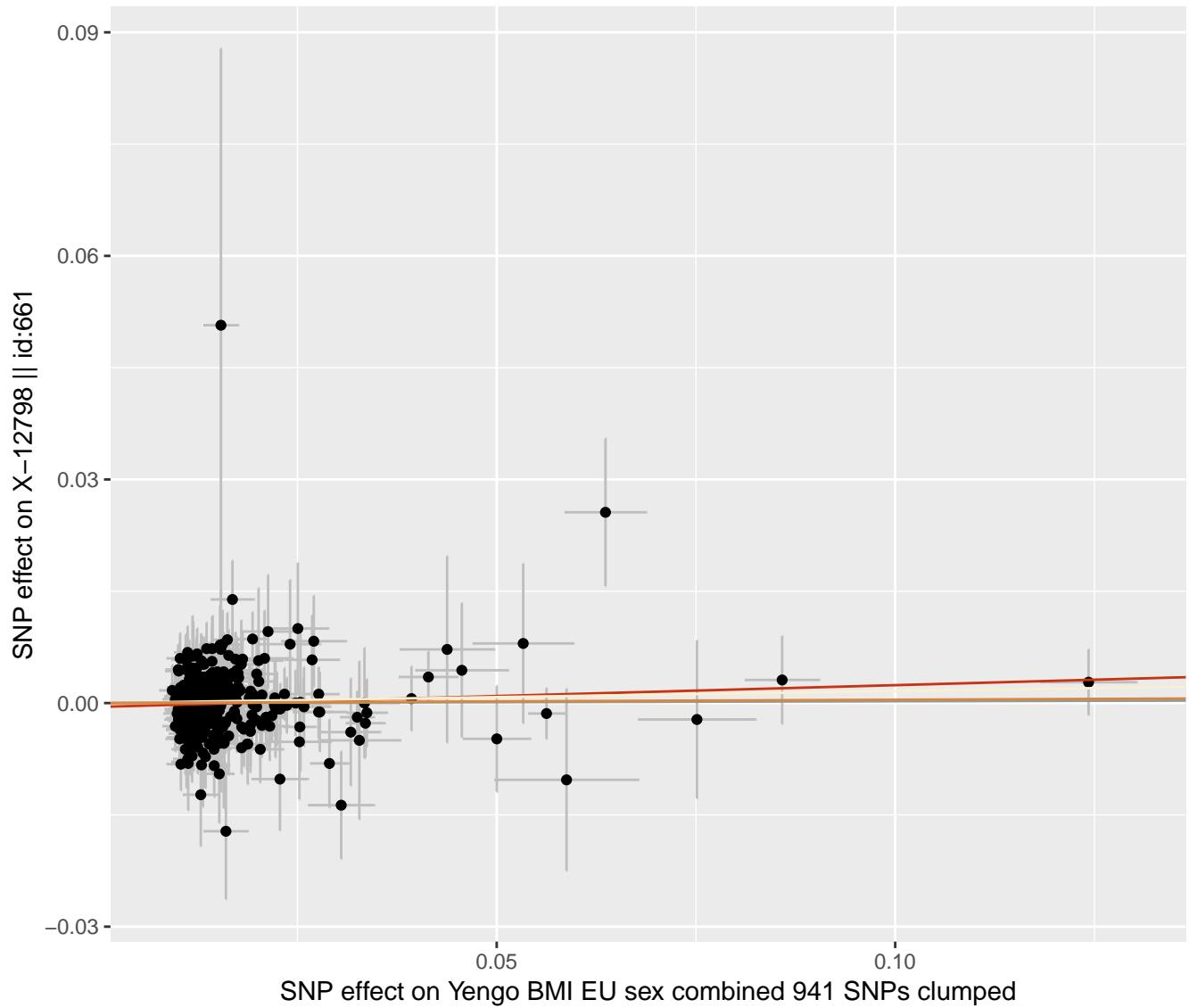
MR Egger



Weighted median



Weighted mode



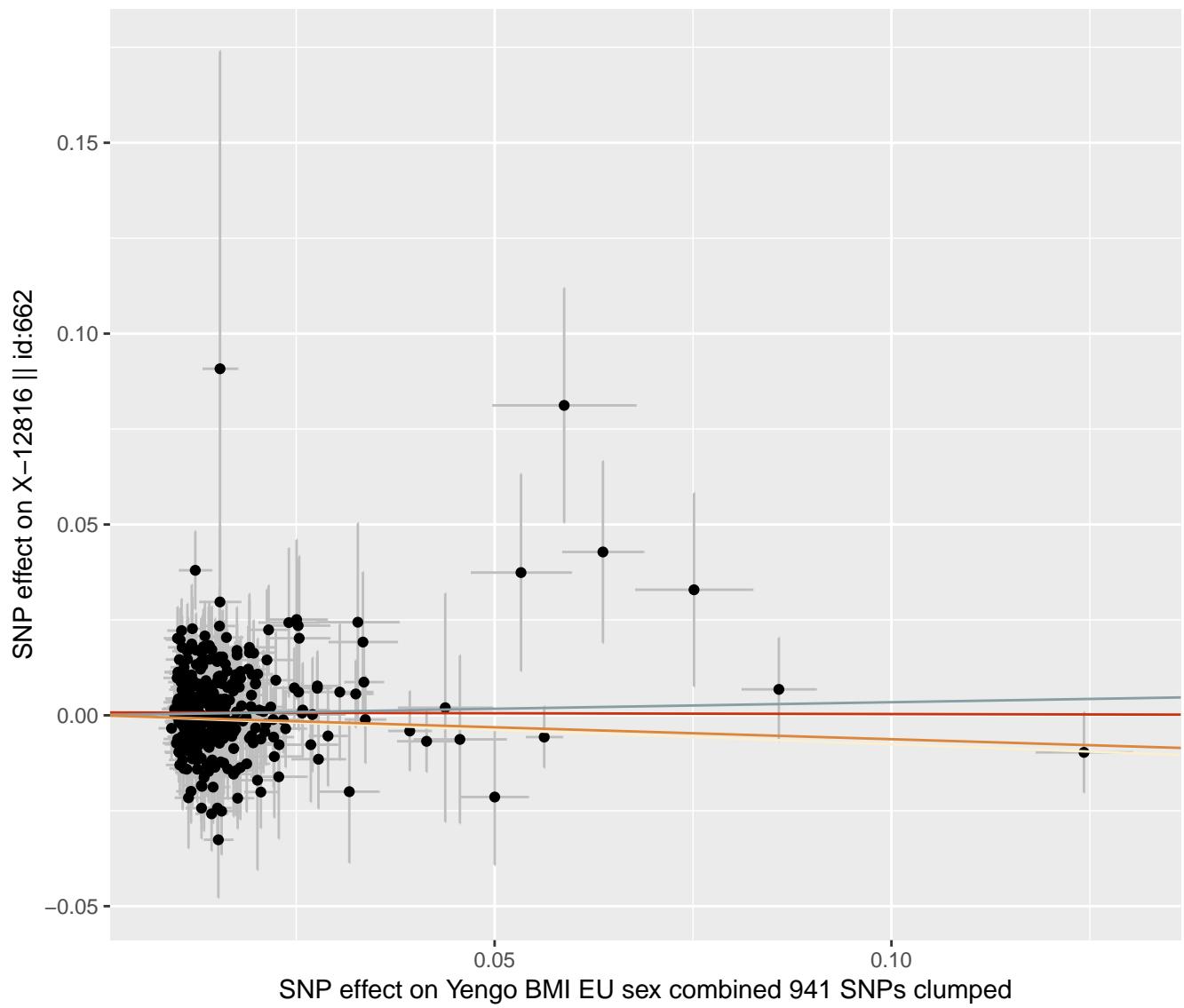
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

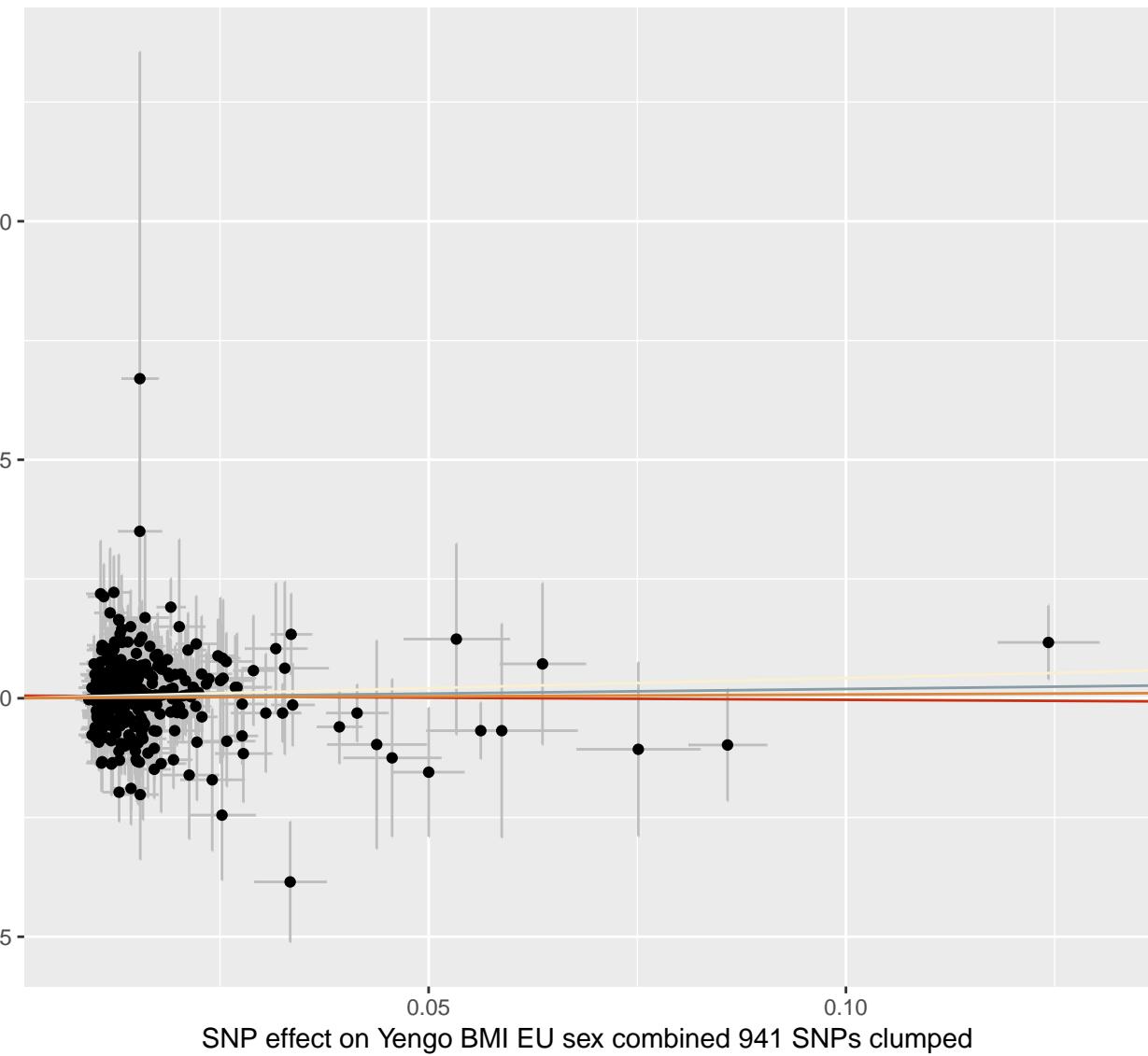


Weighted median

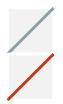


Weighted mode

SNP effect on X-12830 || id:663



### MR Test



Inverse variance weighted (multiplicative random effects)



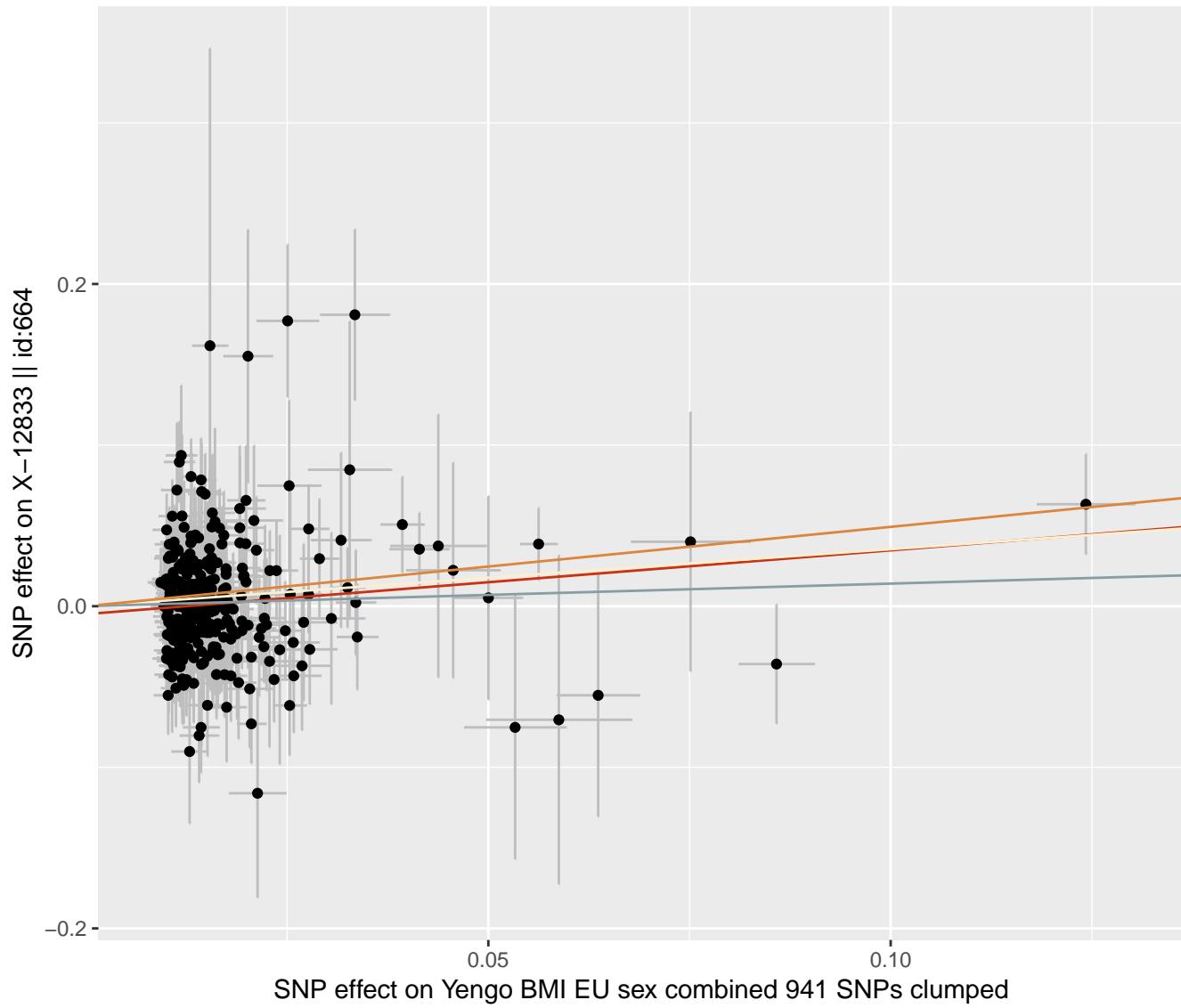
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

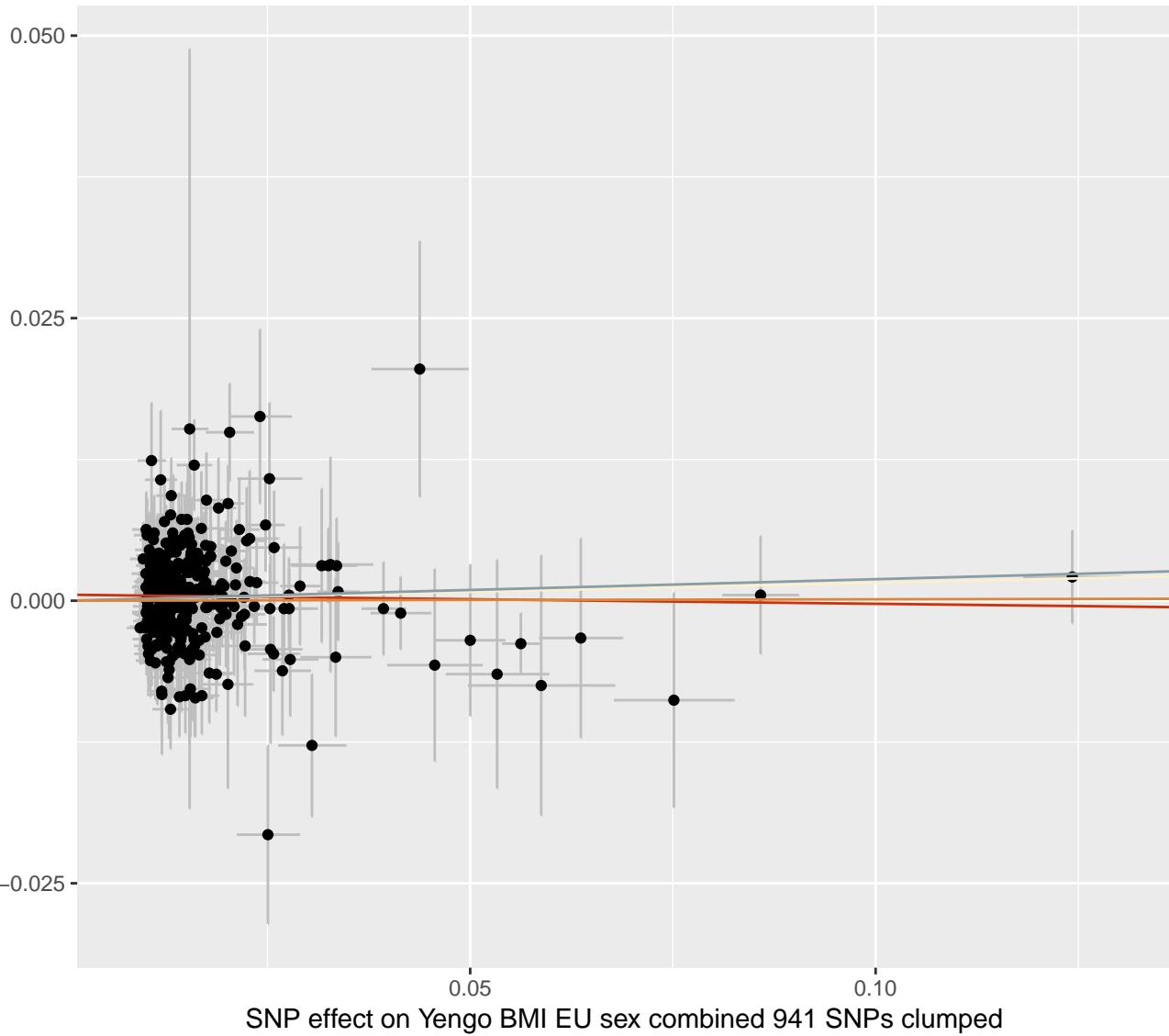


Weighted median



Weighted mode

SNP effect on X-12844 || id:665



## MR Test



Inverse variance weighted (multiplicative random effects)



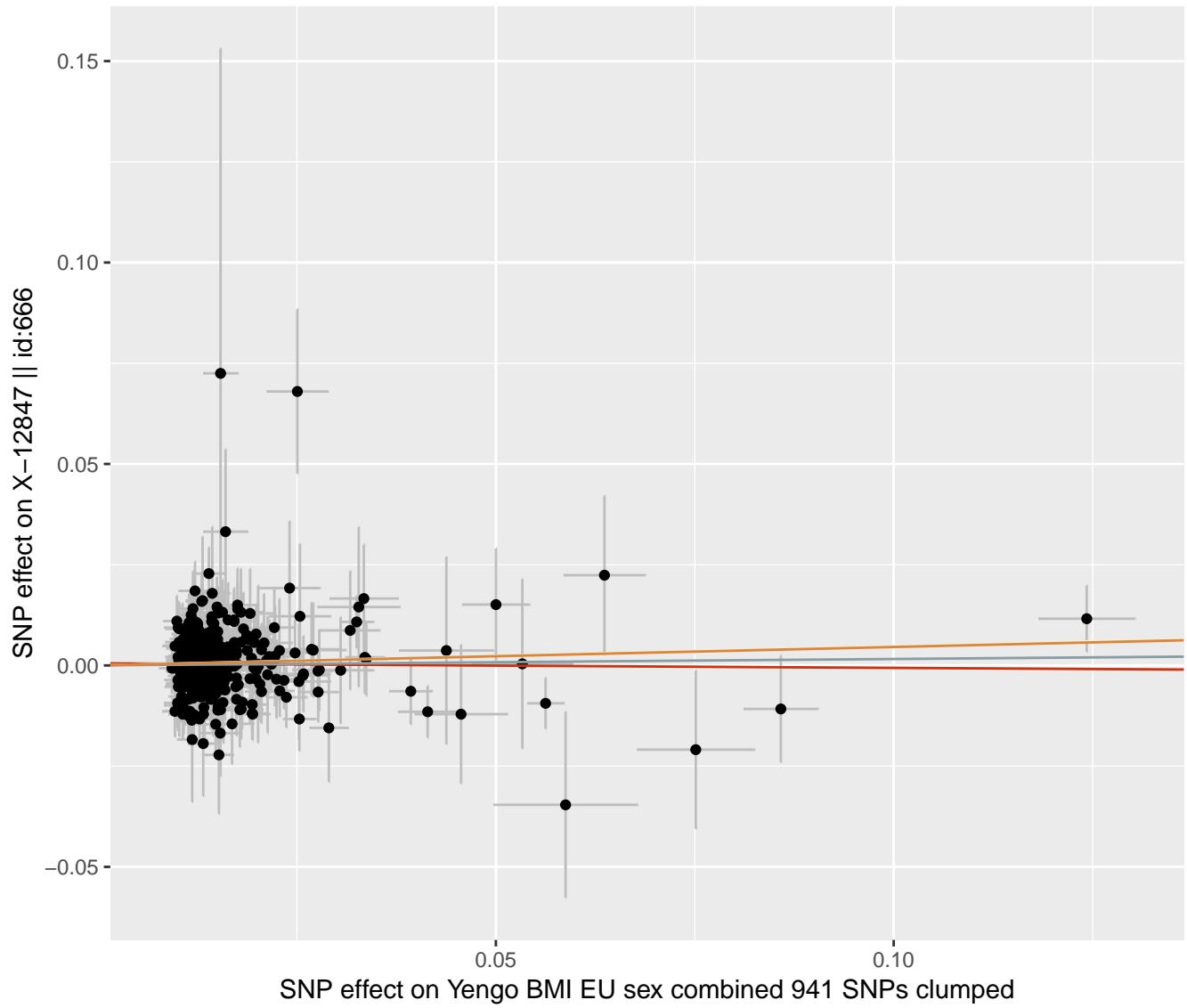
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



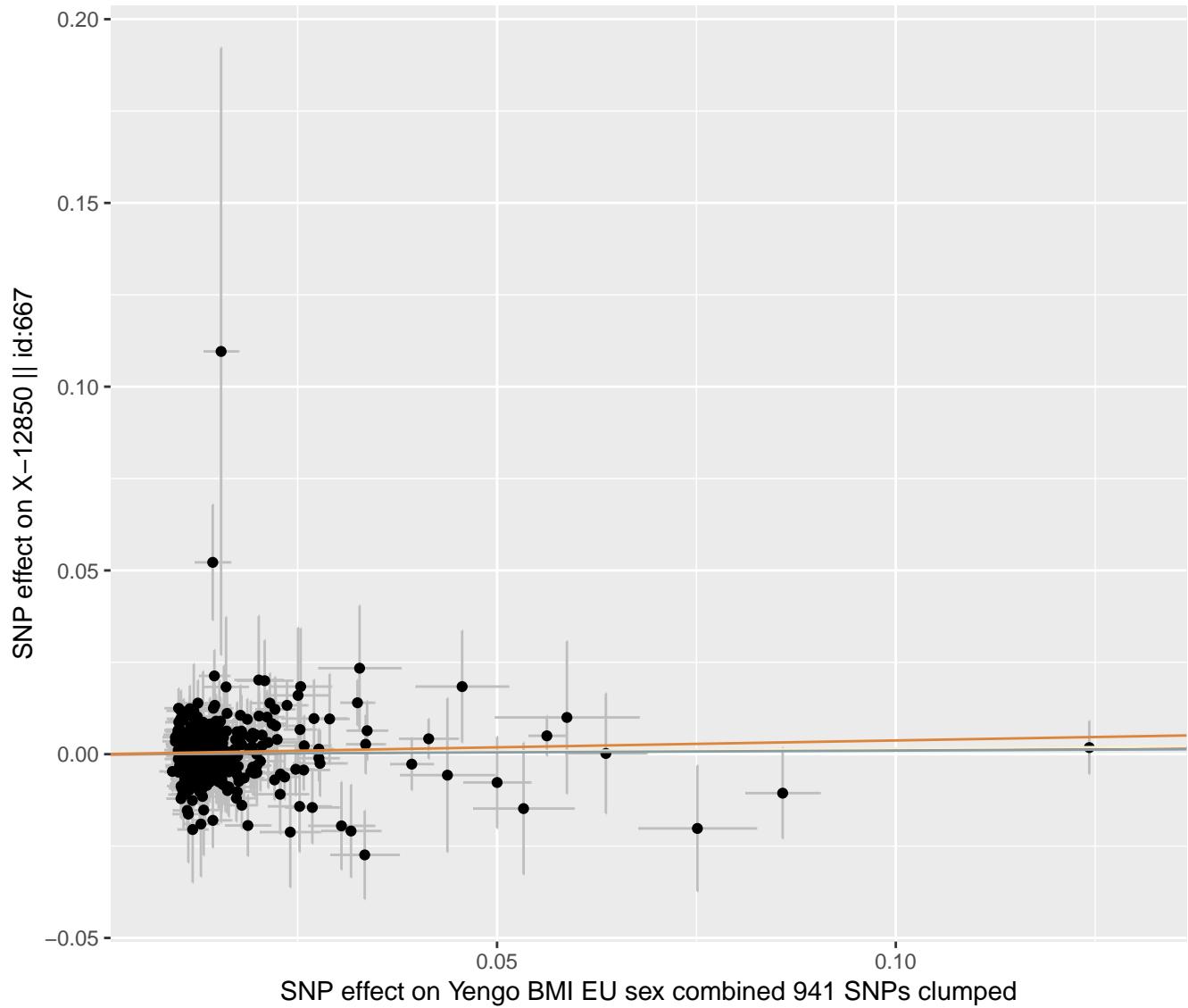
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

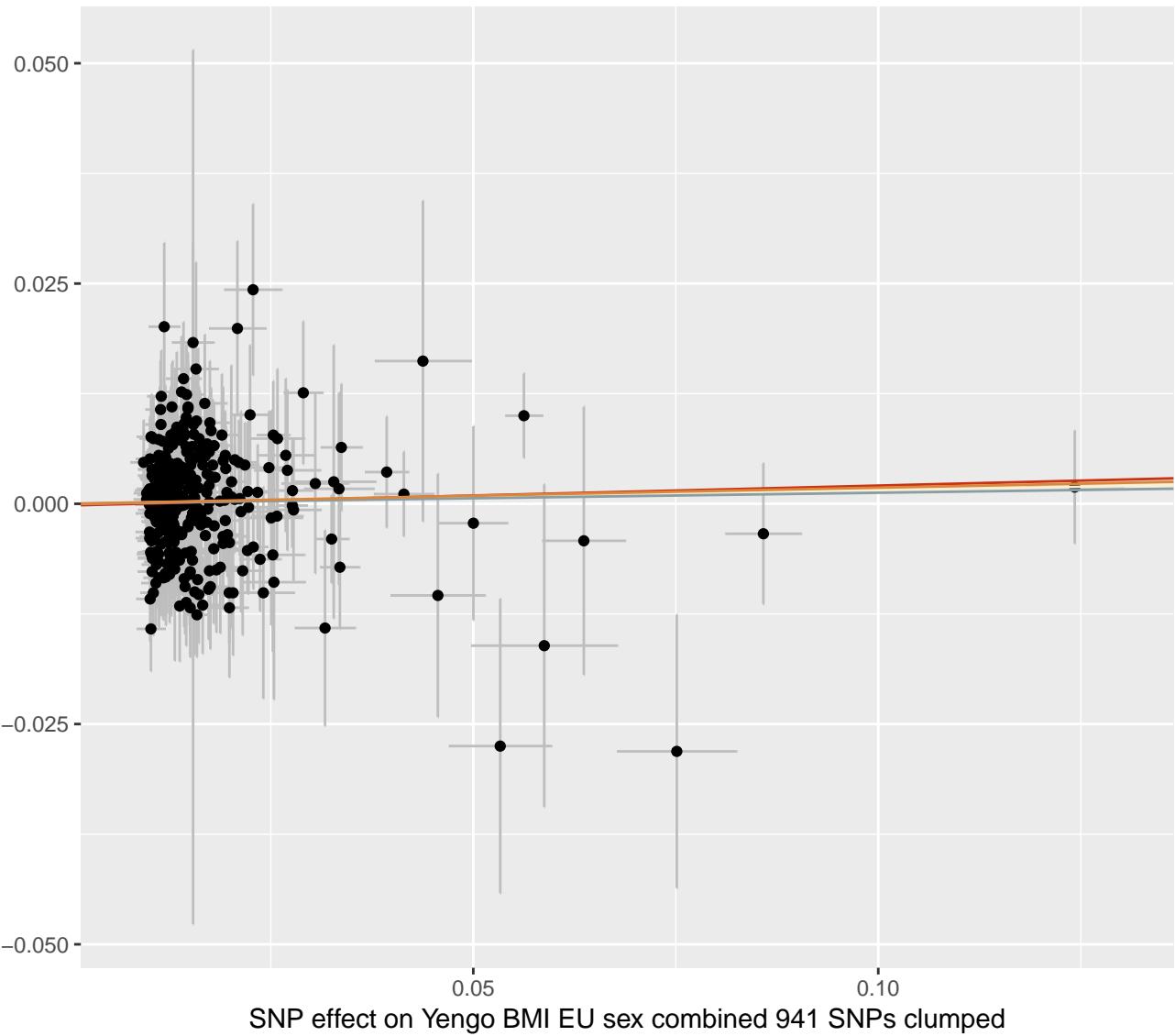


Weighted median



Weighted mode

SNP effect on Laurylcarnitine || id:668



### MR Test



Inverse variance weighted (multiplicative random effects)



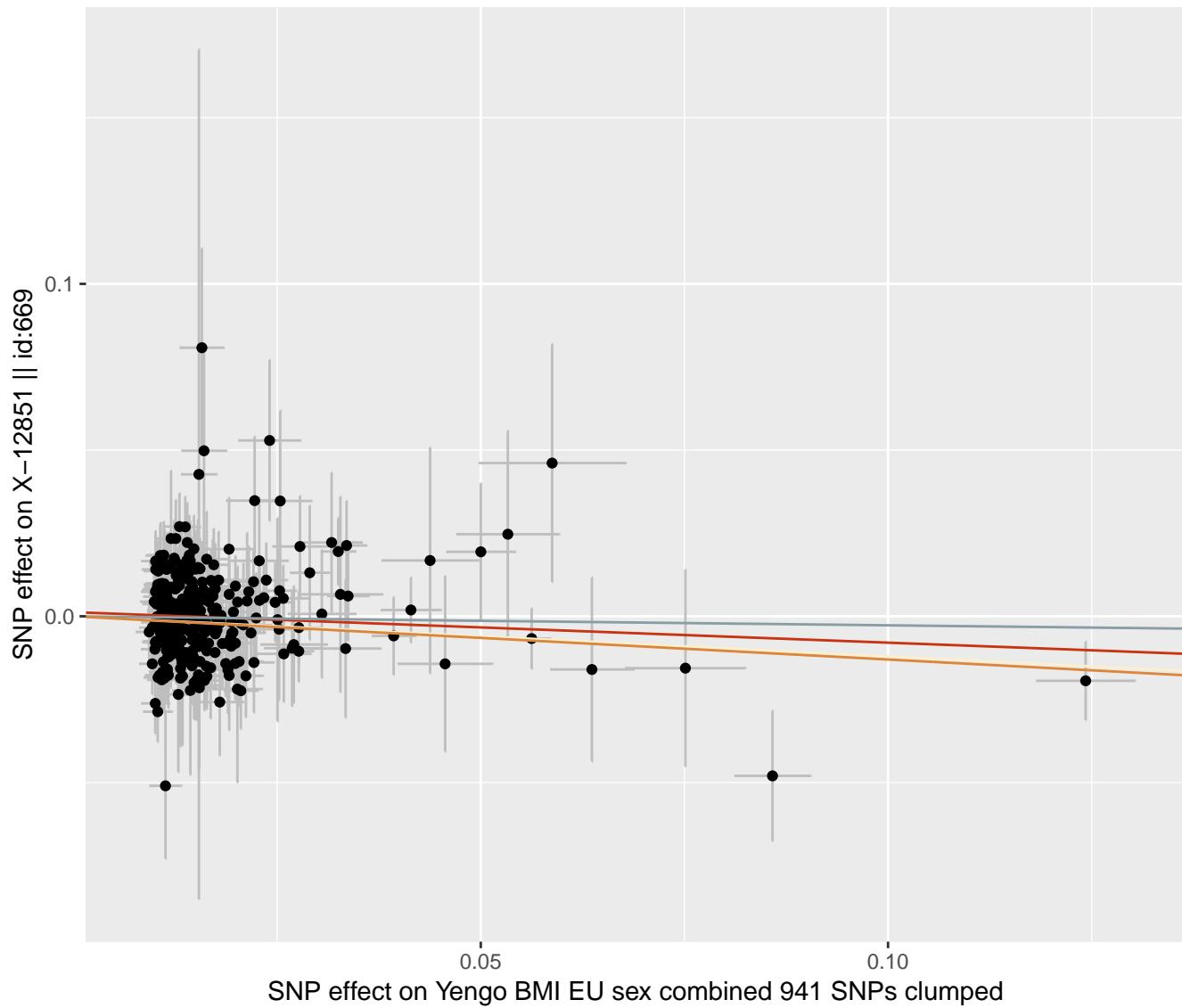
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



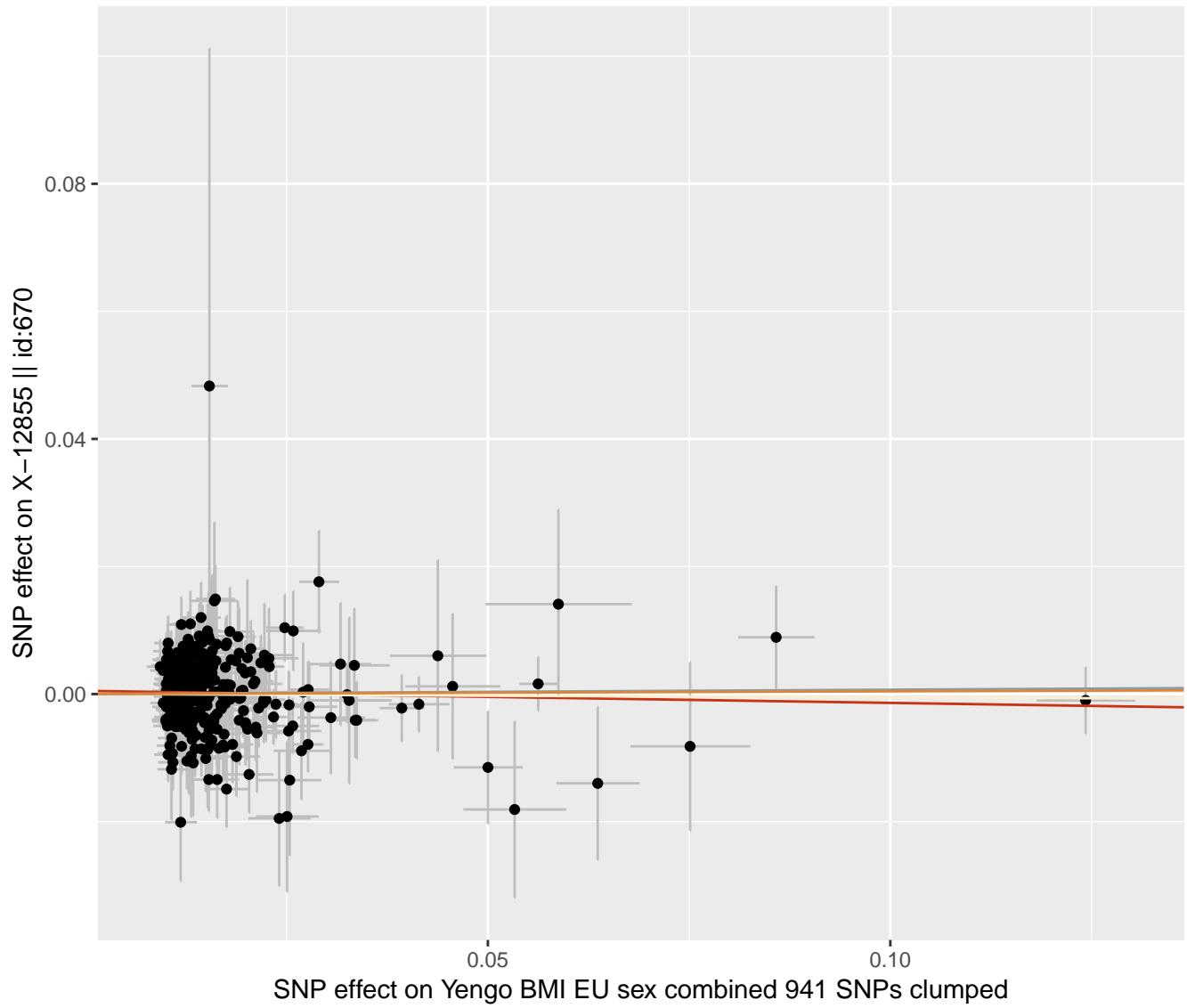
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

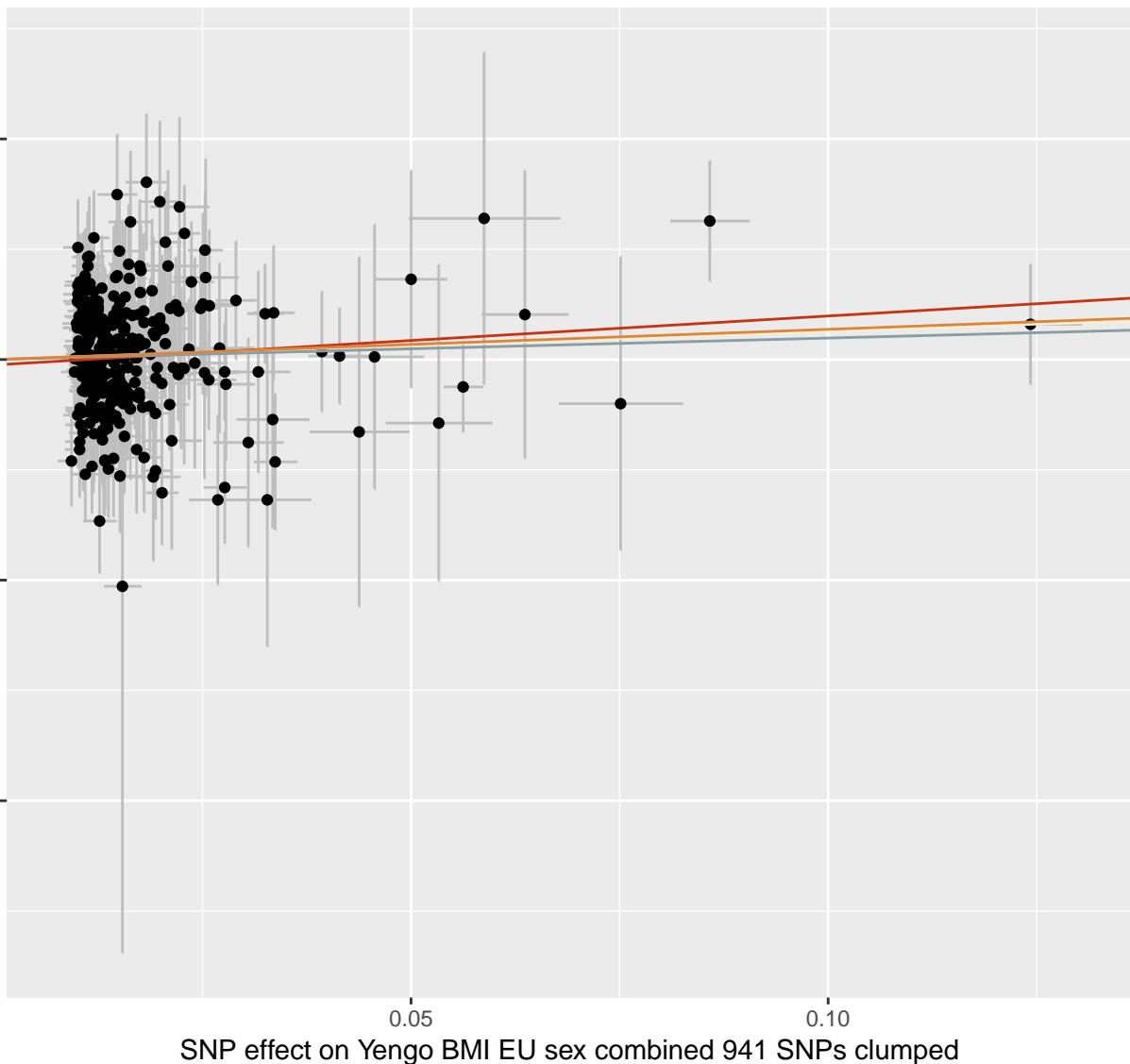


Weighted median



Weighted mode

SNP effect on X-12990-docosapentaenoic acid (n6-DPA) || id:671



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on Isovalerate || id:672

0.04

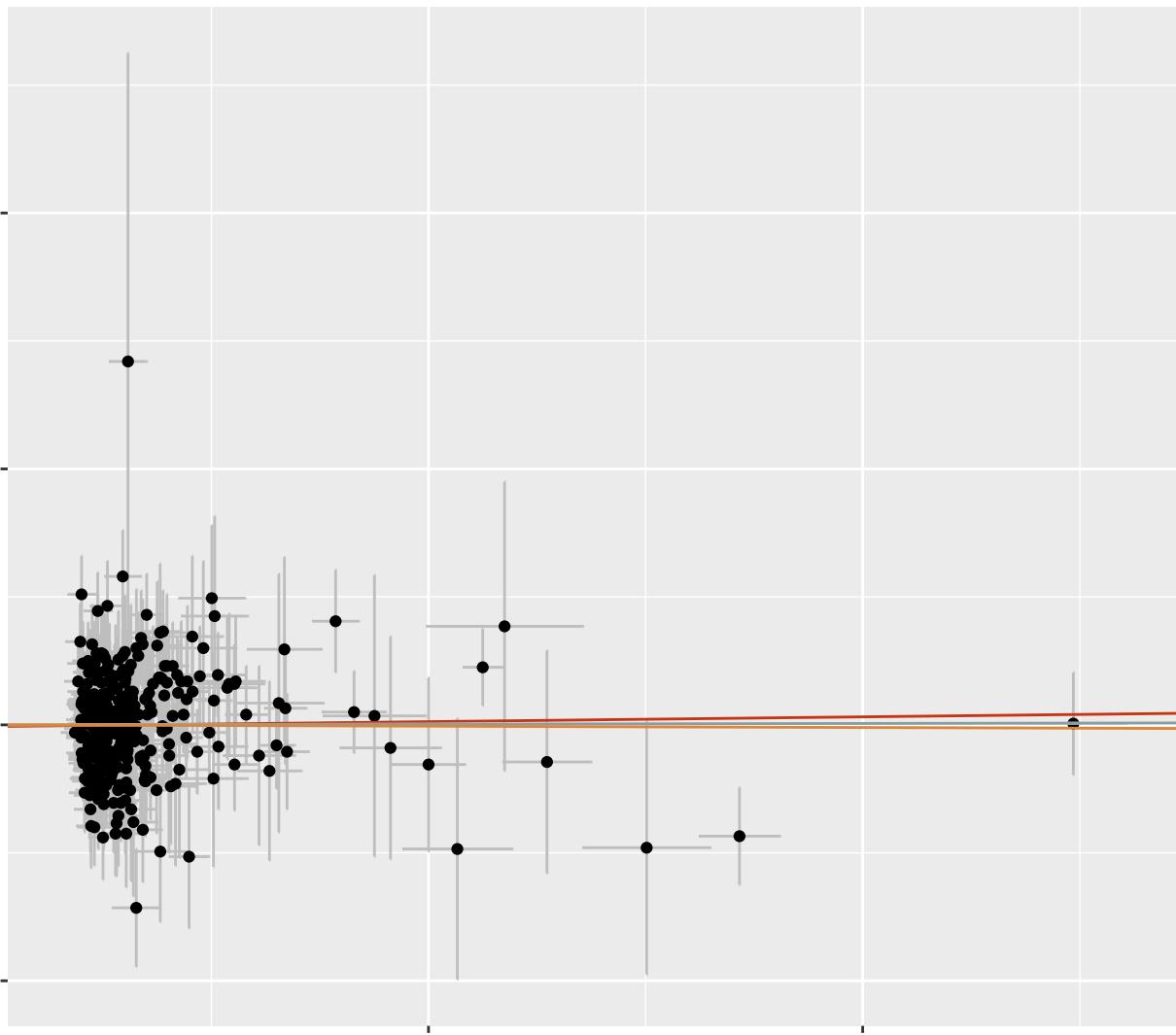
0.02

0.00

-0.02

0.05 0.10

SNP effect on Yengo BMI EU sex combined 941 SNPs clumped



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

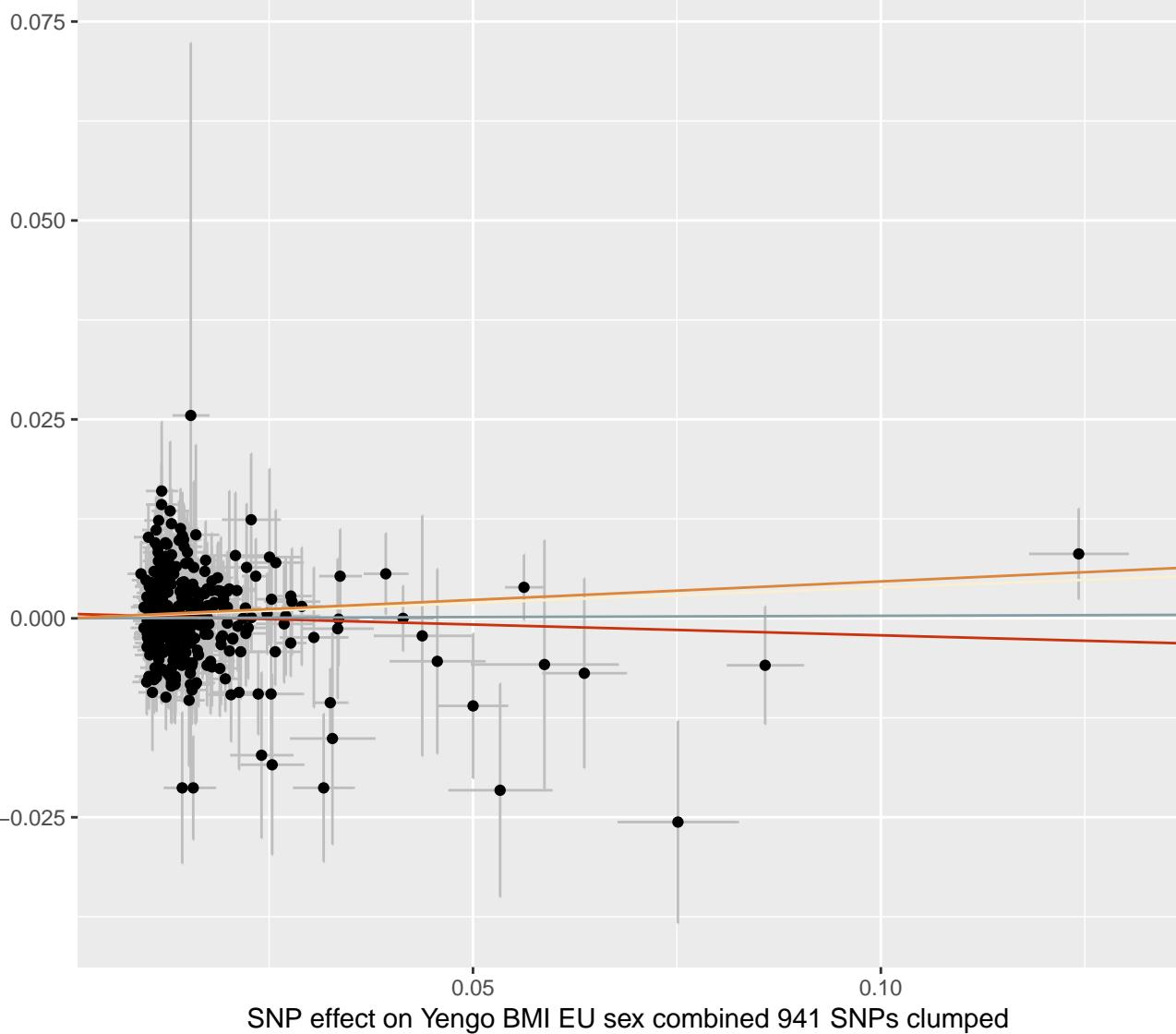


Weighted median



Weighted mode

SNP effect on X-13069 || id:673



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

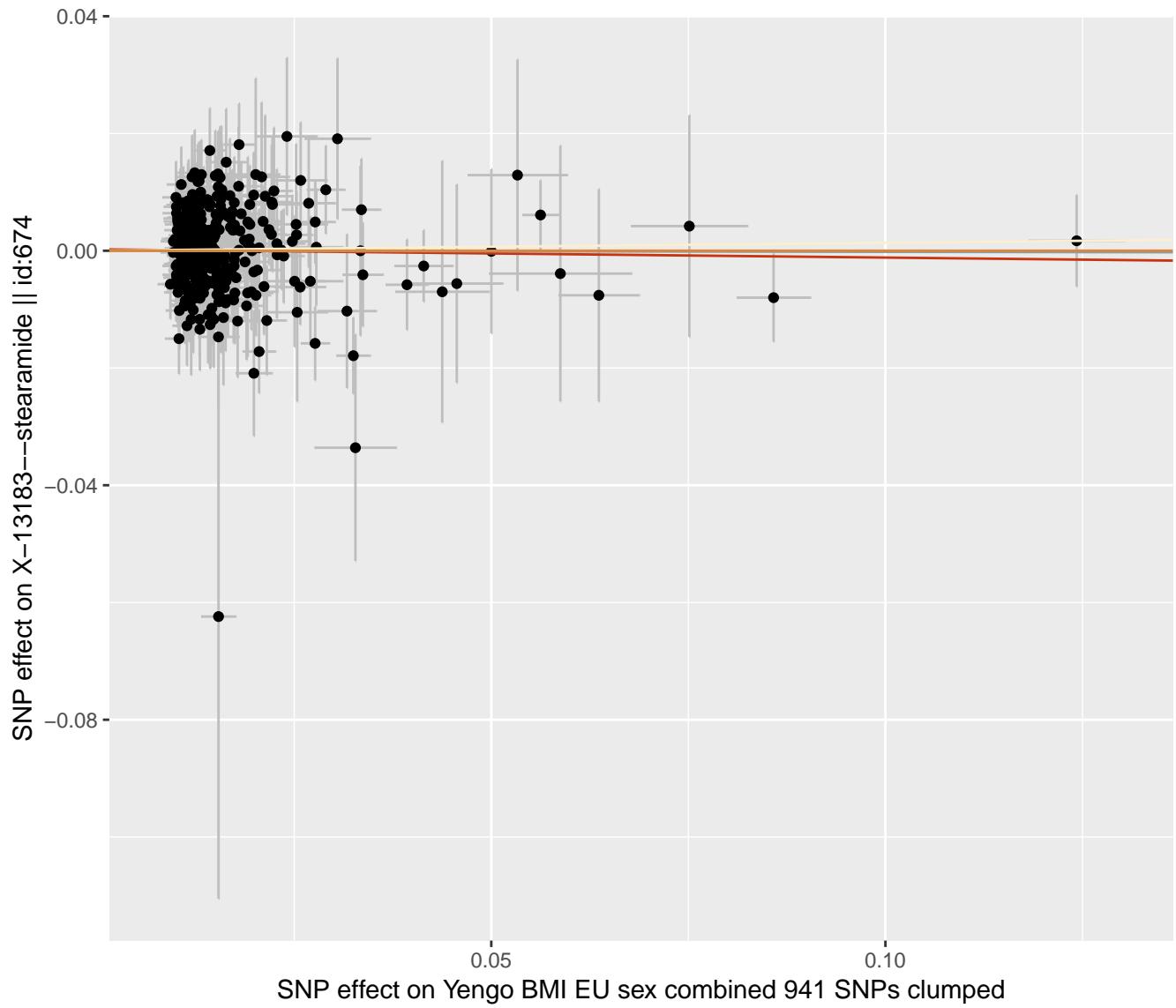
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



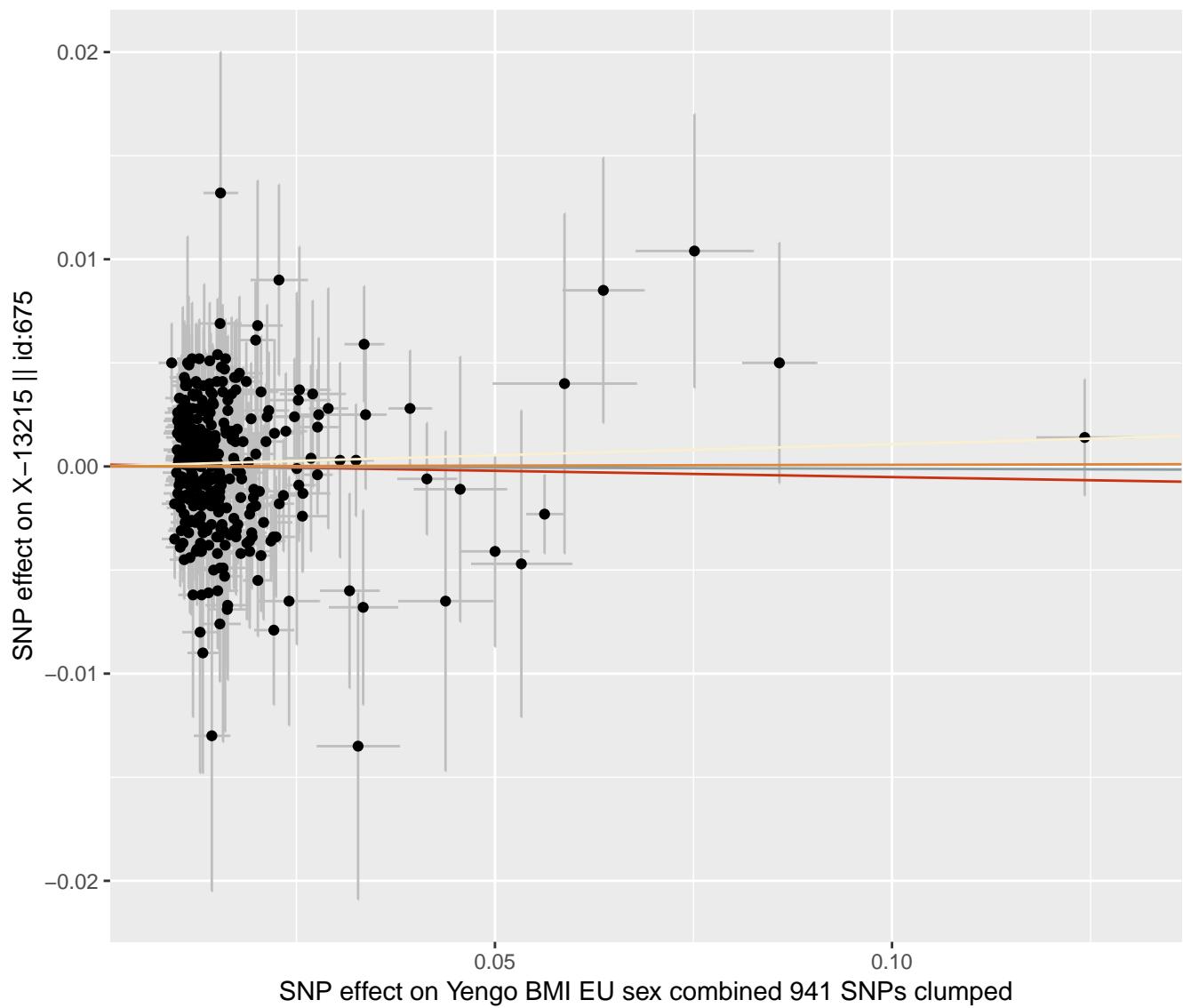
MR Egger



Weighted median

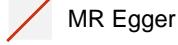


Weighted mode

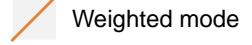


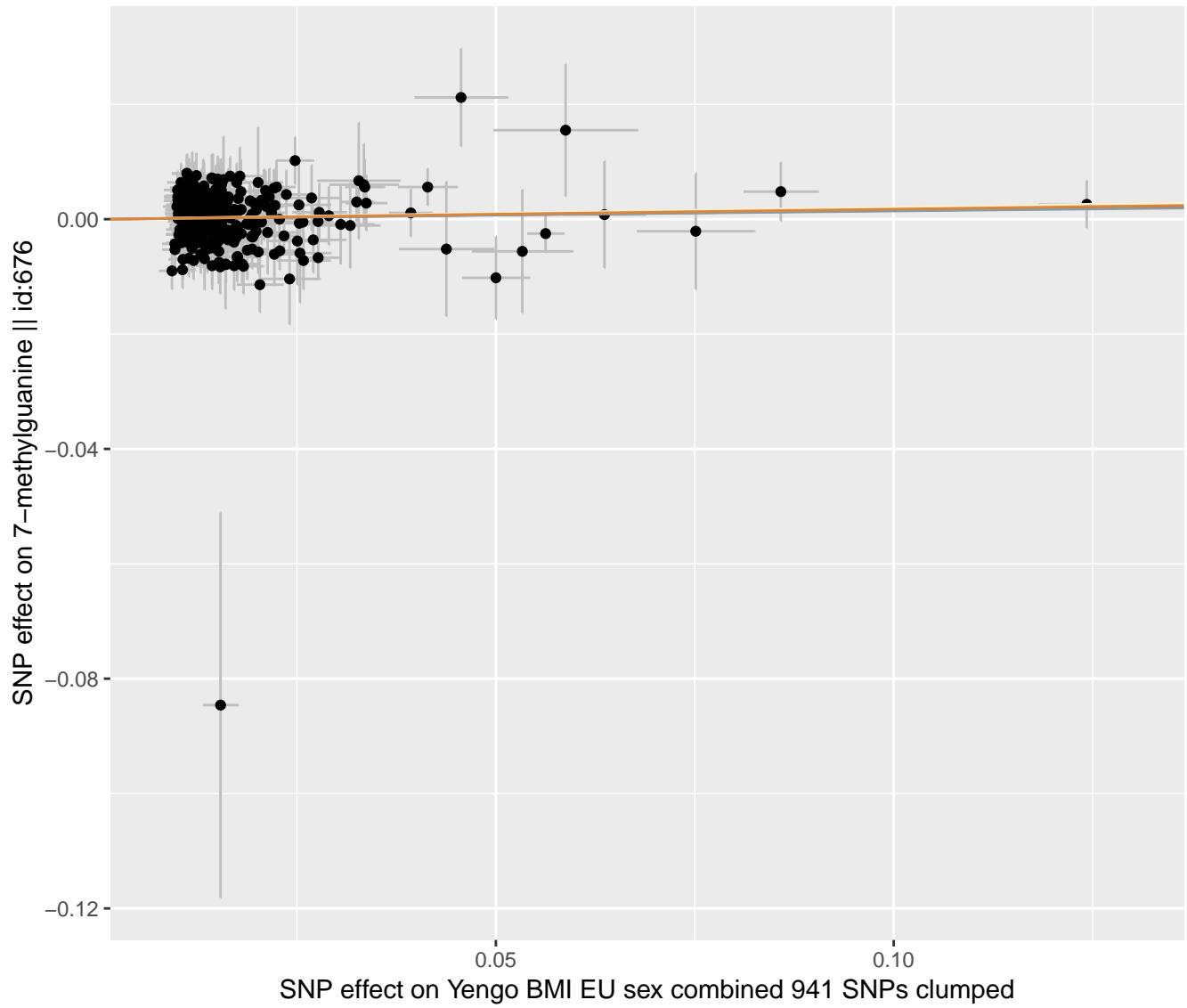
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



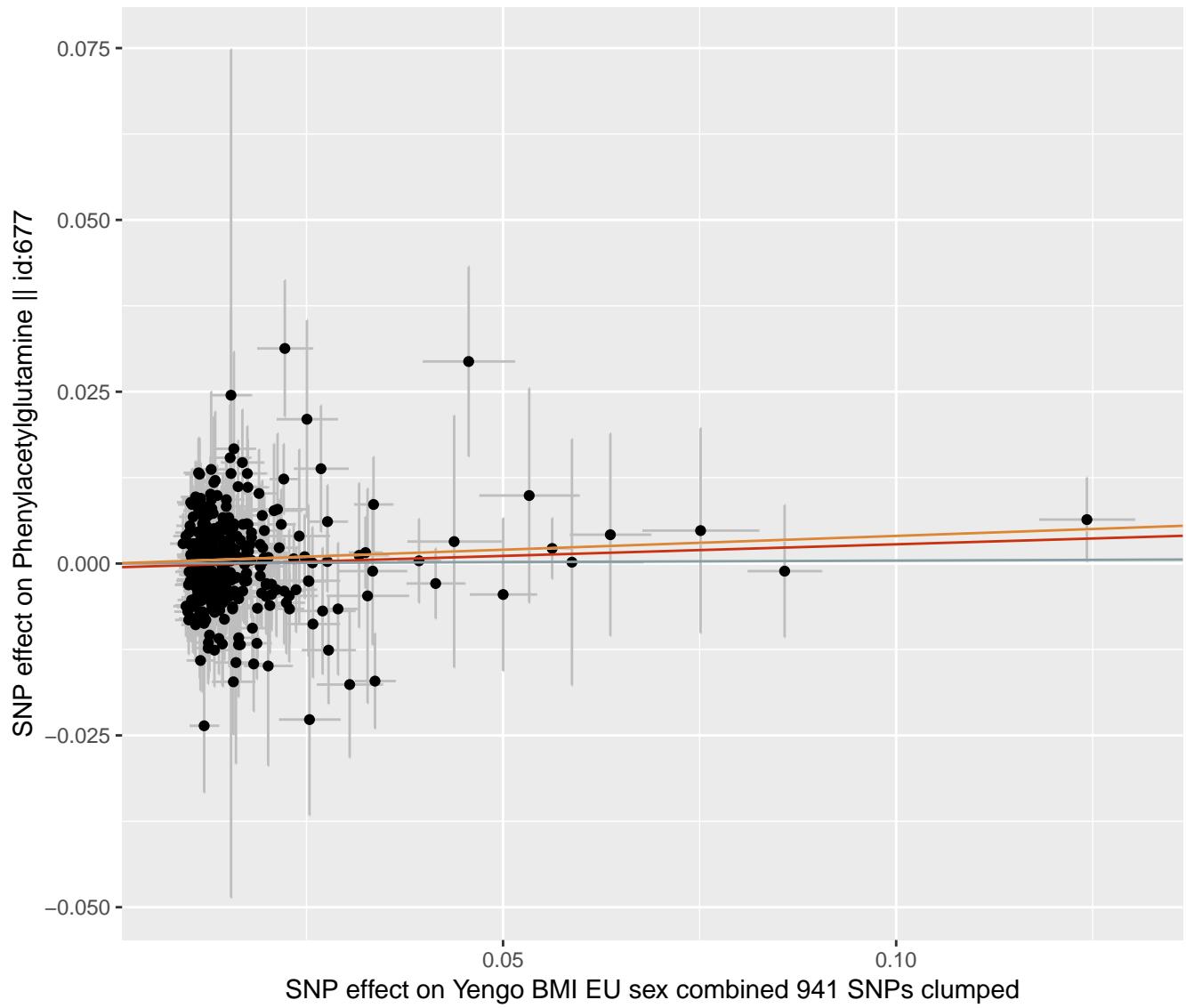
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



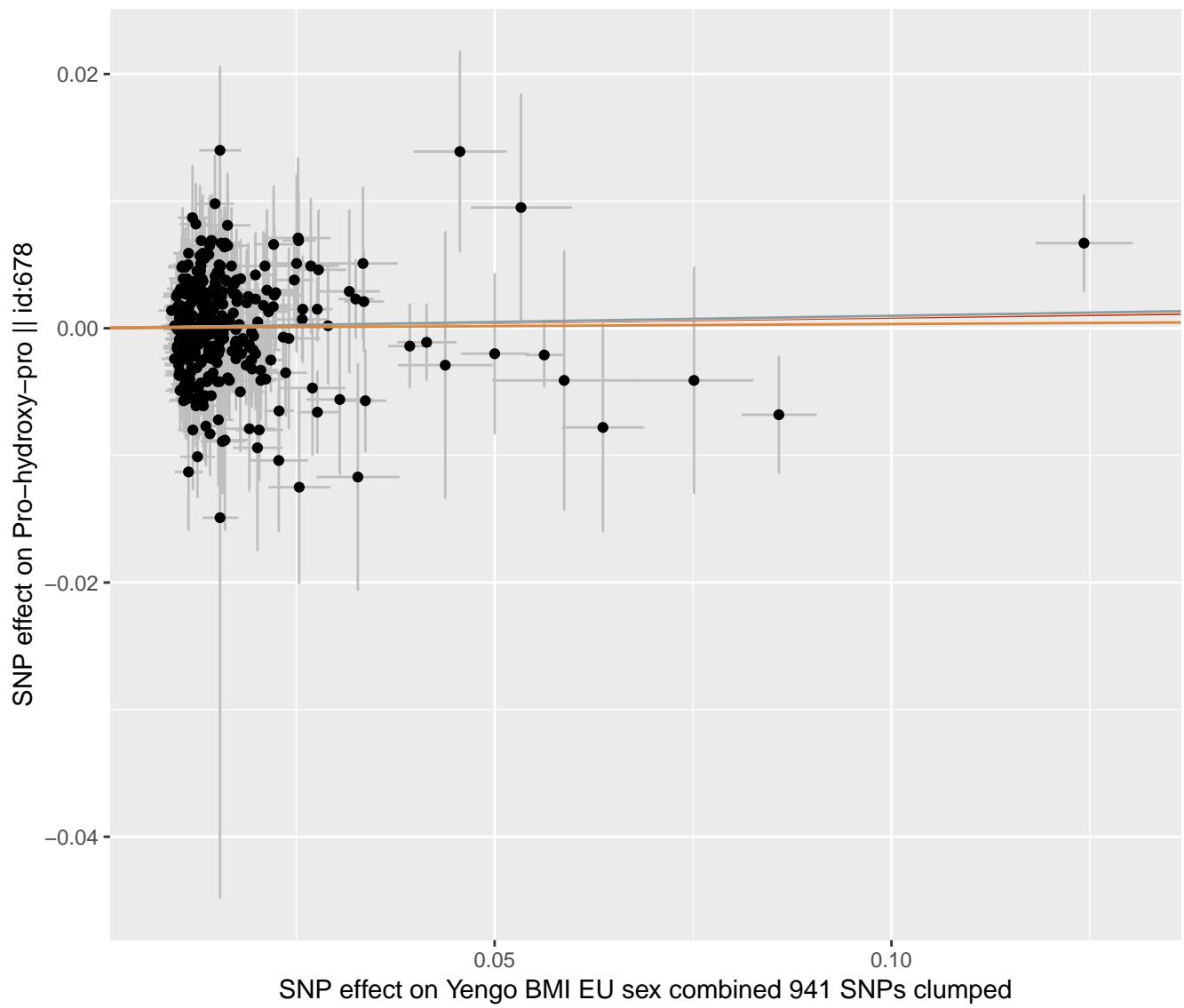
MR Egger



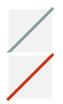
Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



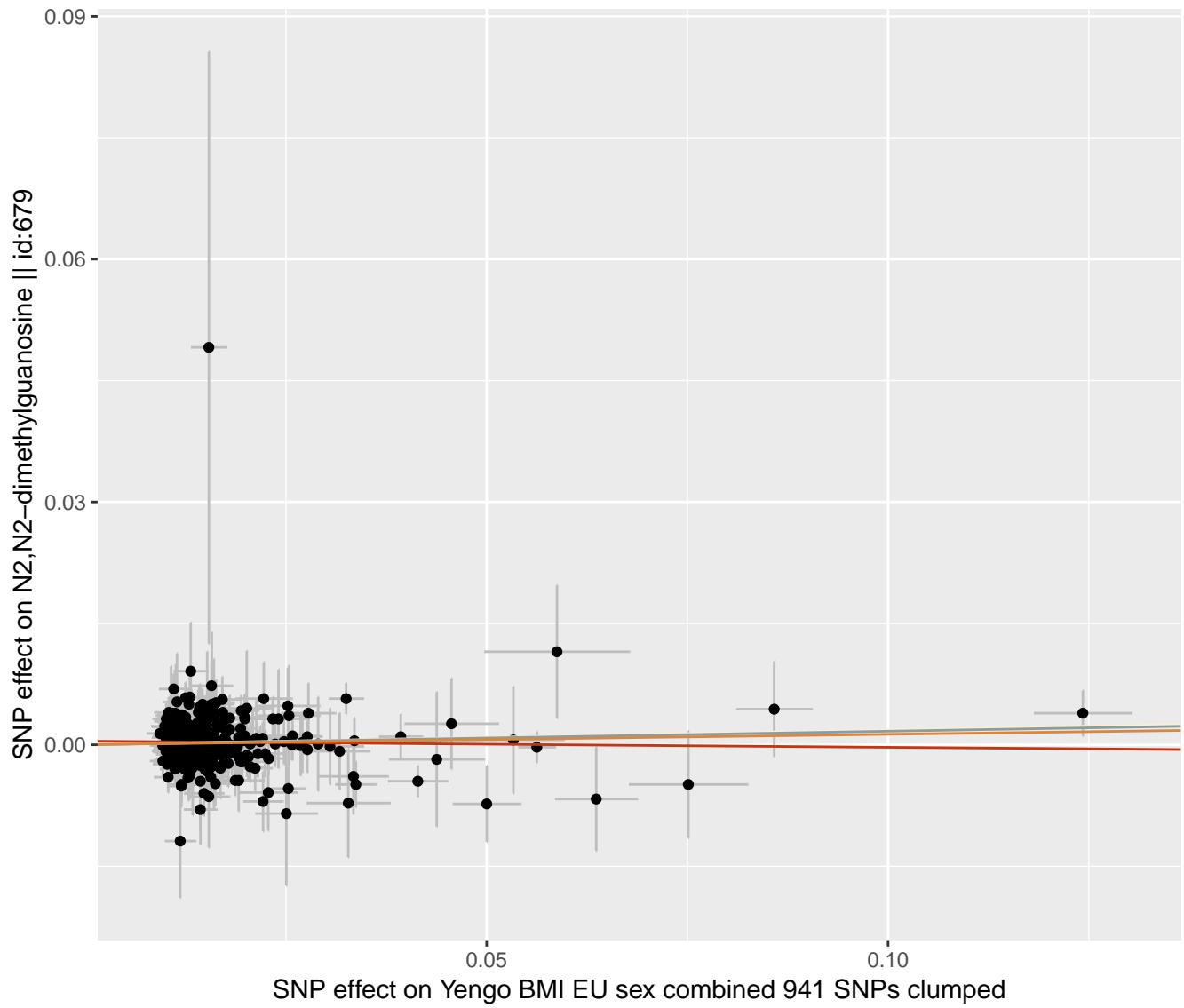
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

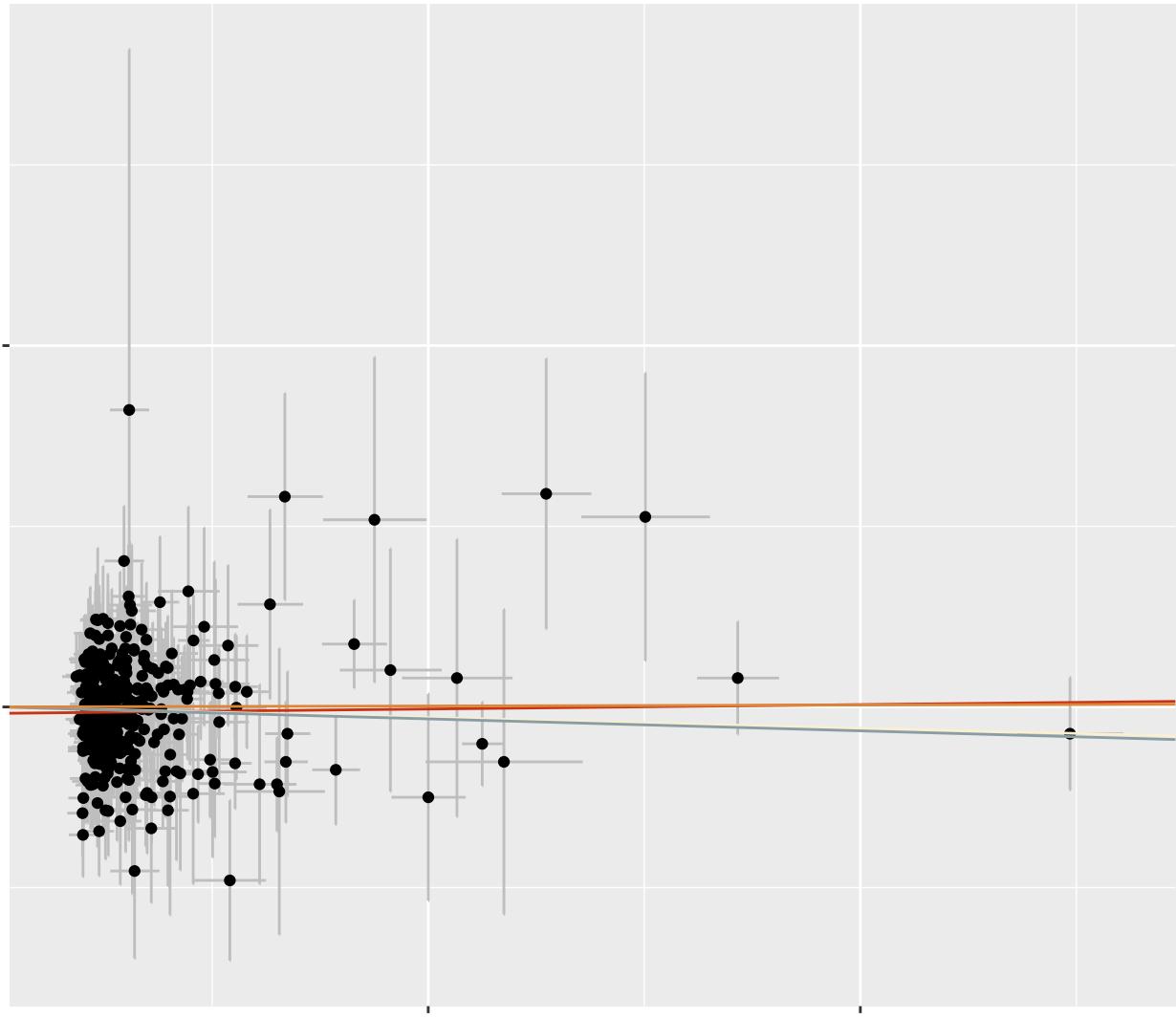


Weighted median



Weighted mode

SNP effect on Cysteine-glutathione disulfide || id:680



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

### MR Test



Inverse variance weighted (multiplicative random effects)



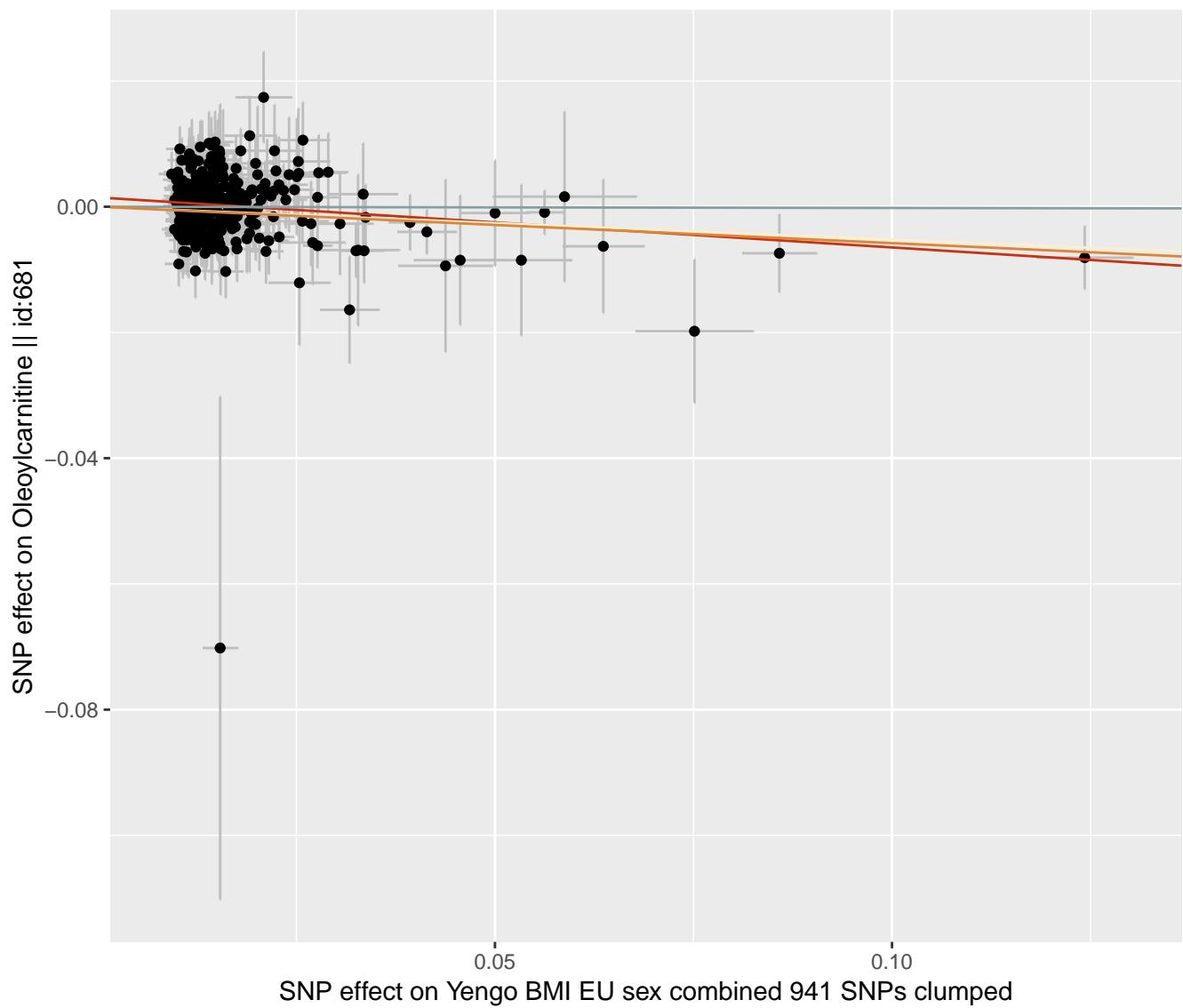
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



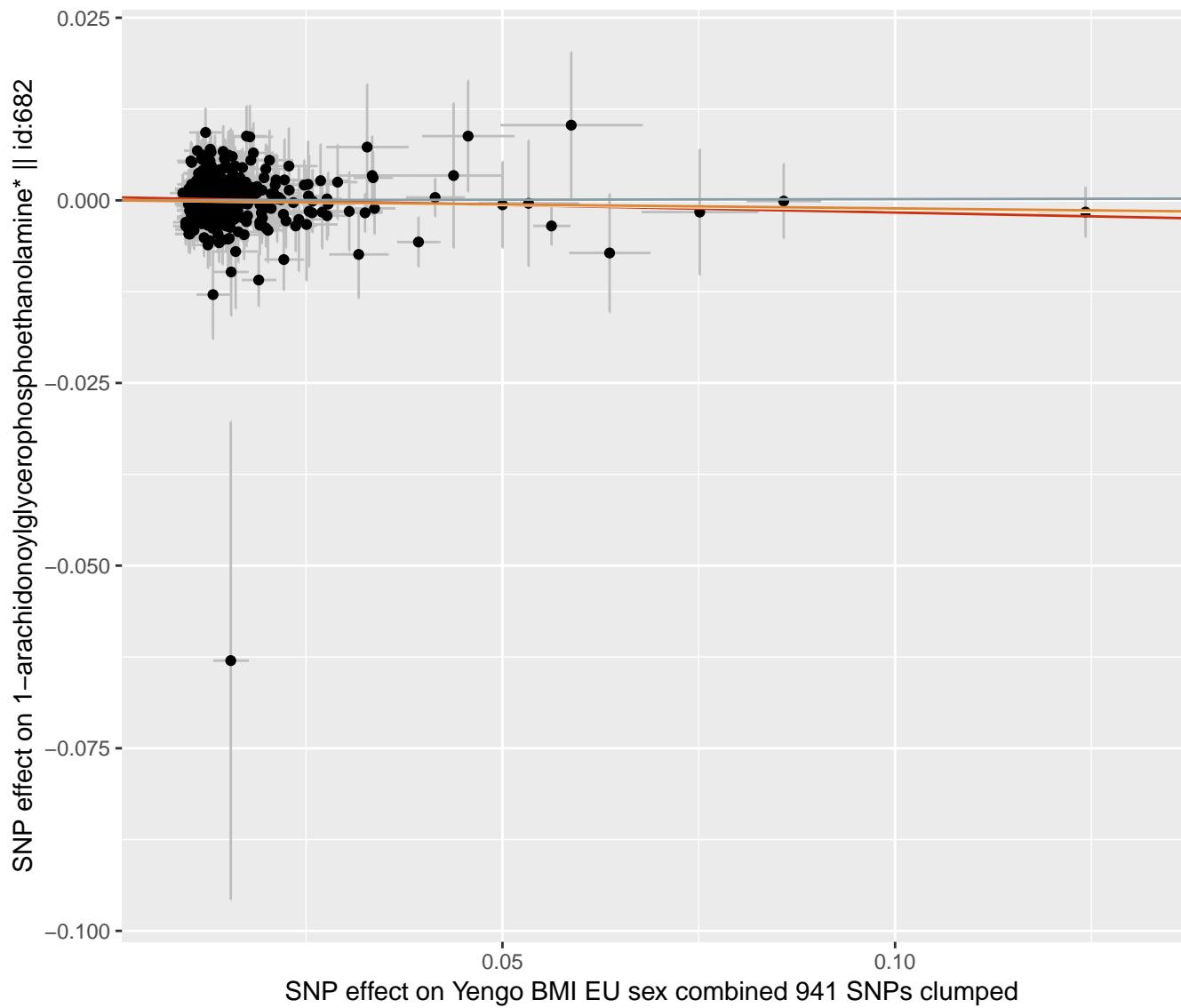
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



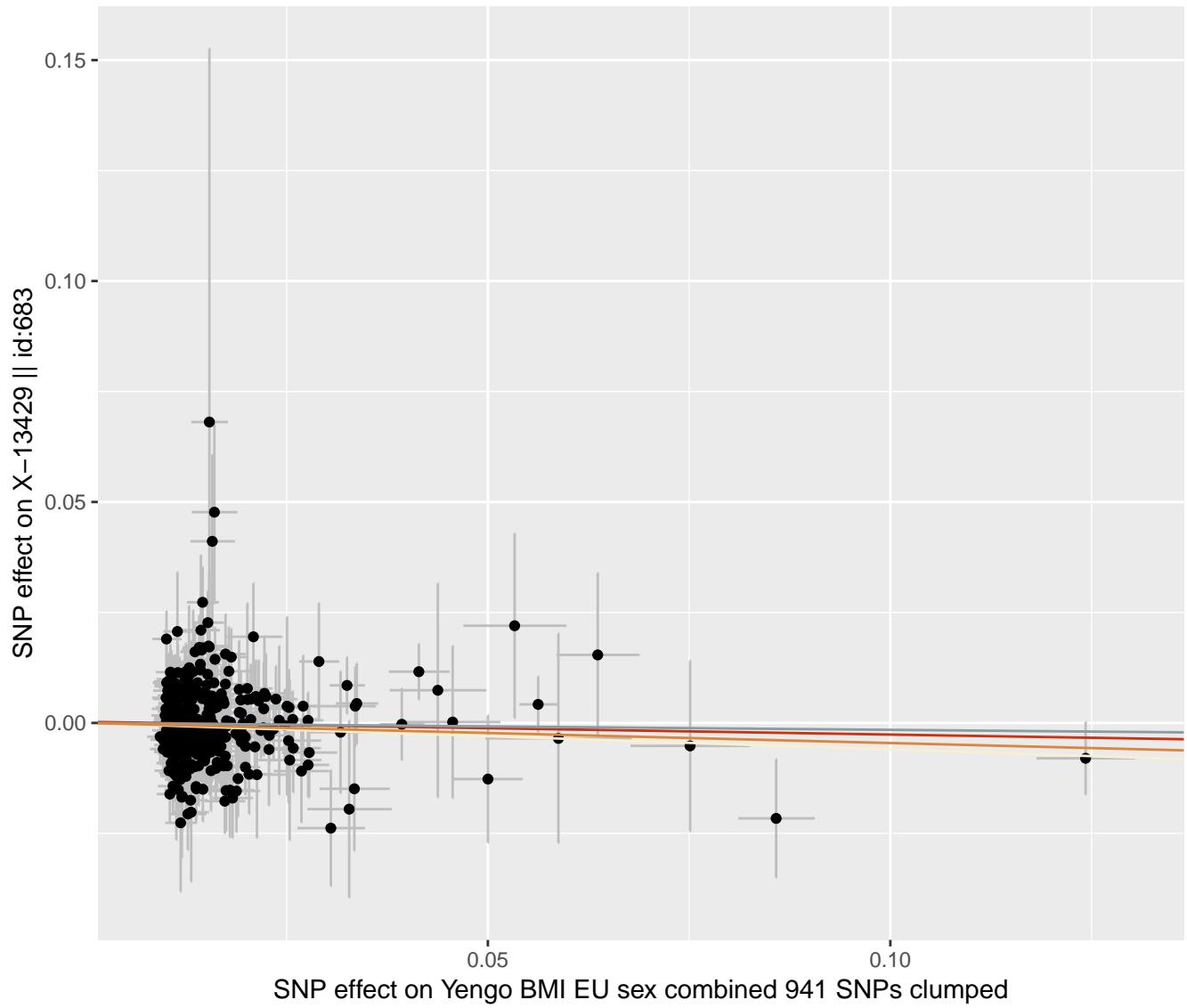
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

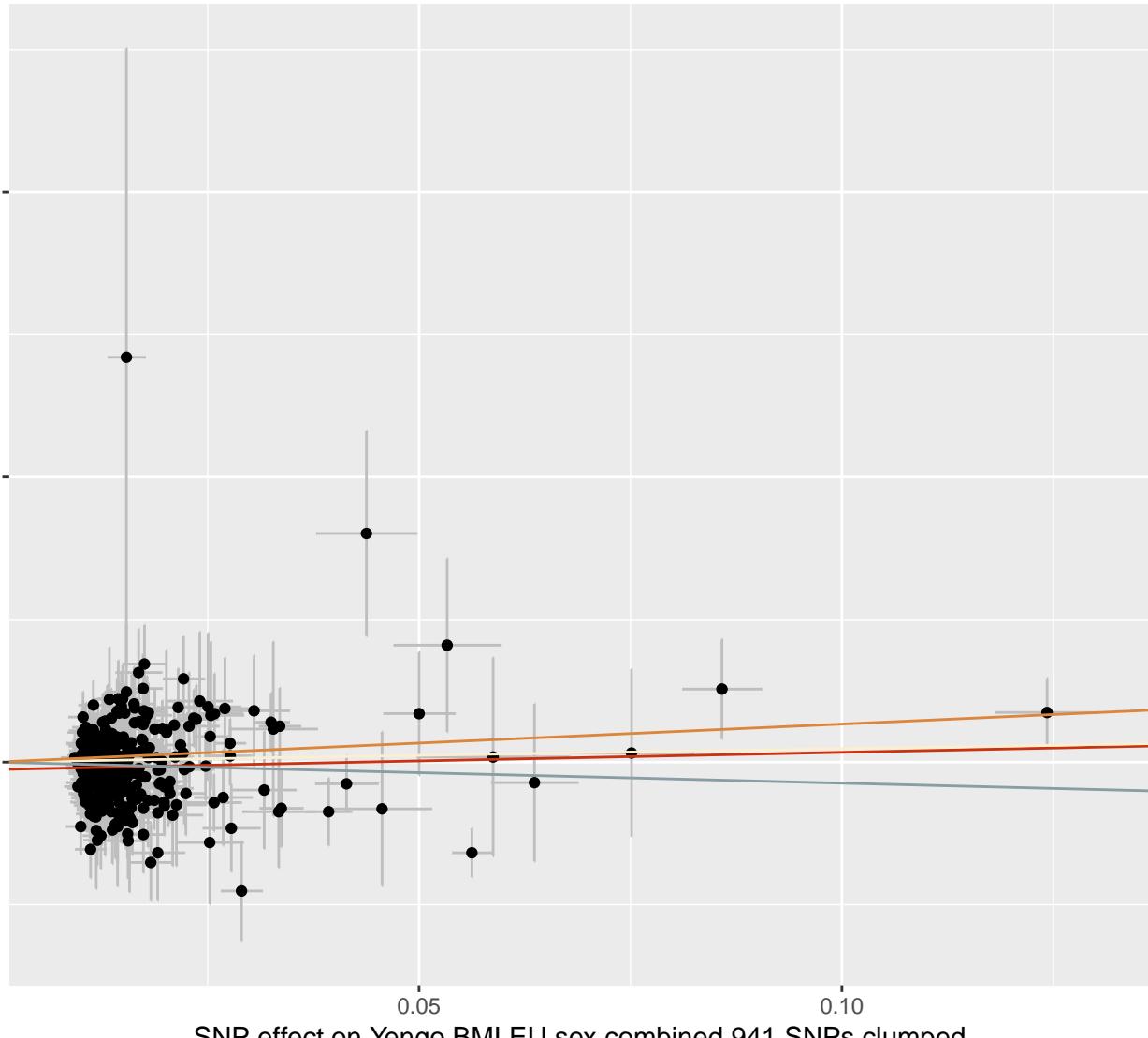


Weighted median



Weighted mode

SNP effect on X-13431--nonanoylcarnitine\* || id:684



### MR Test



Inverse variance weighted (multiplicative random effects)



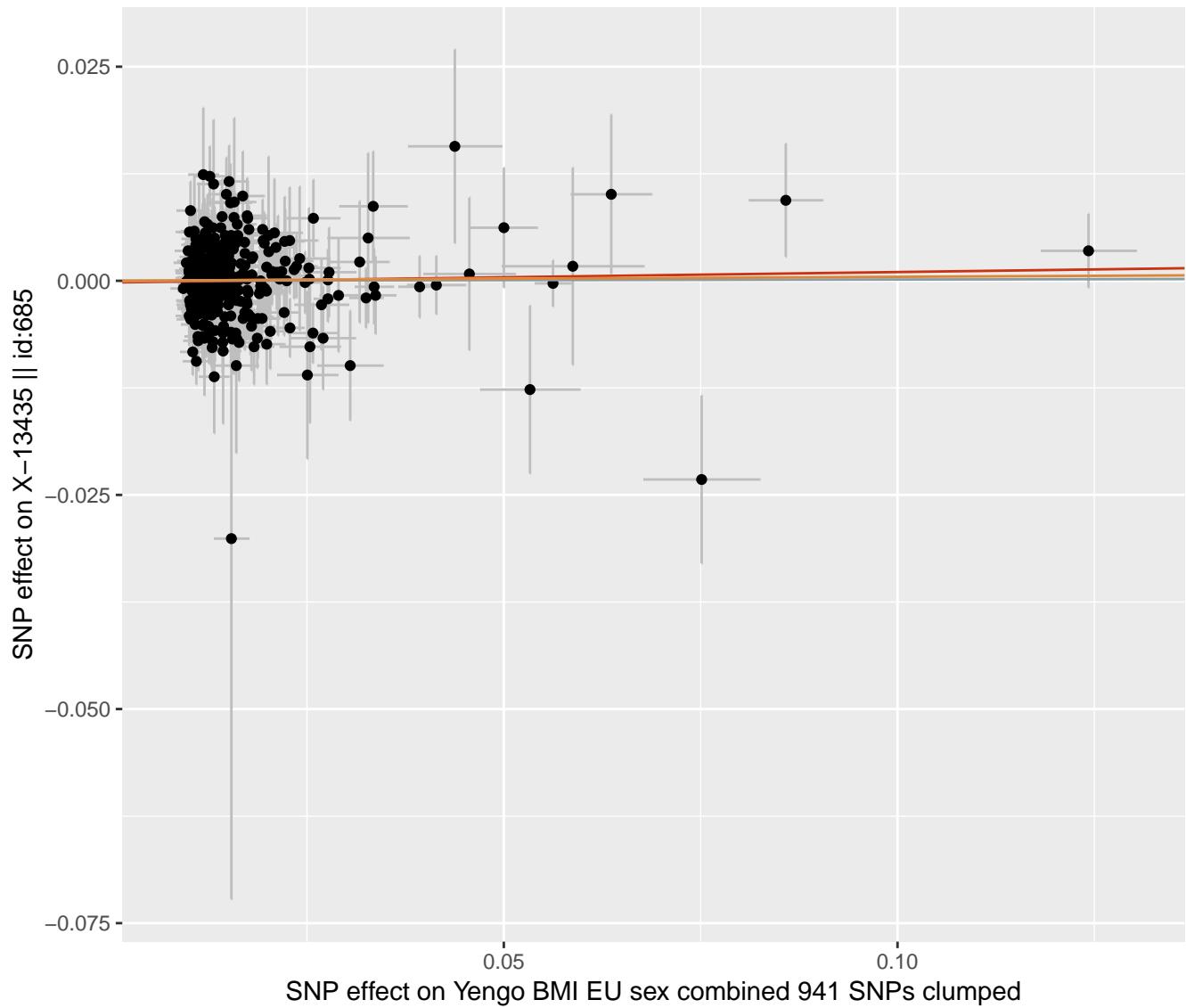
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on X-13477 || id:686

0.025

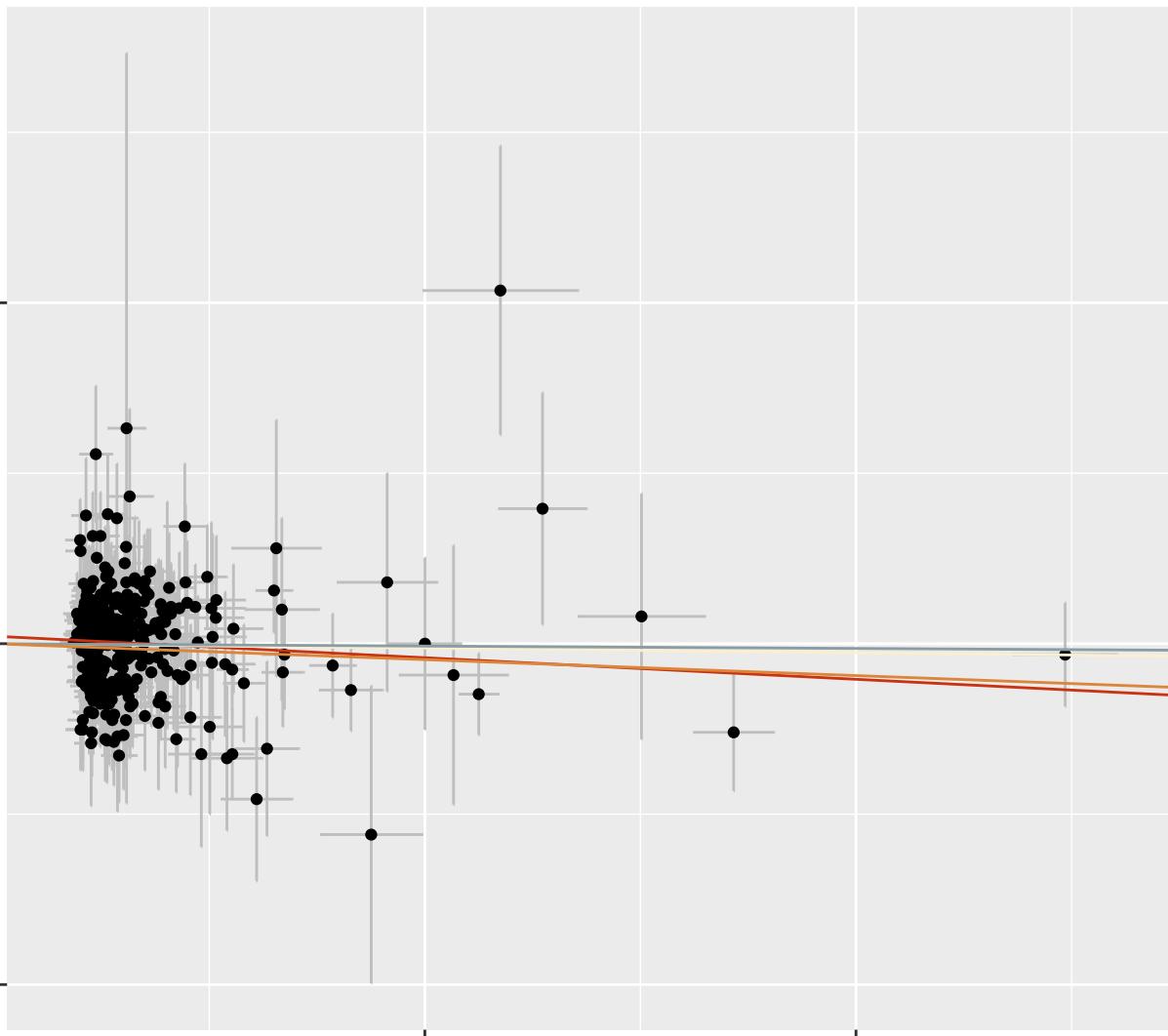
0.000

-0.025

0.05

0.10

SNP effect on Yengo BMI EU sex combined 941 SNPs clumped



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

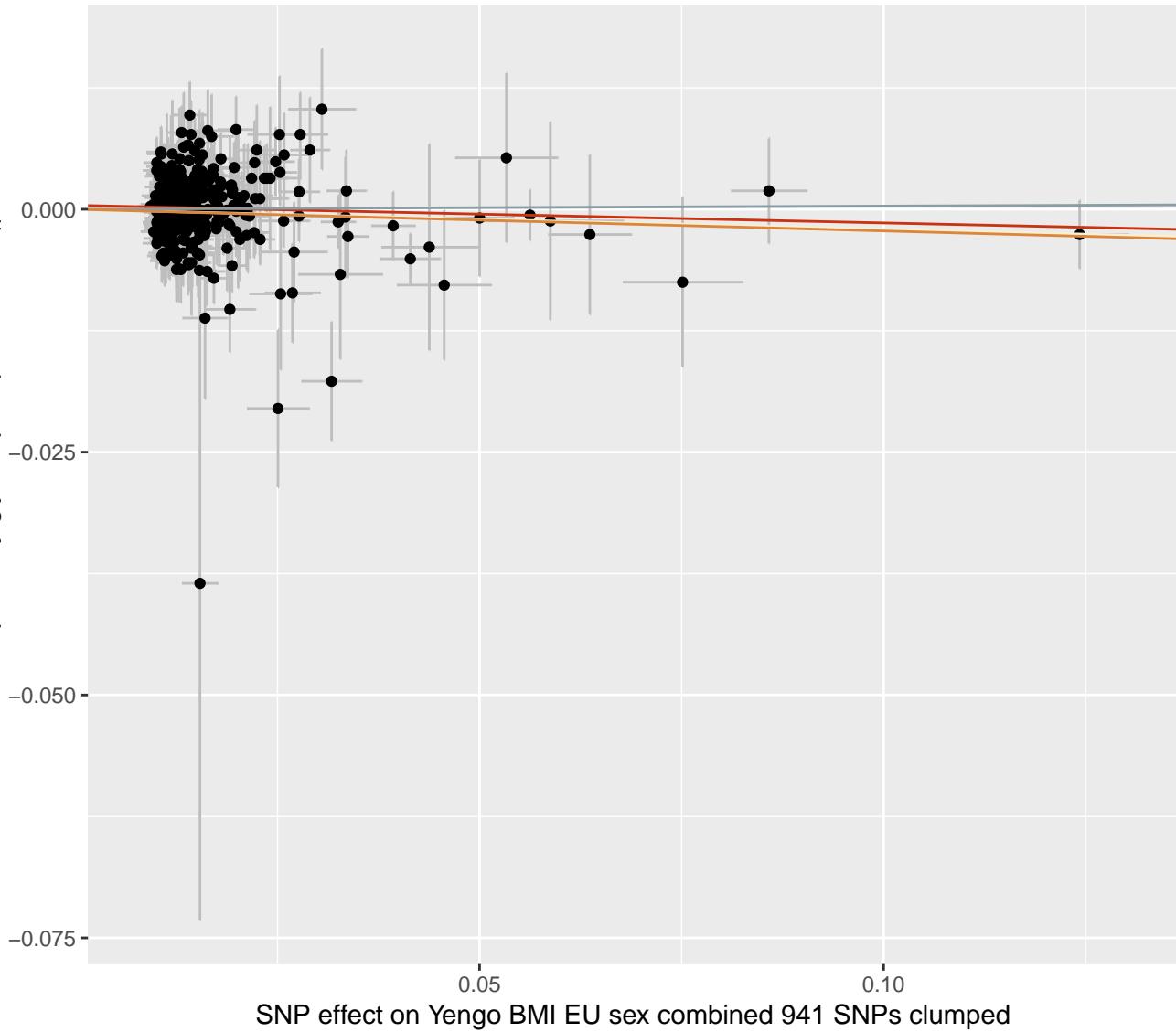


Weighted median



Weighted mode

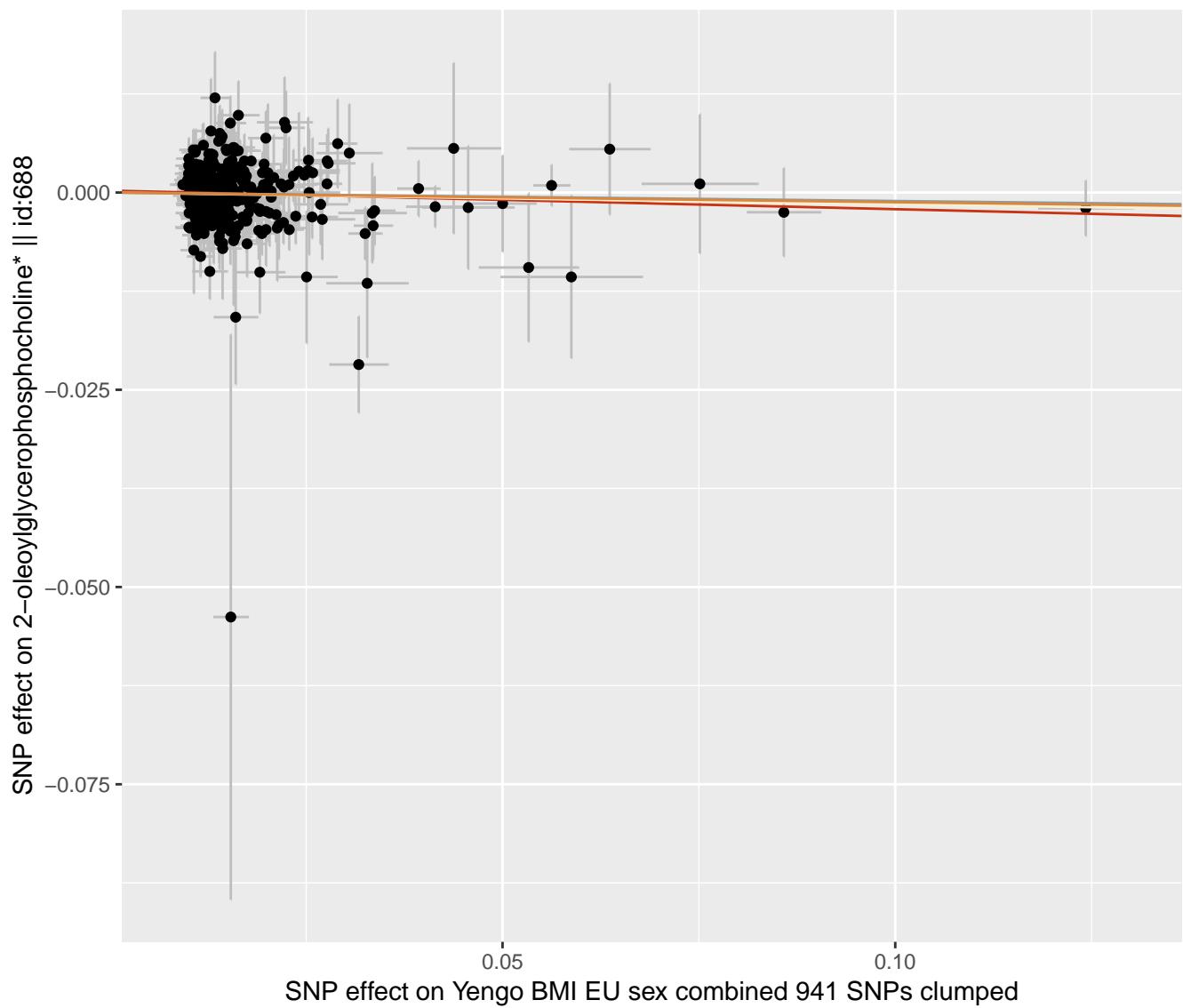
SNP effect on 2-palmitoylglycerophosphocholine\* || id:687



## MR Test

## Inverse variance weighted (multiplicative random effects) MR Egger

Weighted median  
Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



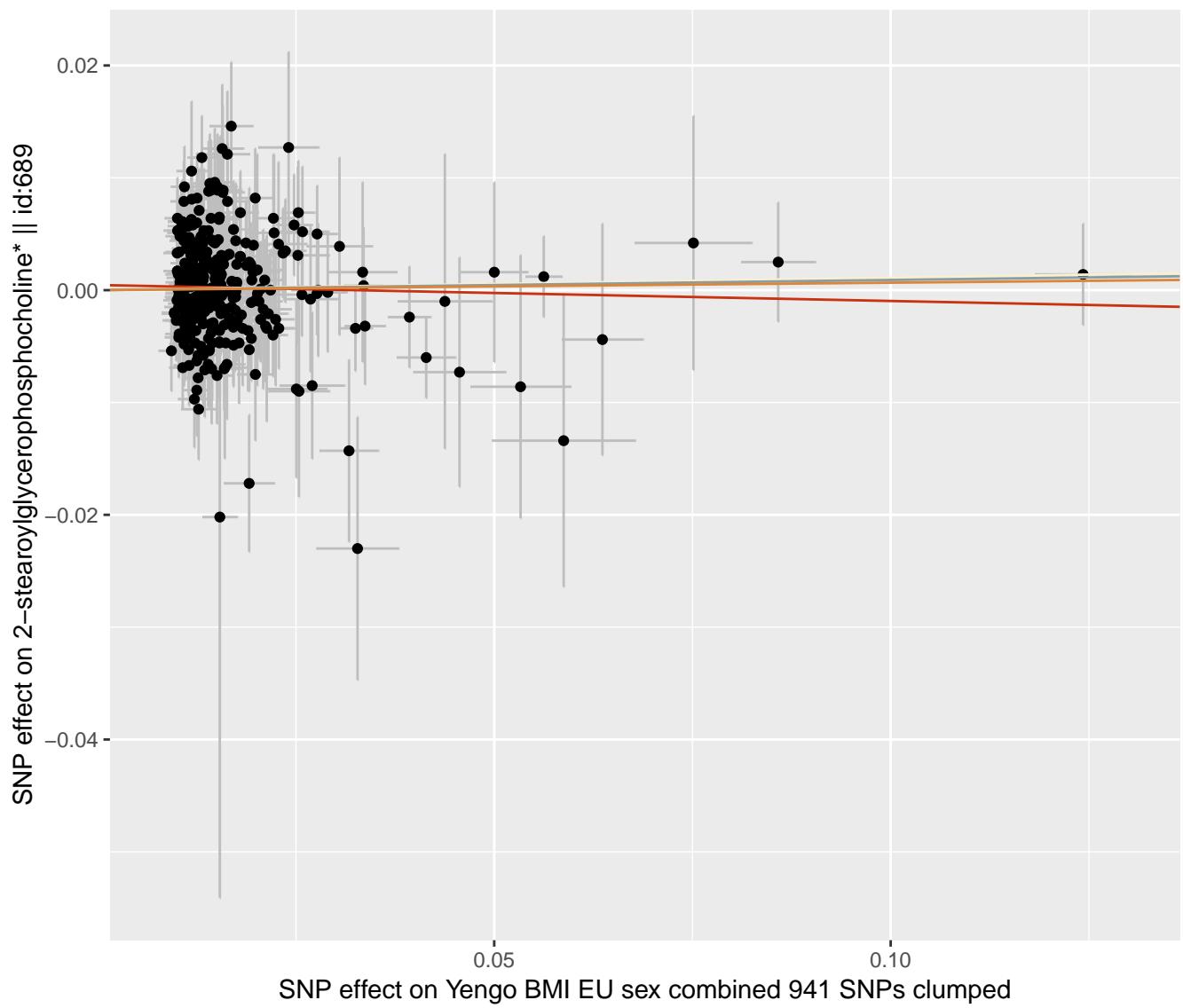
MR Egger



Weighted median

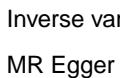


Weighted mode

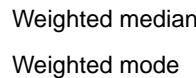


## MR Test

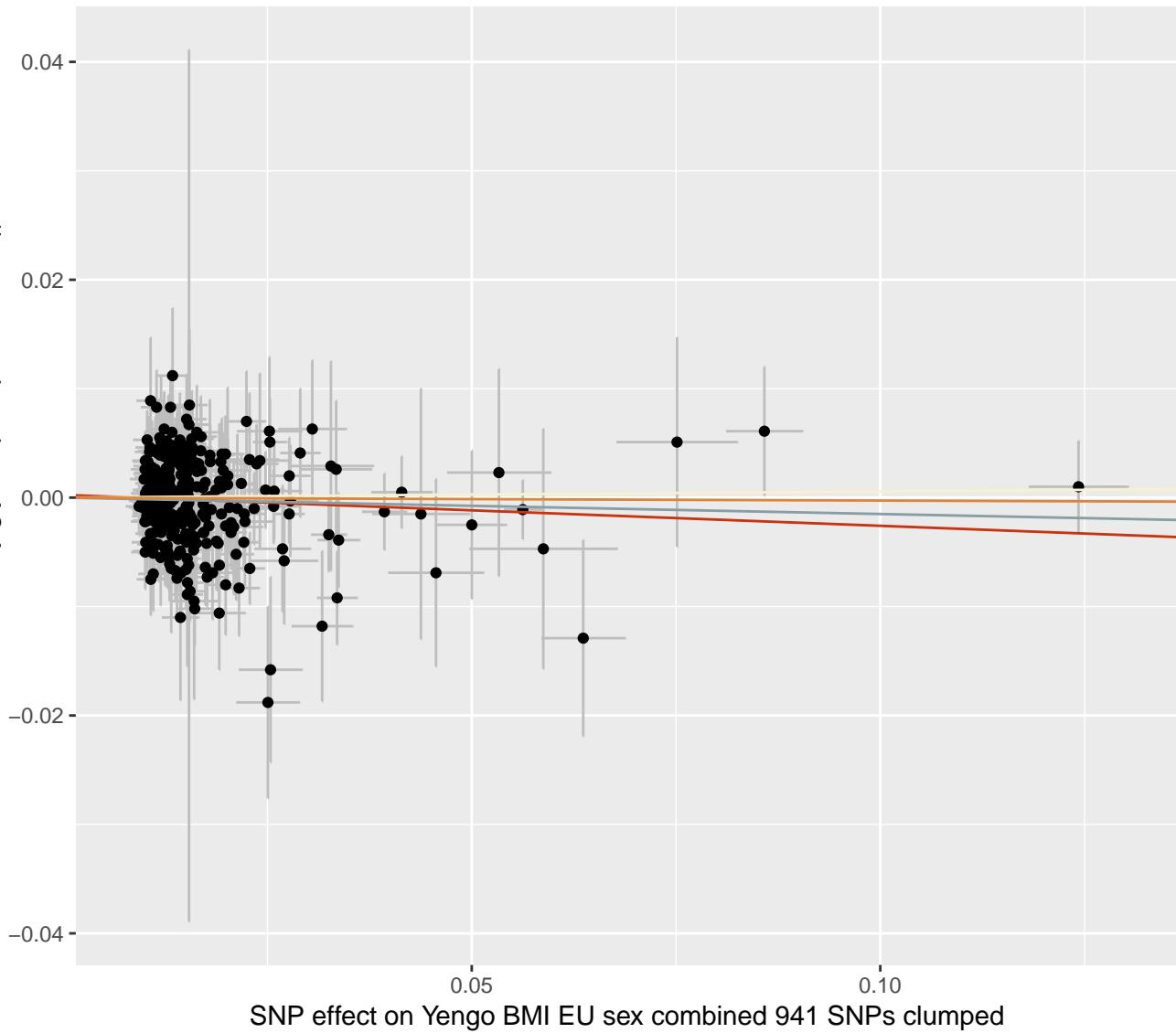
 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode

SNP effect on 2-linoleoylglycerophosphocholine\* || id:690



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

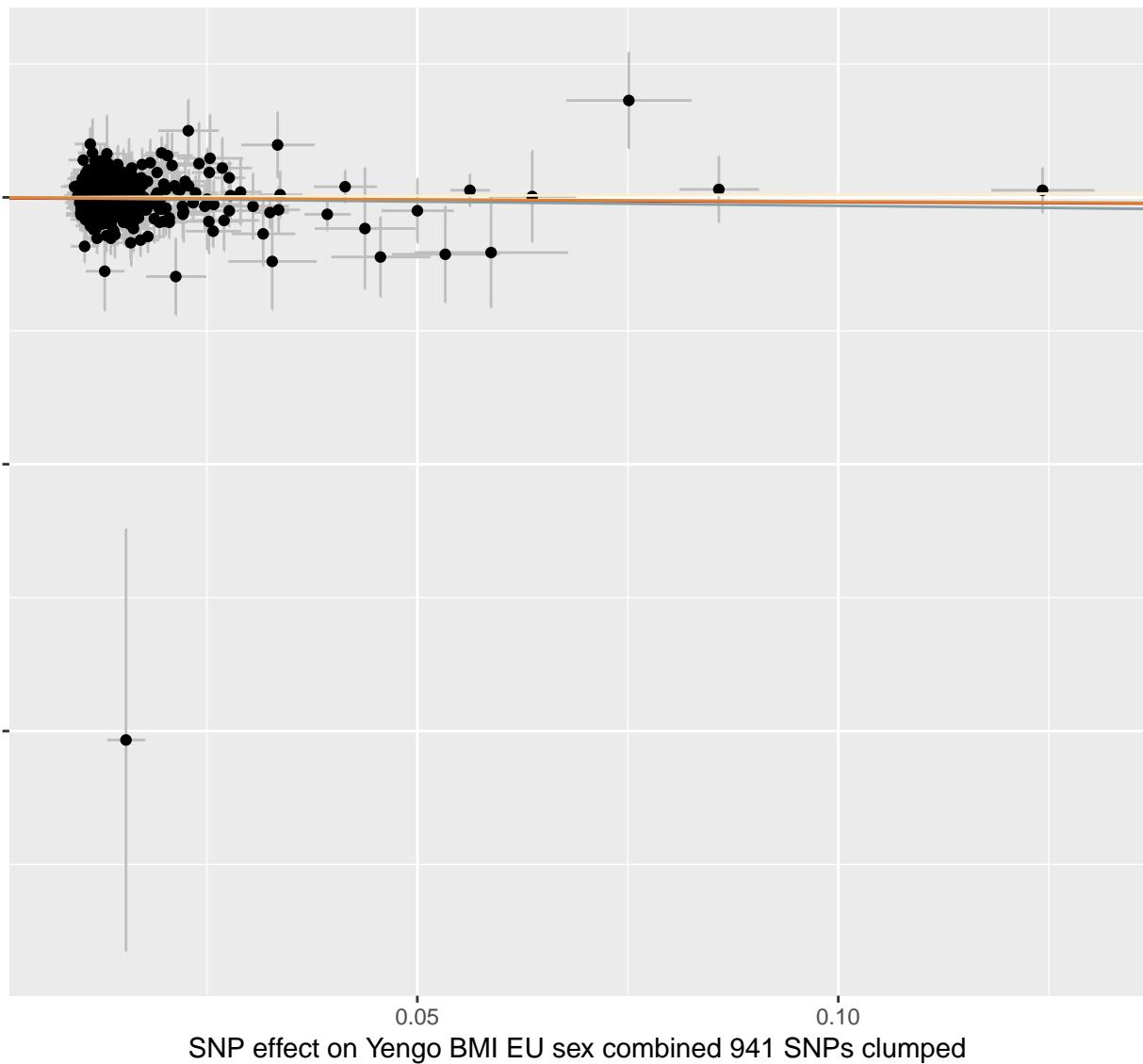


Weighted median



Weighted mode

SNP effect on X-13496 || id:691



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

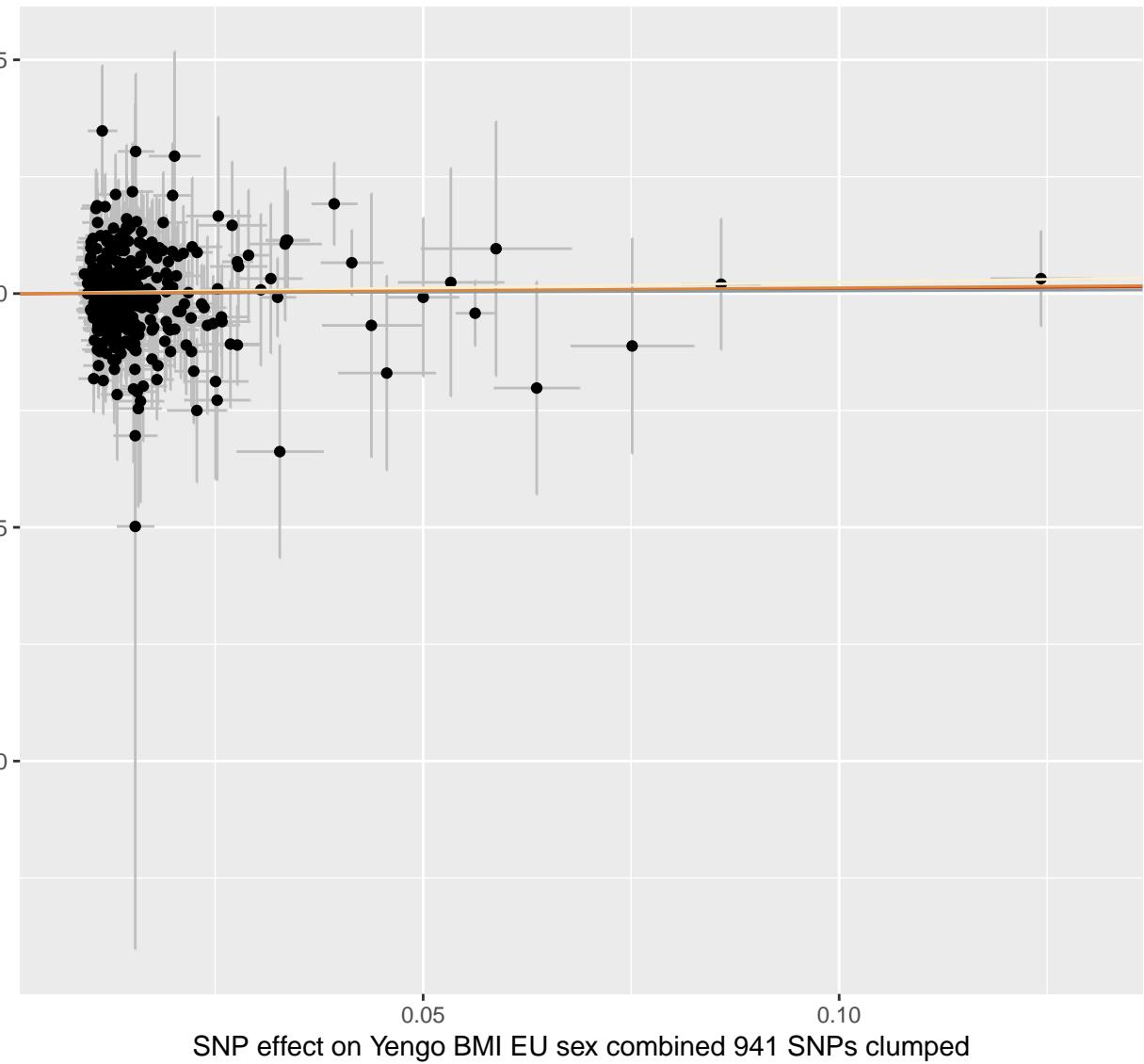


Weighted median



Weighted mode

SNP effect on 1-palmitoylglycerophosphoinositol\* || id:692



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on X-13548 || id:693

0.04

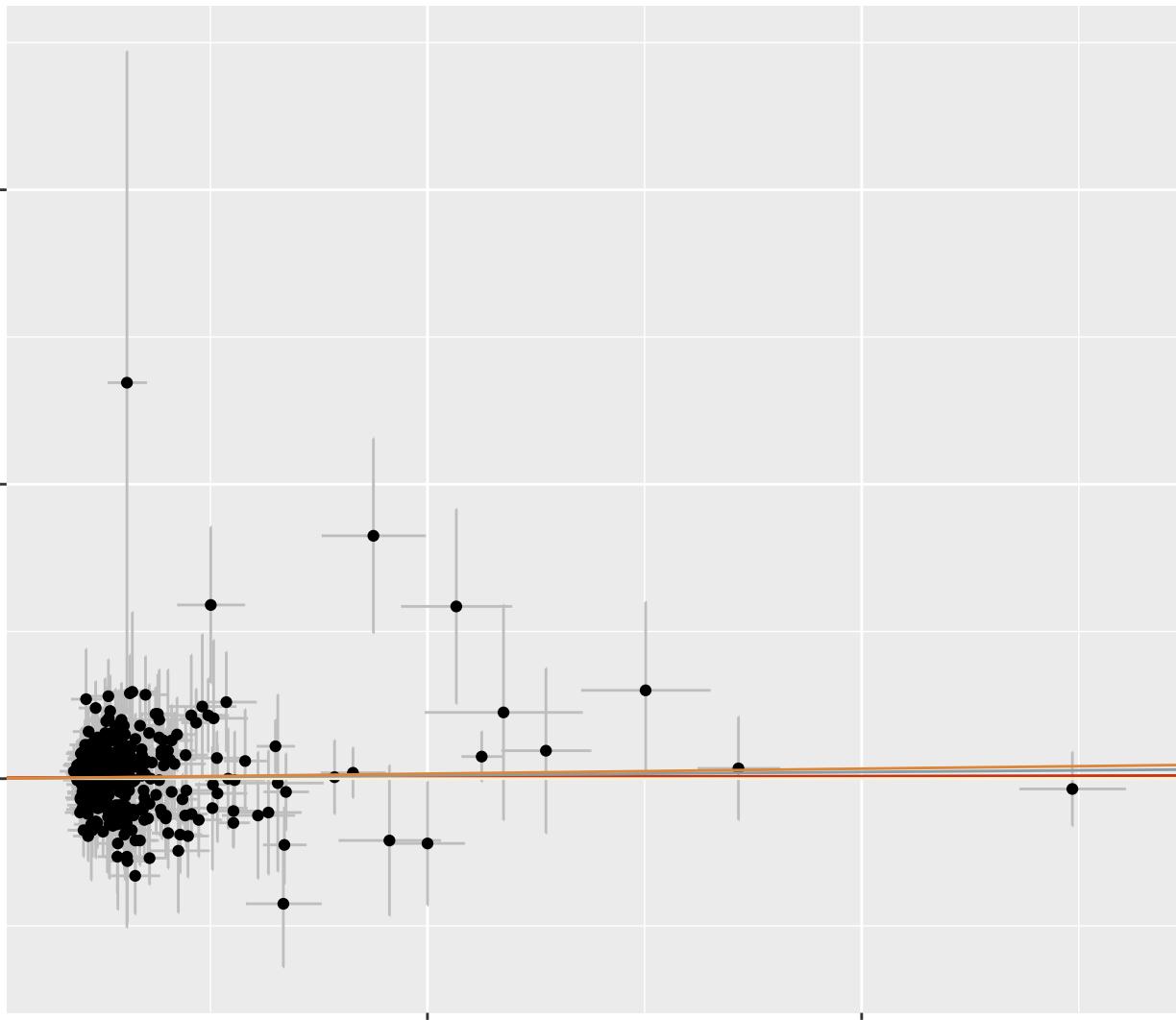
0.02

0.00

0.05

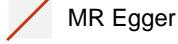
0.10

SNP effect on Yengo BMI EU sex combined 941 SNPs clumped



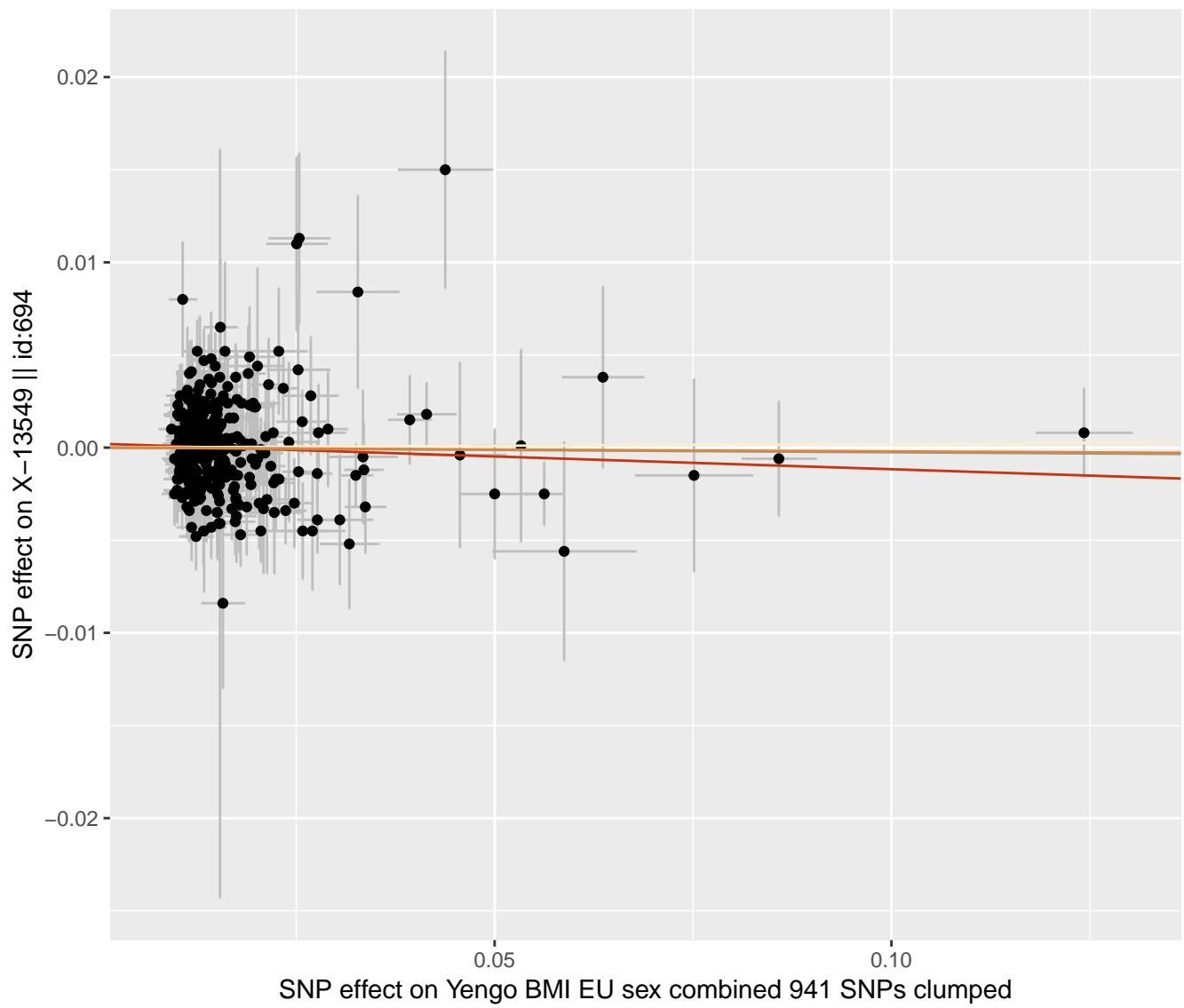
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on X-13553 || id:695

0.025

0.000

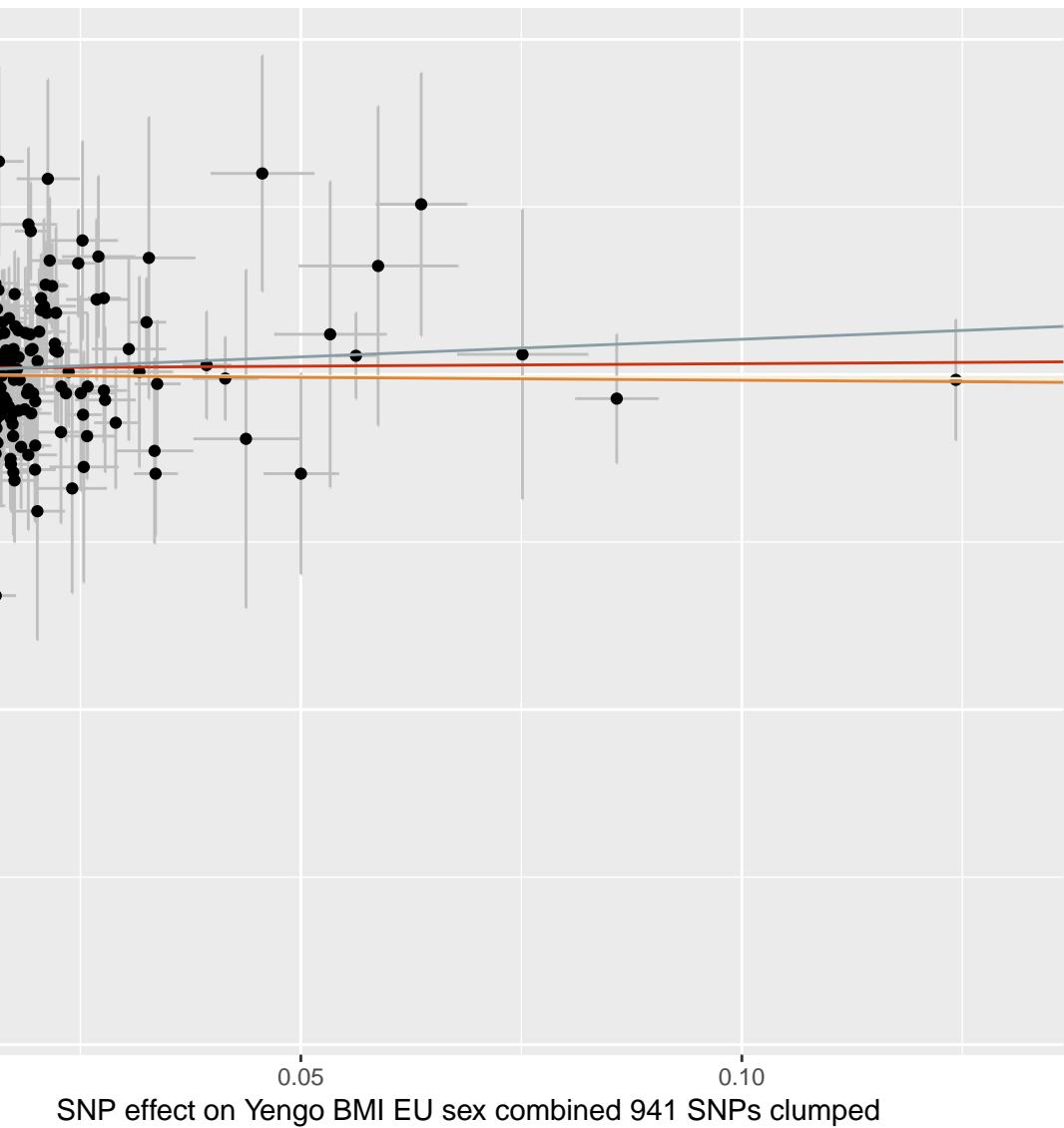
-0.025

-0.050

0.05

0.10

SNP effect on Yengo BMI EU sex combined 941 SNPs clumped



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

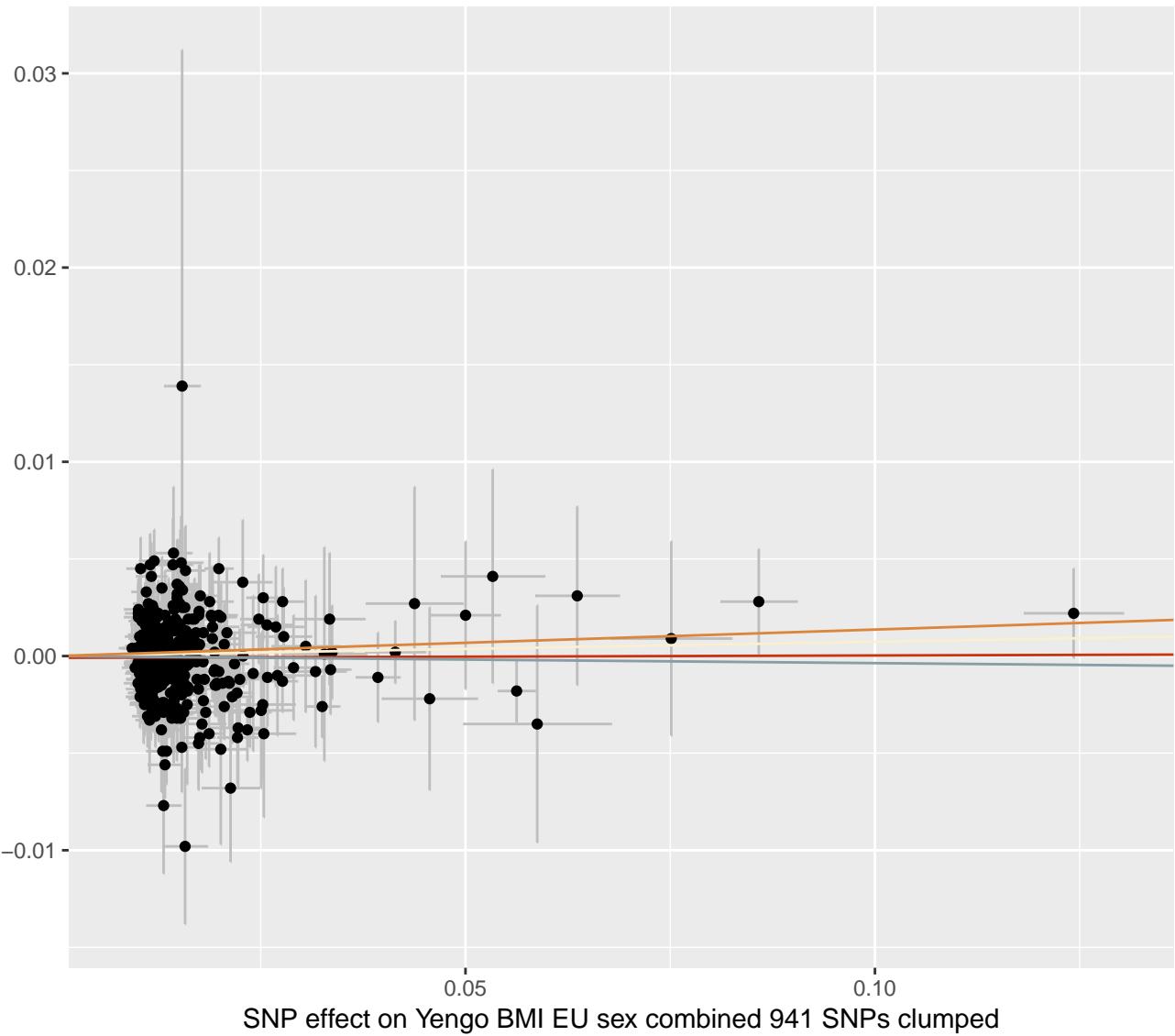


Weighted median



Weighted mode

SNP effect on X-13619 || id:696



### MR Test



Inverse variance weighted (multiplicative random effects)



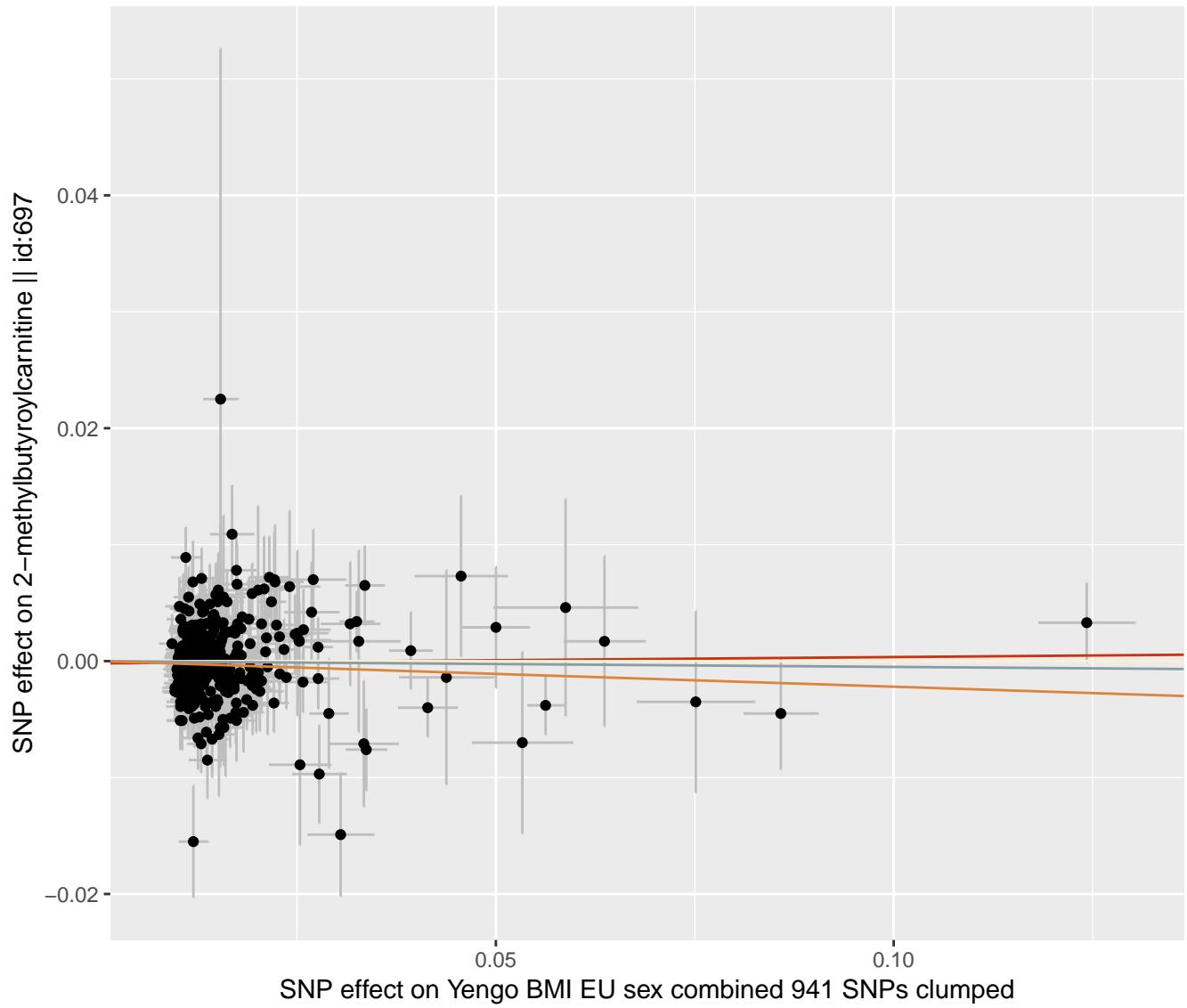
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

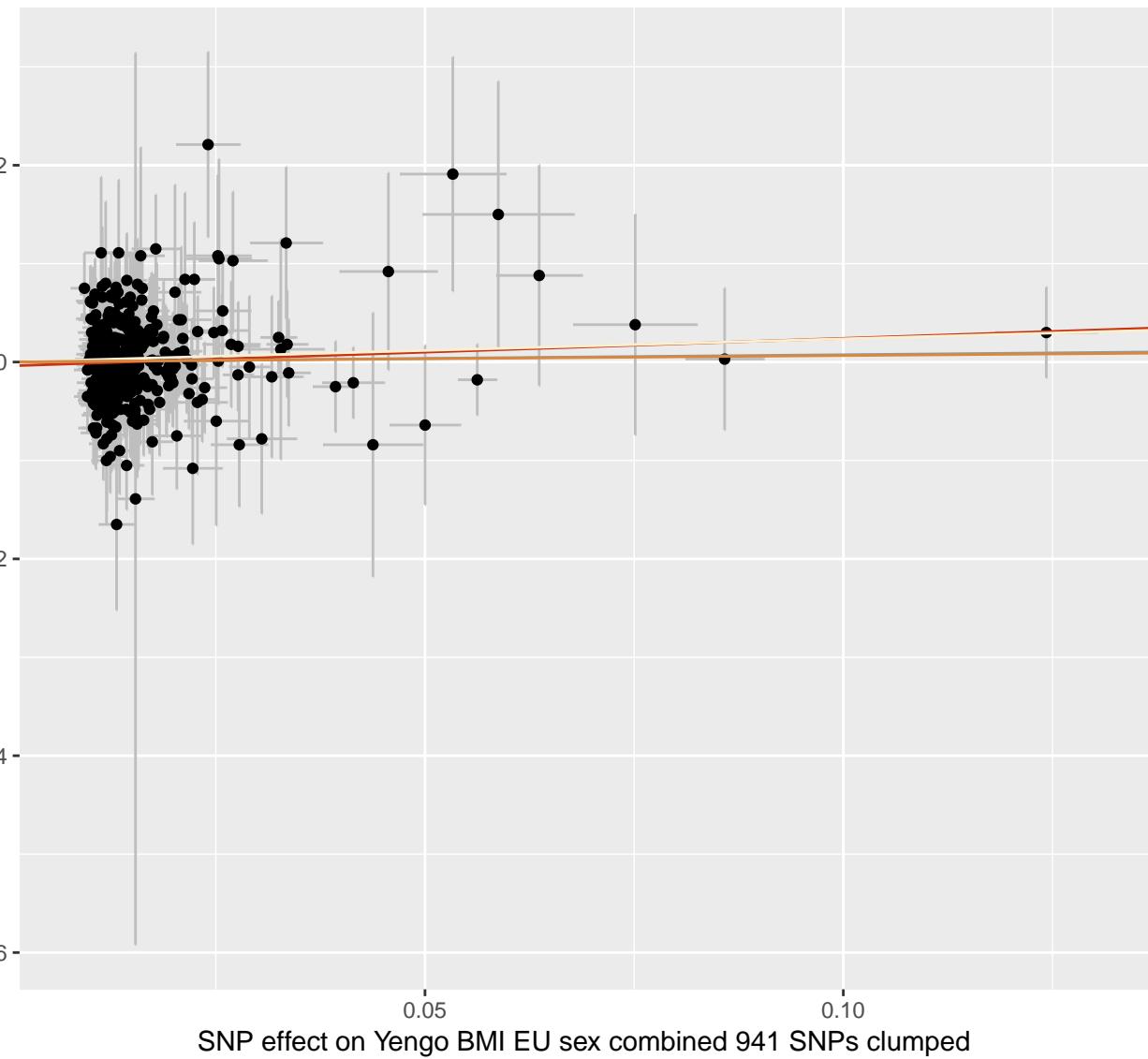


Weighted median



Weighted mode

SNP effect on Hydroxyisovaleryl carnitine || id:698



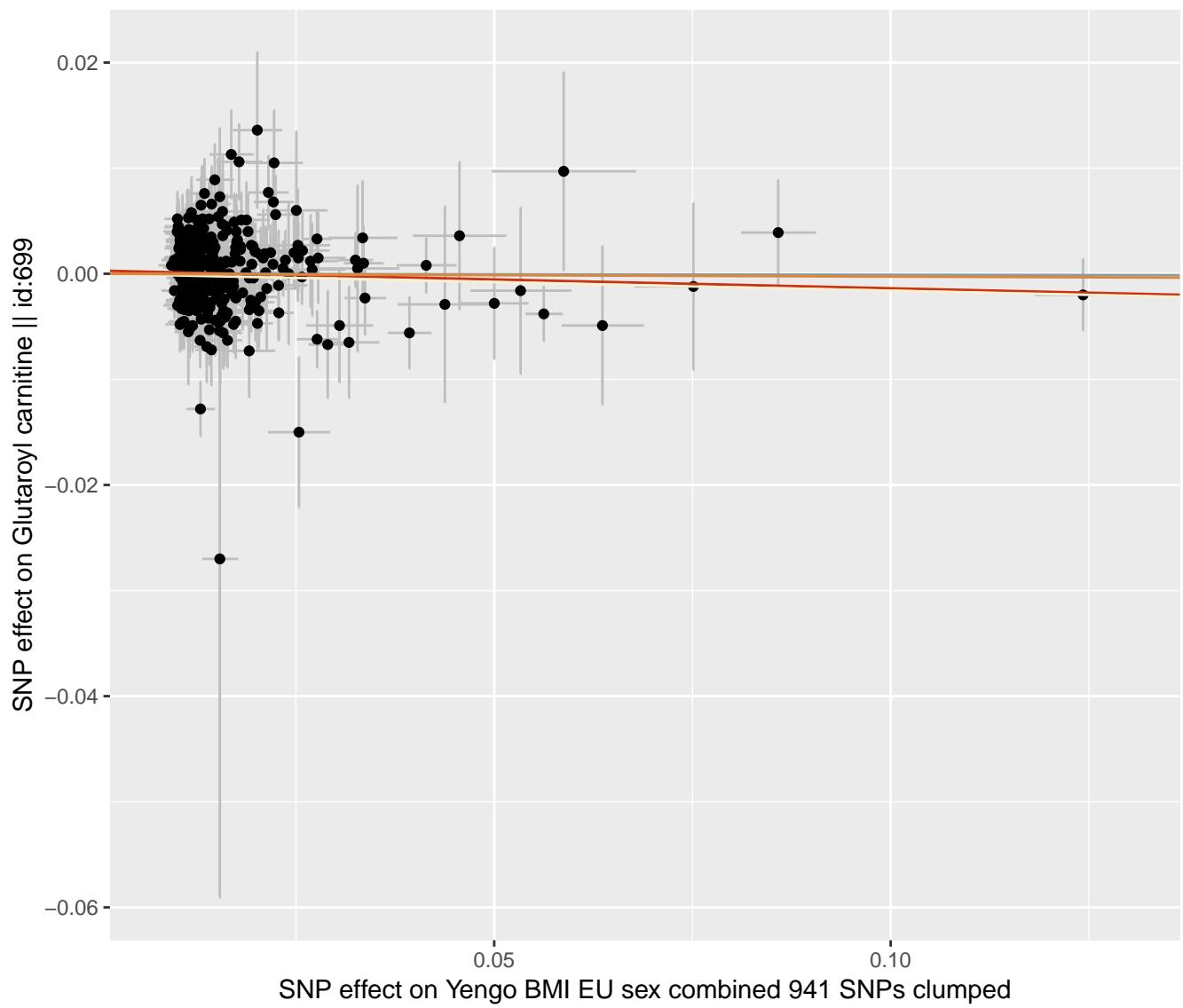
### MR Test

 Inverse variance weighted (multiplicative random effects)

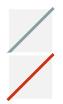
 MR Egger

 Weighted median

 Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



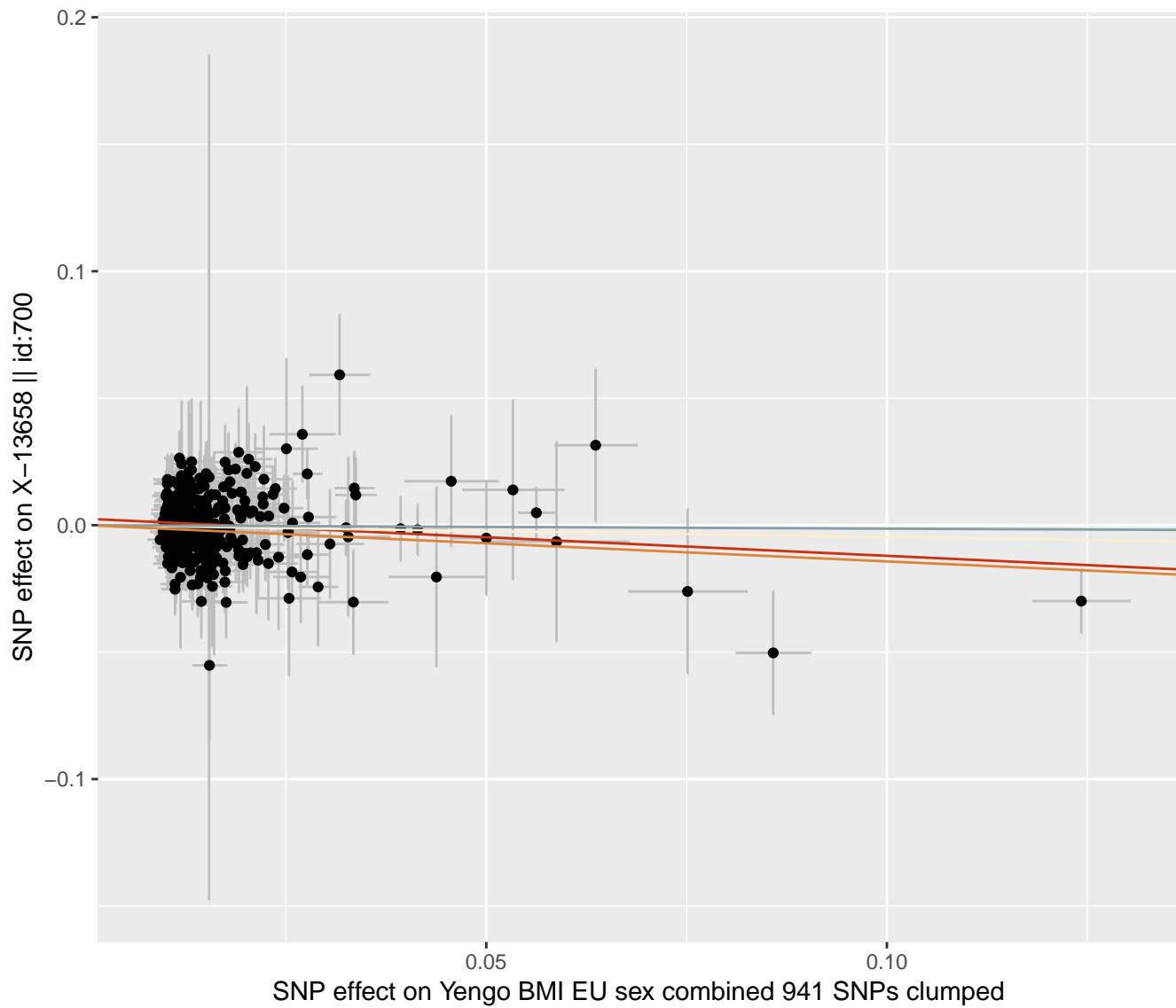
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

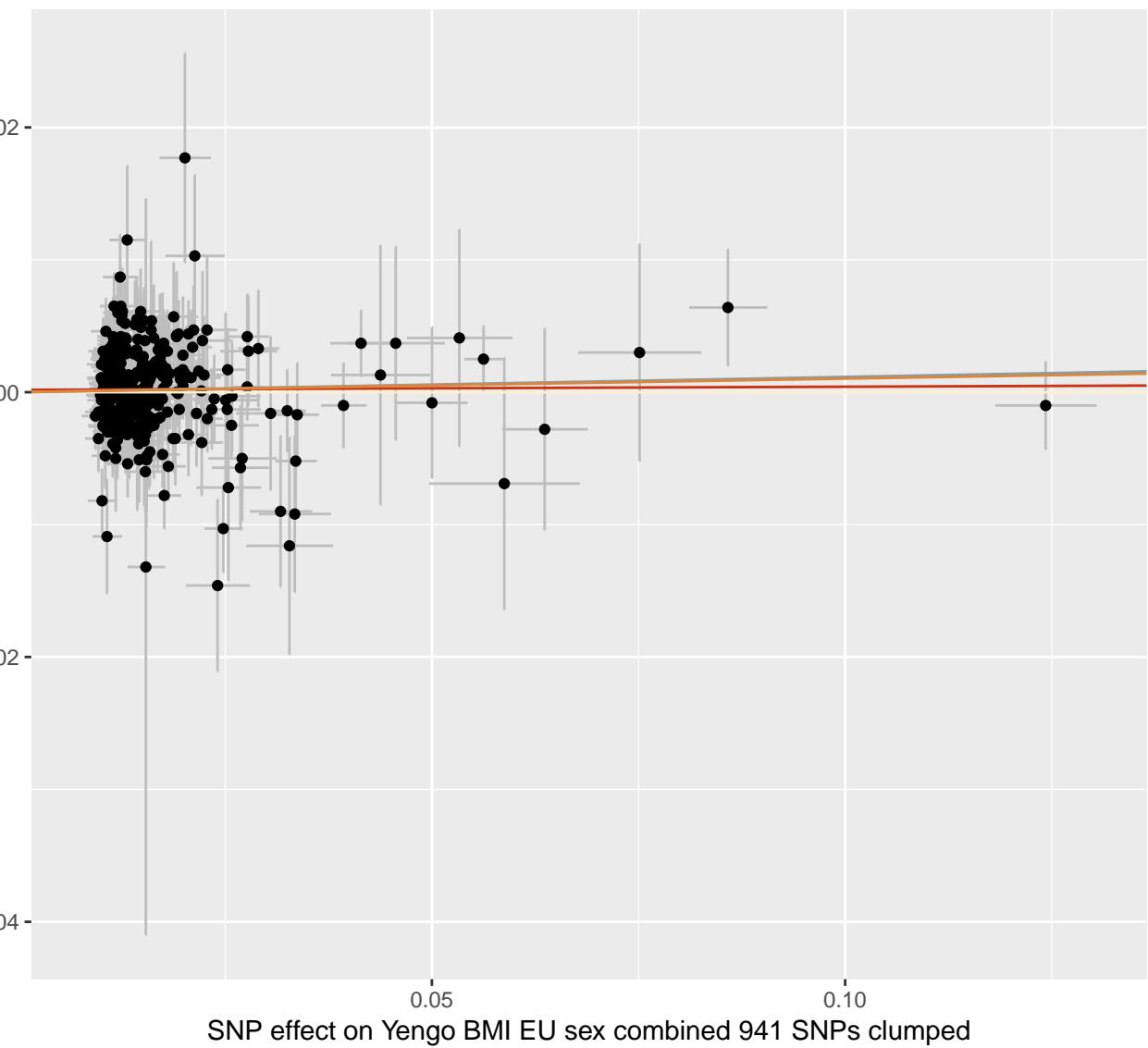


Weighted median



Weighted mode

SNP effect on X-13671 || id:701



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

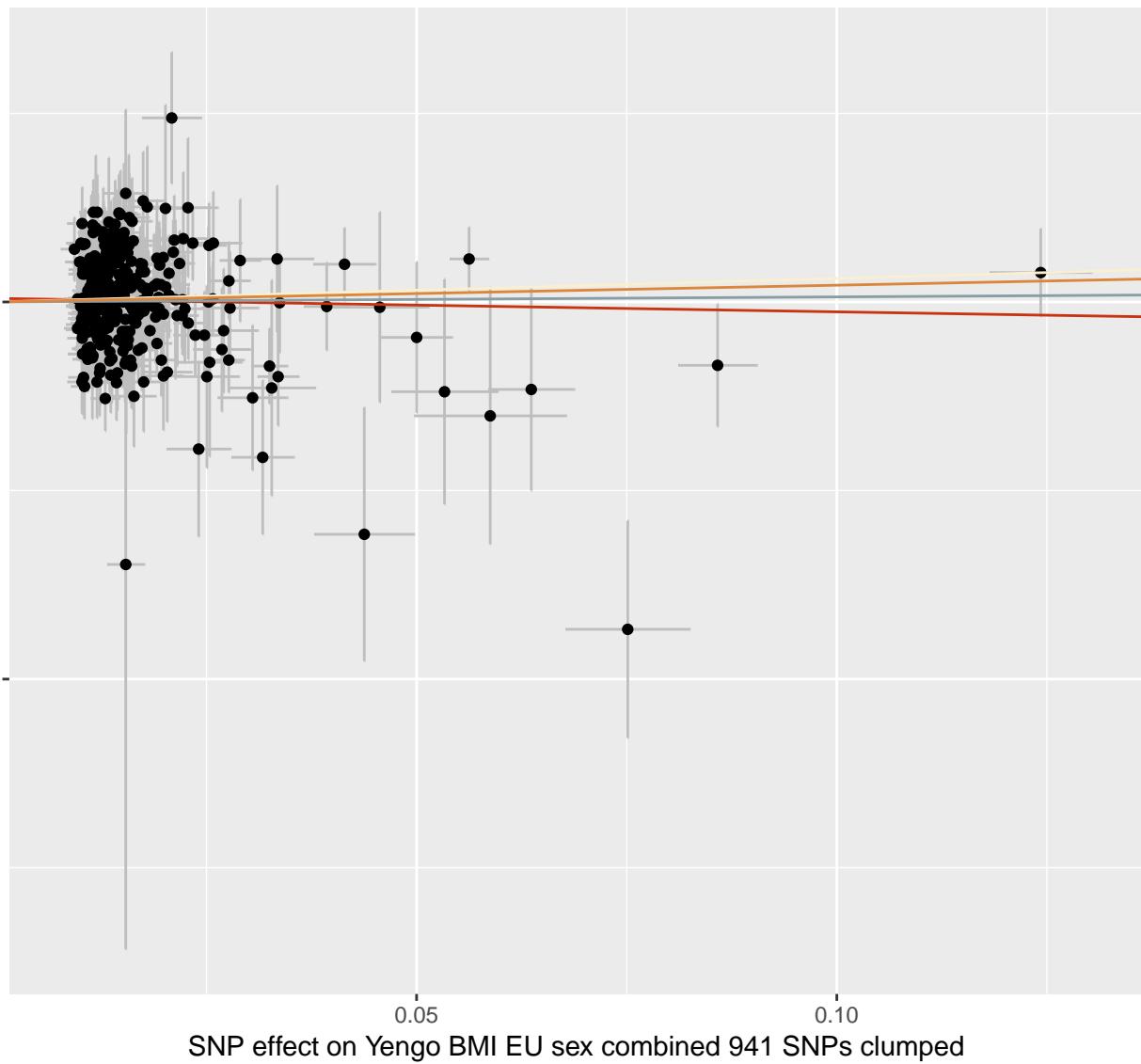


Weighted median



Weighted mode

SNP effect on 2-tetradecenoyl carnitine || id:702



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

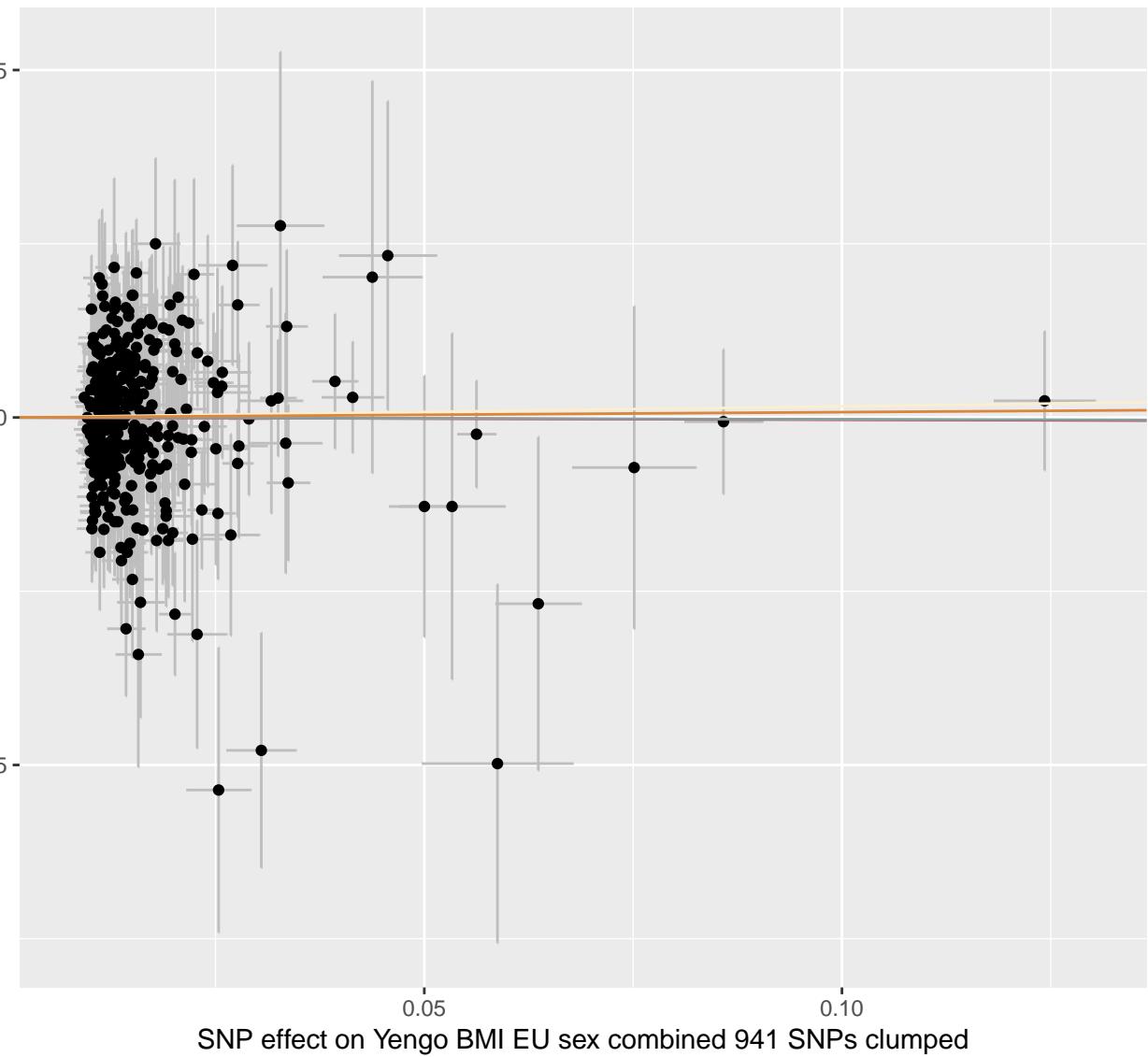


Weighted median



Weighted mode

SNP effect on 4-hydroxyhippurate || id:703



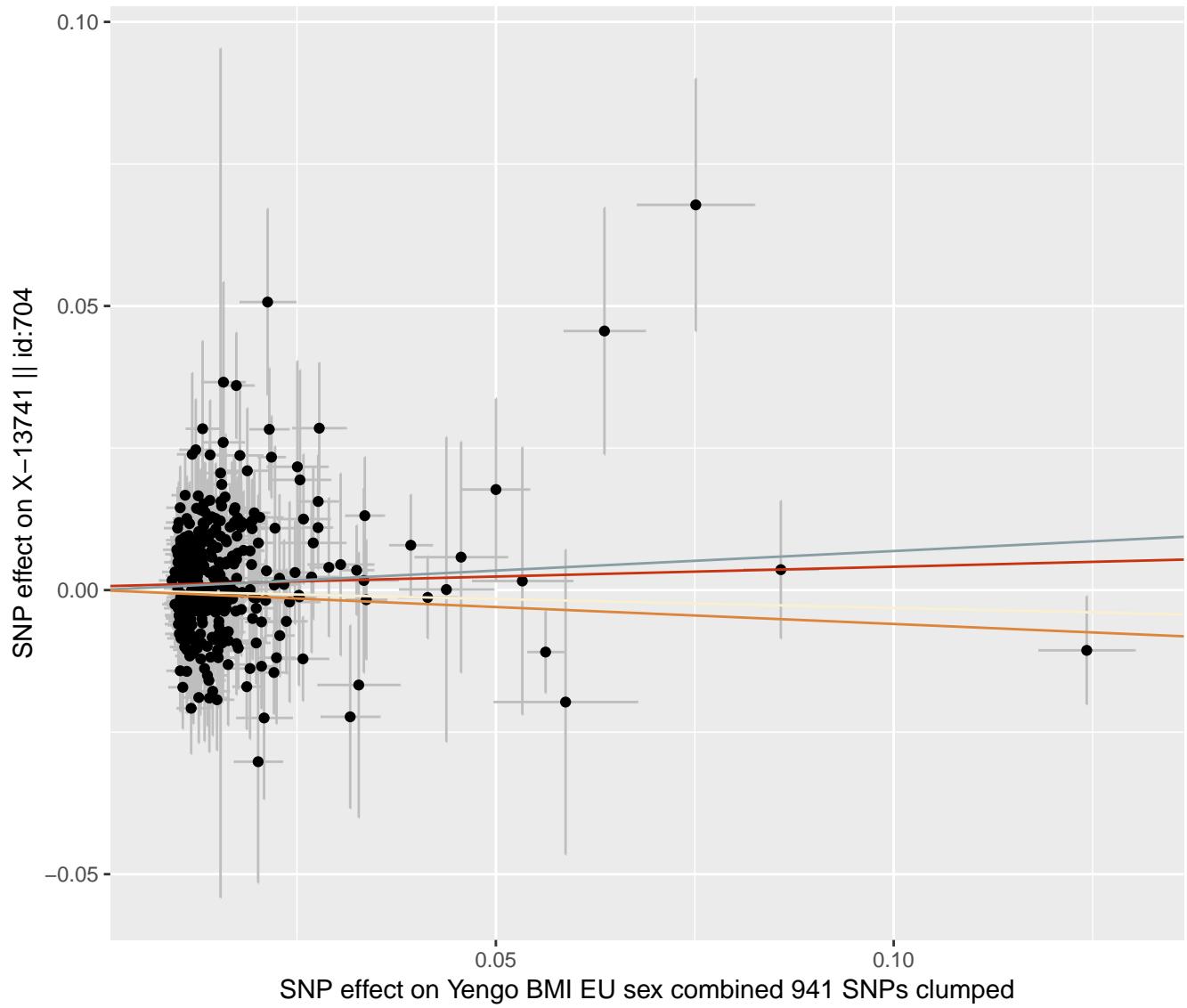
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



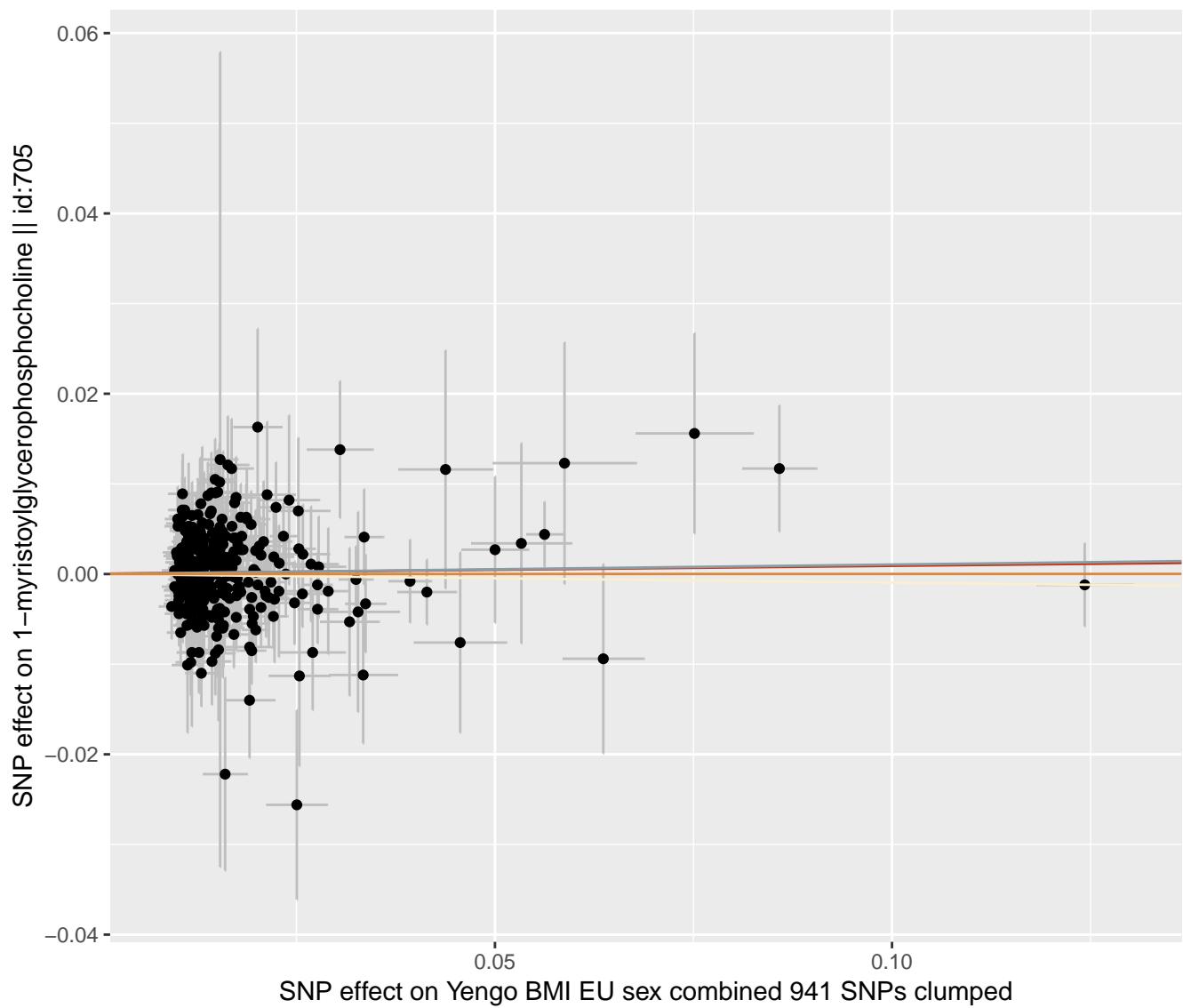
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

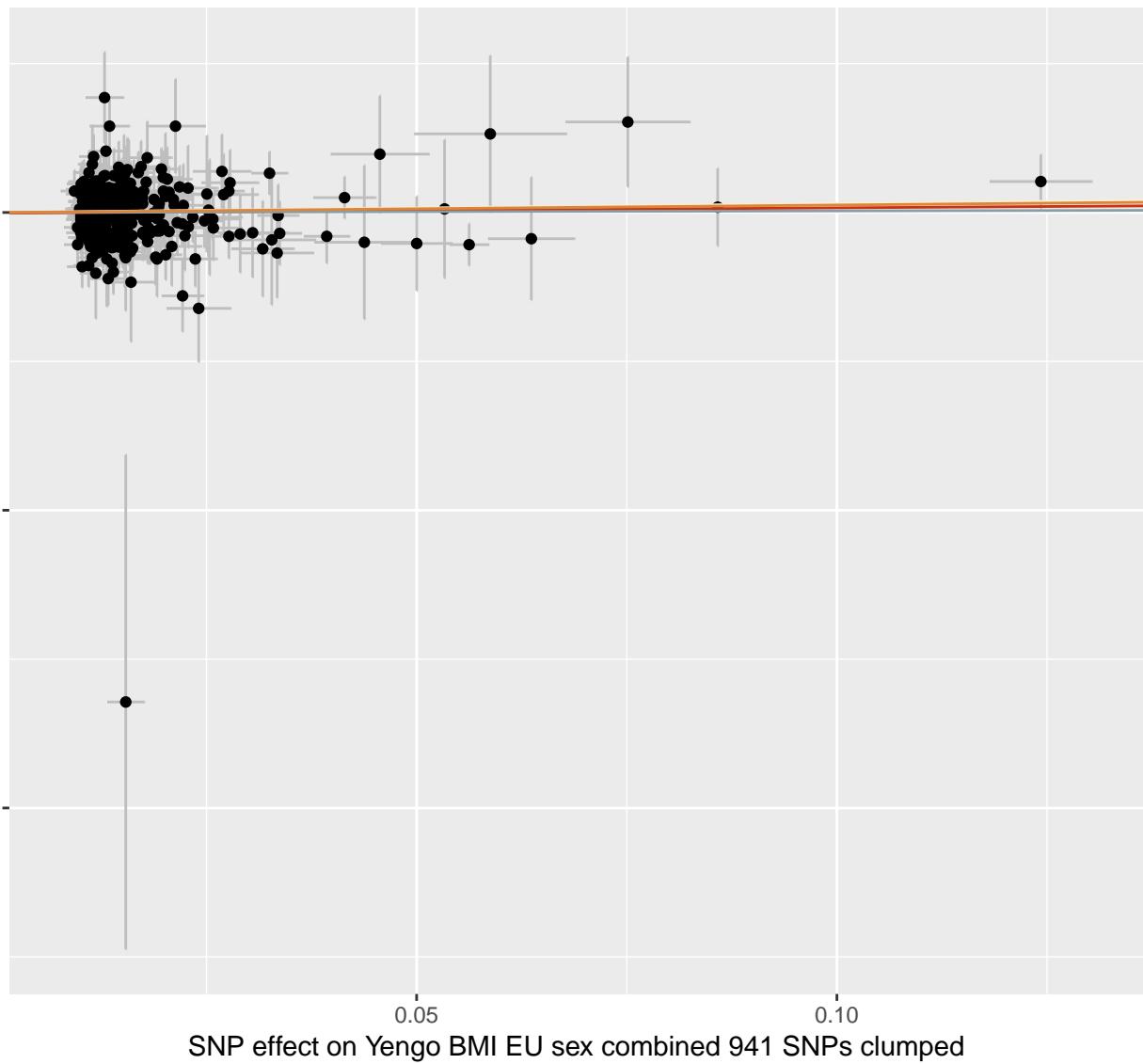


Weighted median



Weighted mode

SNP effect on 1-oleoylglycerophosphoethanolamine || id:706



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

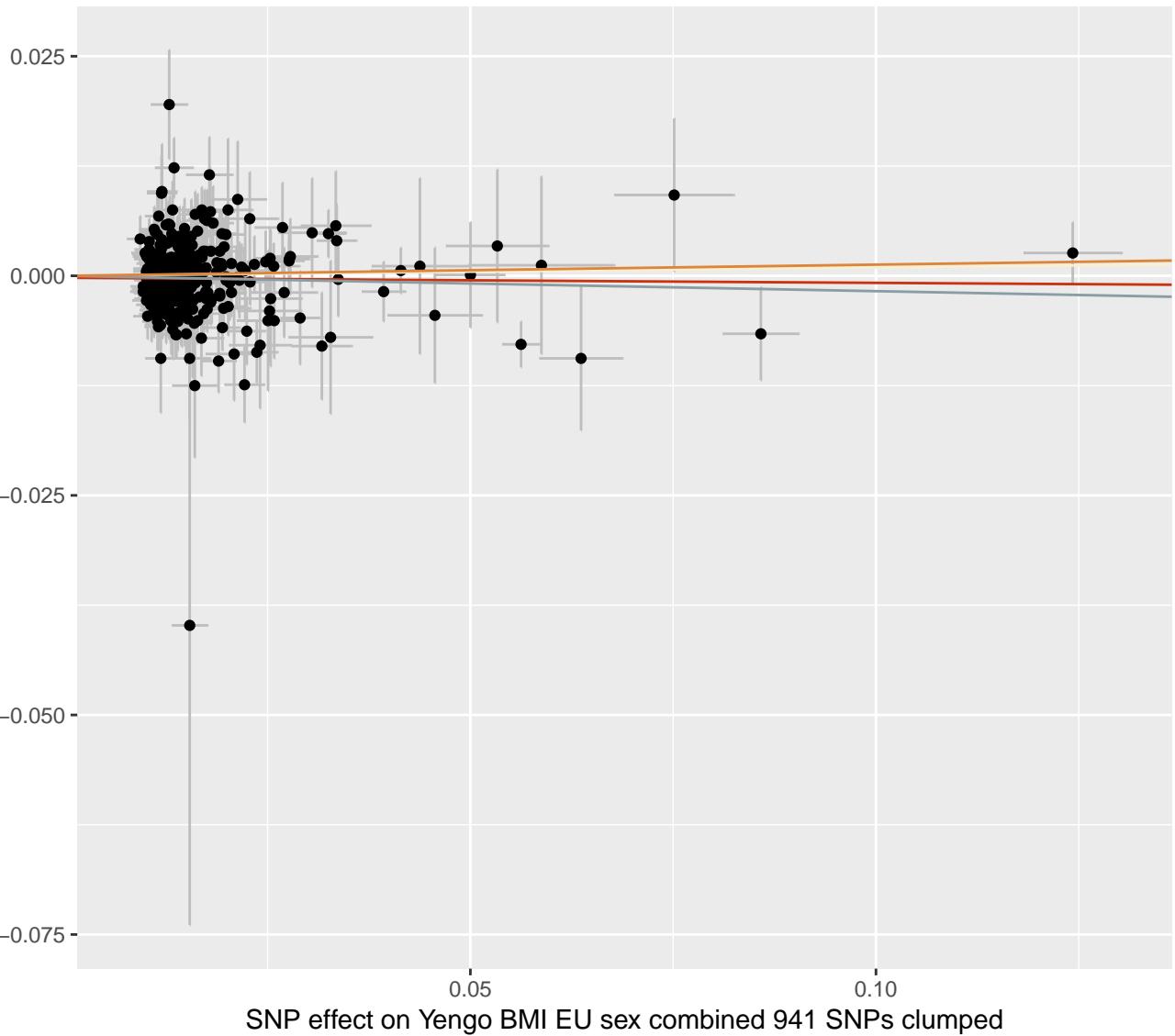


Weighted median



Weighted mode

SNP effect on 1-palmitoylglycerophosphoethanolamine || id:707



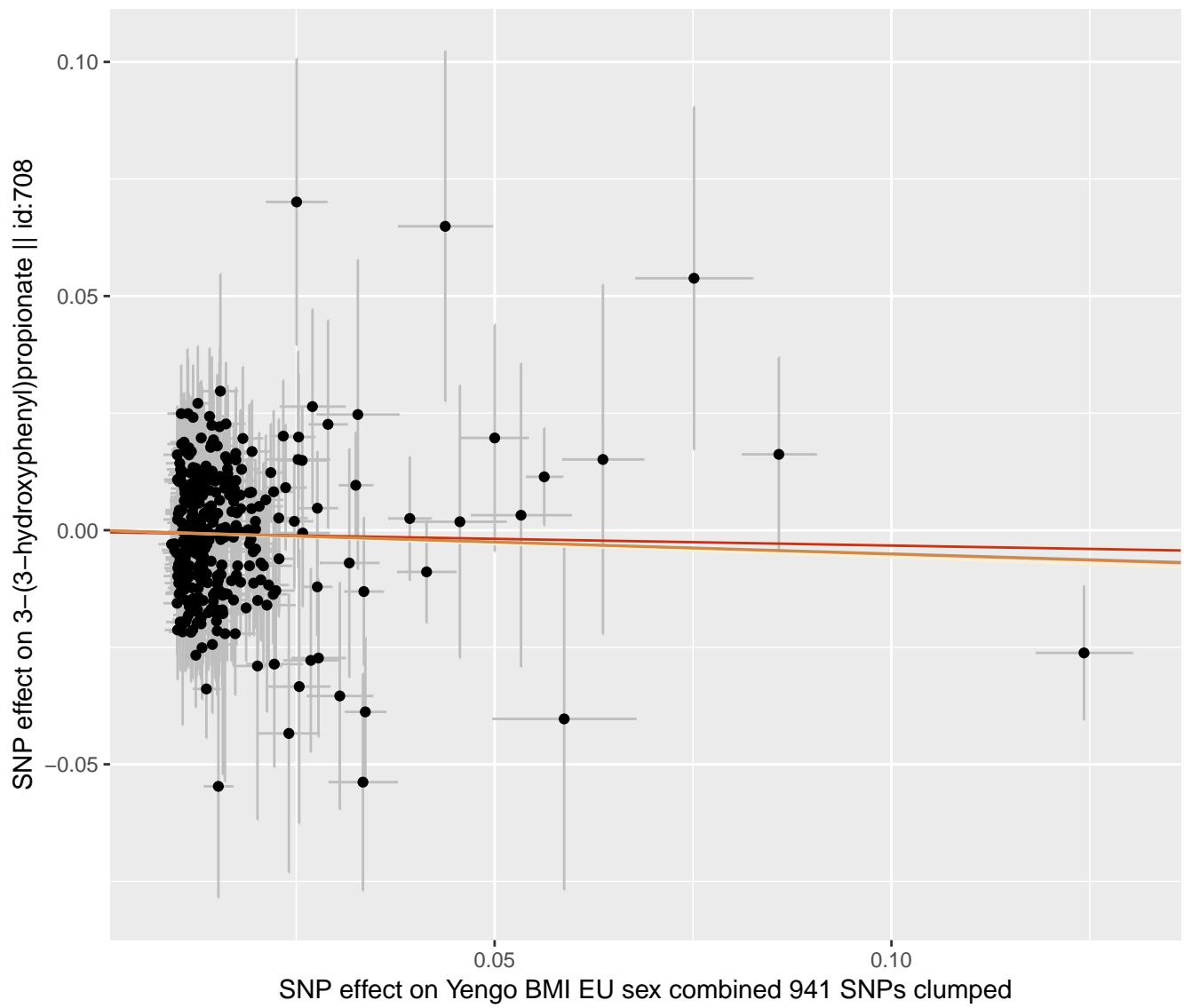
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



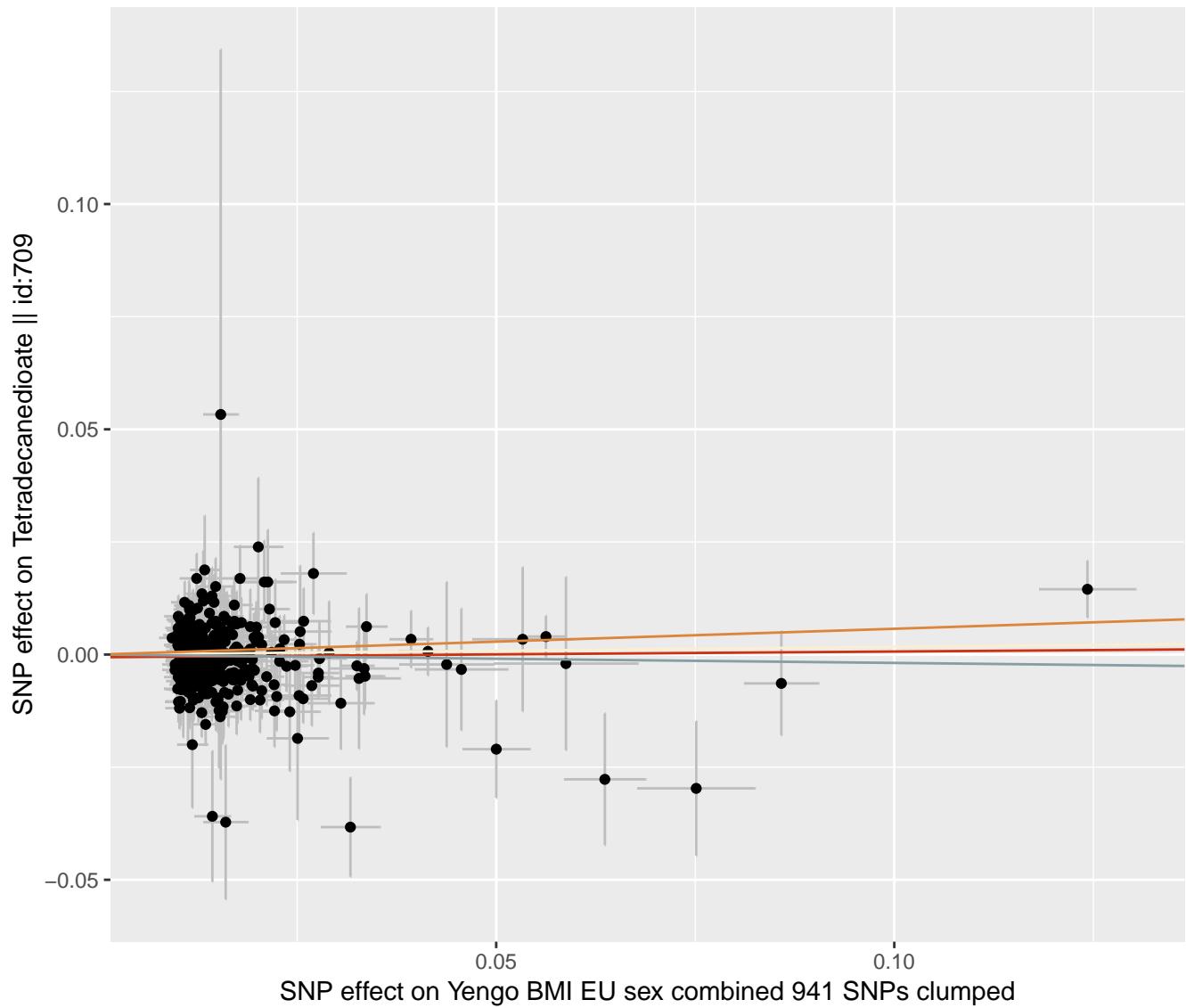
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



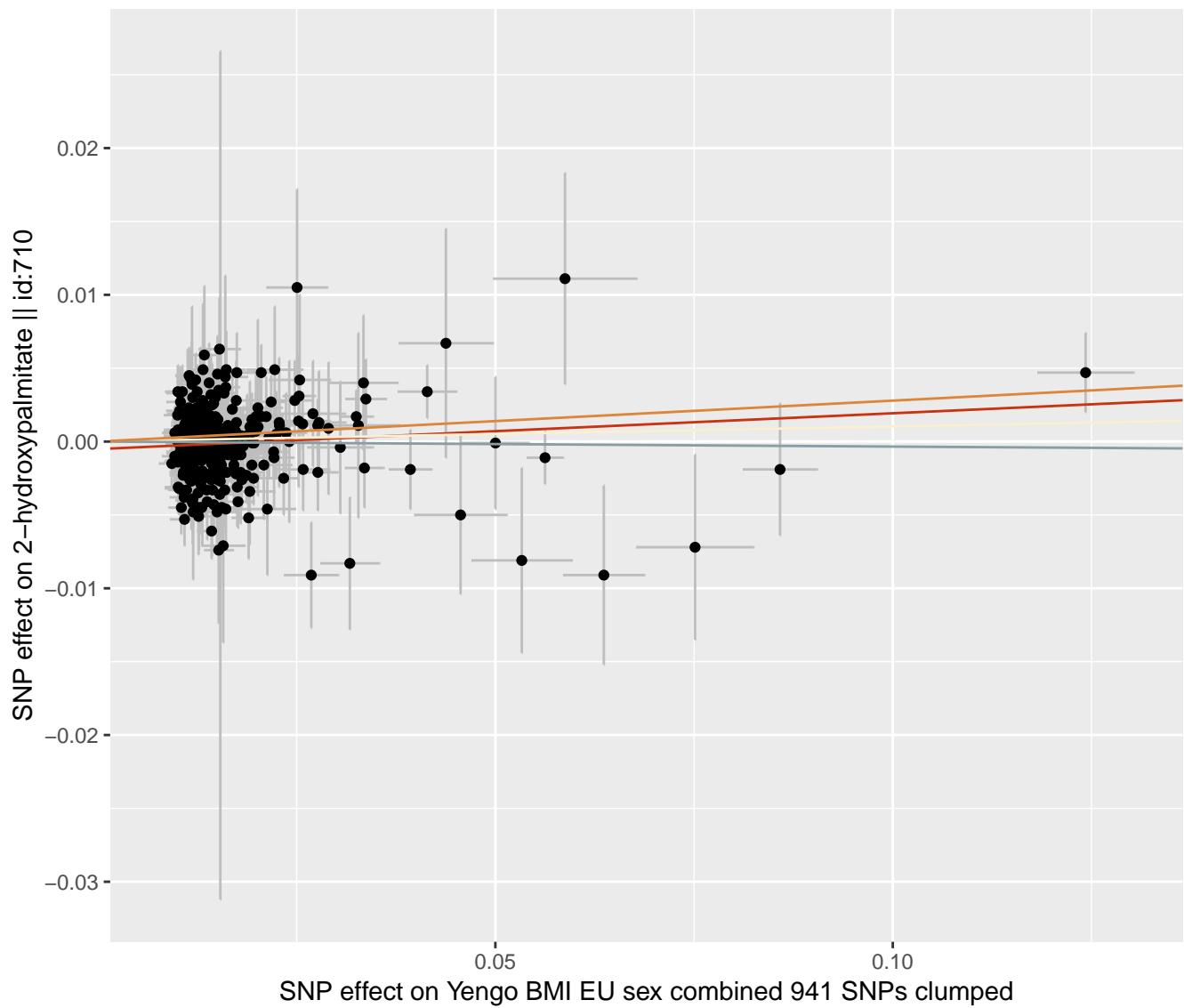
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



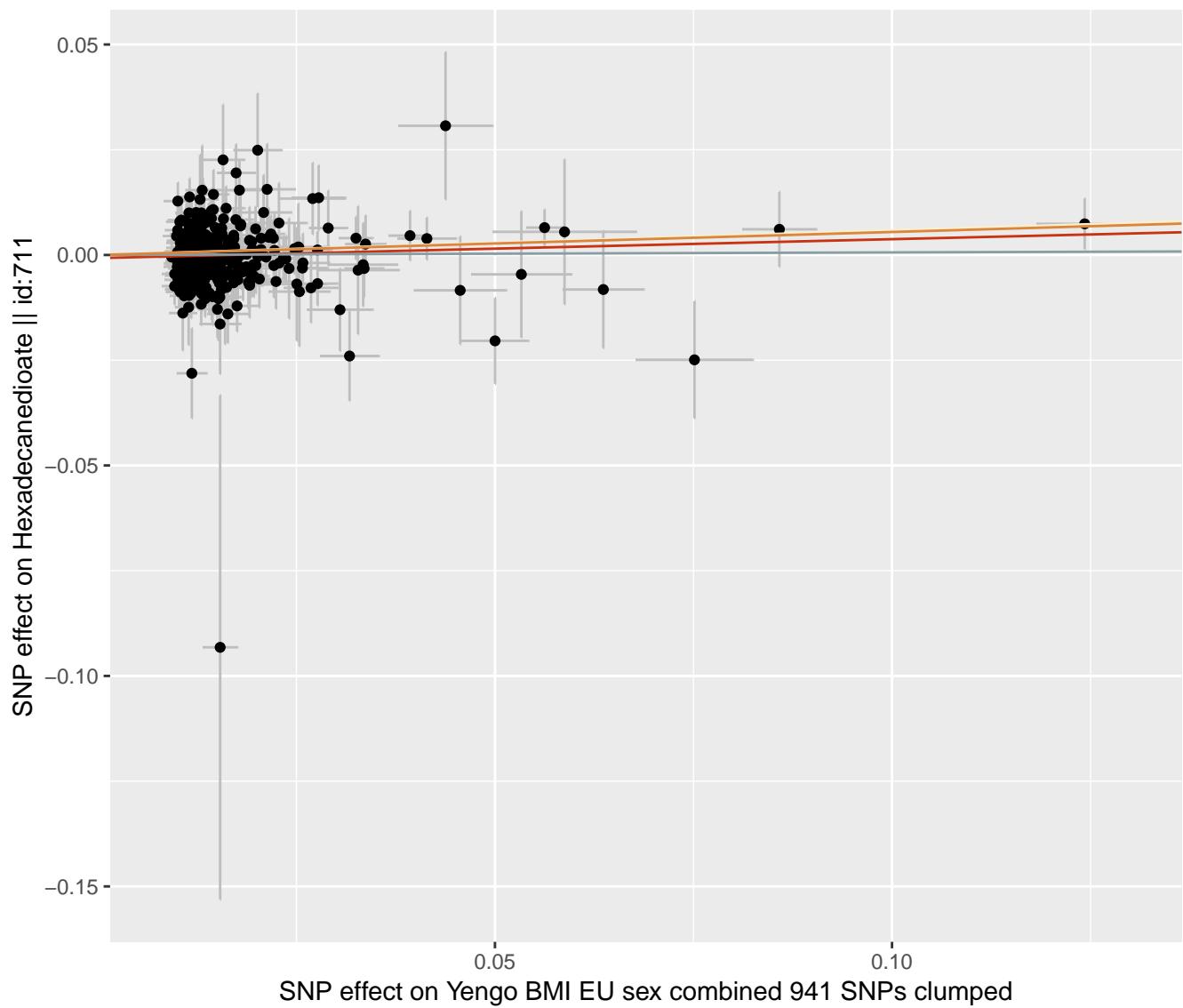
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



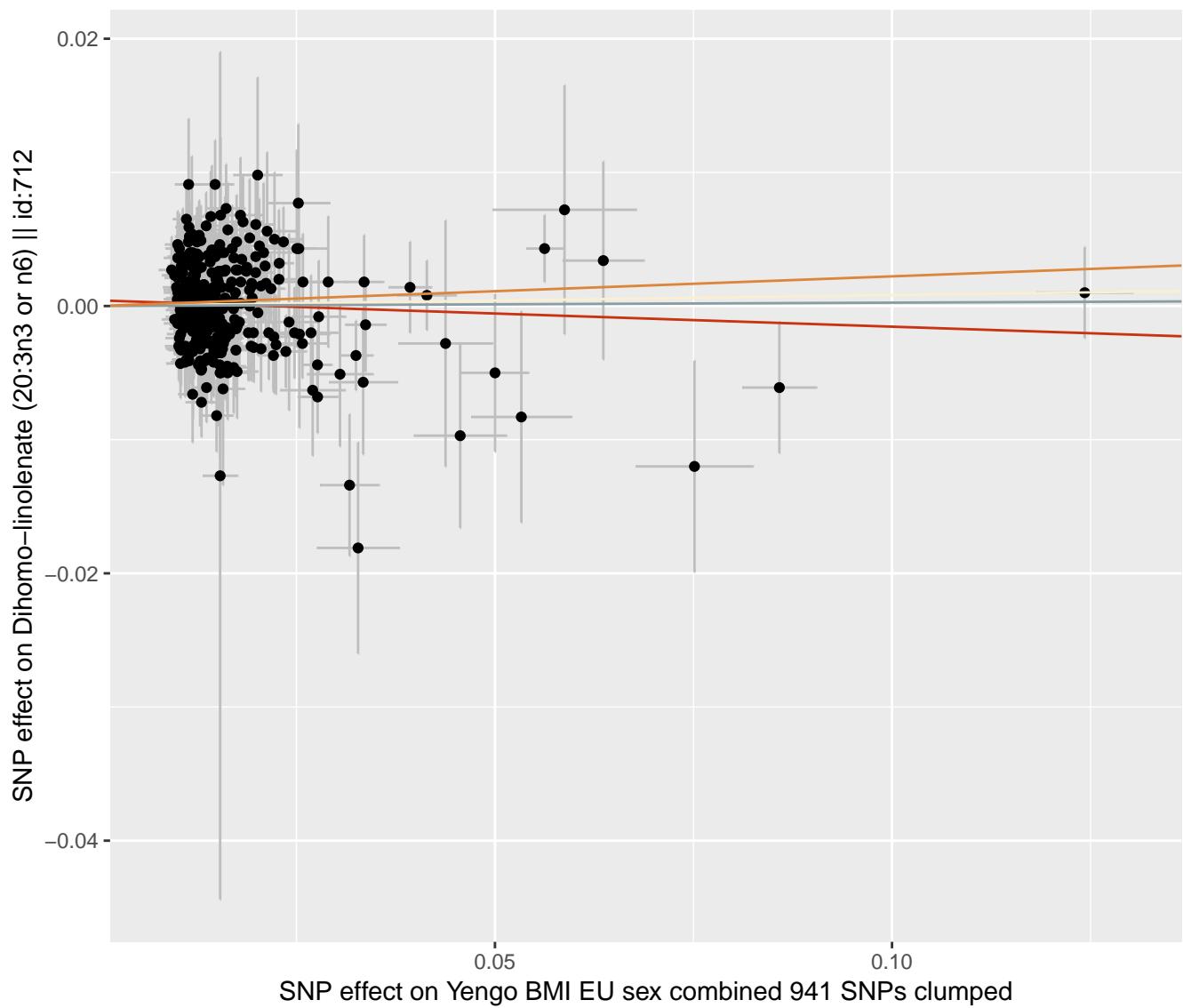
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

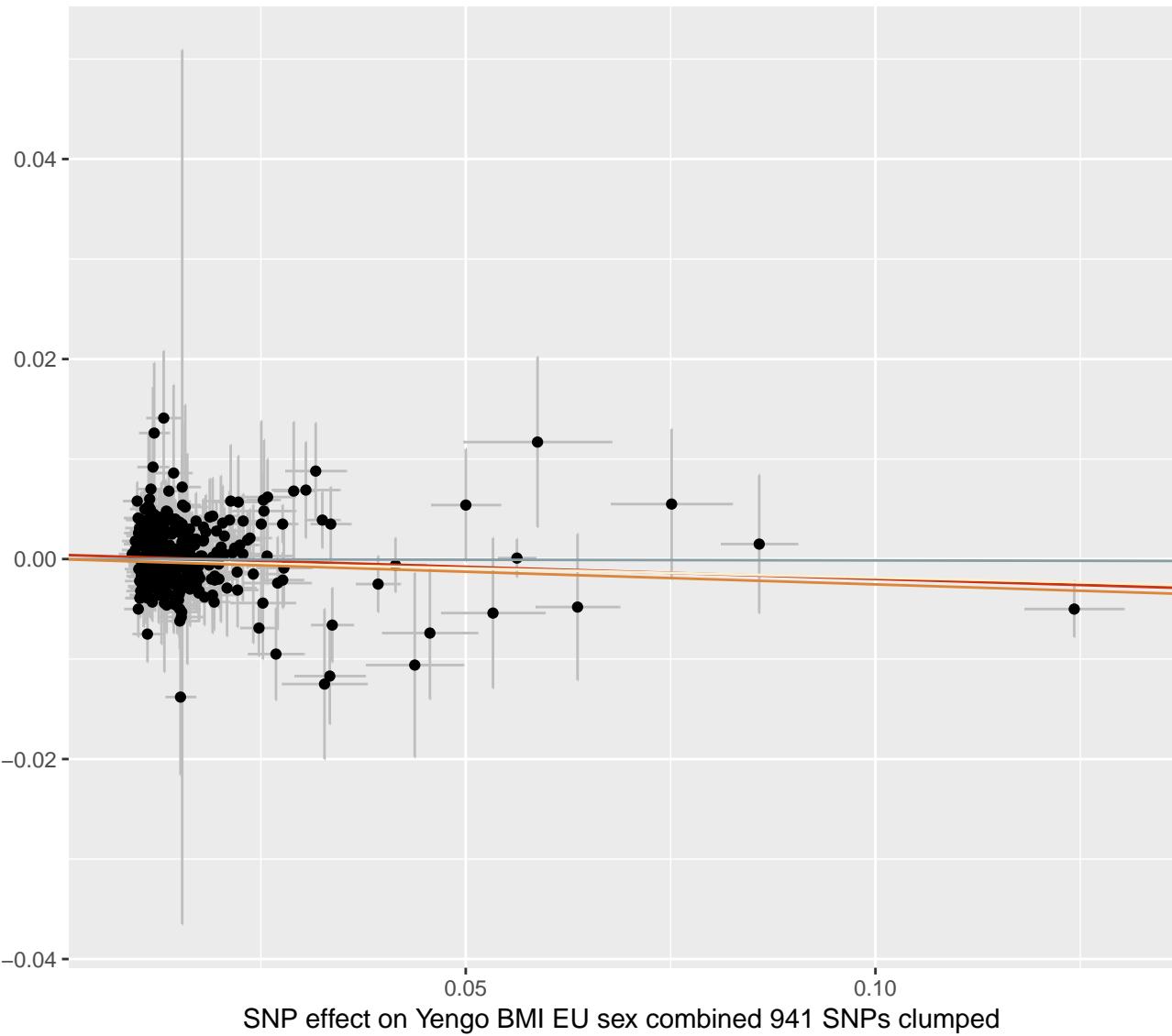


Weighted median



Weighted mode

SNP effect on X-13859 || id:713



### MR Test



Inverse variance weighted (multiplicative random effects)



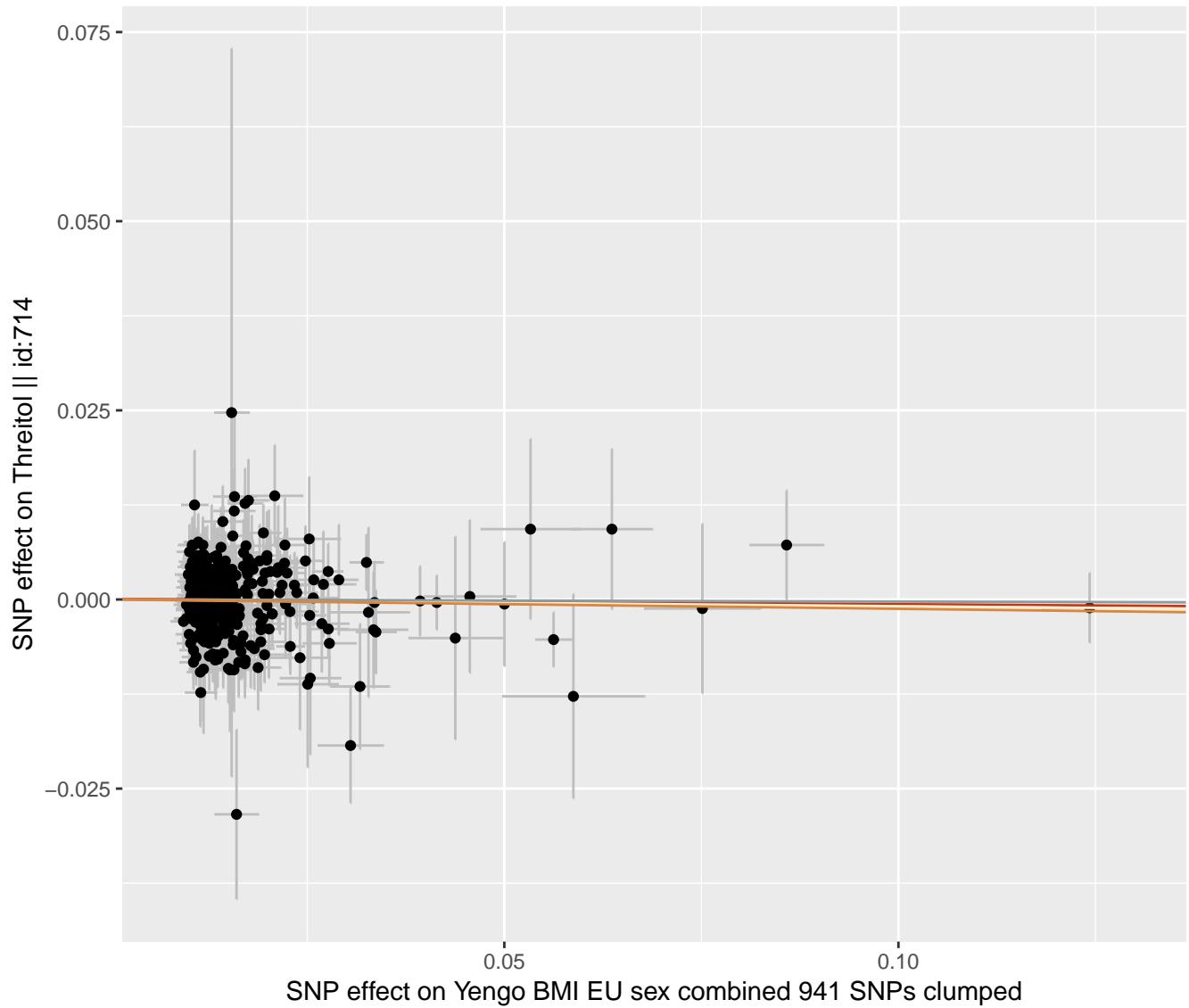
MR Egger



Weighted median

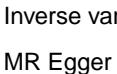


Weighted mode



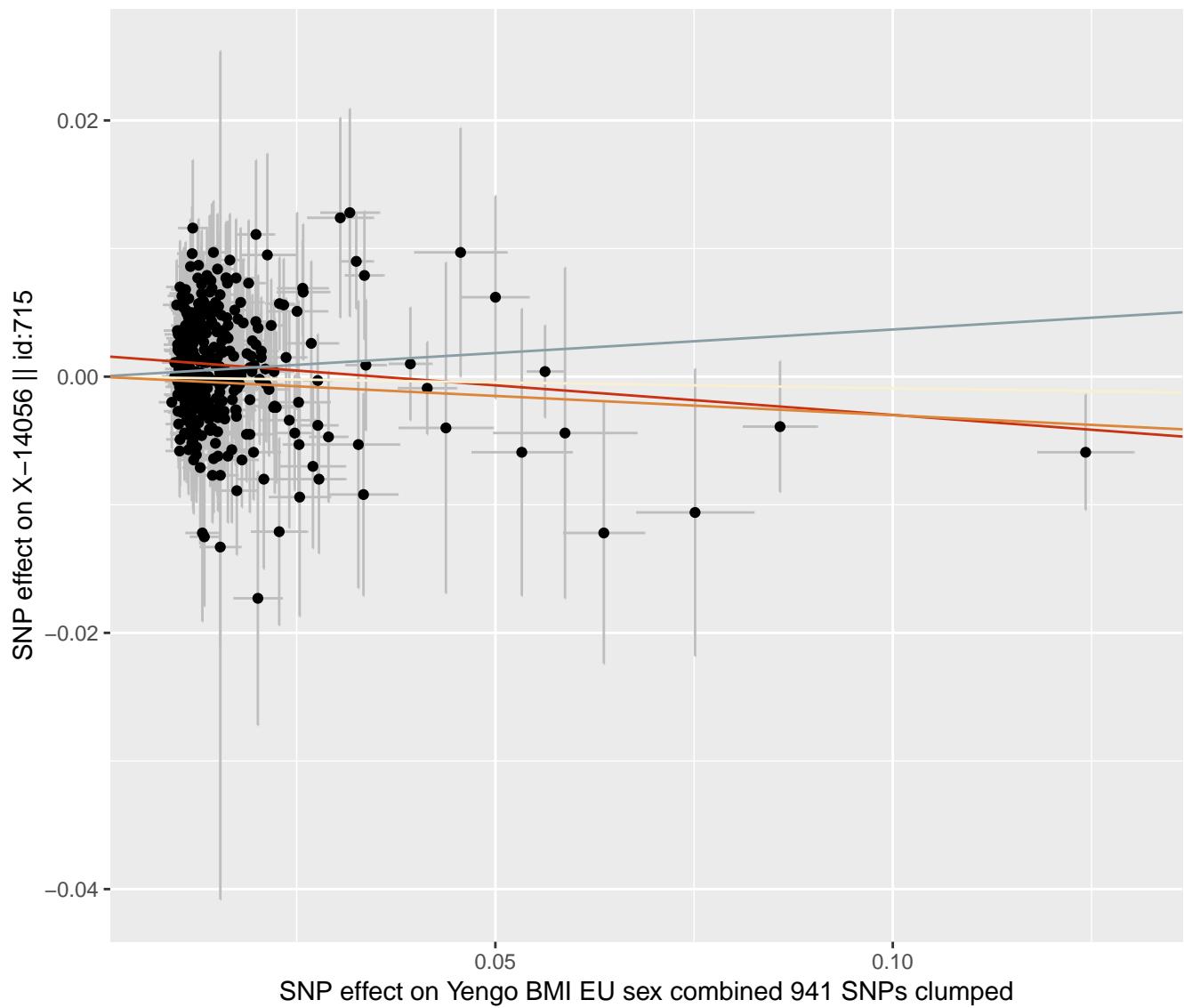
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



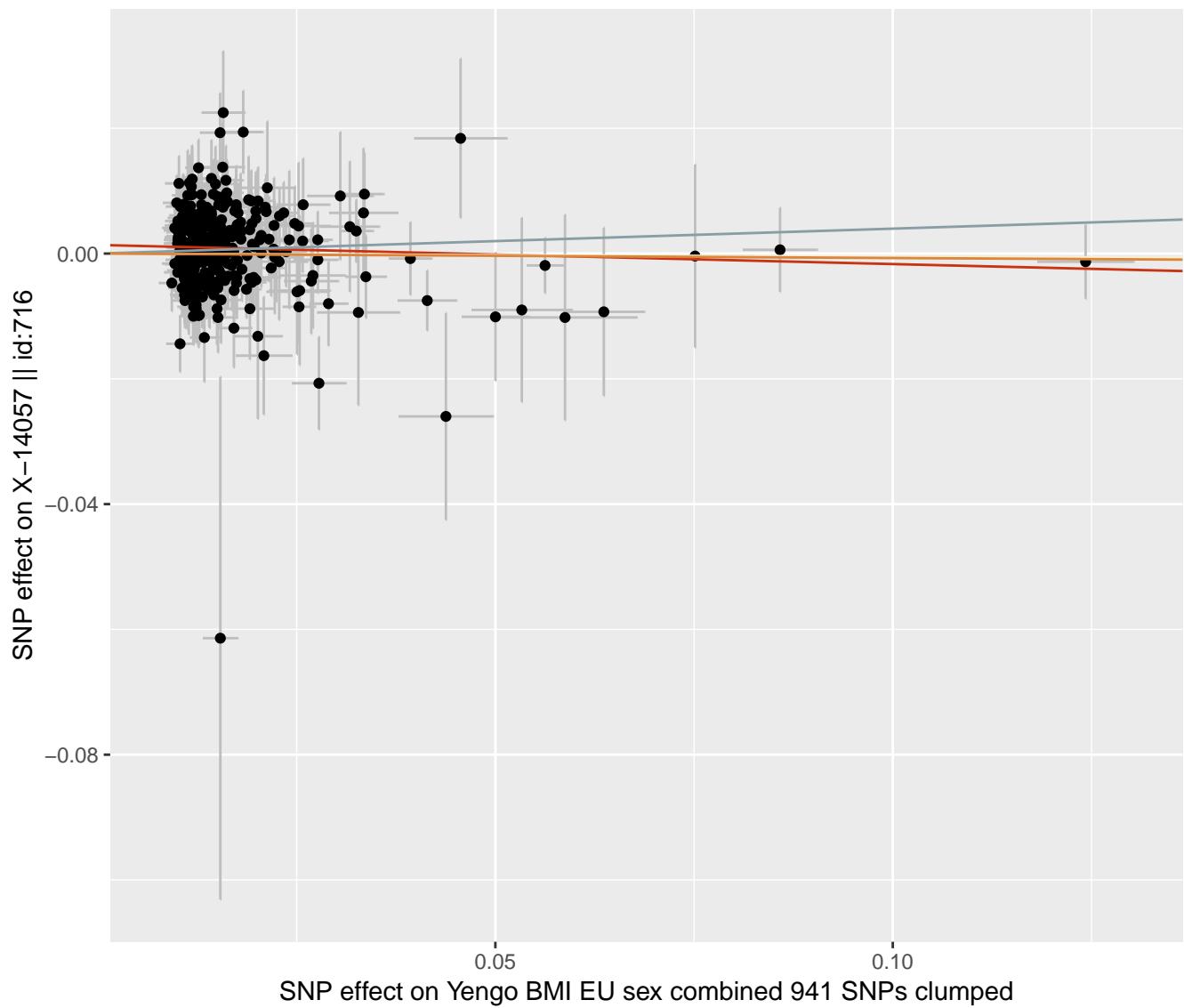
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

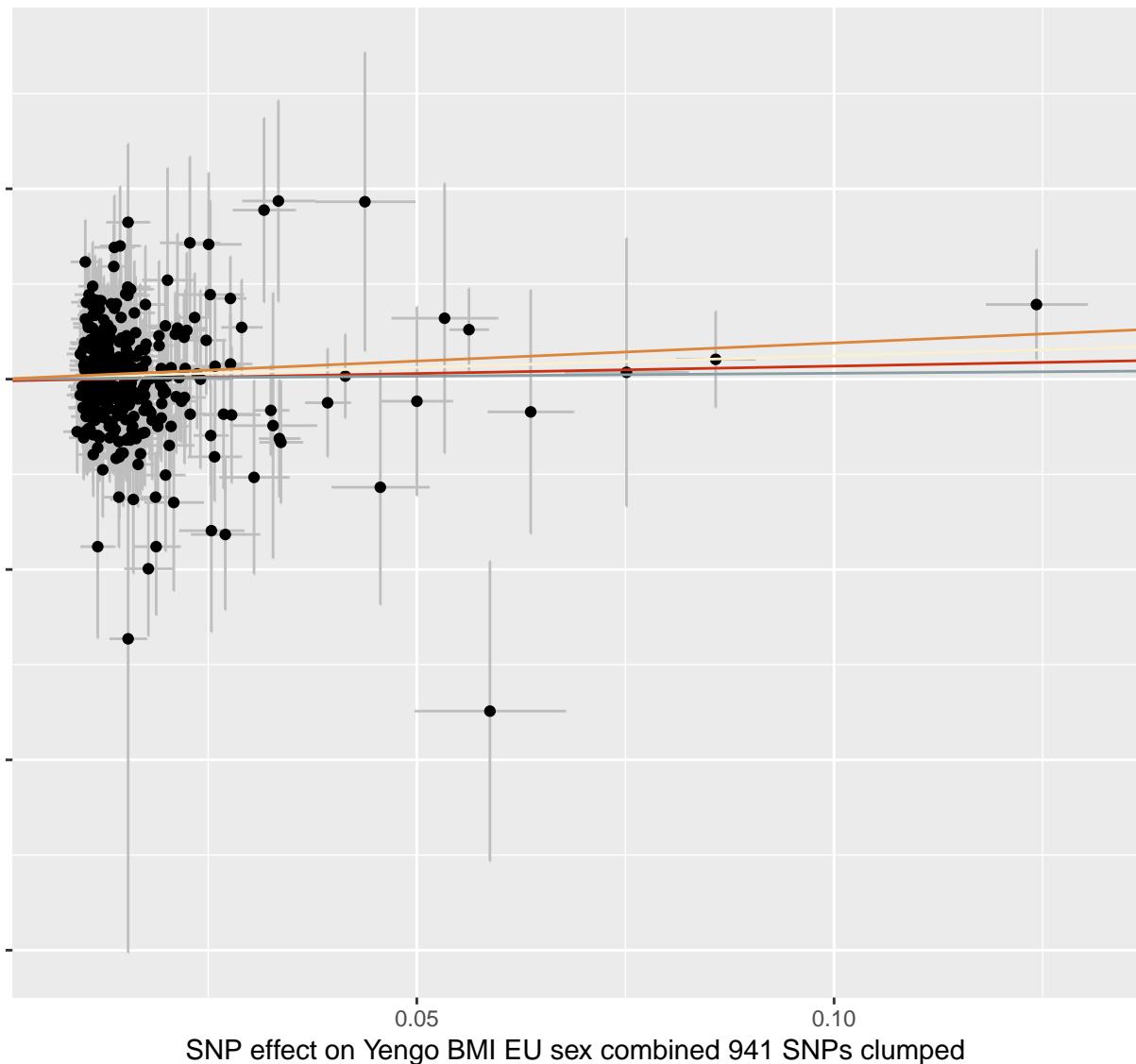


Weighted median



Weighted mode

SNP effect on X-14086 || id:717



SNP effect on Yengo BMI EU sex combined 941 SNPs clumped

## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

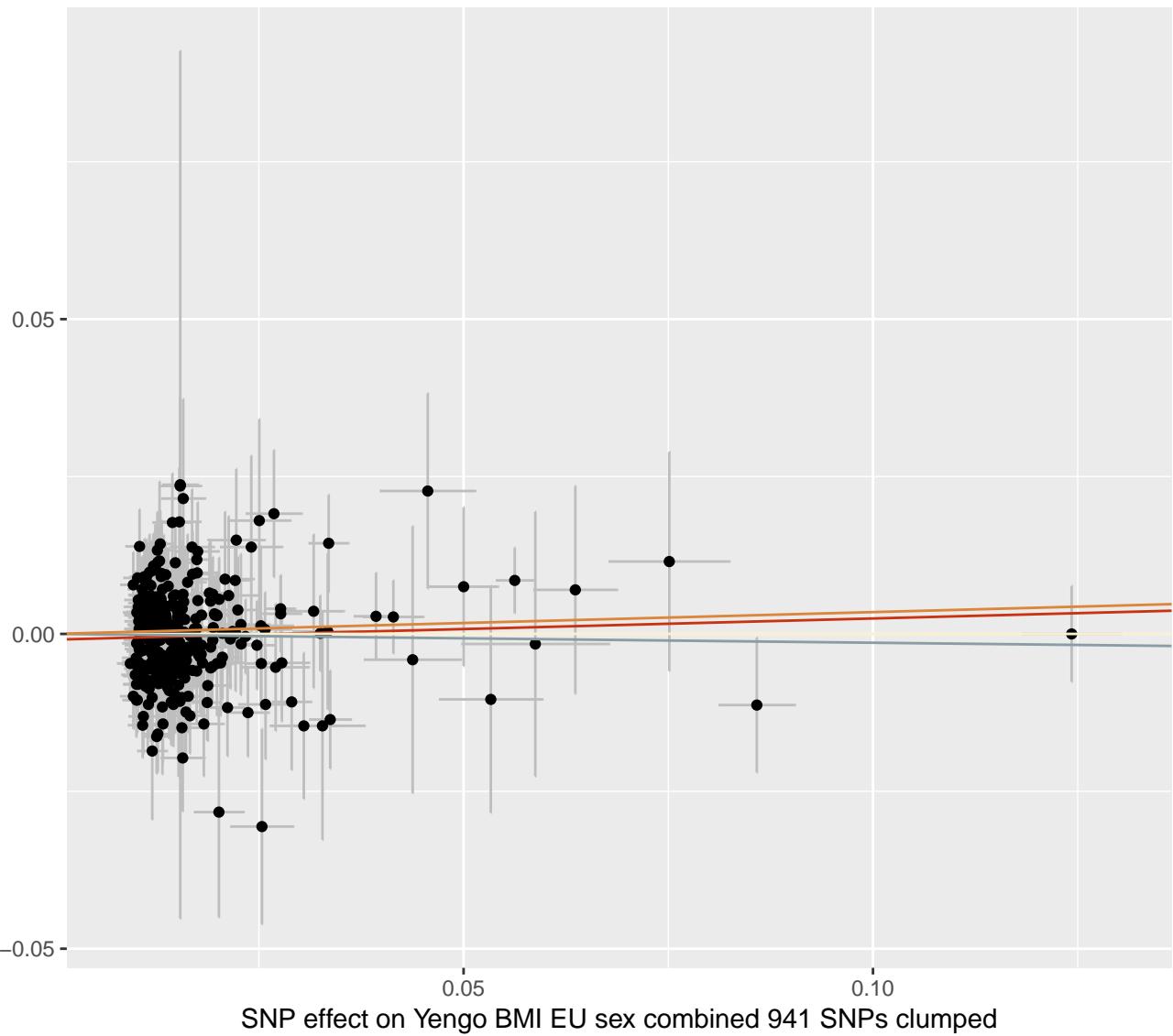


Weighted median



Weighted mode

SNP effect on P-cresol sulfate || id:718



### MR Test



Inverse variance weighted (multiplicative random effects)



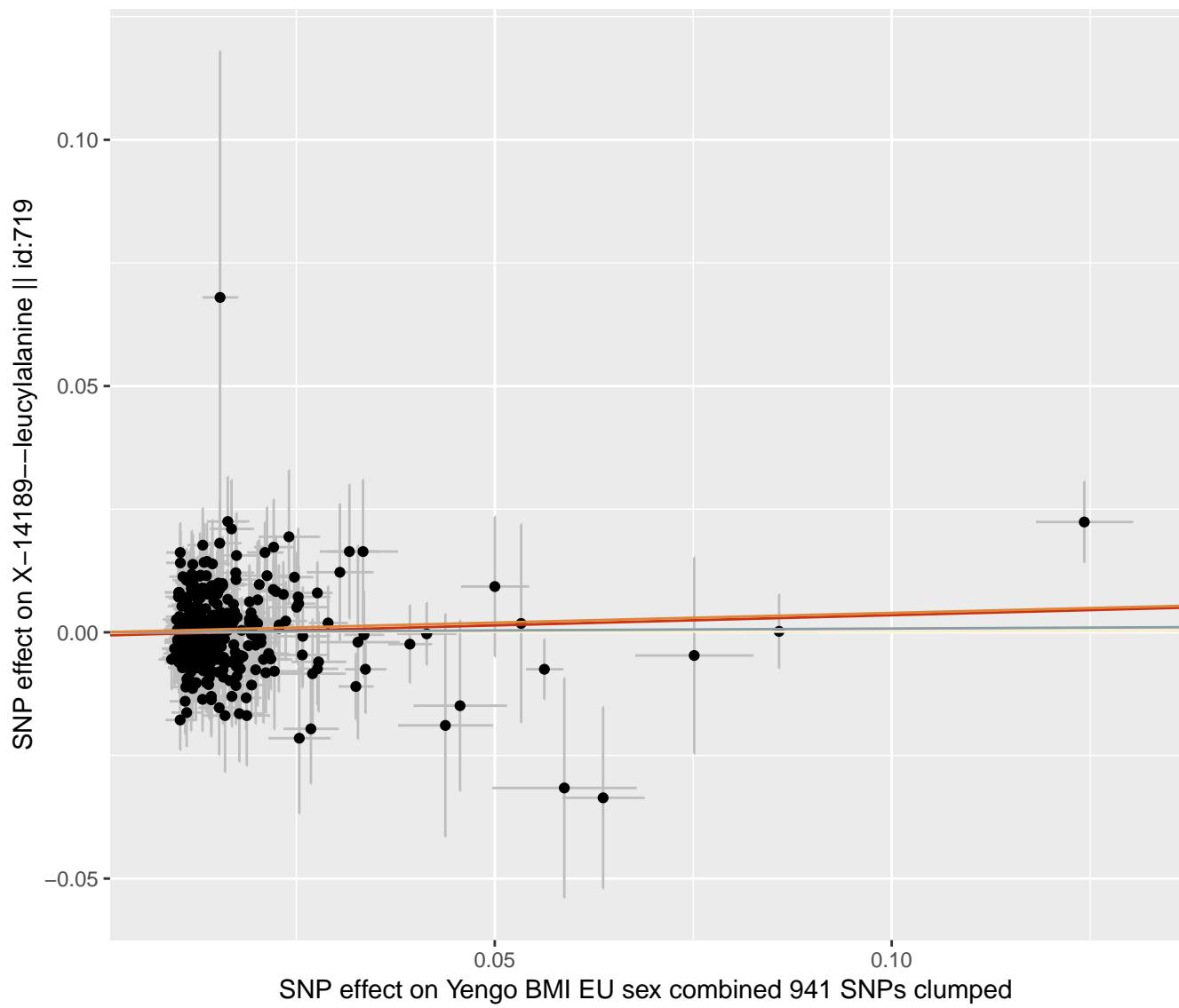
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



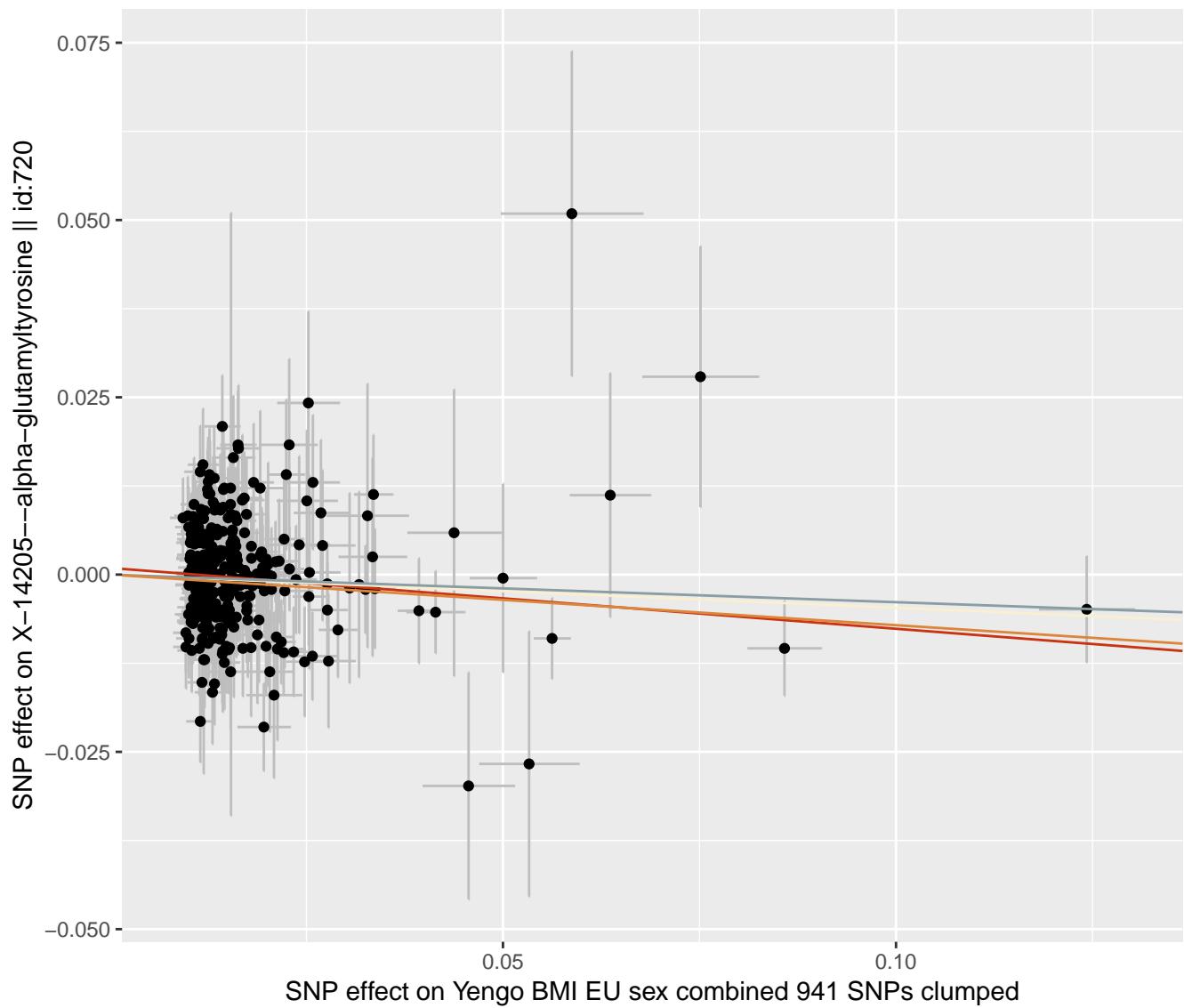
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



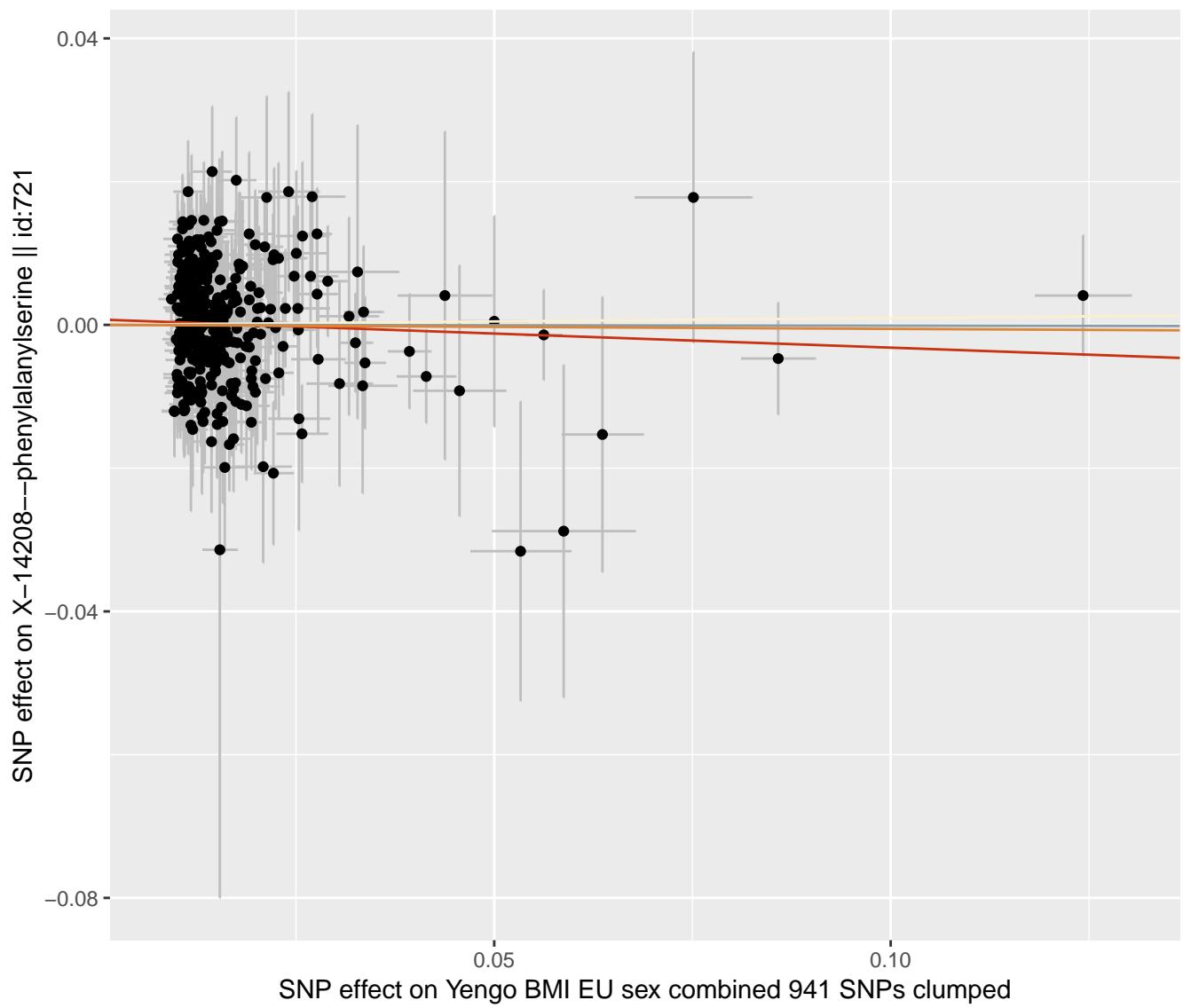
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



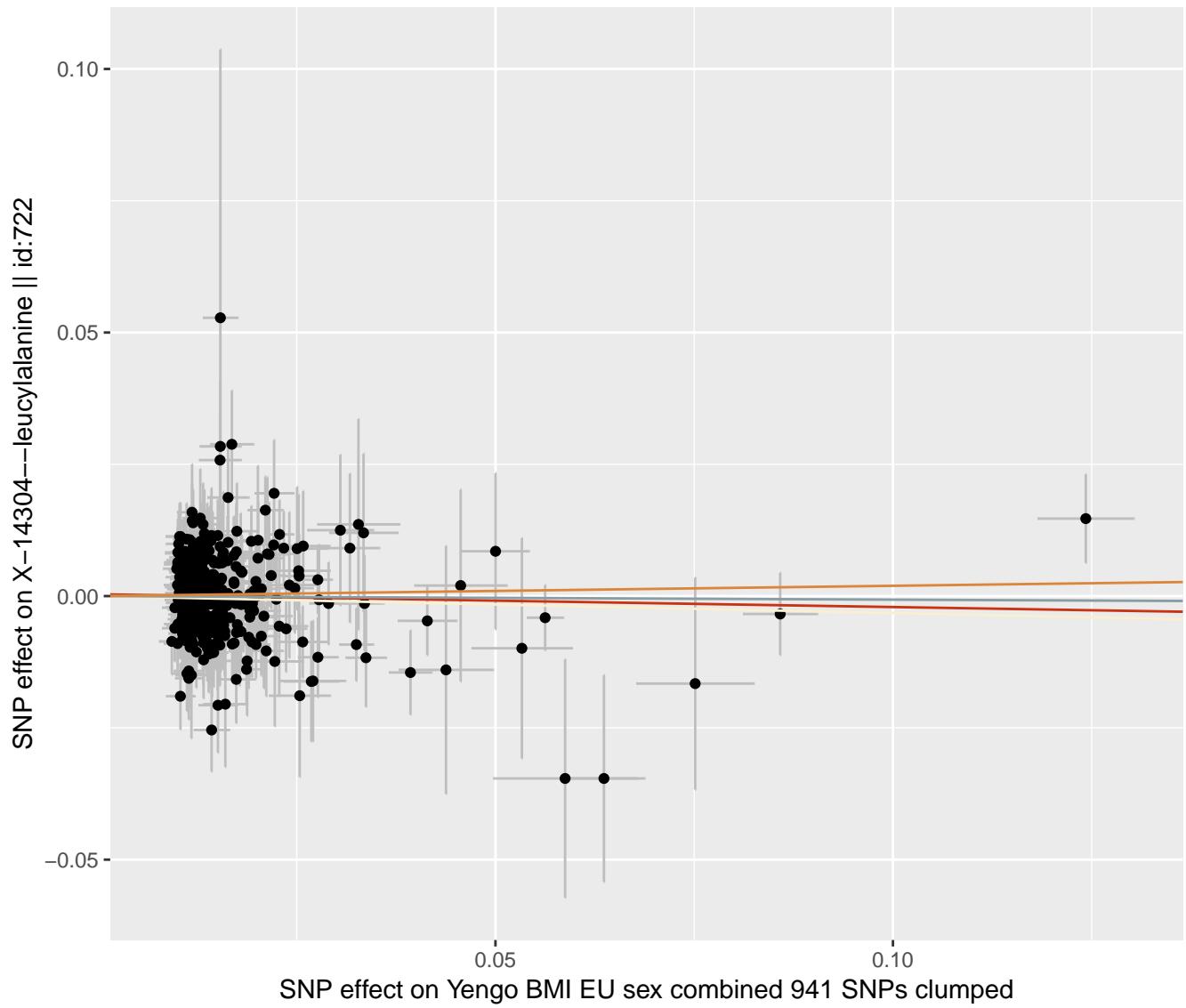
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

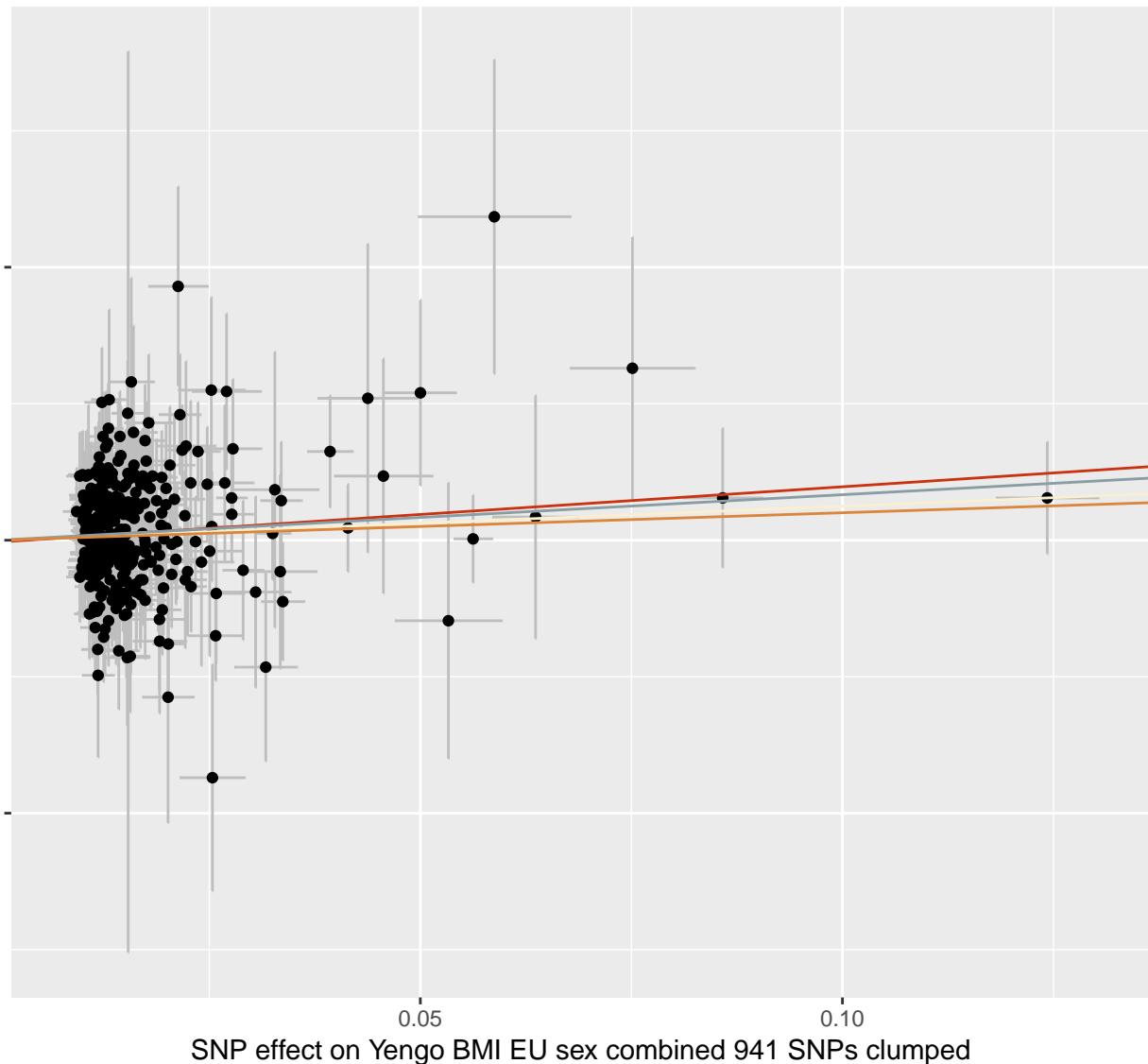


Weighted median



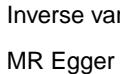
Weighted mode

SNP effect on X-14374 || id:723



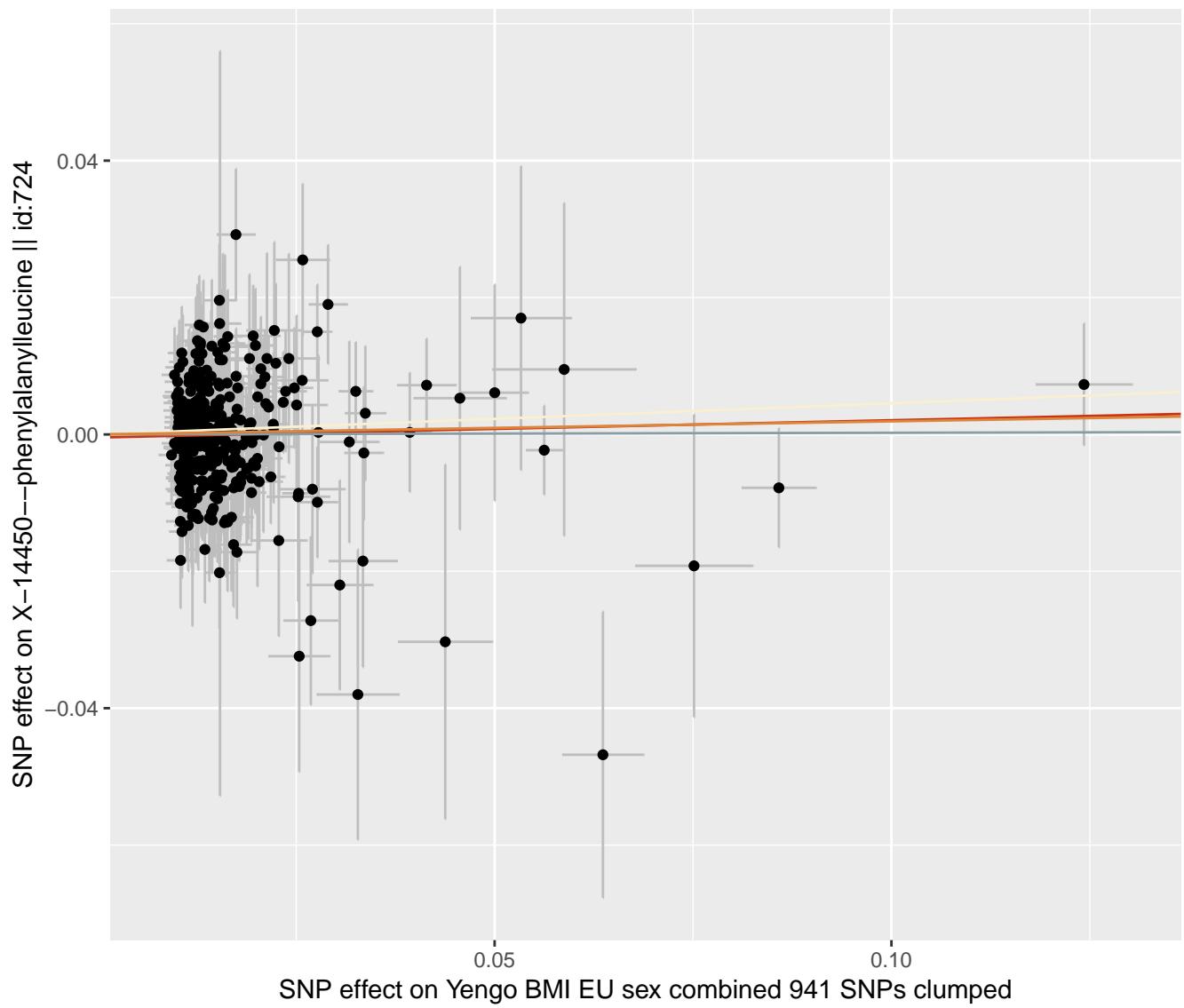
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



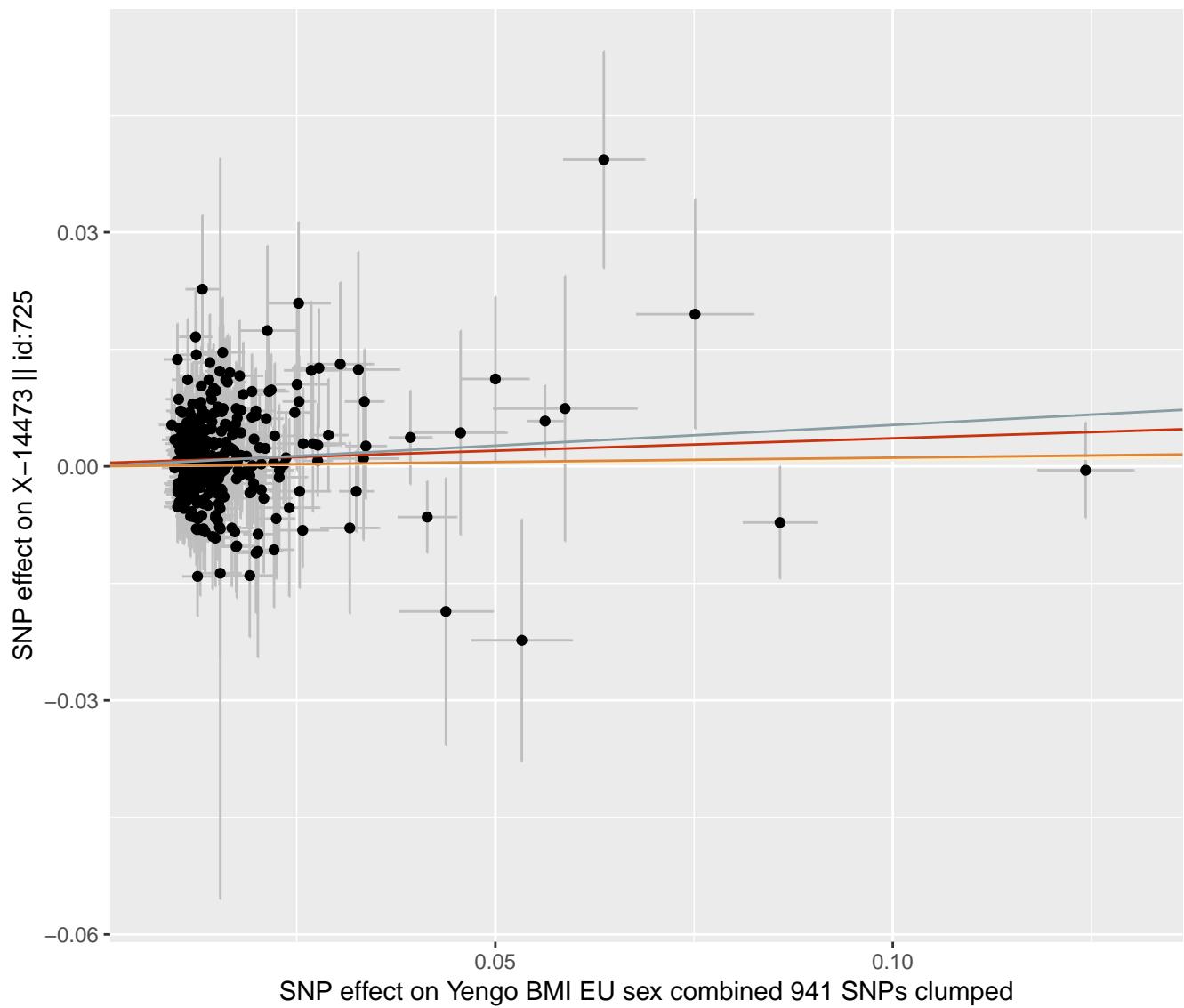
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

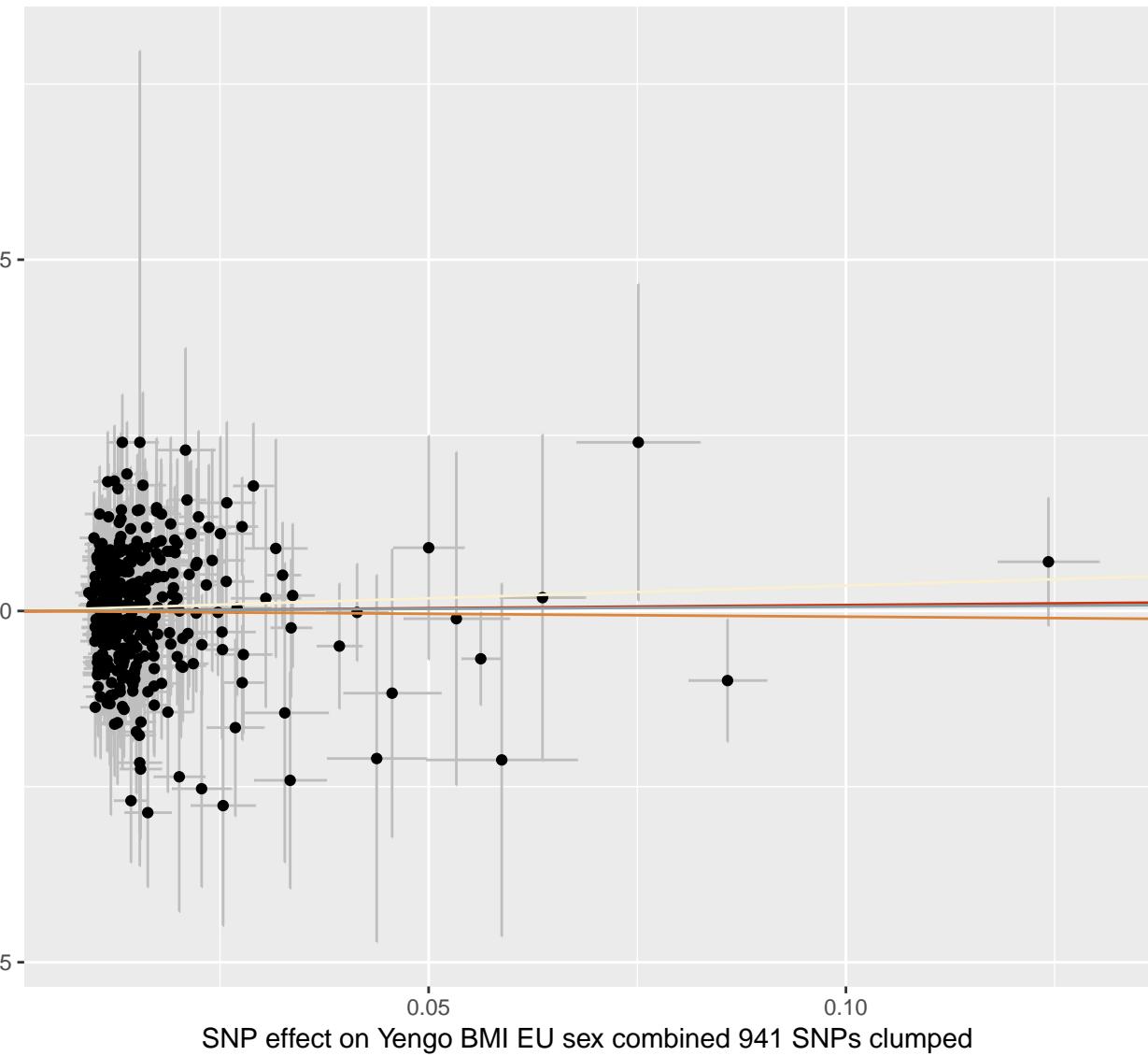


Weighted median



Weighted mode

SNP effect on X-14541 || id:726



### MR Test



Inverse variance weighted (multiplicative random effects)



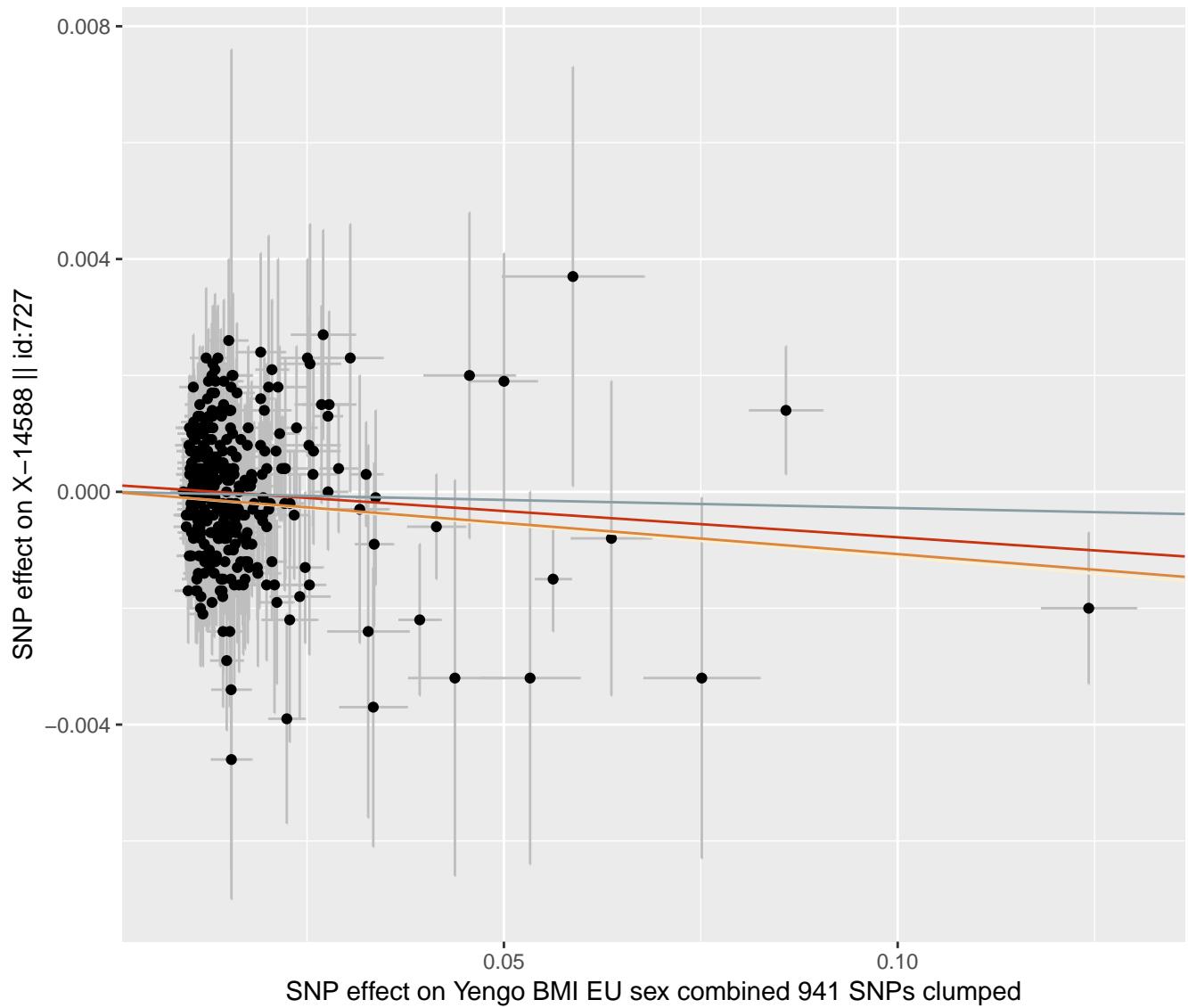
MR Egger



Weighted median



Weighted mode



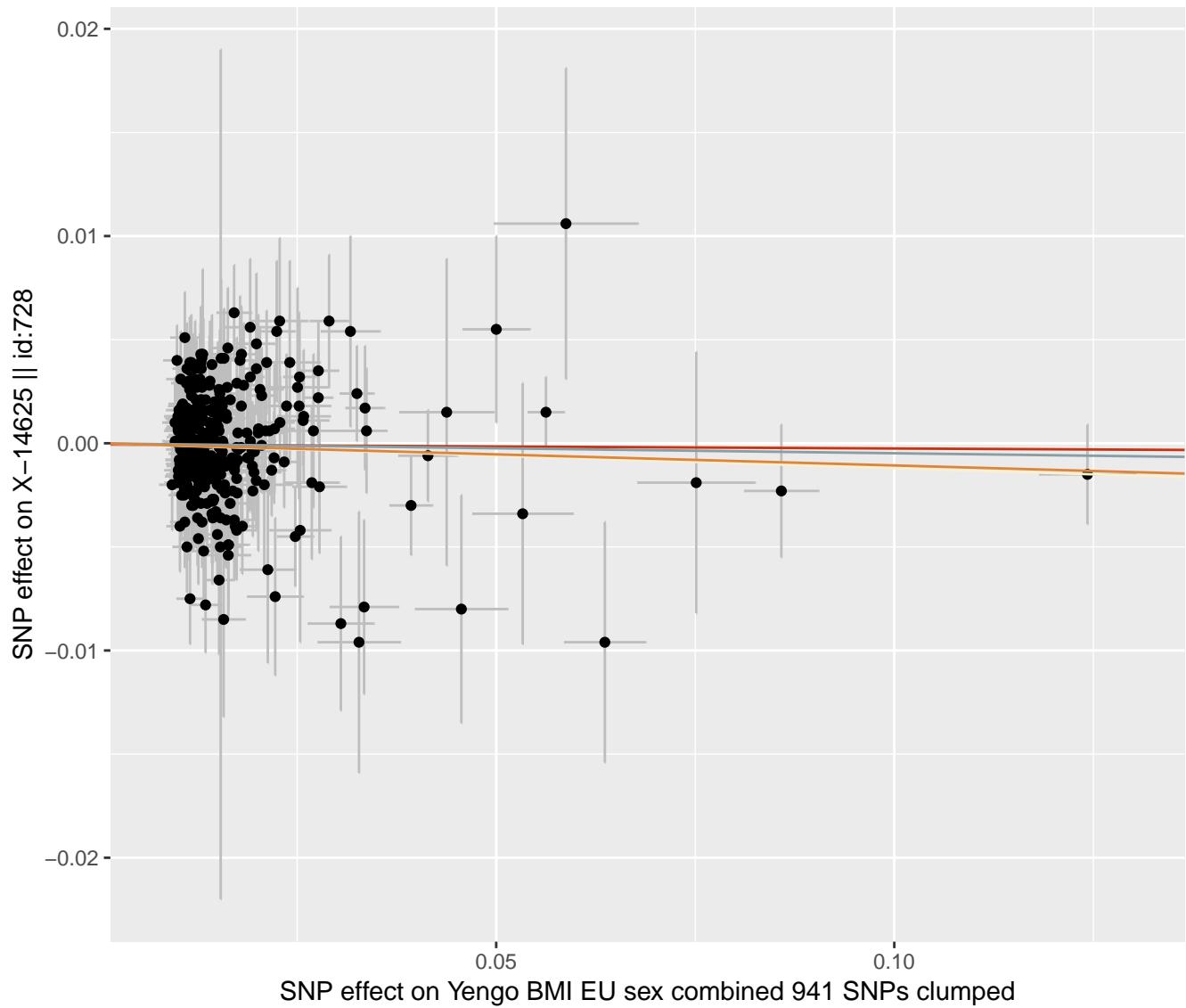
# MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



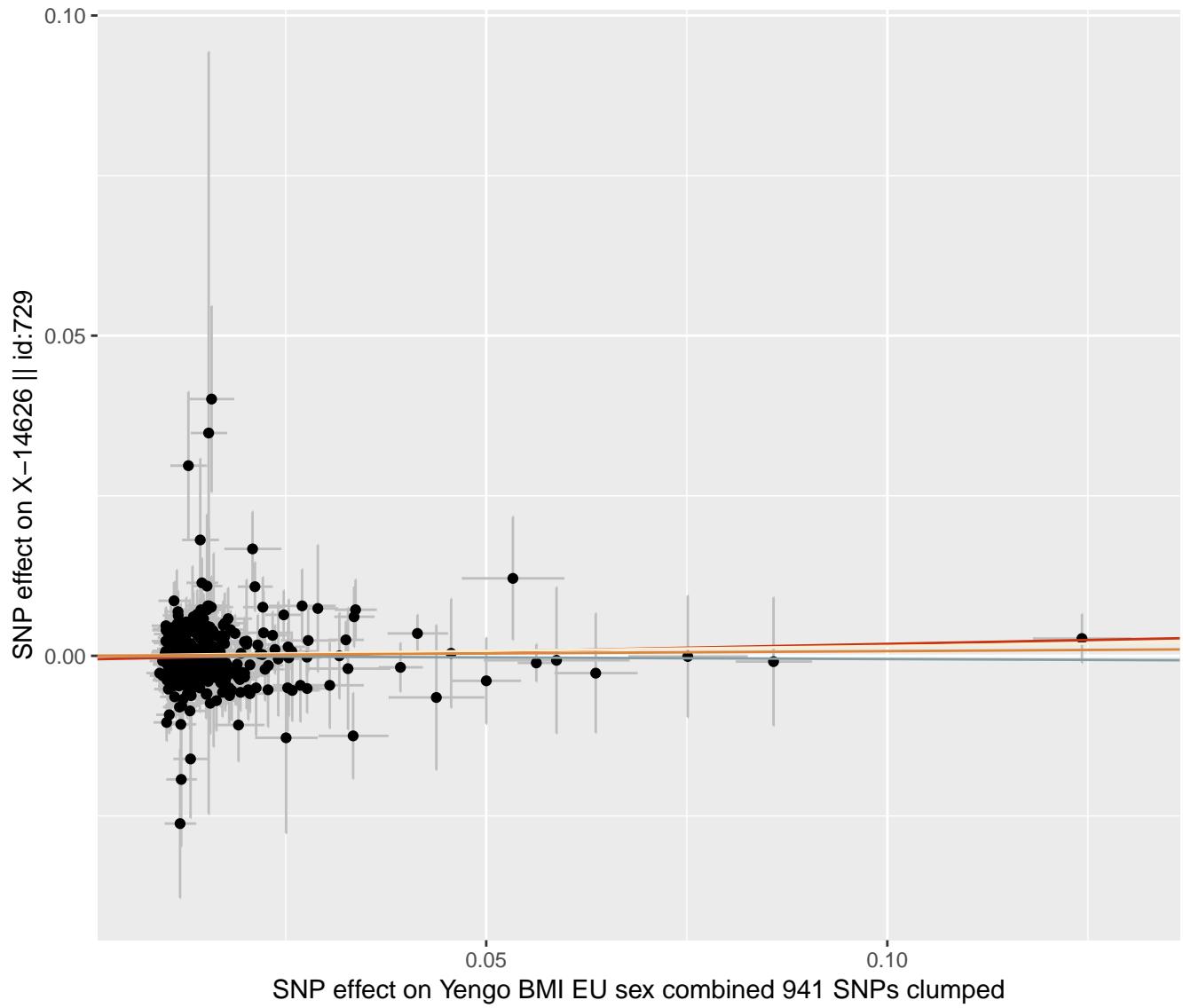
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



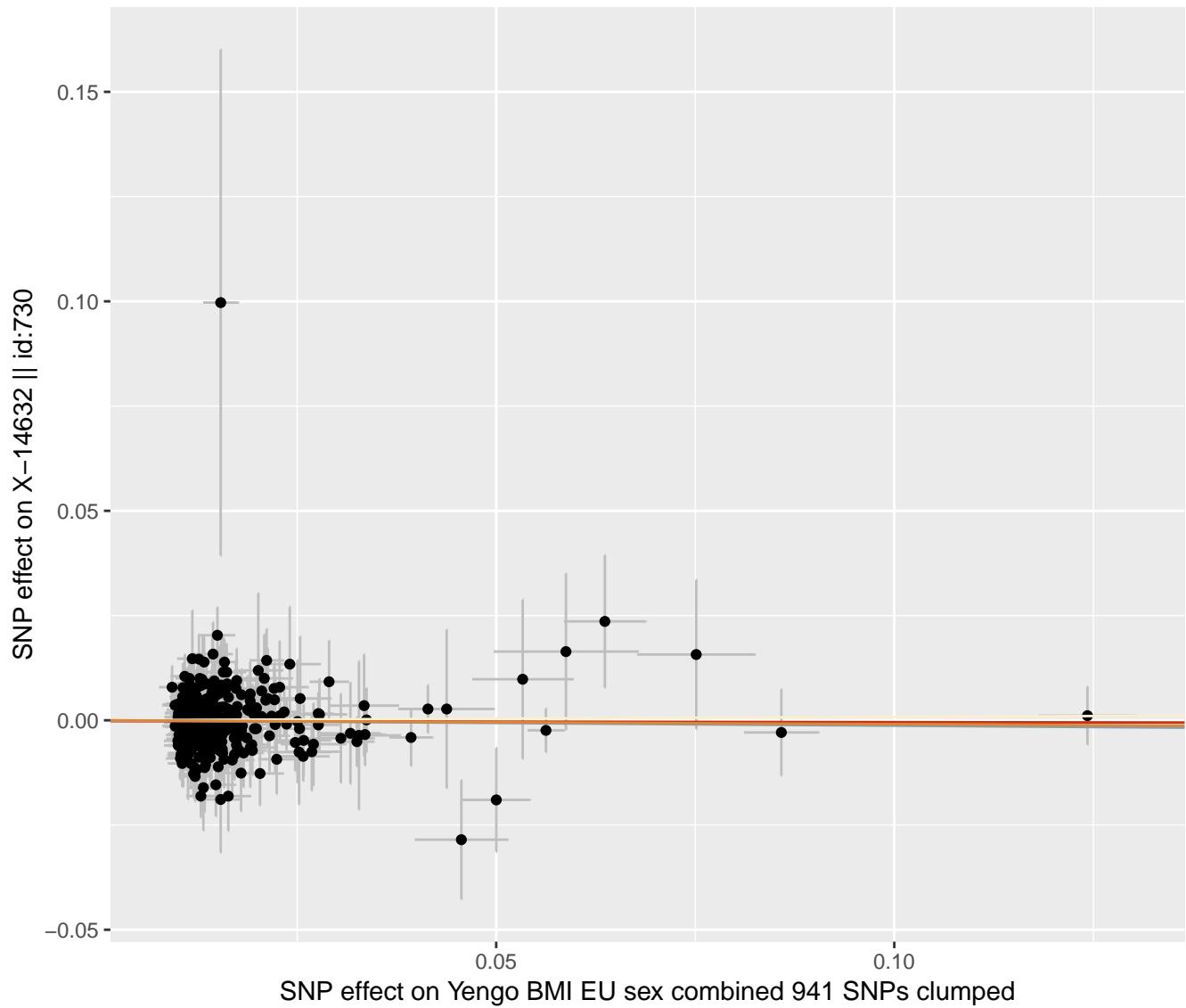
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



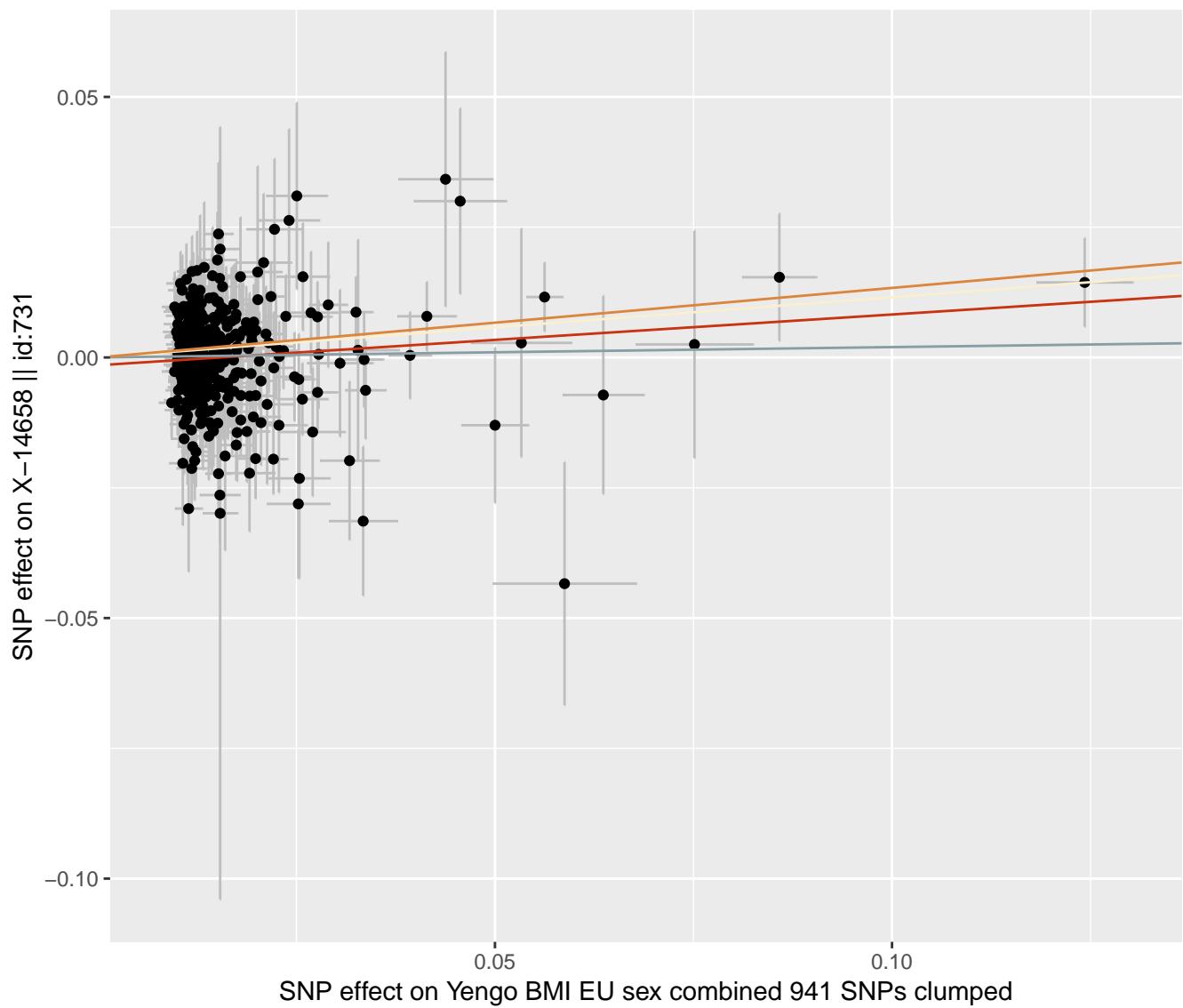
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



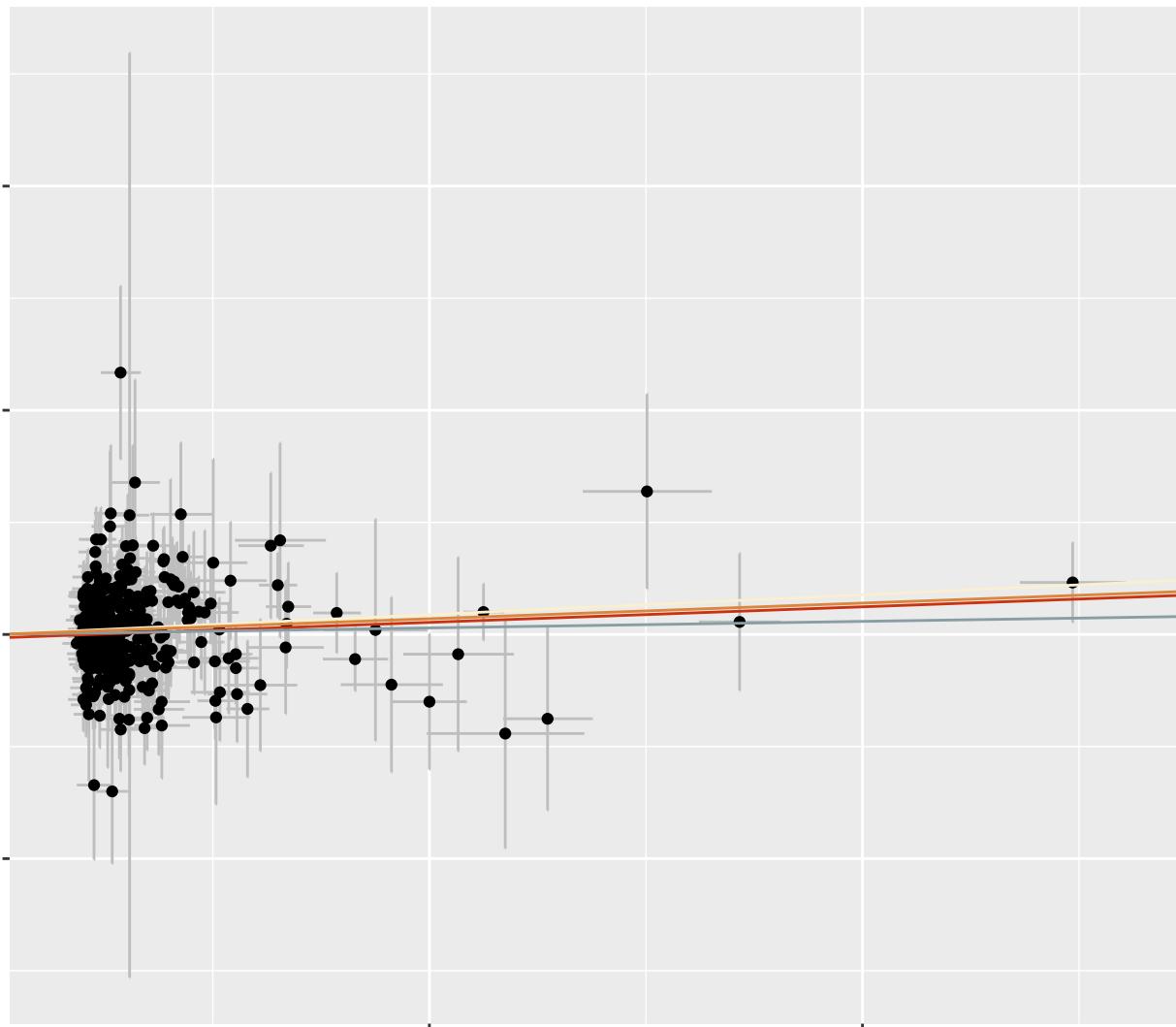
Weighted median



Weighted mode

SNP effect on X-14662 || id:732

SNP effect on Yengo BMI EU sex combined 941 SNPs clumped



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

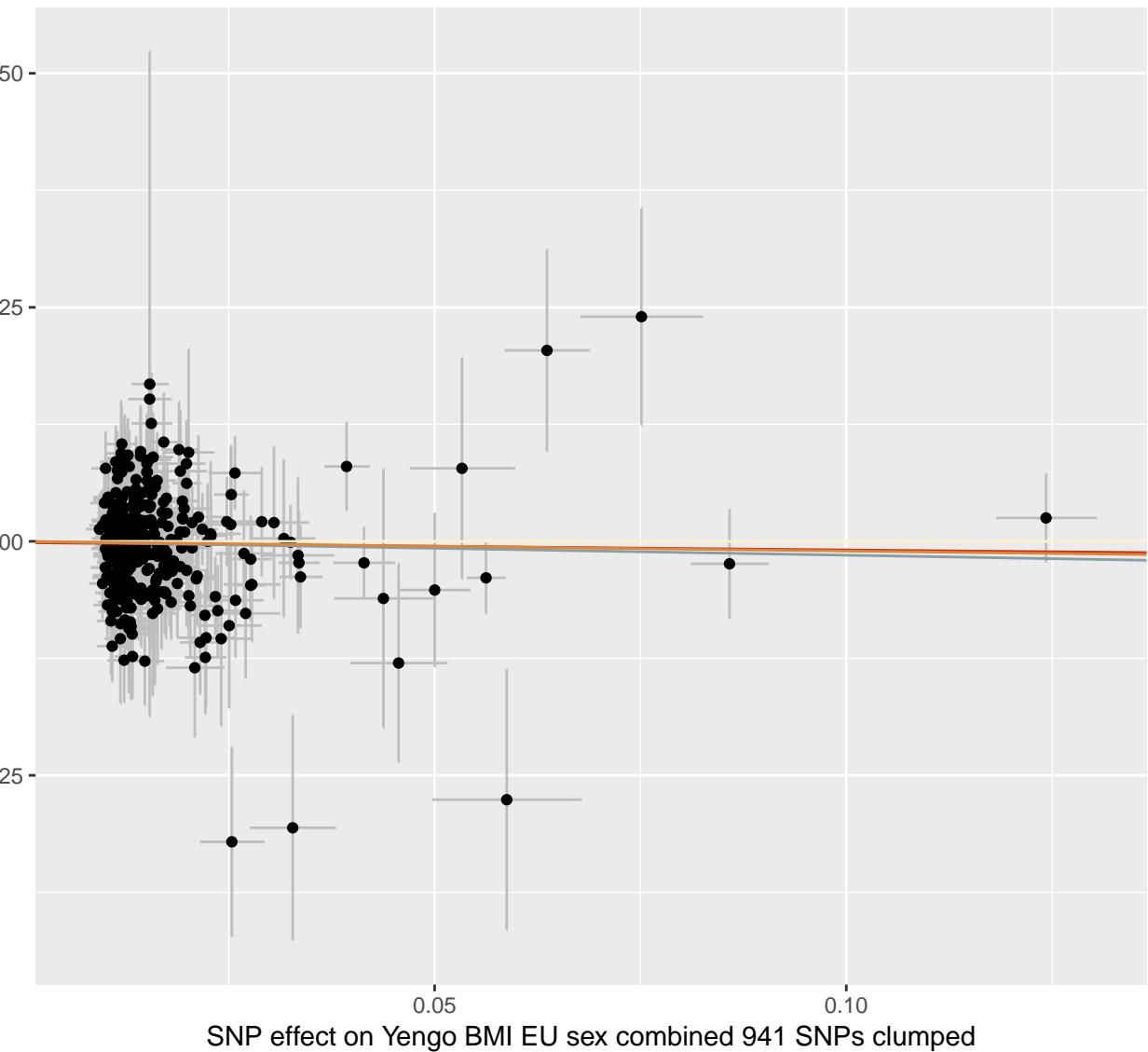


Weighted median



Weighted mode

SNP effect on X-14745 || id:733



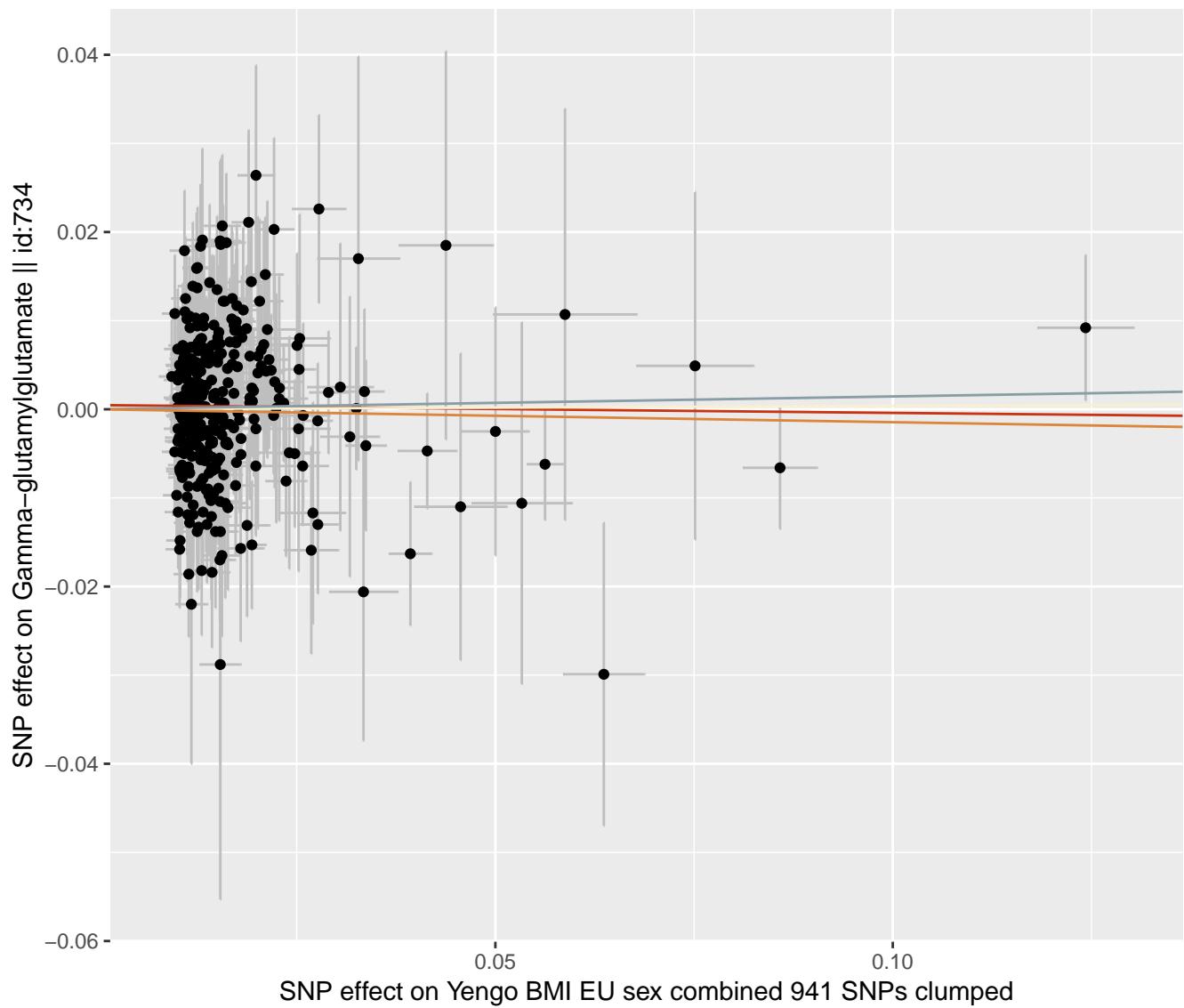
### MR Test

Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



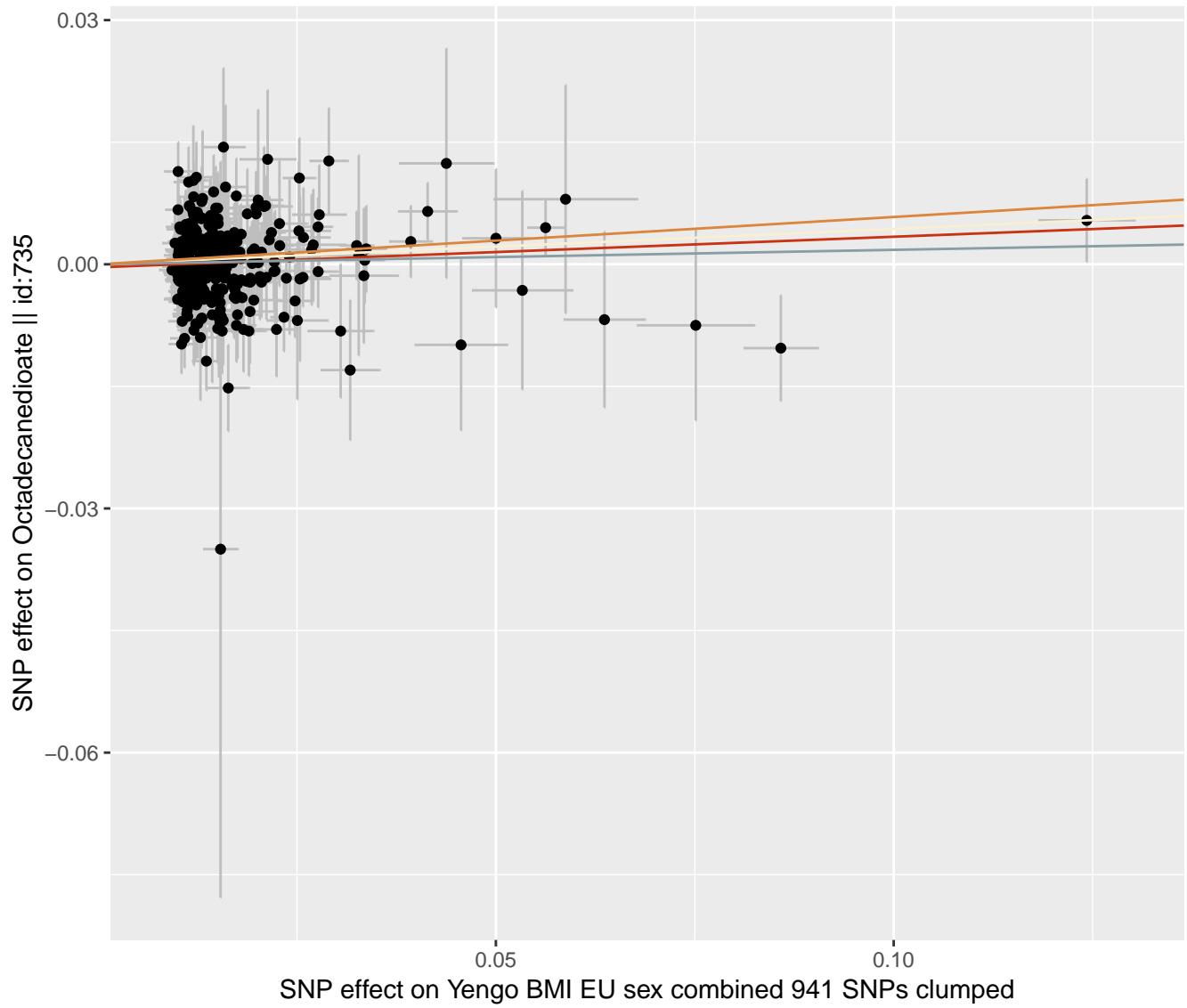
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



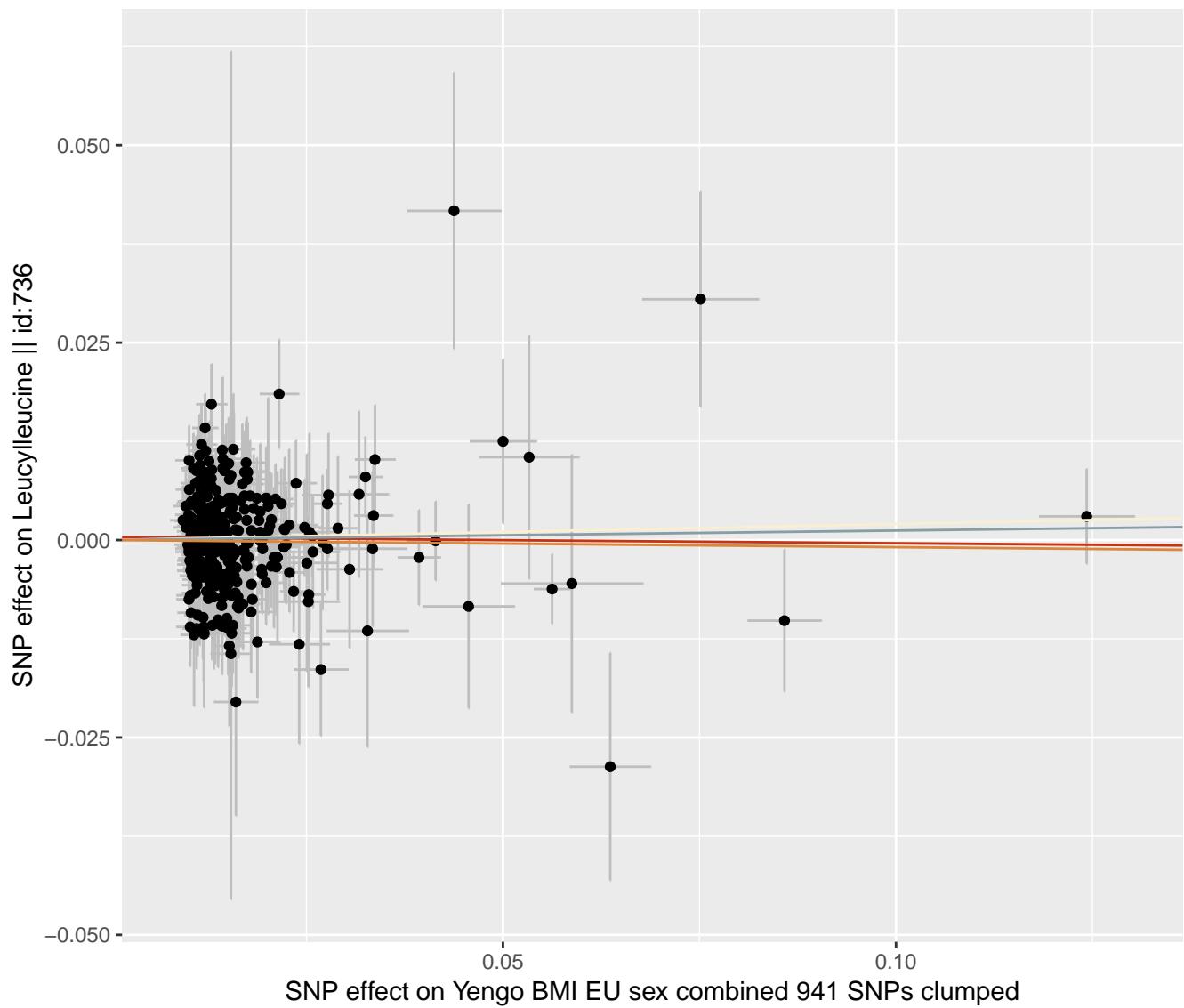
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



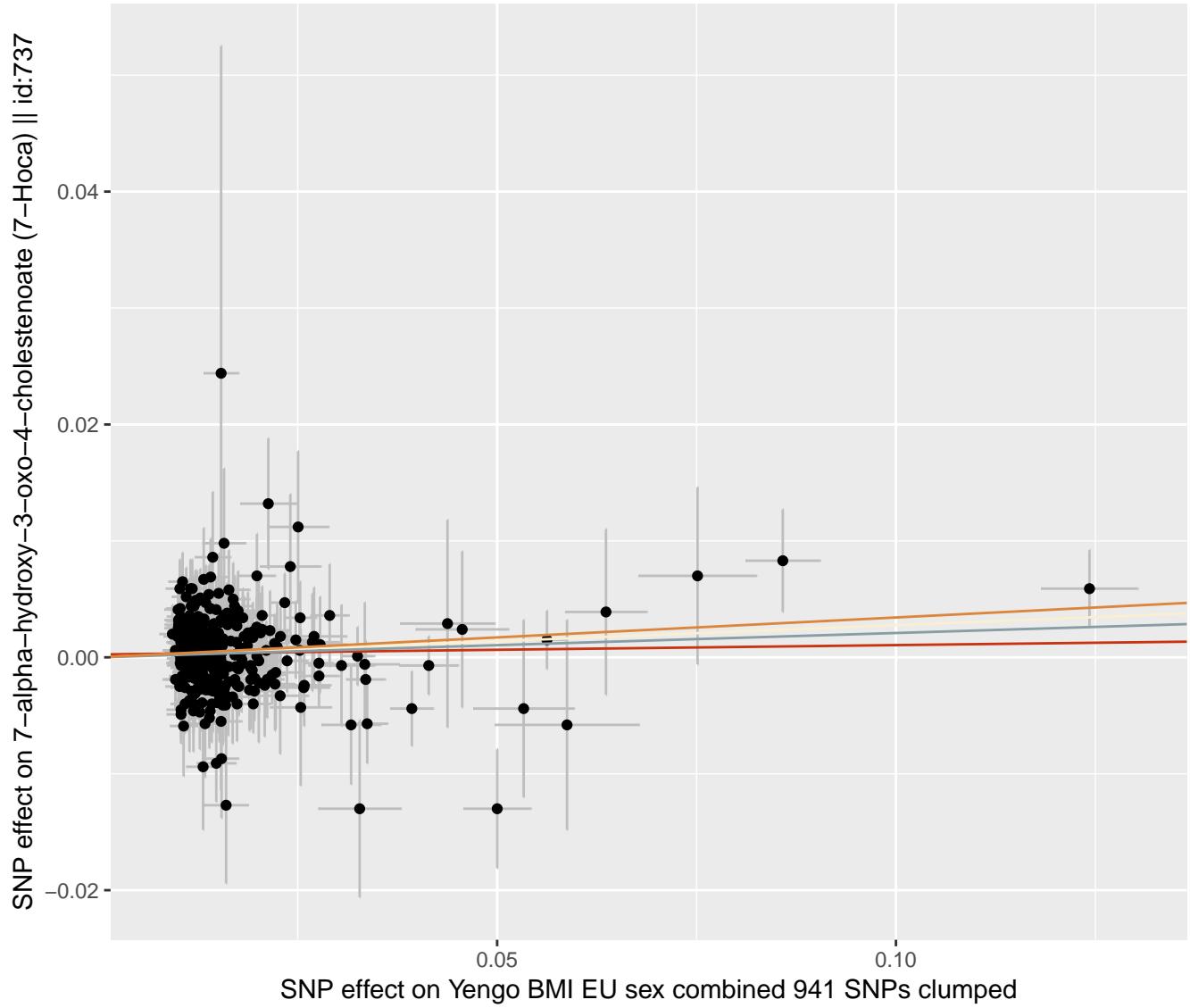
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



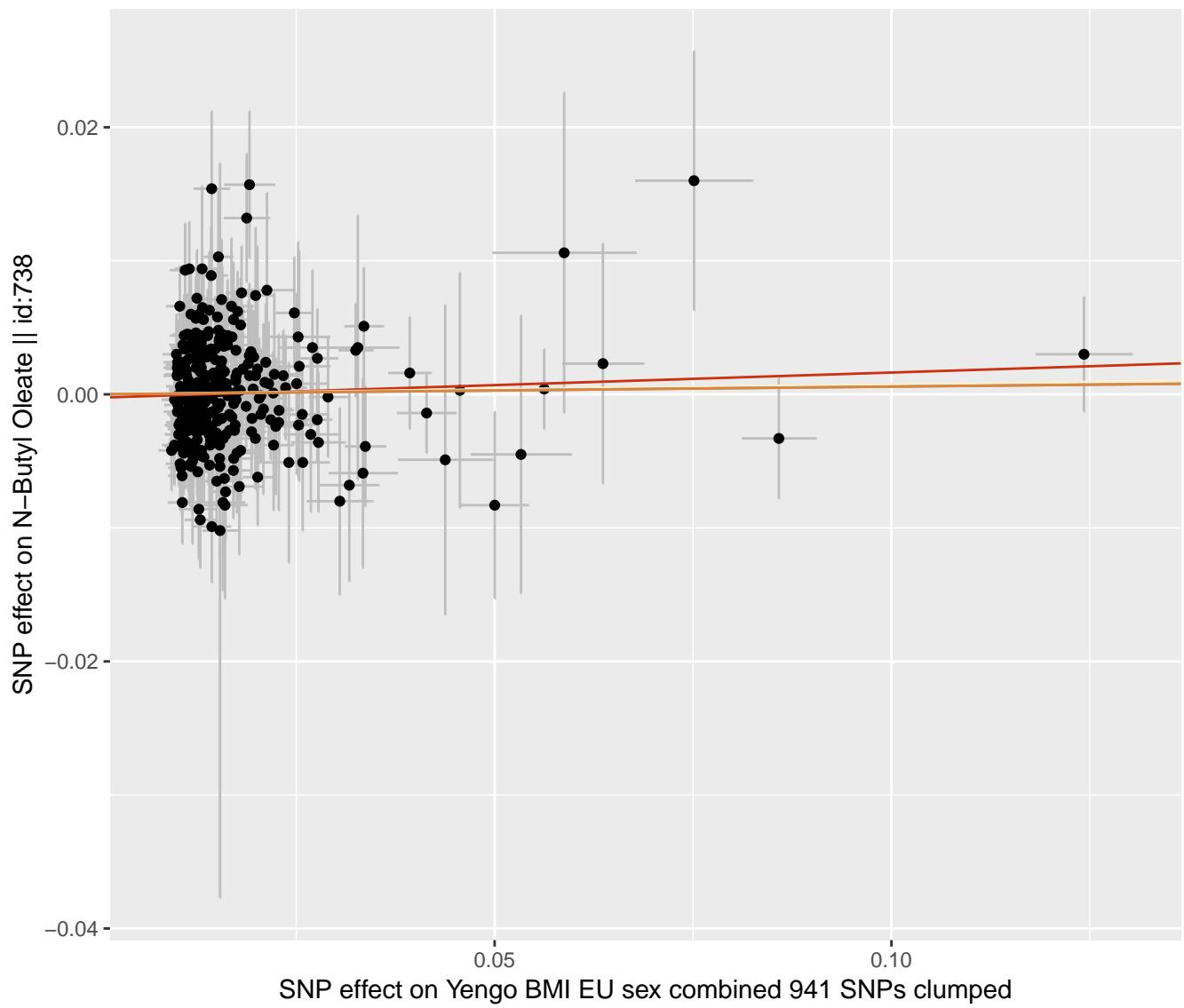
MR Egger



Weighted median



Weighted mode



### MR Test

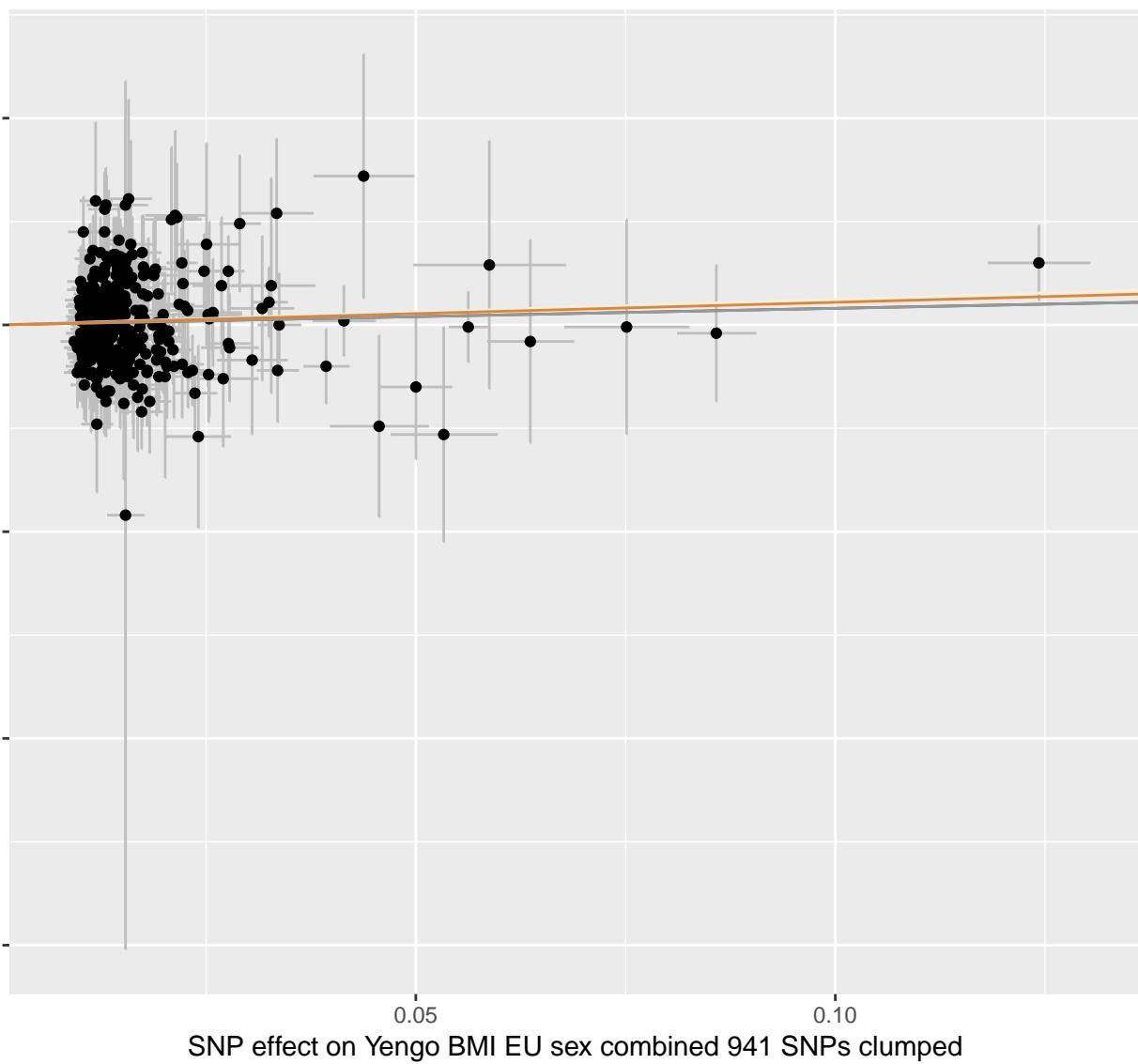
 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode

SNP effect on Dimethylarginine (SDMA + ADMA) || id:739



### MR Test



Inverse variance weighted (multiplicative random effects)



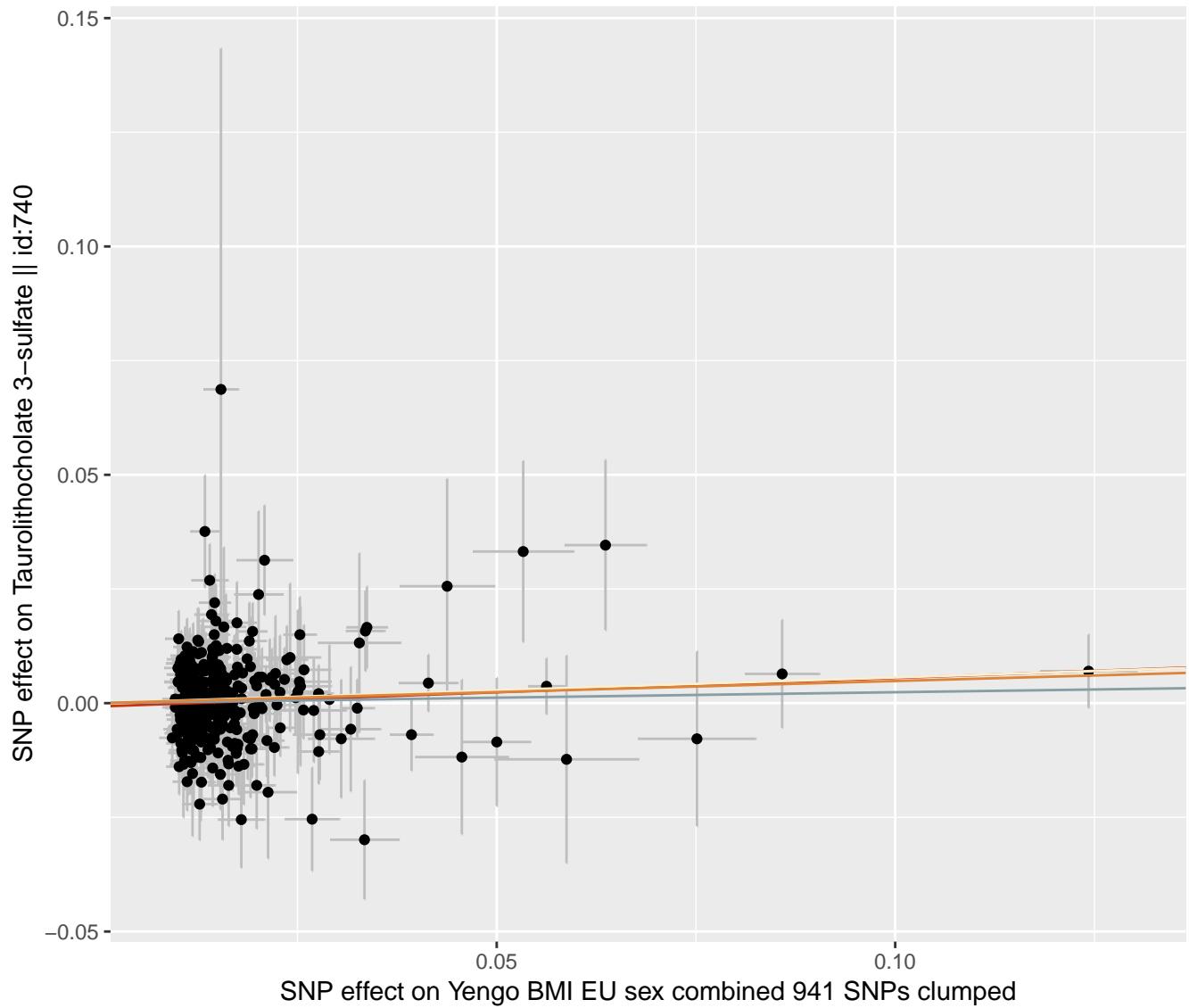
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



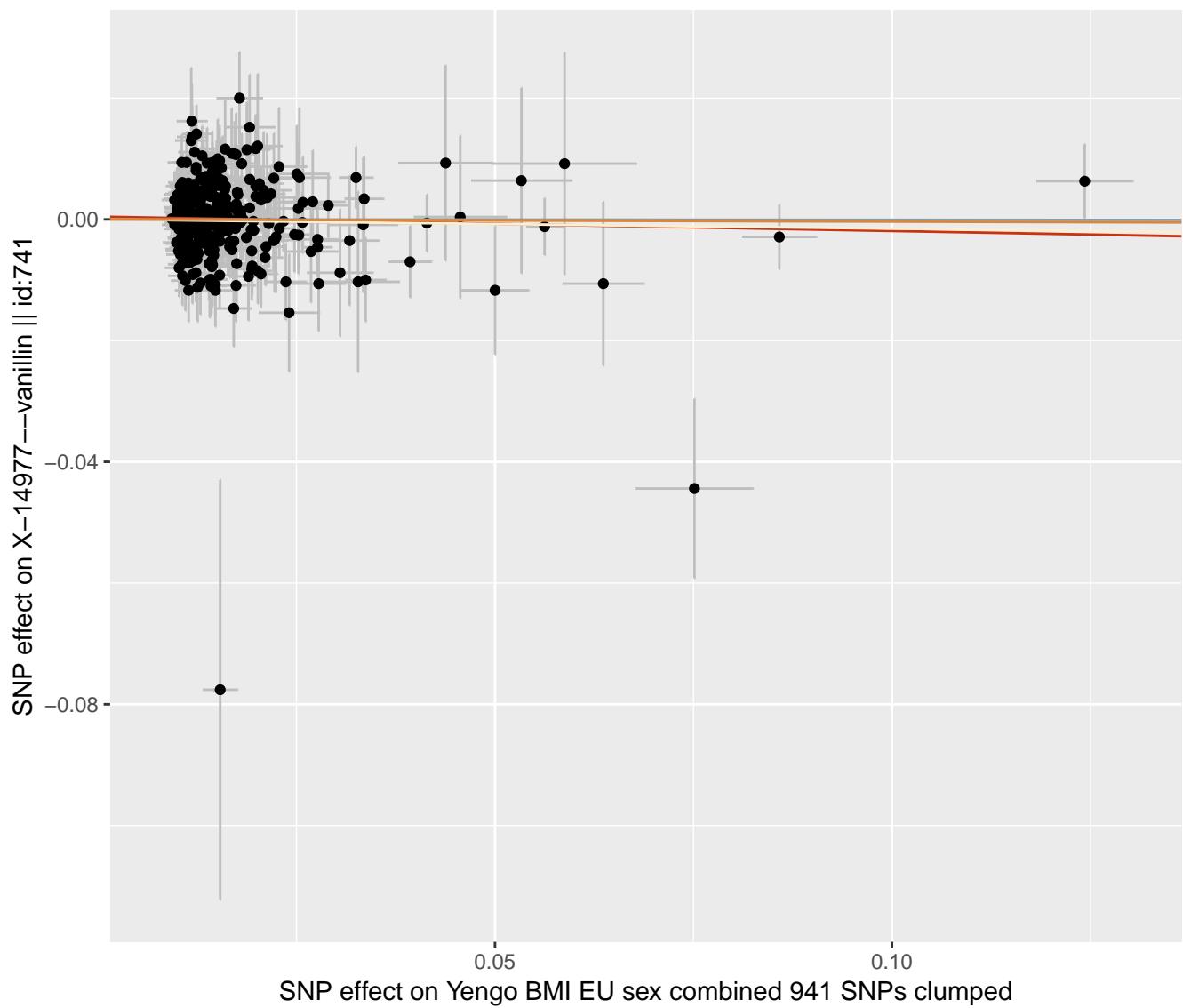
MR Egger



Weighted median

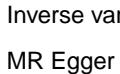


Weighted mode



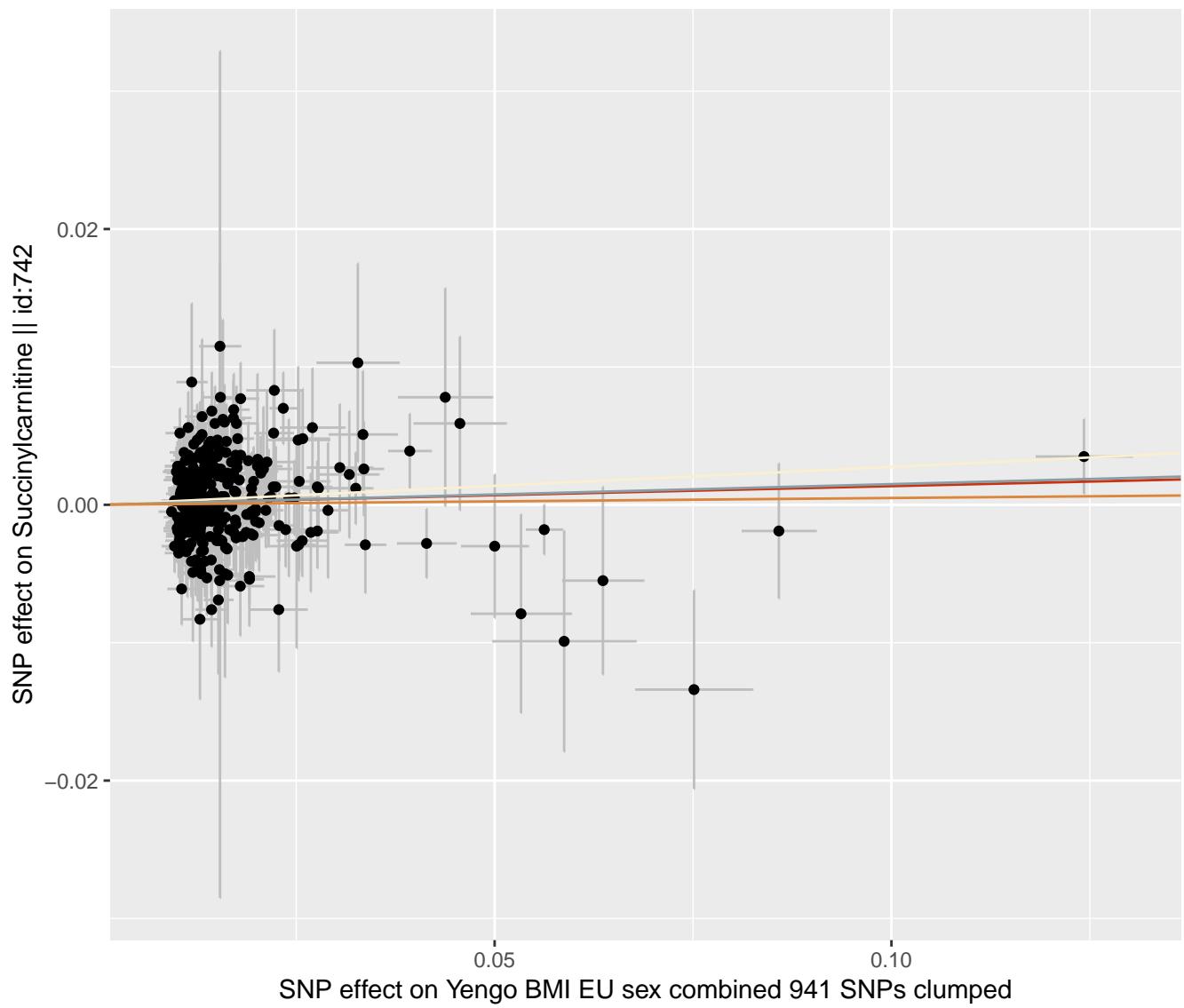
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



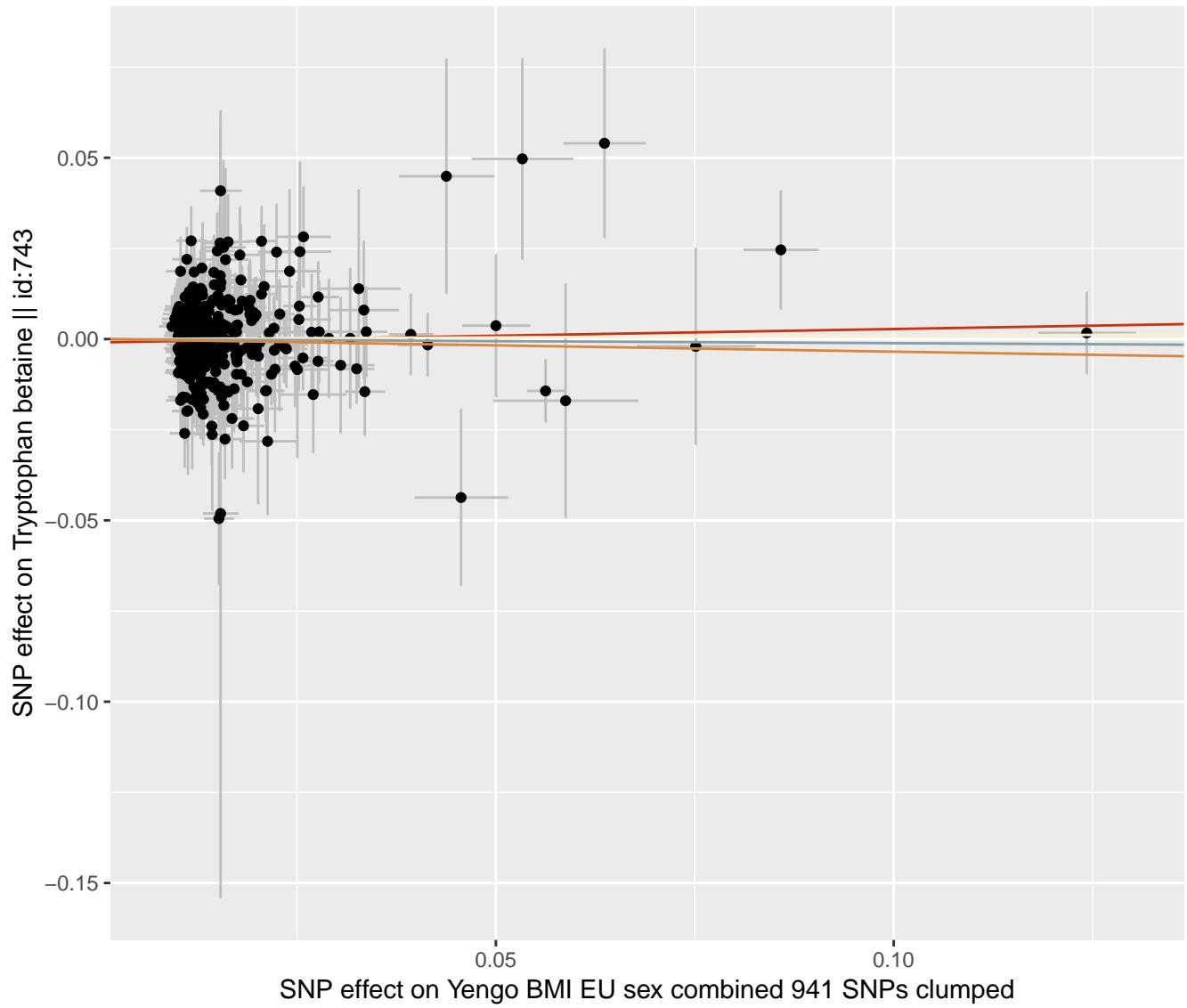
### MR Test

 Inverse variance weighted (multiplicative random effects)

 MR Egger

 Weighted median

 Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



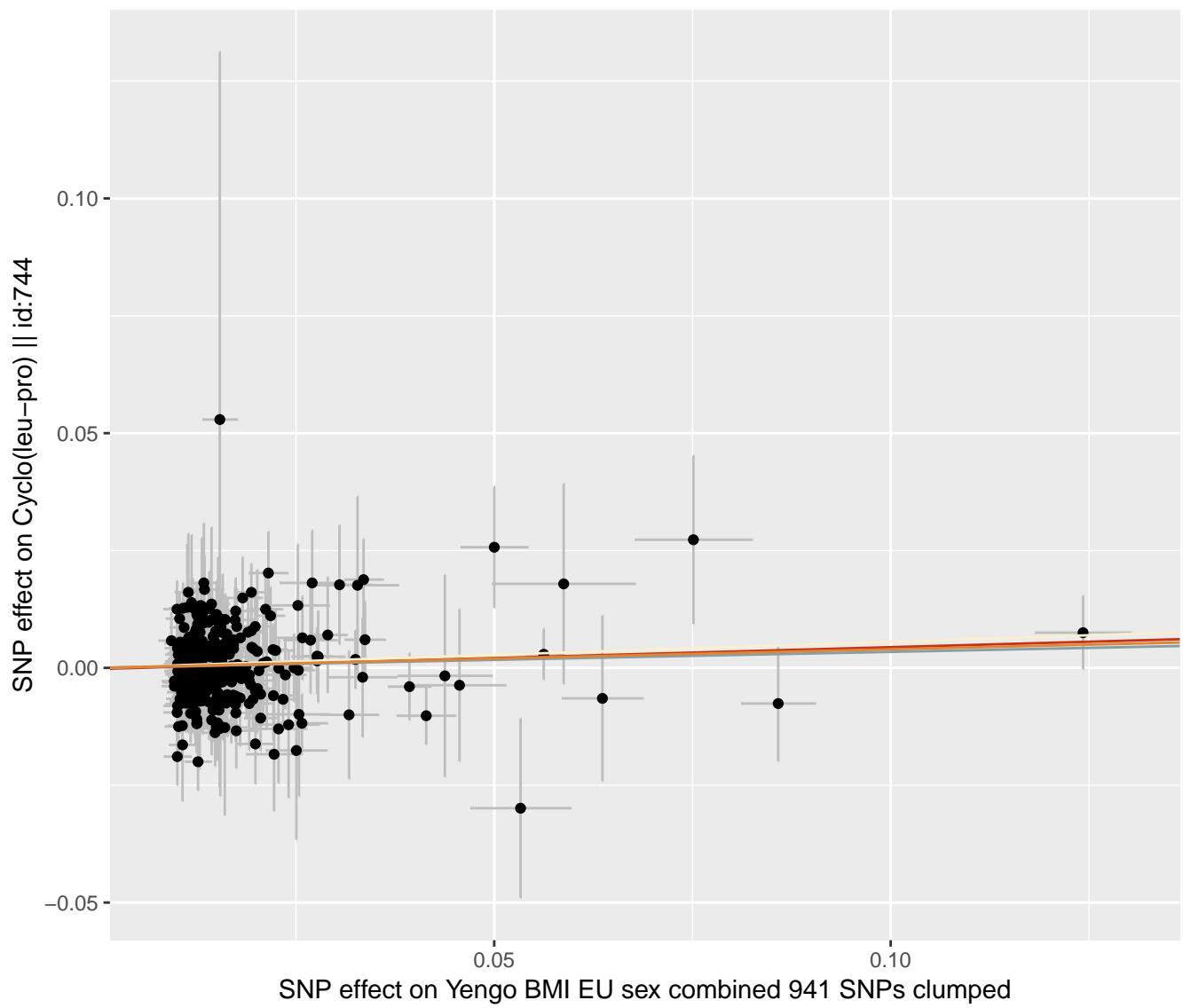
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



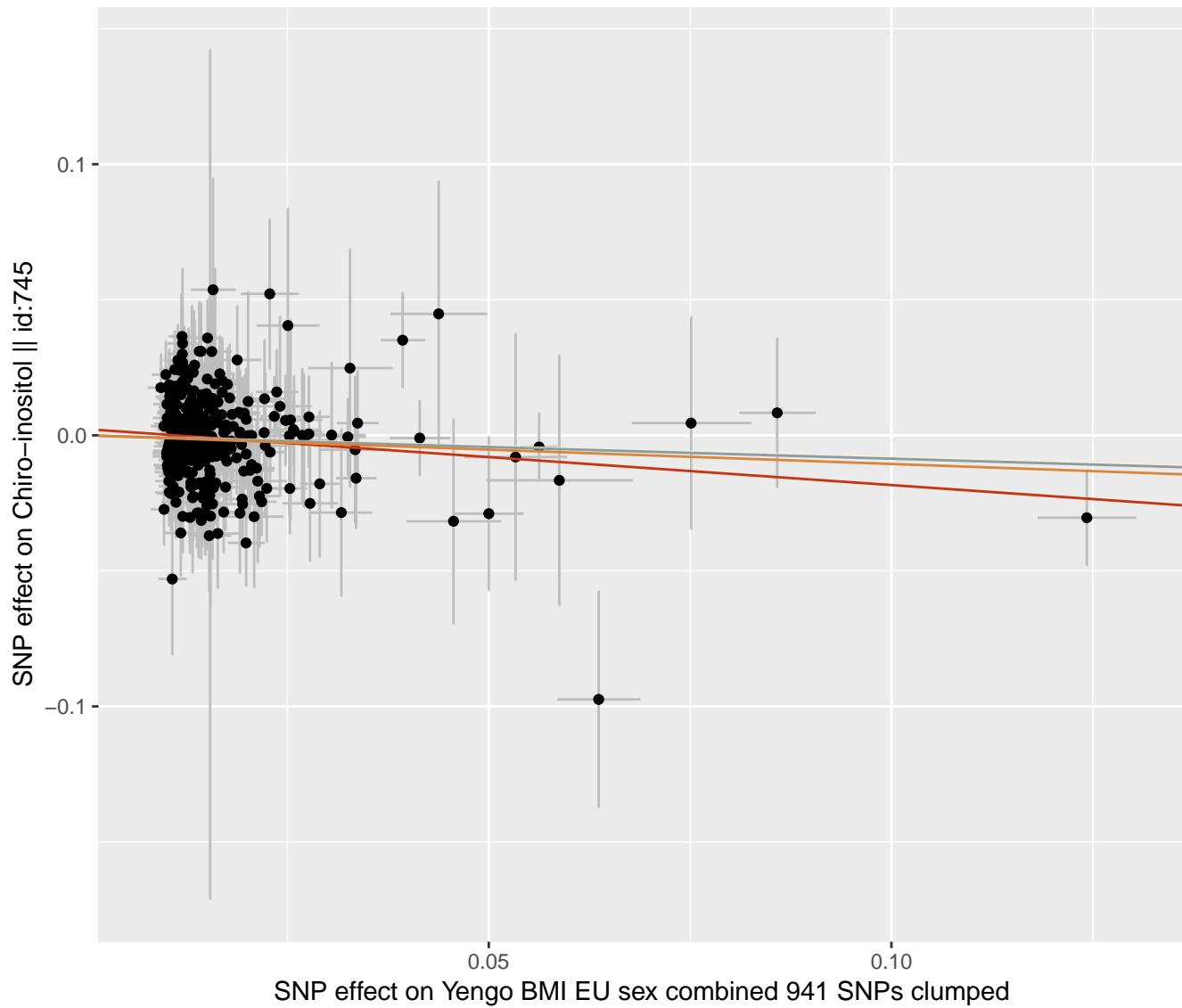
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



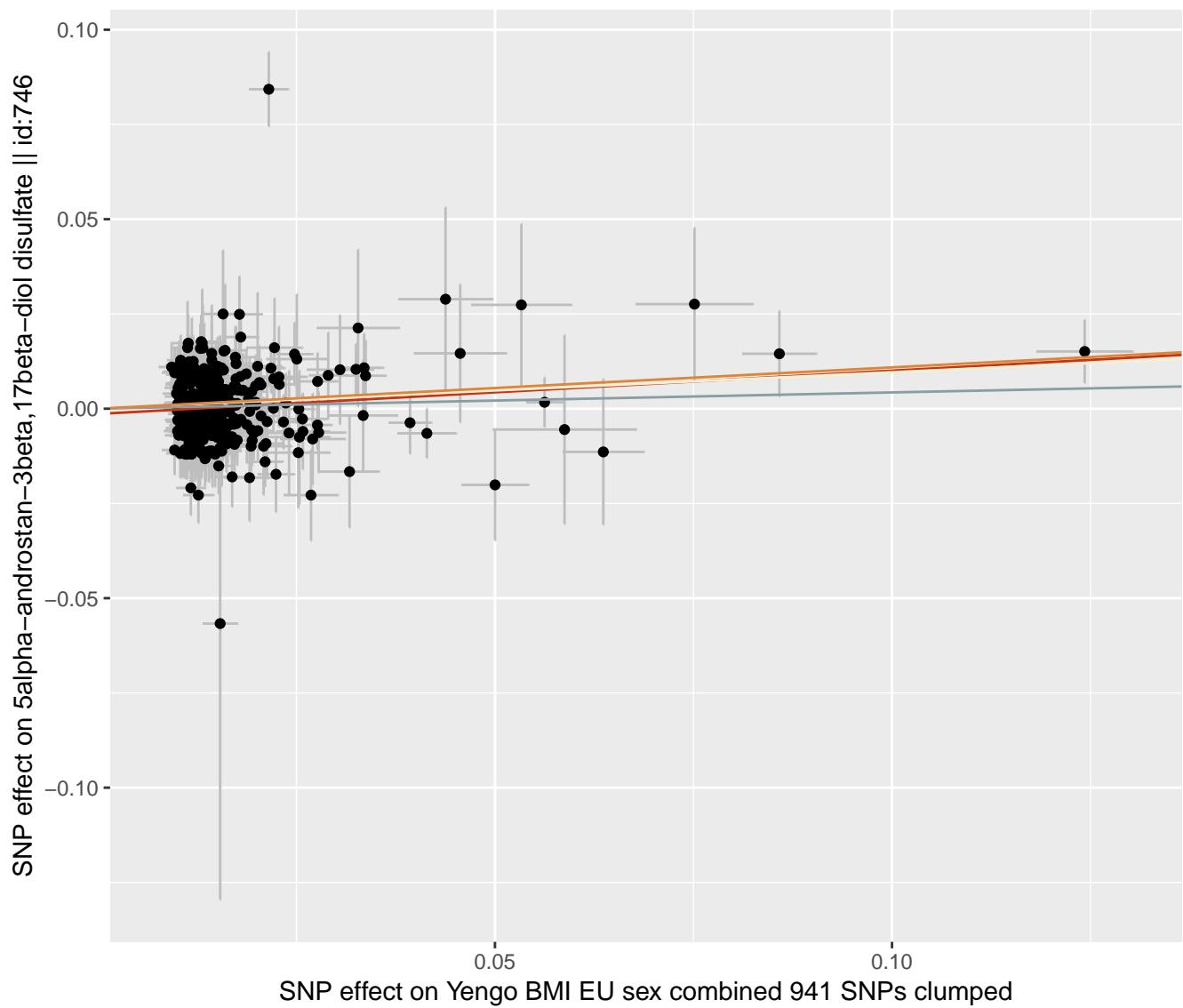
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

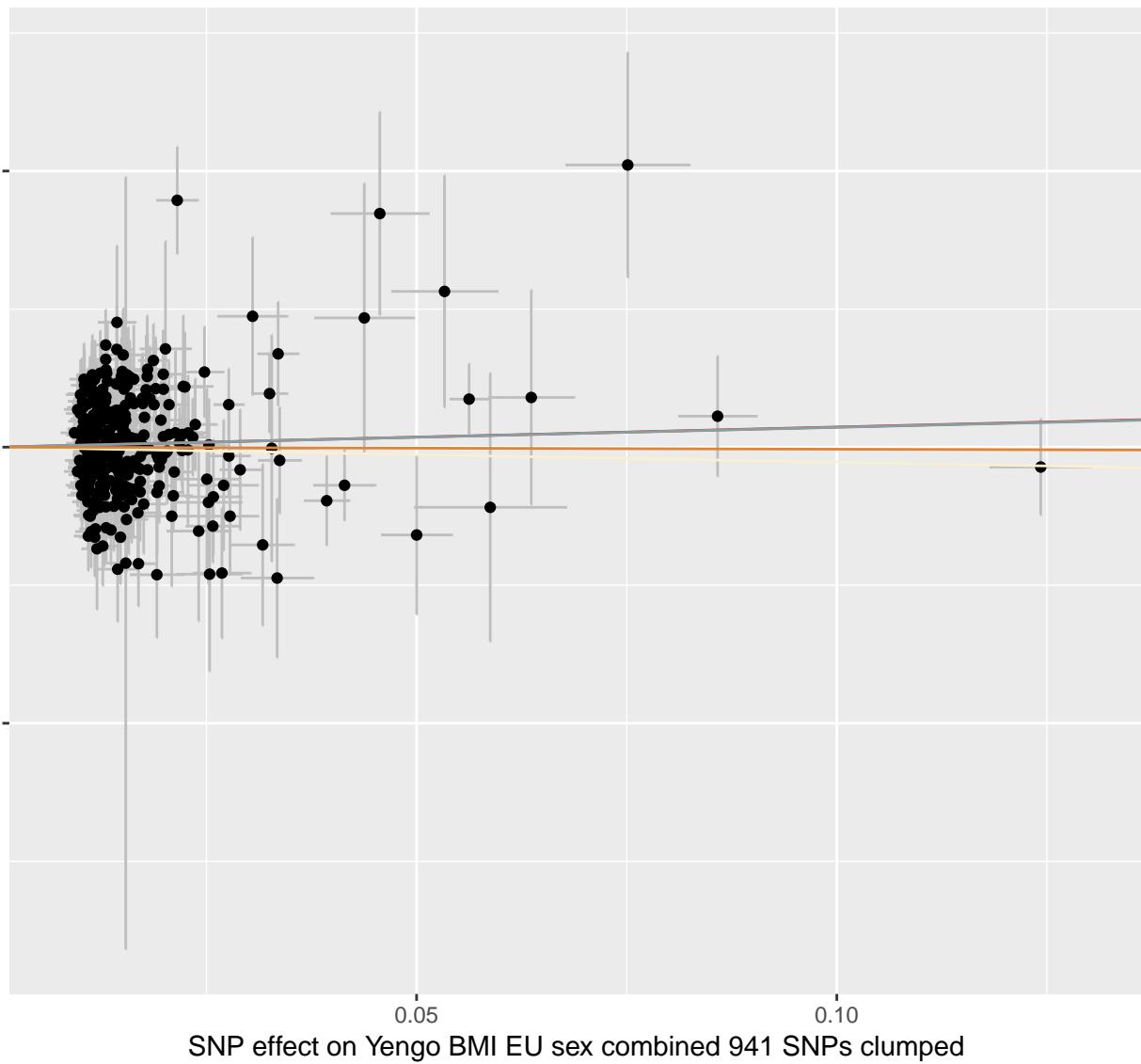


Weighted median



Weighted mode

SNP effect on 4-androsten-3beta,17beta-diol sulfate 1\* || id:747



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

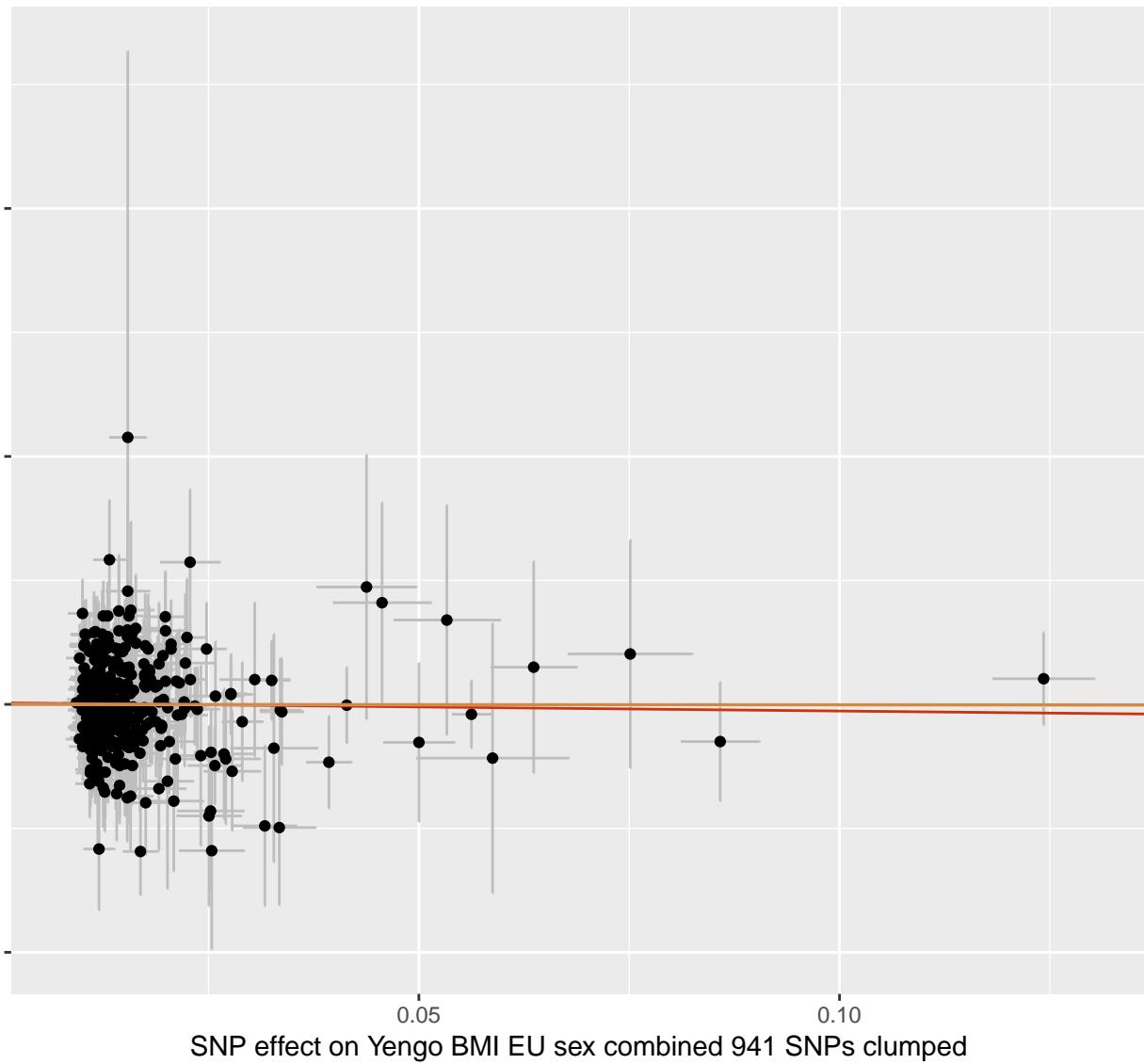


Weighted median



Weighted mode

SNP effect on 4-androsten-3beta,17beta-diol disulfate 2\* || id:748



## MR Test



Inverse variance weighted (multiplicative random effects)



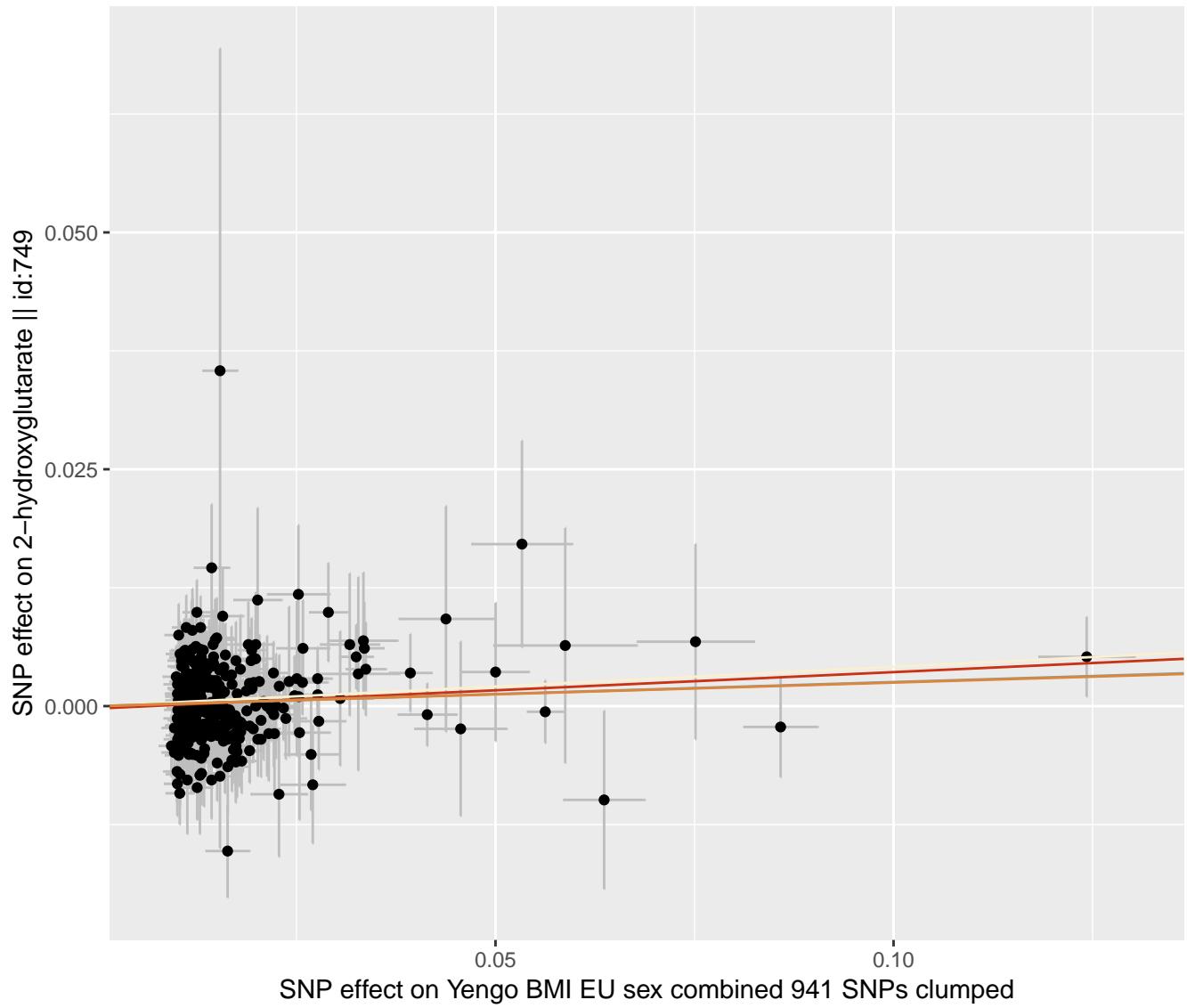
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



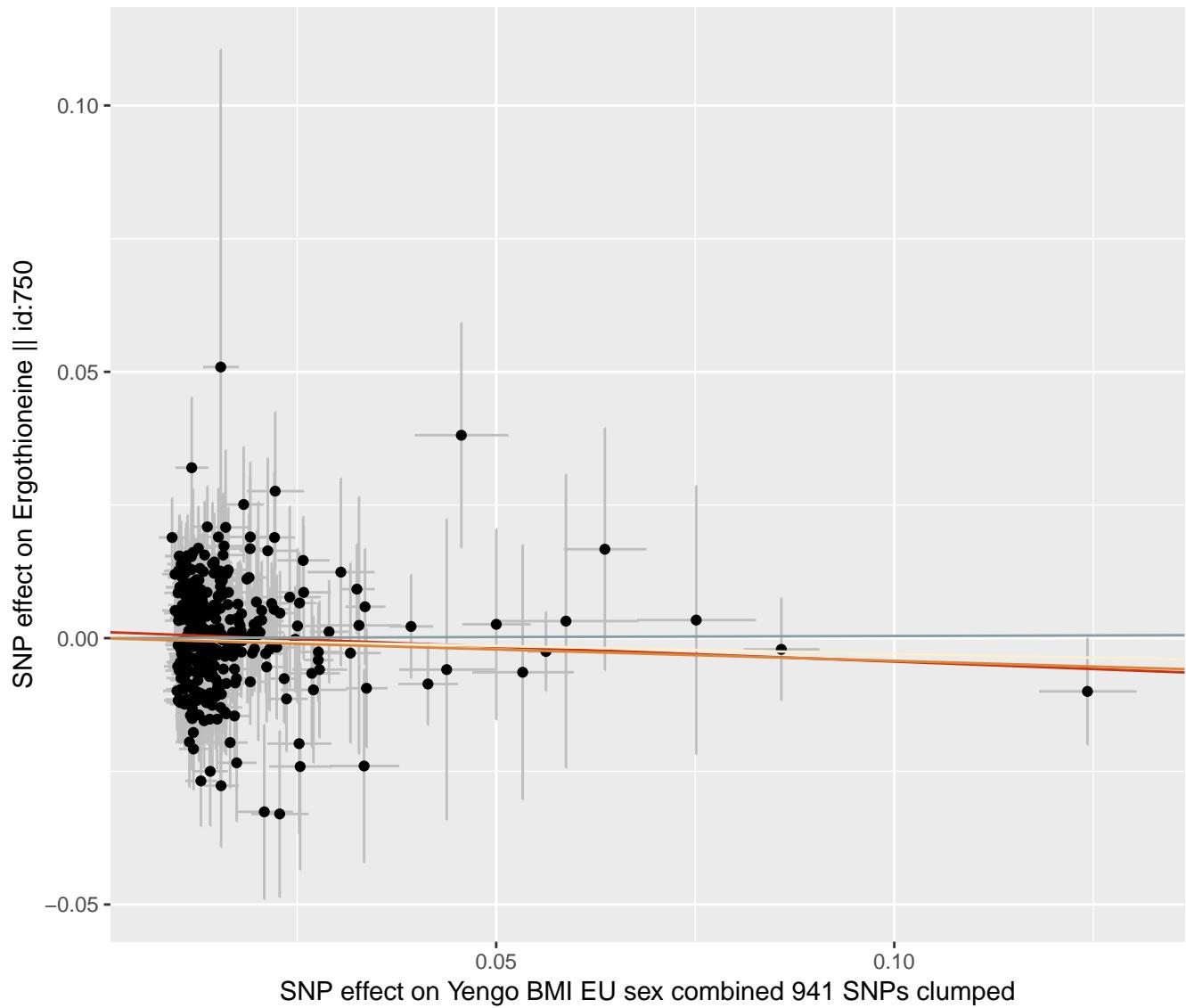
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



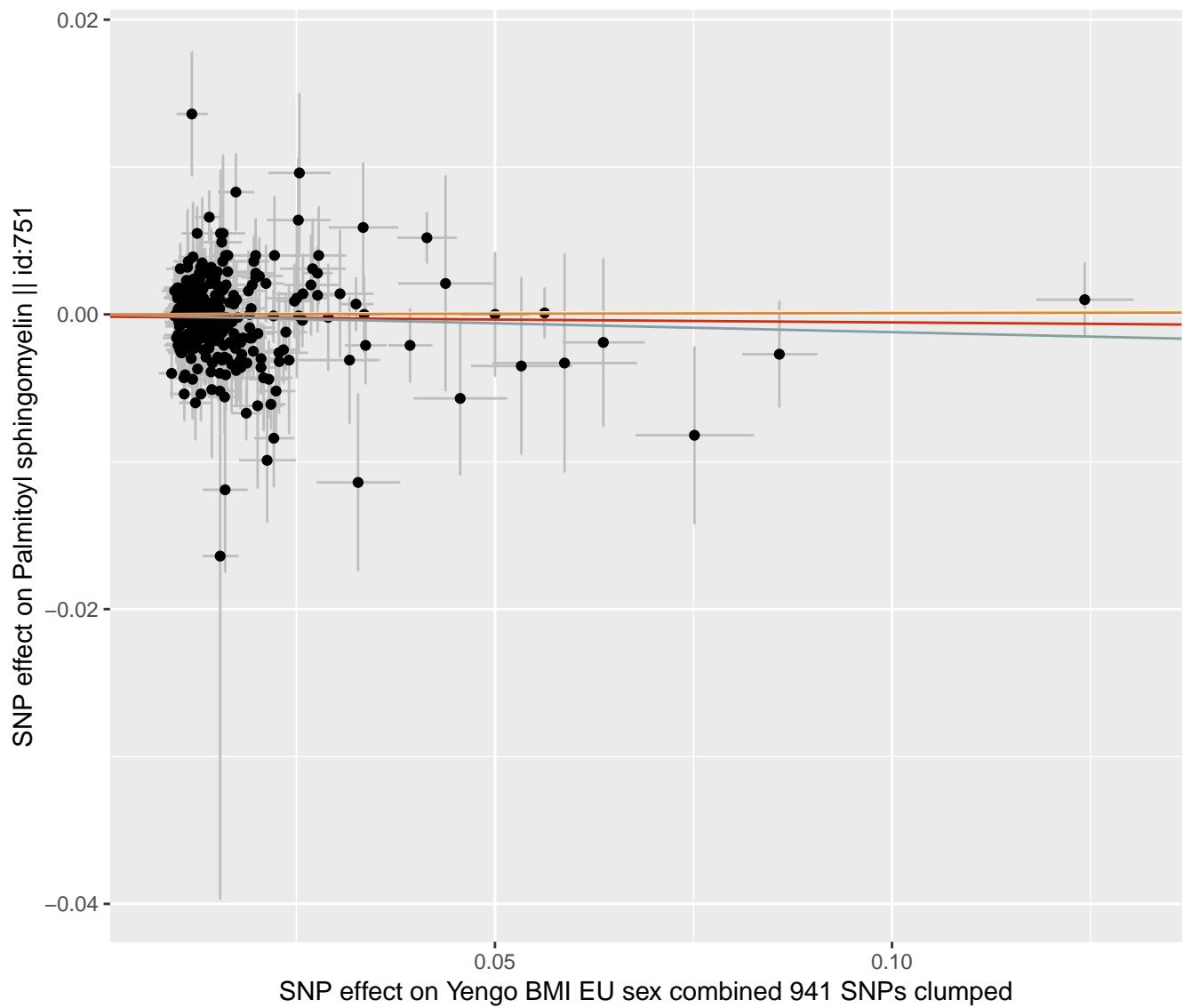
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

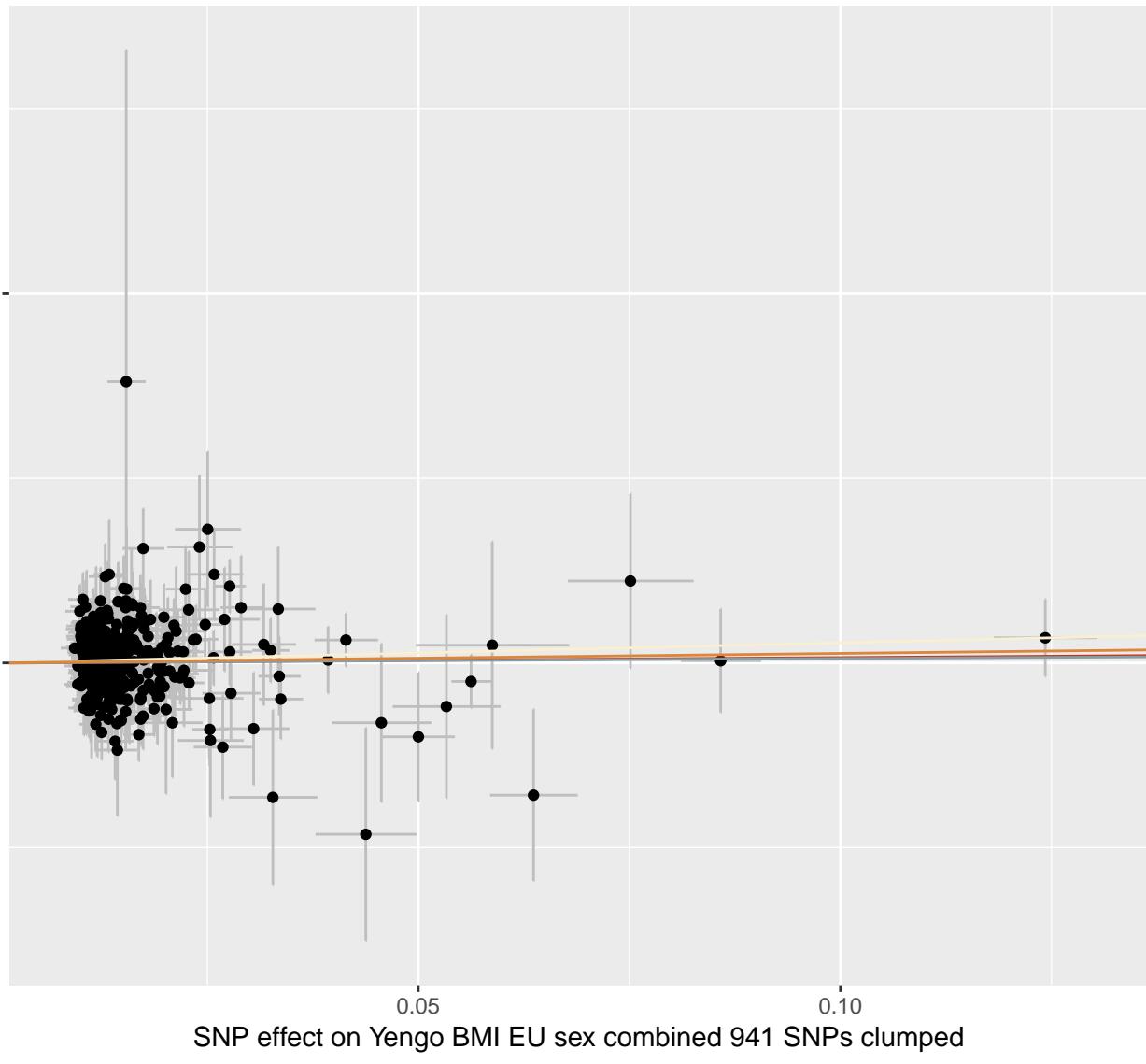


Weighted median



Weighted mode

SNP effect on Phenylalanylphenylalanine || id:752



### MR Test



Inverse variance weighted (multiplicative random effects)



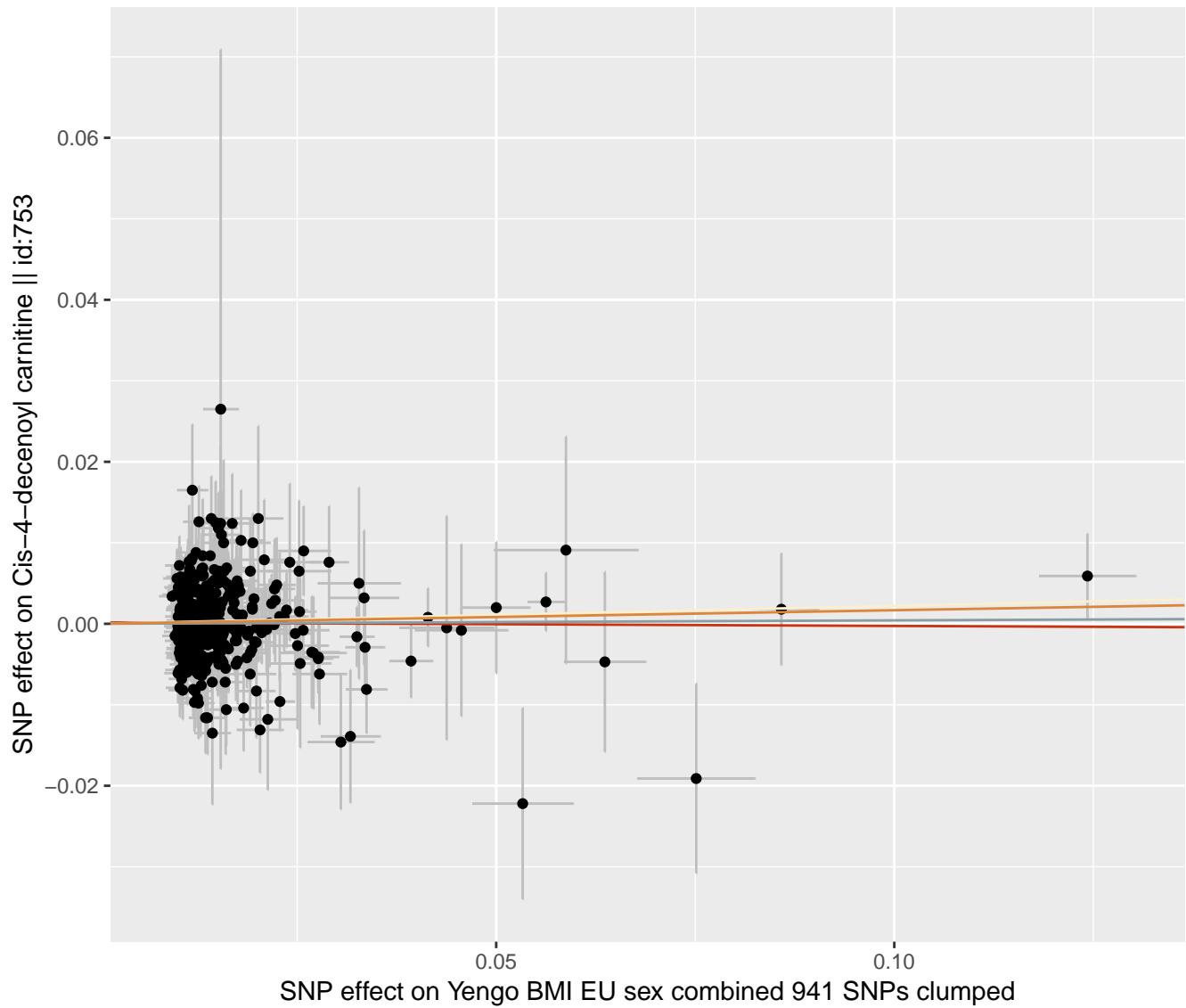
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

