

## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

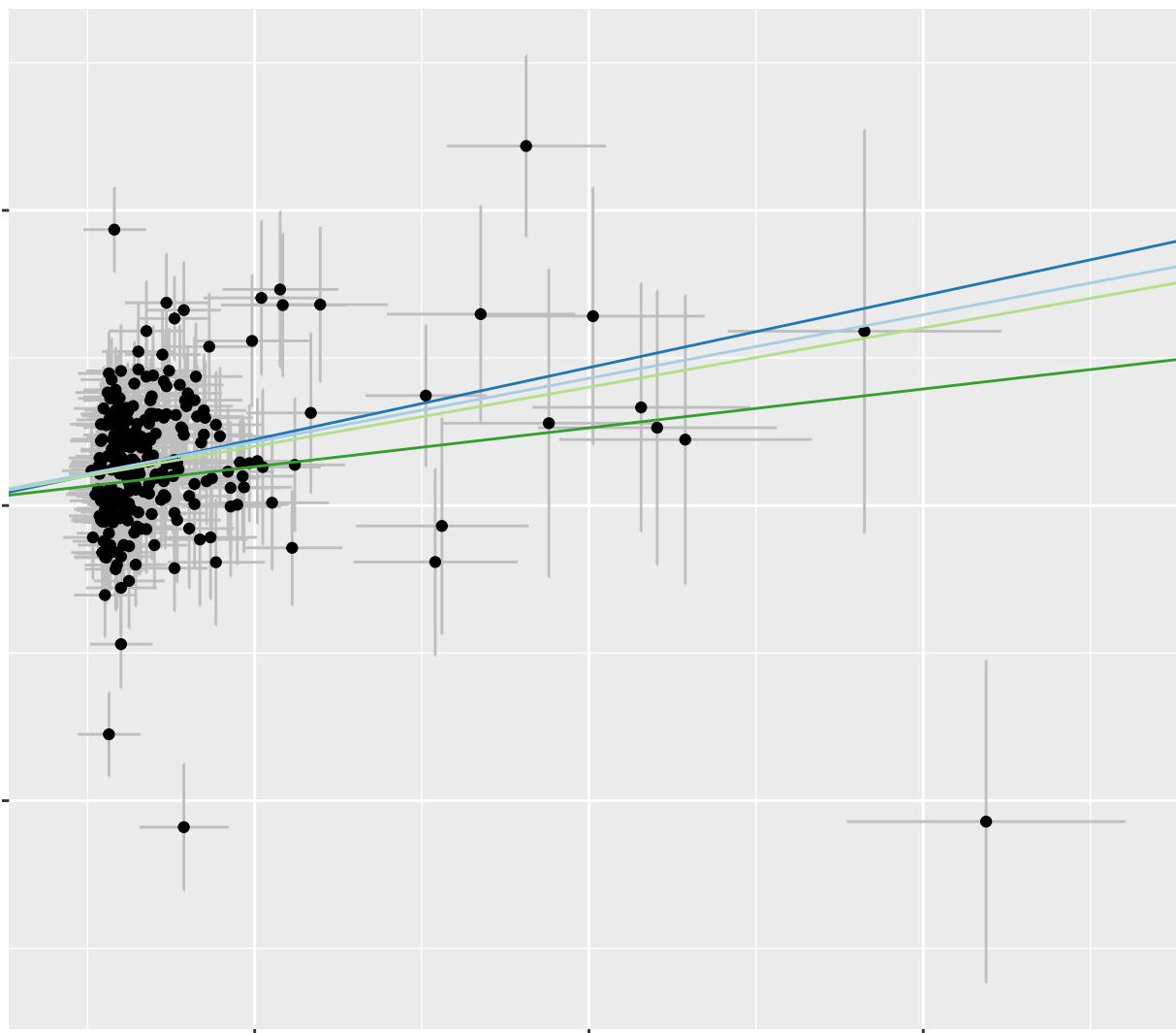
SNP effect on MUFA\_pct\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

0.050

0.075

SNP effect on BMI



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on S\_HDL\_PL\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

0.05

0.01

-0.01

-0.05

-0.10

### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on SFA\_pct\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

0.025

0.000

-0.025

-0.050

0.050

0.075

# MR Test



Inverse variance weighted (multiplicative random effects)



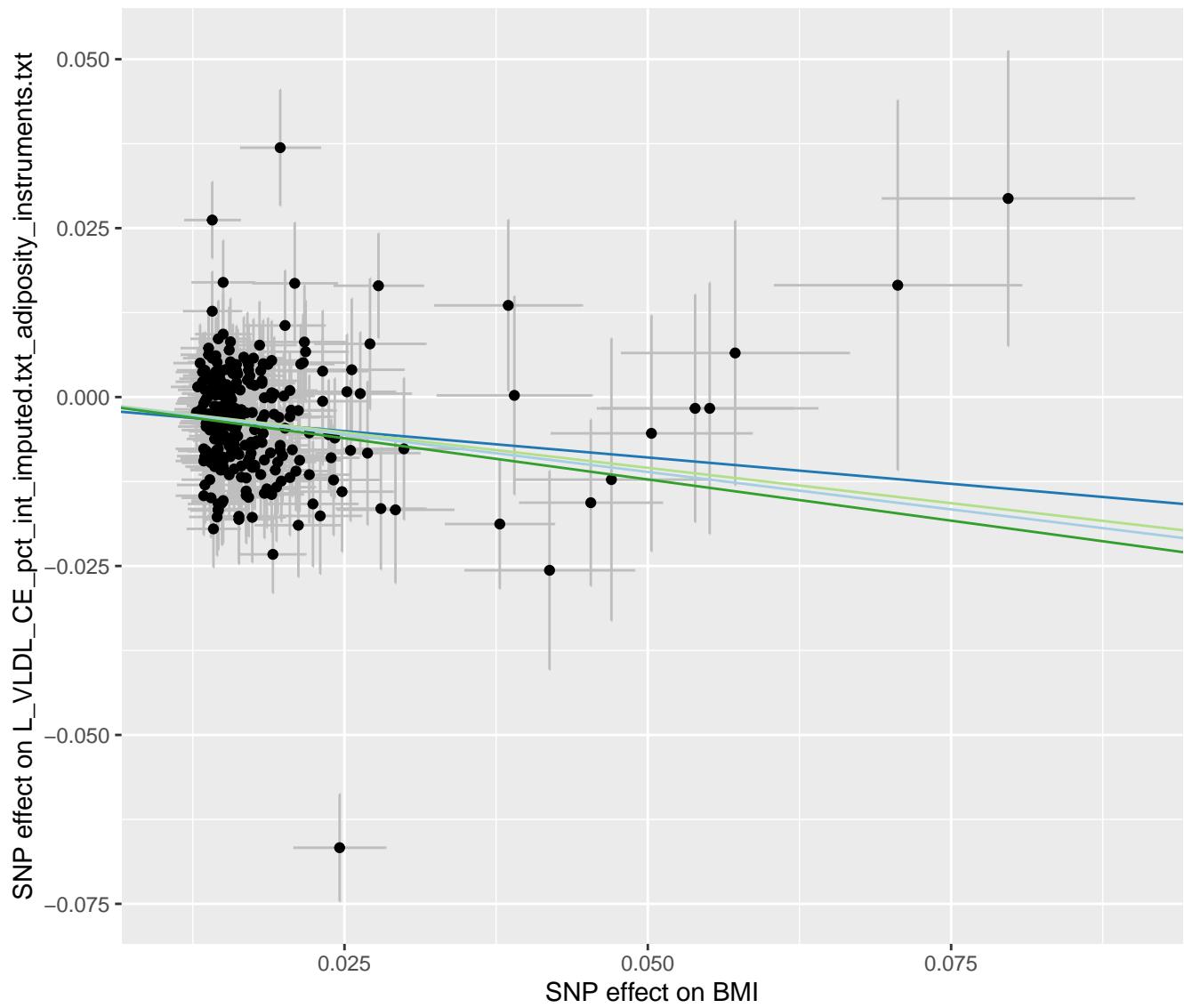
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

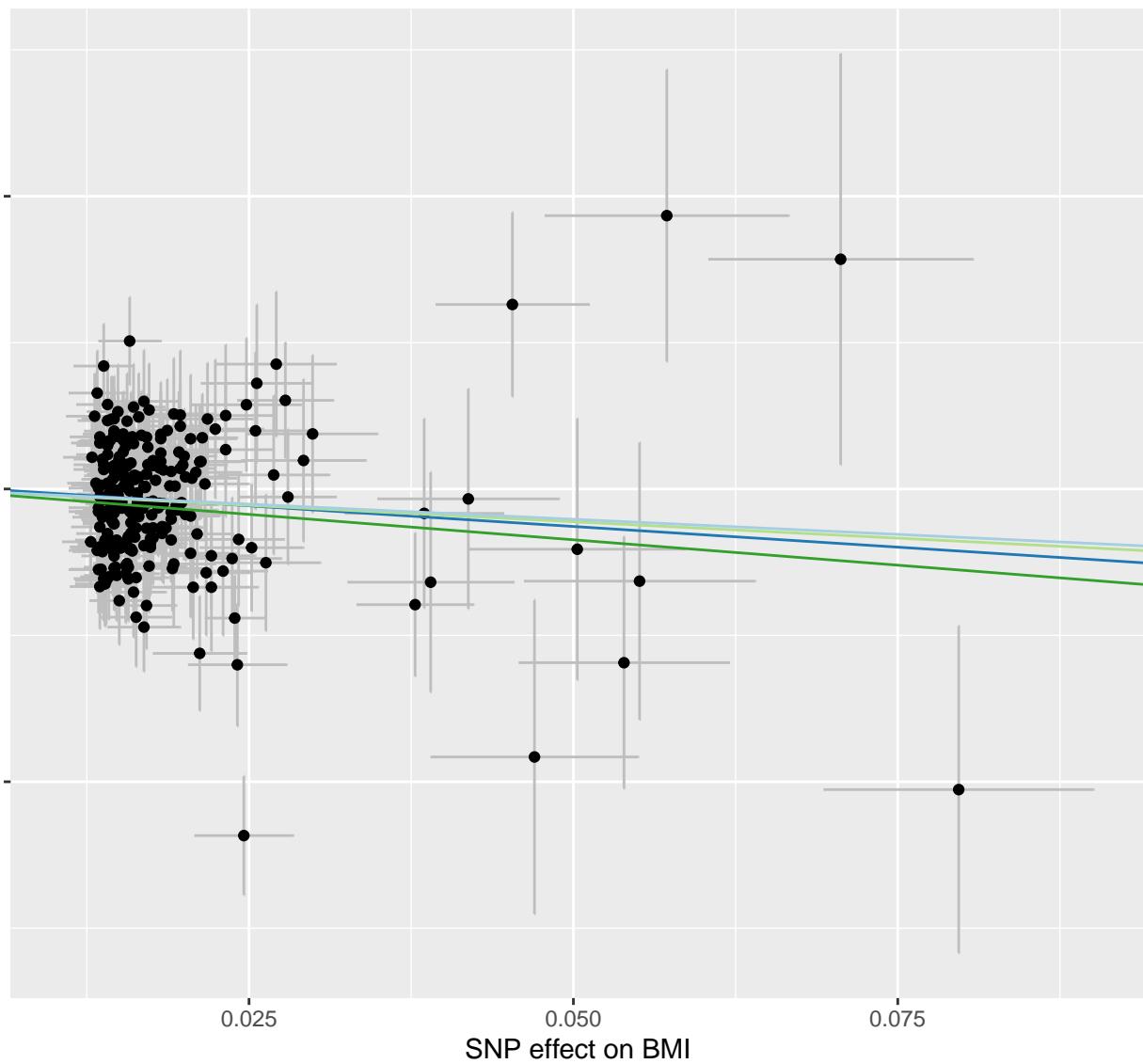


Weighted median



Weighted mode

SNP effect on XXL\_VLDL\_CE\_pct\_int\_imputed.txt\_adiposity\_instruments.txt



## MR Test



Inverse variance weighted (multiplicative random effects)



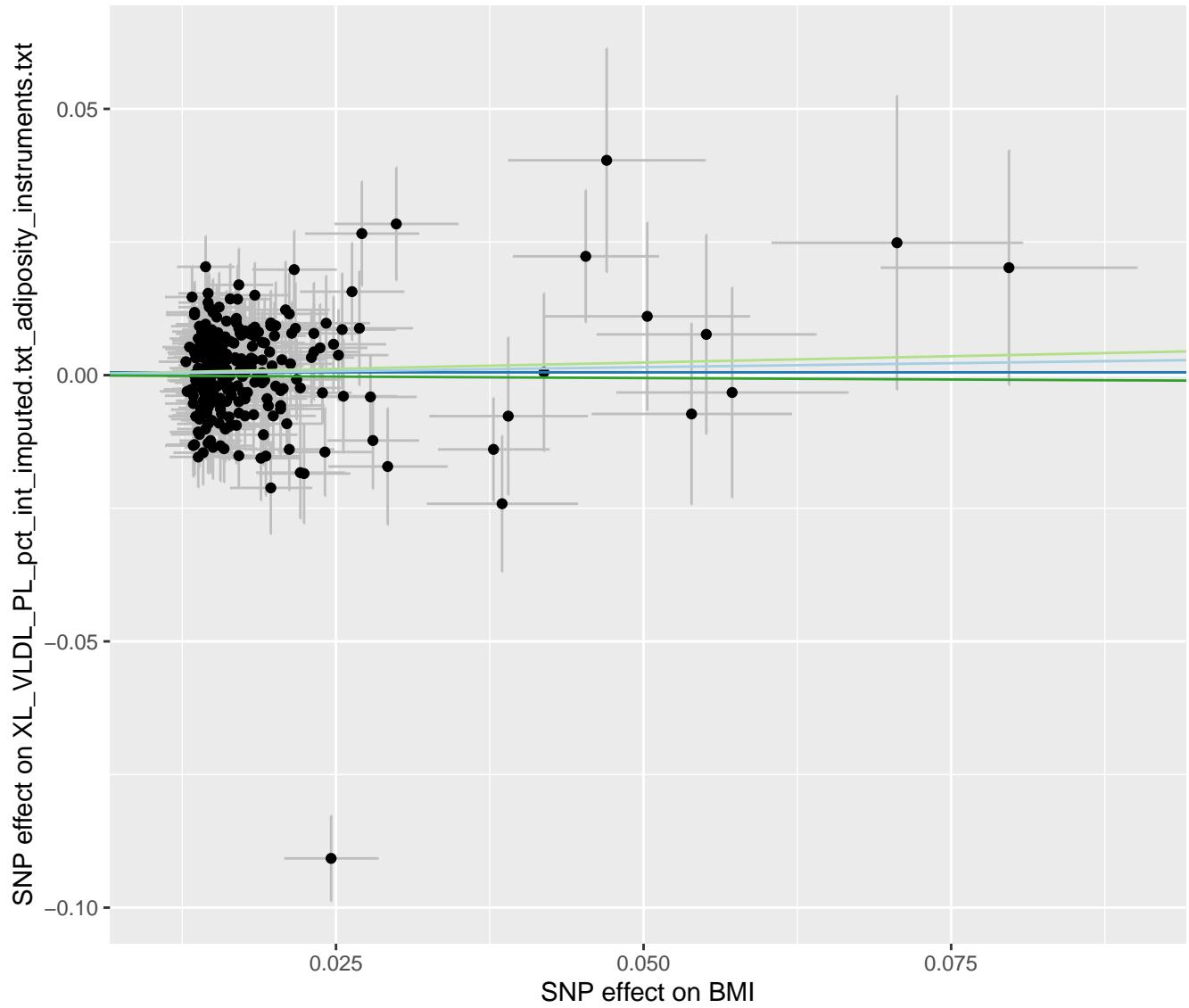
MR Egger



Weighted median



Weighted mode



MR Test

A blue line that slopes upwards from left to right.

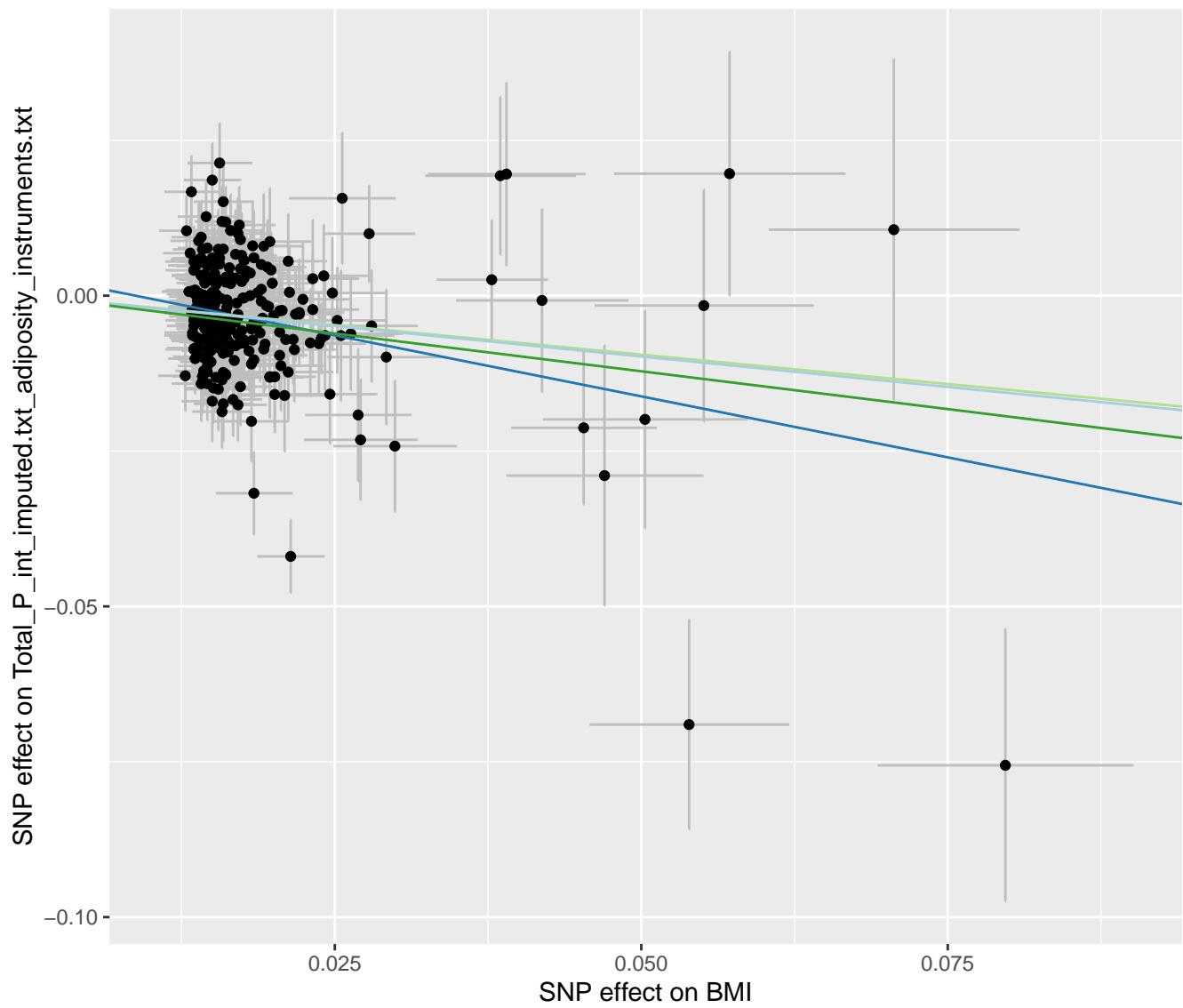
Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



MR Test

A blue line that slopes upwards from left to right, positioned in the bottom right corner of the page.

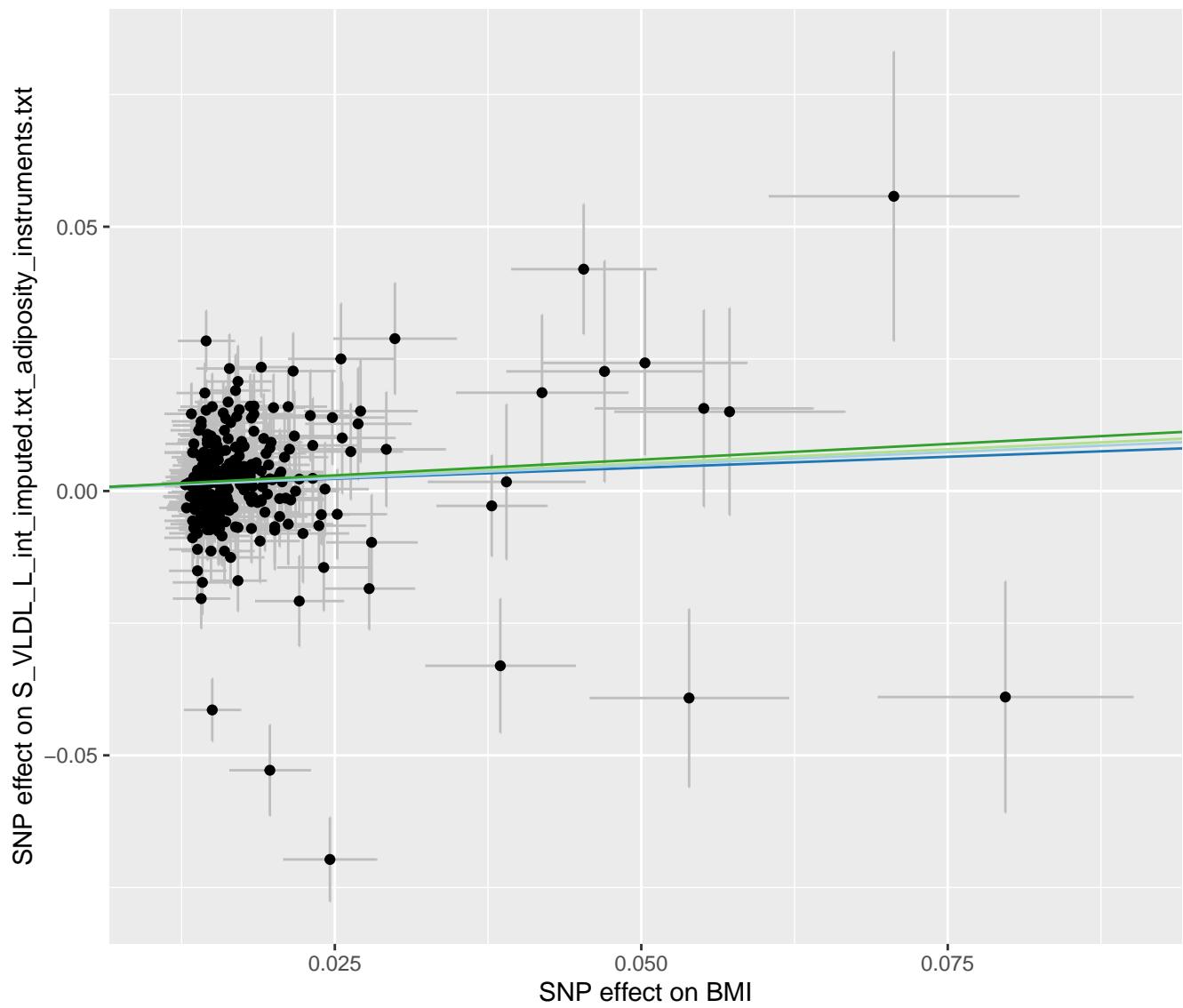
Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



## MR Test

A blue line that slopes upwards from left to right.

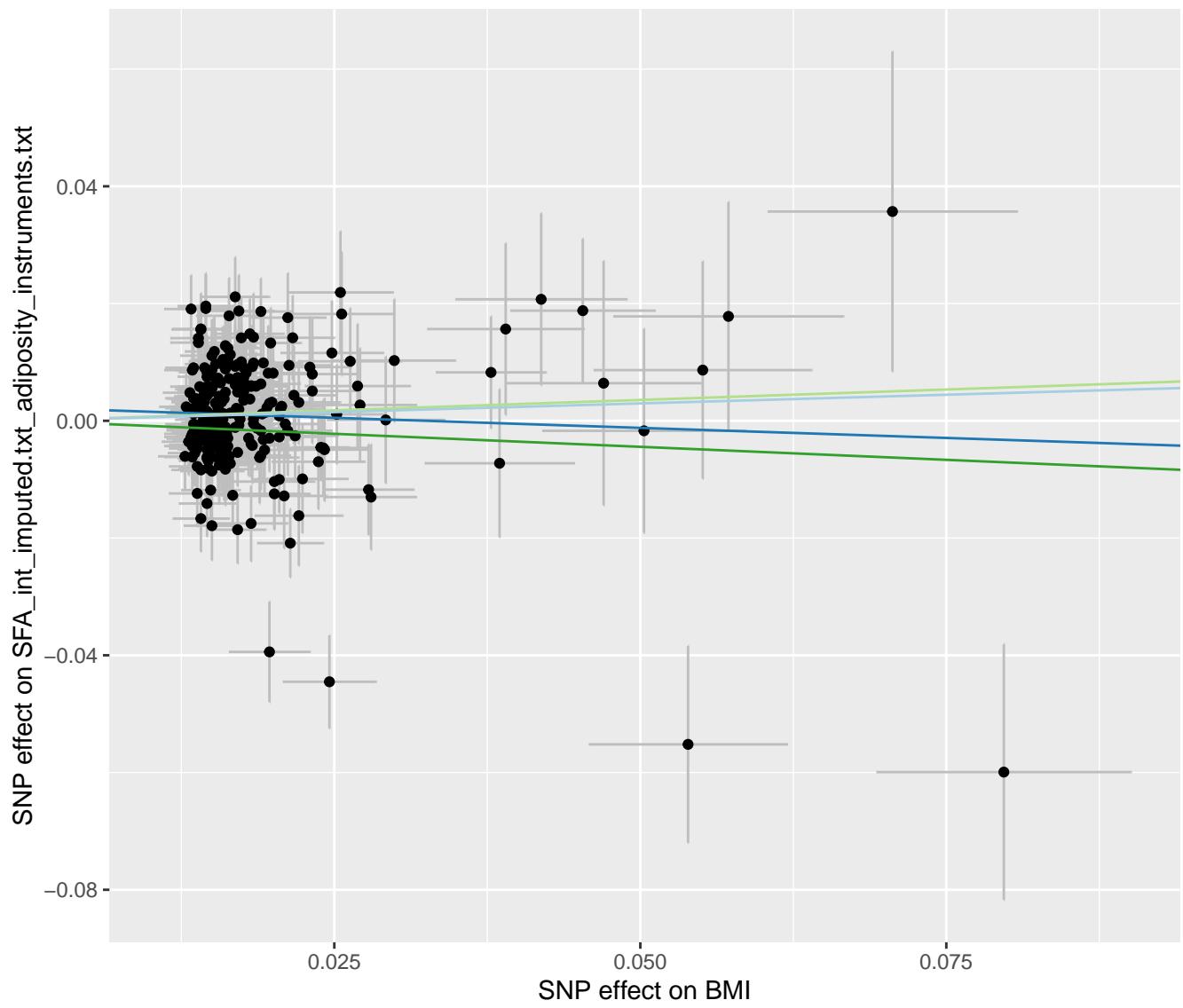
### Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



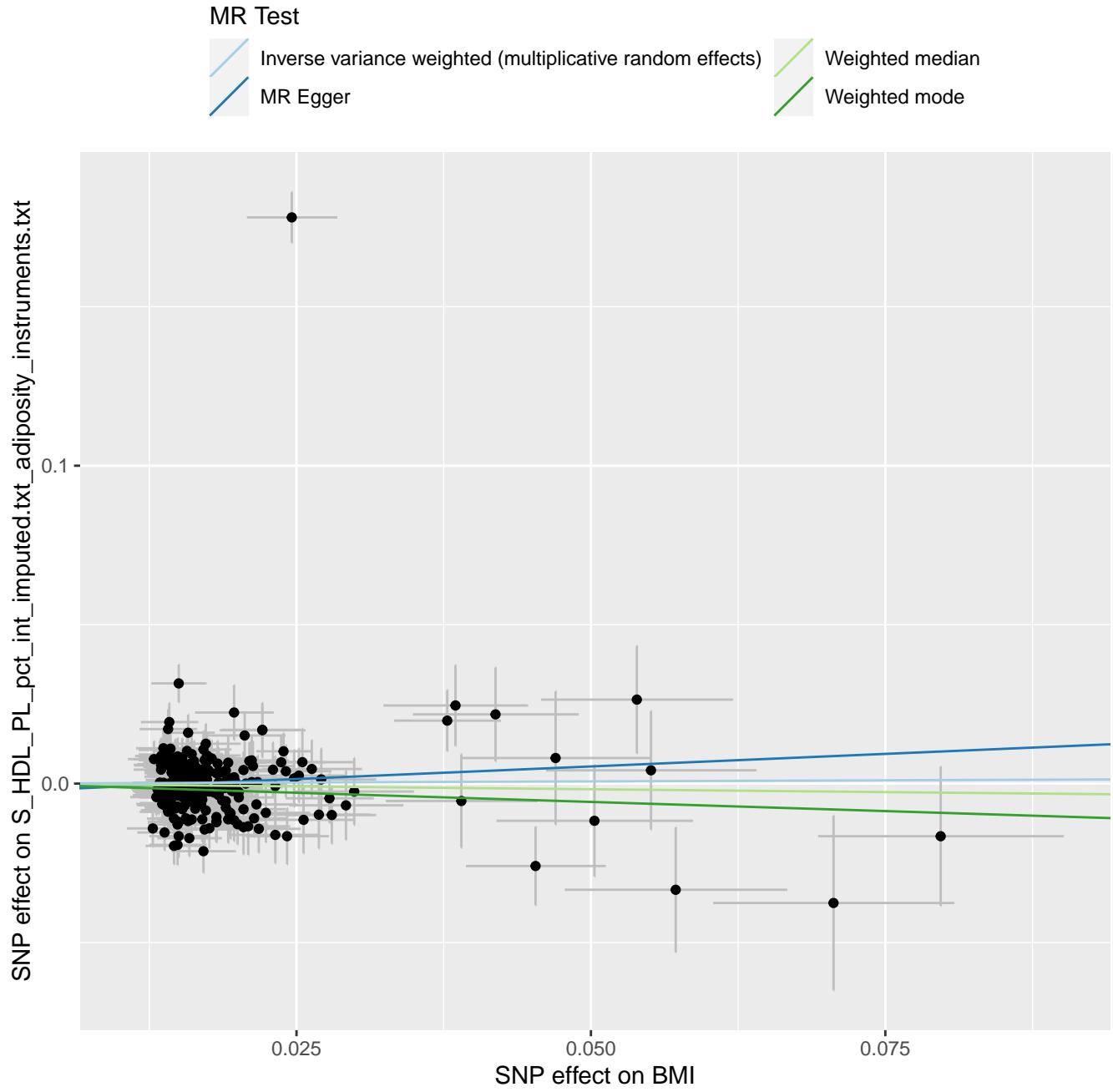
MR Egger



Weighted median



Weighted mode



MR Test

10

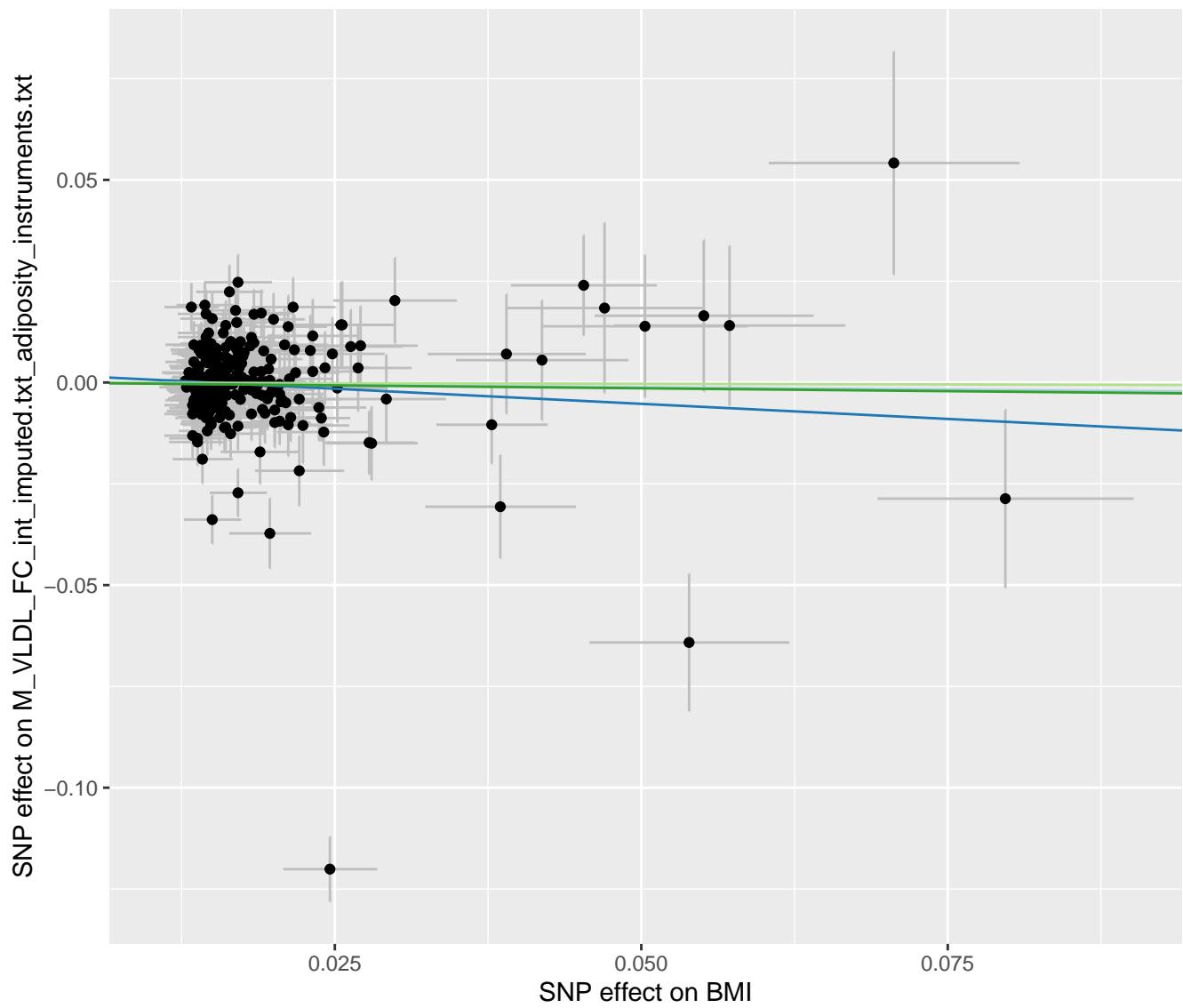
### Inverse variance weighted (multiplicative random effects)

MR Egger

10 of 10

## Weighted median

Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

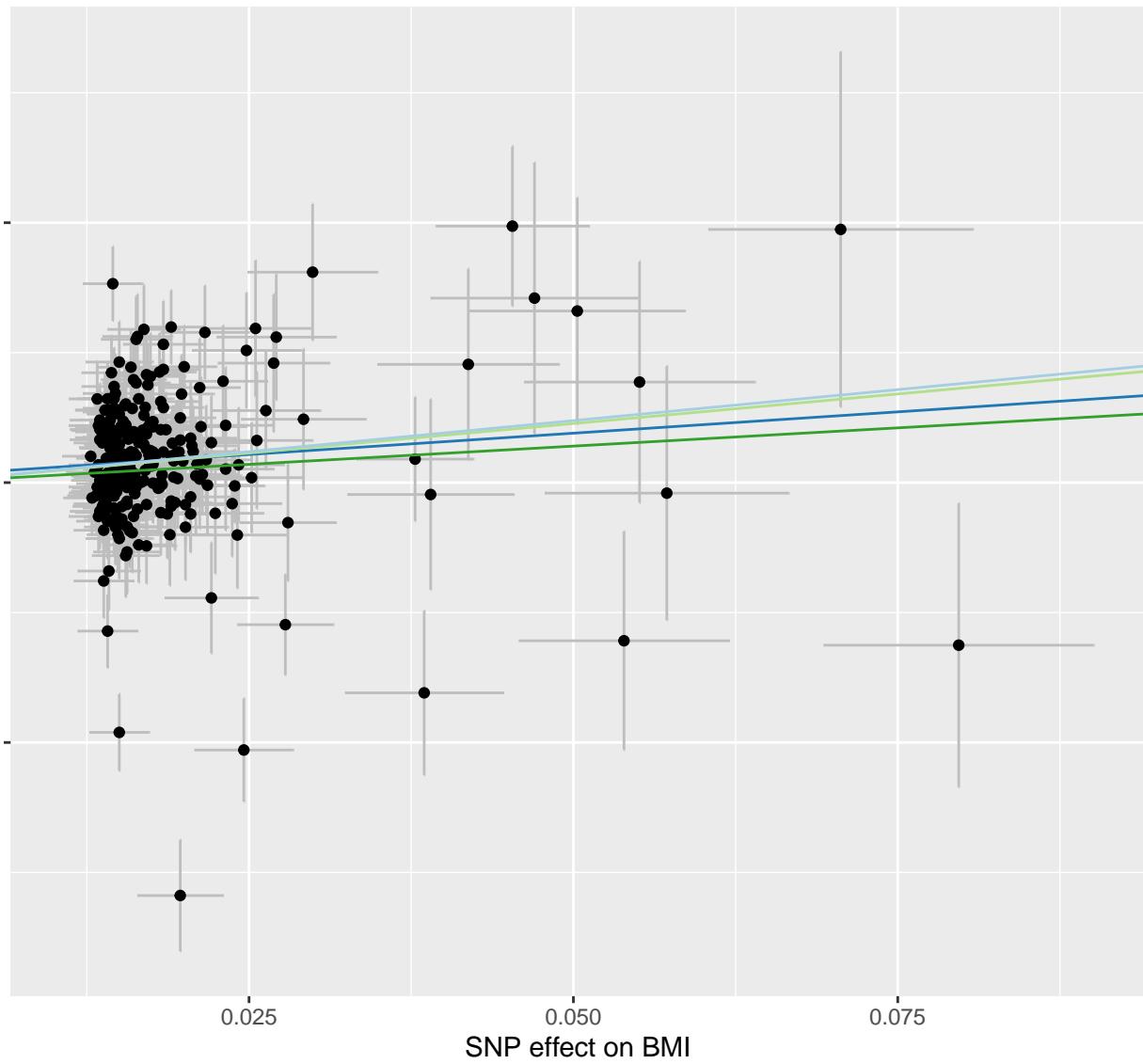


Weighted median



Weighted mode

SNP effect on XL\_VLDL\_FC\_int\_imputed.txt\_adiposity\_instruments.txt



MR Test

10

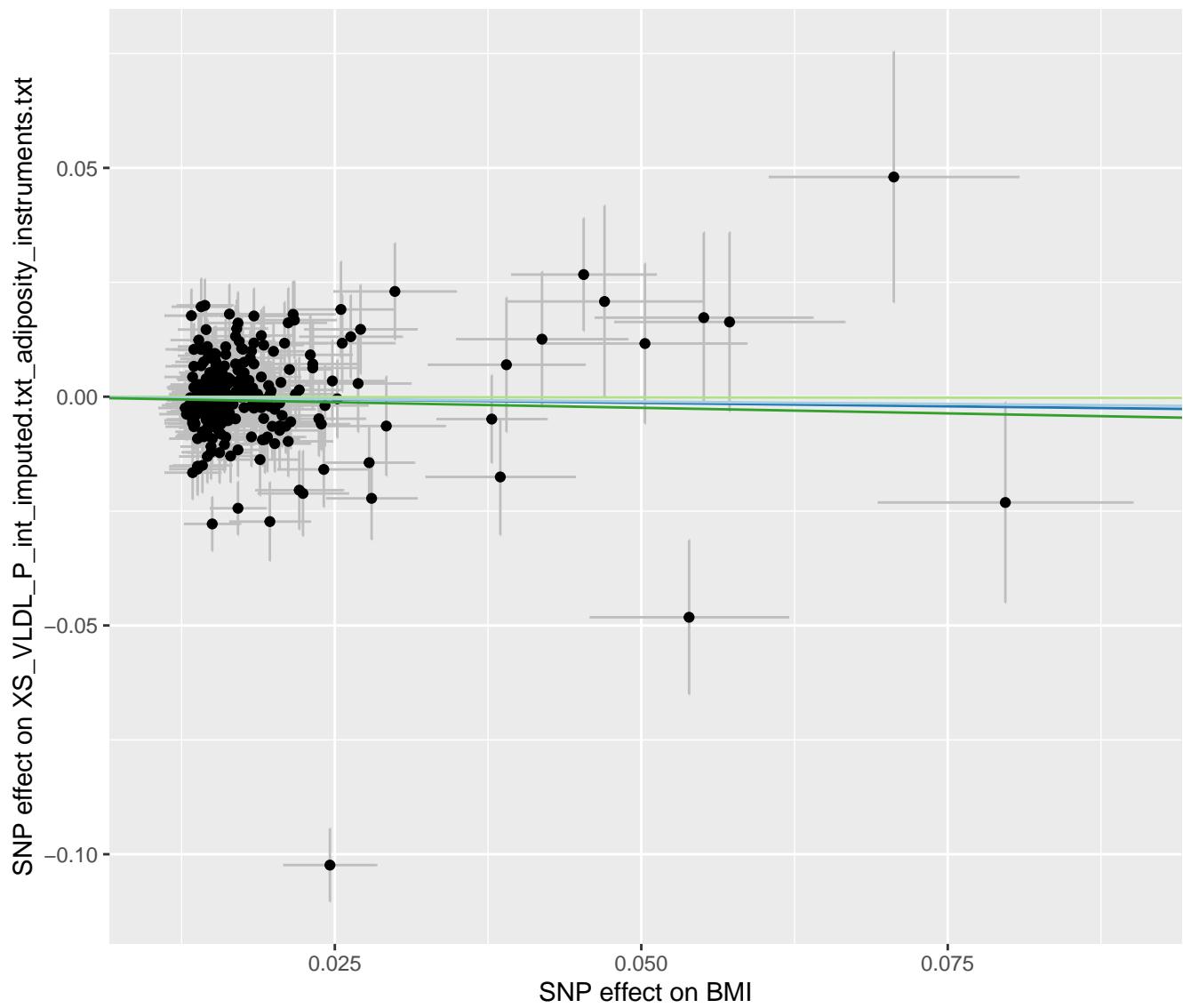
### Inverse variance weighted (multiplicative random effects)

MR Egger

10 of 10

## Weighted median

## Weighted mode



## MR Test

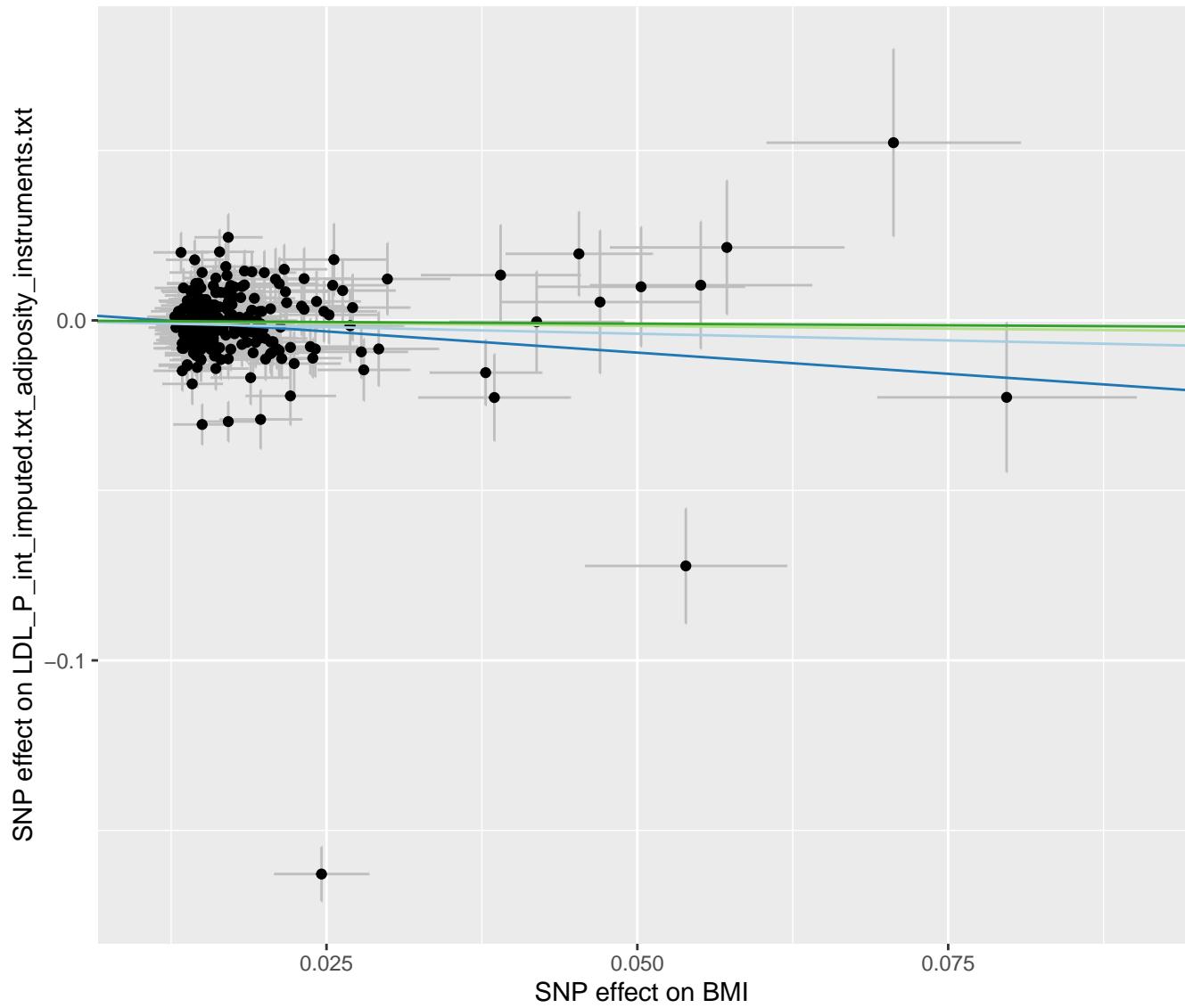
### Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



MR Test

A blue line that slopes upwards from left to right.

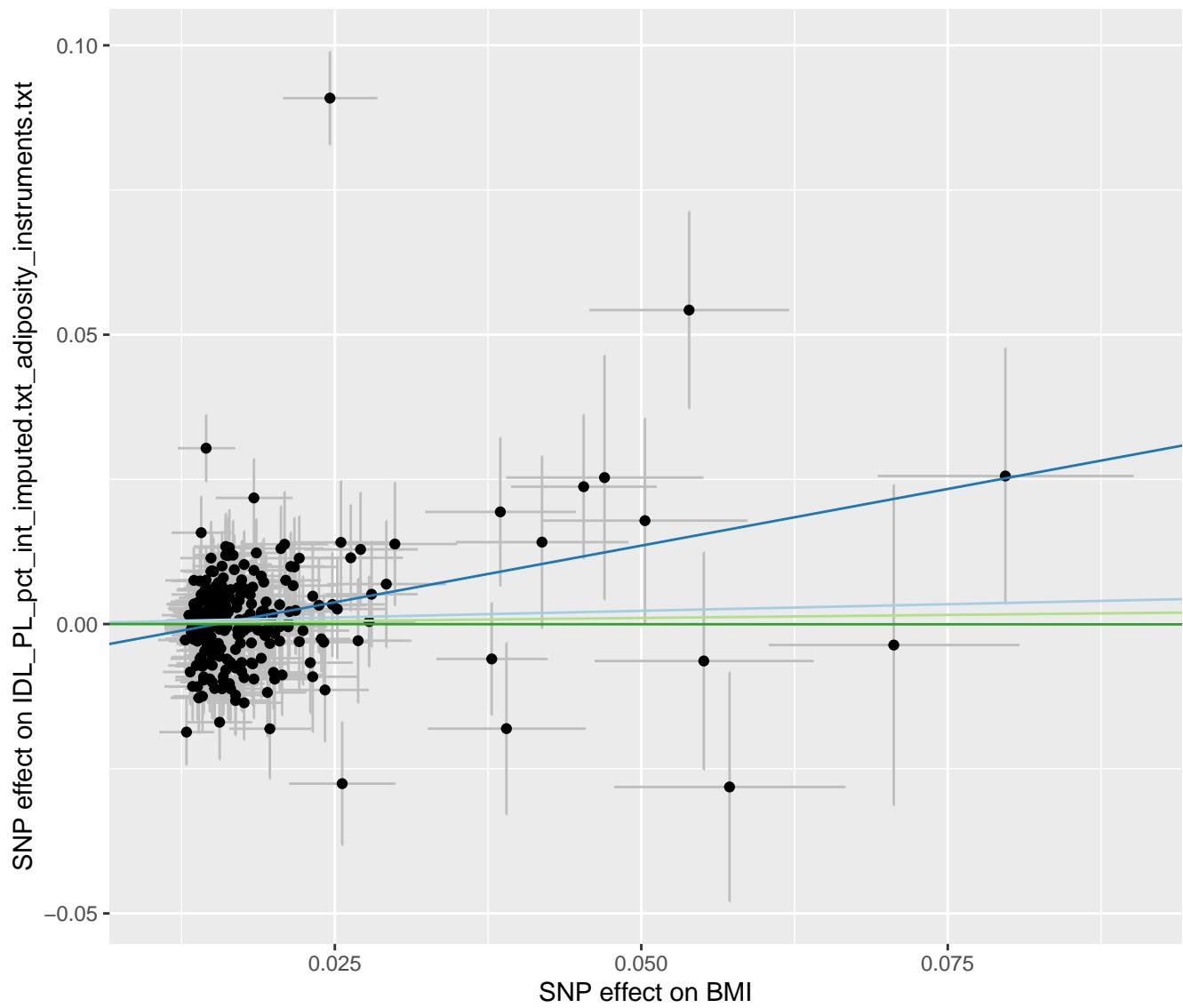
Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on LA\_pct\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

0.075

-0.050

-0.025

0.000

-0.000

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## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on Total\_FA\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

0.050

0.075

0.05

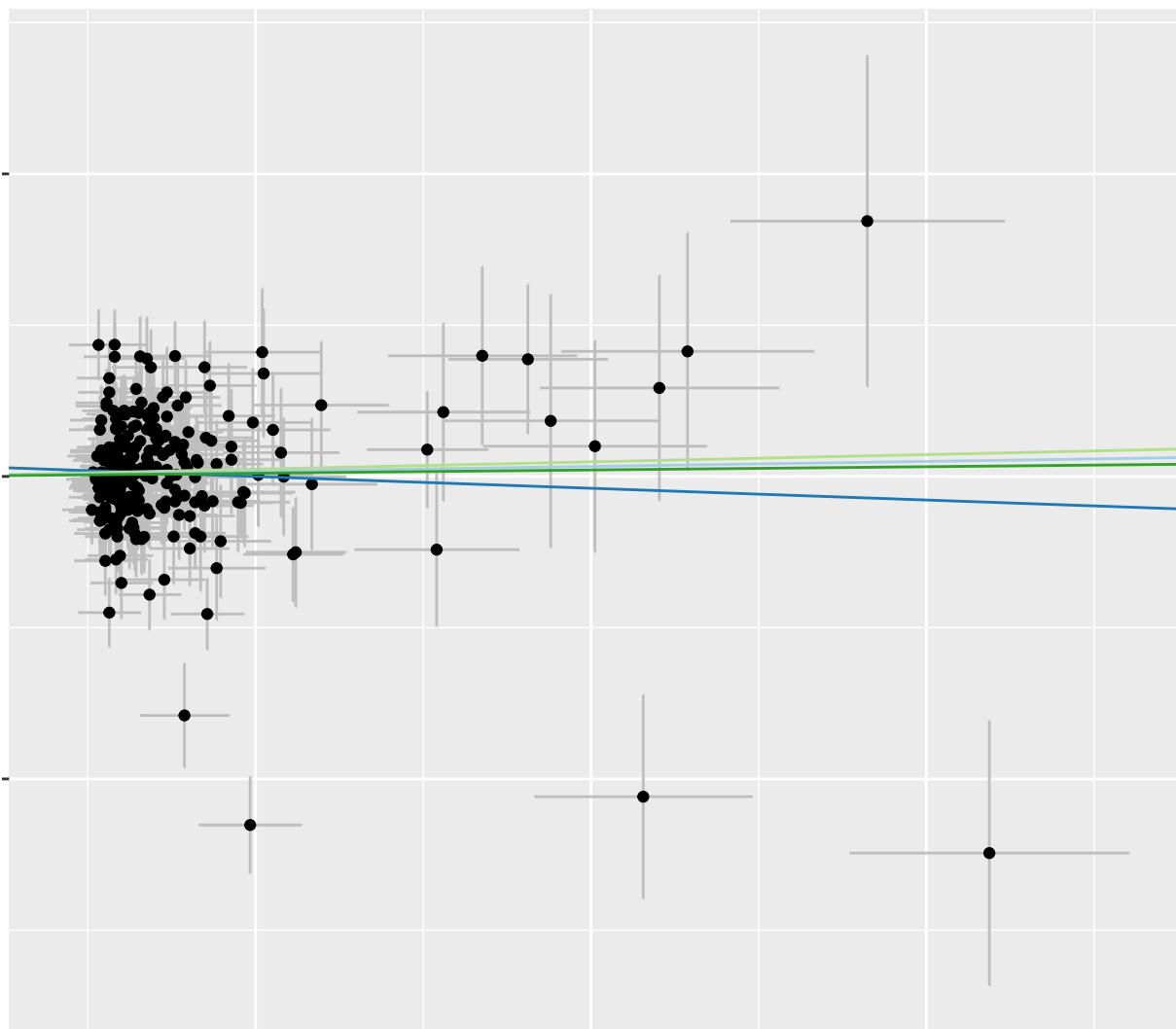
0.00

-0.05

-

-

-



## MR Test



Inverse variance weighted (multiplicative random effects)



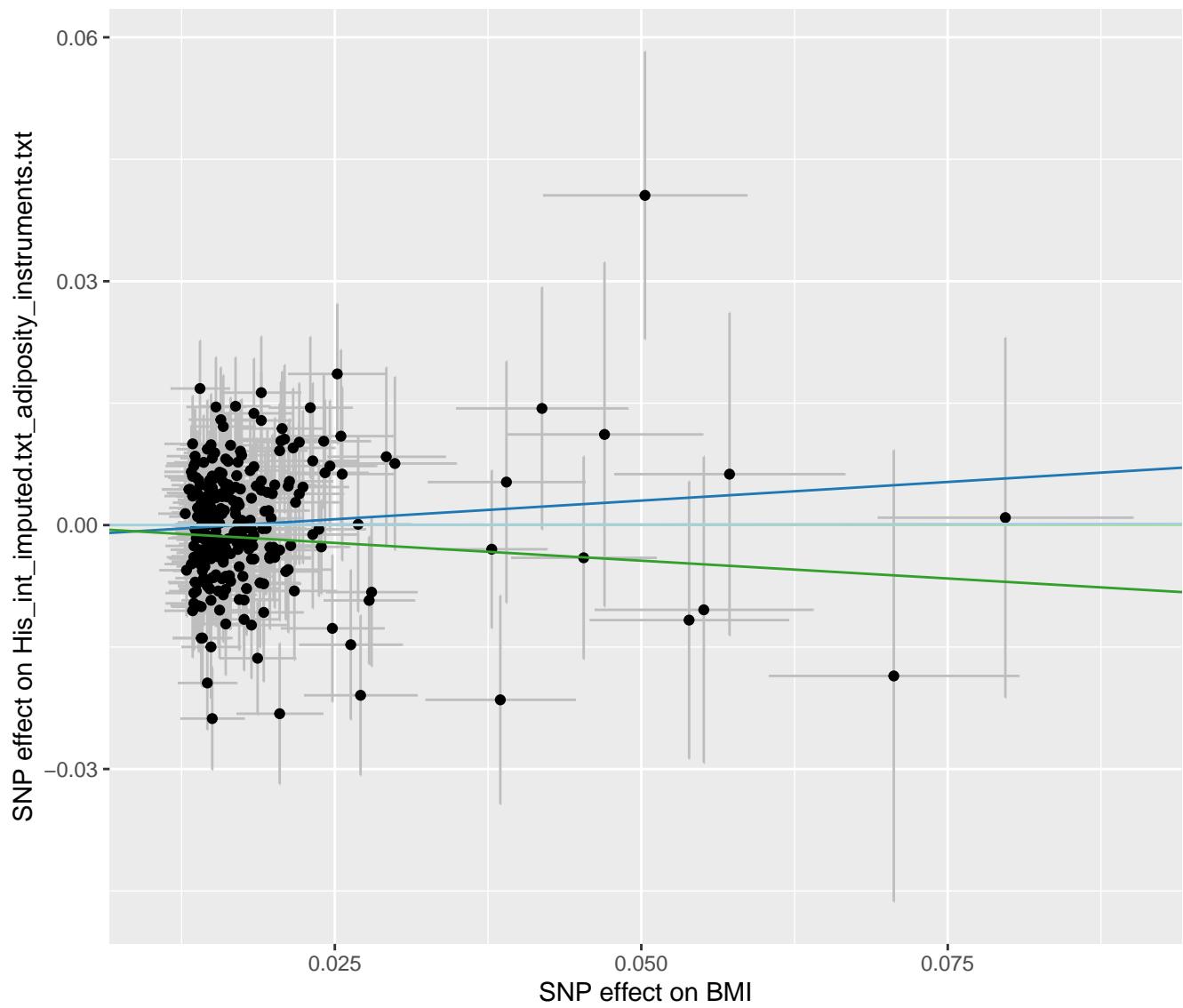
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

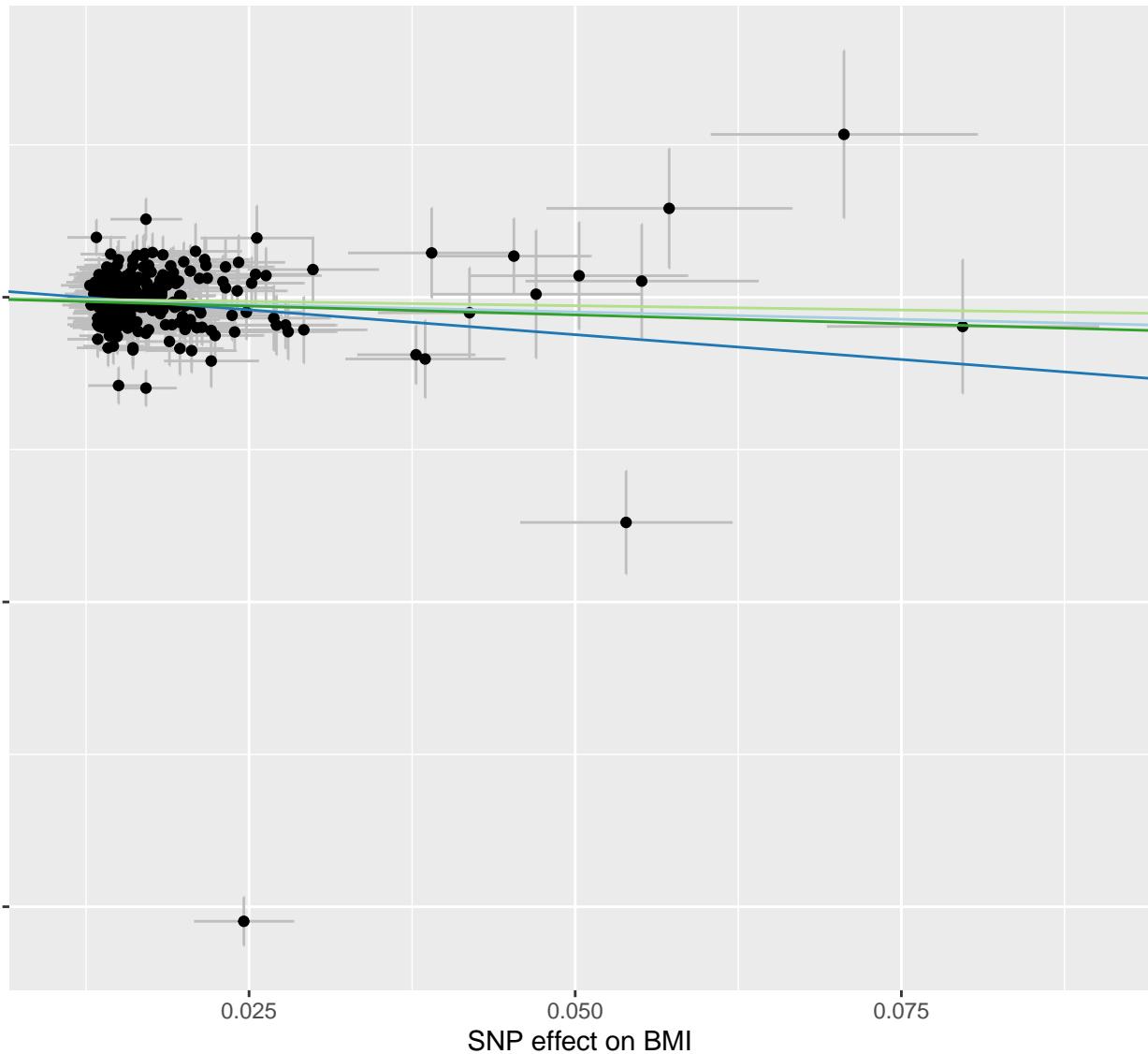


Weighted median



Weighted mode

SNP effect on S\_LDL\_PL\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



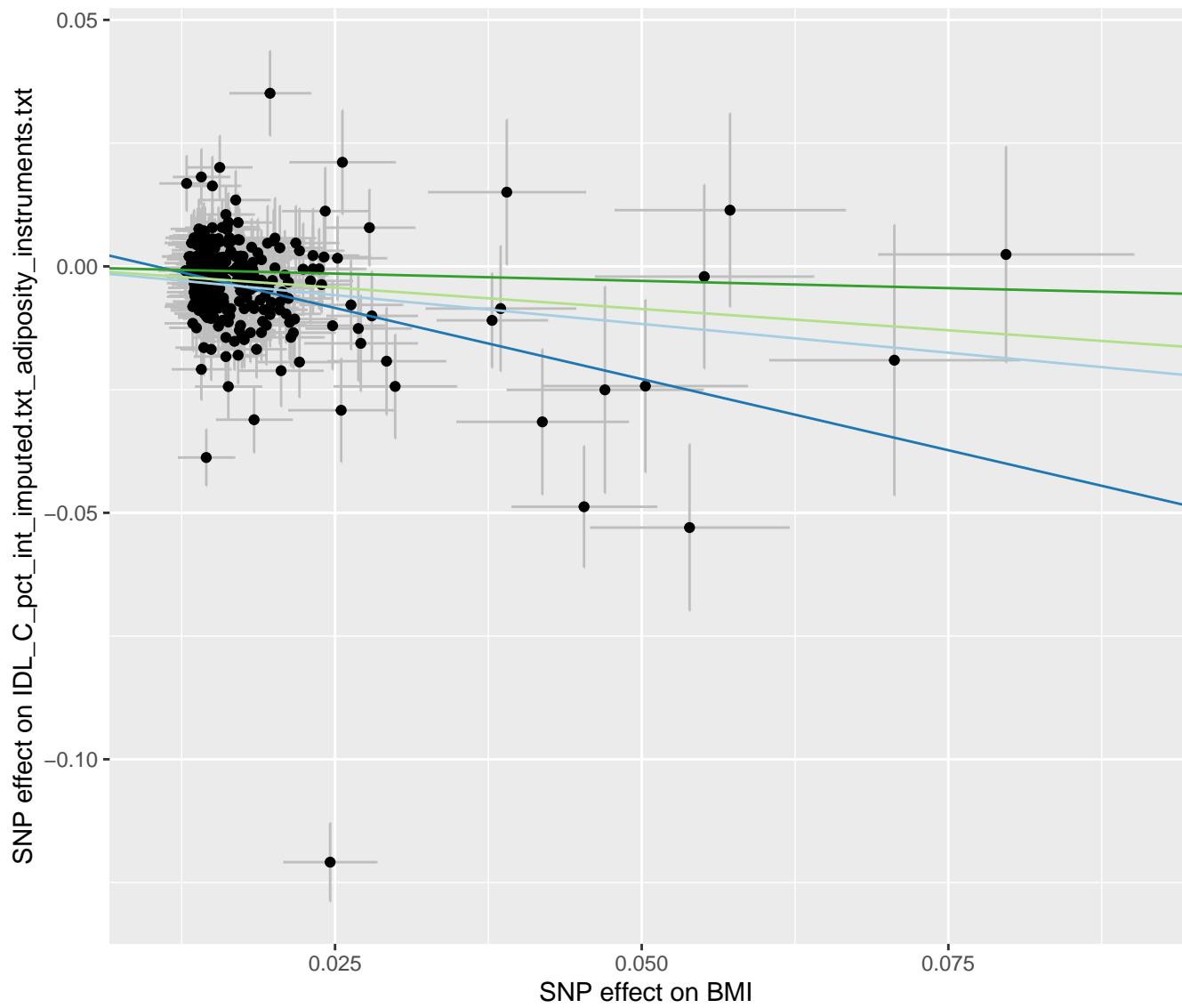
MR Egger



Weighted median



Weighted mode



MR Test

A blue line that slopes upwards from left to right.

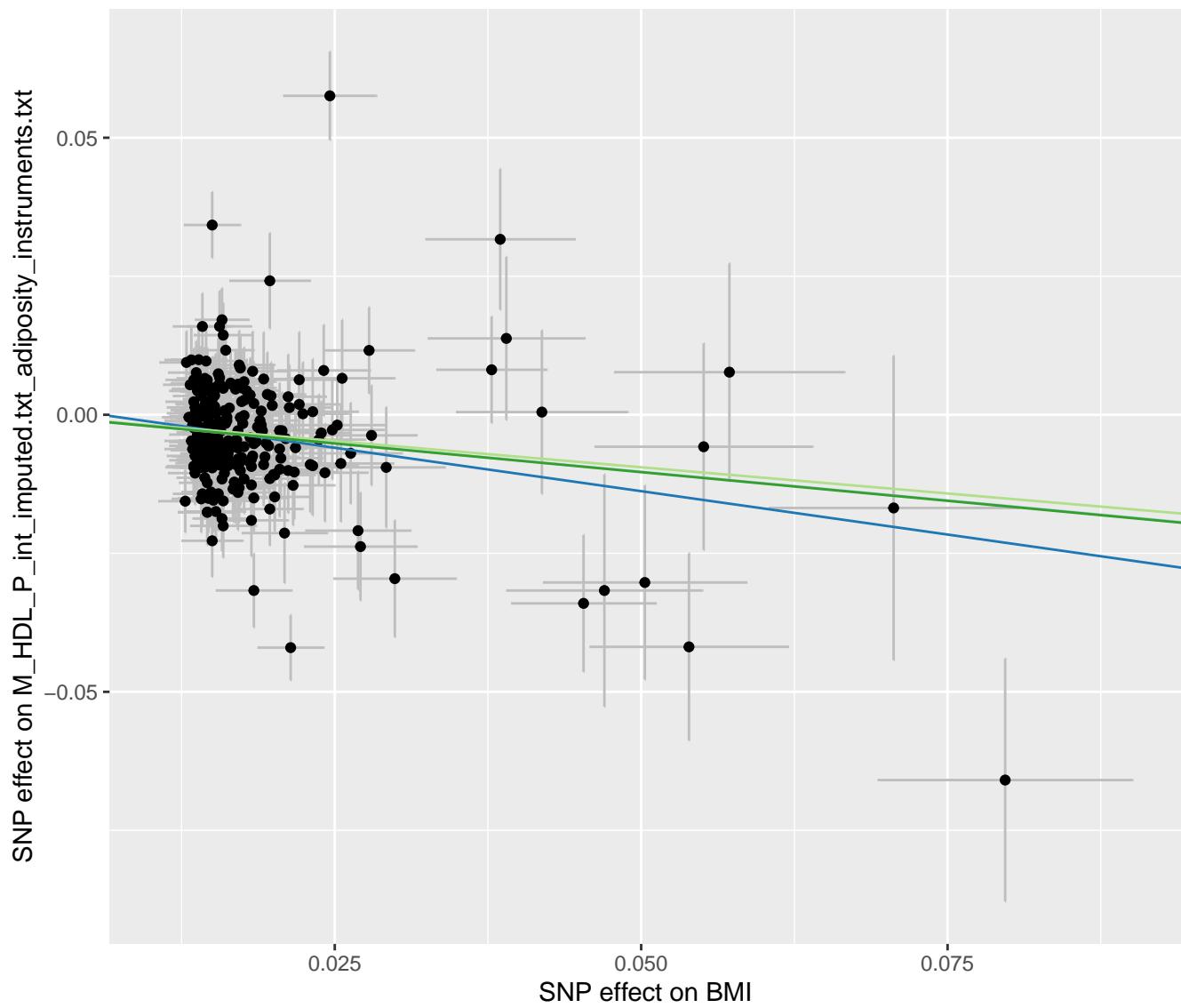
Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



MR Test

A blue diagonal bar extending from the top right towards the bottom left.

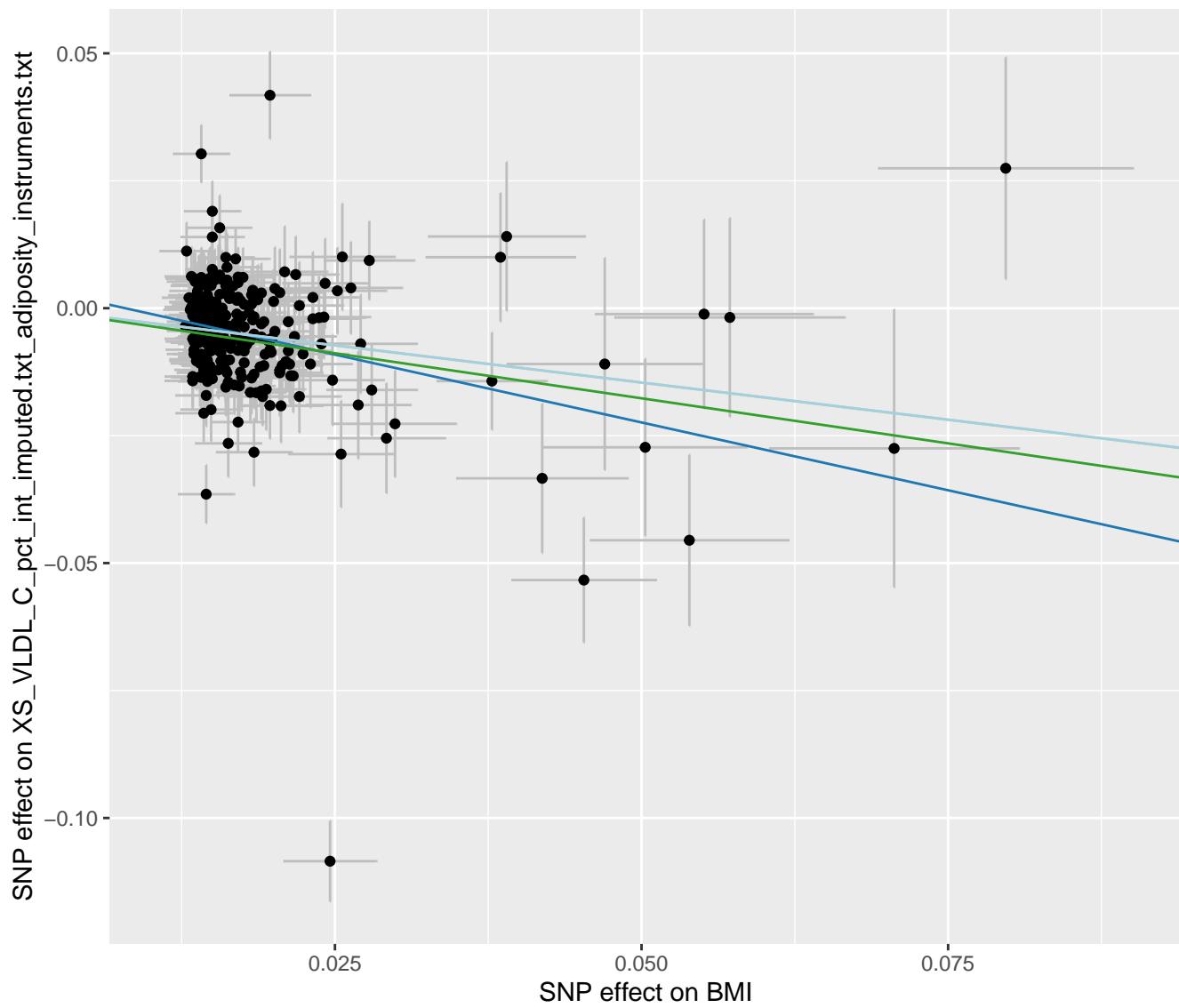
Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



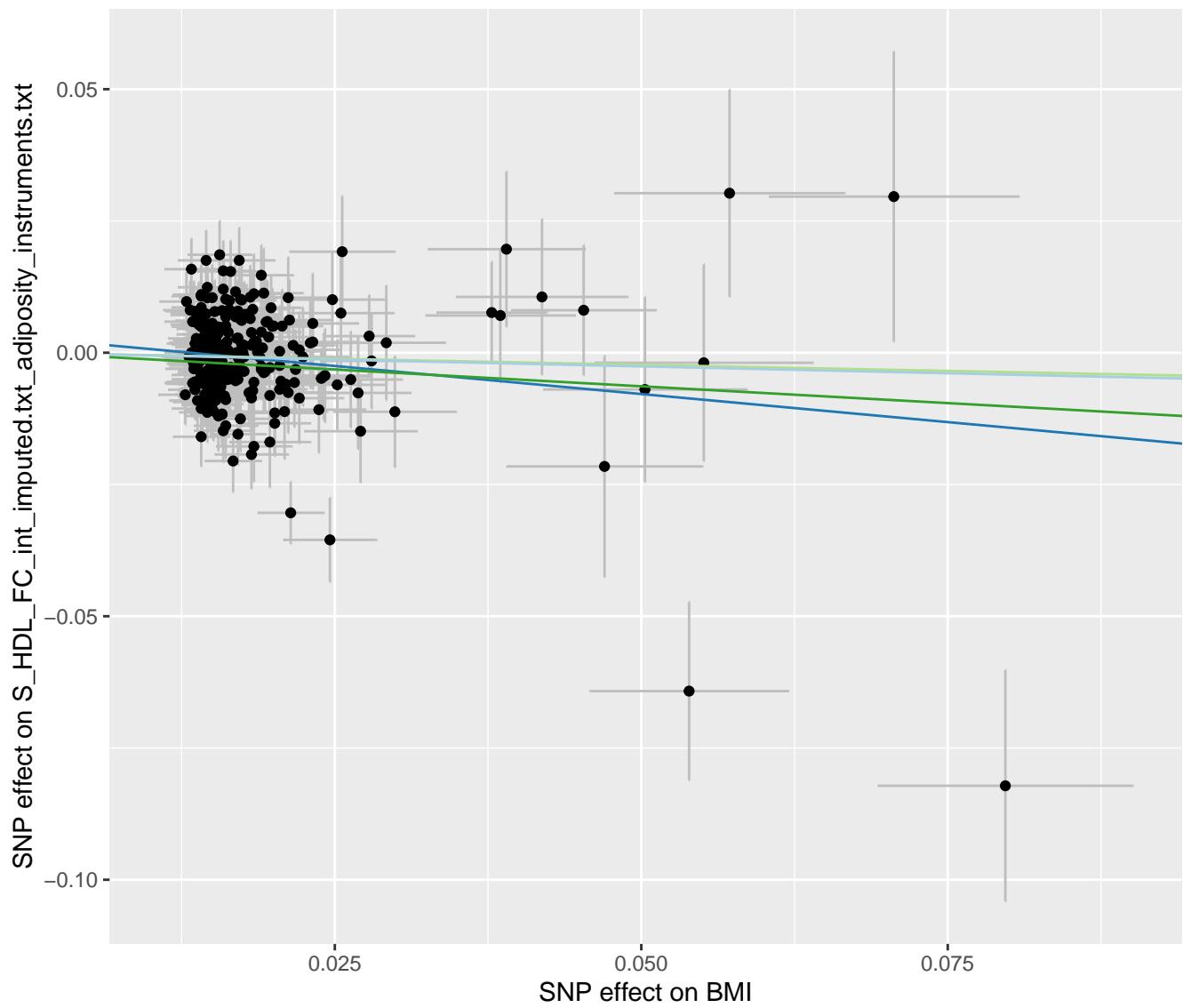
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



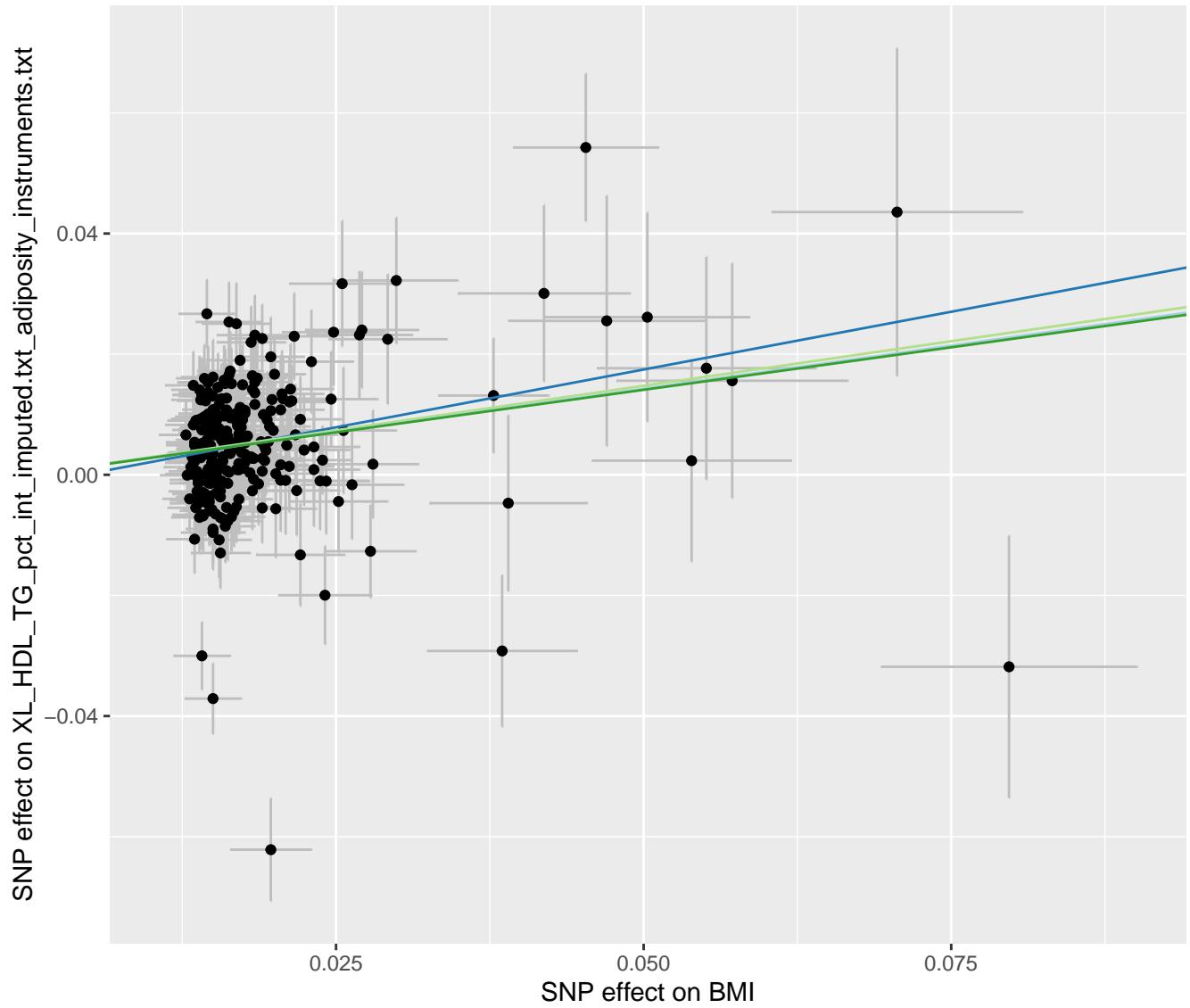
MR Egger



Weighted median



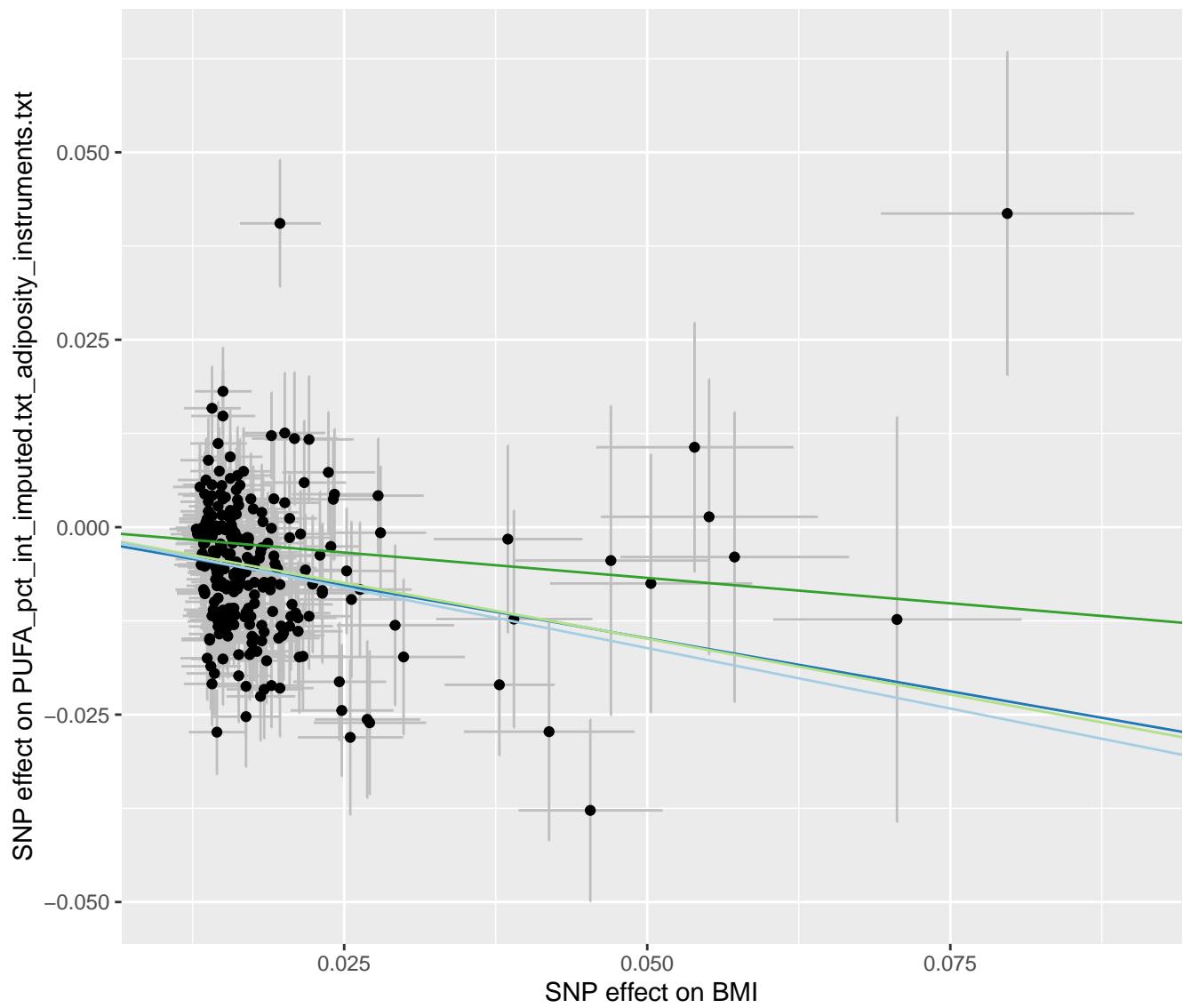
Weighted mode



### MR Test

Inverse variance weighted (multiplicative random effects)  
MR Egger

Weighted median  
Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



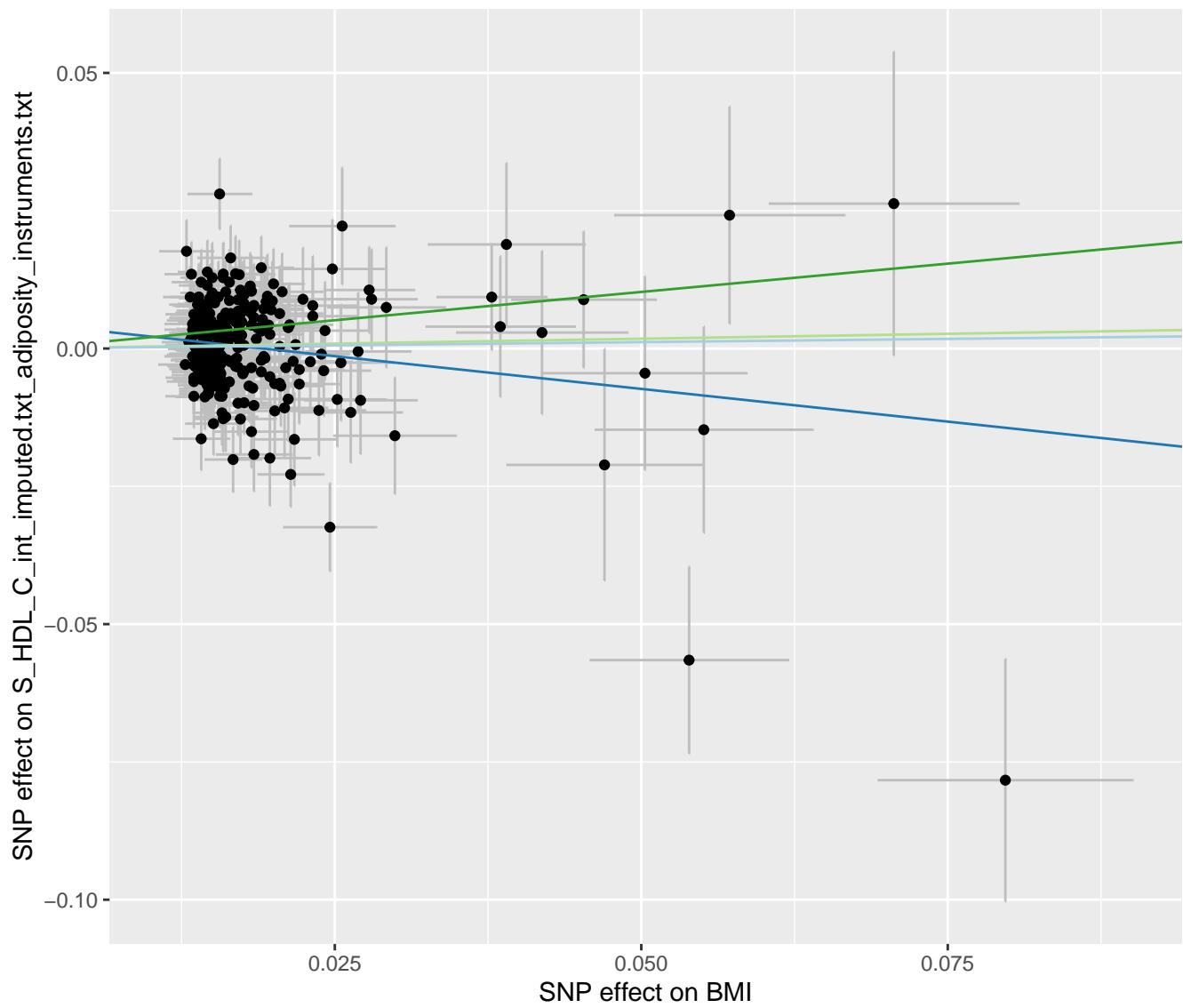
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



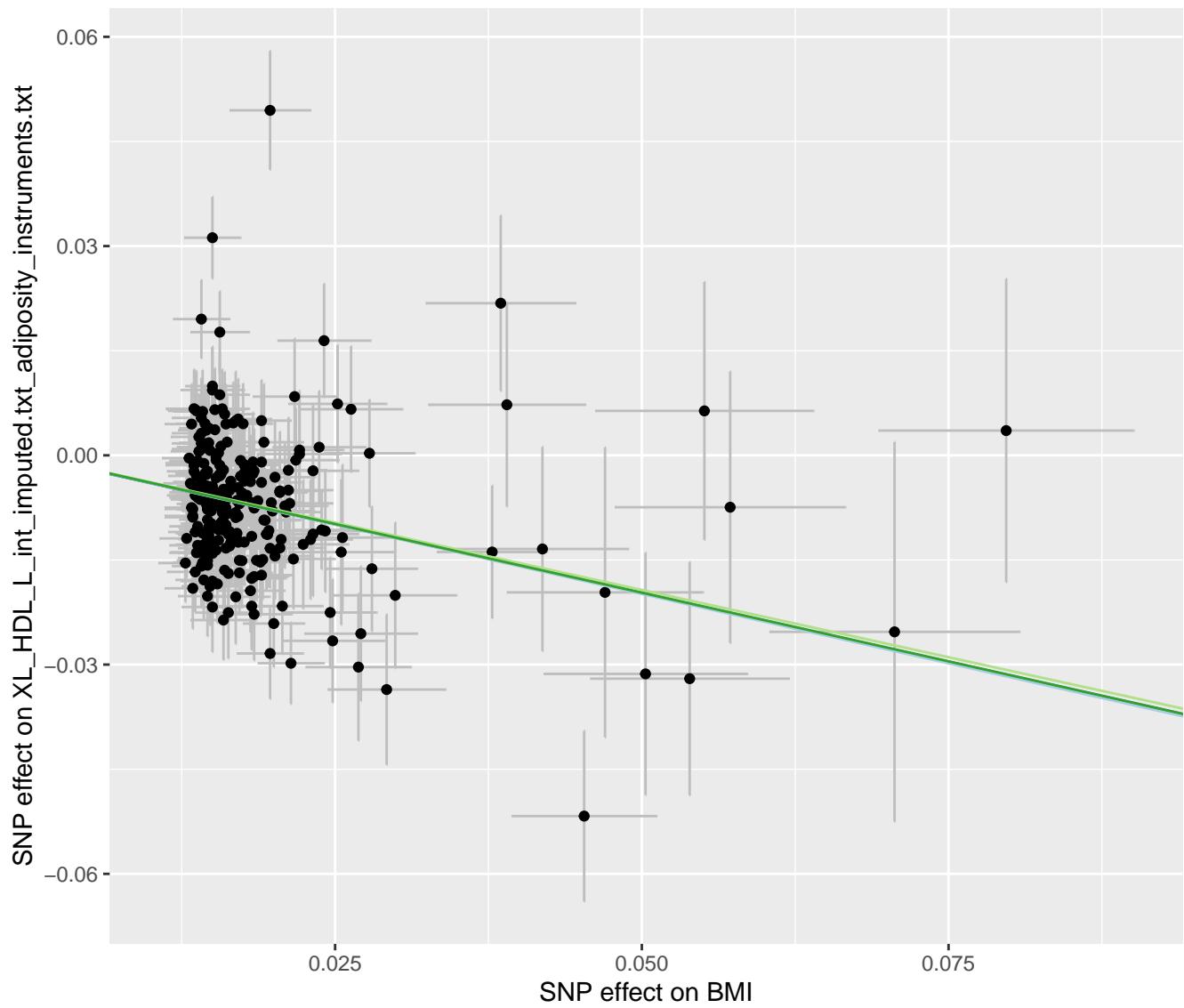
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

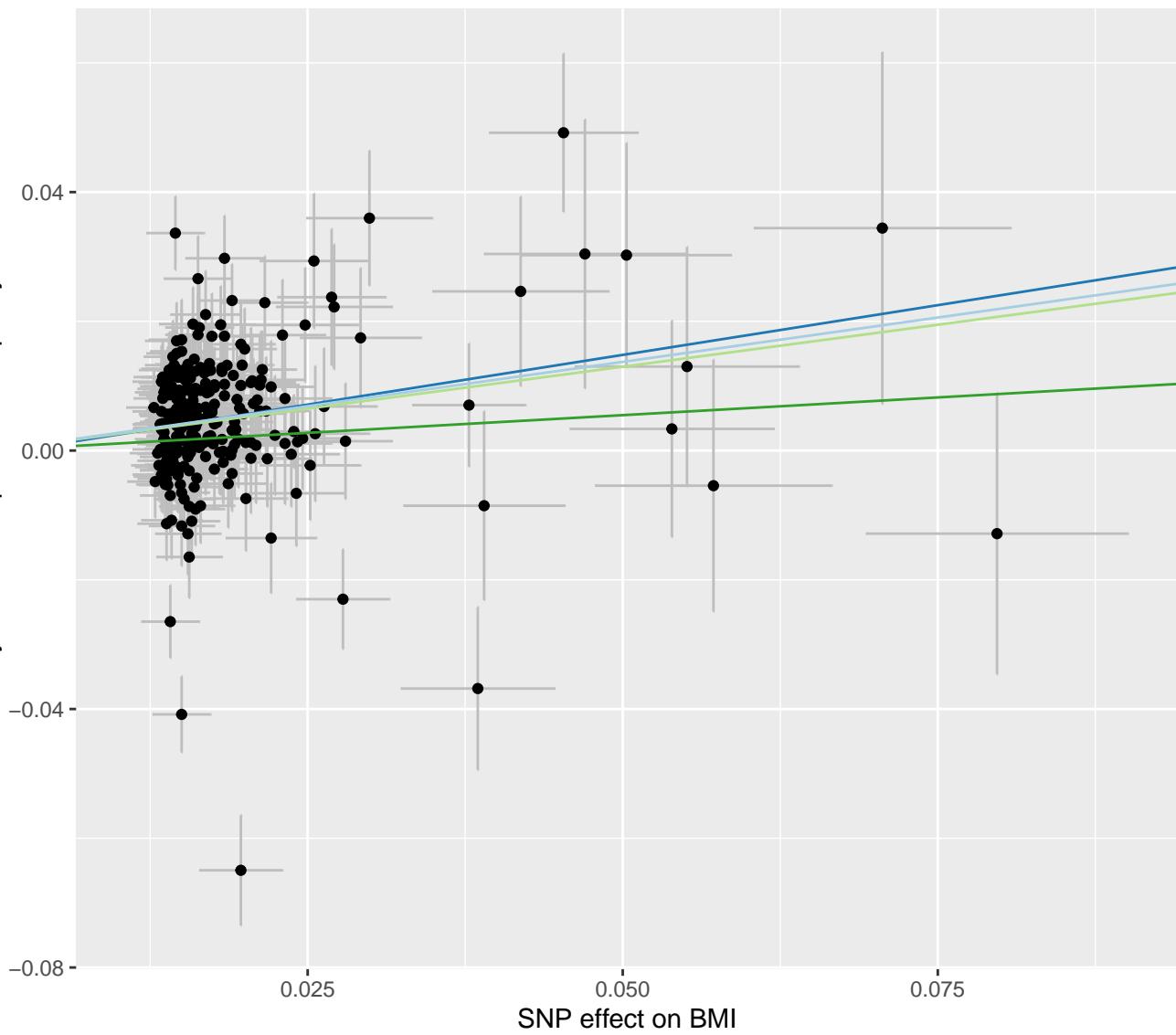


Weighted median



Weighted mode

SNP effect on TG\_by\_PG\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



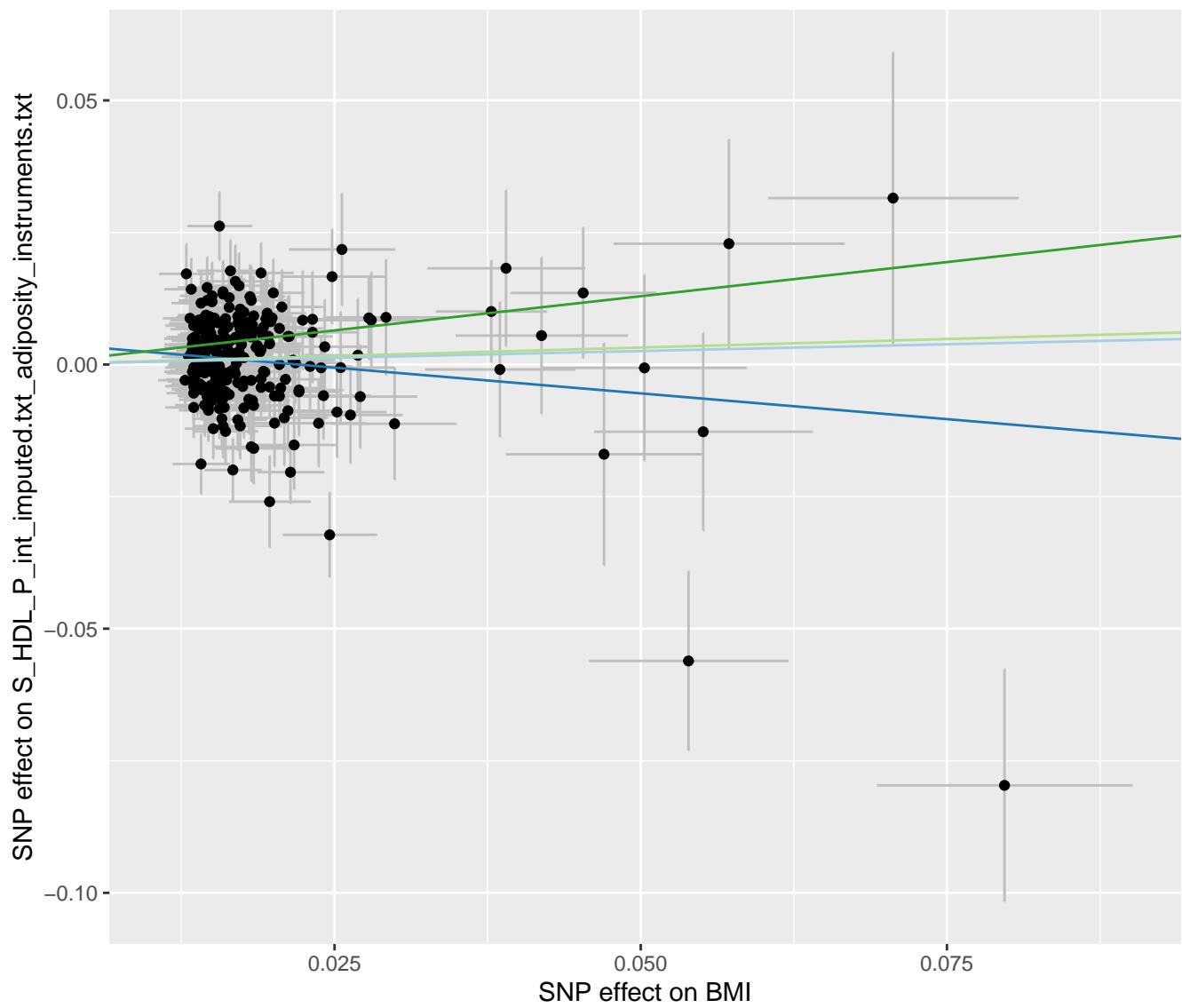
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



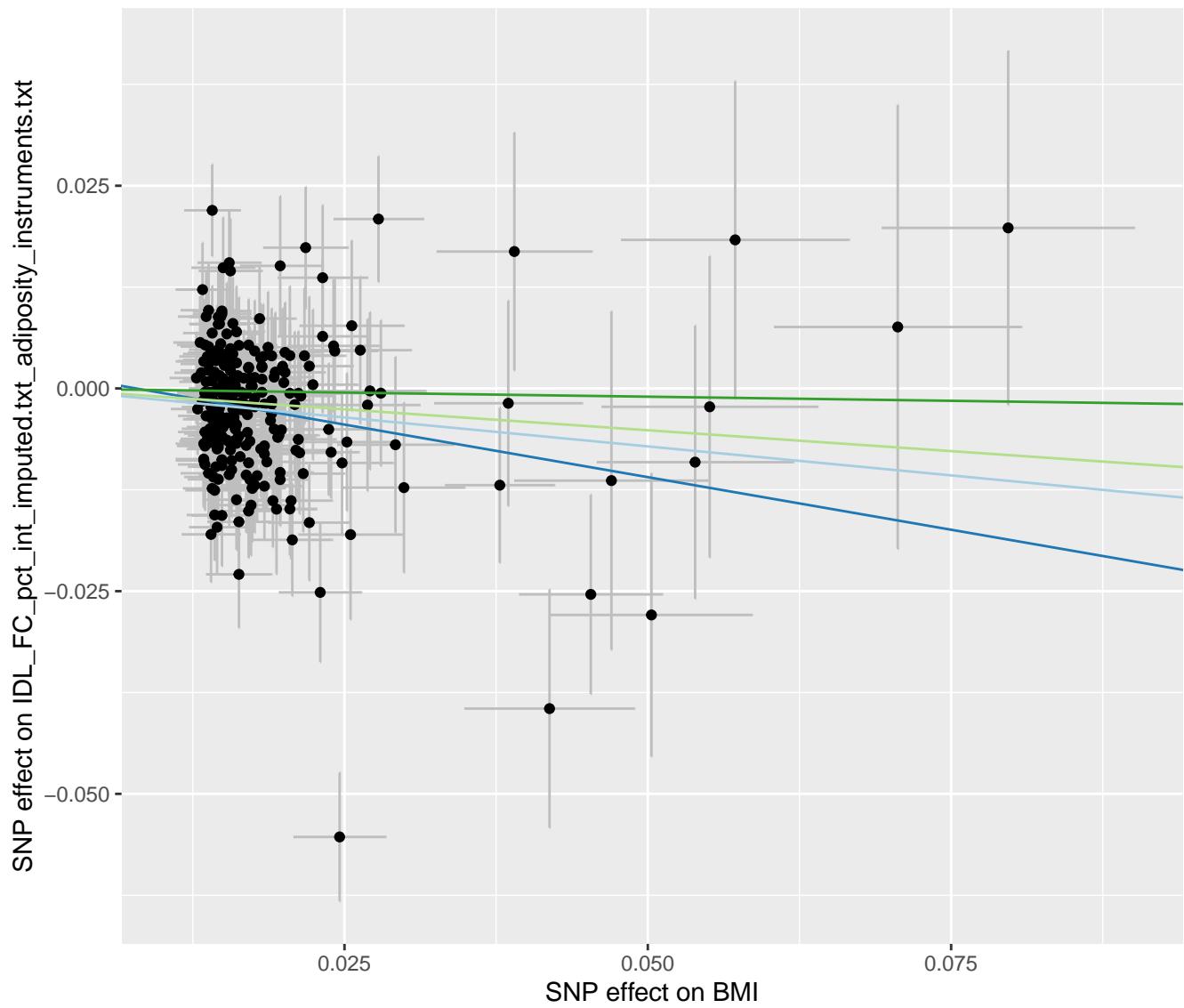
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

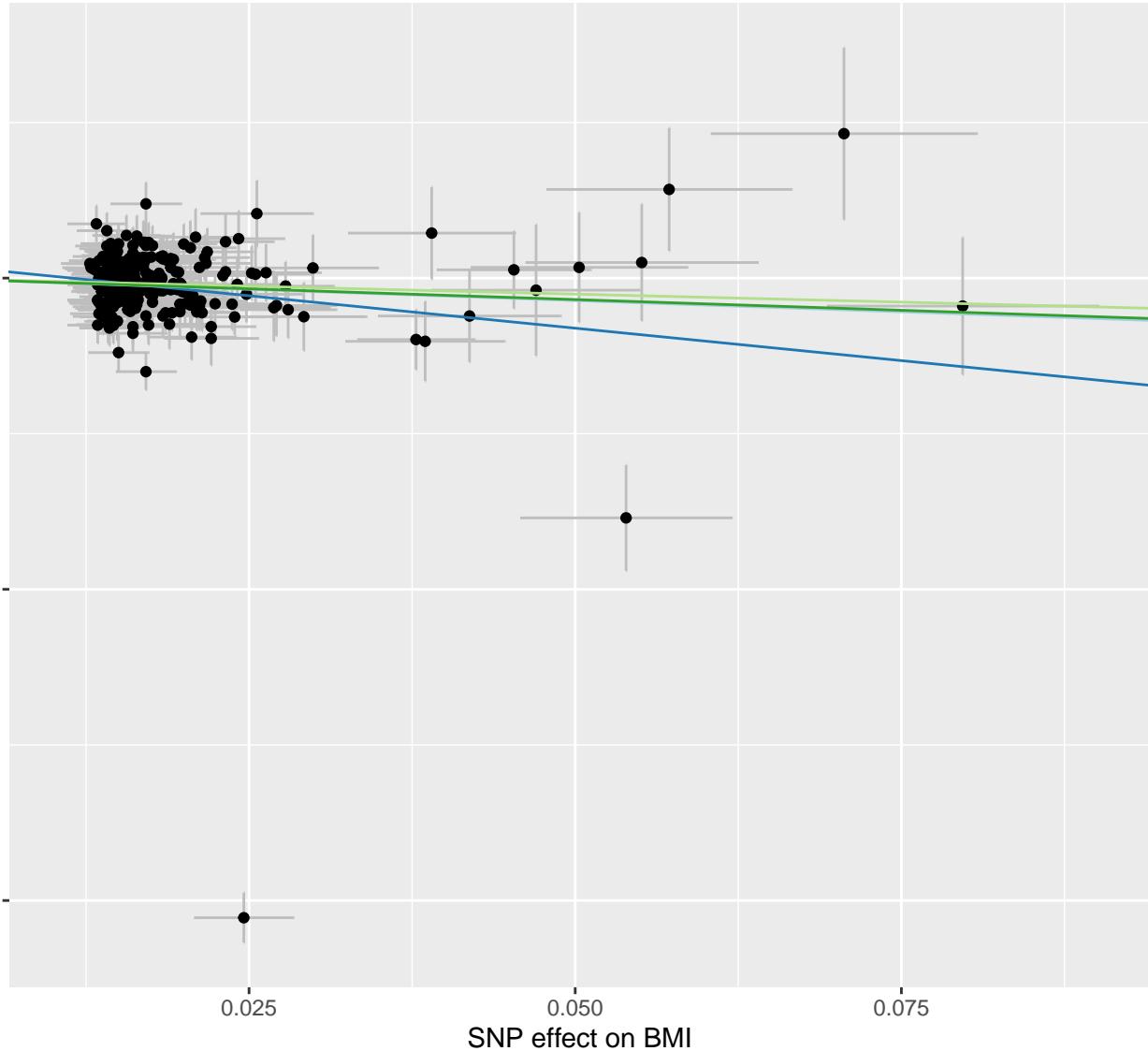


Weighted median



Weighted mode

SNP effect on S\_LDL\_FC\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



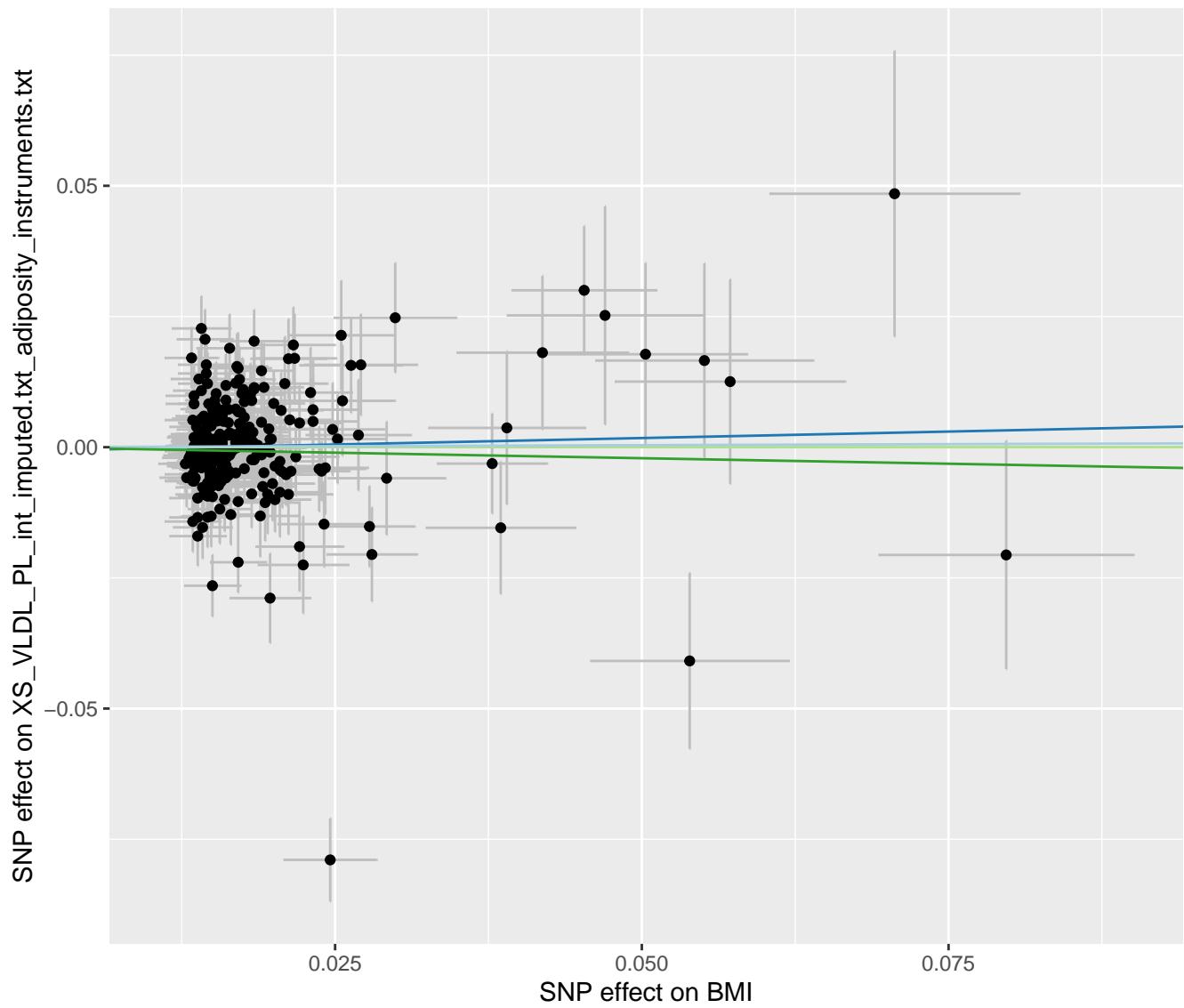
MR Egger



Weighted median



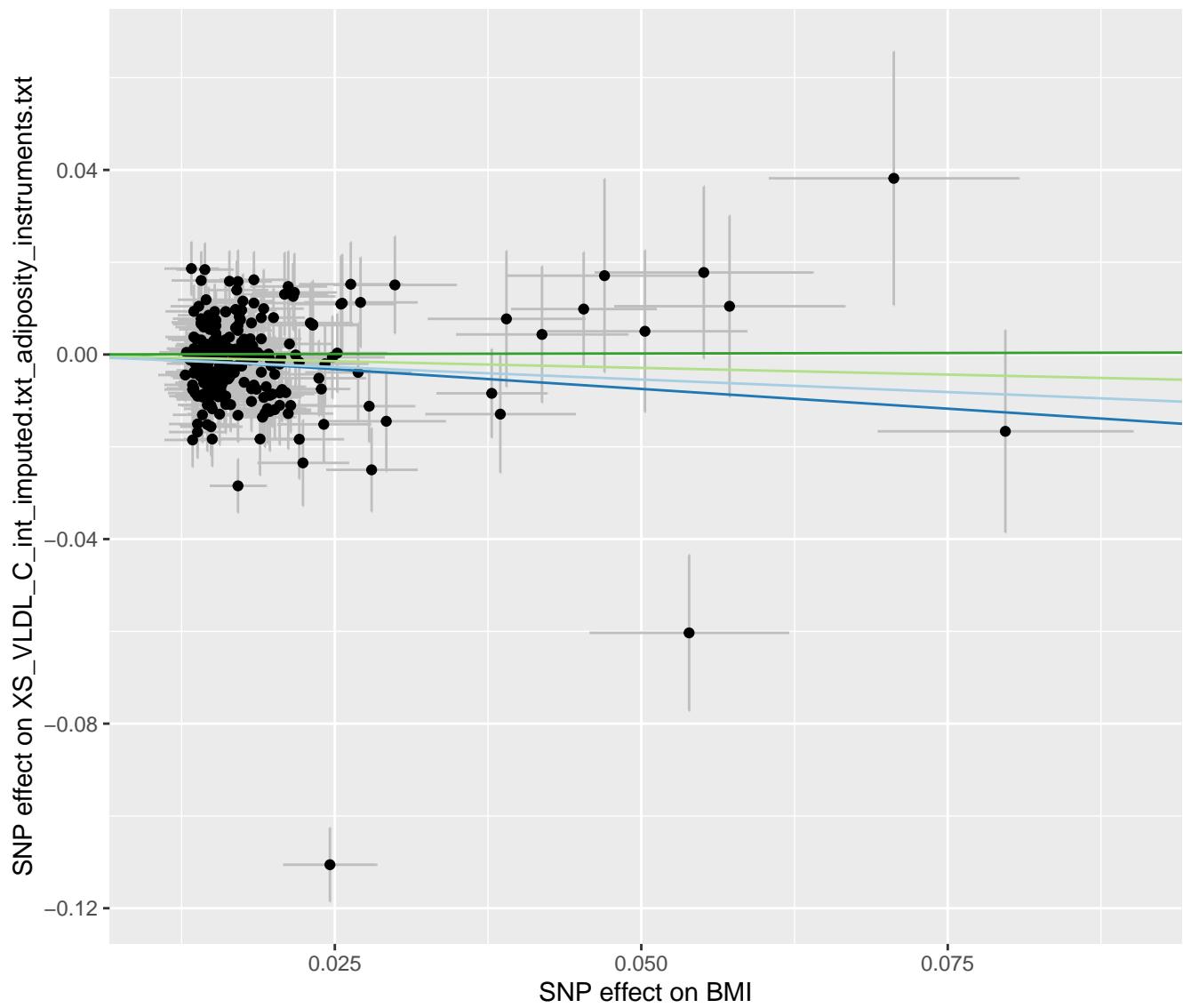
Weighted mode



# MR Test

Inverse variance weighted (multiplicative random effects)  
MR Egger

Weighted median  
Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

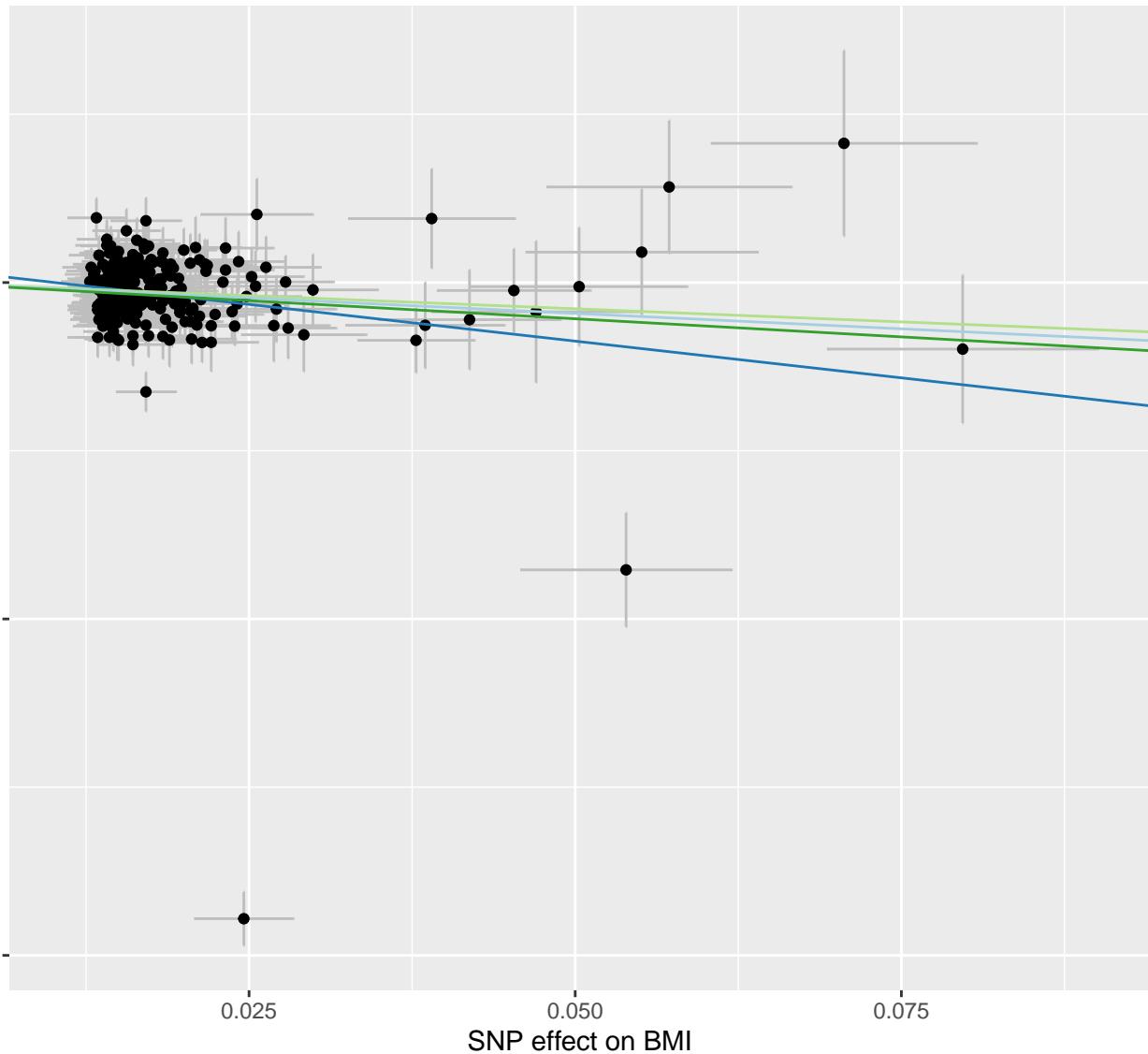


Weighted median

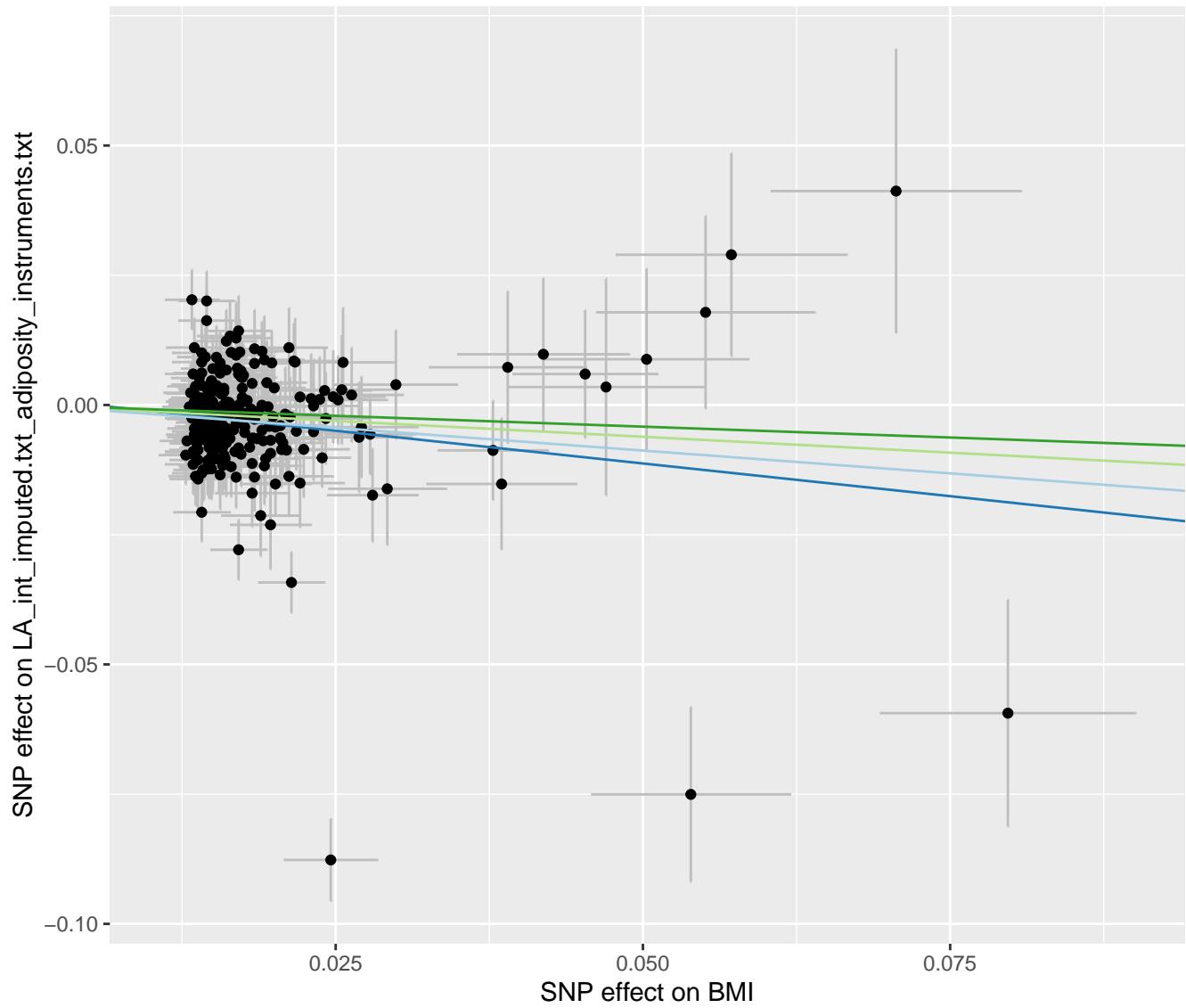
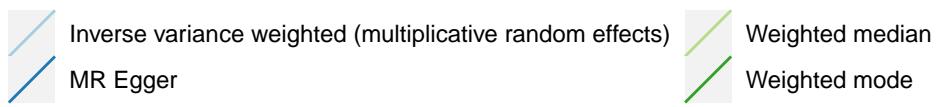


Weighted mode

SNP effect on LDL\_FC\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



# MR Test



Inverse variance weighted (multiplicative random effects)



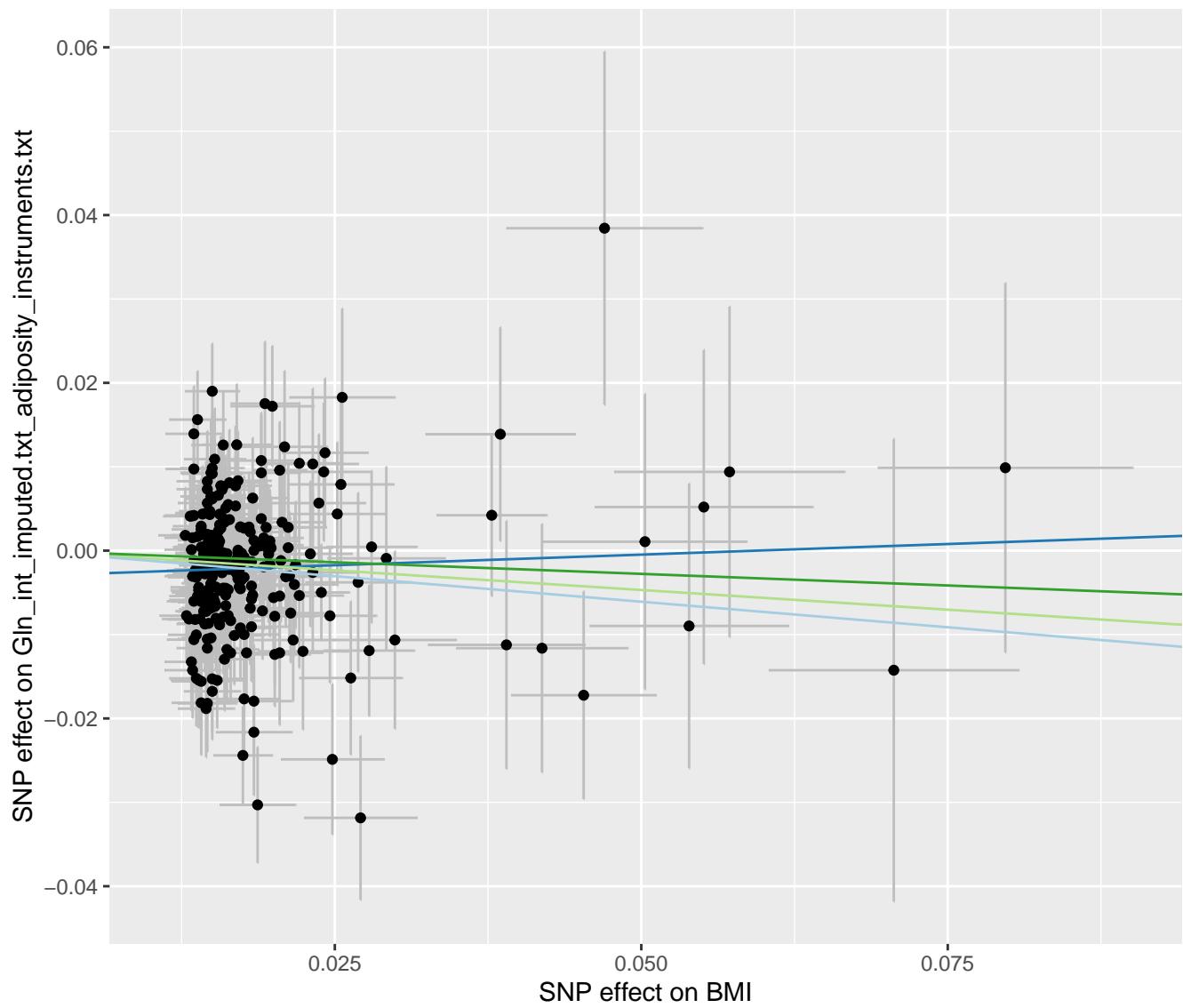
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on Cholines\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

0.050

0.075

0.05

0.00

-0.05

## MR Test



Inverse variance weighted (multiplicative random effects)



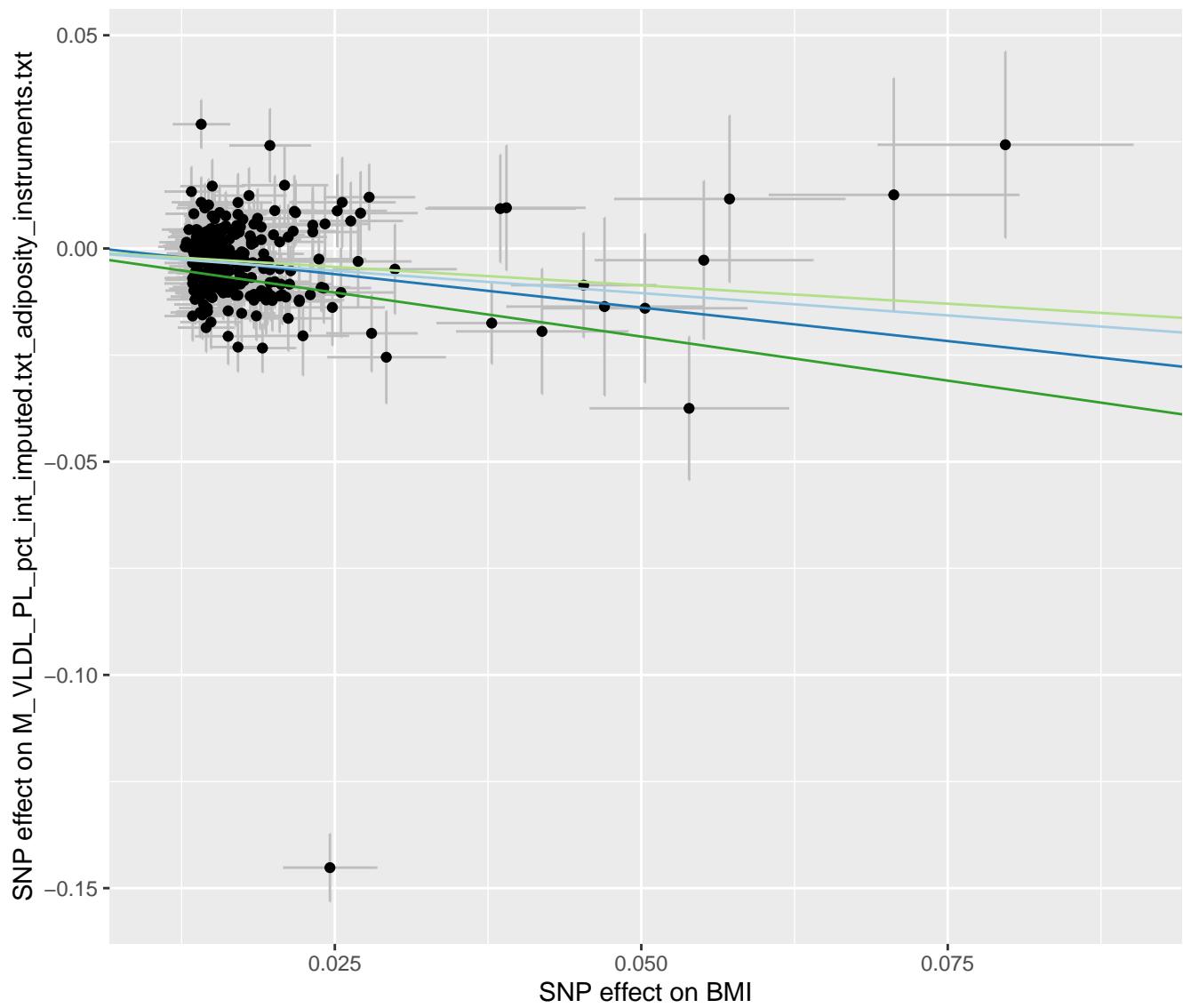
MR Egger



Weighted median



Weighted mode



MR Test

1

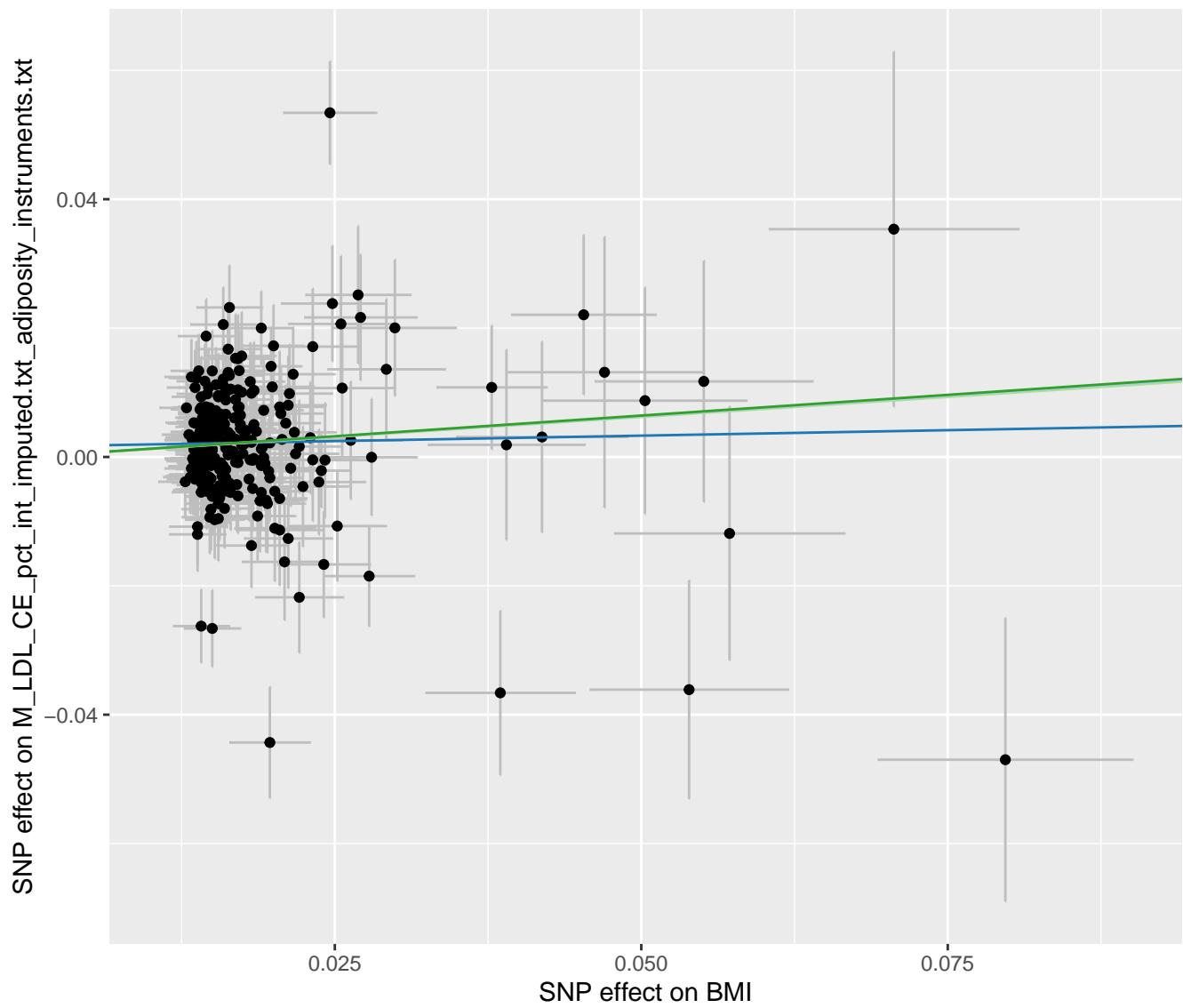
### Inverse variance weighted (multiplicative random effects)

MR Egger

10 of 10

## Weighted median

## Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



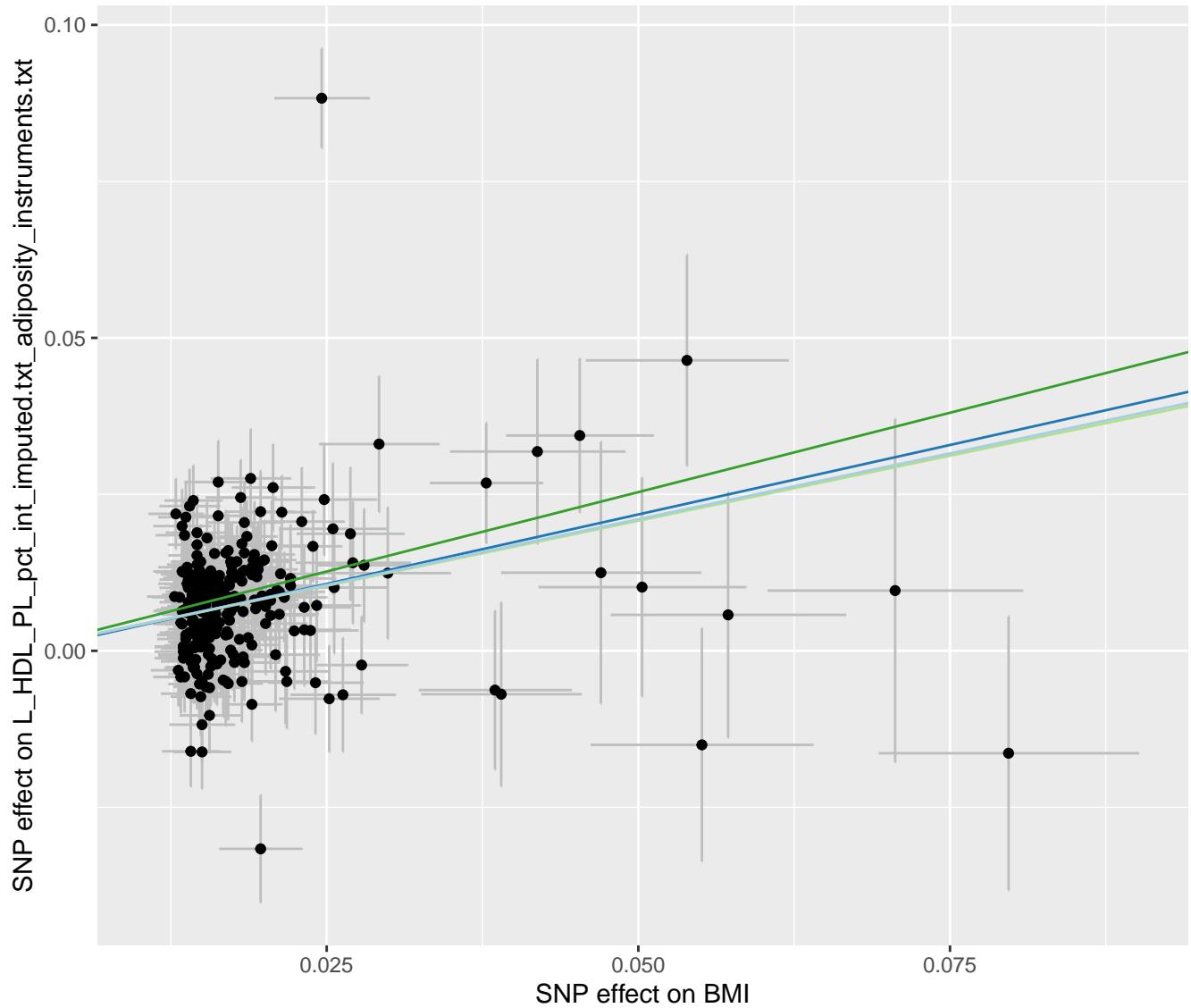
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



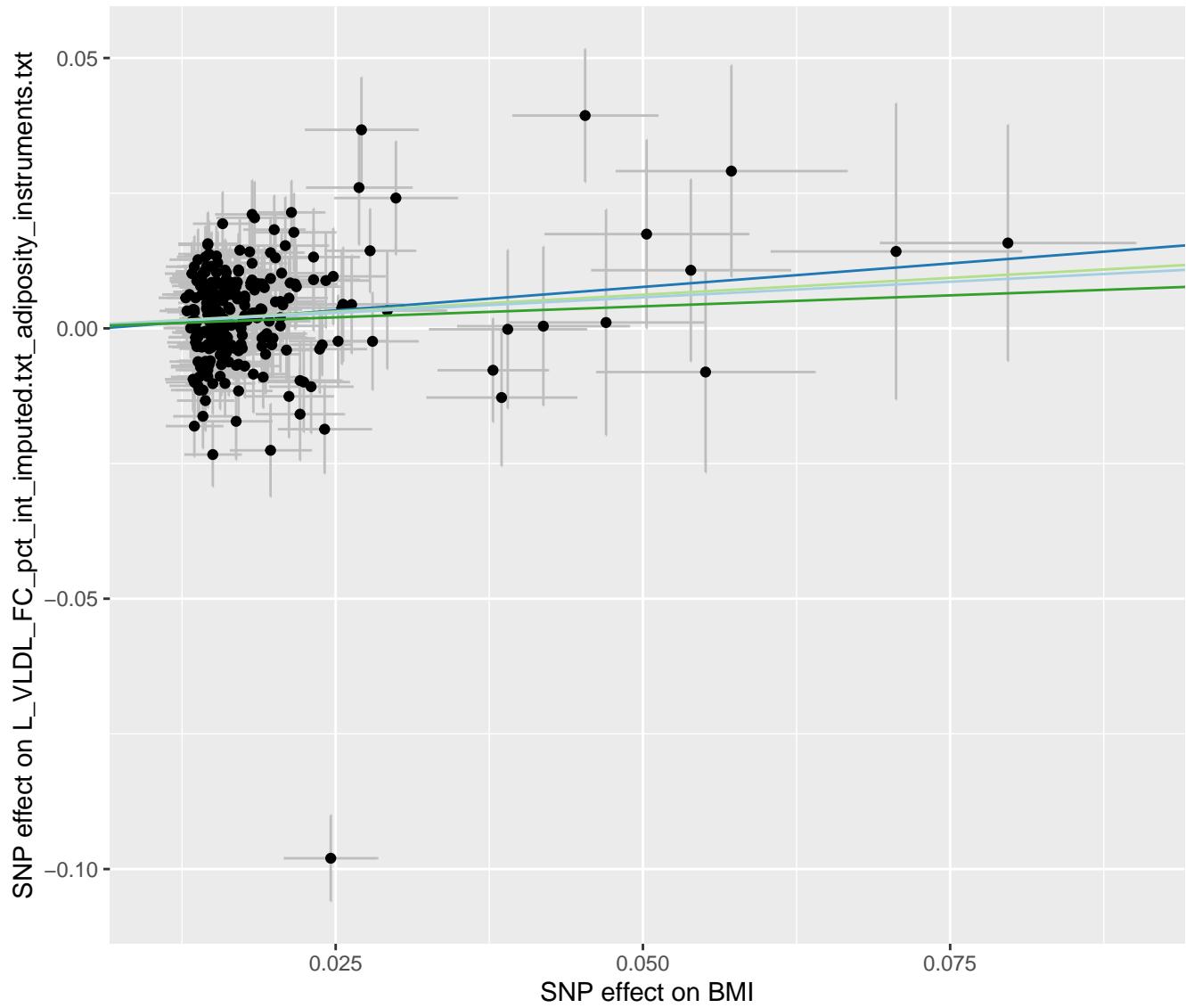
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

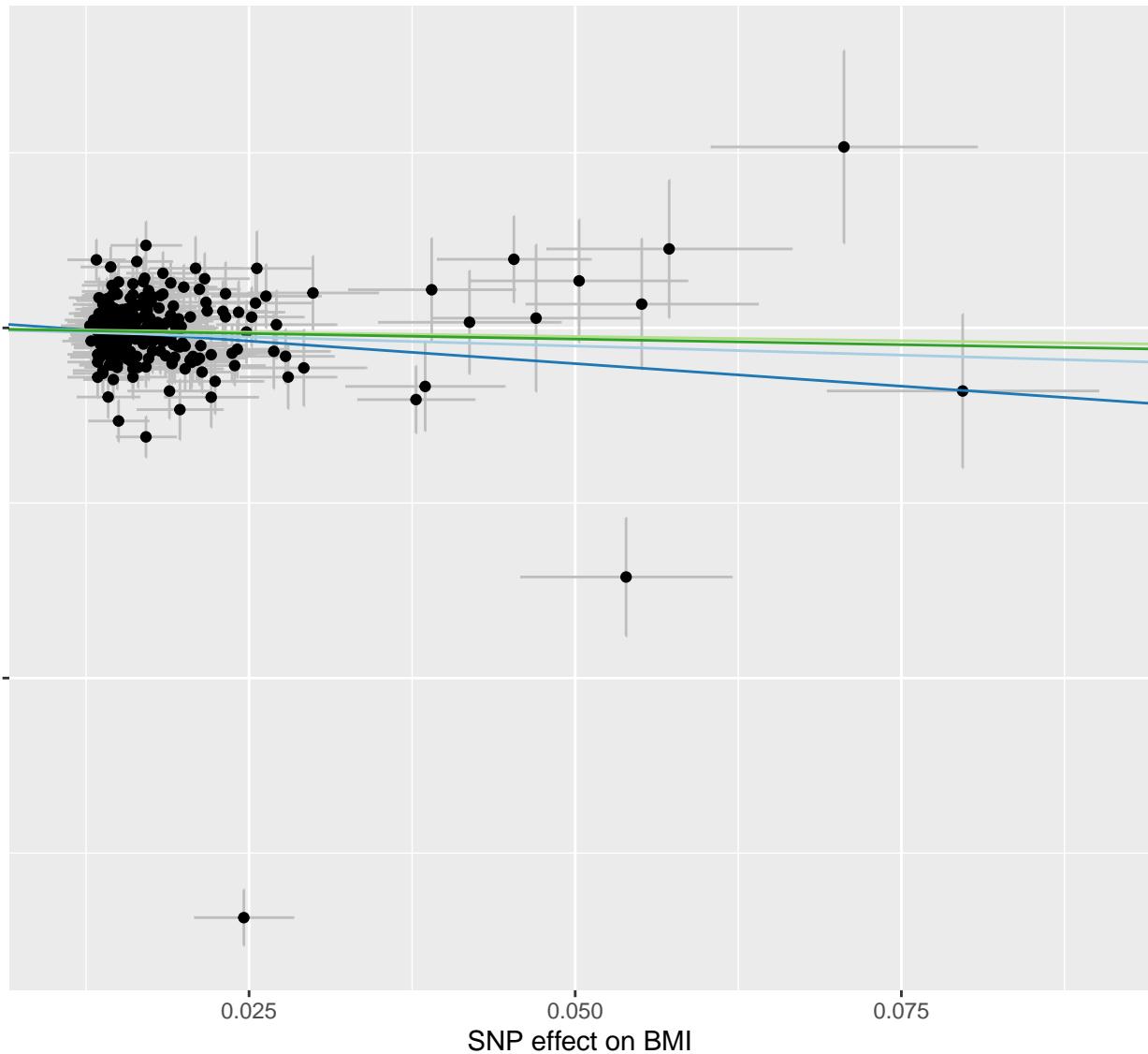


Weighted median



Weighted mode

SNP effect on L\_DL\_P\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



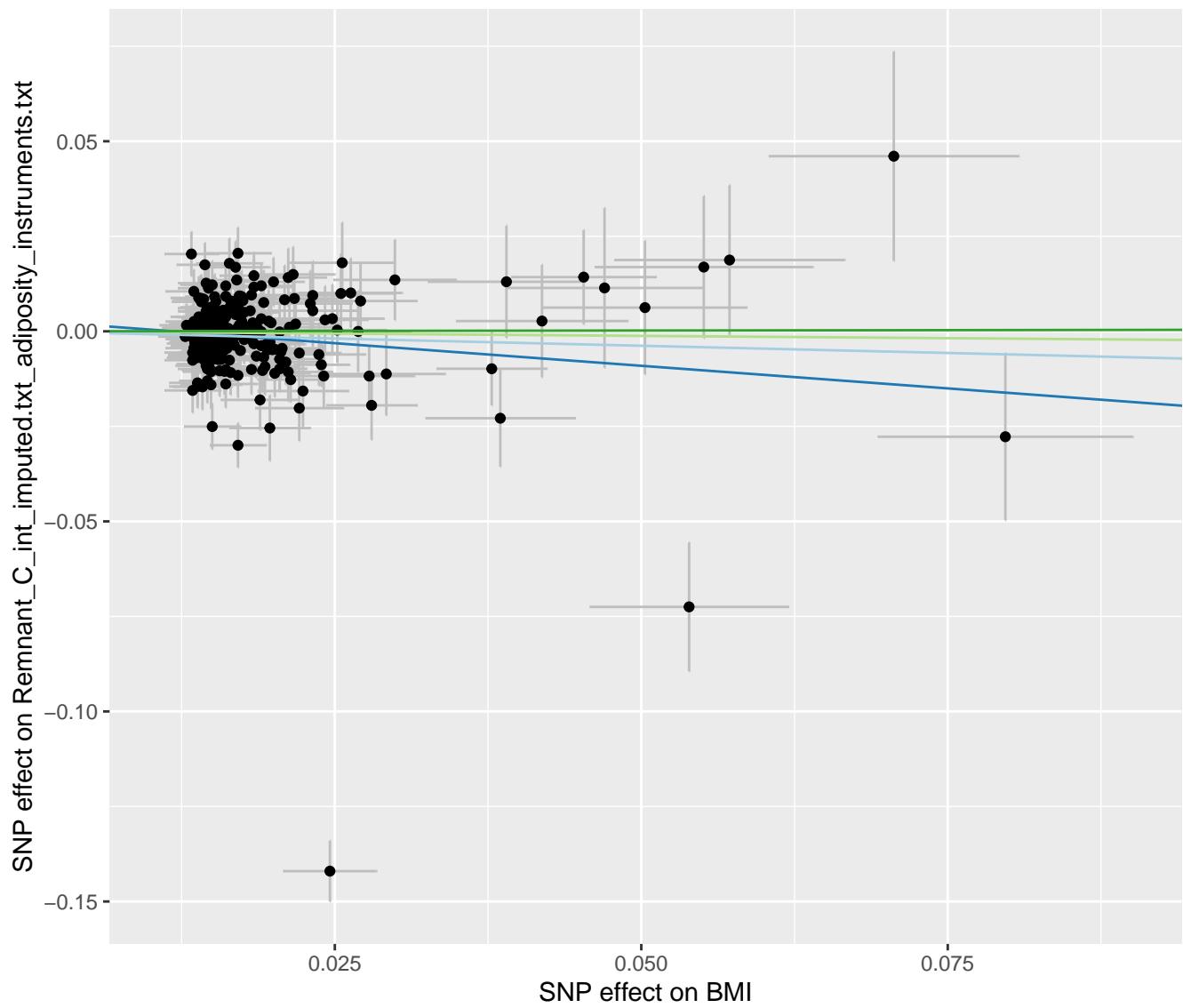
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on VLDL\_PL\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

0.075

# MR Test



Inverse variance weighted (multiplicative random effects)



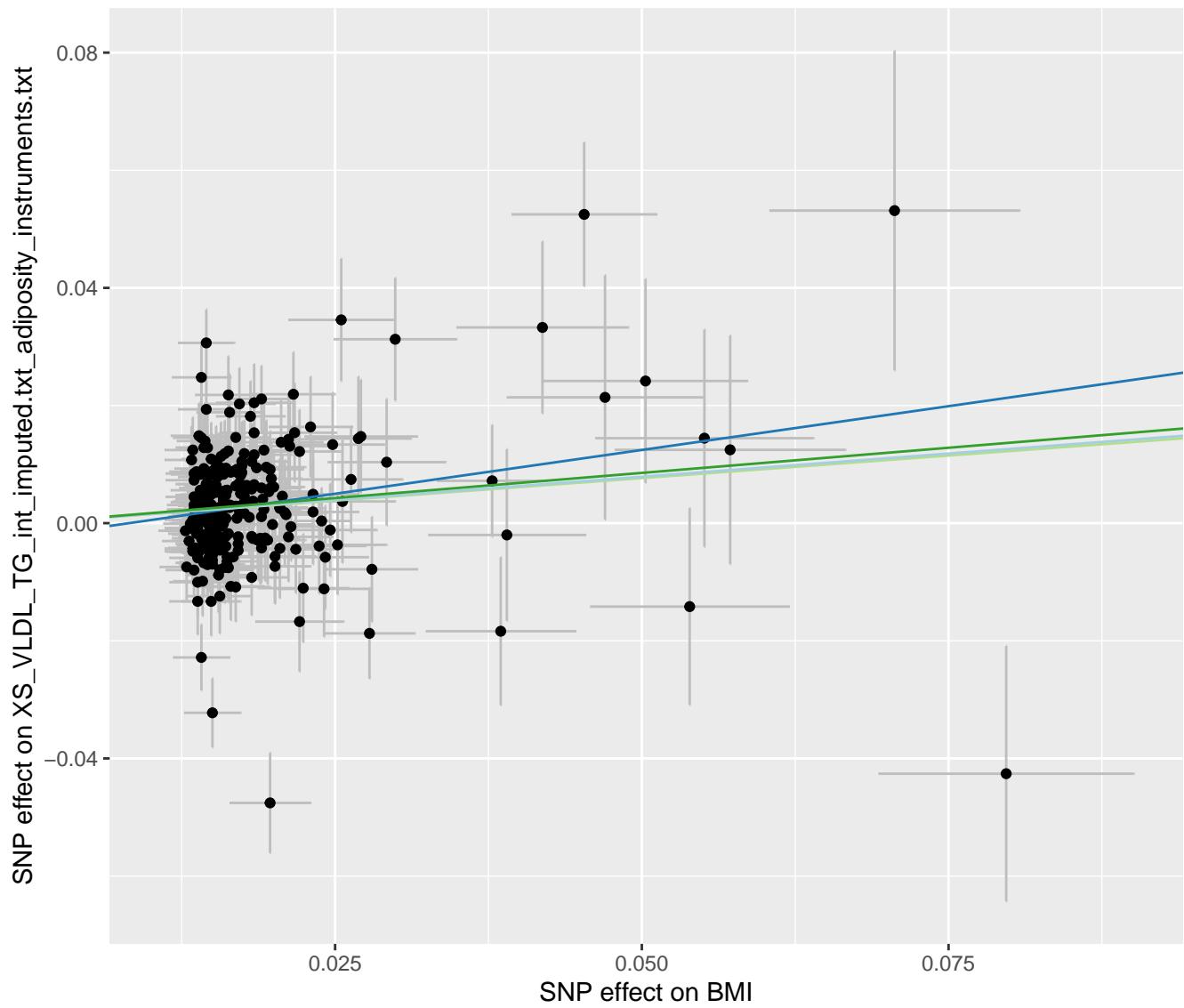
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

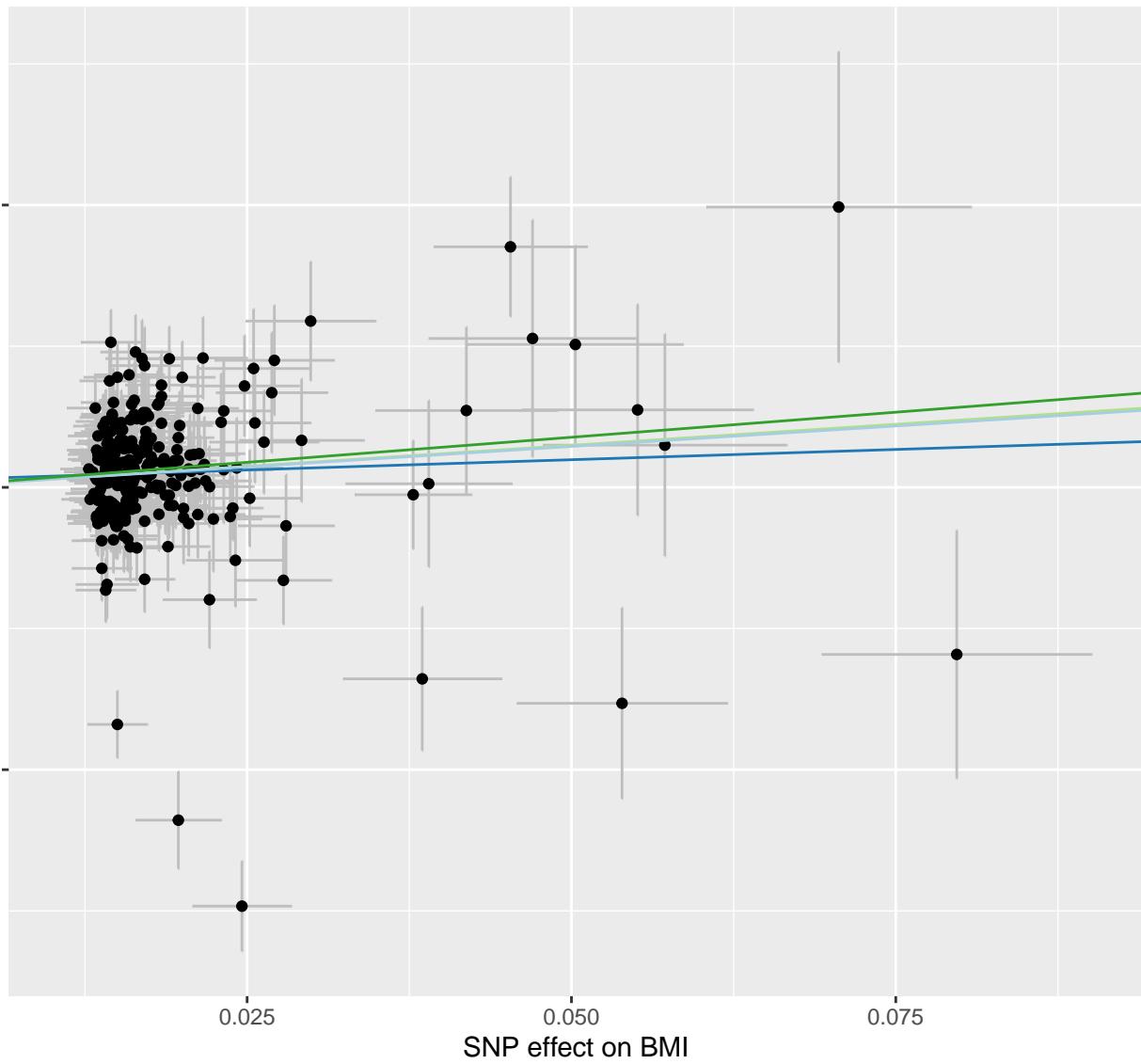


Weighted median



Weighted mode

SNP effect on XL\_VLDL\_CE\_int\_imputed\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)

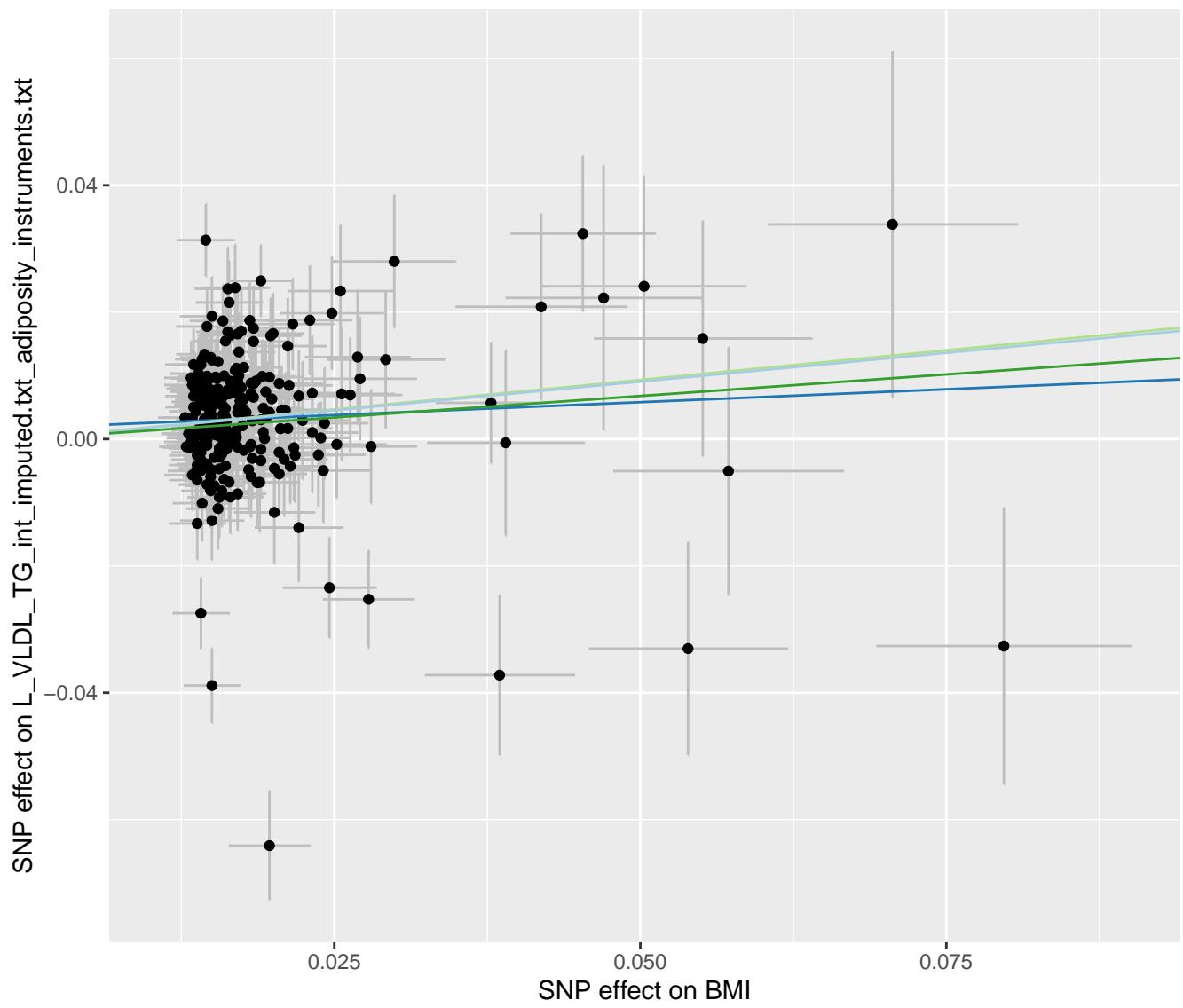
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on Omega\_6\_pct\_int\_imputed\_instruments.txt

0.025

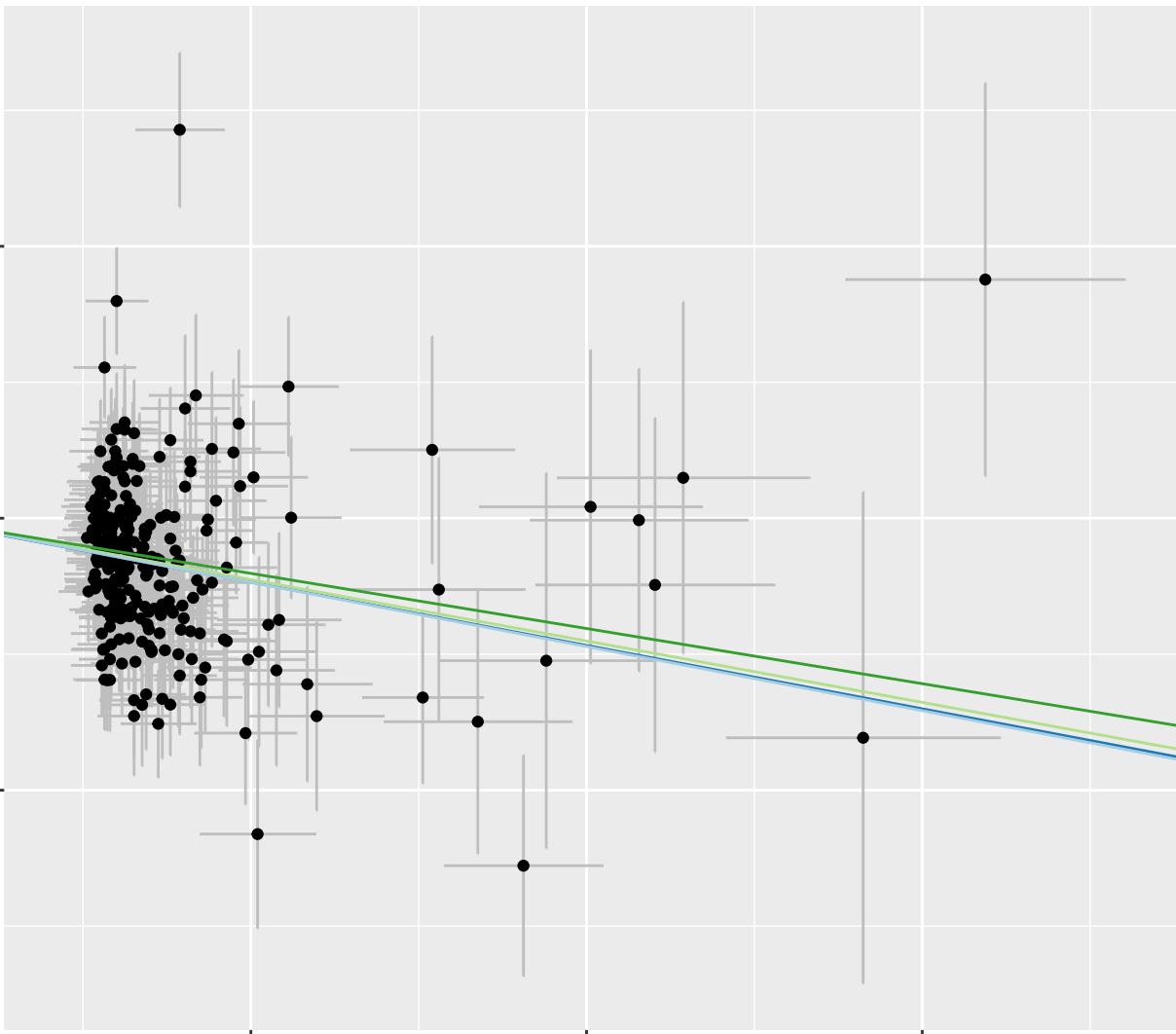
SNP effect on BMI

0.03

0.01

-0.01

-0.03



MR Test

A blue line that slopes upwards from left to right.

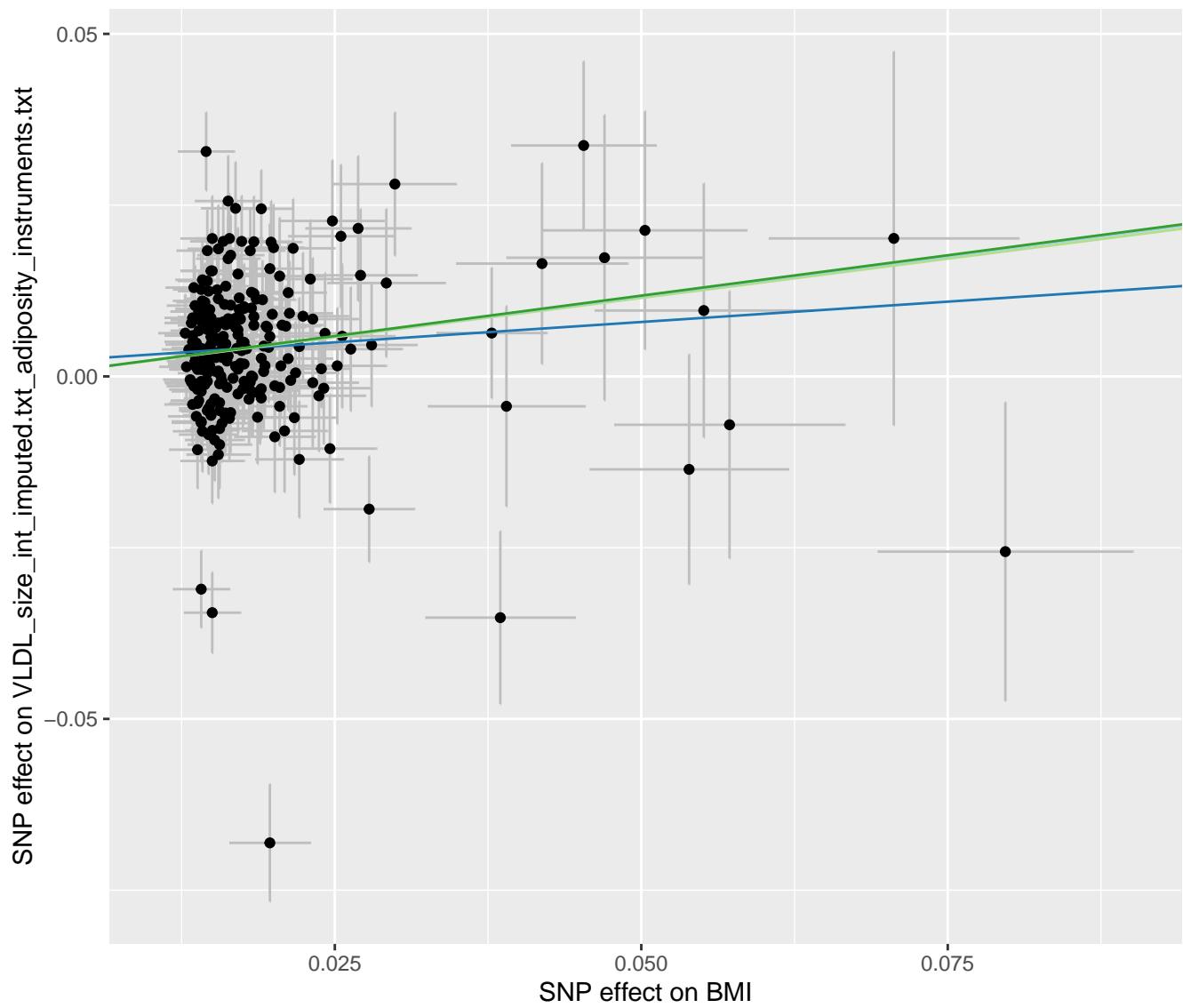
### Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

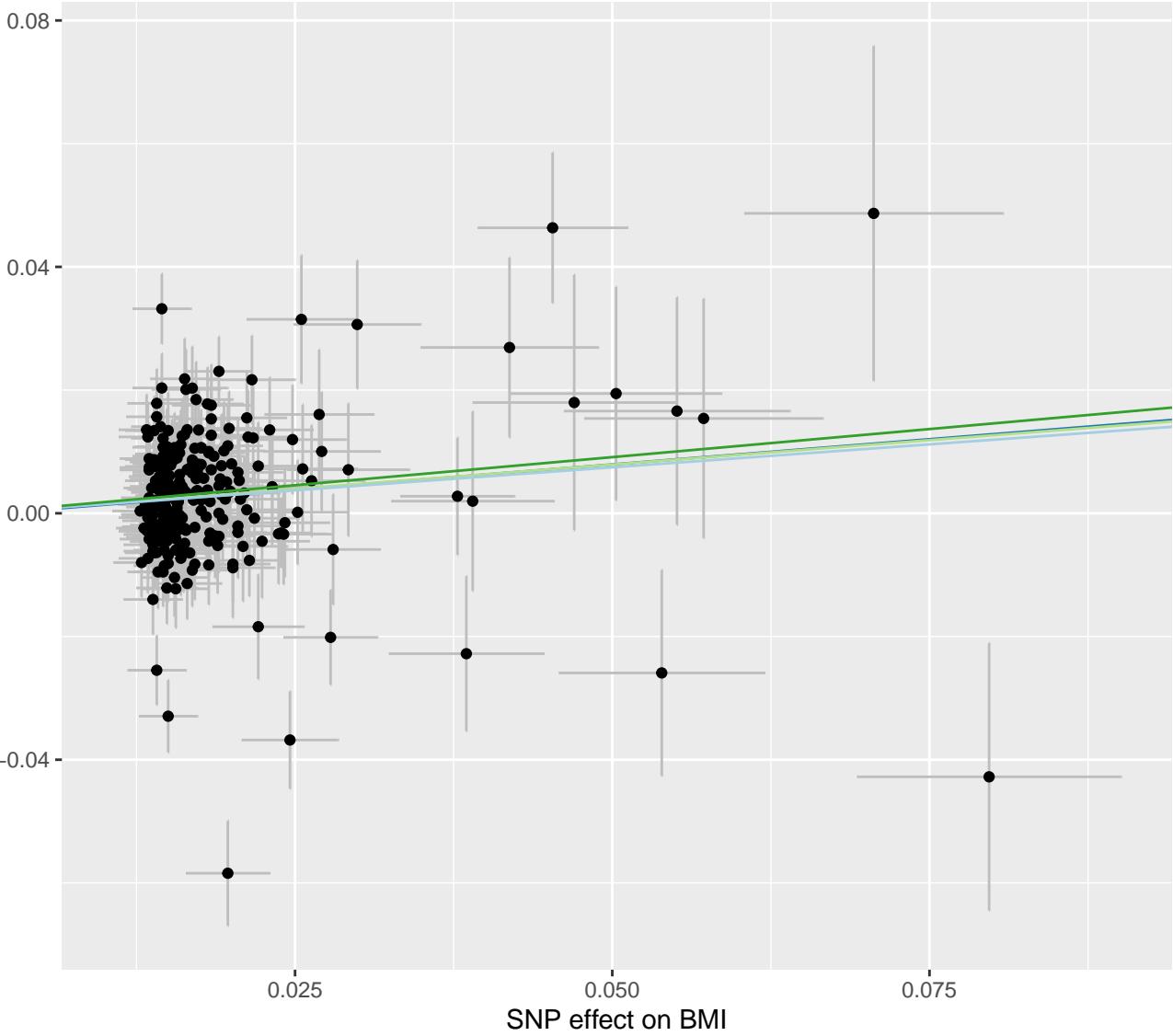


Weighted median



Weighted mode

SNP effect on S\_LDL\_TG\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)

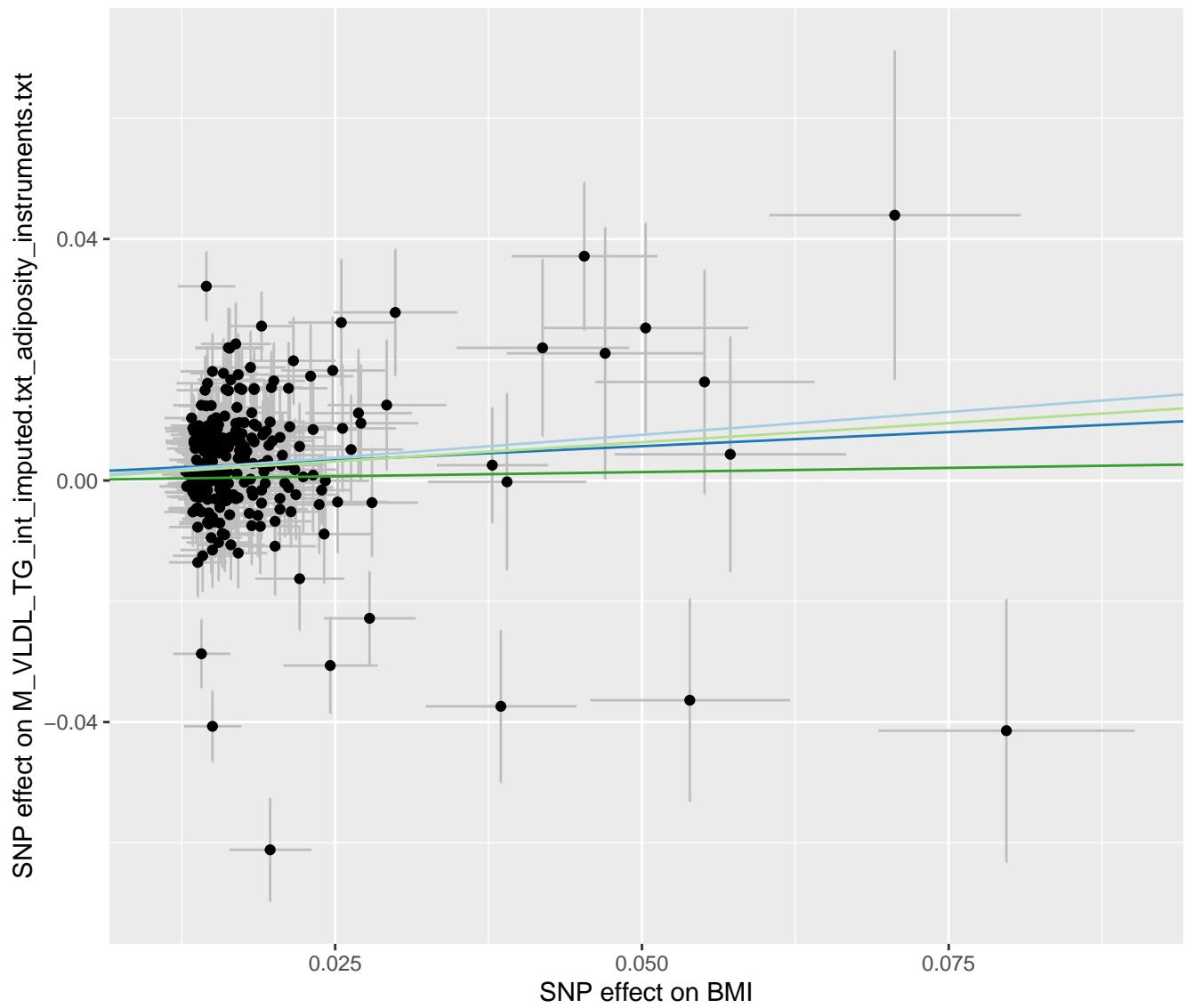
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on M\_LDL\_C\_pct\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

0.05

0.00

-0.05

### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

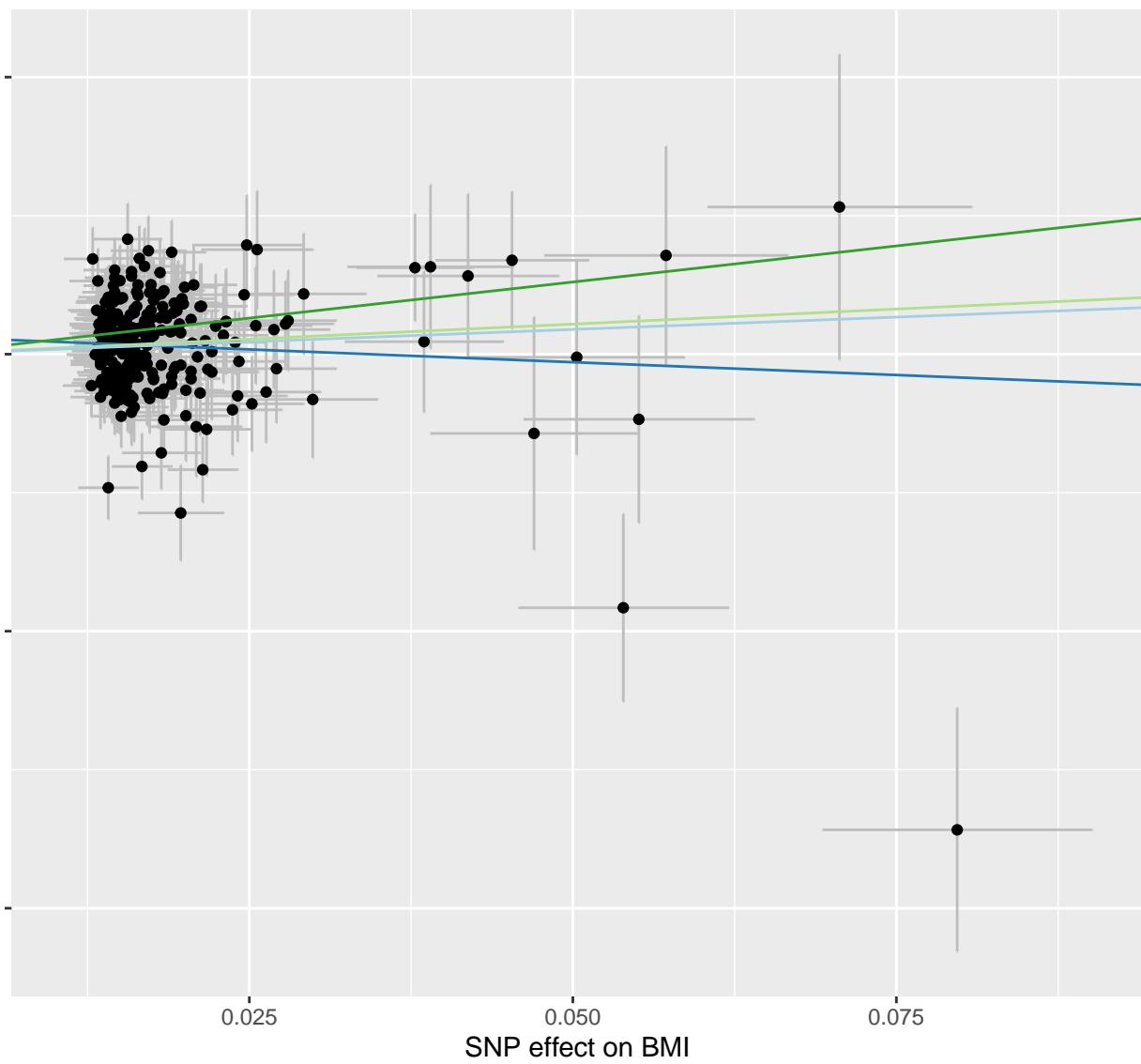


Weighted median



Weighted mode

SNP effect on S\_HDL\_L\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



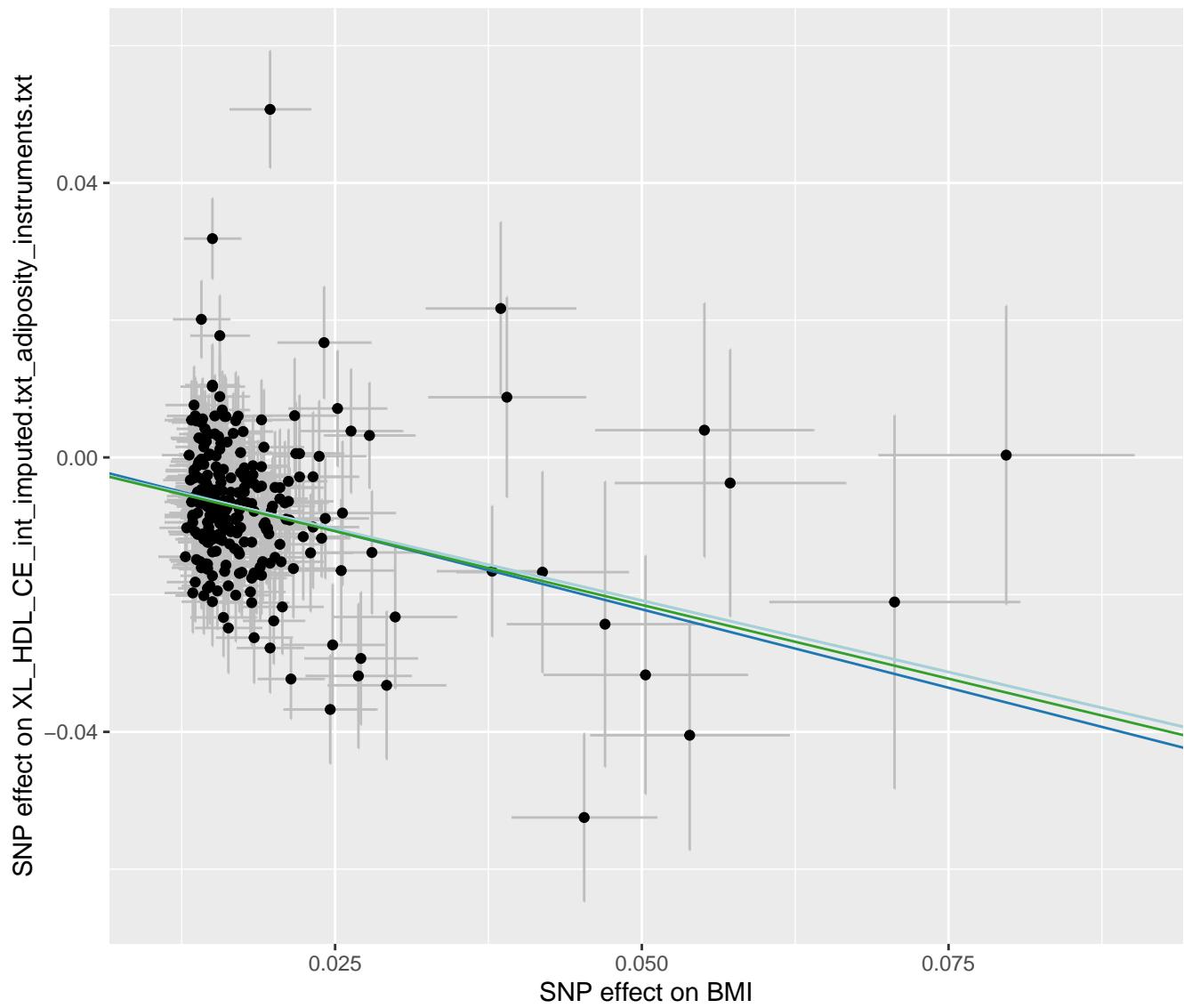
MR Egger



Weighted median



Weighted mode



MR Test

A blue line that slopes upwards from left to right.

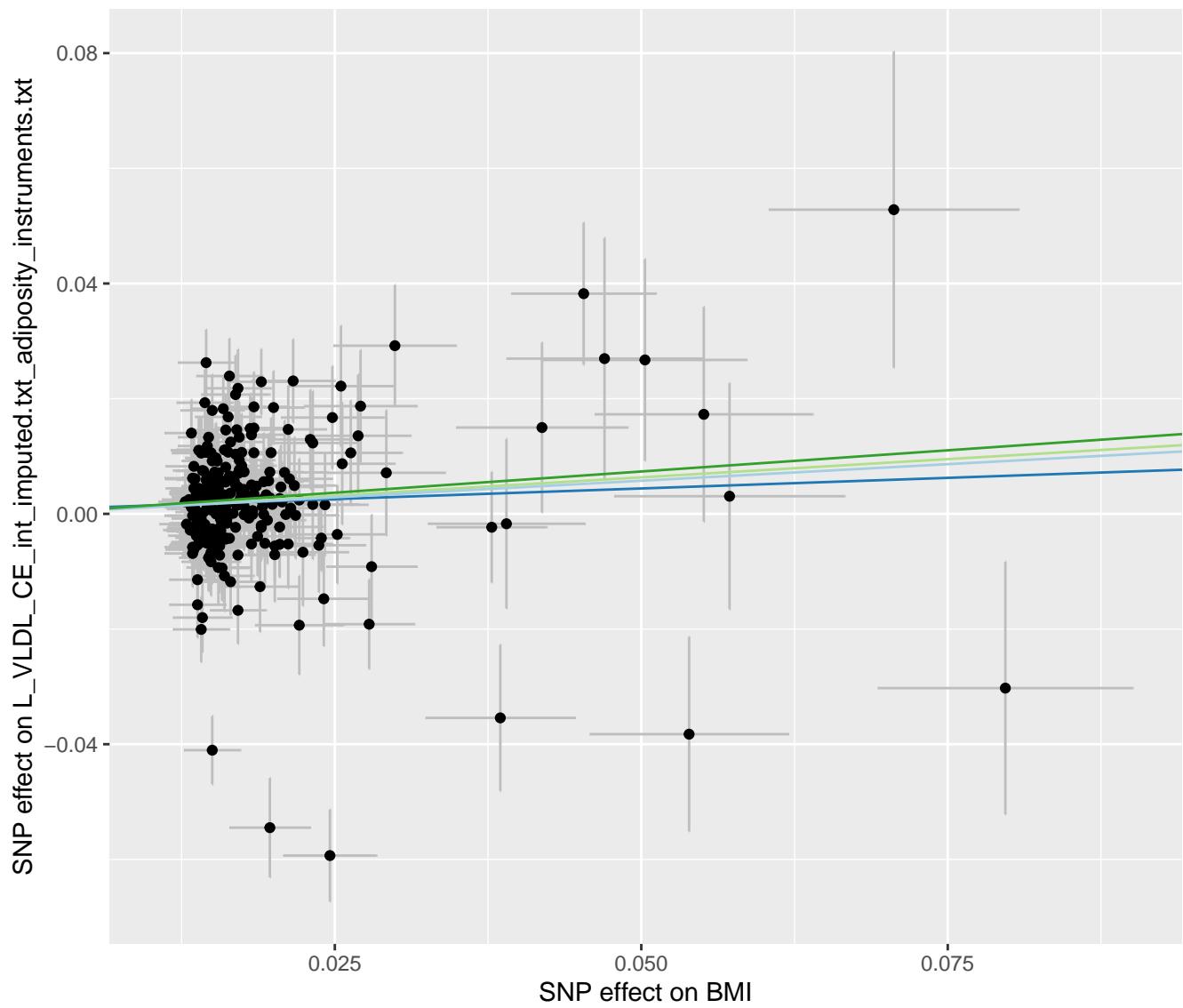
Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



## MR Test

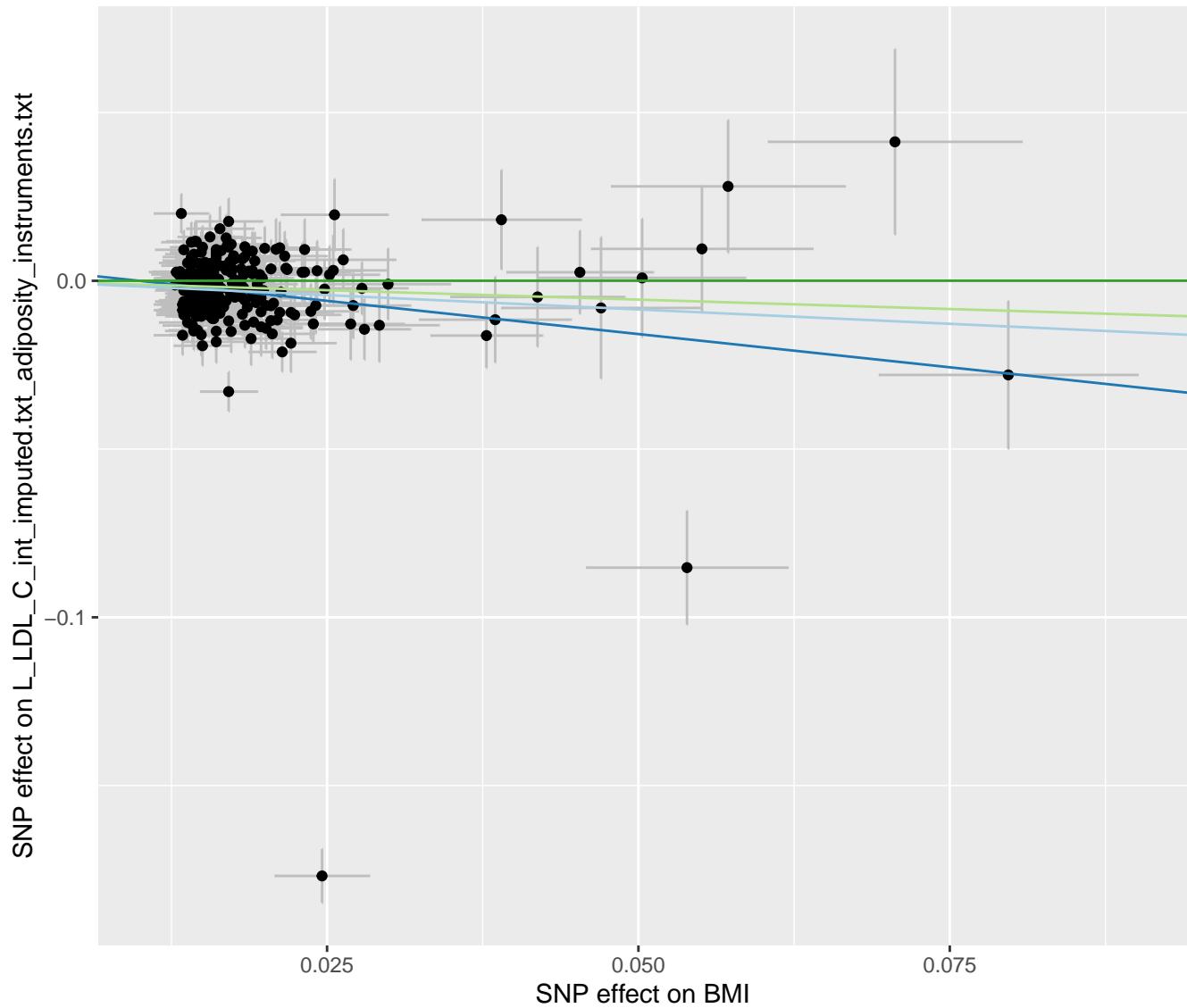
### Inverse variance weighted (multiplicative random effects)

MR Egger

11

## Weighted median

## Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on M\_LDL\_P\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

0.075

## MR Test



Inverse variance weighted (multiplicative random effects)



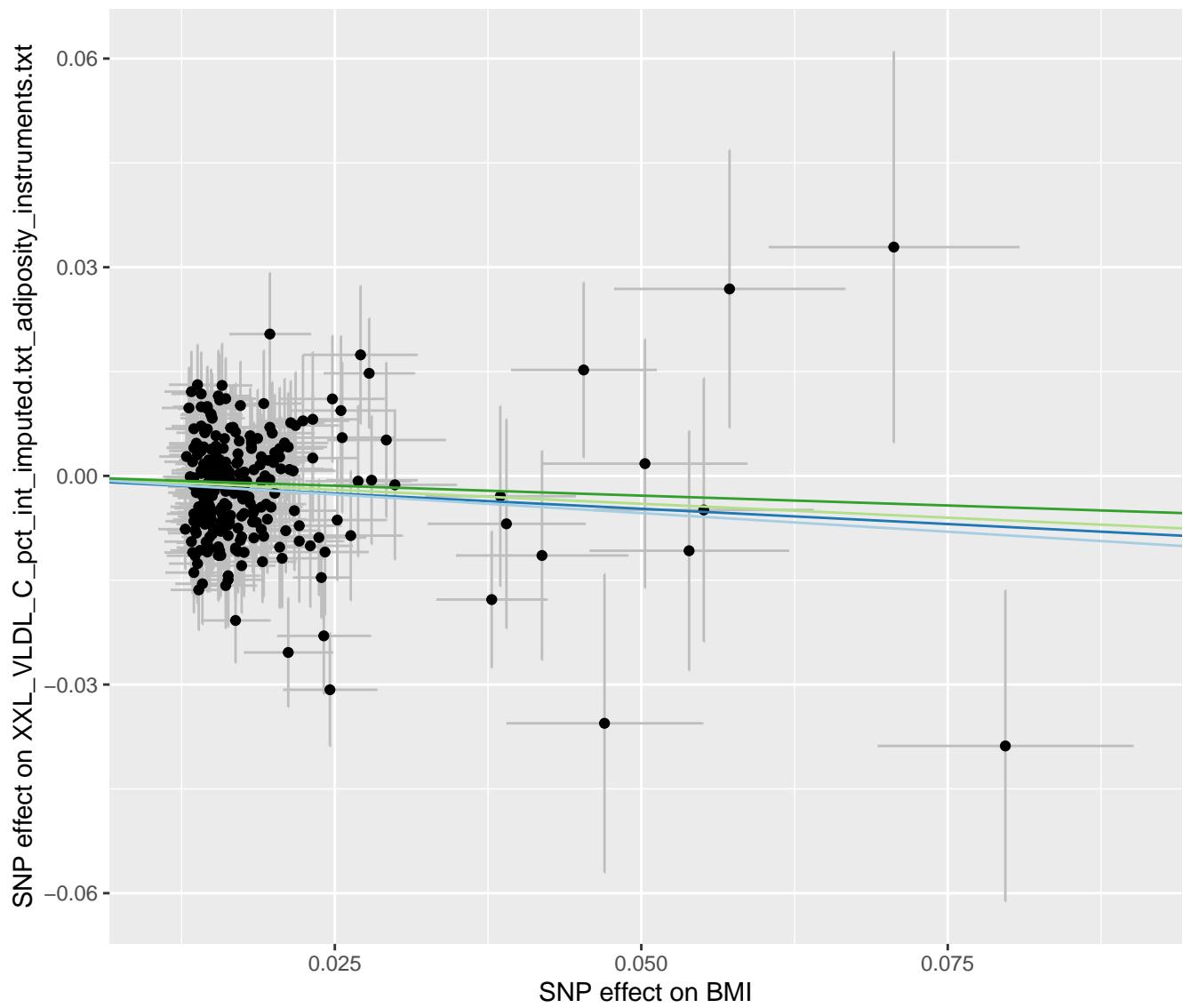
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on IDL\_C\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

0.075

## MR Test



Inverse variance weighted (multiplicative random effects)



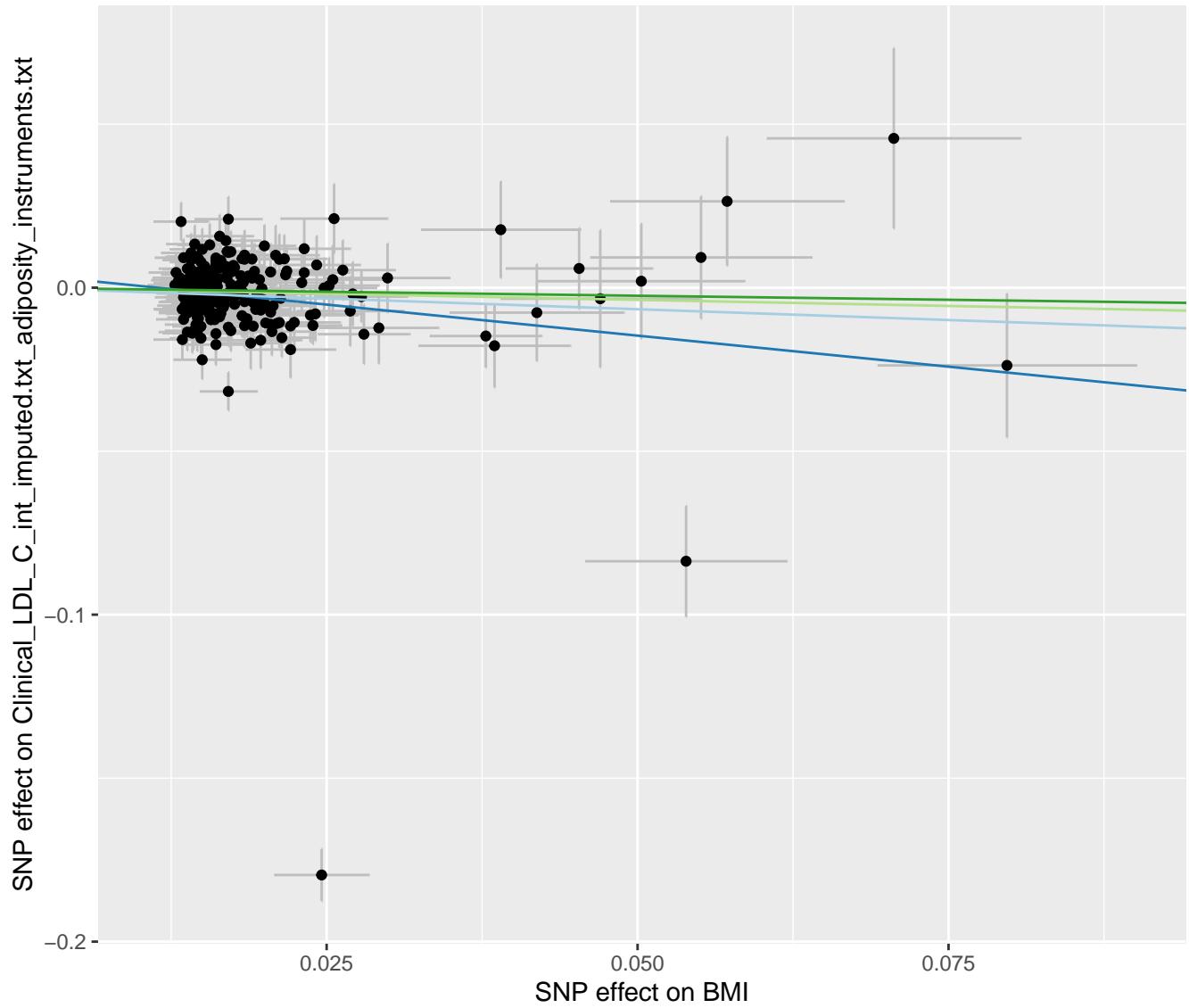
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



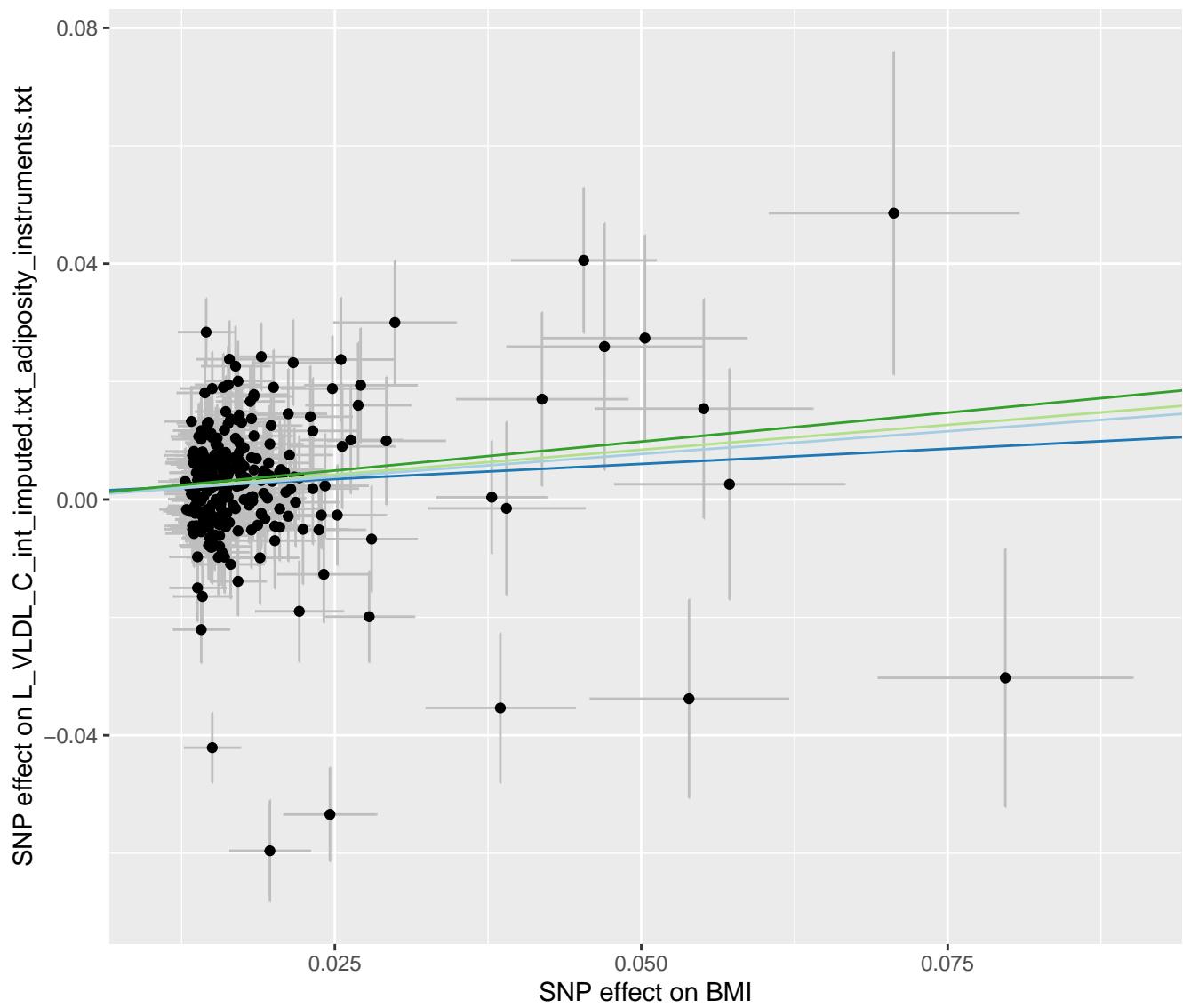
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



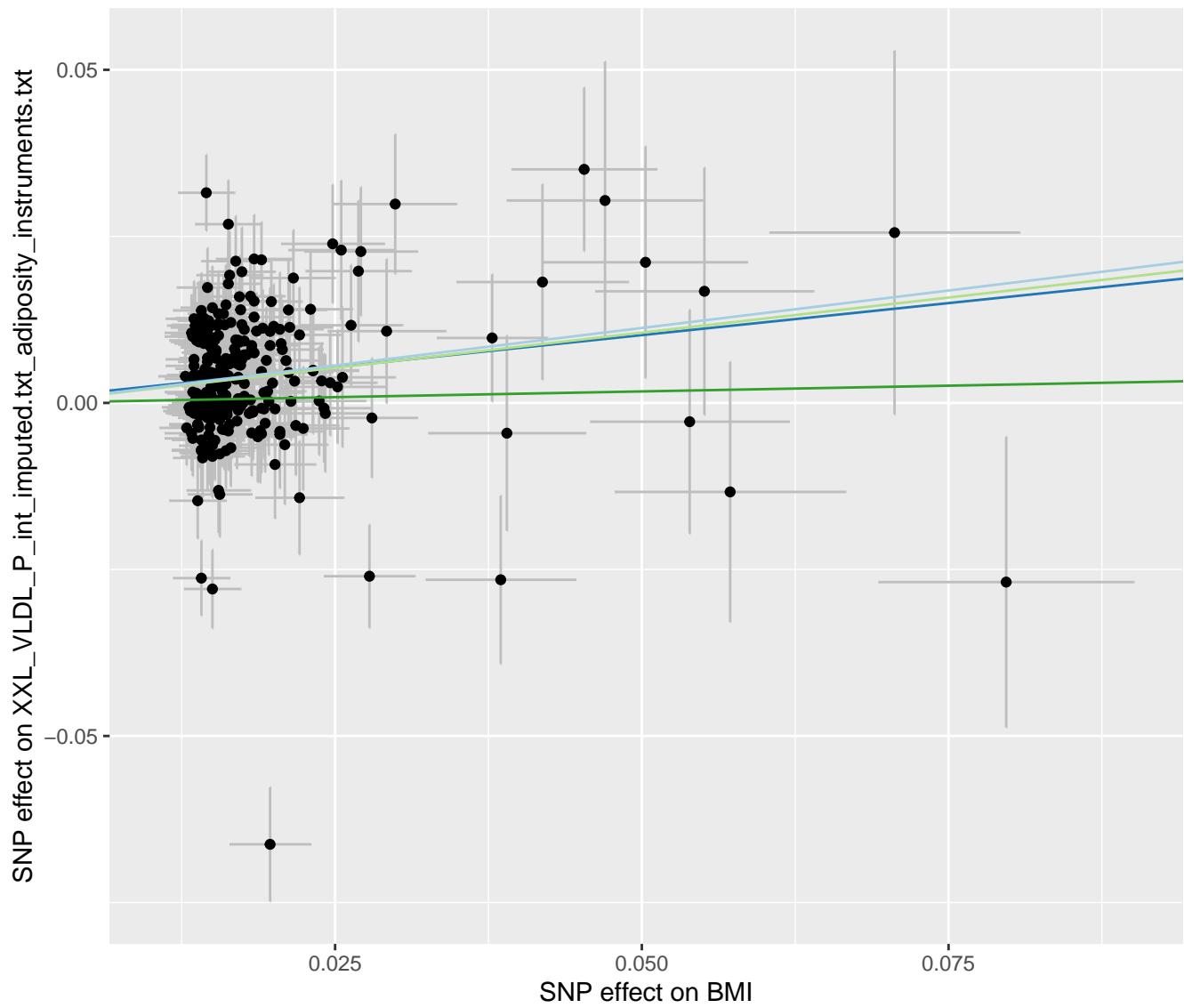
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



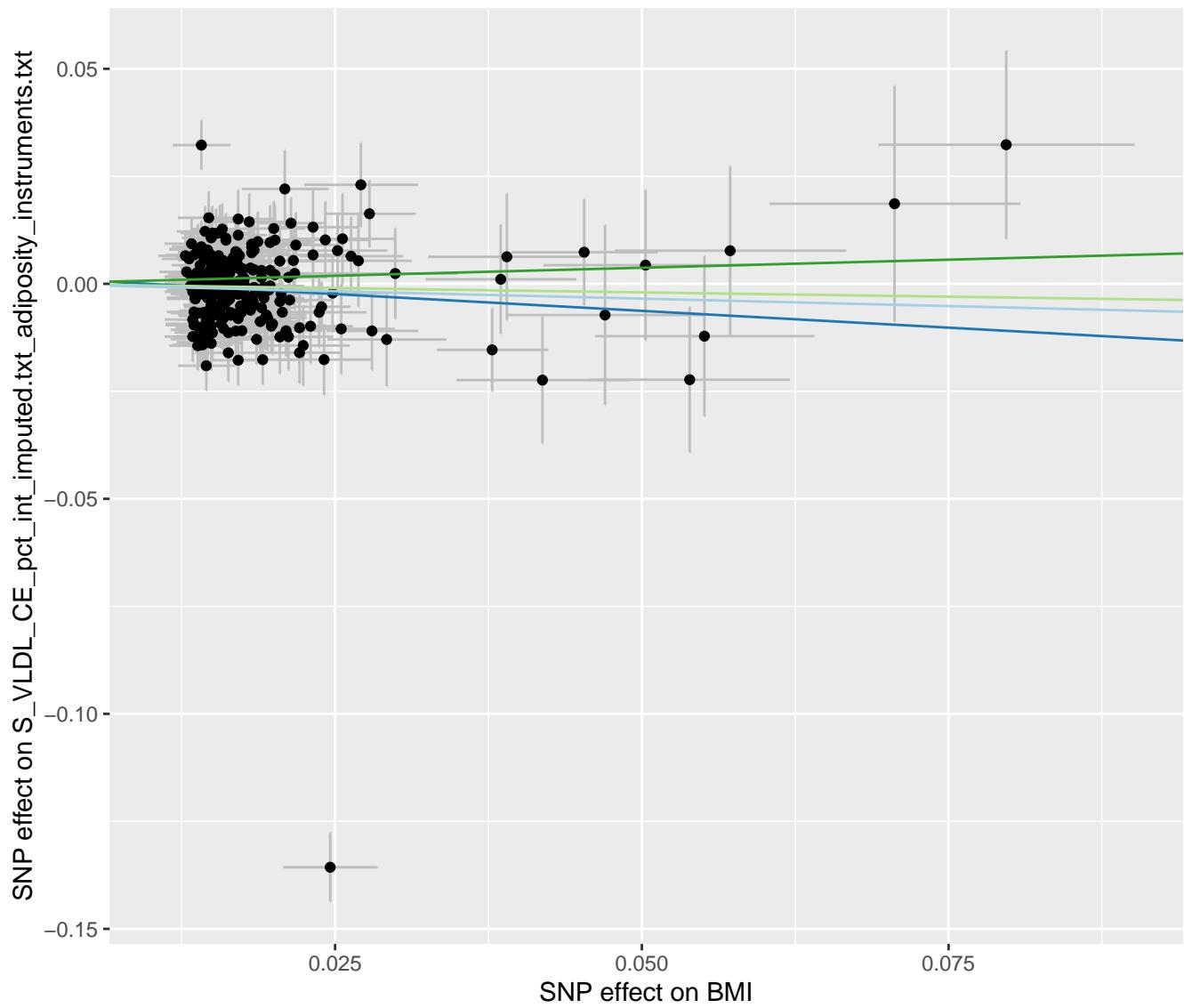
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



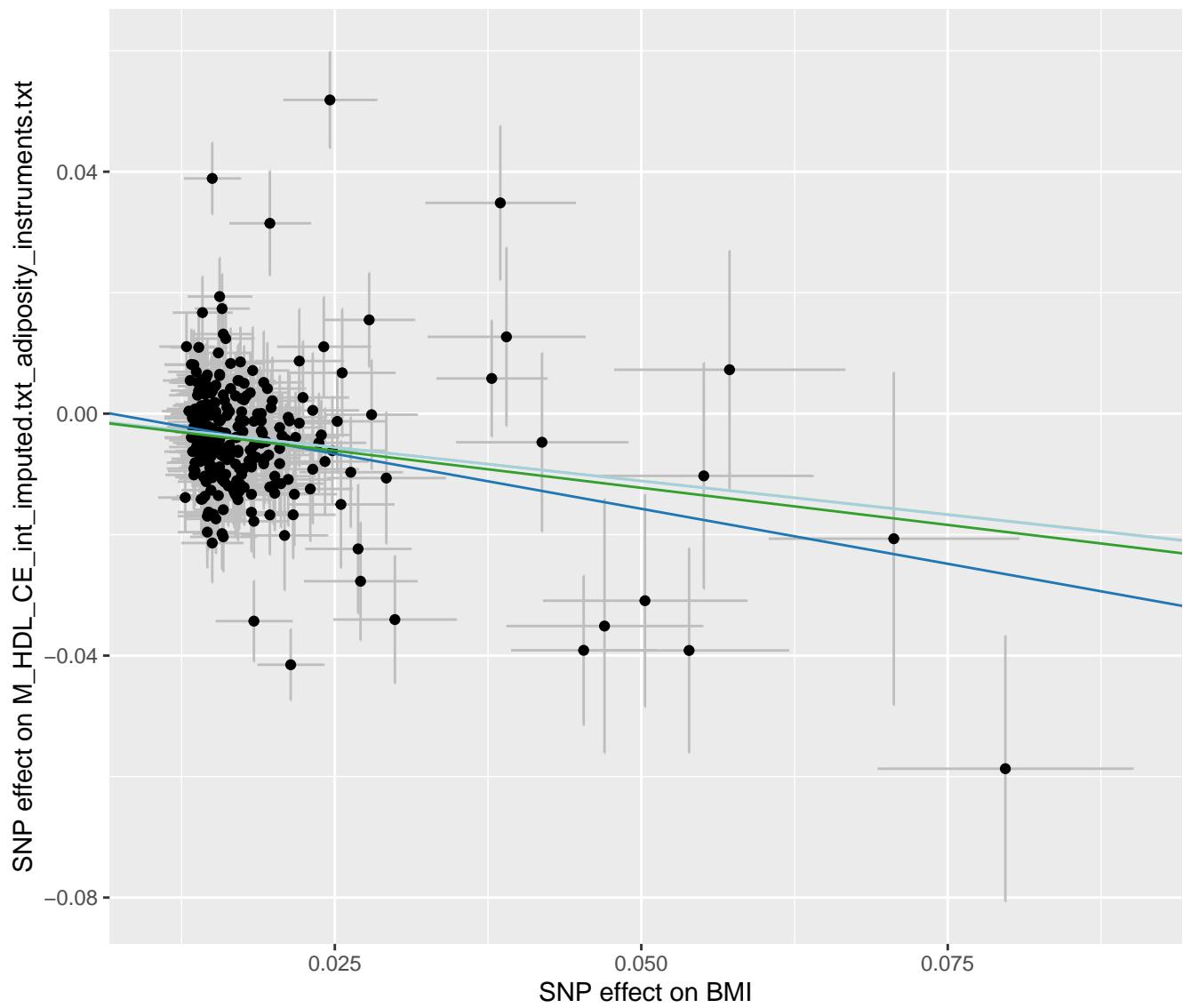
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

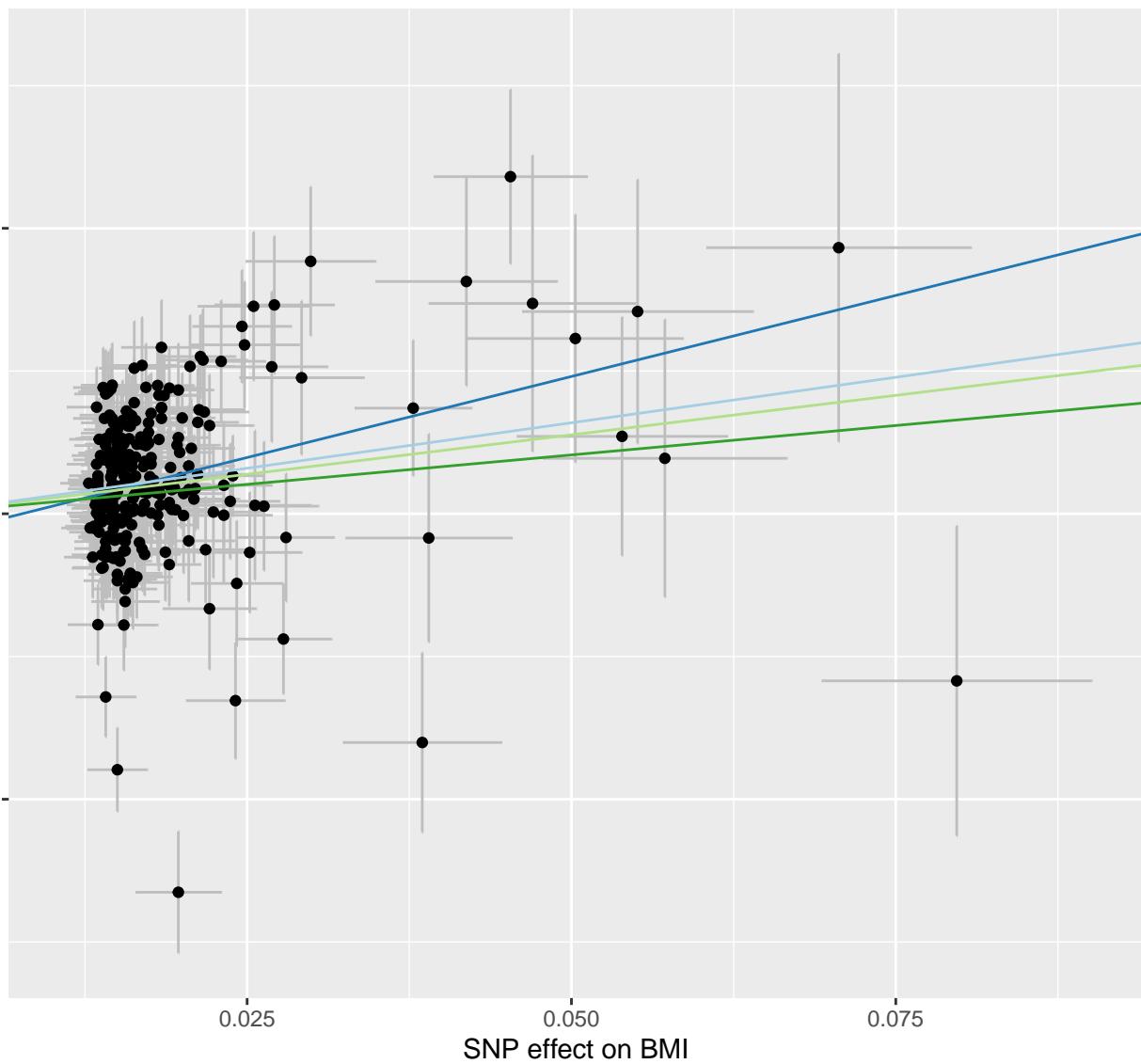


Weighted median



Weighted mode

SNP effect on L\_HDL\_TG\_pct\_int\_imputed.txt\_adiposity\_instruments.txt



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

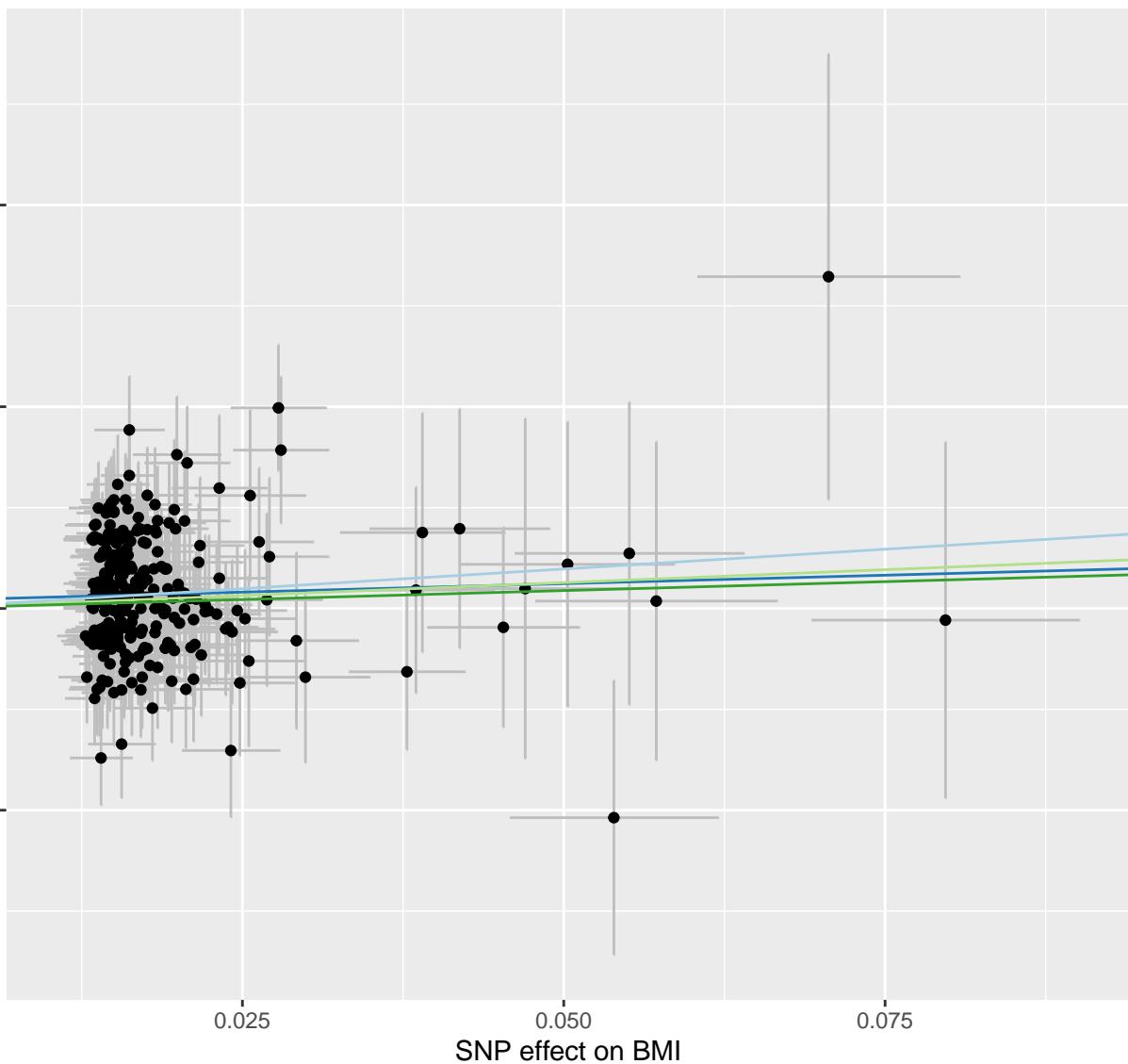


Weighted median



Weighted mode

SNP effect on Pyruvate\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



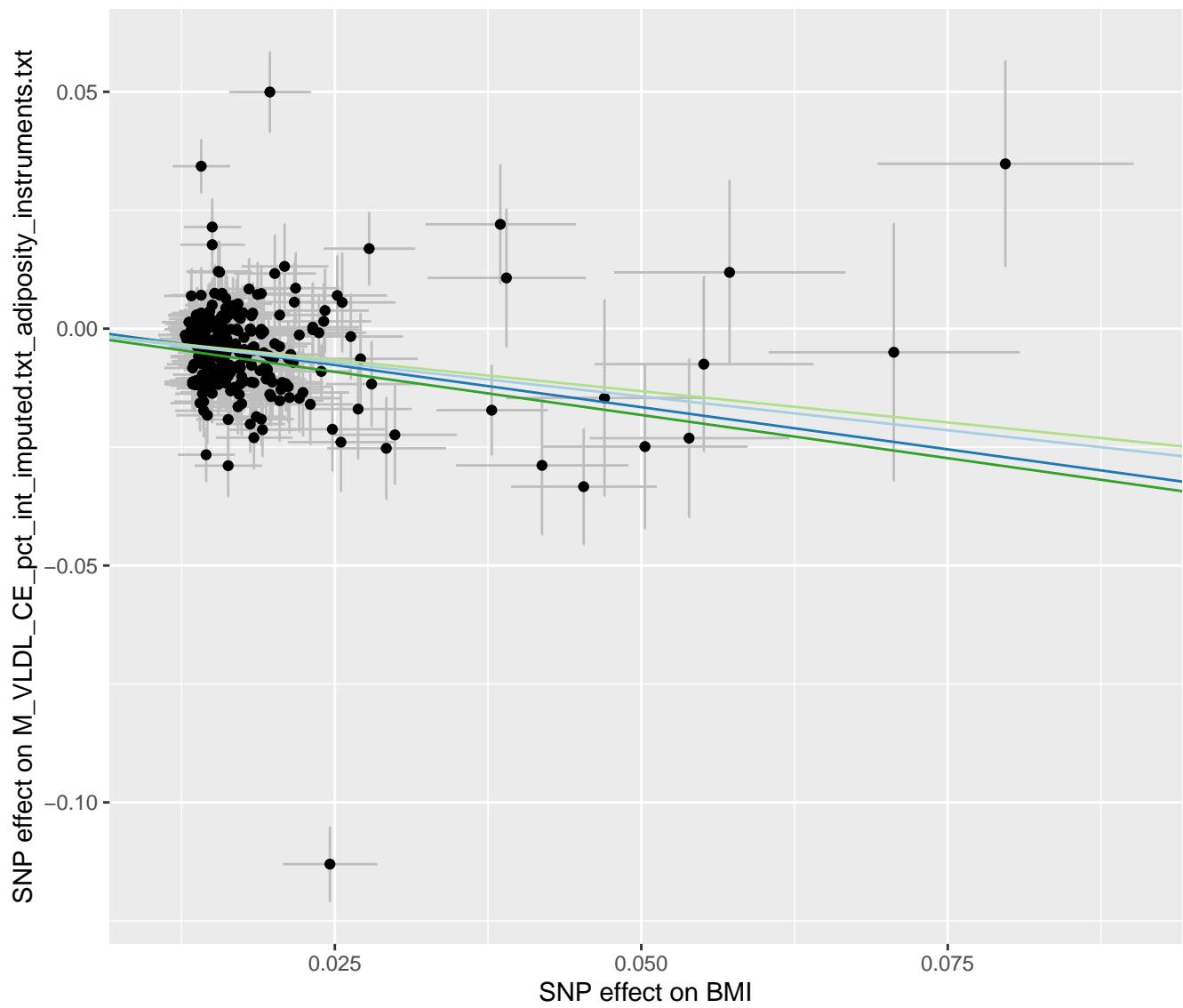
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



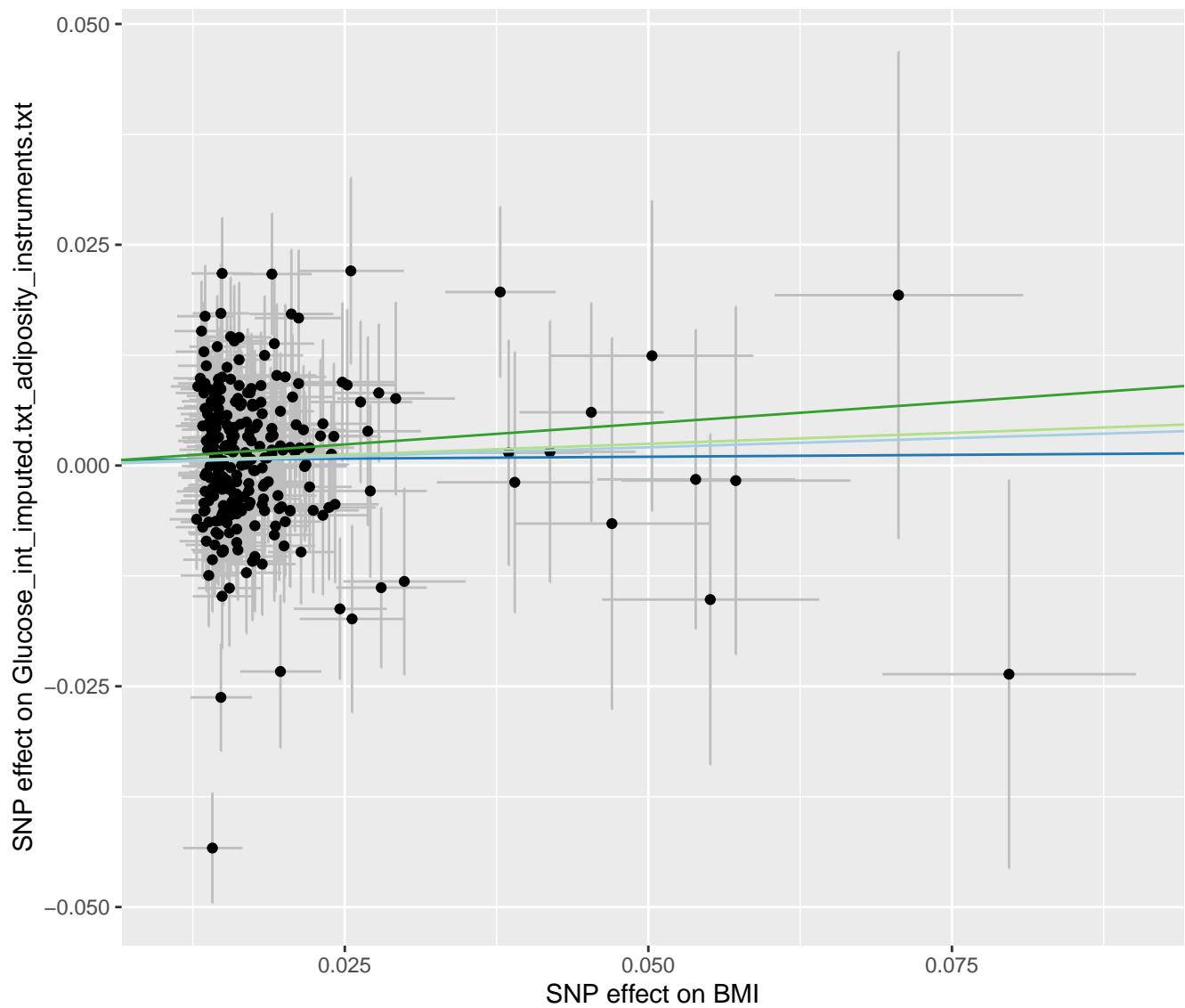
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

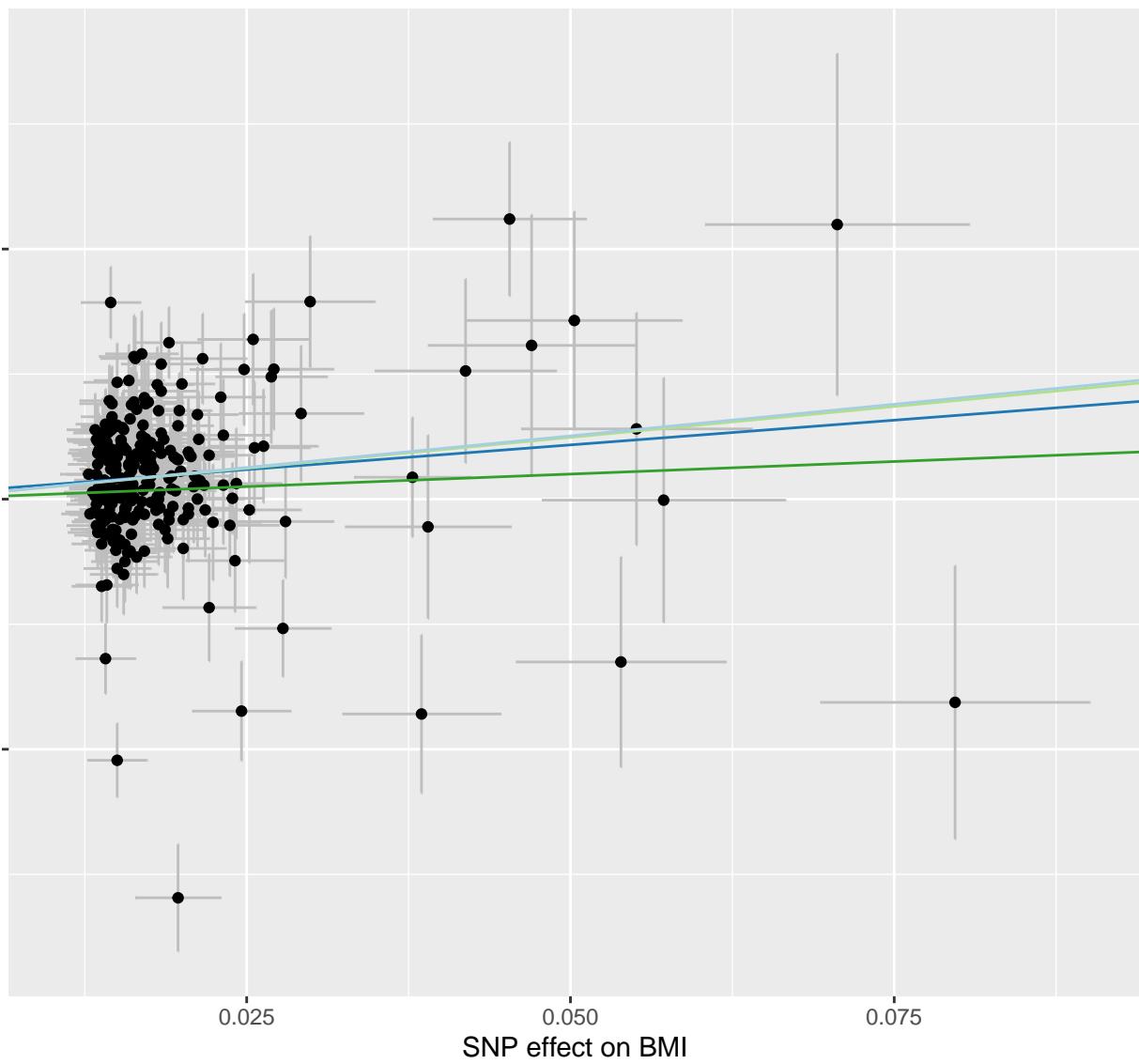


Weighted median



Weighted mode

SNP effect on L\_VLDL\_PL\_int\_imputed.txt\_adiposity\_instruments.txt



MR Test

10

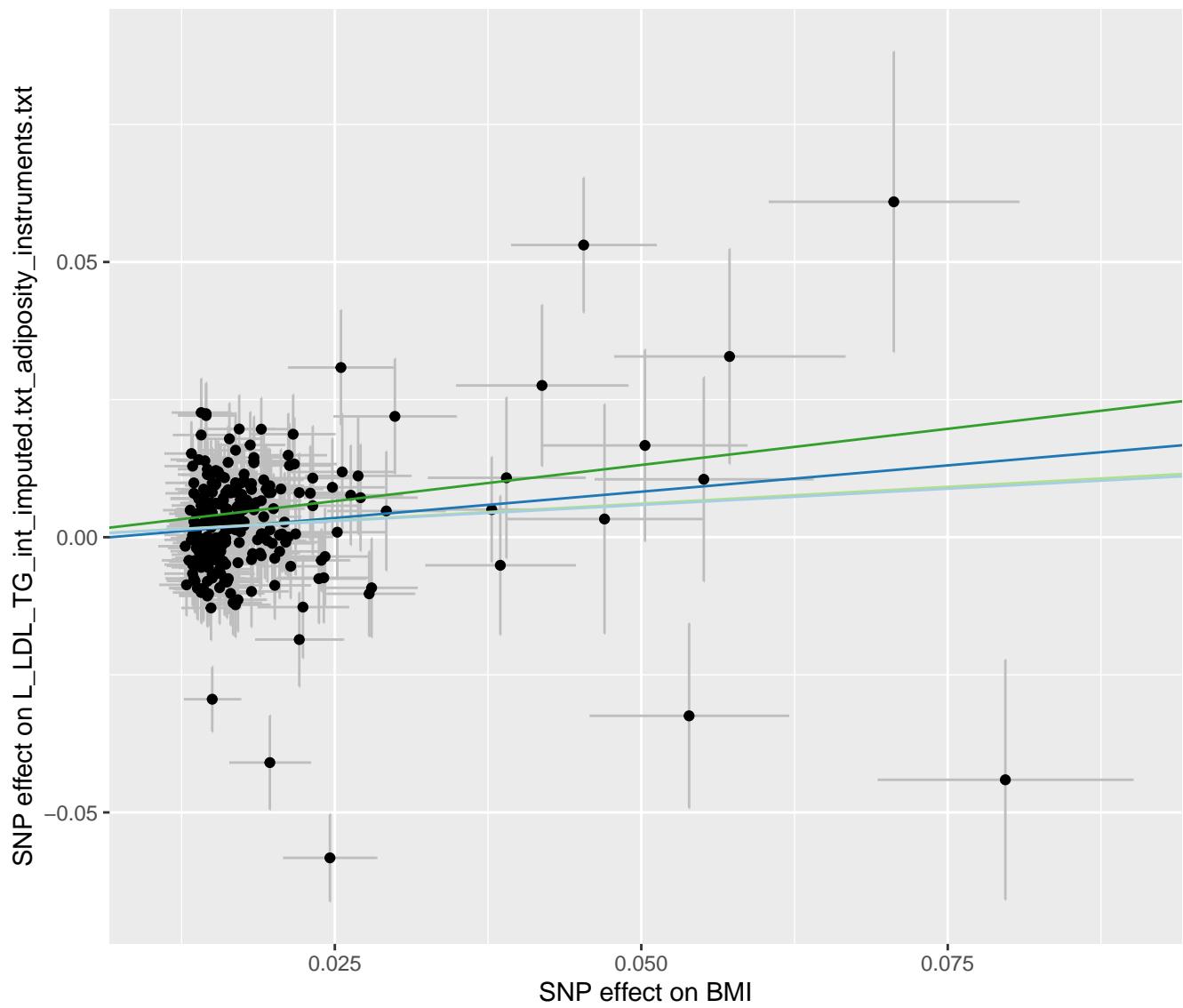
### Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



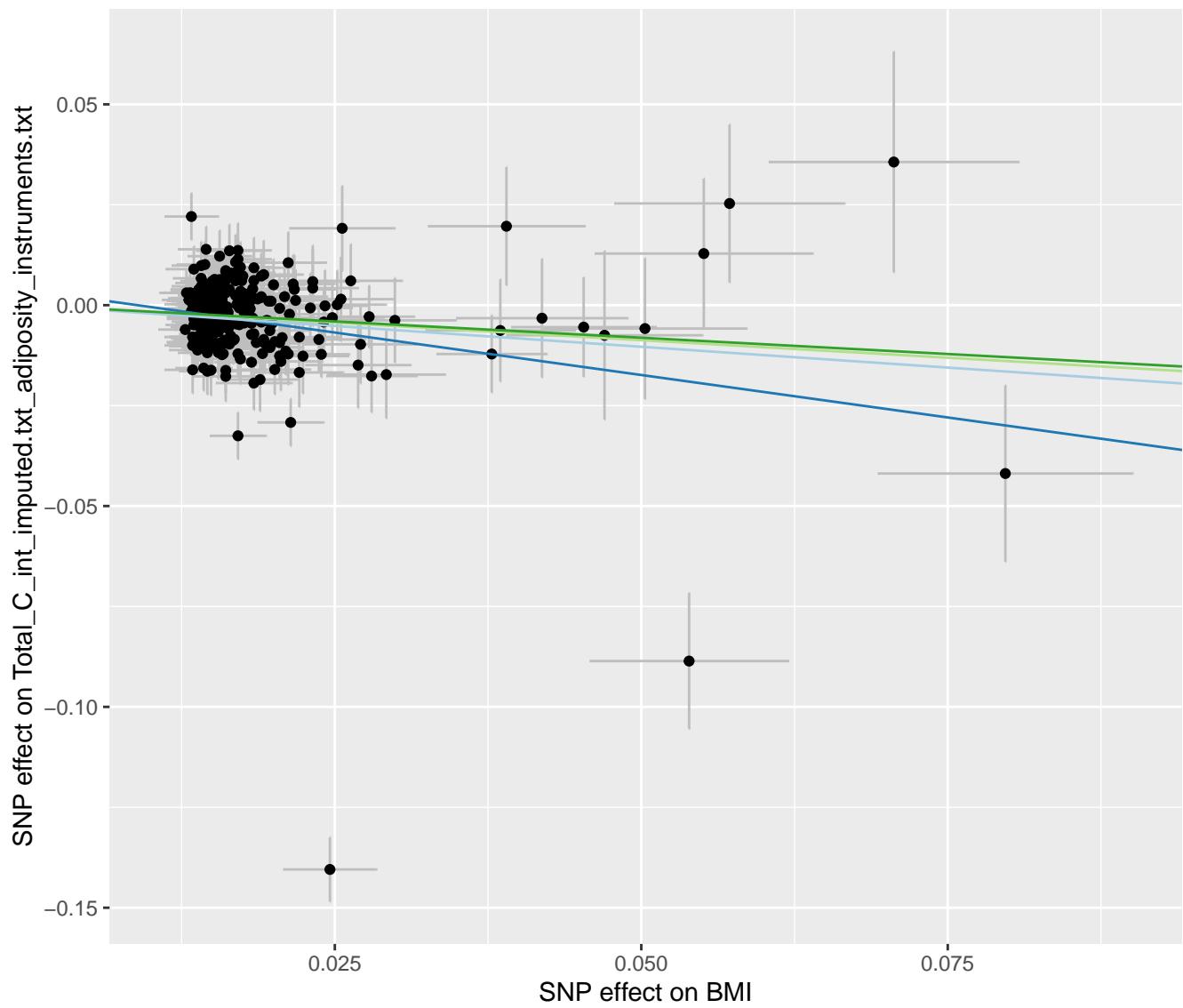
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on Total\_FC\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

-0.15

-0.10

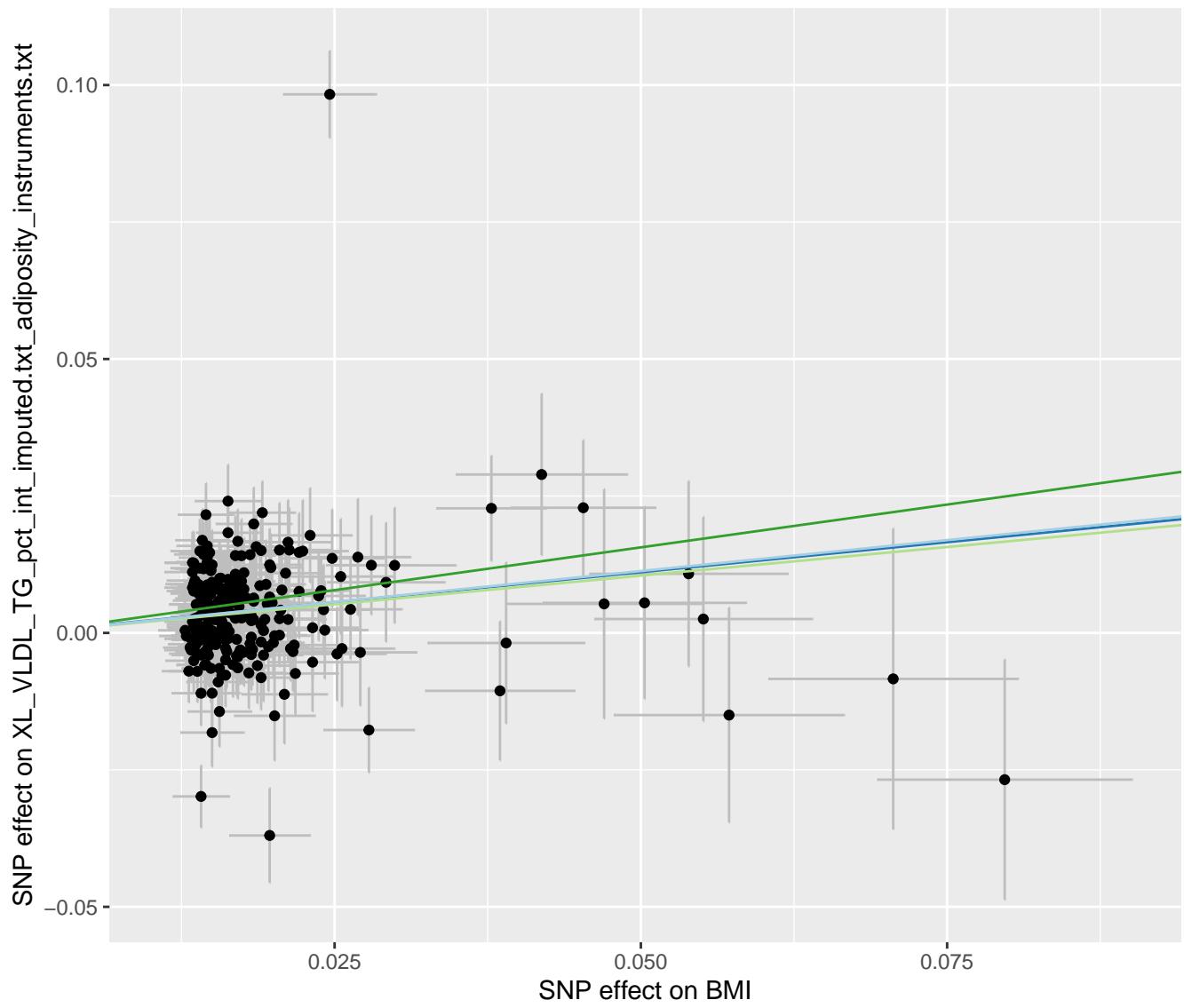
-0.05

0.05

0.05 0.10 0.15 0.20 0.25 0.30 0.35 0.40 0.45 0.50 0.55 0.60 0.65 0.70 0.75 0.80

### MR Test

 Inverse variance weighted (multiplicative random effects)  
 MR Egger  
 Weighted median  
 Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

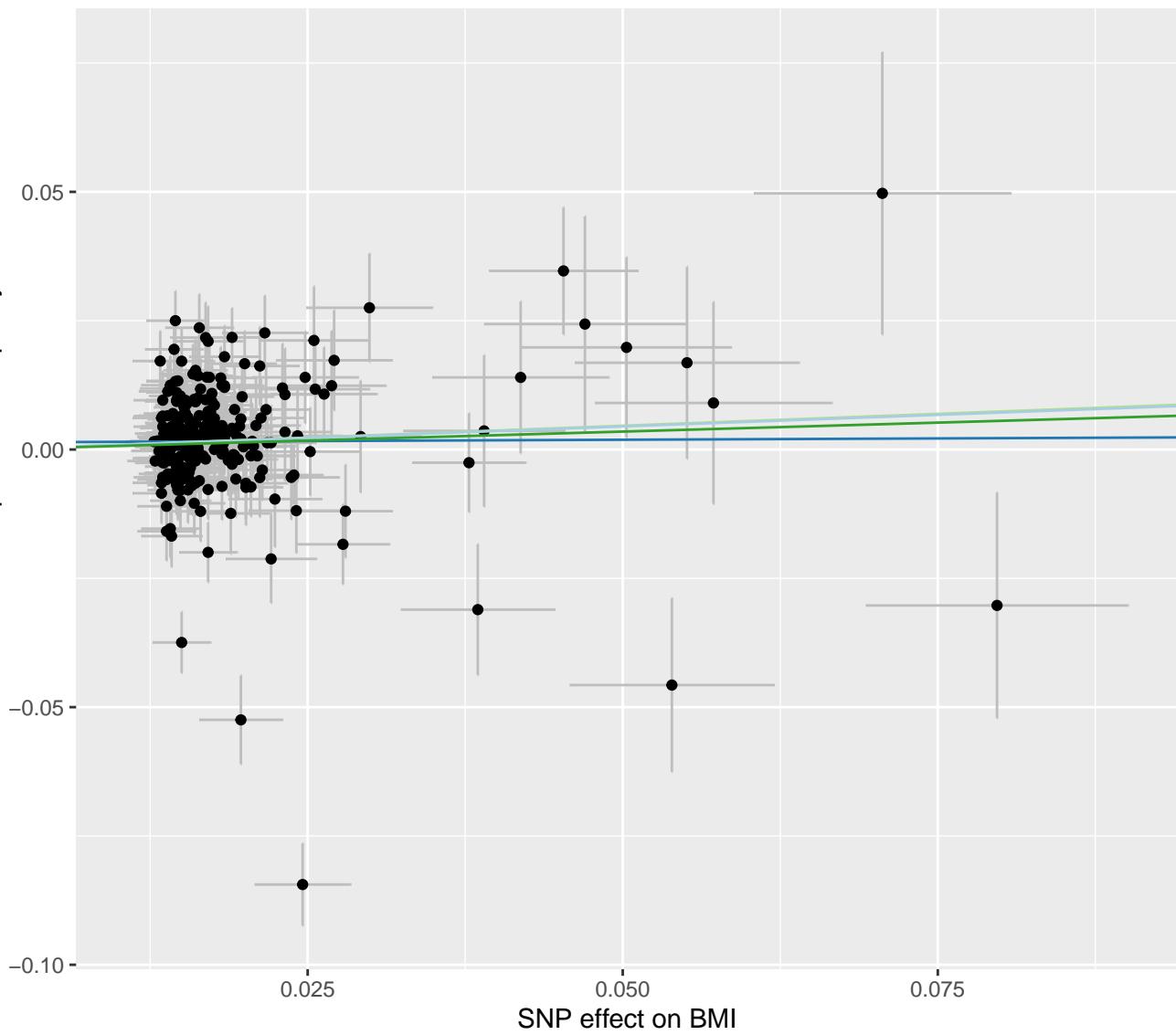


Weighted median



Weighted mode

SNP effect on VLDL\_FC\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

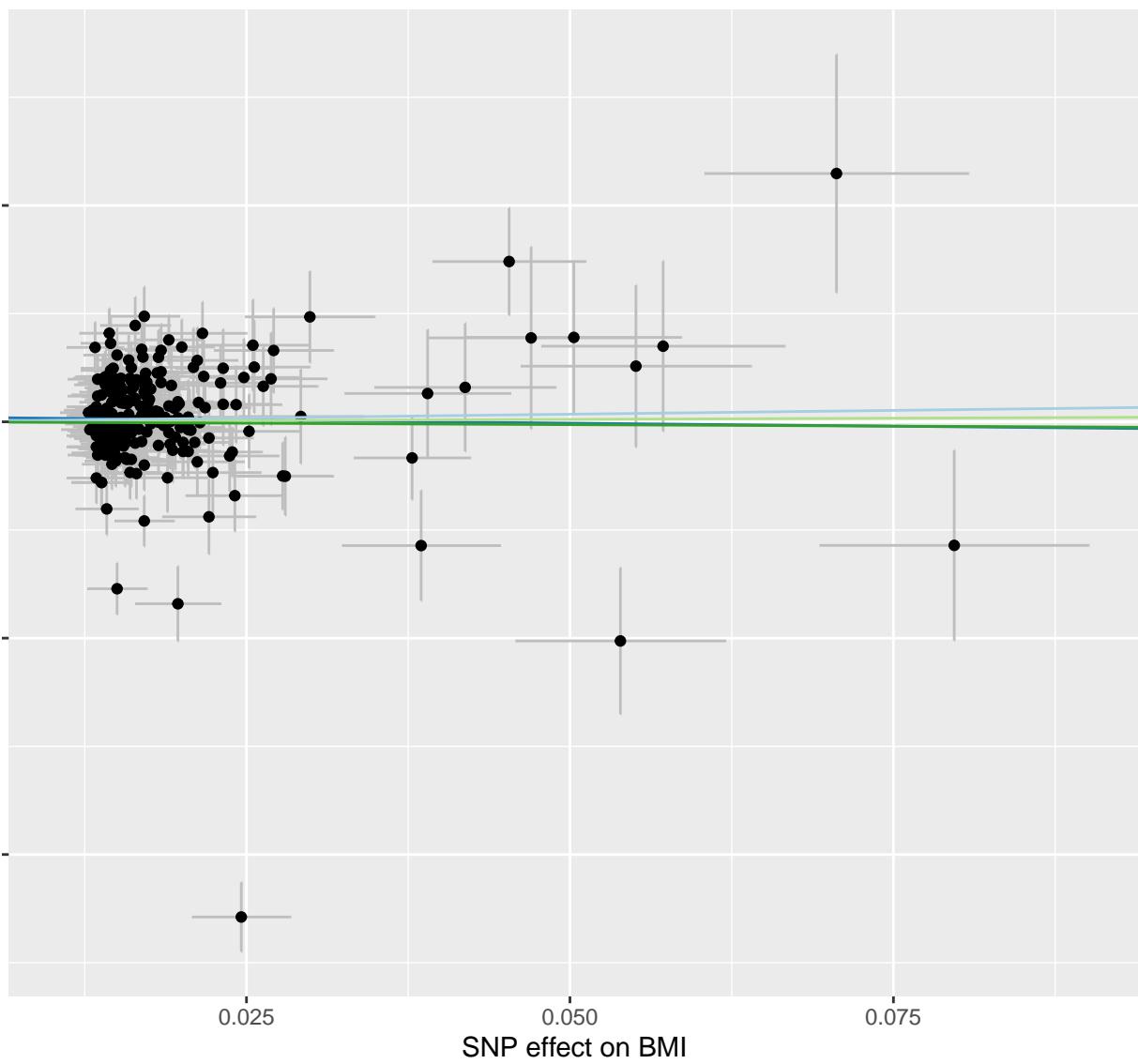


Weighted median



Weighted mode

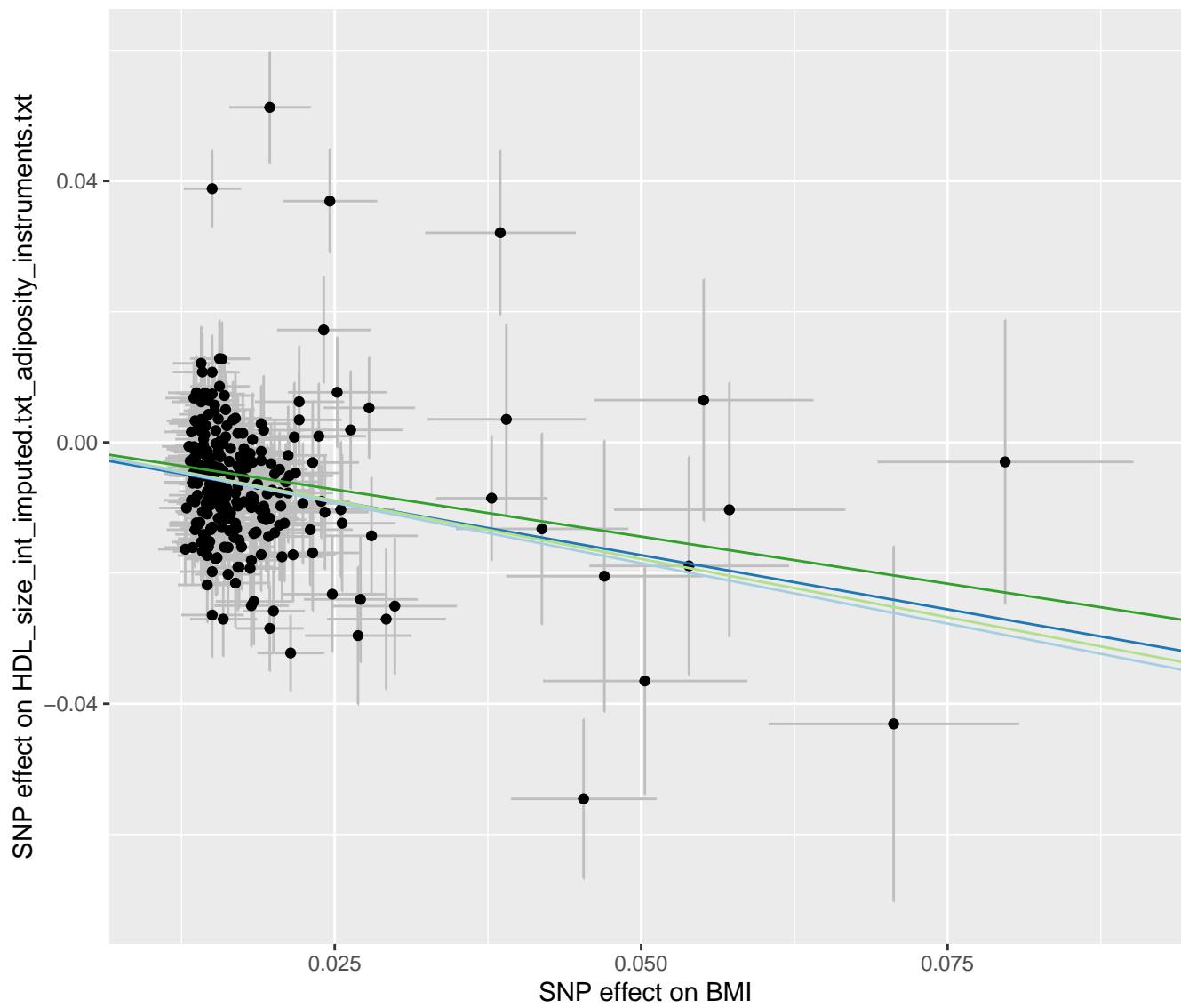
SNP effect on S\_VLDL\_C\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test

Inverse variance 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 M\_VLDL\_L\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

0.05

0.00

-0.05

-0.10

### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



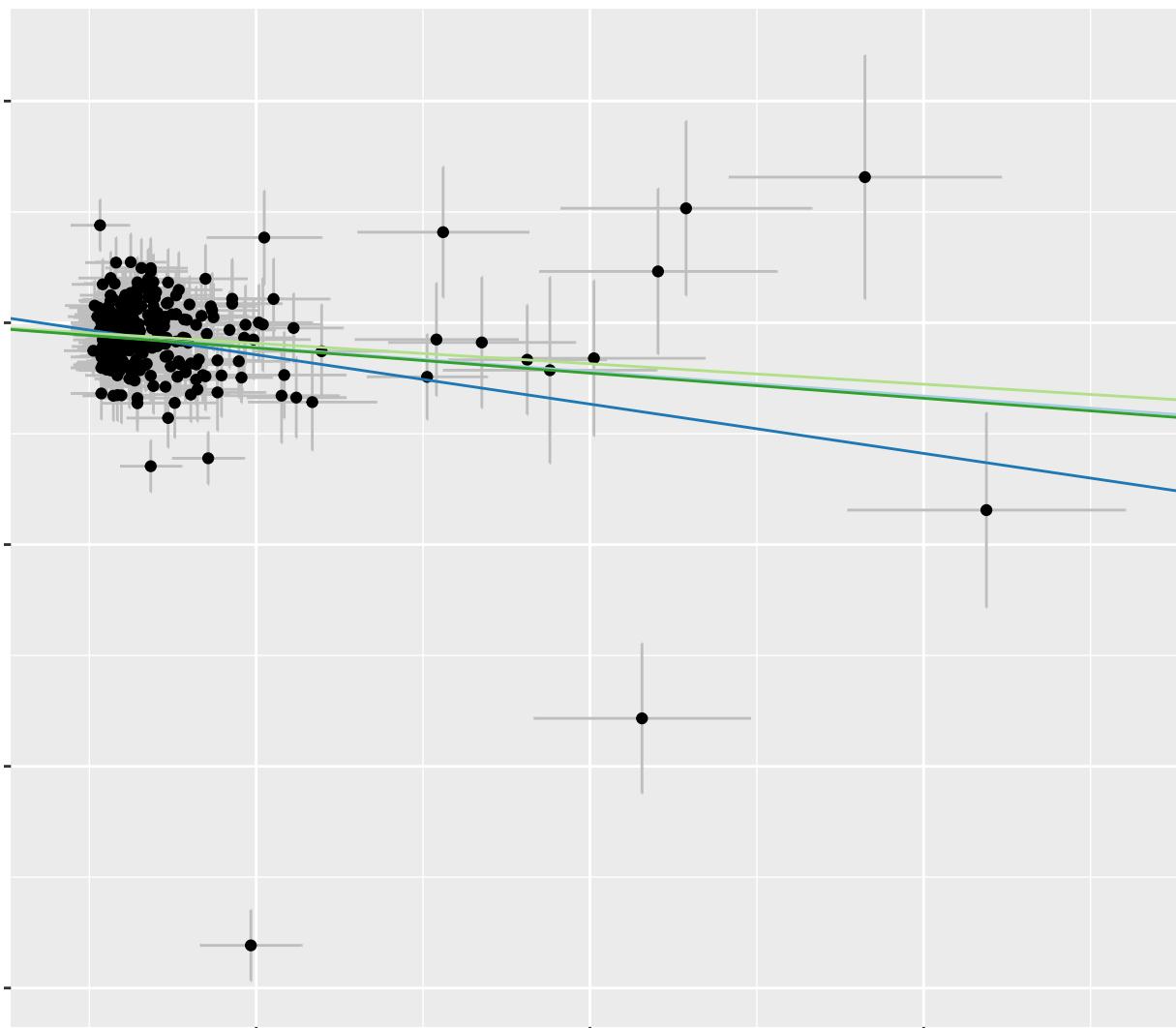
Weighted median



Weighted mode

SNP effect on Total\_CE\_int\_imputed.txt\_adiposity\_instruments.txt

SNP effect on BMI



MR Test

10

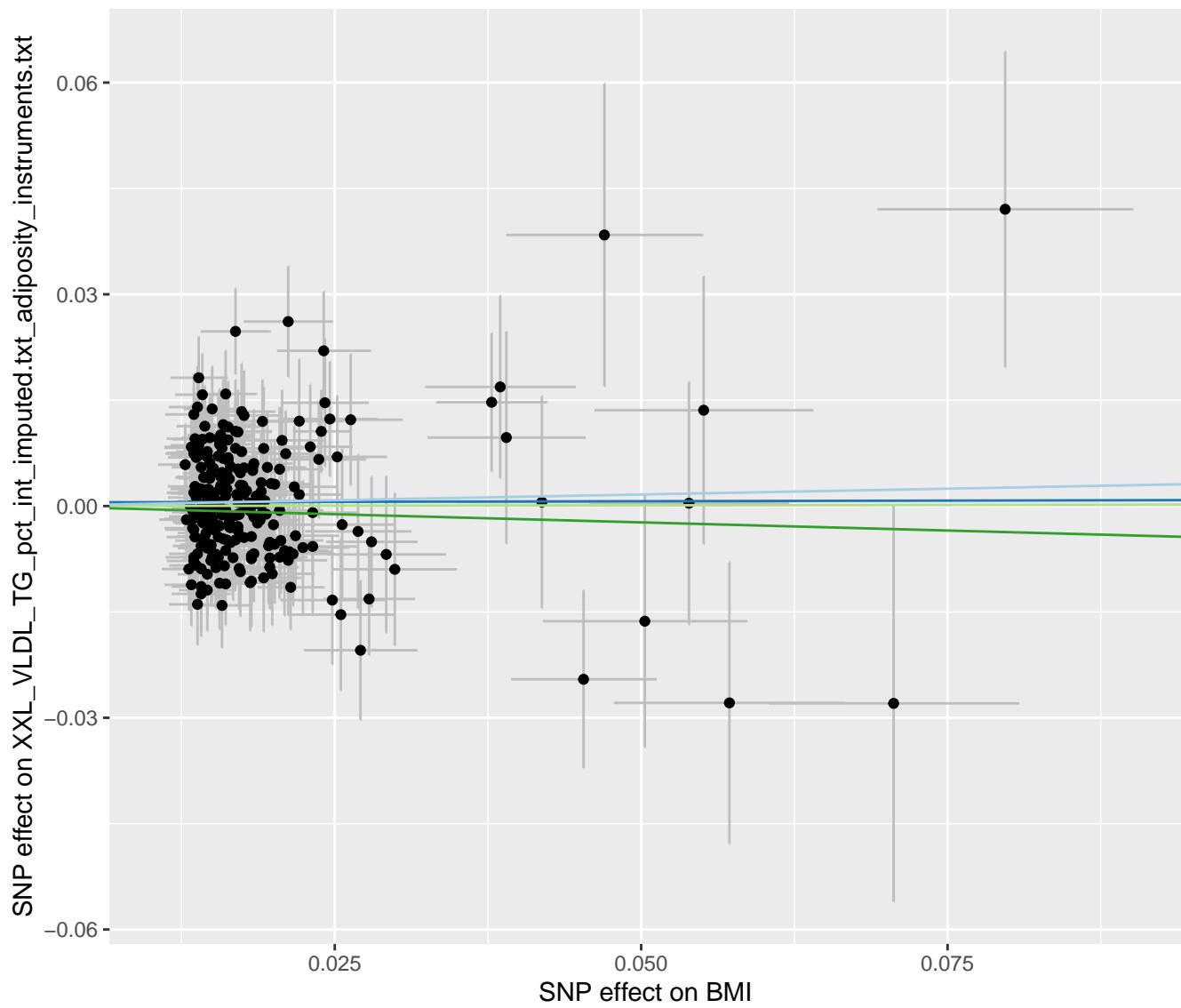
### Inverse variance weighted (multiplicative random effects)

MR Egger

10 of 10

## Weighted median

## Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



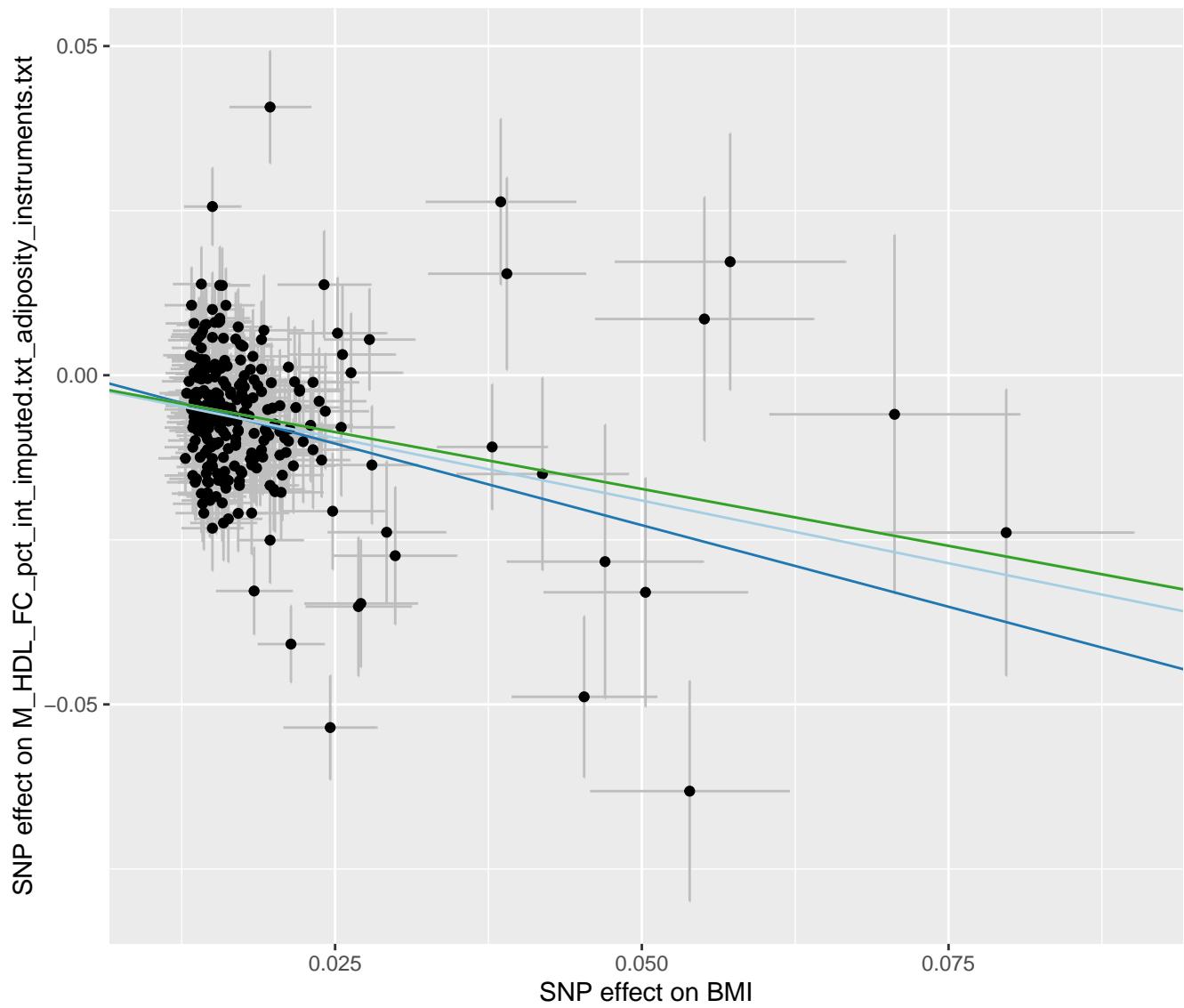
MR Egger



Weighted median



Weighted mode



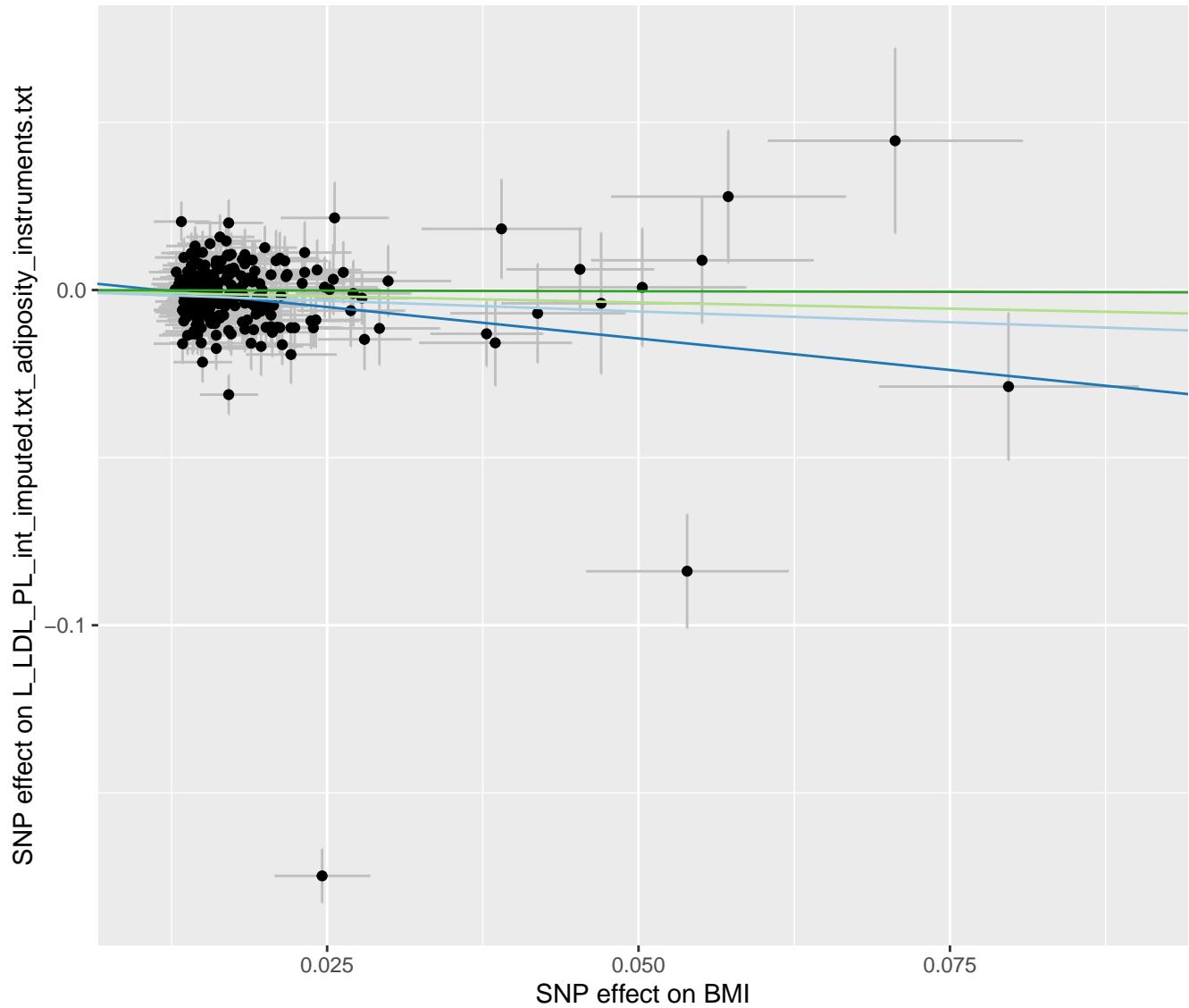
## MR Test

Inverse variance weighted (multiplicative random effects)

MR Egger

## Weighted median

## Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



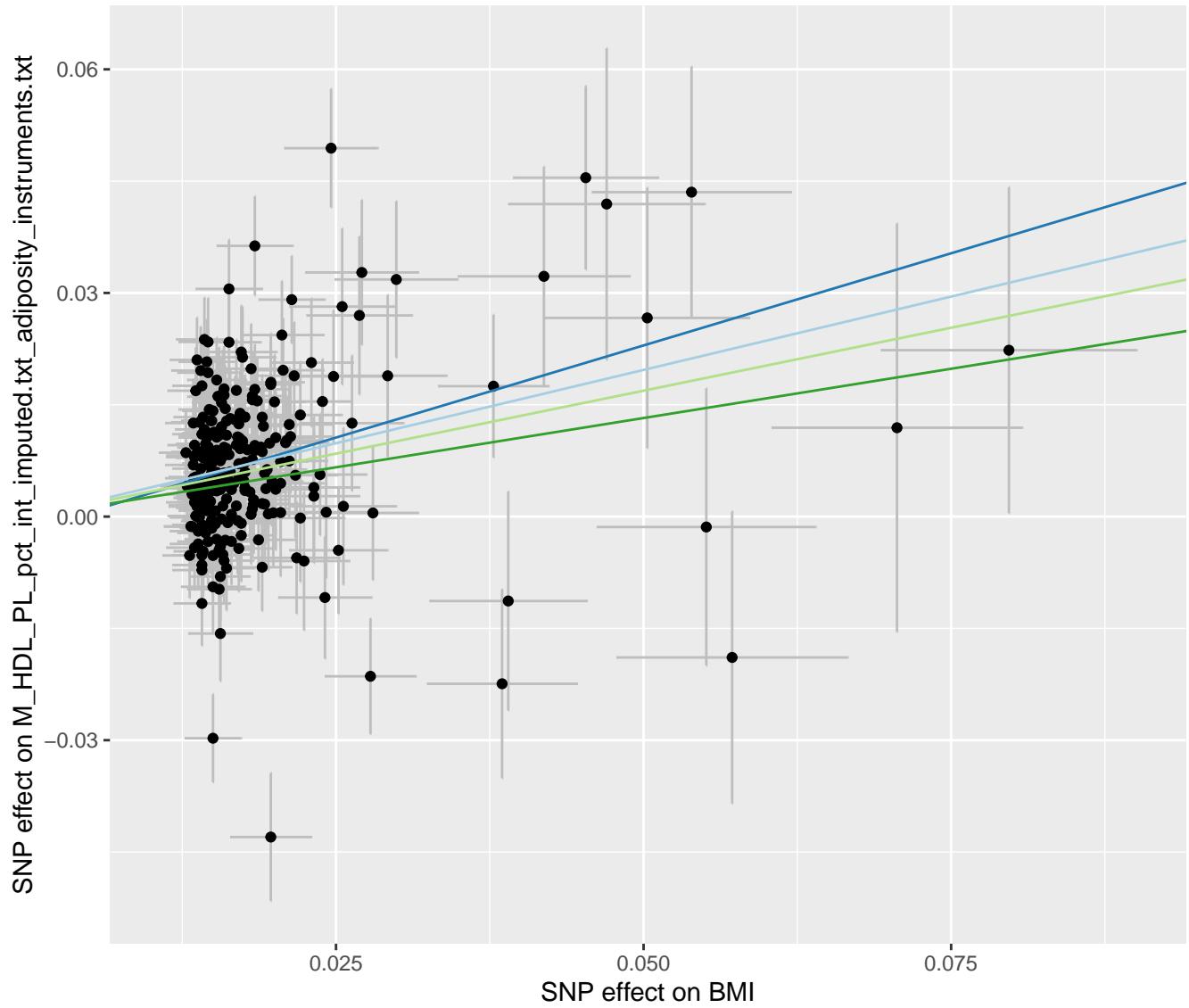
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



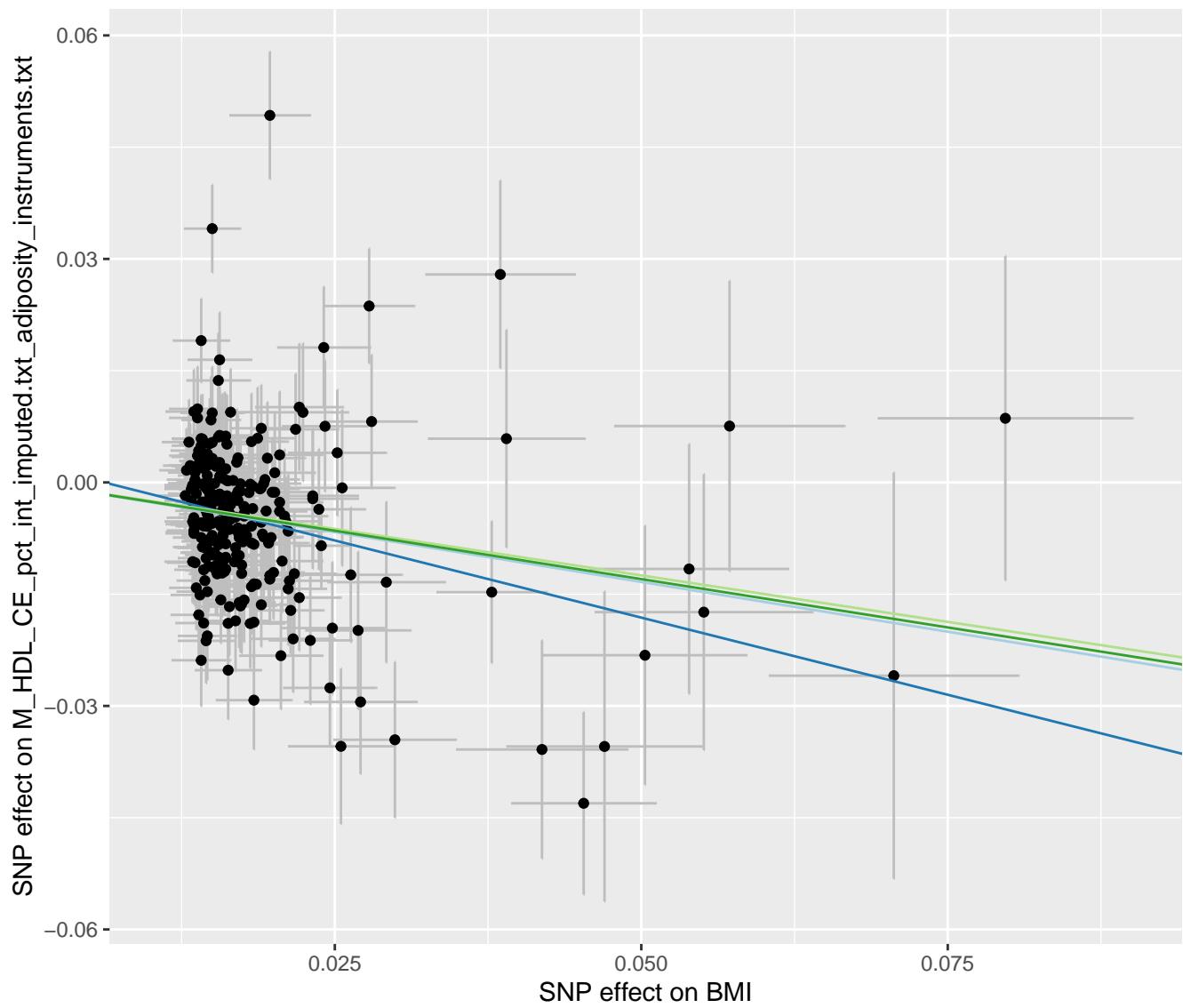
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



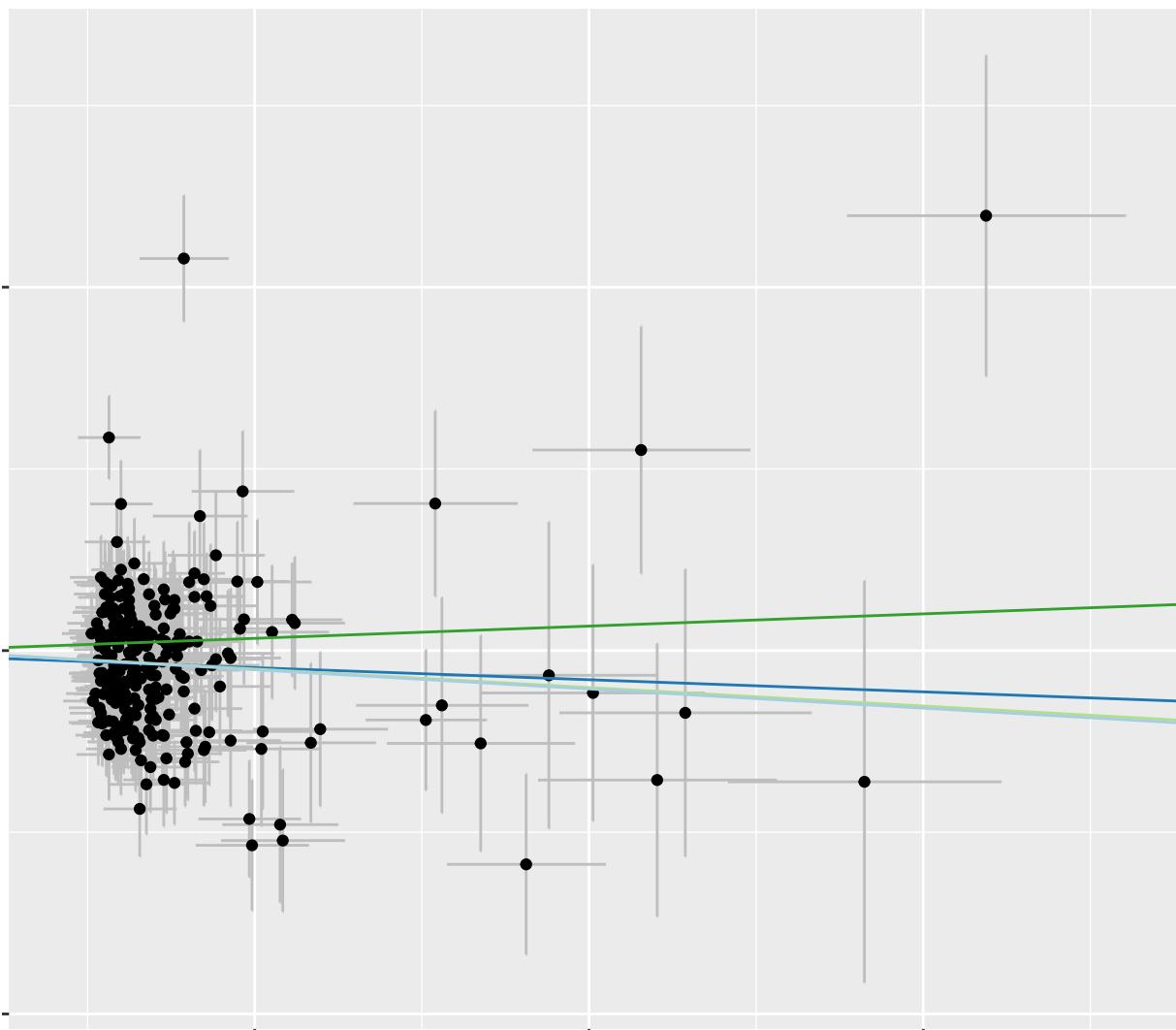
Weighted median



Weighted mode

SNP effect on S\_LDL\_PL\_pct\_int\_imputed.txt\_adiposity\_instruments.txt

SNP effect on BMI



# MR Test



Inverse variance weighted (multiplicative random effects)



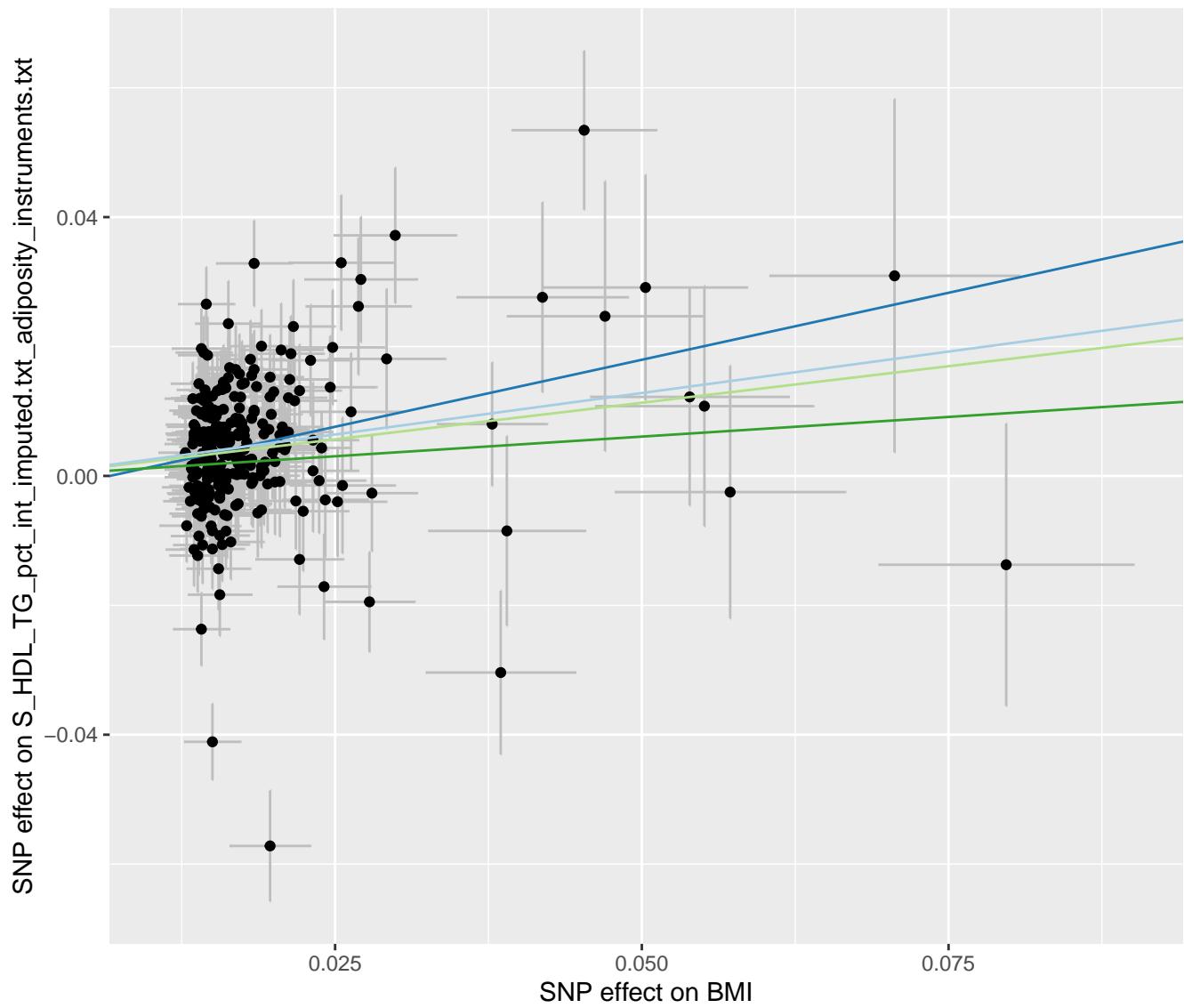
MR Egger



Weighted median



Weighted mode



## MR Test

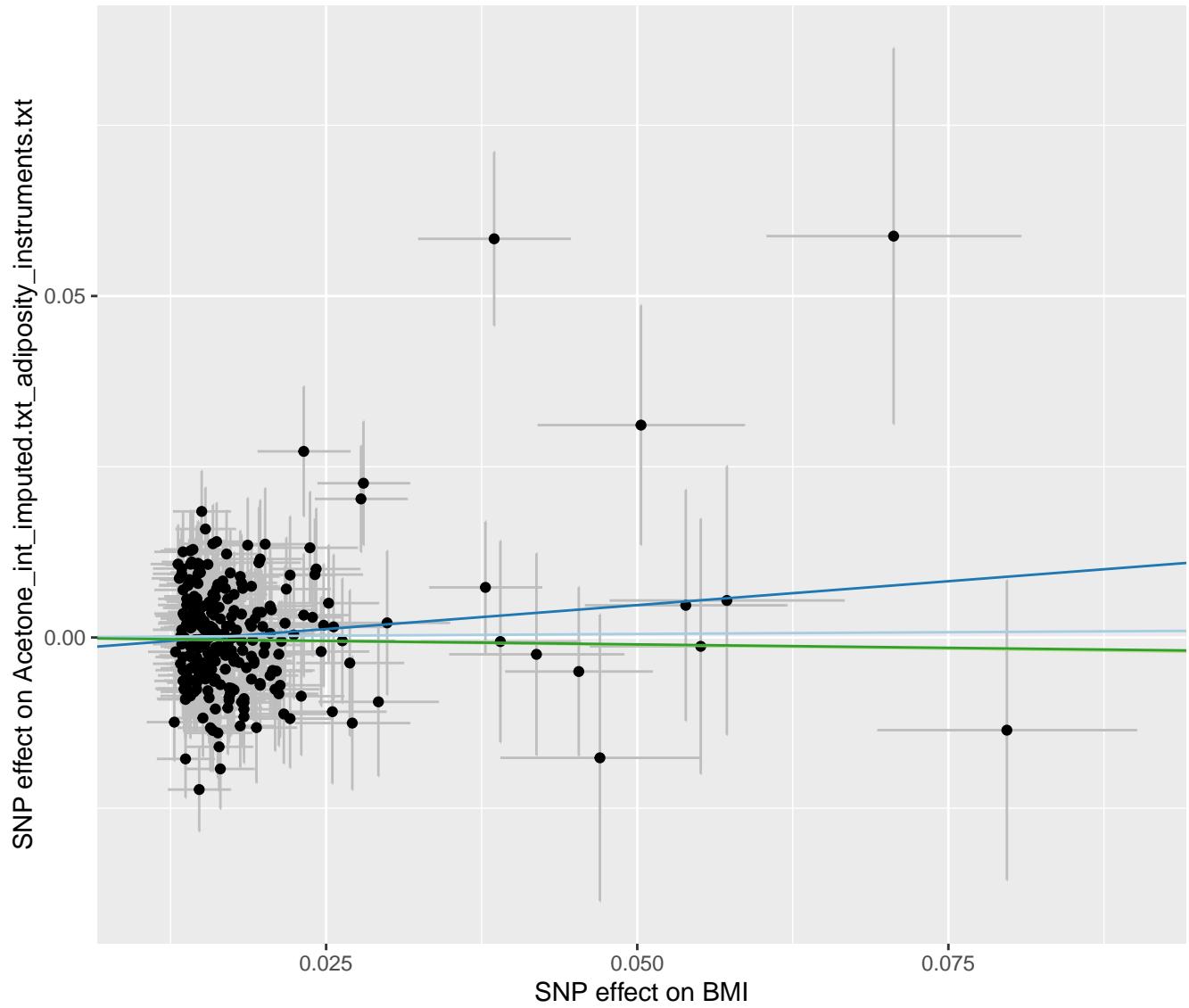
### Inverse variance weighted (multiplicative random effects)

MR Egger

A vertical gray rectangle containing two green diagonal lines. The top line is longer and has a lighter green shade, while the bottom line is shorter and has a darker green shade.

## Weighted median

## Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

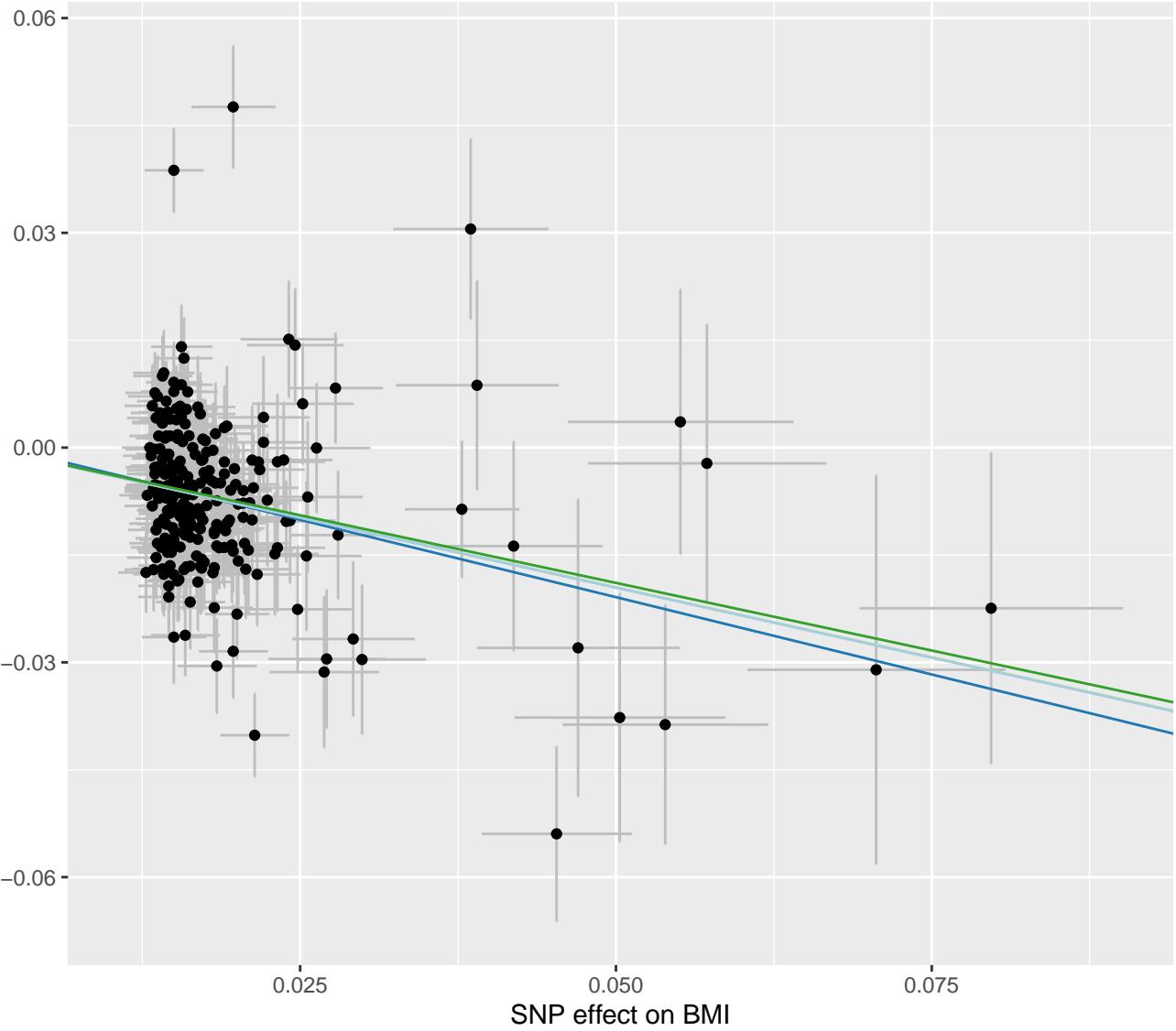


Weighted median



Weighted mode

SNP effect on L\_HDL\_P\_int\_imputed.txt\_adiposity\_instruments.txt



MR Test

10

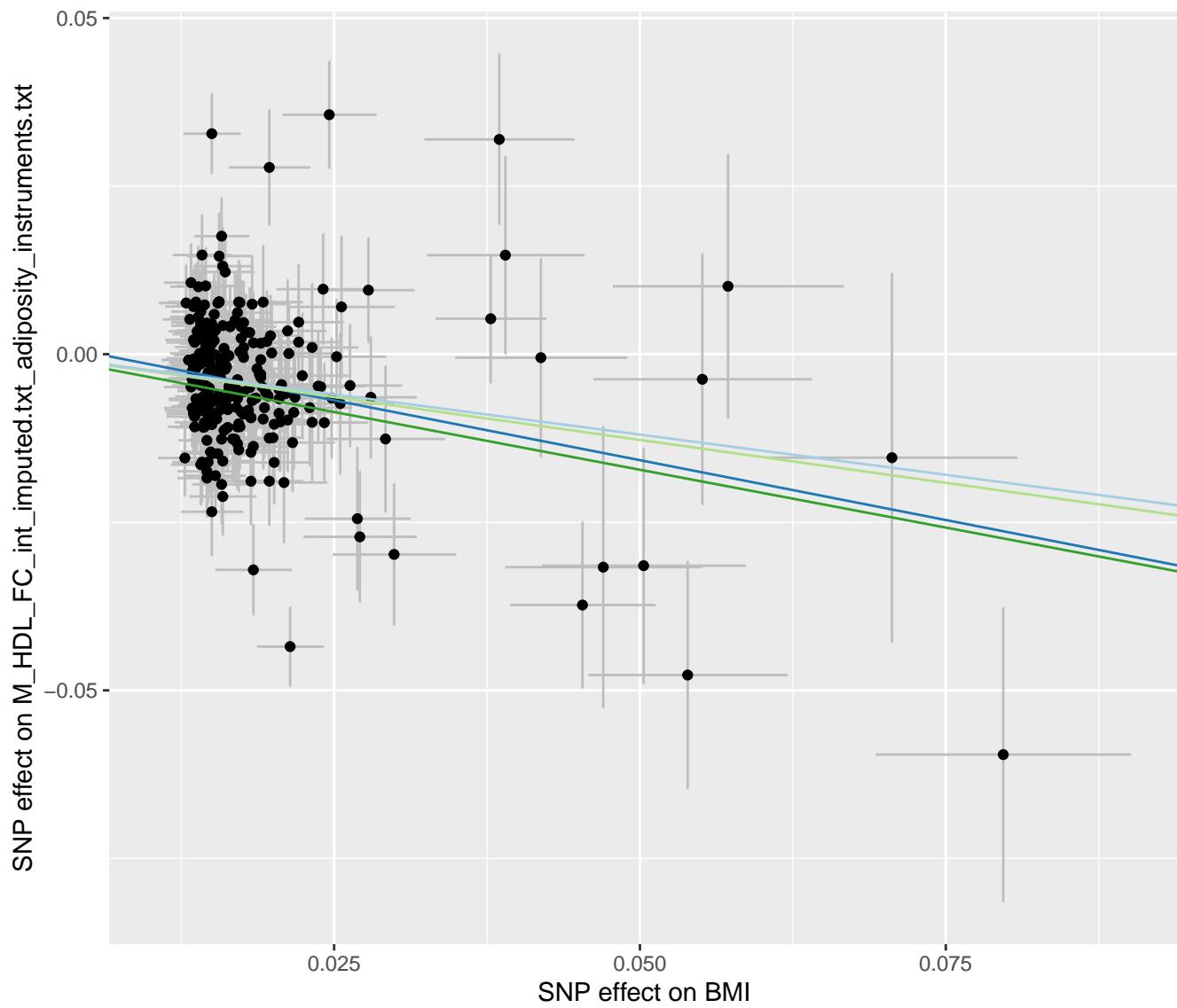
Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



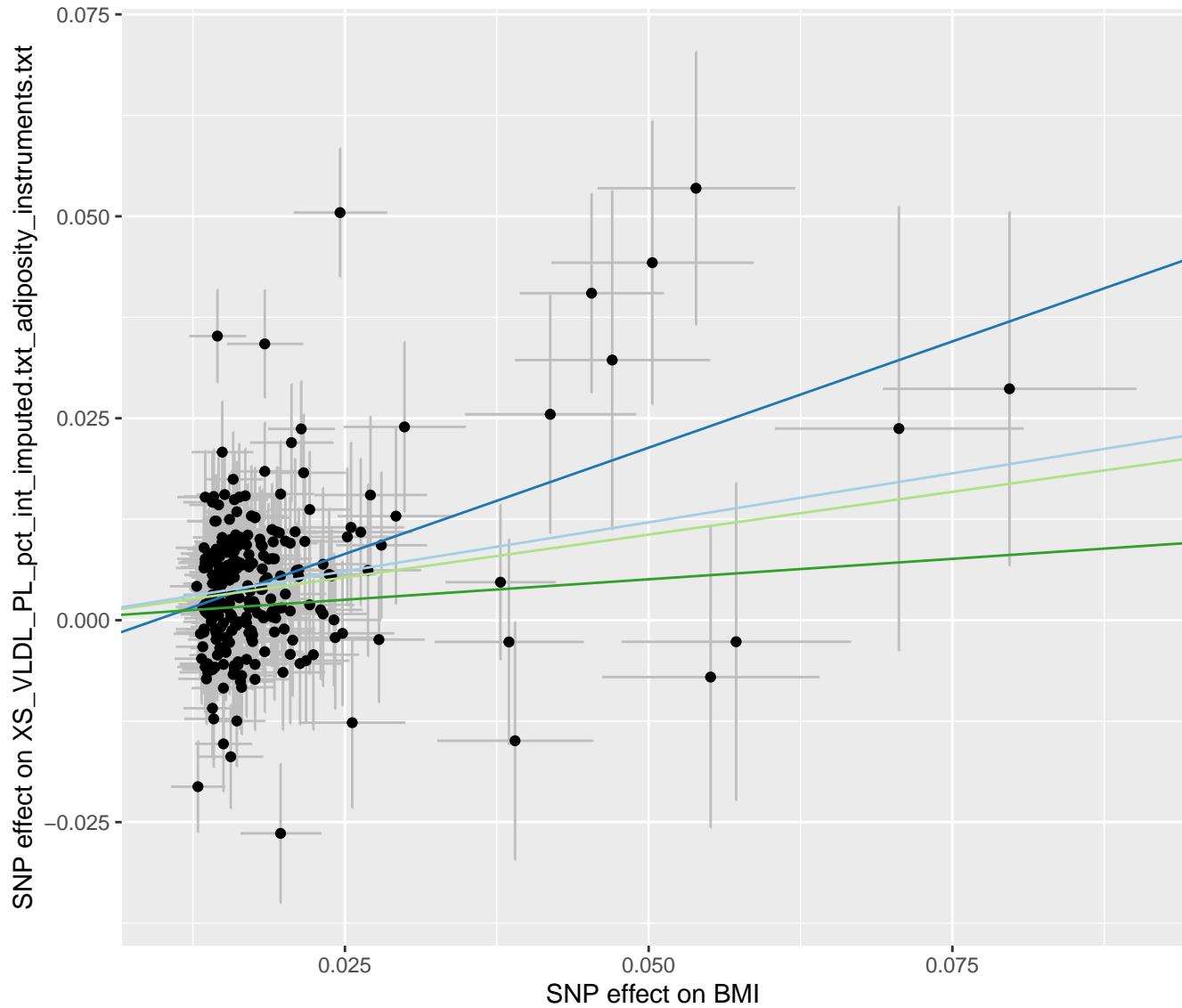
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



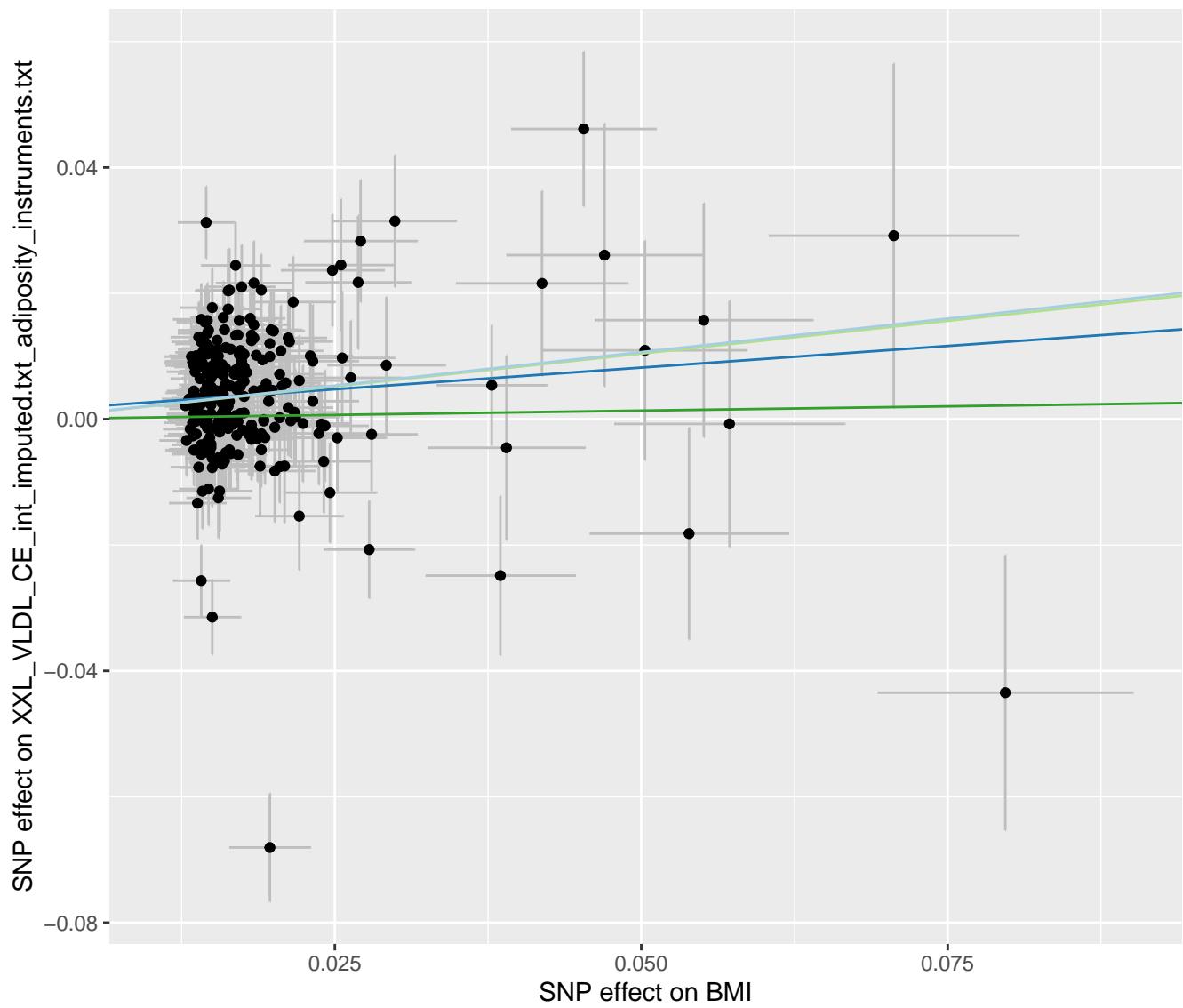
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



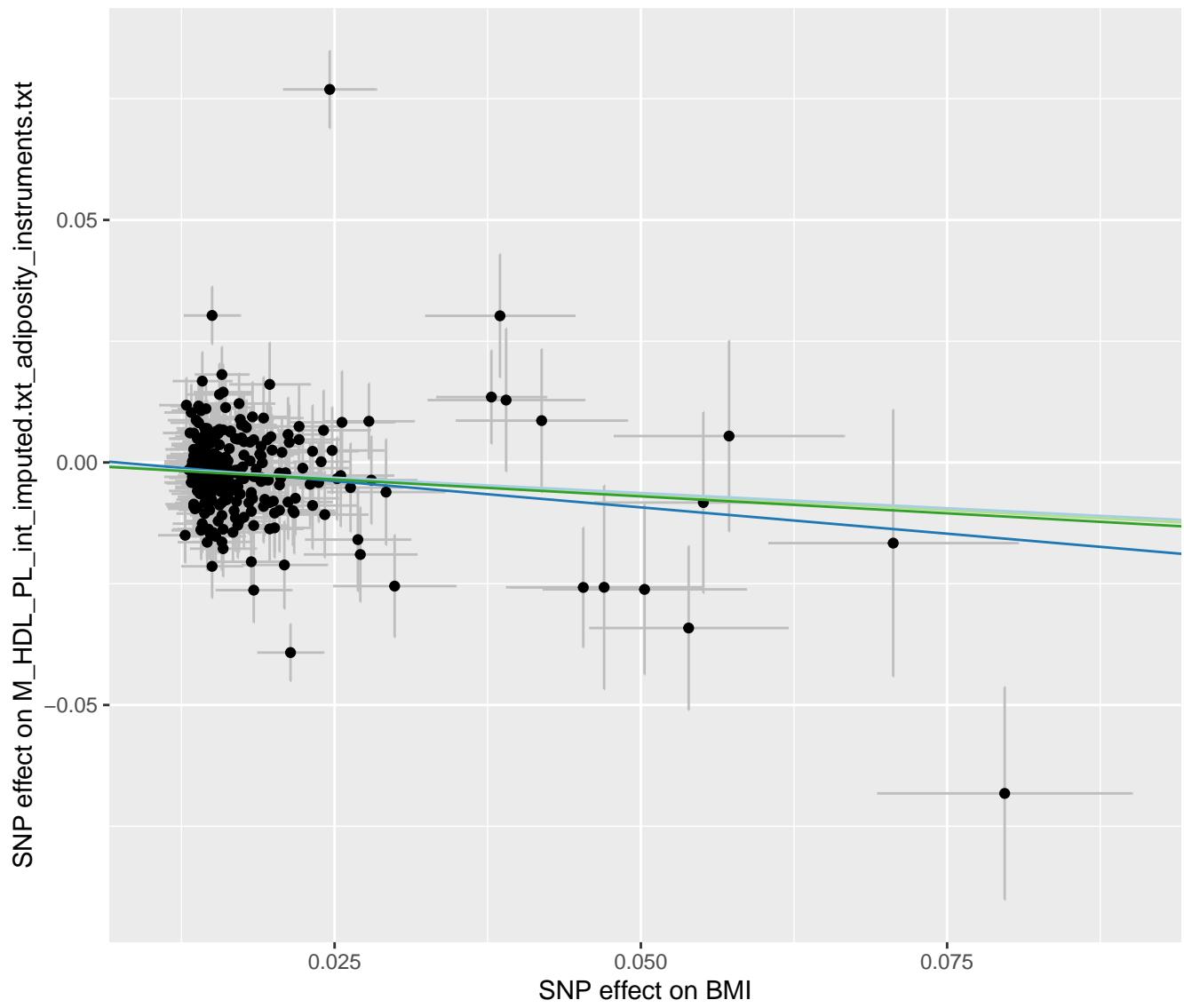
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



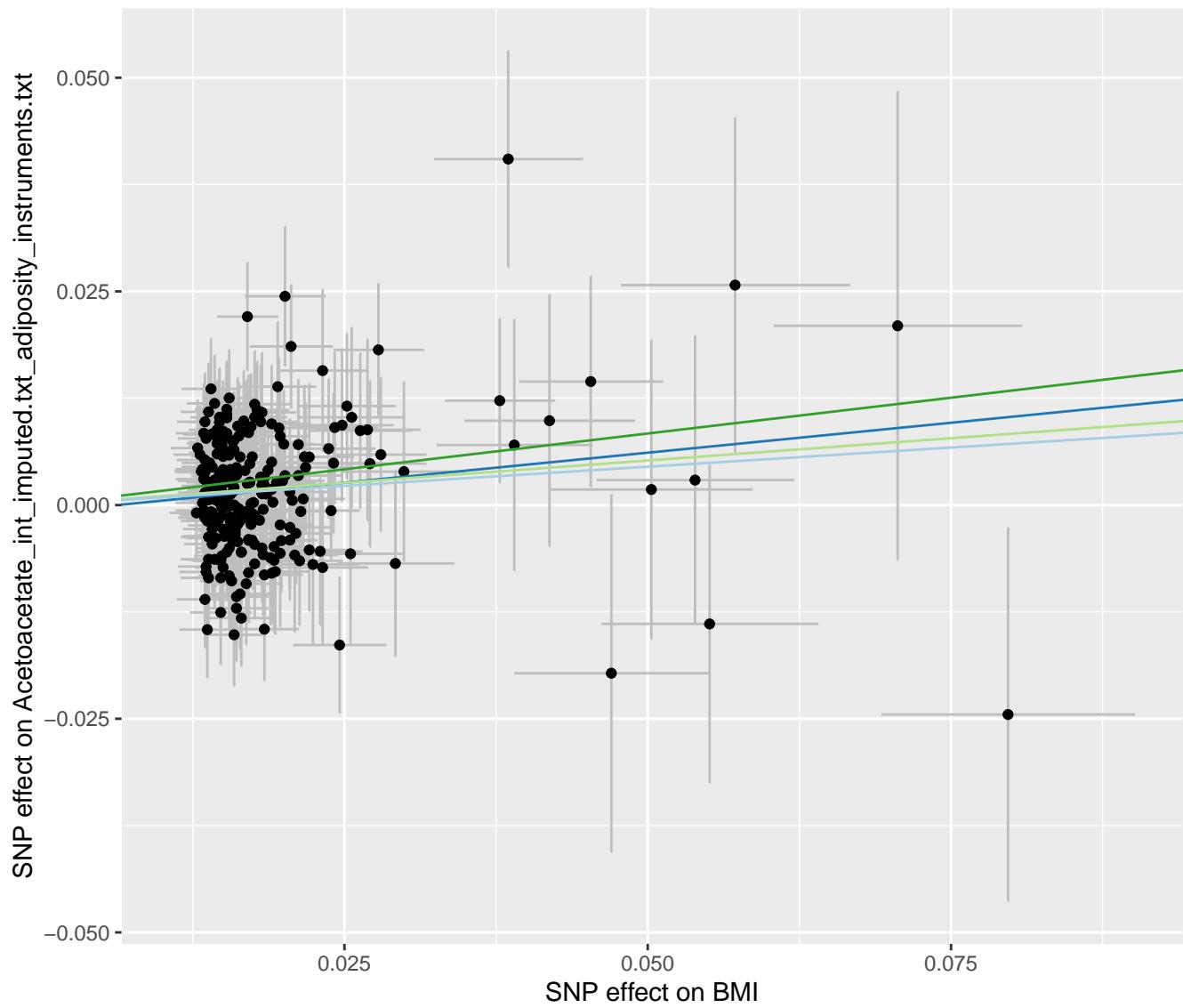
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

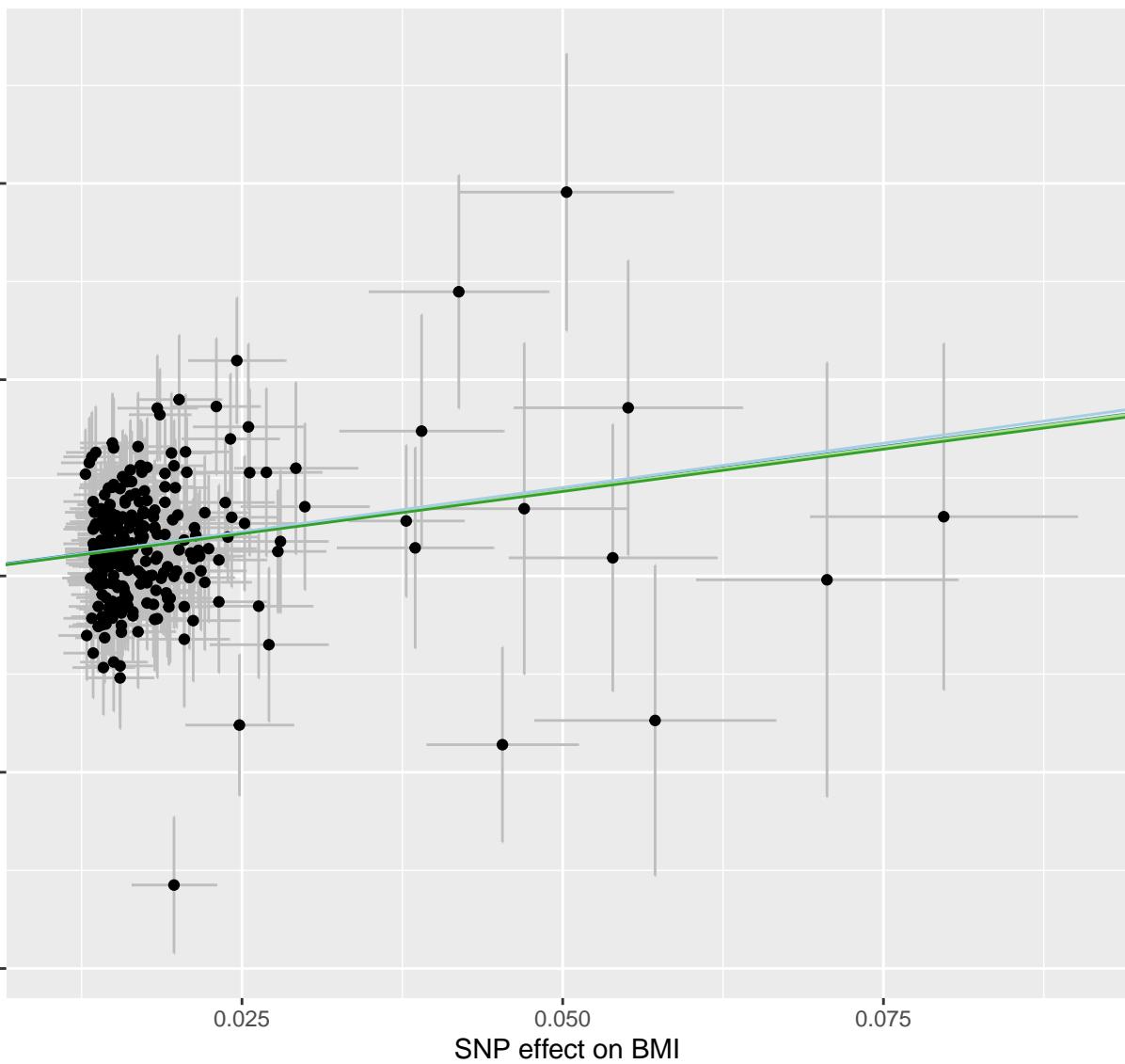


Weighted median



Weighted mode

SNP effect on lle\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



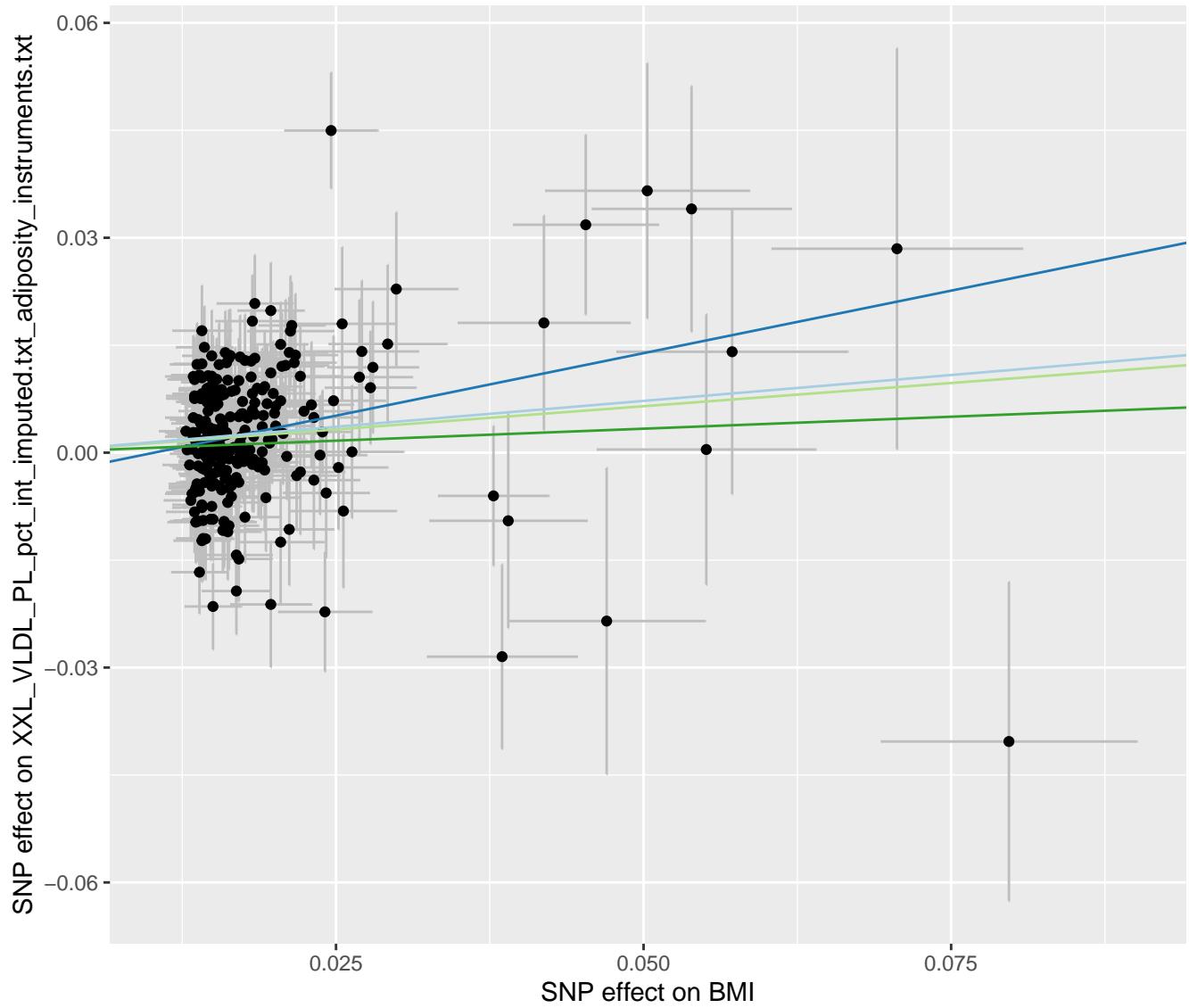
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



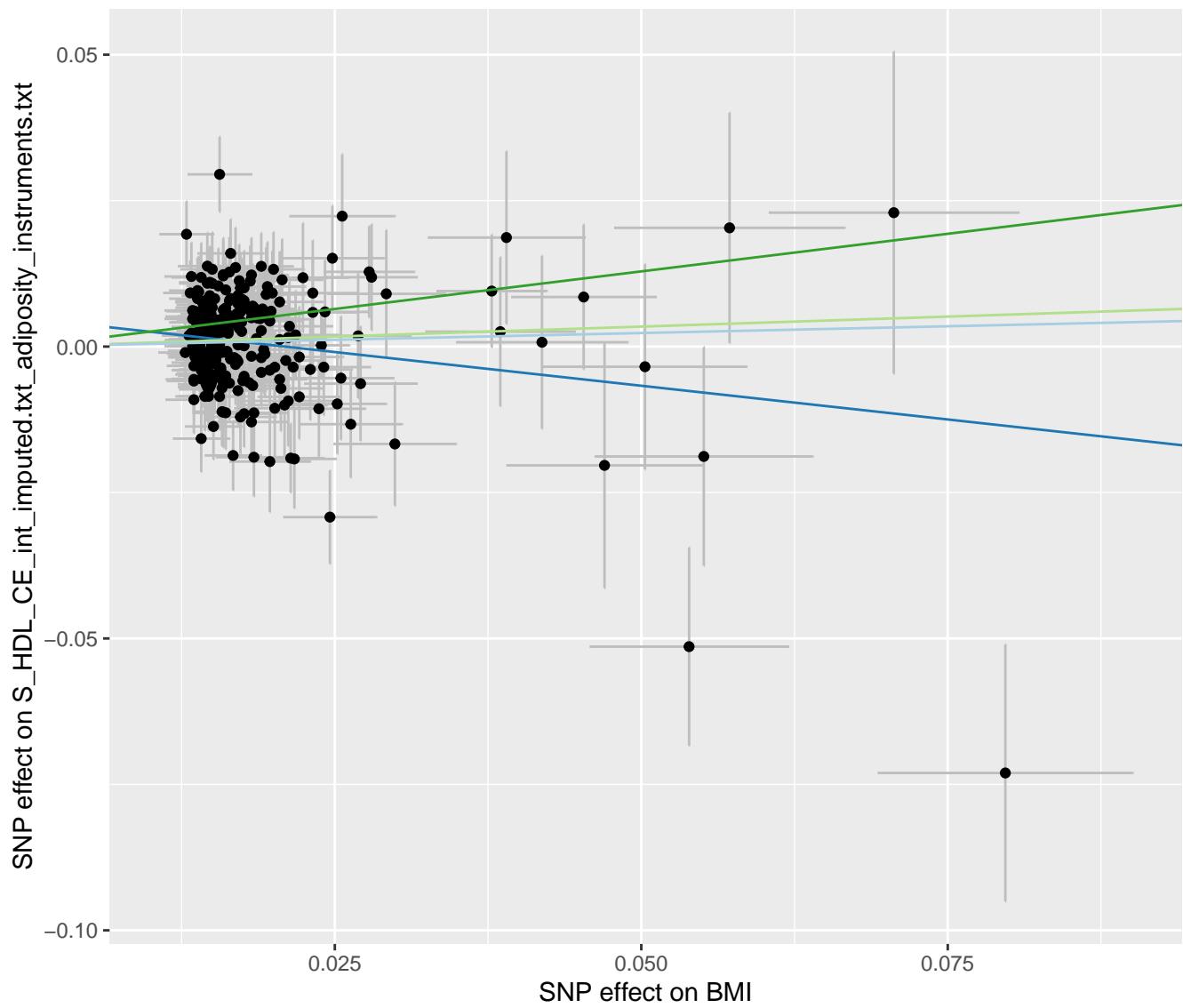
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



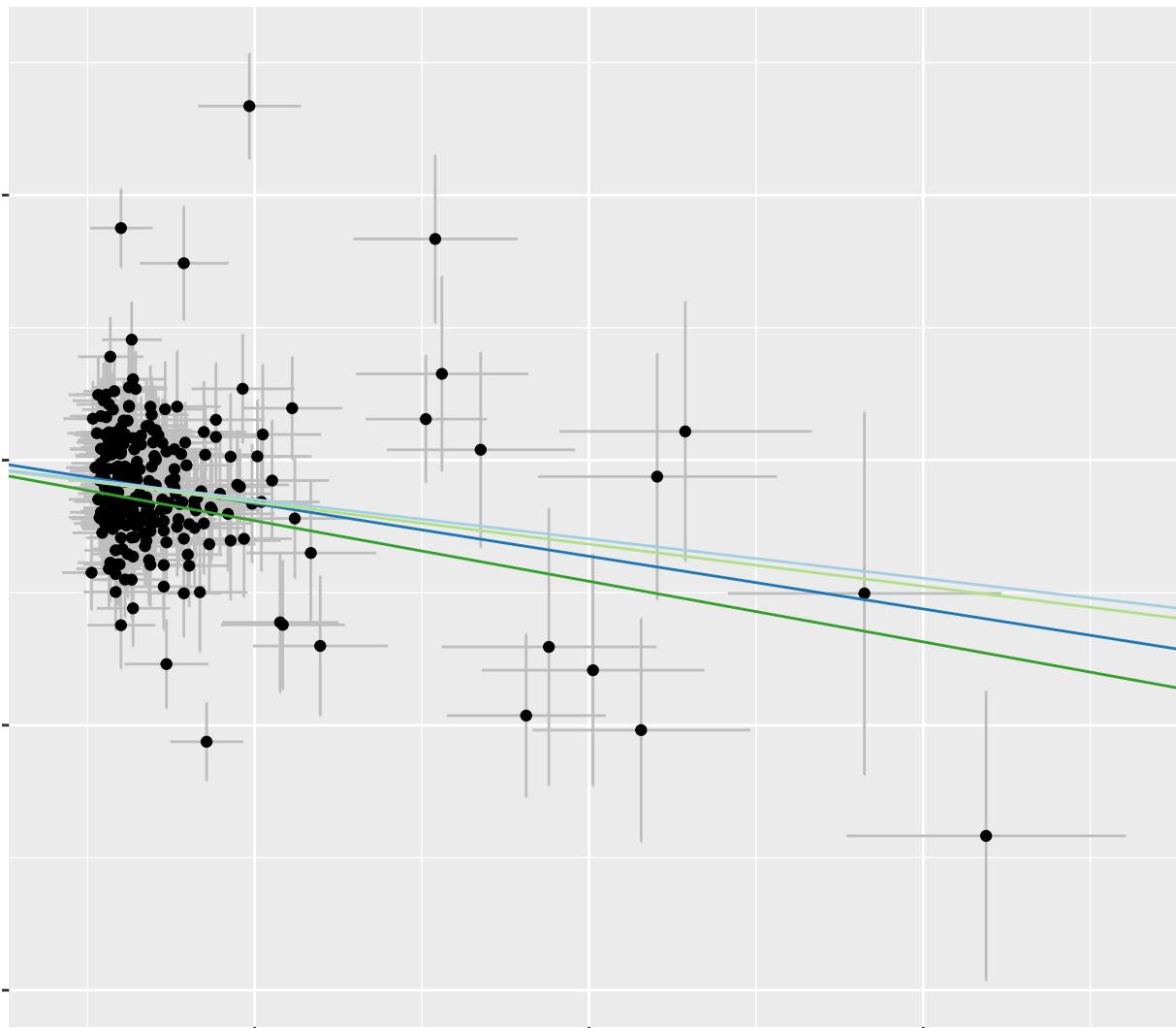
Weighted median



Weighted mode

SNP effect on HDL\_Pt\_int\_imputed.txt\_adiposity\_instruments.txt

SNP effect on BMI



MR Test

A blue line that slopes upwards from left to right.

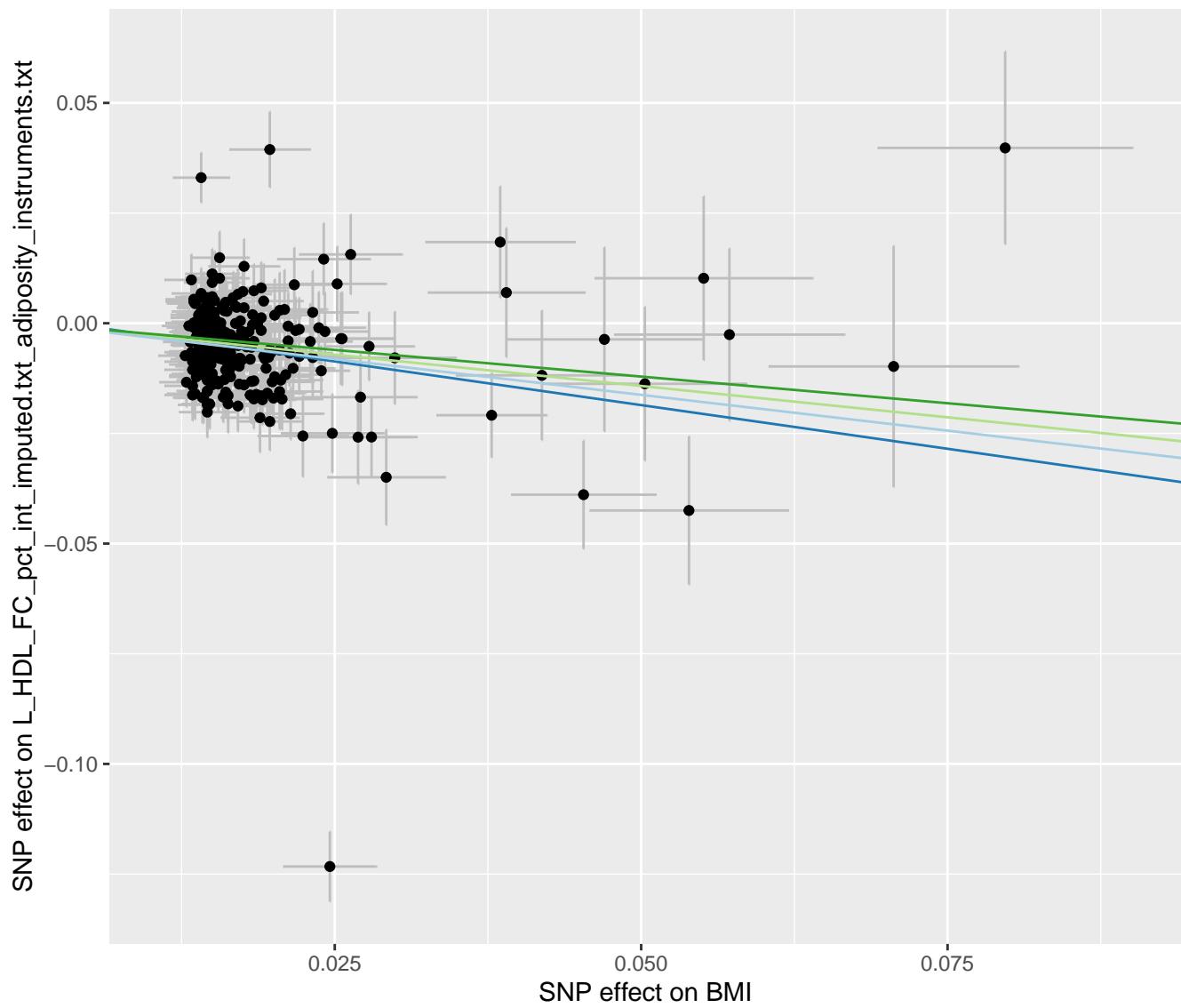
Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

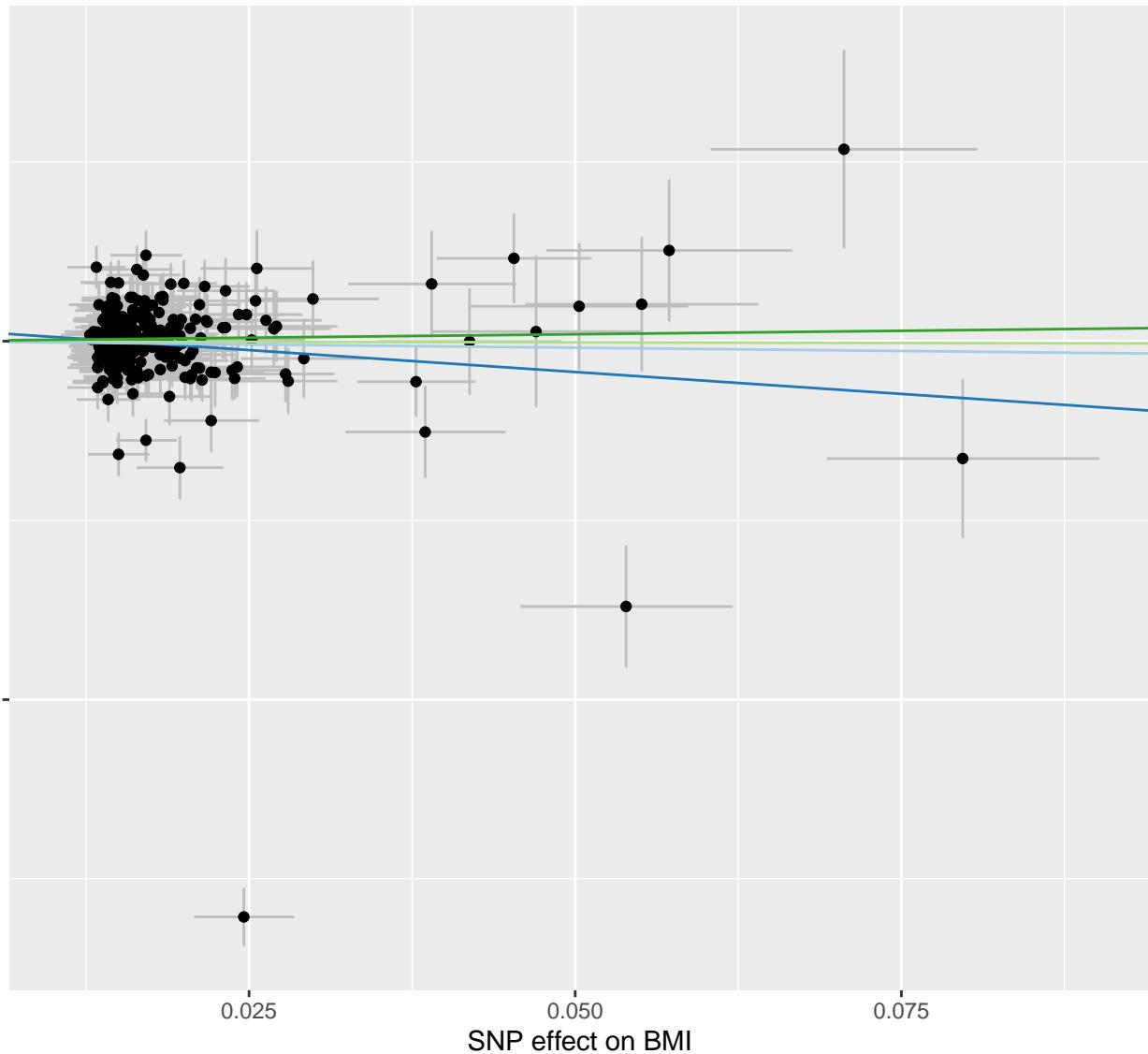


Weighted median



Weighted mode

SNP effect on S\_LDL\_CE\_int\_imputed.txt\_adiposity\_instruments.txt



MR Test

A blue line that slopes upwards from left to right.

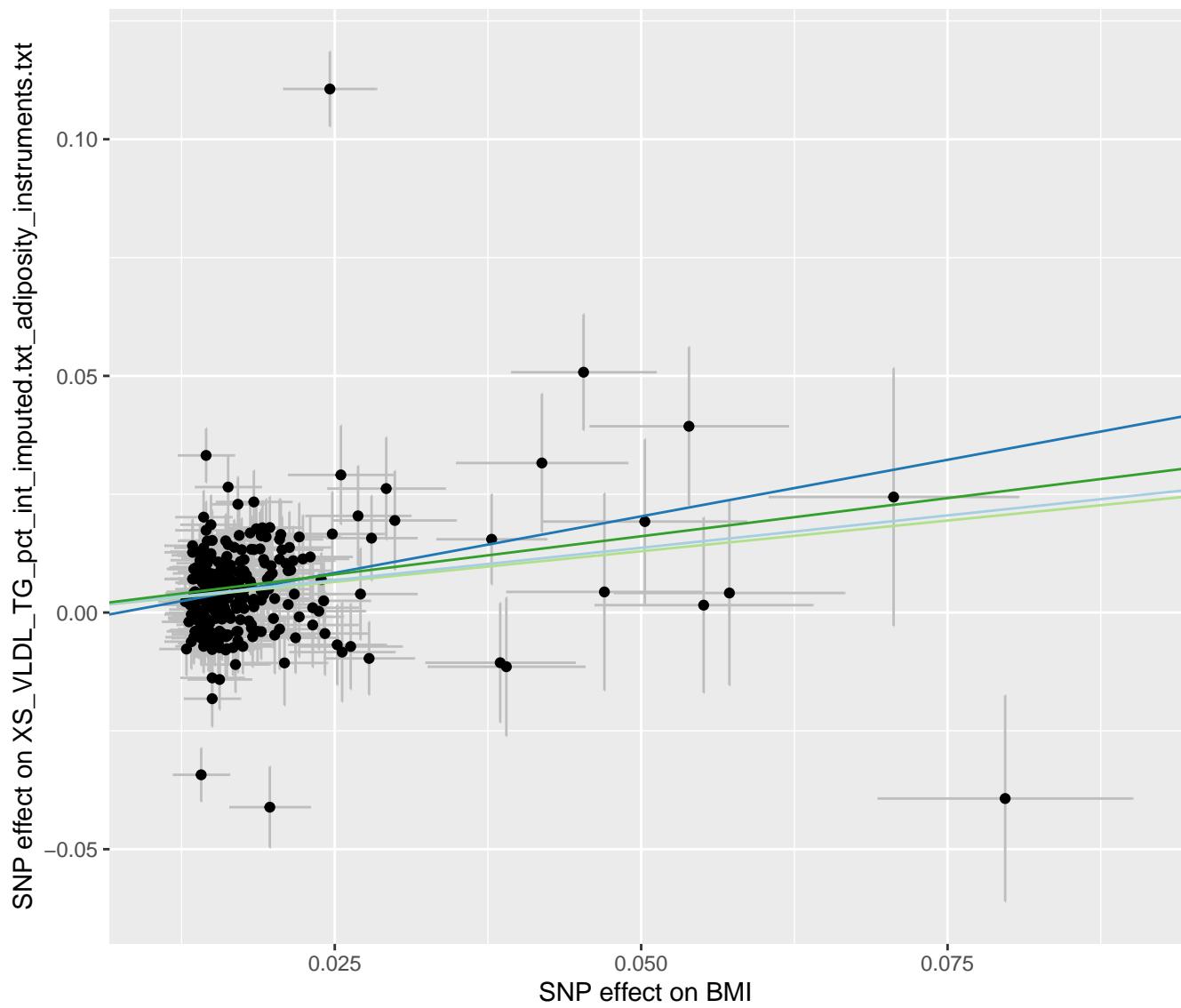
### Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

Weighted mode



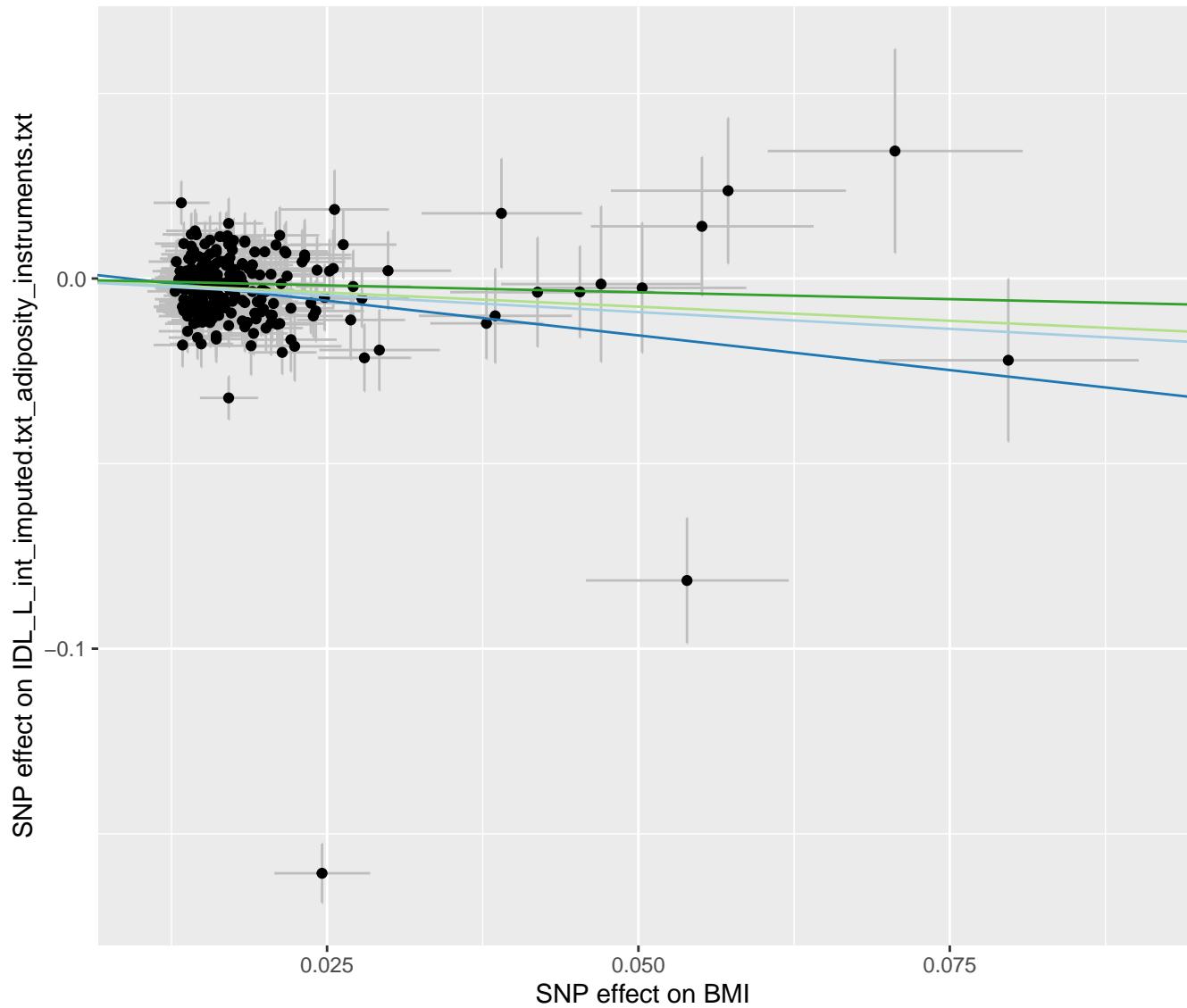
## MR Test

### Inverse variance weighted (multiplicative random effects)

MR Egger

## Weighted median

## Weighted mode



MR Test

A blue line that slopes upwards from left to right.

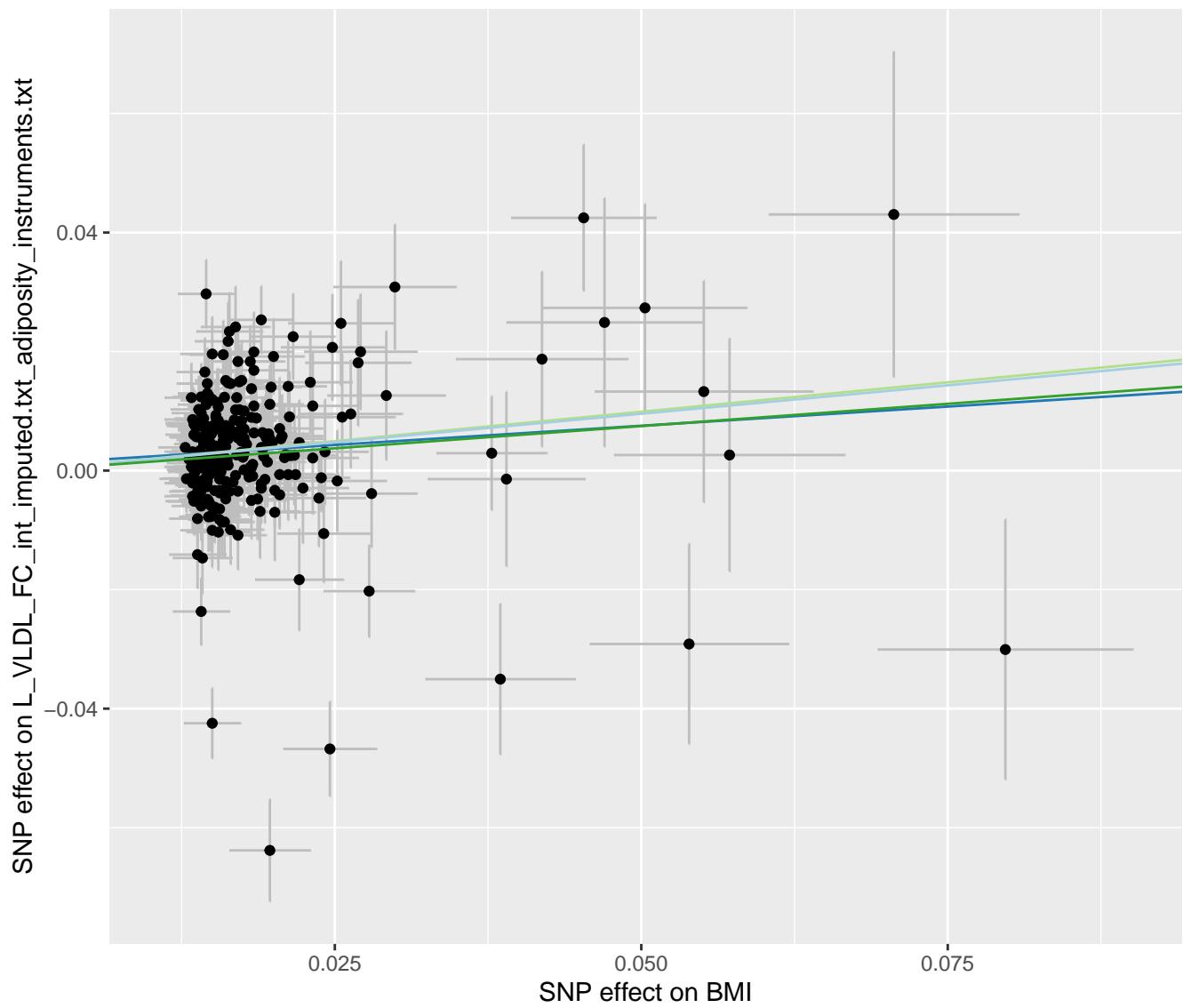
Inverse variance weighted (multiplicative random effects)

MR Egger

100

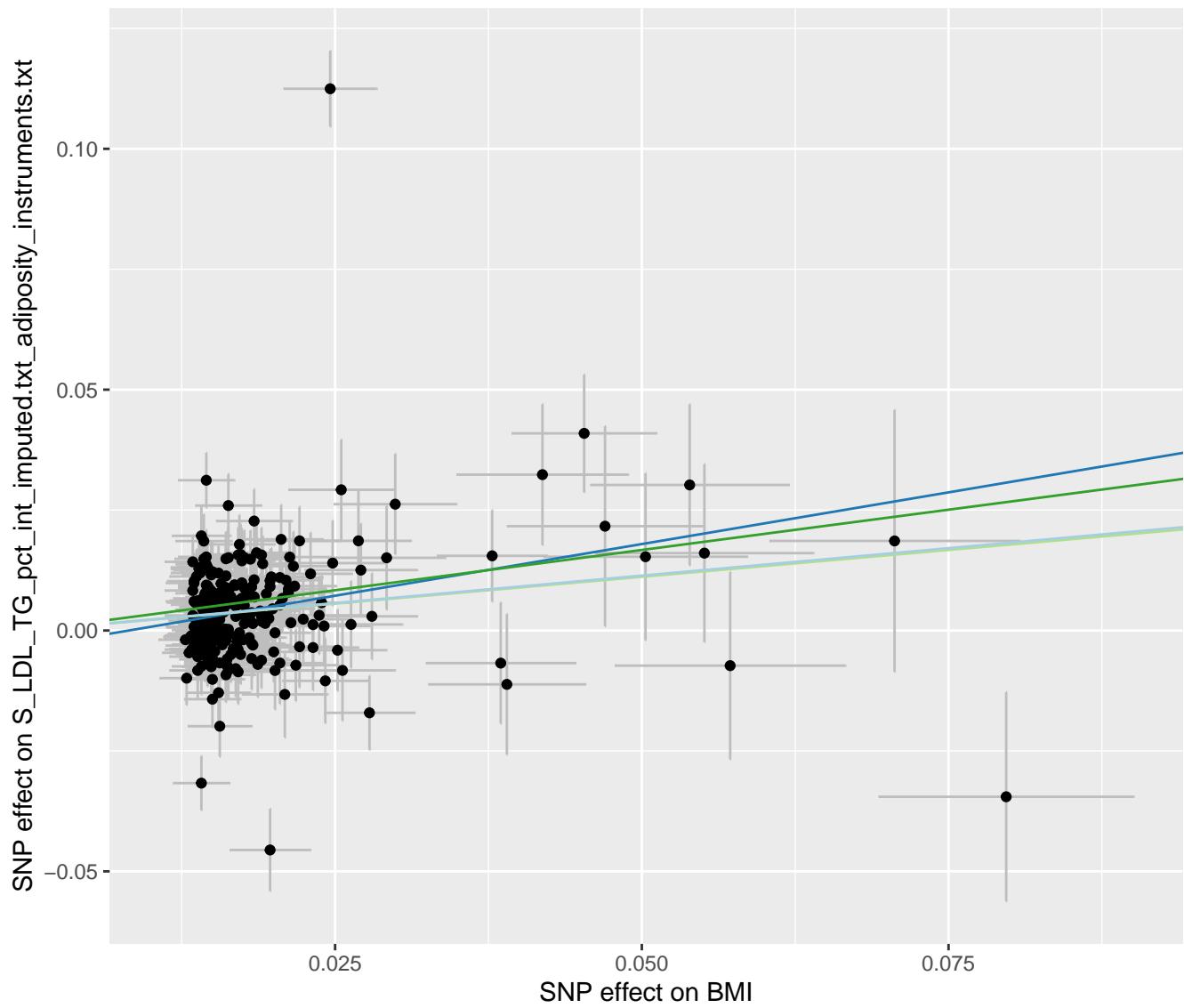
## Weighted median

## Weighted mode



## MR Test

 Inverse variance weighted (multiplicative random effects)  
 MR Egger  
 Weighted median  
 Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



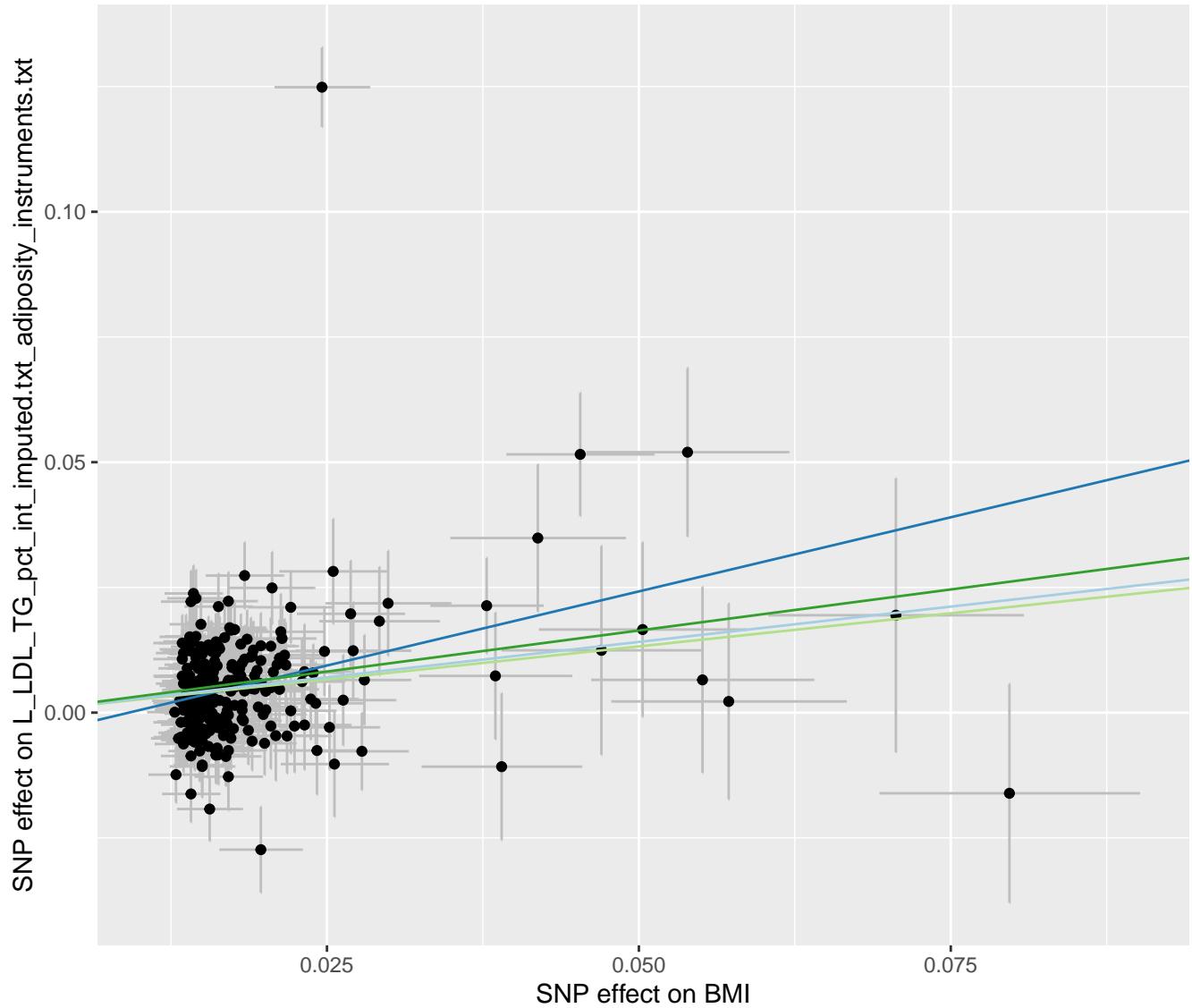
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



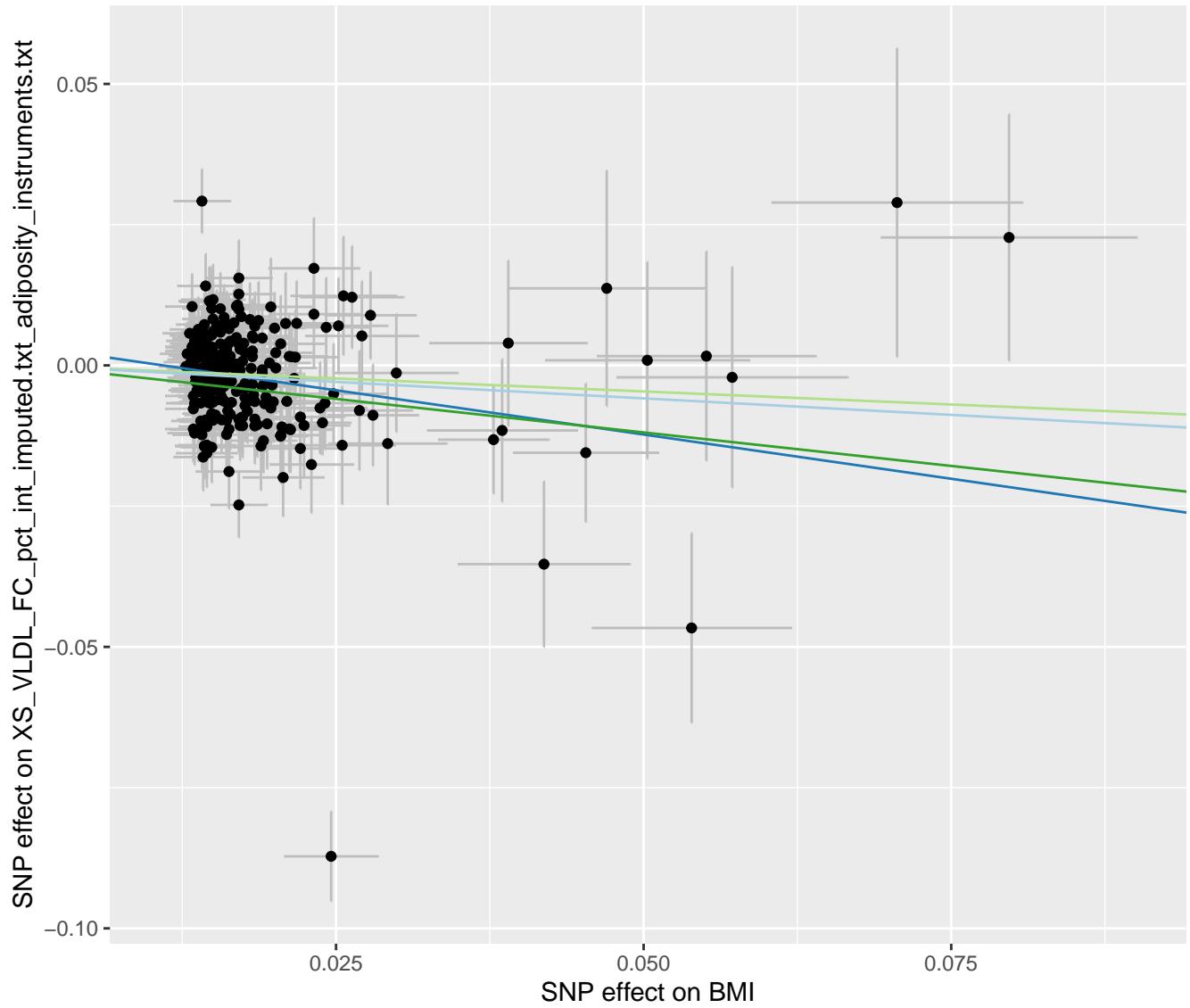
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

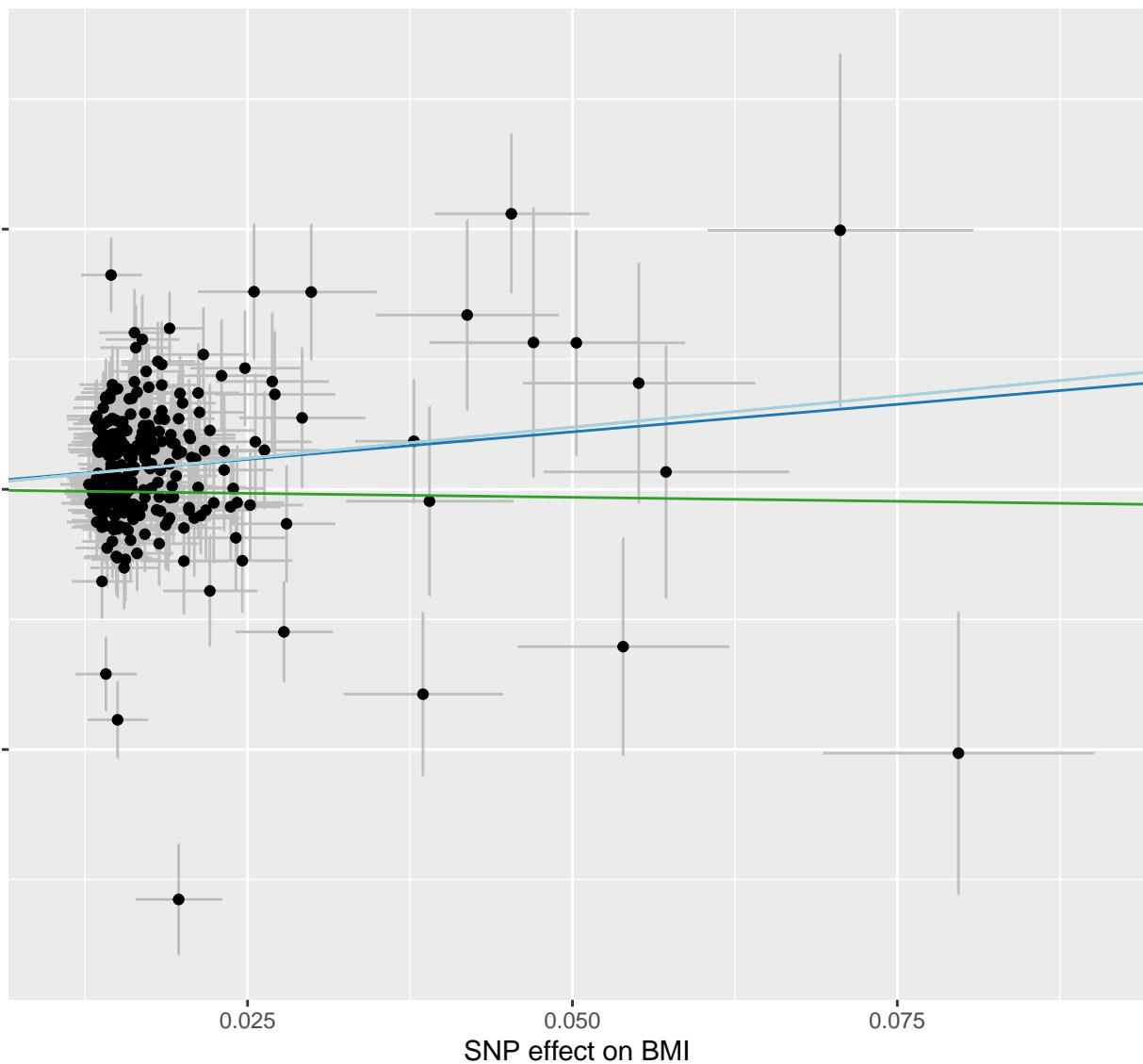


Weighted median



Weighted mode

SNP effect on Total\_TG\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



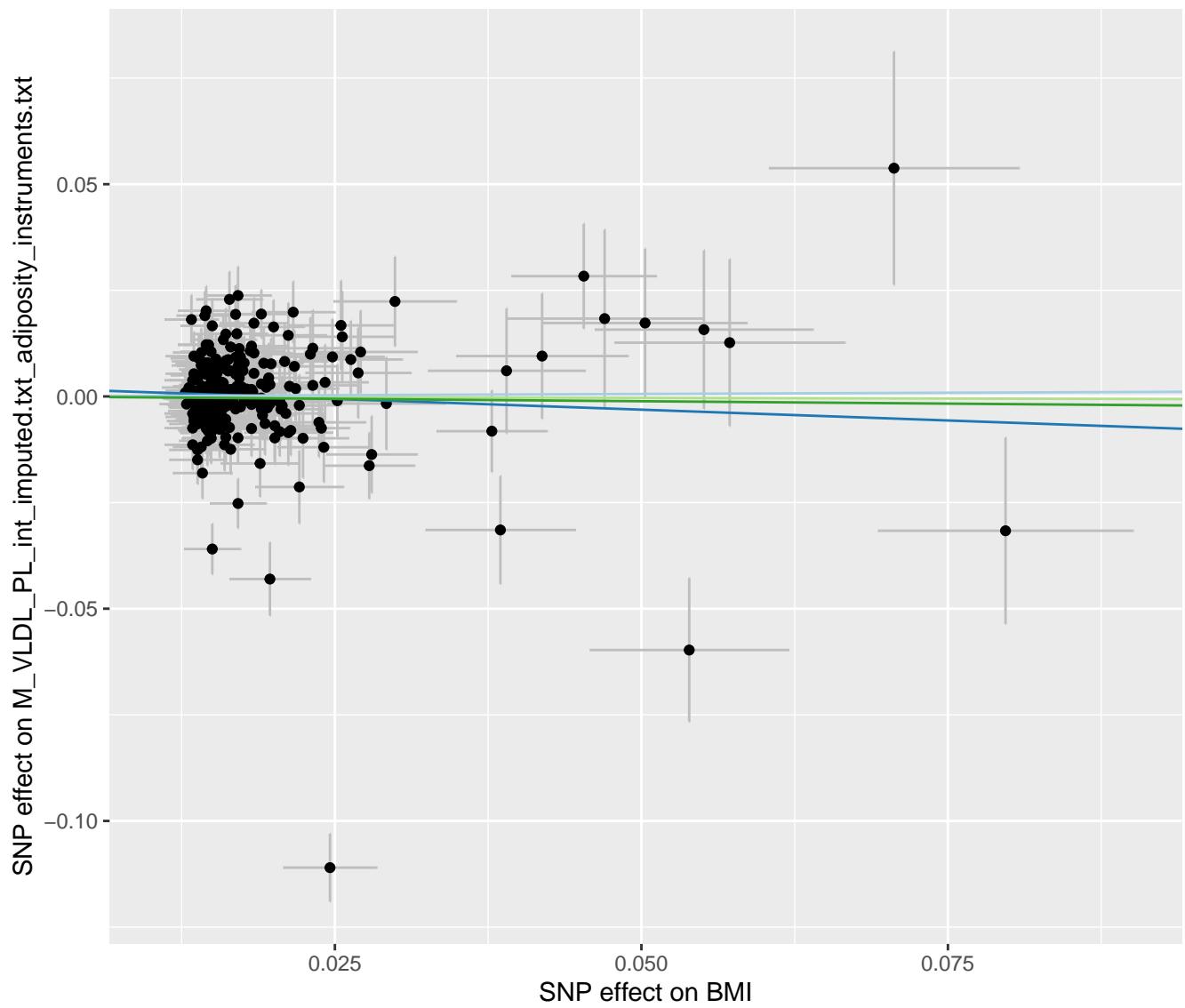
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

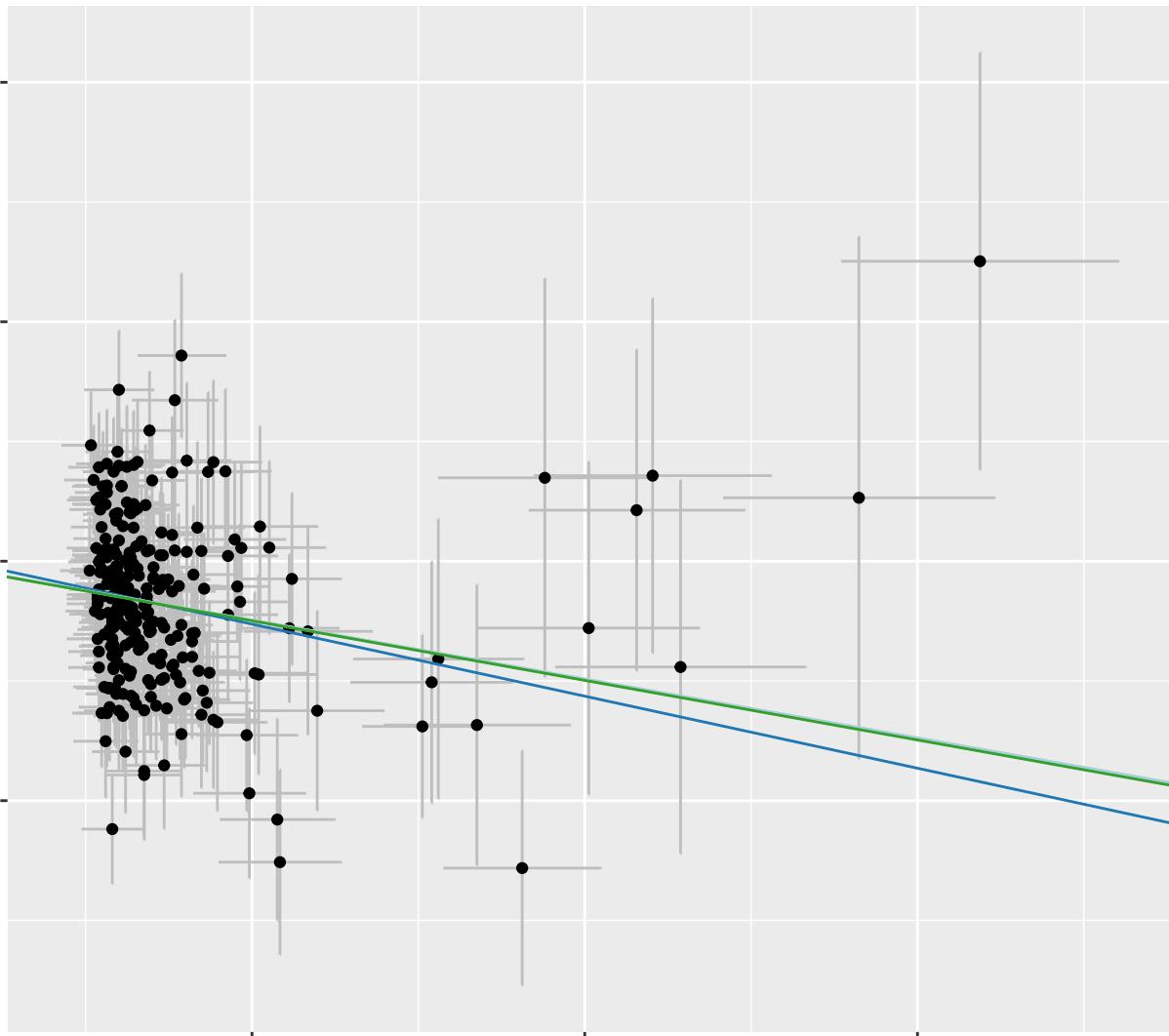
SNP effect on Unsaturation\_int\_imputed\_adiposity\_instruments.txt

0.025

0.050

0.075

SNP effect on BMI



# MR Test



Inverse variance weighted (multiplicative random effects)



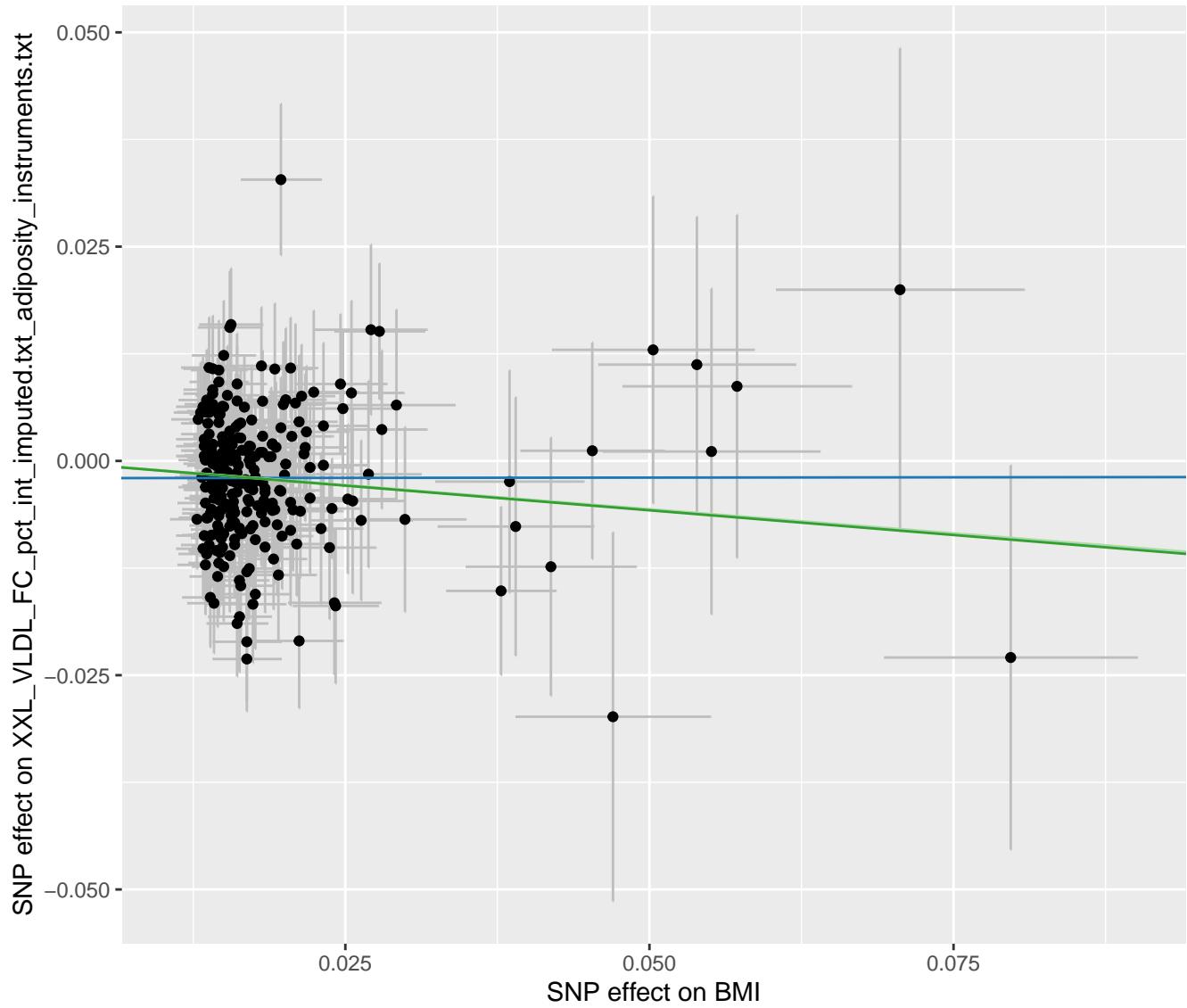
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

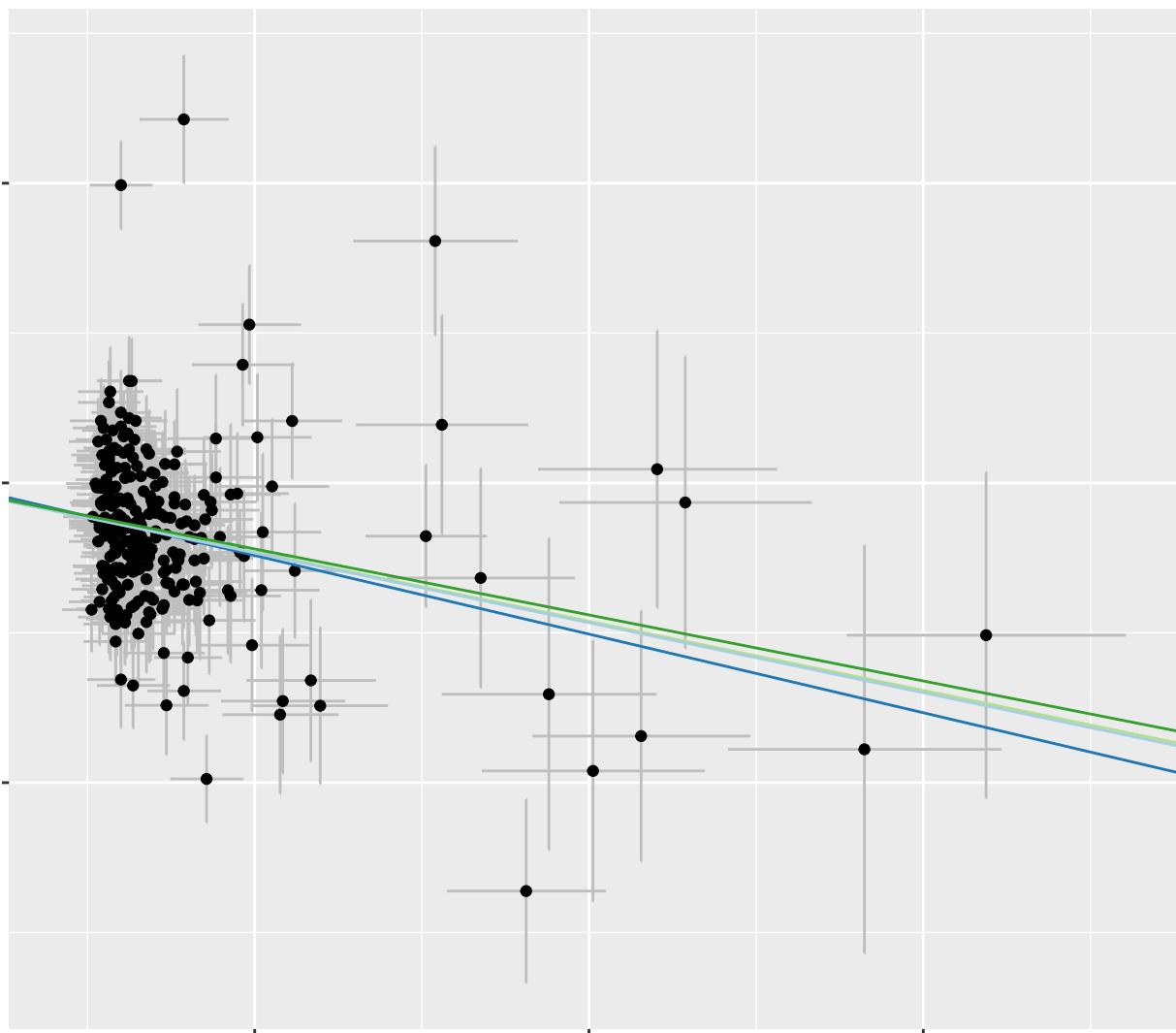
SNP effect on L\_HDL\_L\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

0.050

0.075



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



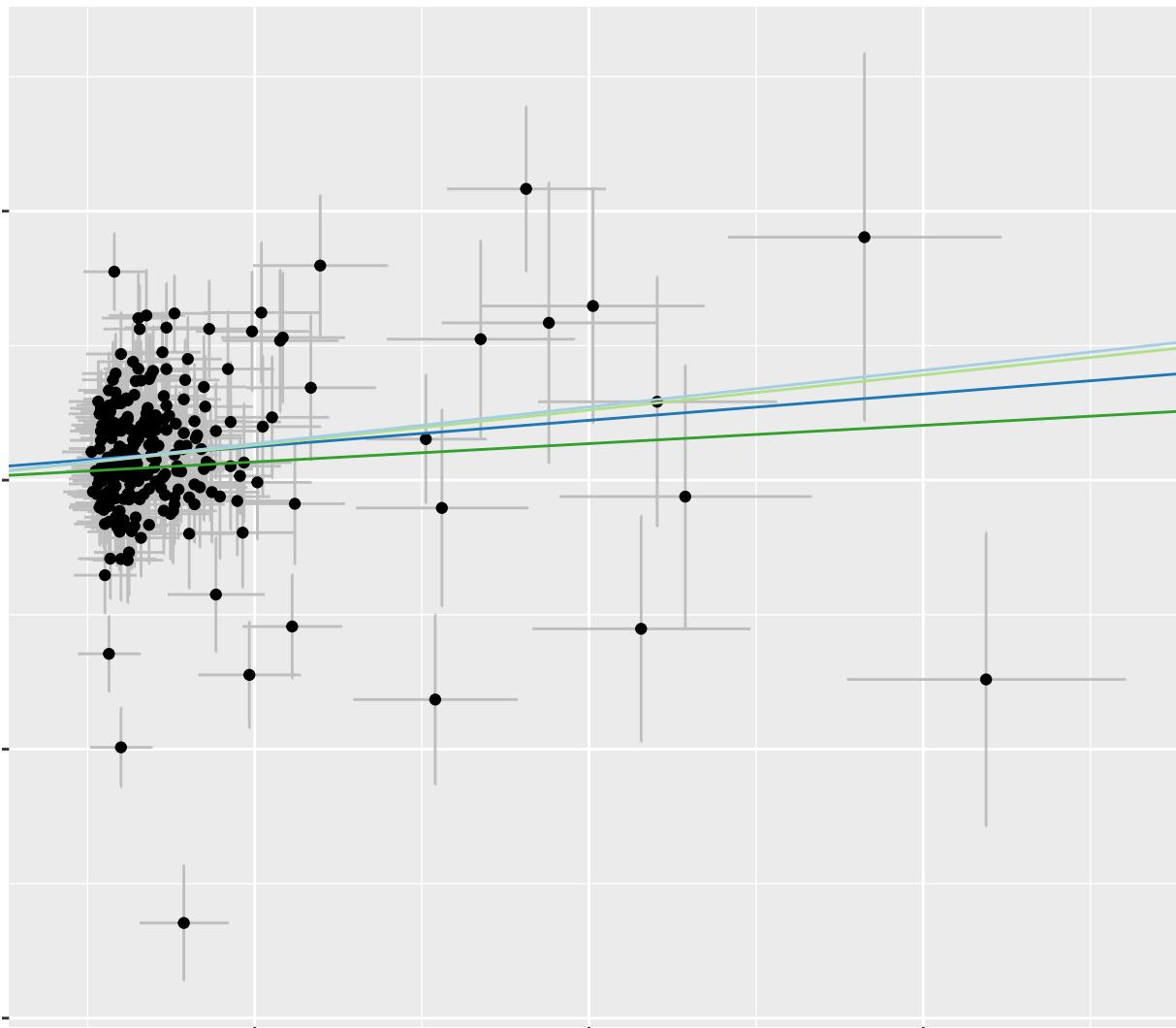
Weighted median



Weighted mode

SNP effect on XL\_VLDL\_P\_int\_imputed.txt\_adiposity\_instruments.txt

SNP effect on BMI



### MR Test



Inverse variance weighted (multiplicative random effects)



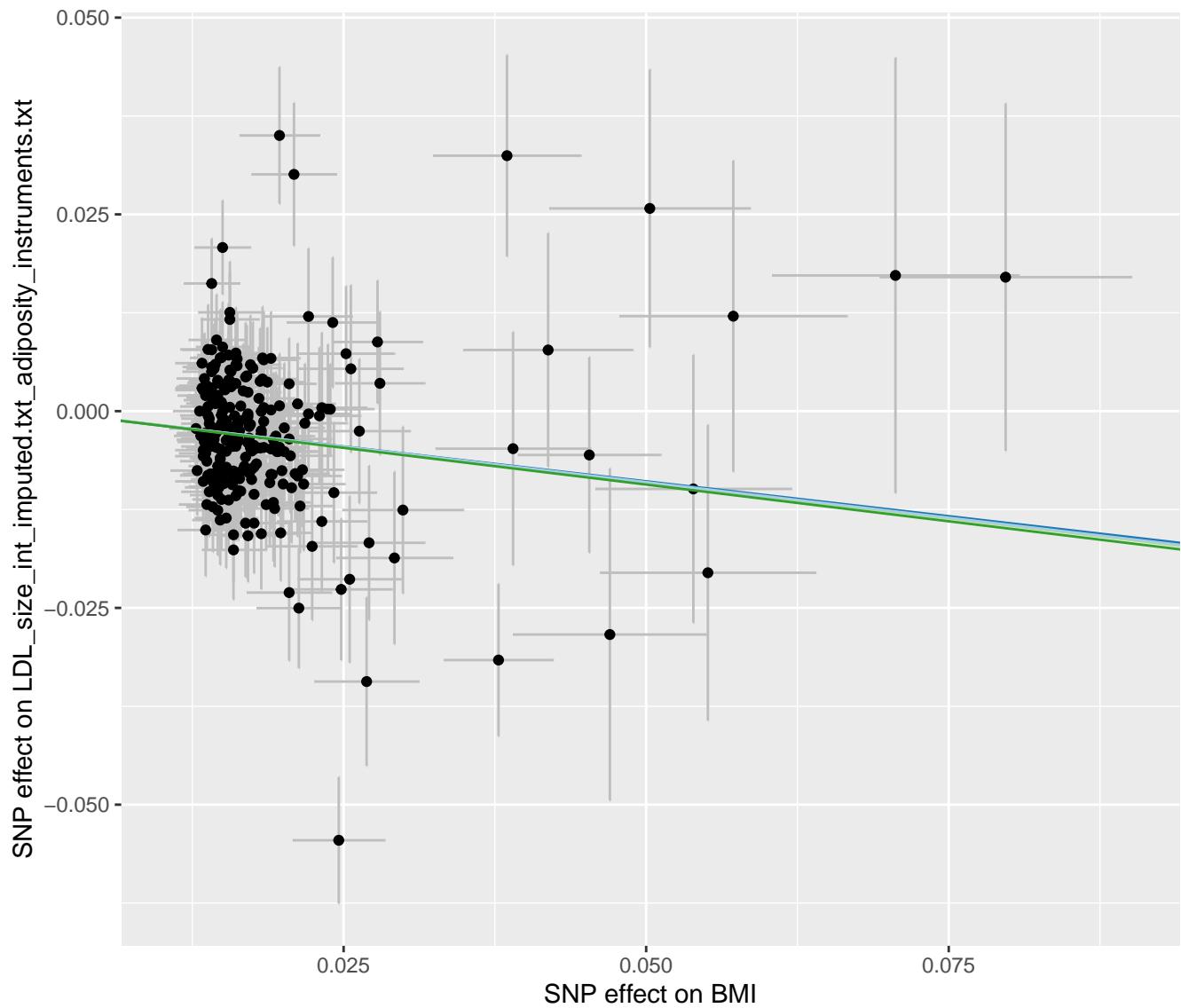
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



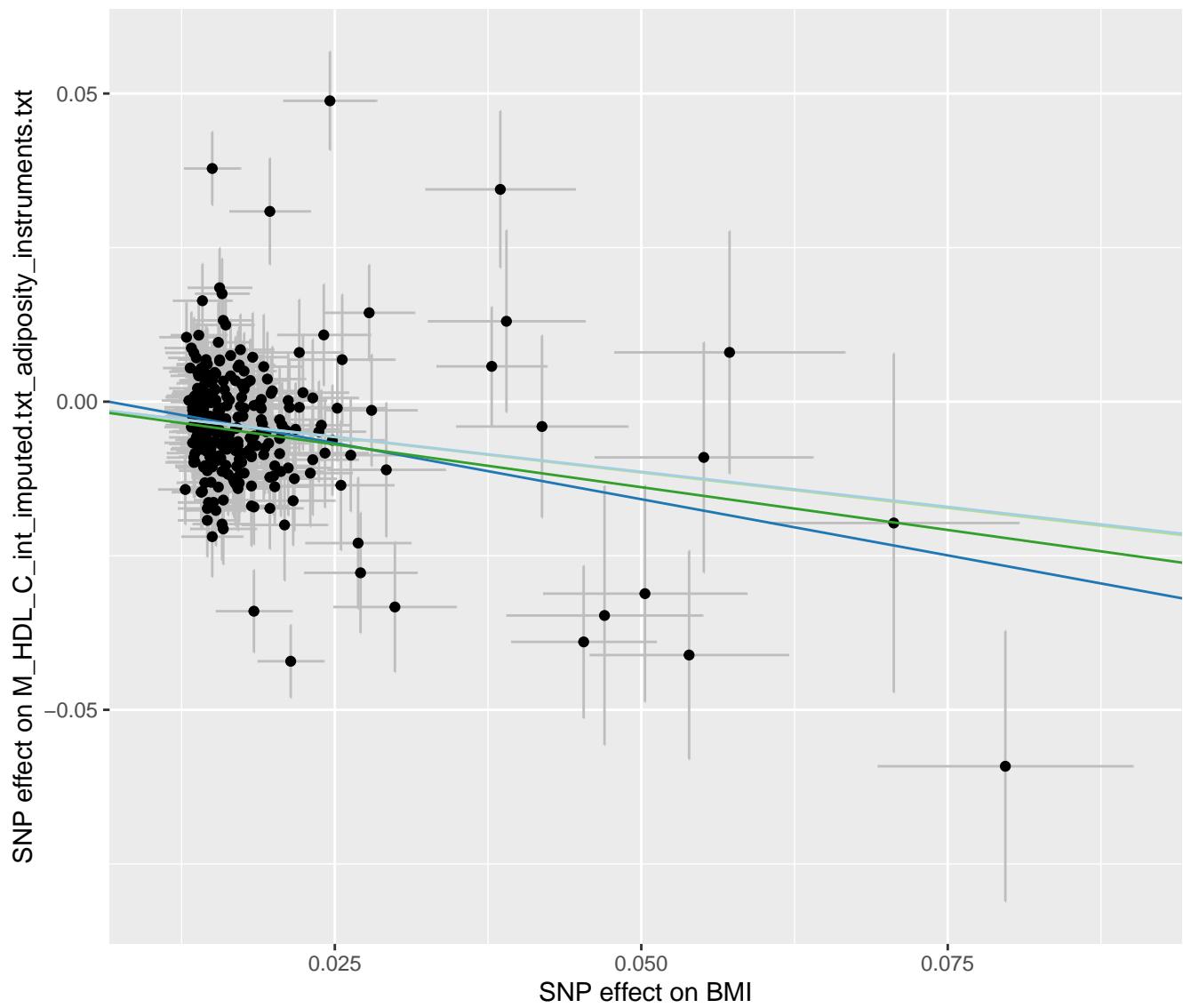
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

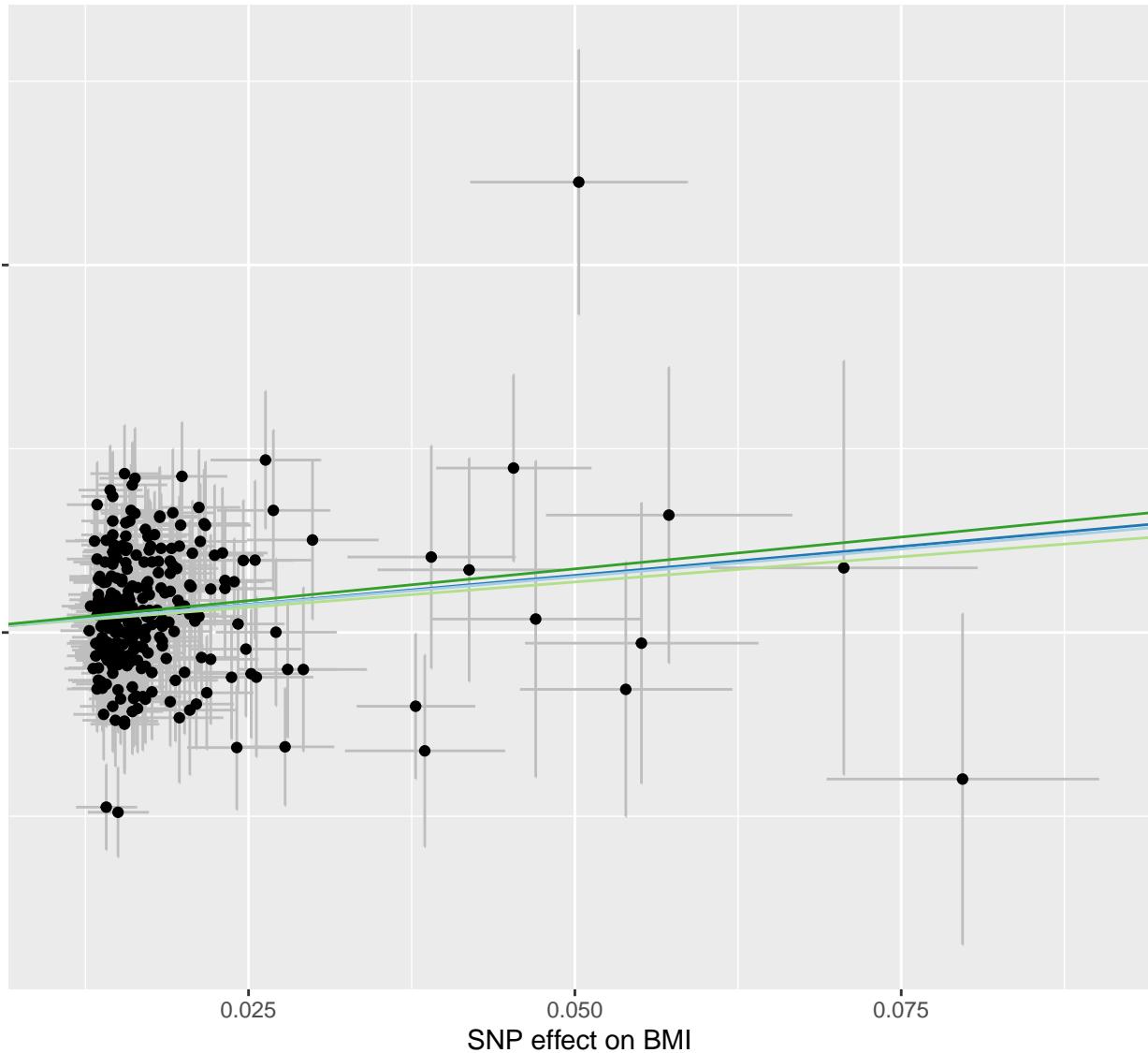


Weighted median



Weighted mode

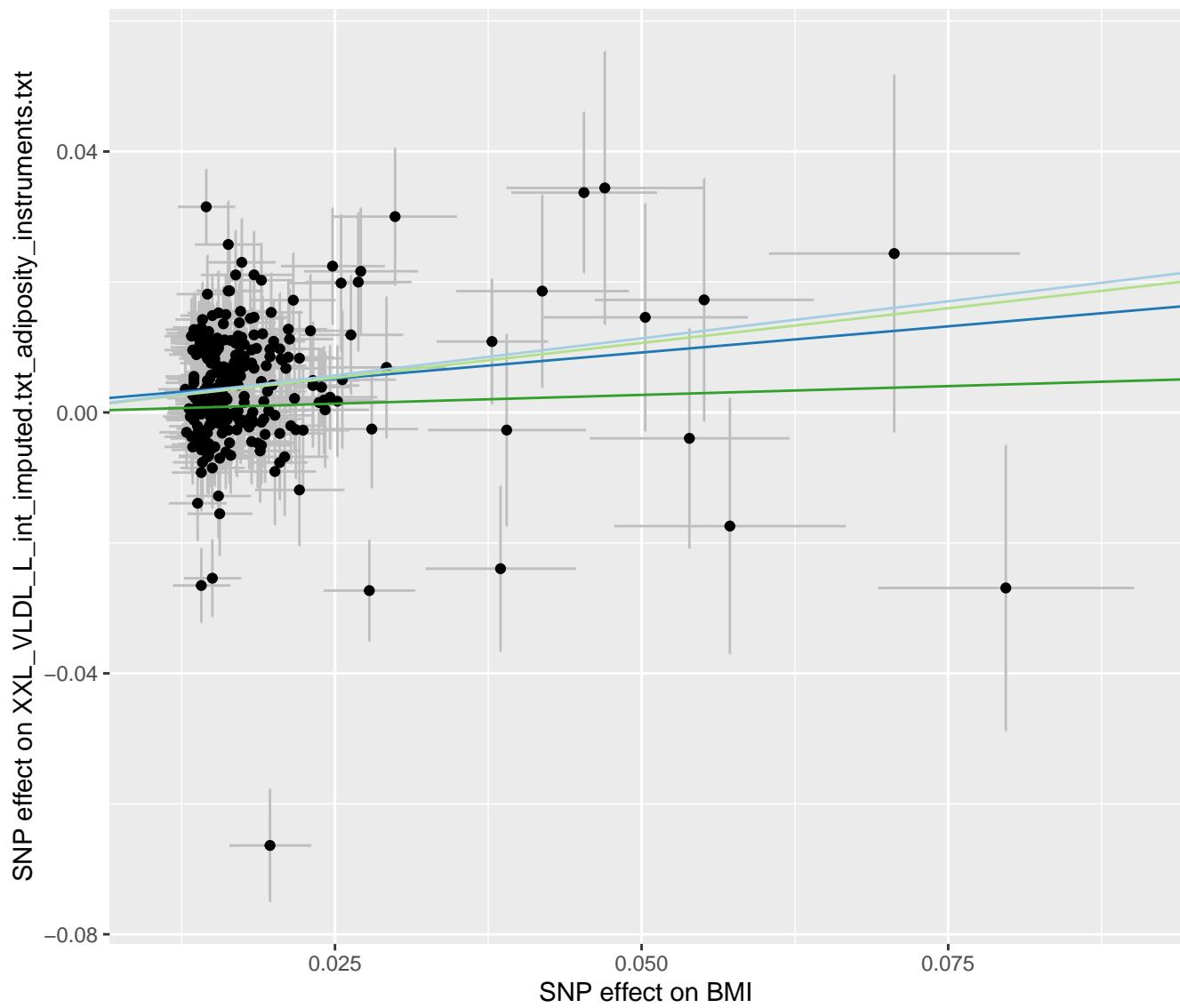
SNP effect on Creatinine\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test

Inverse variance weighted (multiplicative random effects)  
MR Egger

Weighted median  
Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

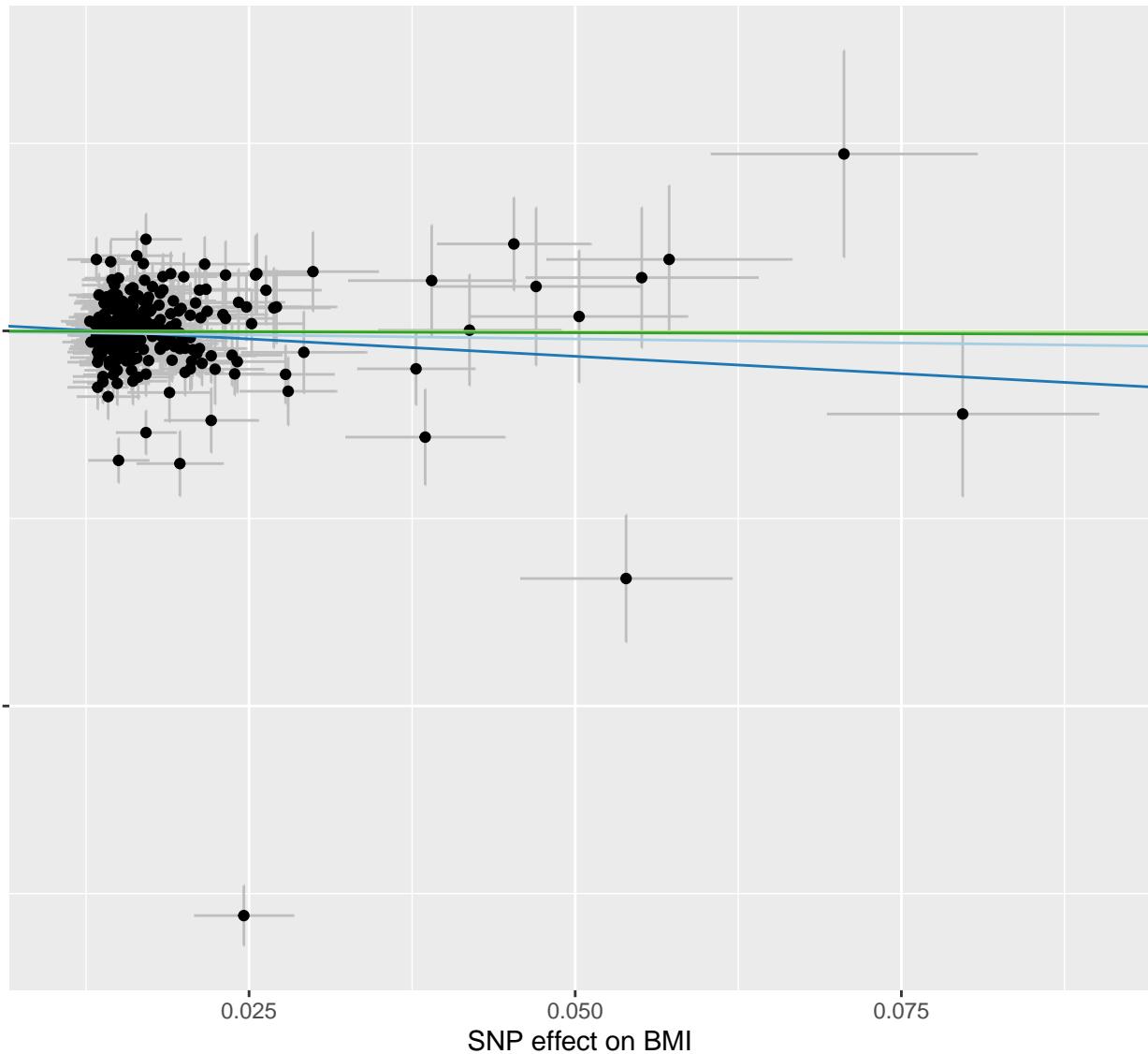


Weighted median



Weighted mode

SNP effect on S\_LDL\_P\_int\_imputed.txt\_adiposity\_instruments.txt



### MR Test



Inverse variance weighted (multiplicative random effects)



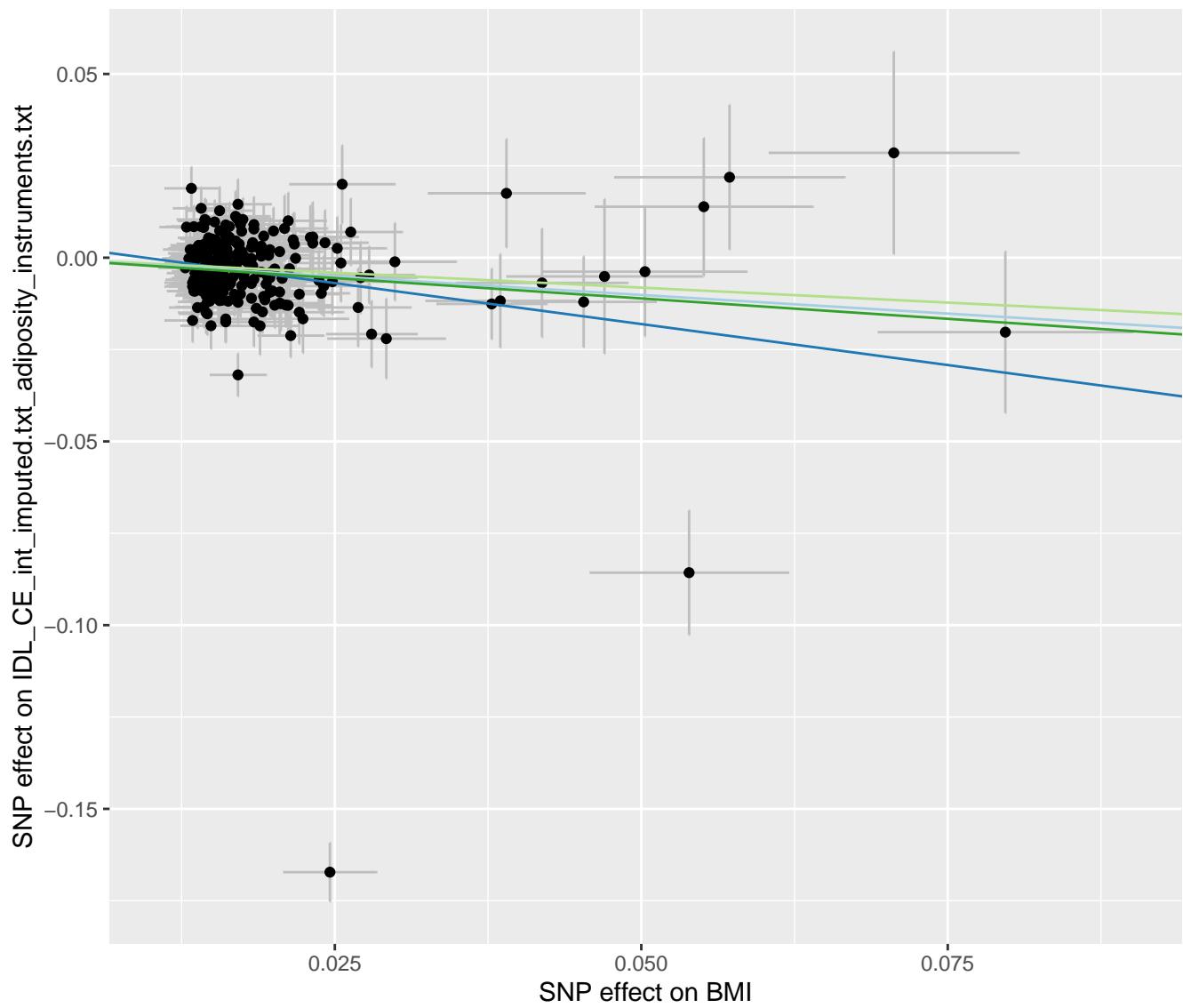
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

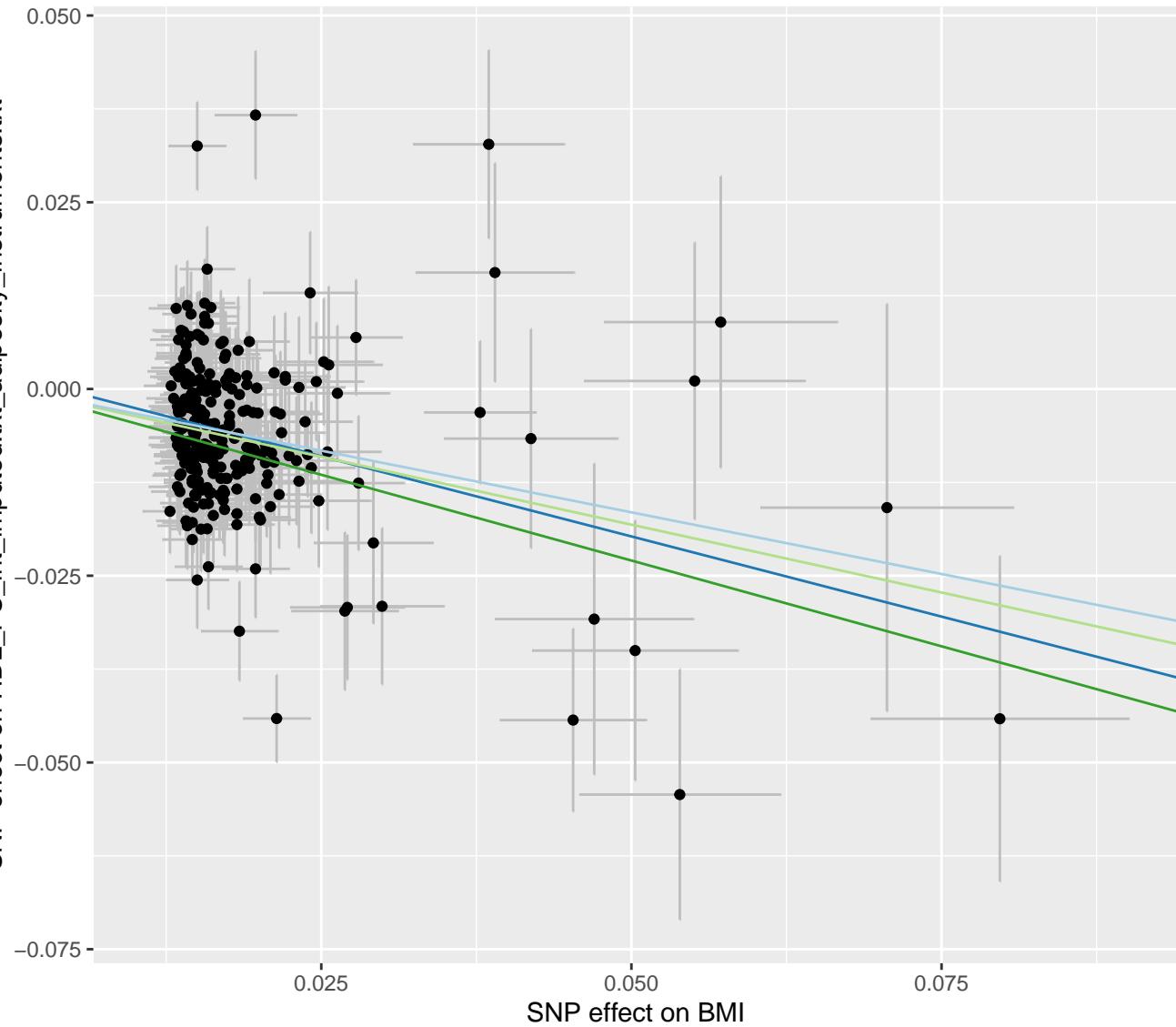


Weighted median



Weighted mode

SNP effect on HDL\_FC\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

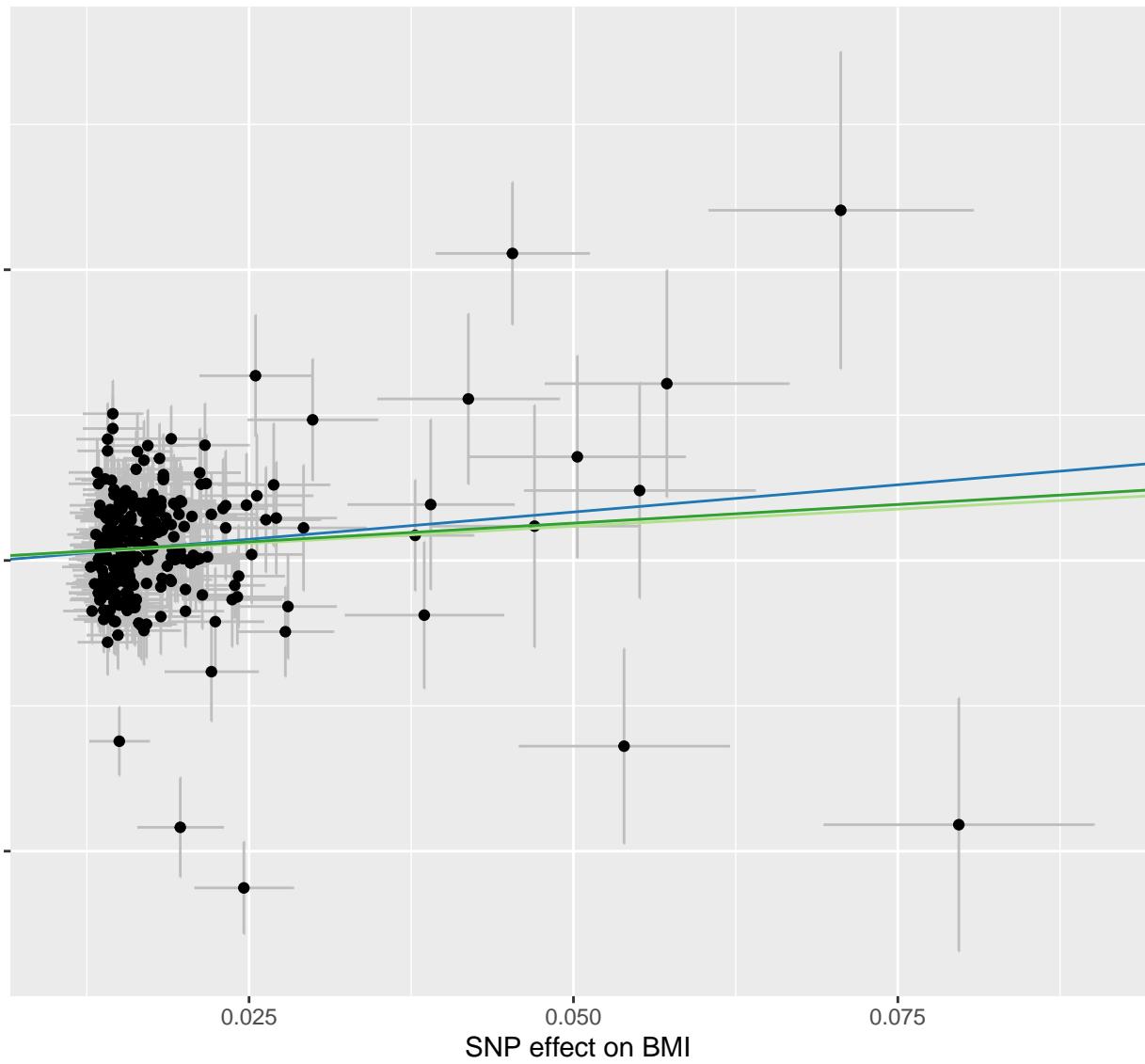


Weighted median



Weighted mode

SNP effect on LDL\_TG\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



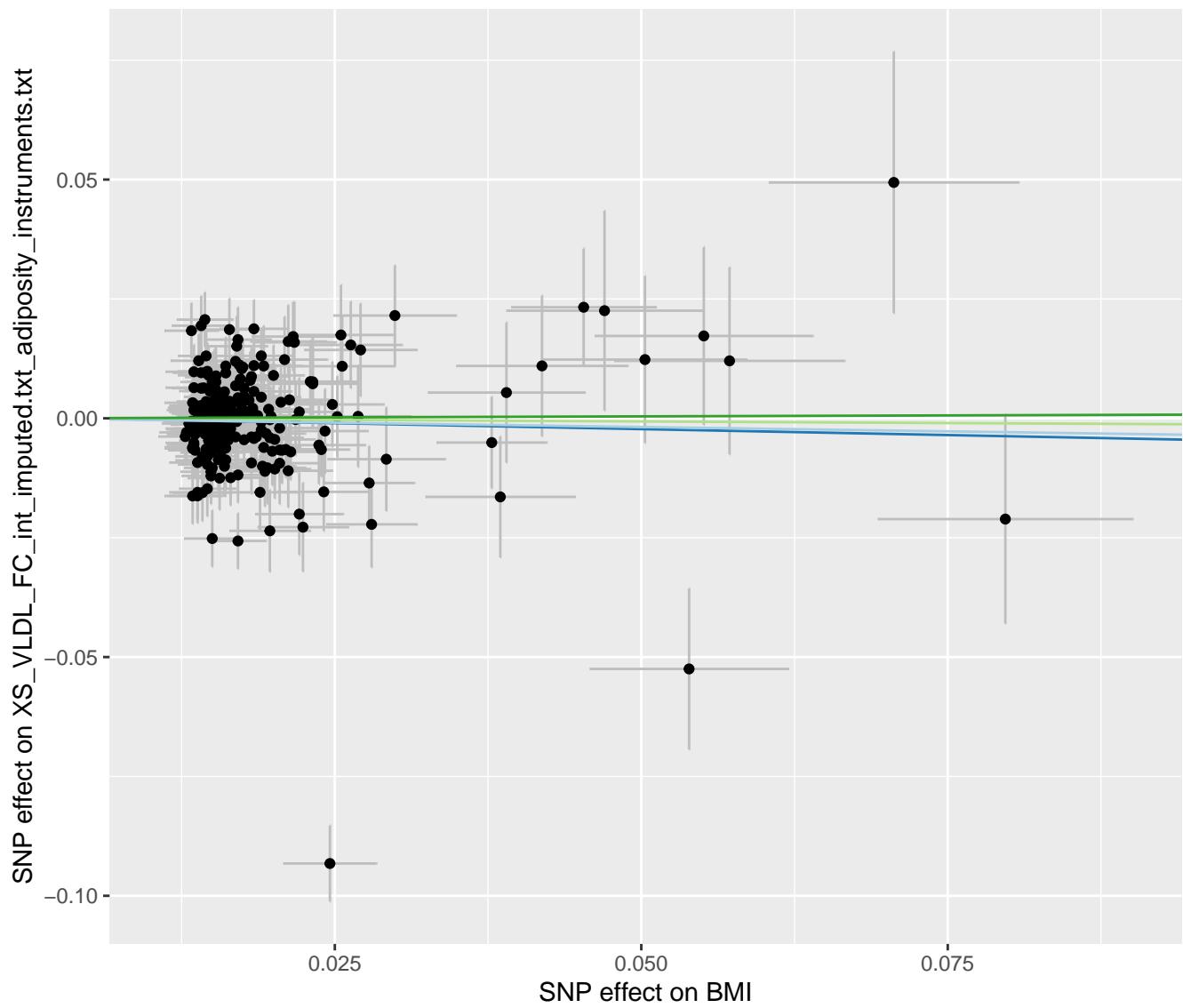
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



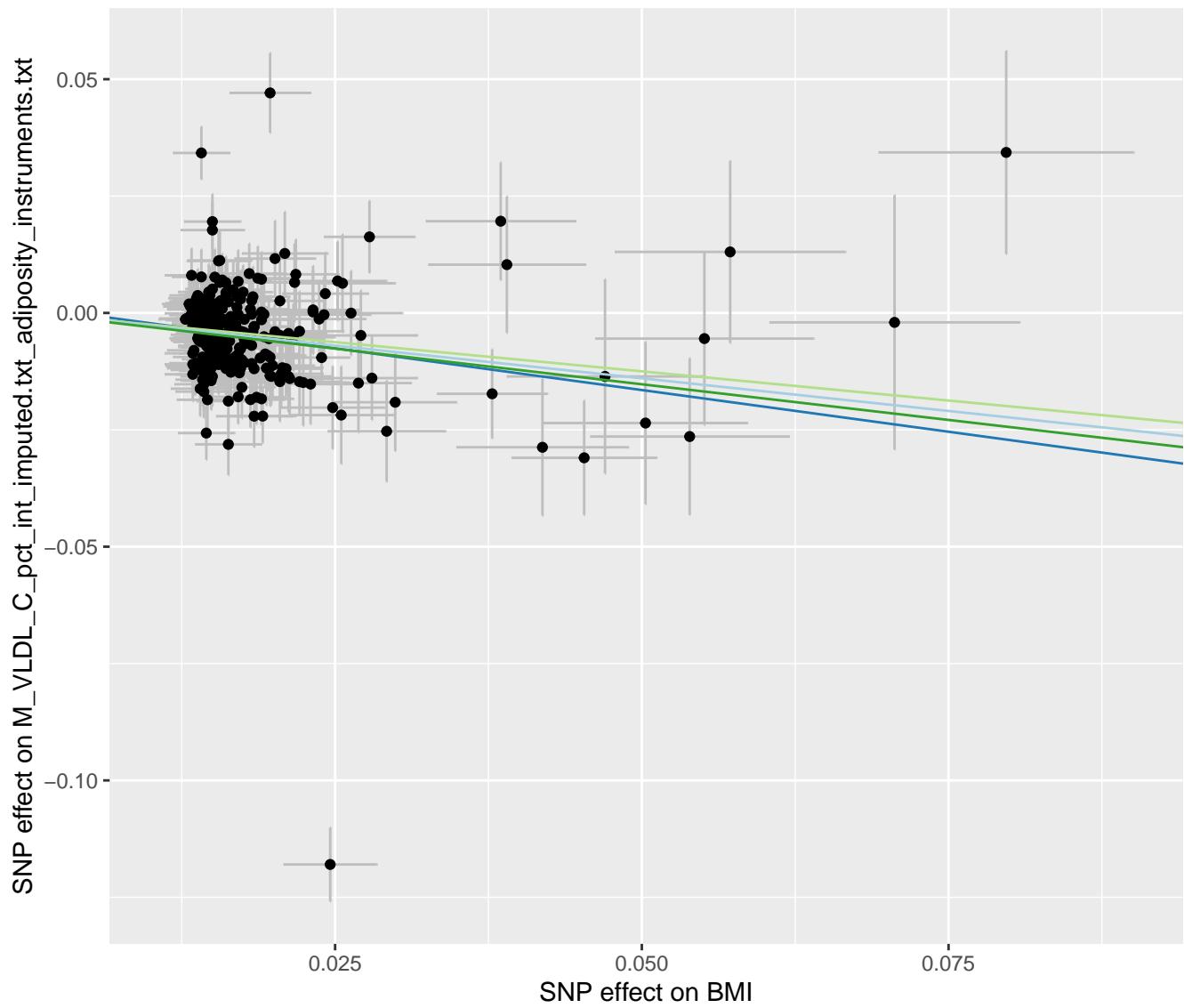
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

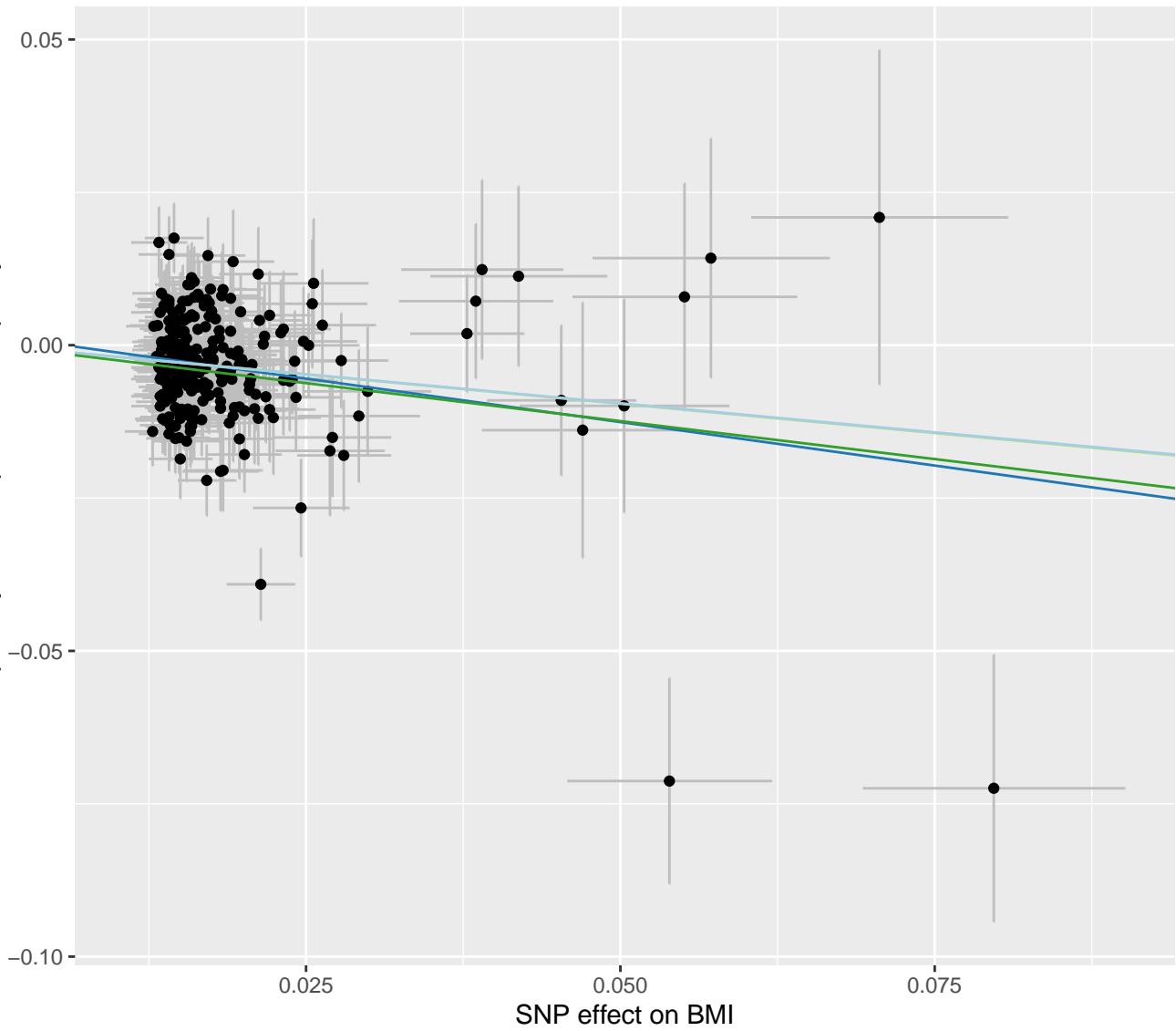


Weighted median



Weighted mode

SNP effect on Phosphatidylc\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



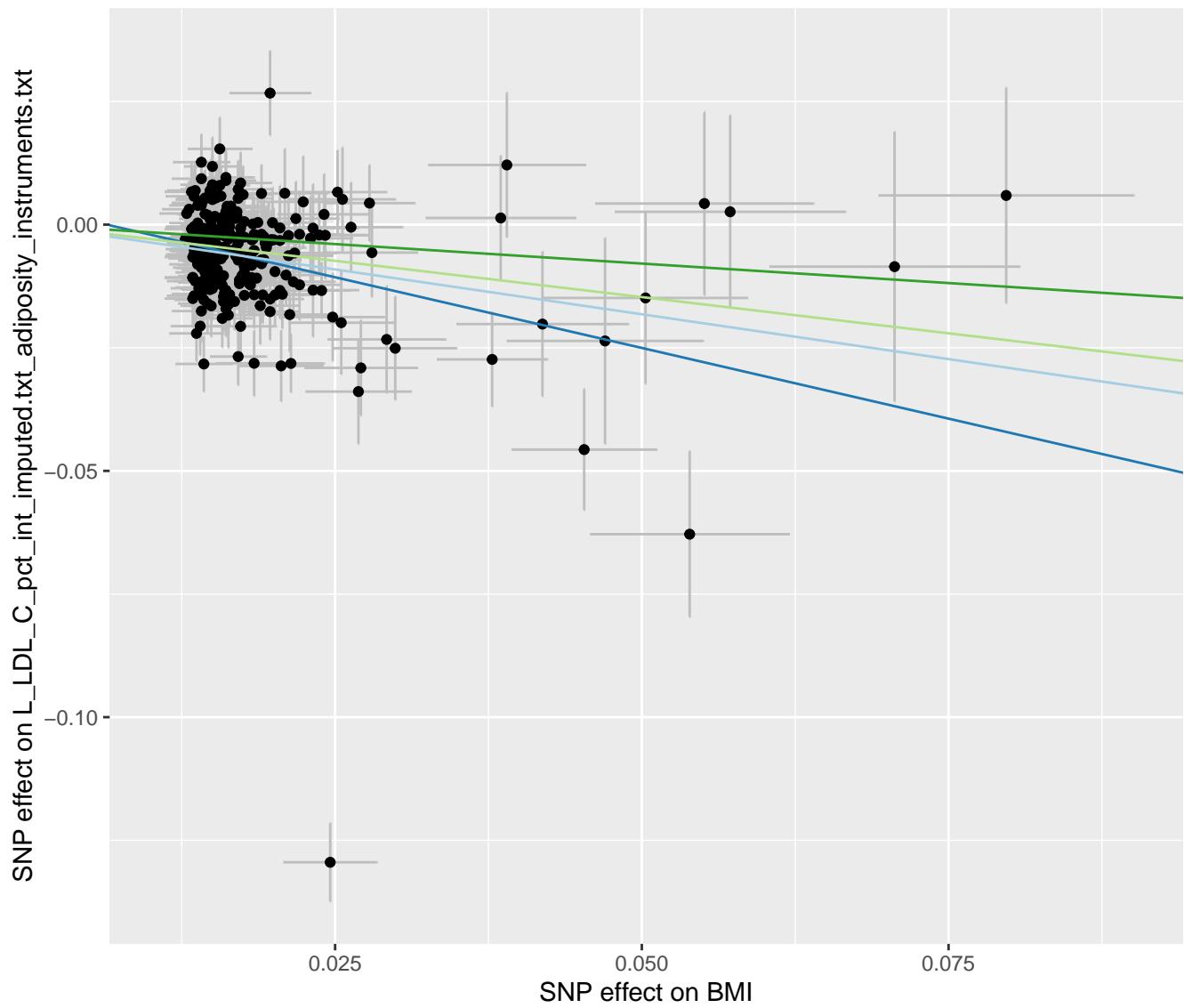
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



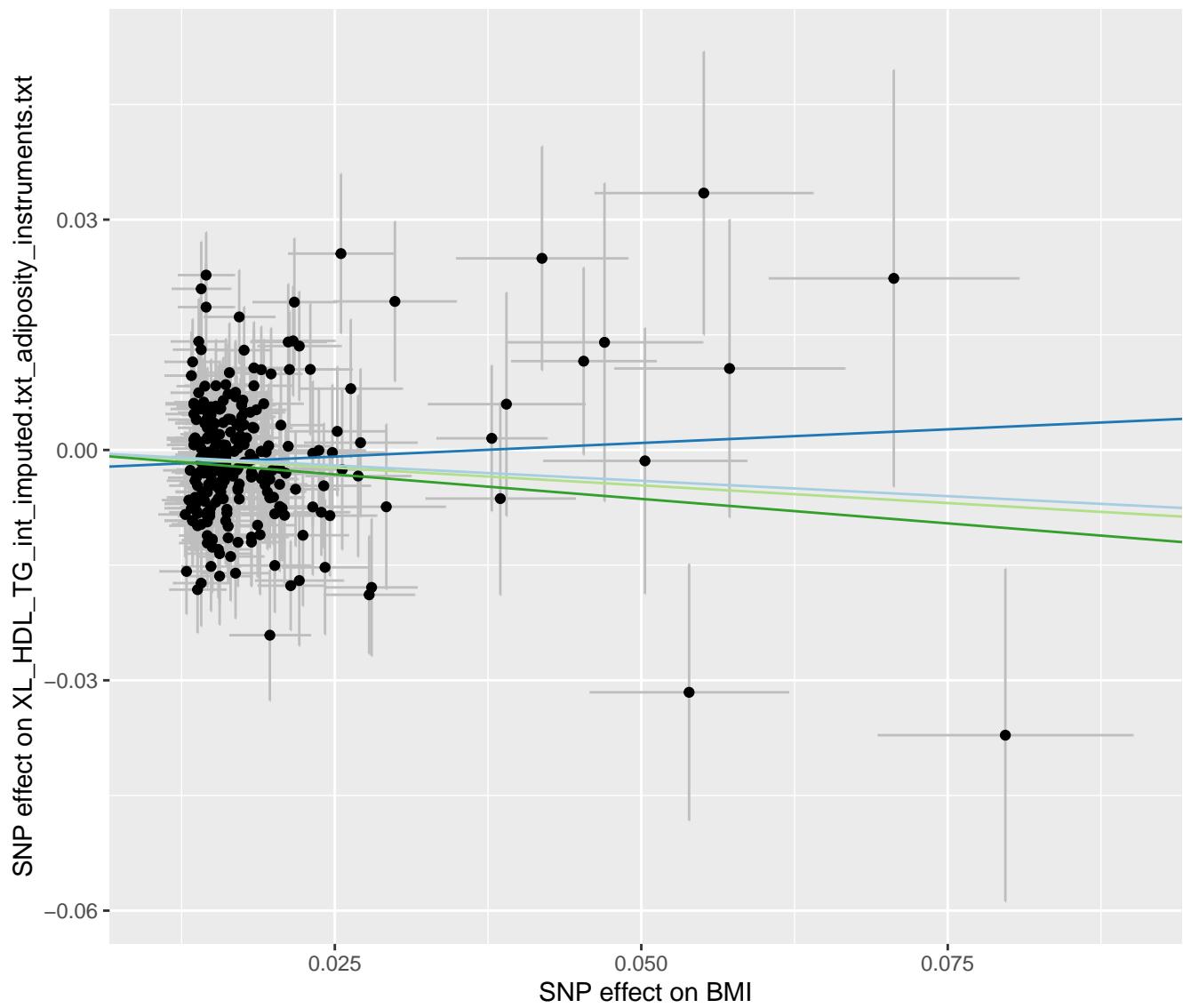
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



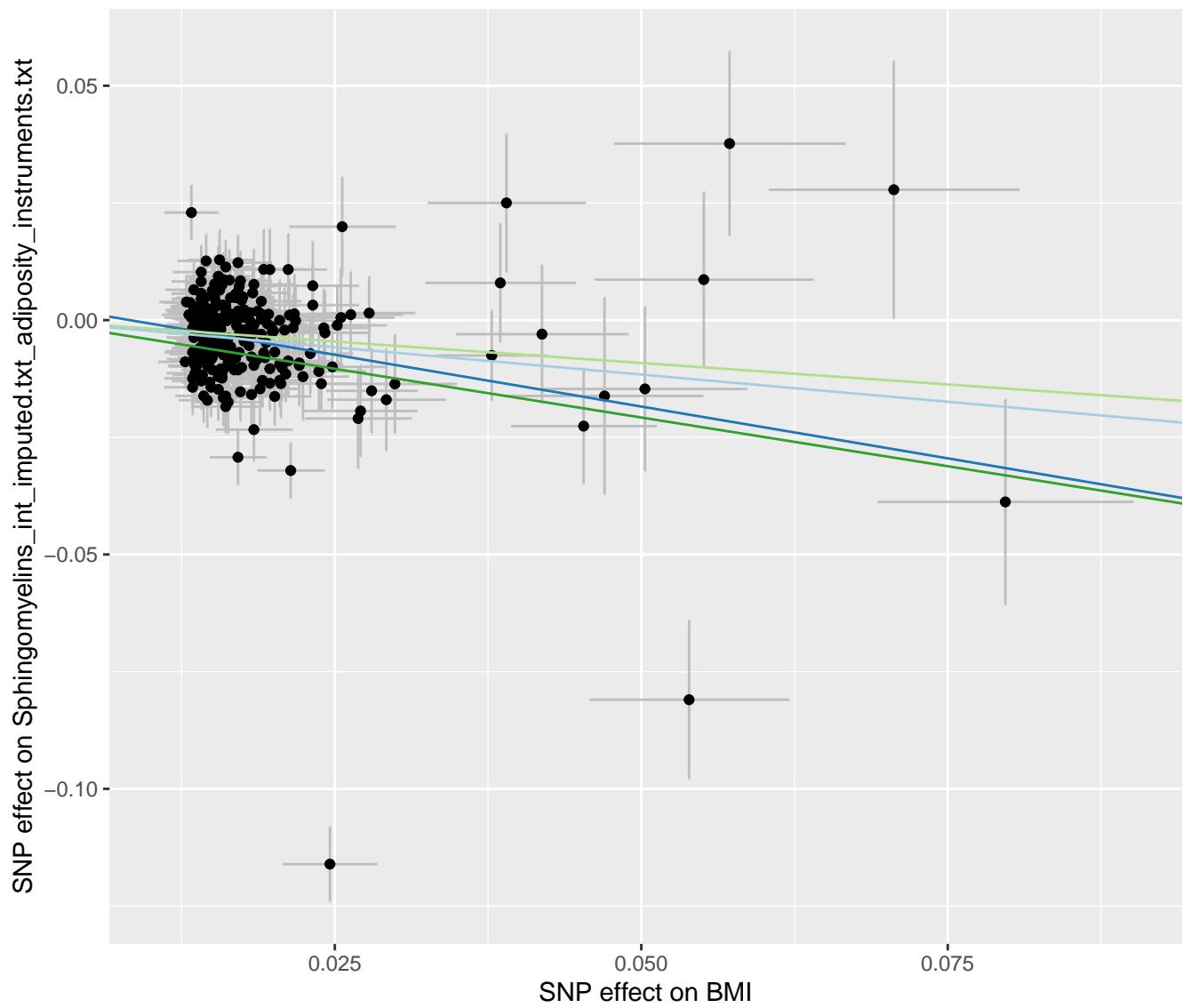
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



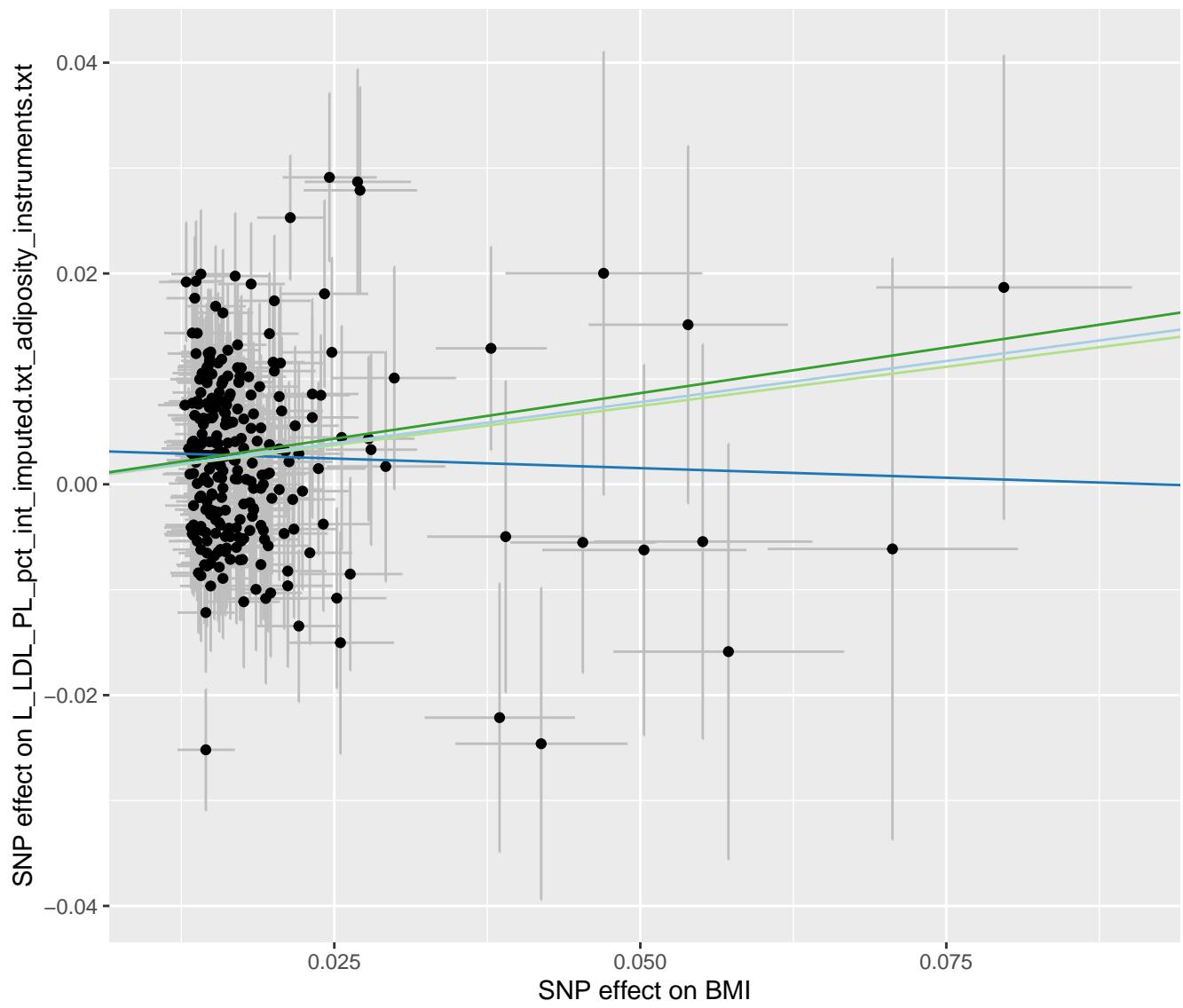
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

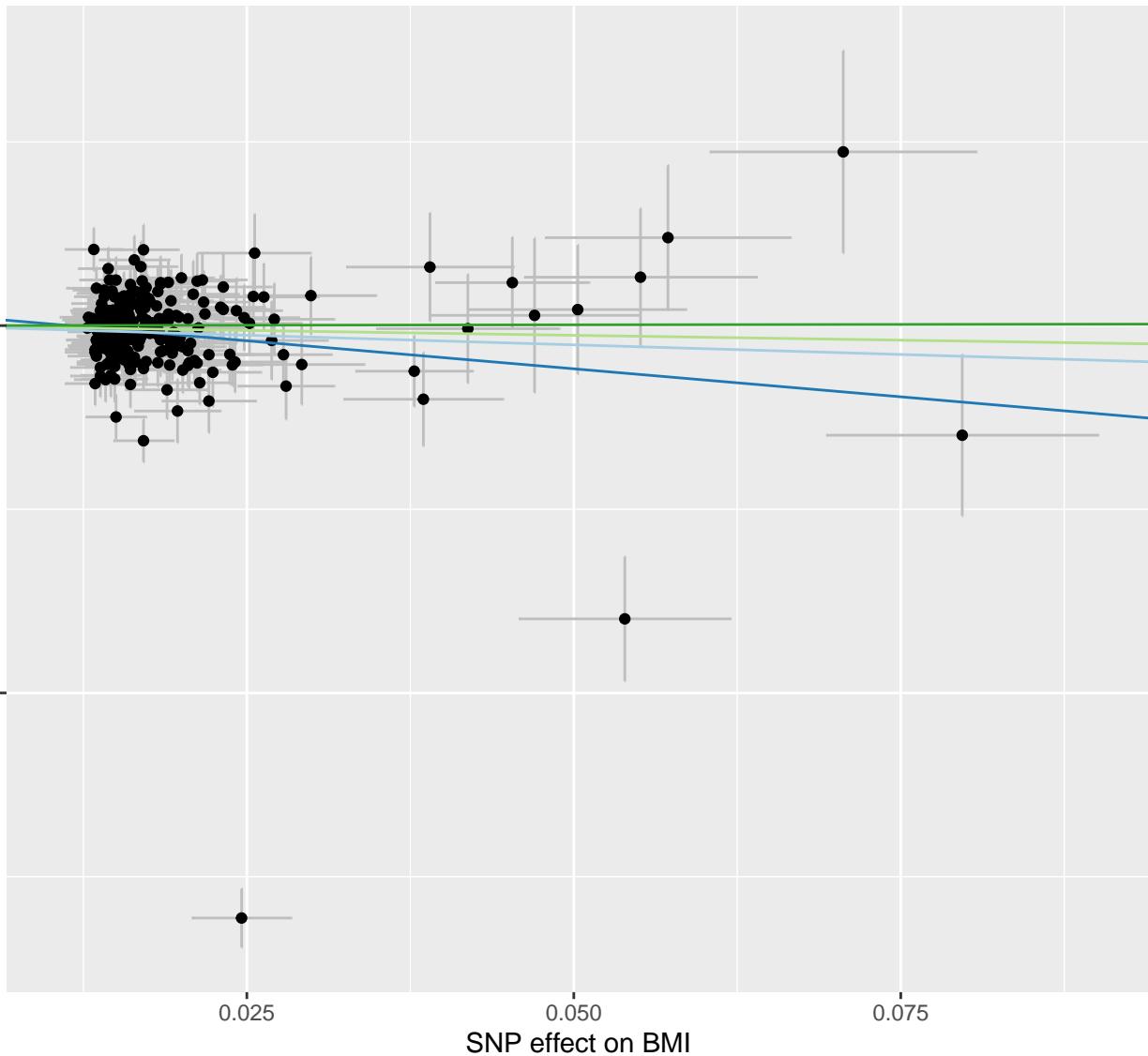


Weighted median



Weighted mode

SNP effect on non\_HDL\_C\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

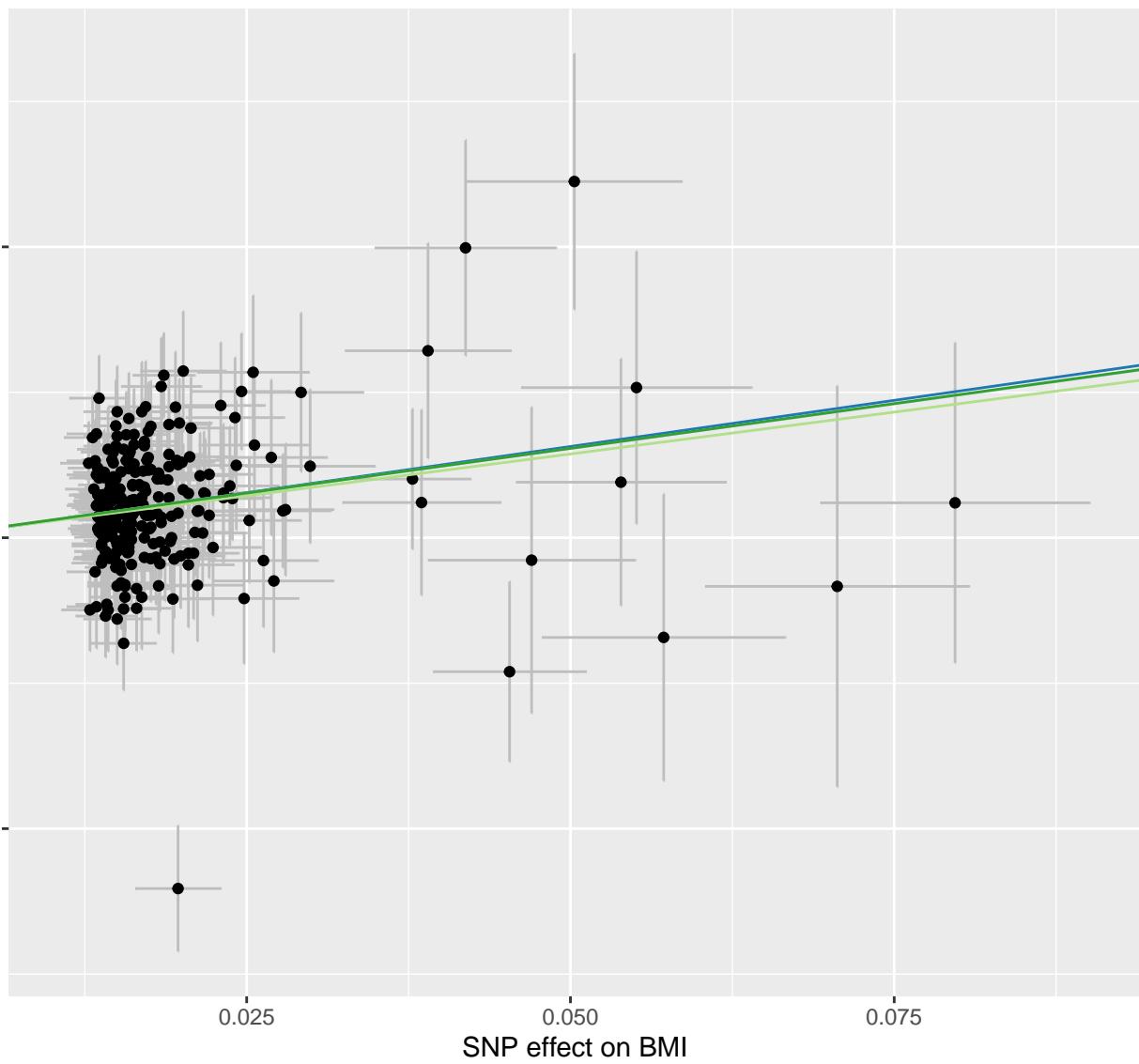


Weighted median



Weighted mode

SNP effect on Total\_BCAA\_int\_imputed.txt\_adiposity\_instruments.txt



MR Test

1

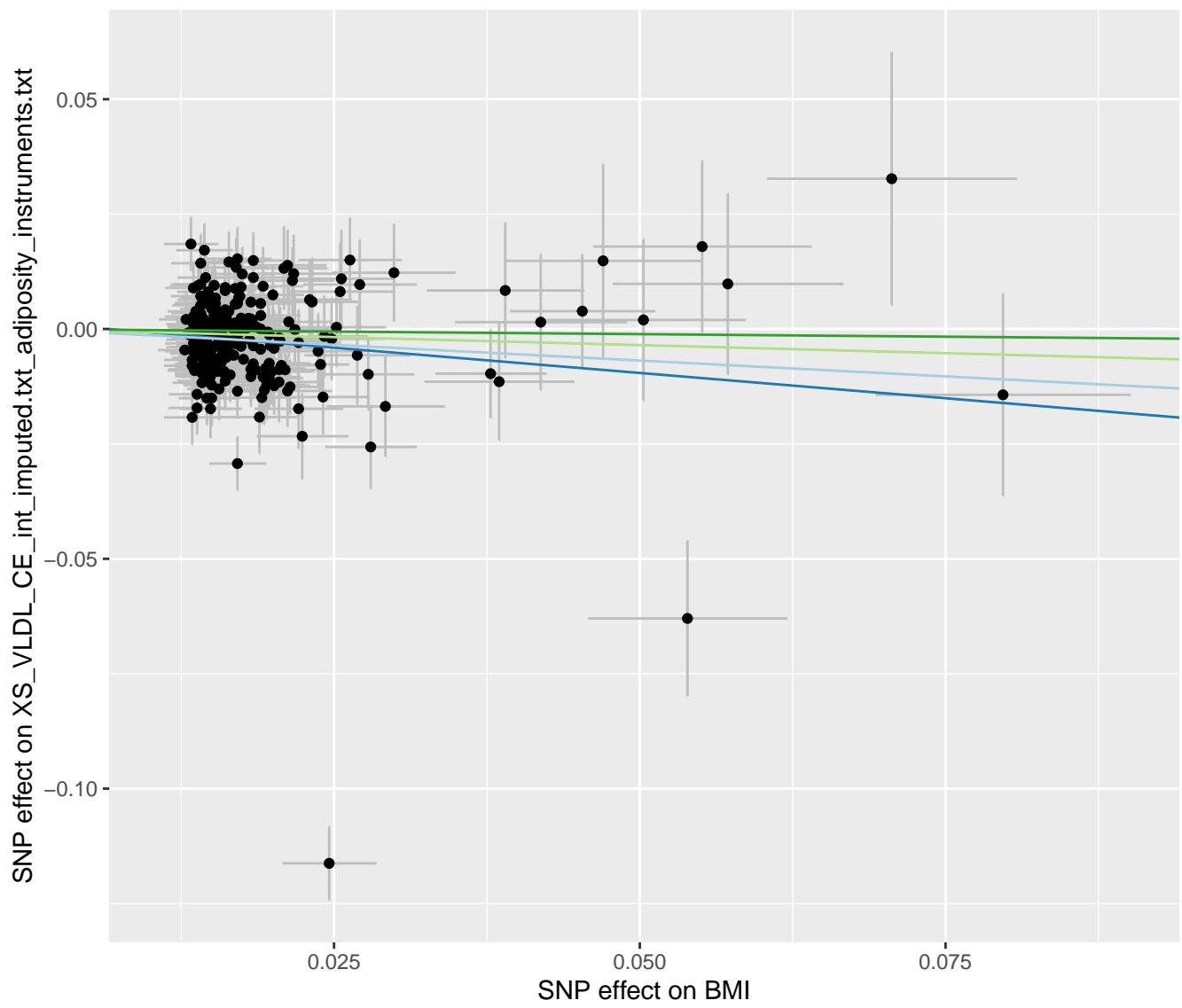
### Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

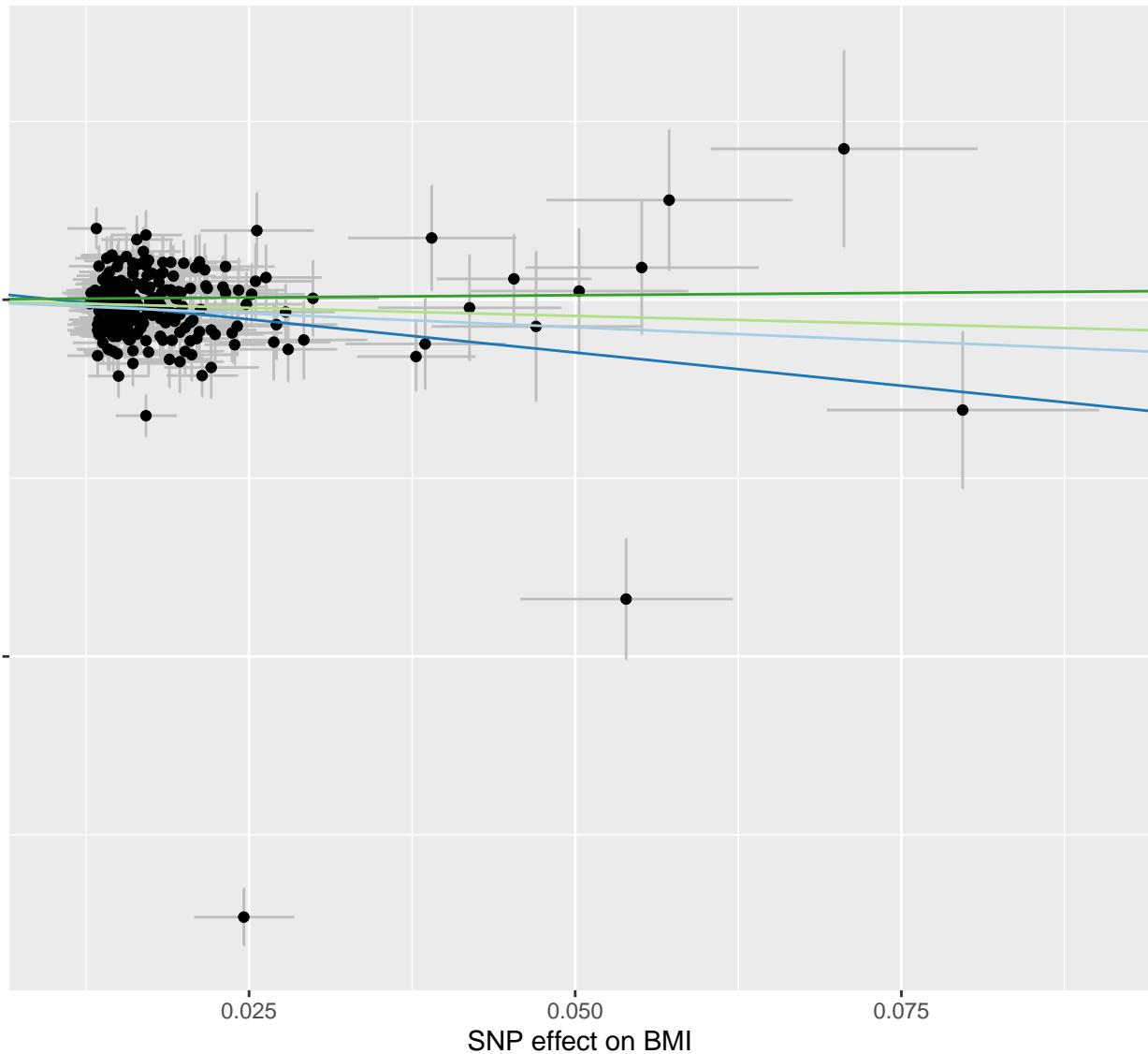


Weighted median



Weighted mode

SNP effect on L\_LDL\_CE\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



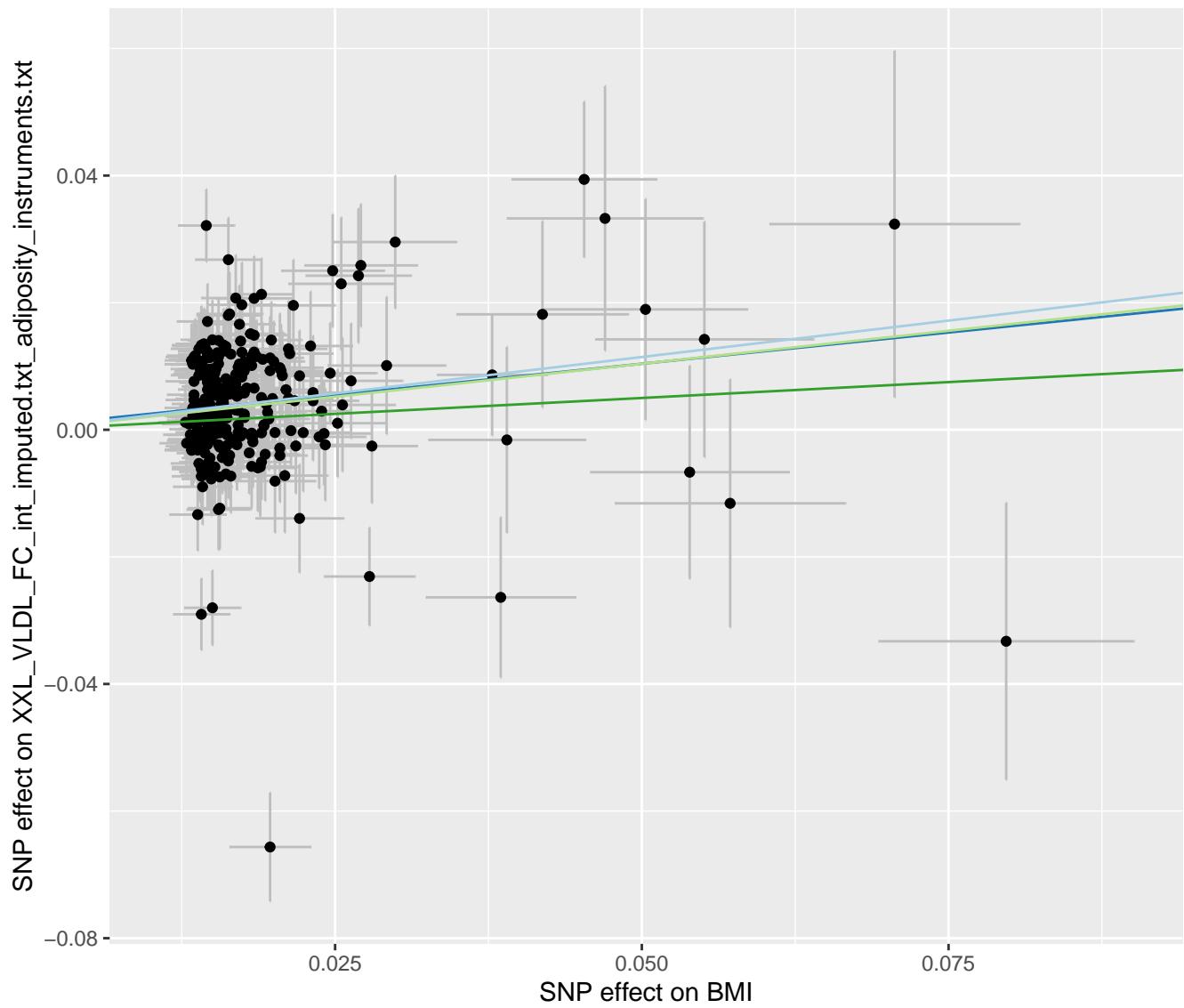
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



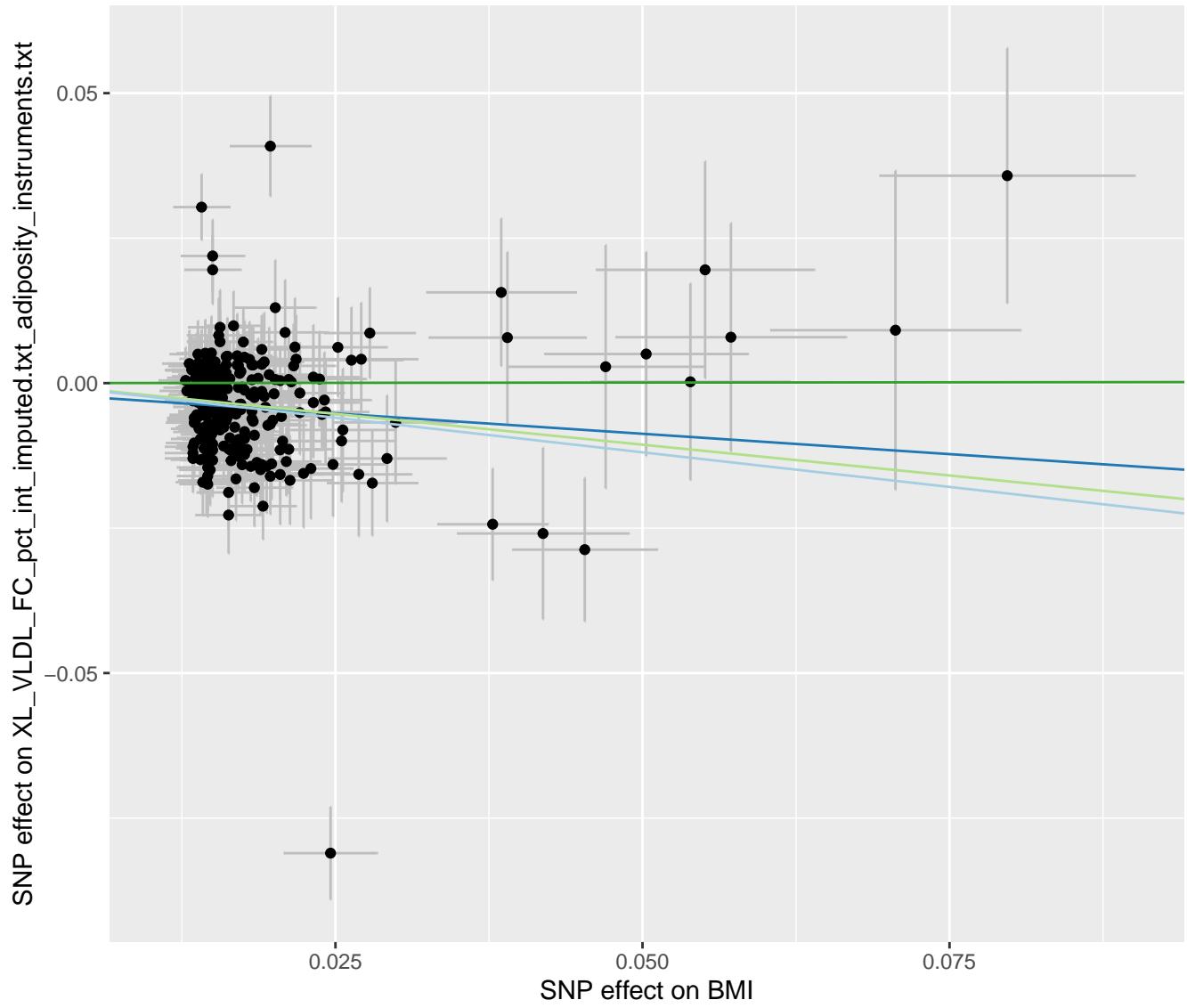
MR Egger



Weighted median



Weighted mode



MR Test

A blue line that slopes upwards from left to right.

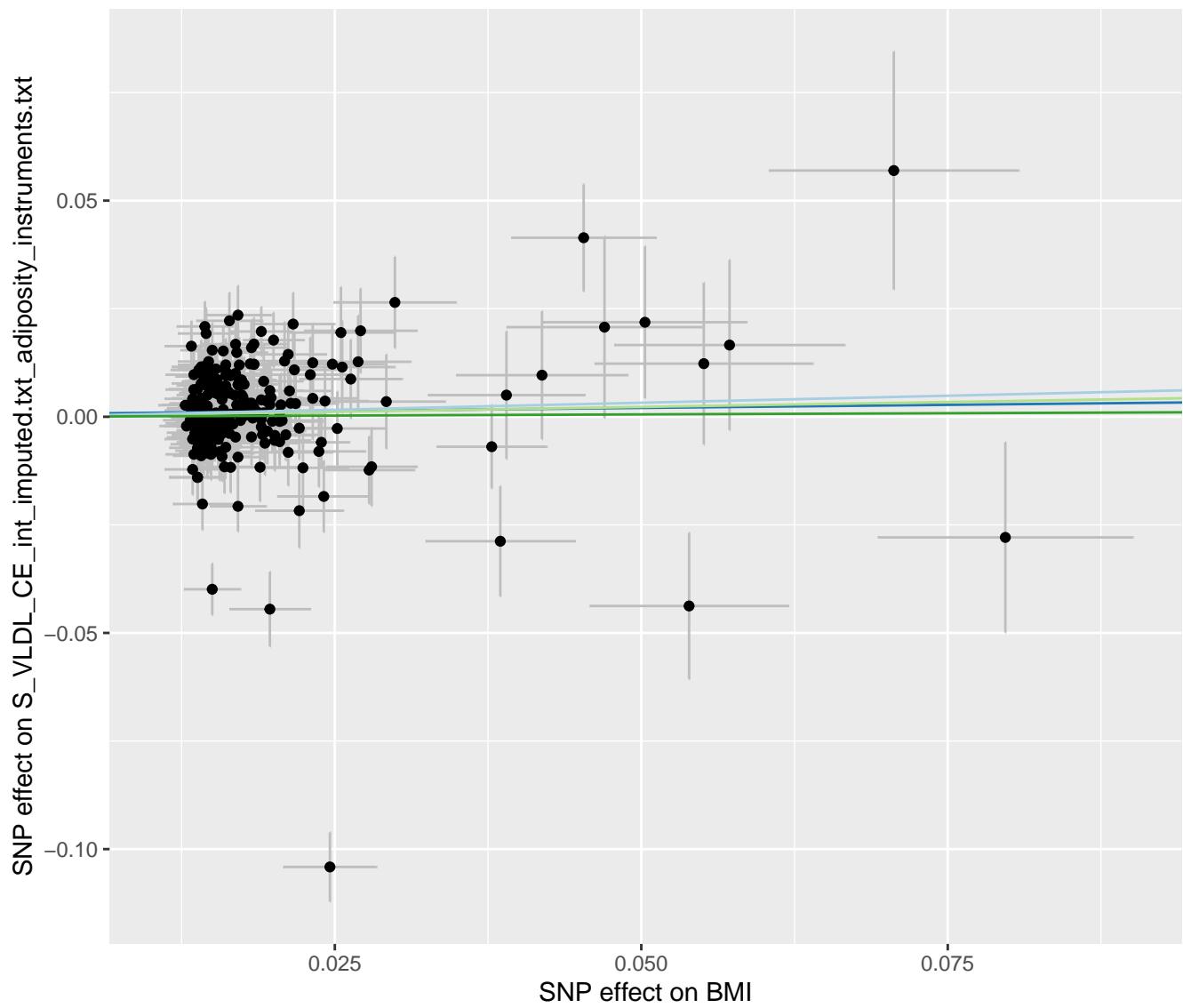
Inverse variance weighted (multiplicative random effects)

MR Egger

10 of 10

## Weighted median

## Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on HDL\_CE\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

0.075

0.050

0.025

0.000

-0.025

-0.050

# MR Test



Inverse variance weighted (multiplicative random effects)



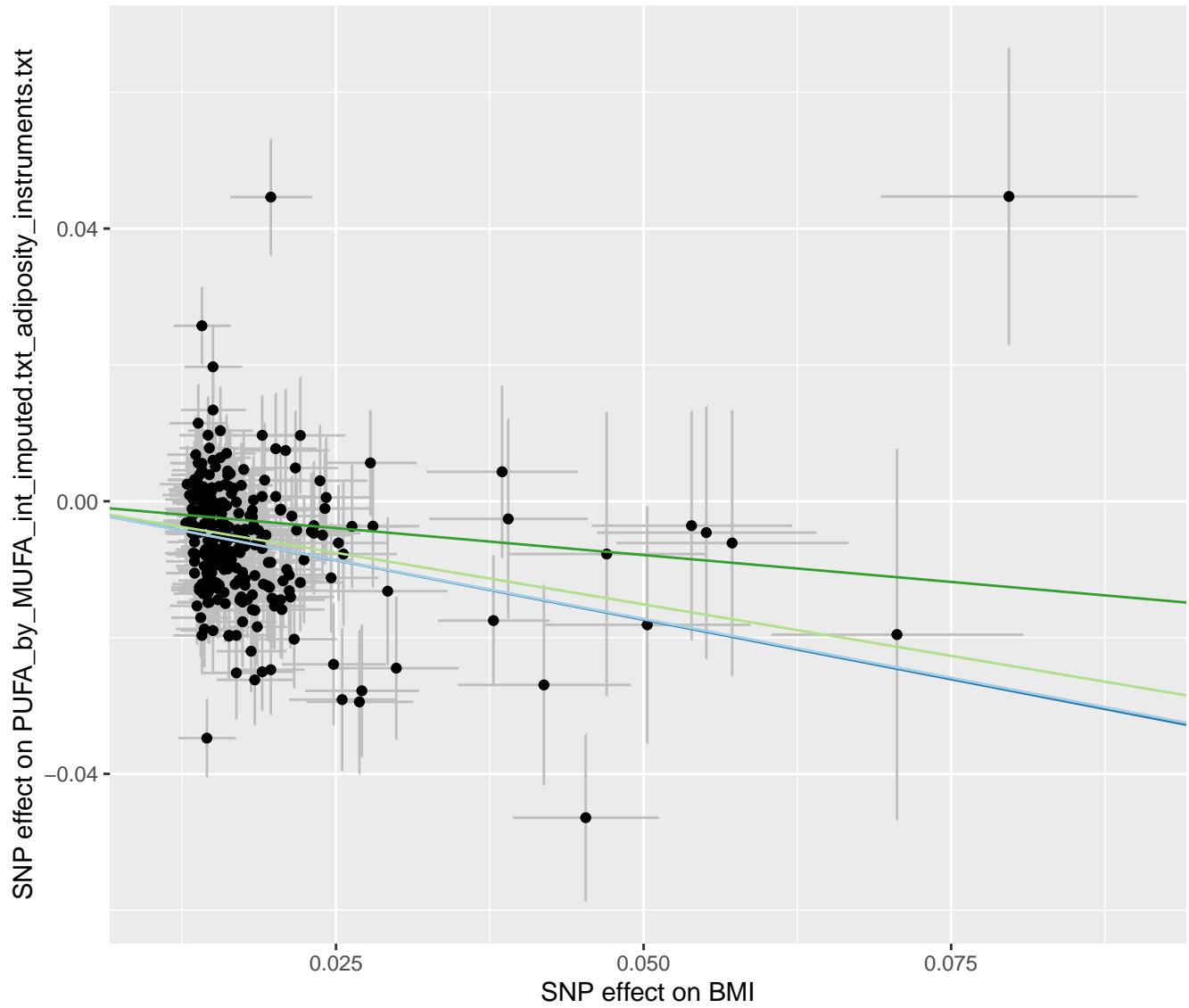
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



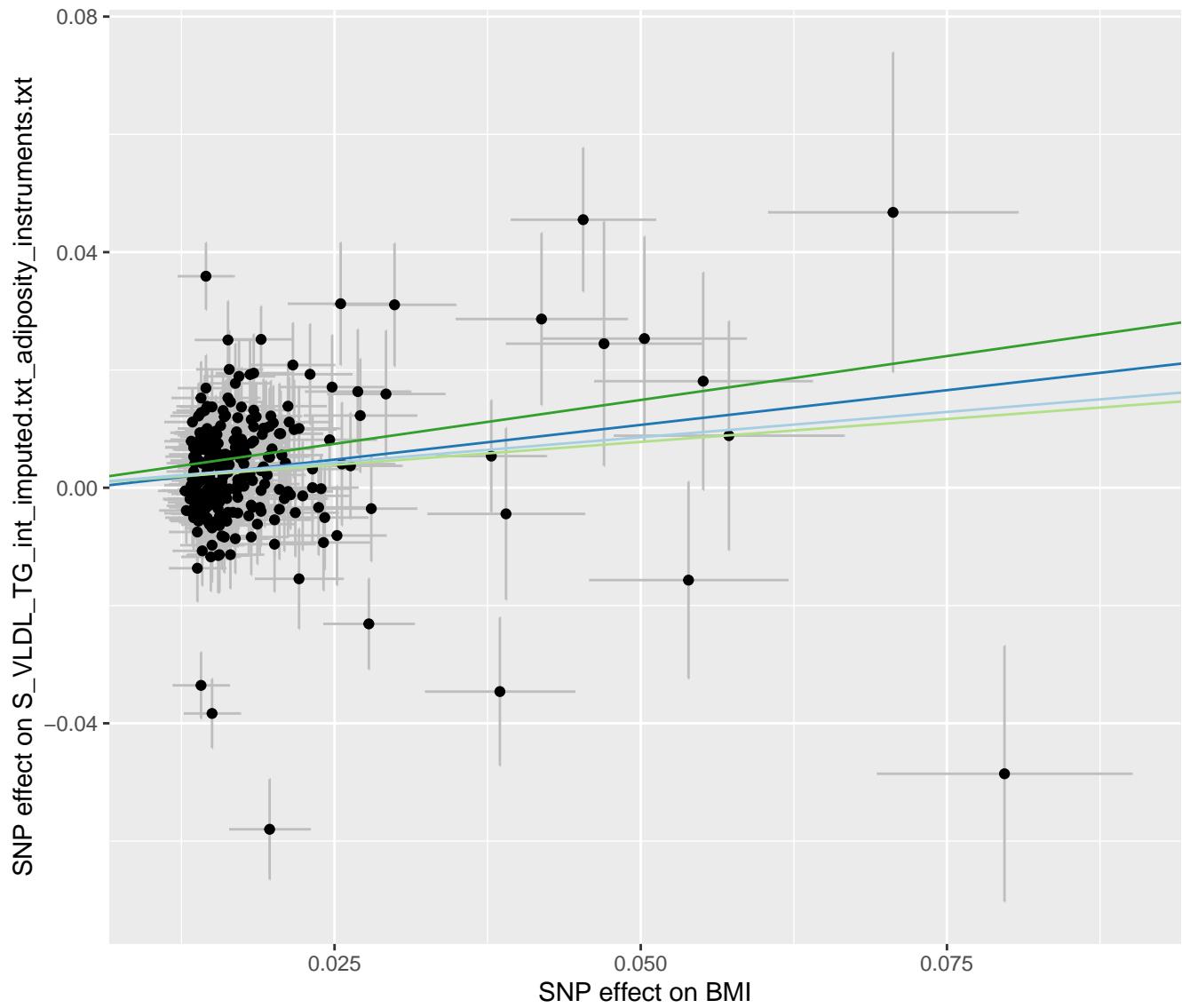
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



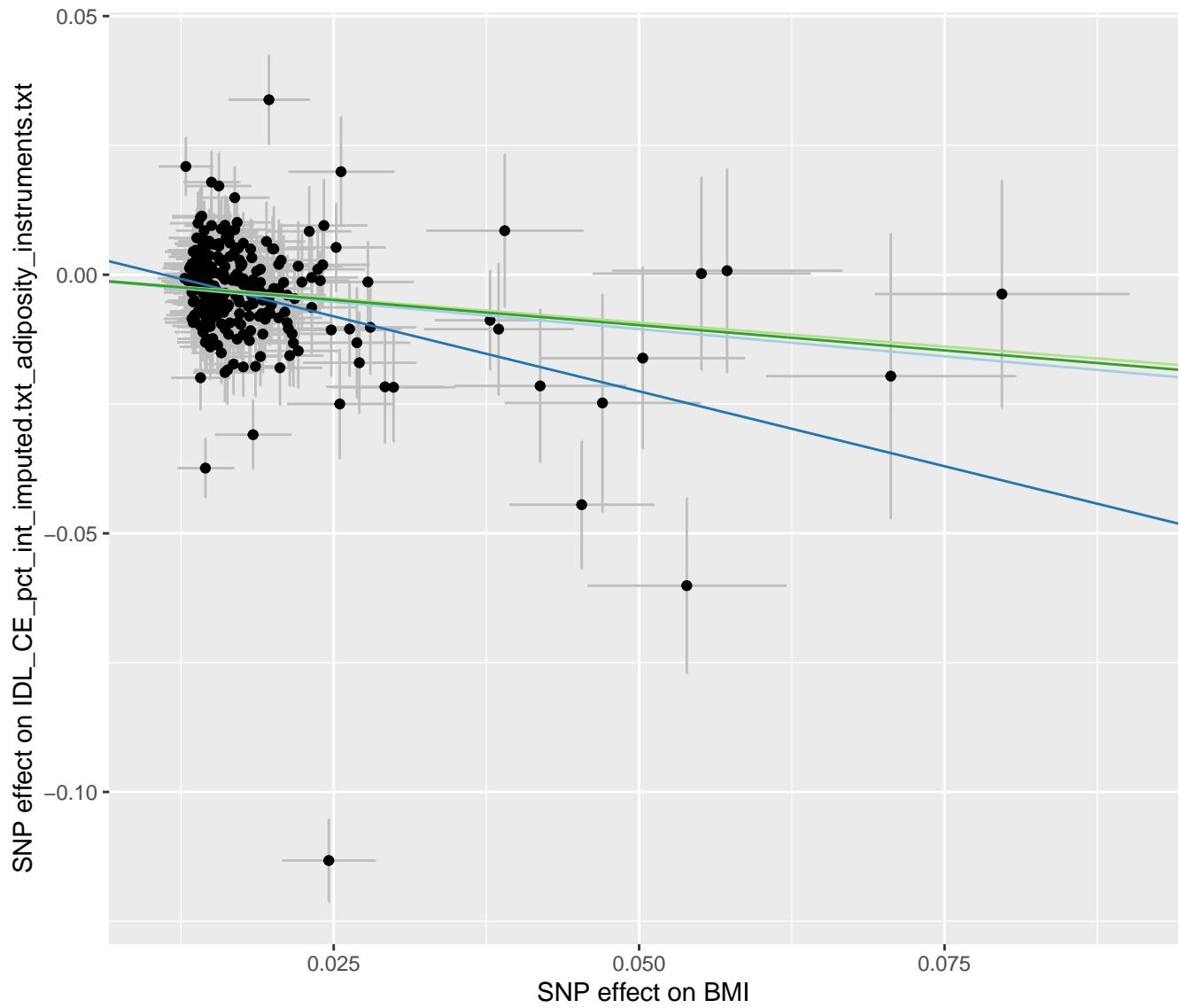
MR Egger



Weighted median



Weighted mode



MR Test

10

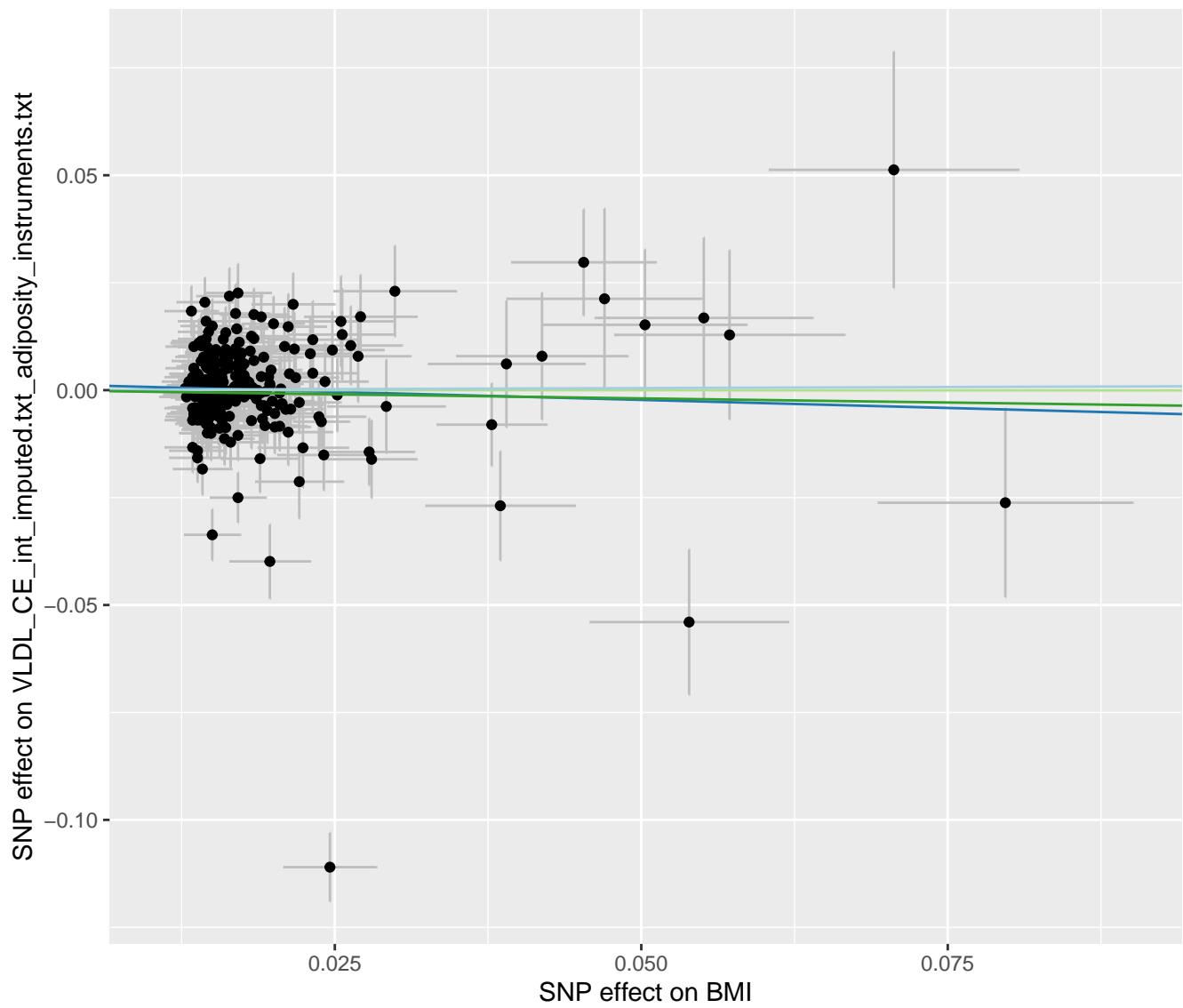
### Inverse variance weighted (multiplicative random effects)

MR Egger

10 of 10

## Weighted median

## Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



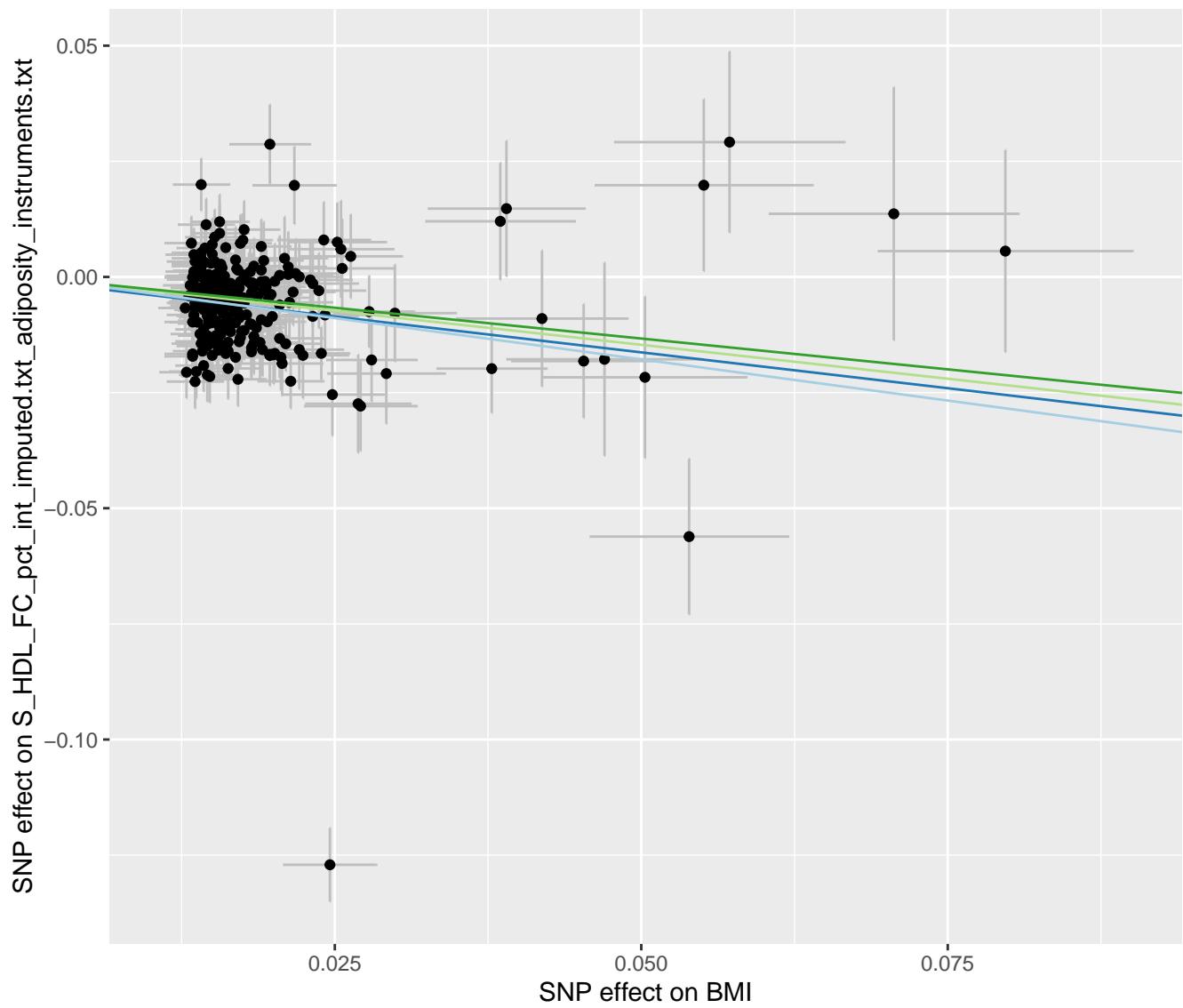
MR Egger



Weighted median



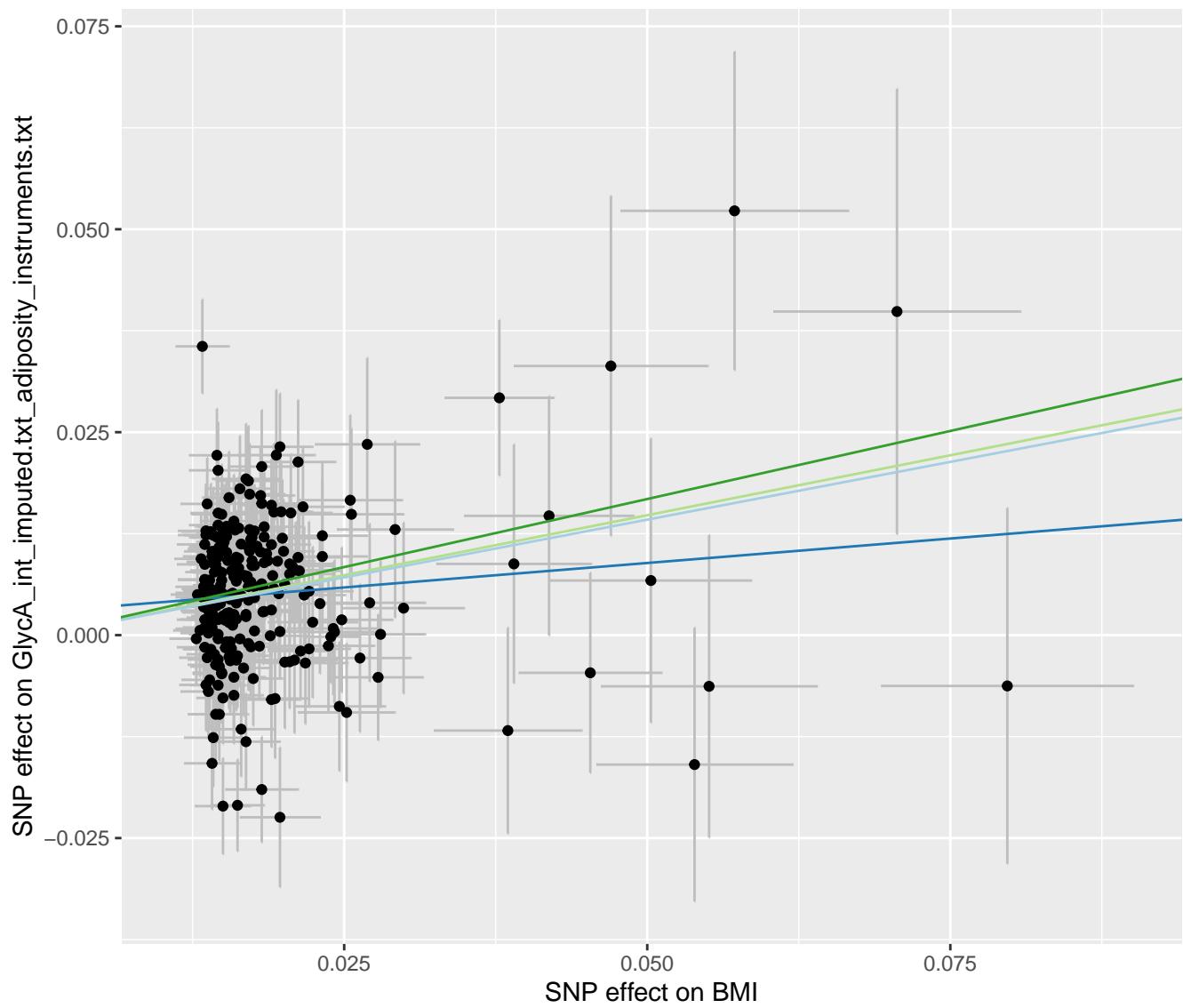
Weighted mode



### 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 VLDL\_L\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

0.075

# MR Test



Inverse variance weighted (multiplicative random effects)



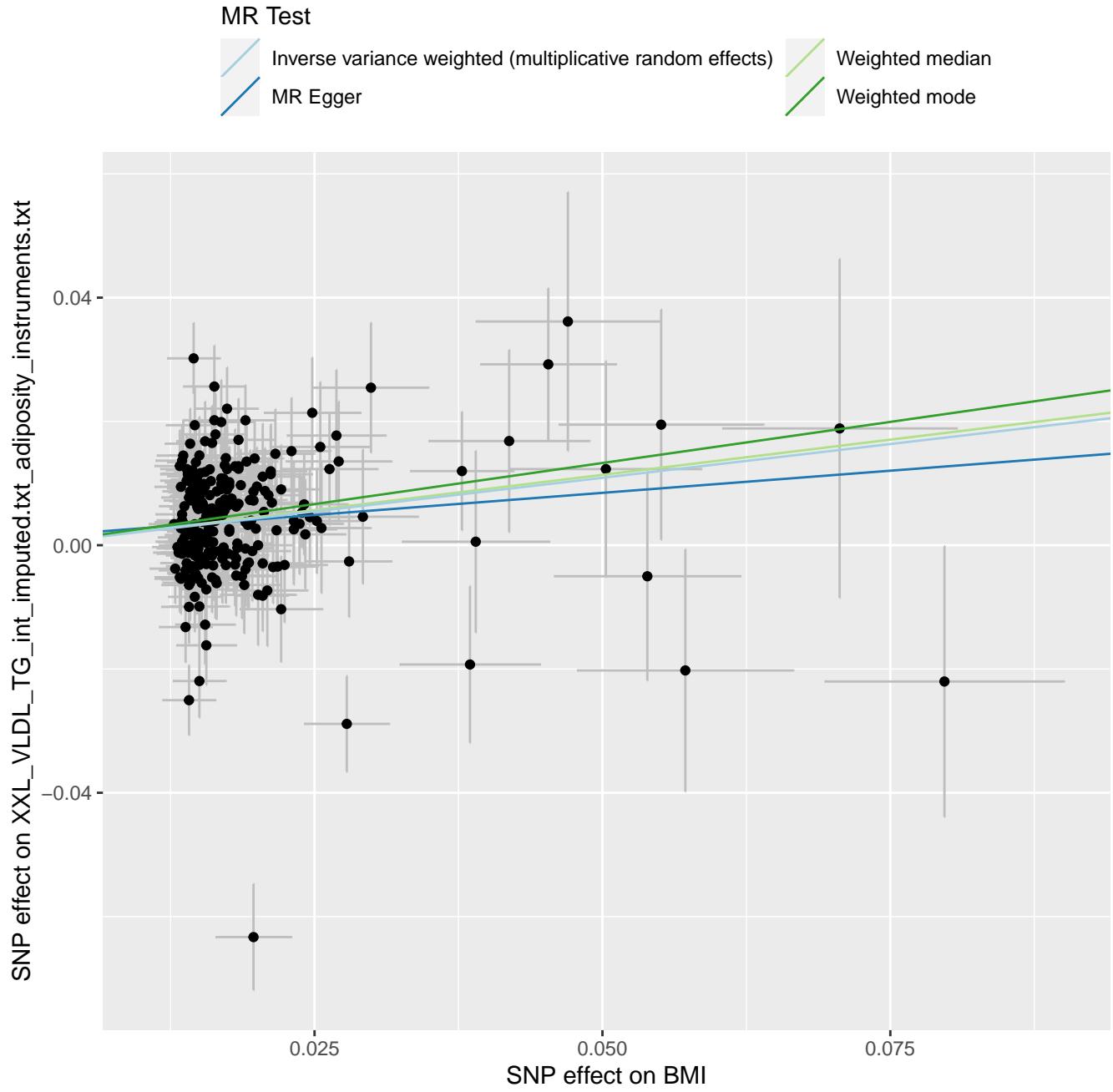
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

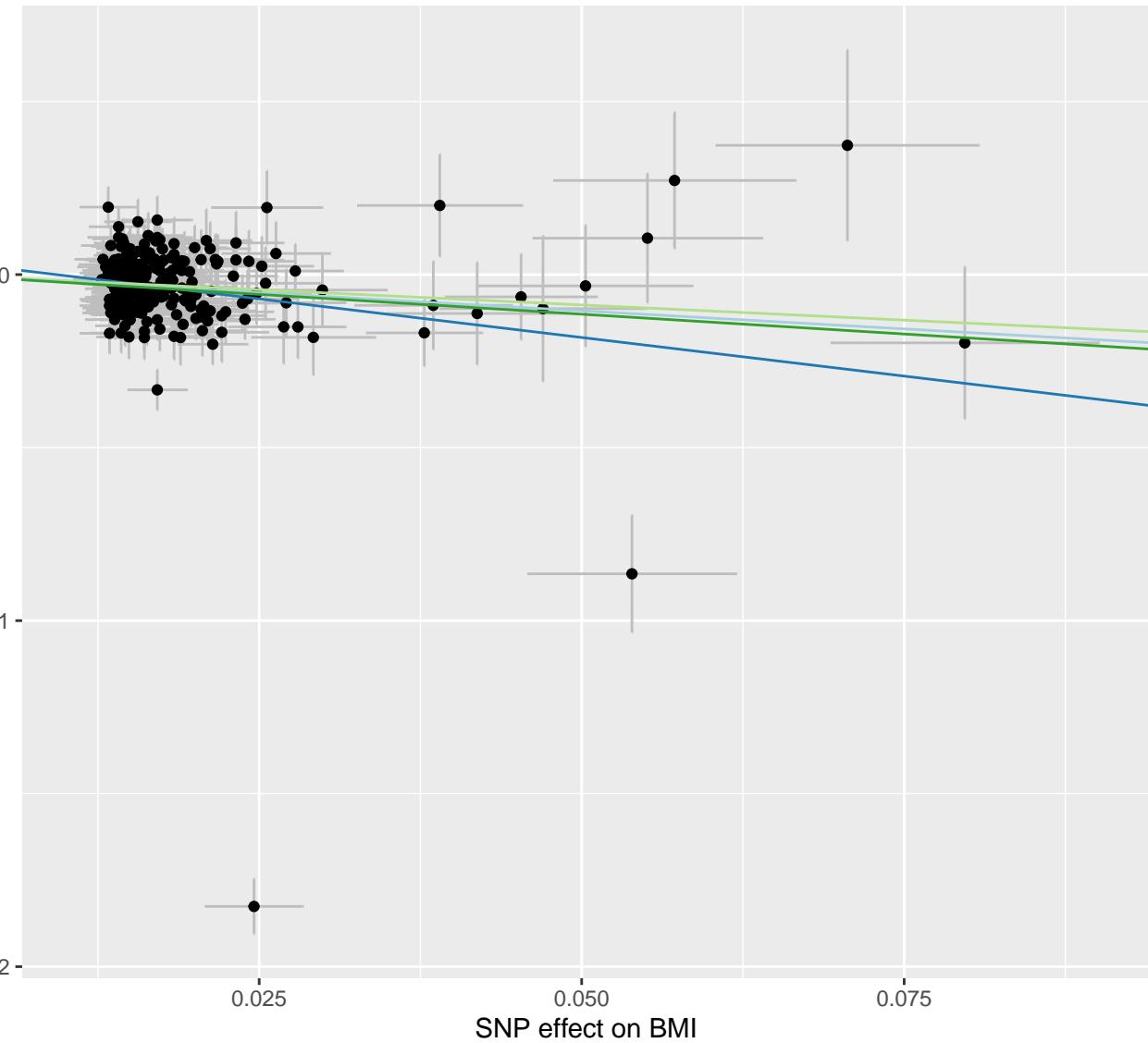


Weighted median



Weighted mode

SNP effect on L\_LDL\_FC\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on VLDL\_C\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

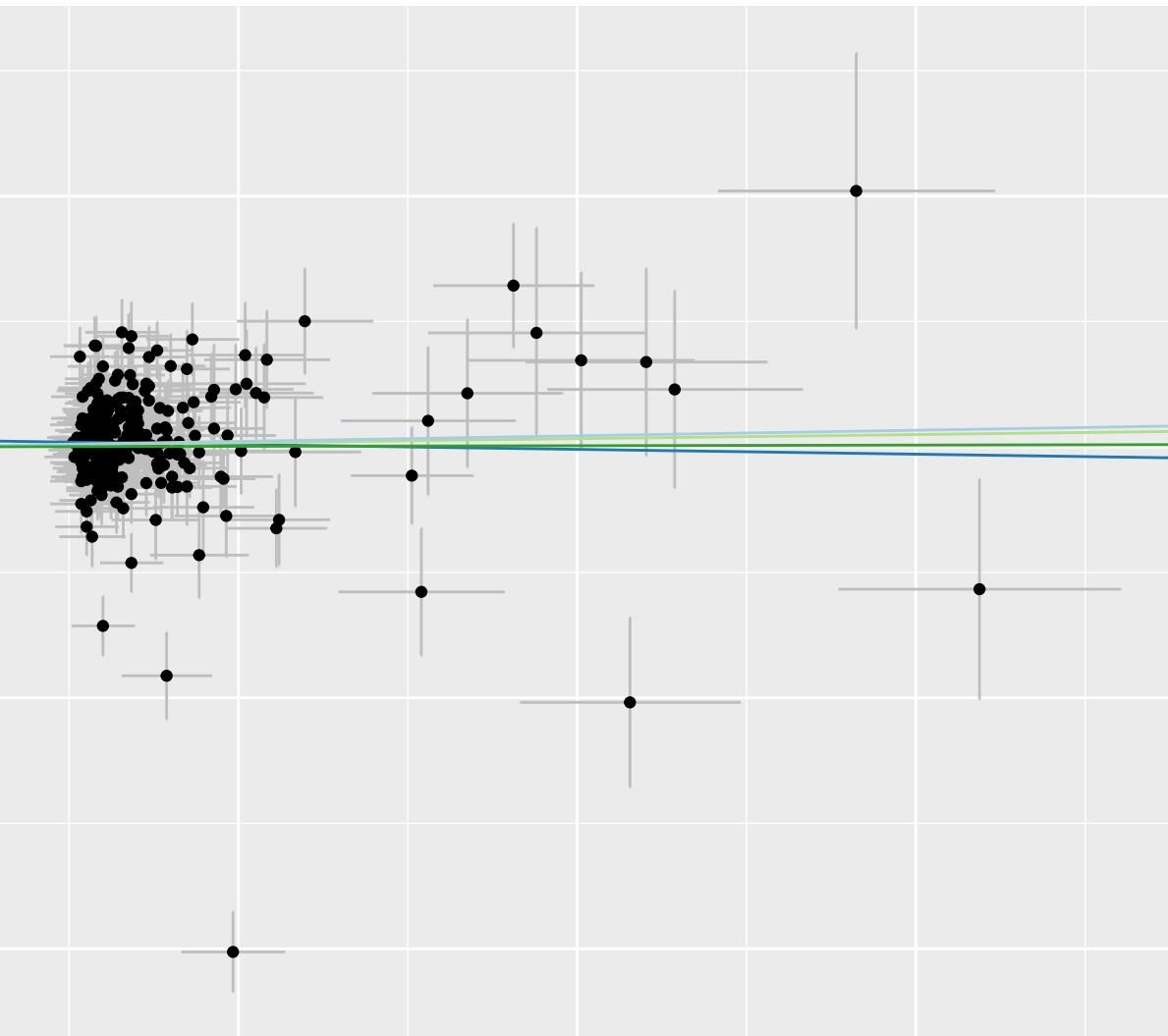
0.075

0.05

0.00

-0.05

-0.10



# MR Test



Inverse variance weighted (multiplicative random effects)



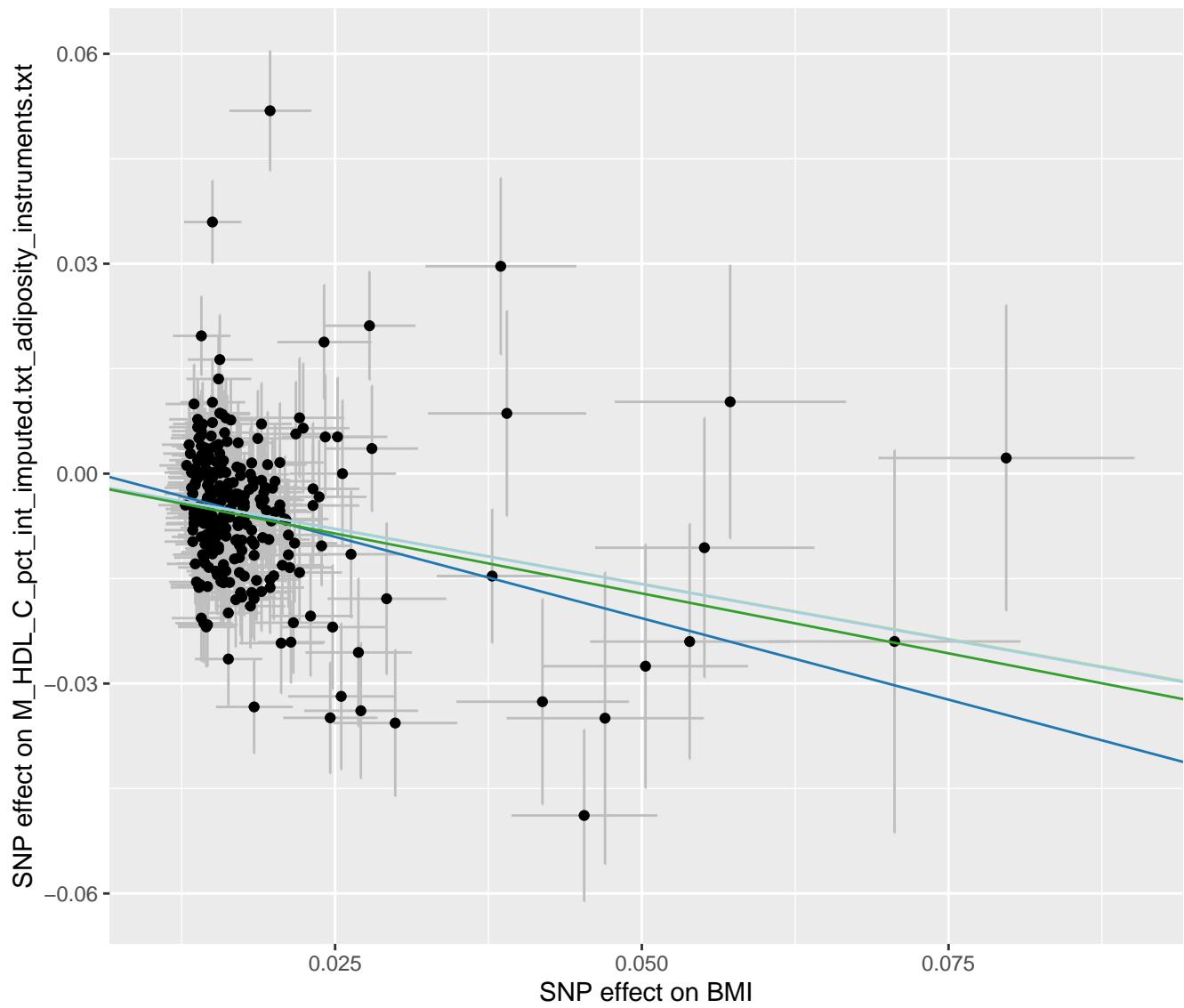
MR Egger



Weighted median



Weighted mode



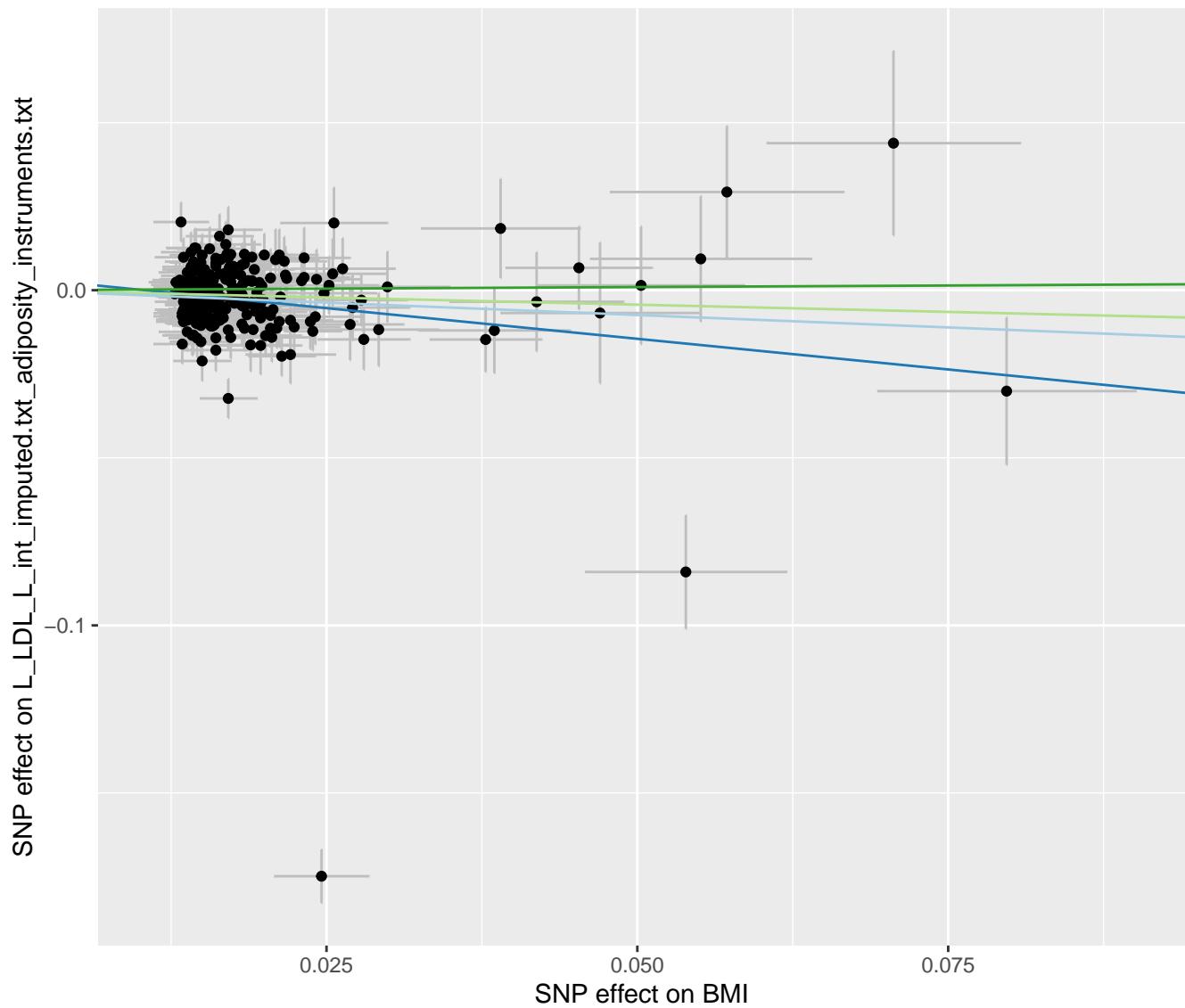
## MR Test

Inverse variance weighted (multiplicative random effects)

MR Egger

## Weighted median

## Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

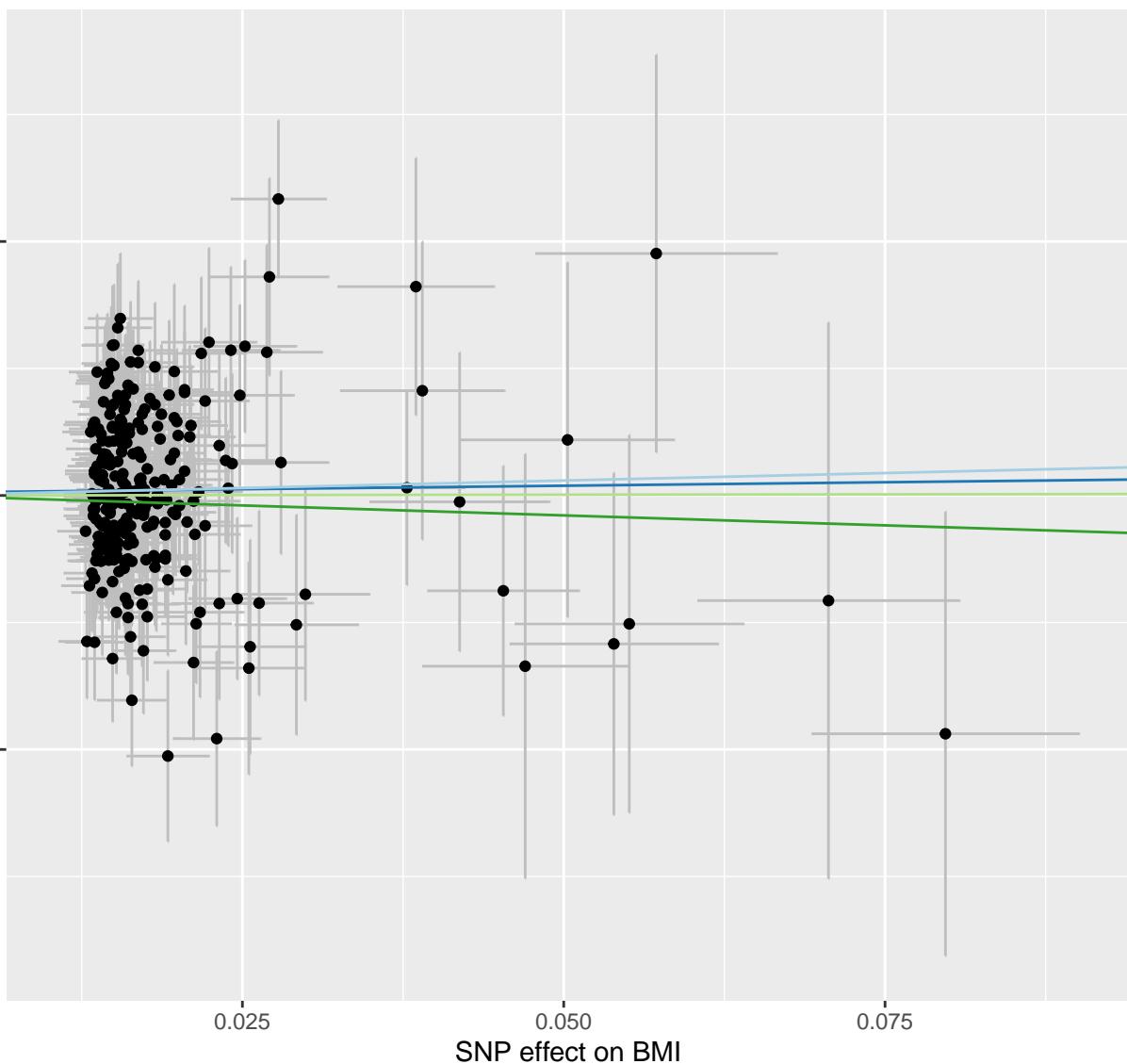


Weighted median



Weighted mode

SNP effect on Omega\_6\_by\_Omega\_3\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

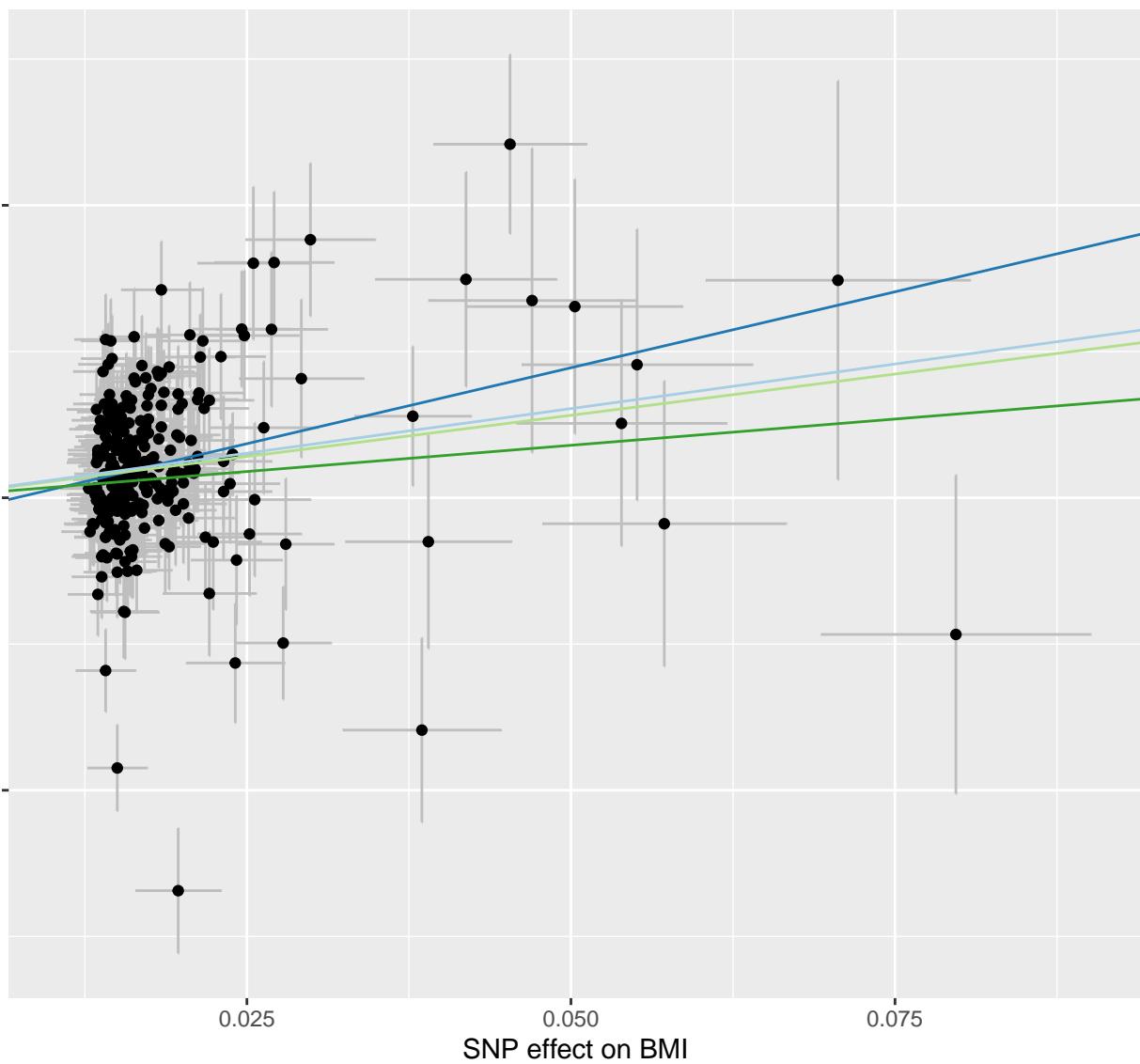


Weighted median



Weighted mode

SNP effect on M\_HDL\_TG\_pct\_int\_imputed.txt\_adiposity\_instruments.txt



MR Test

1

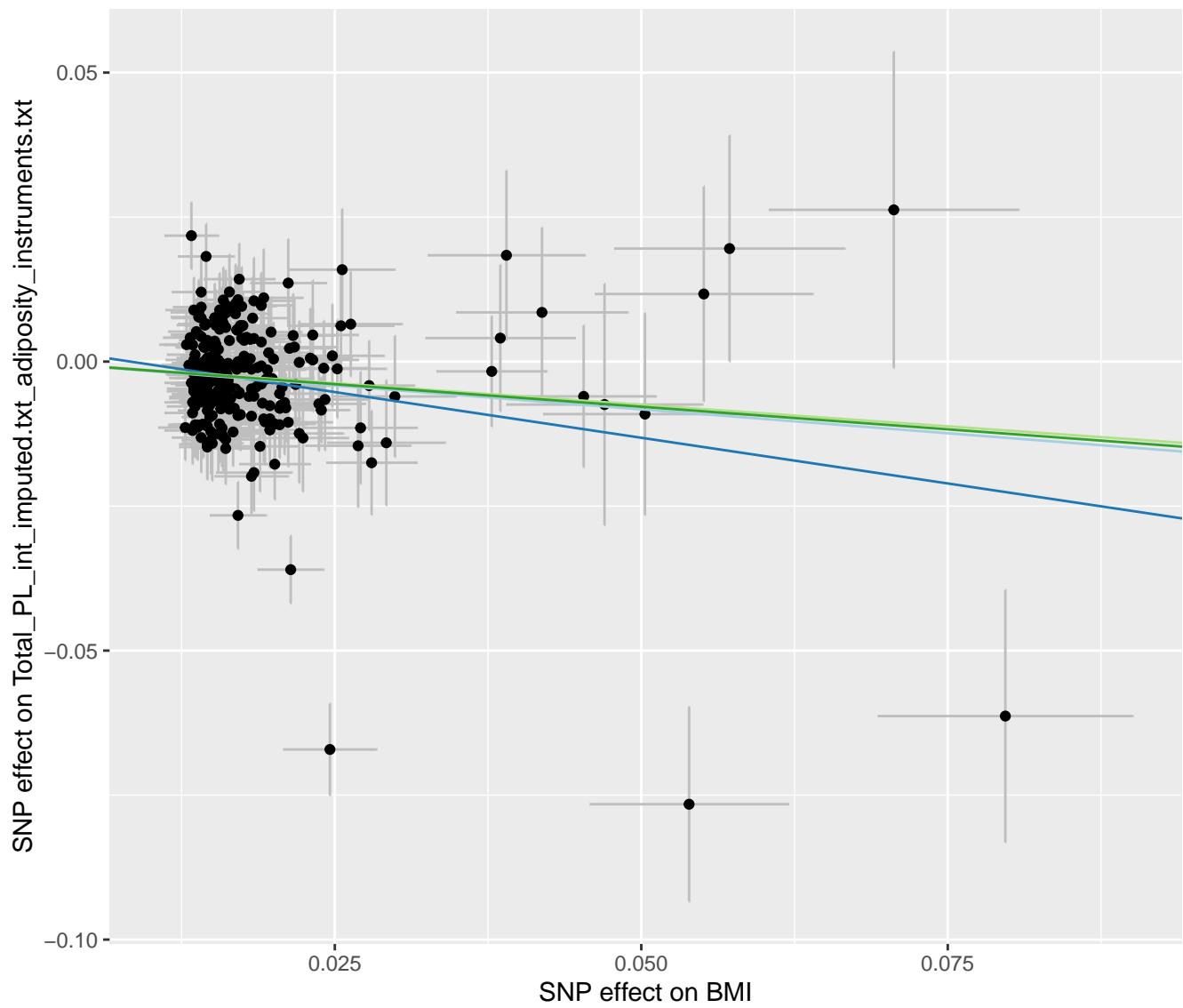
### Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



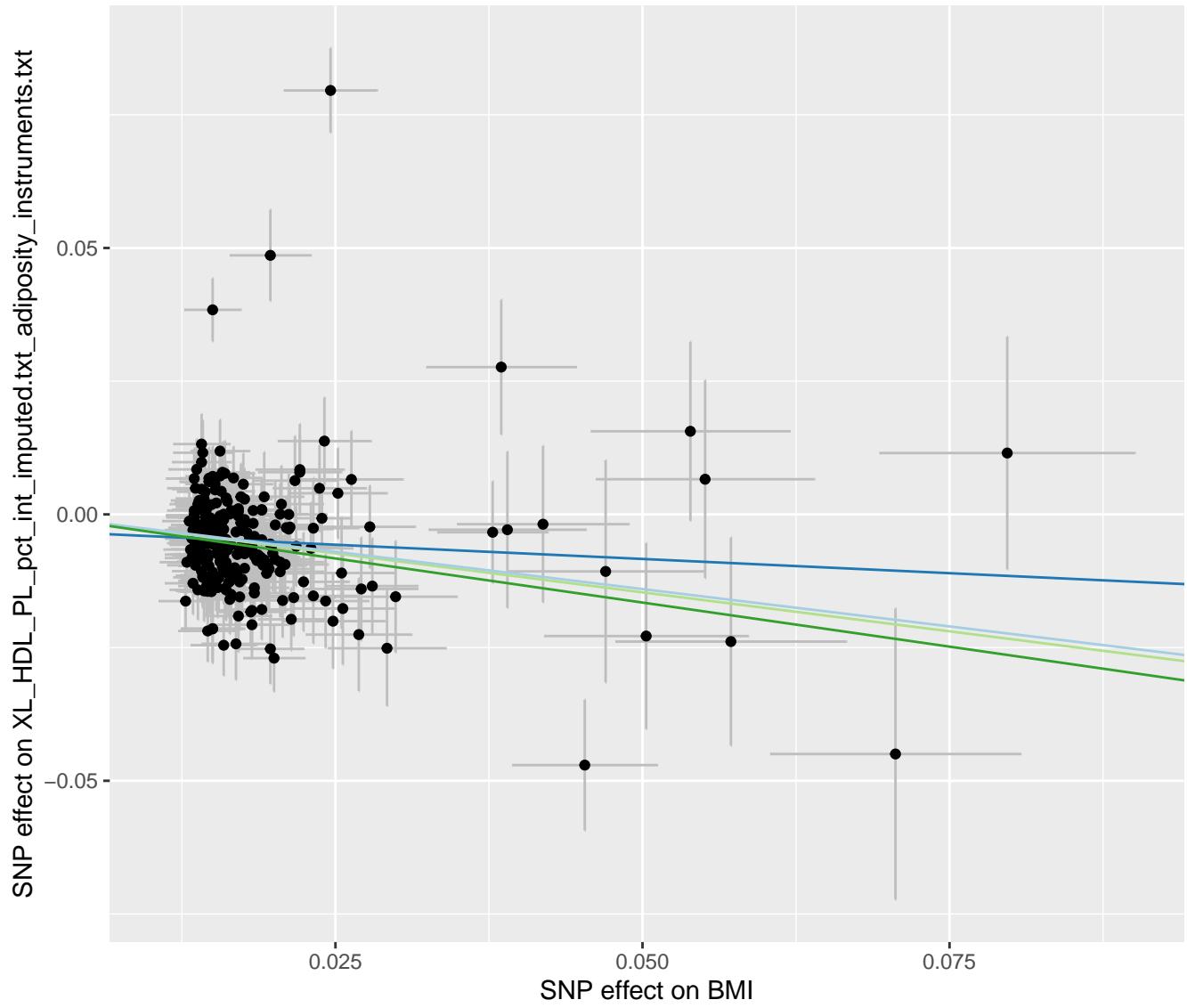
MR Egger



Weighted median

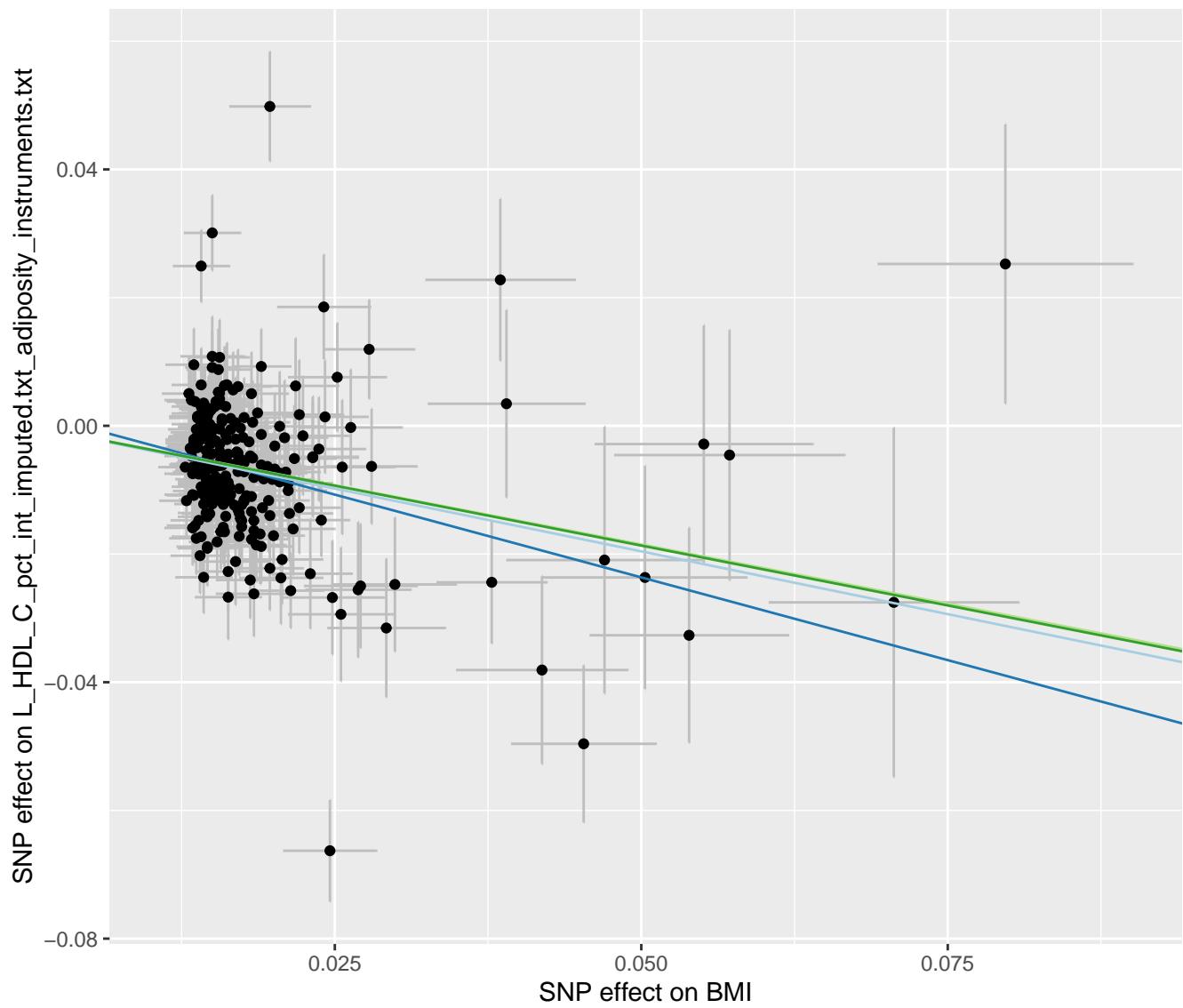


Weighted mode



# MR Test

Inverse variance weighted (multiplicative random effects)  
MR Egger  
Weighted median  
Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

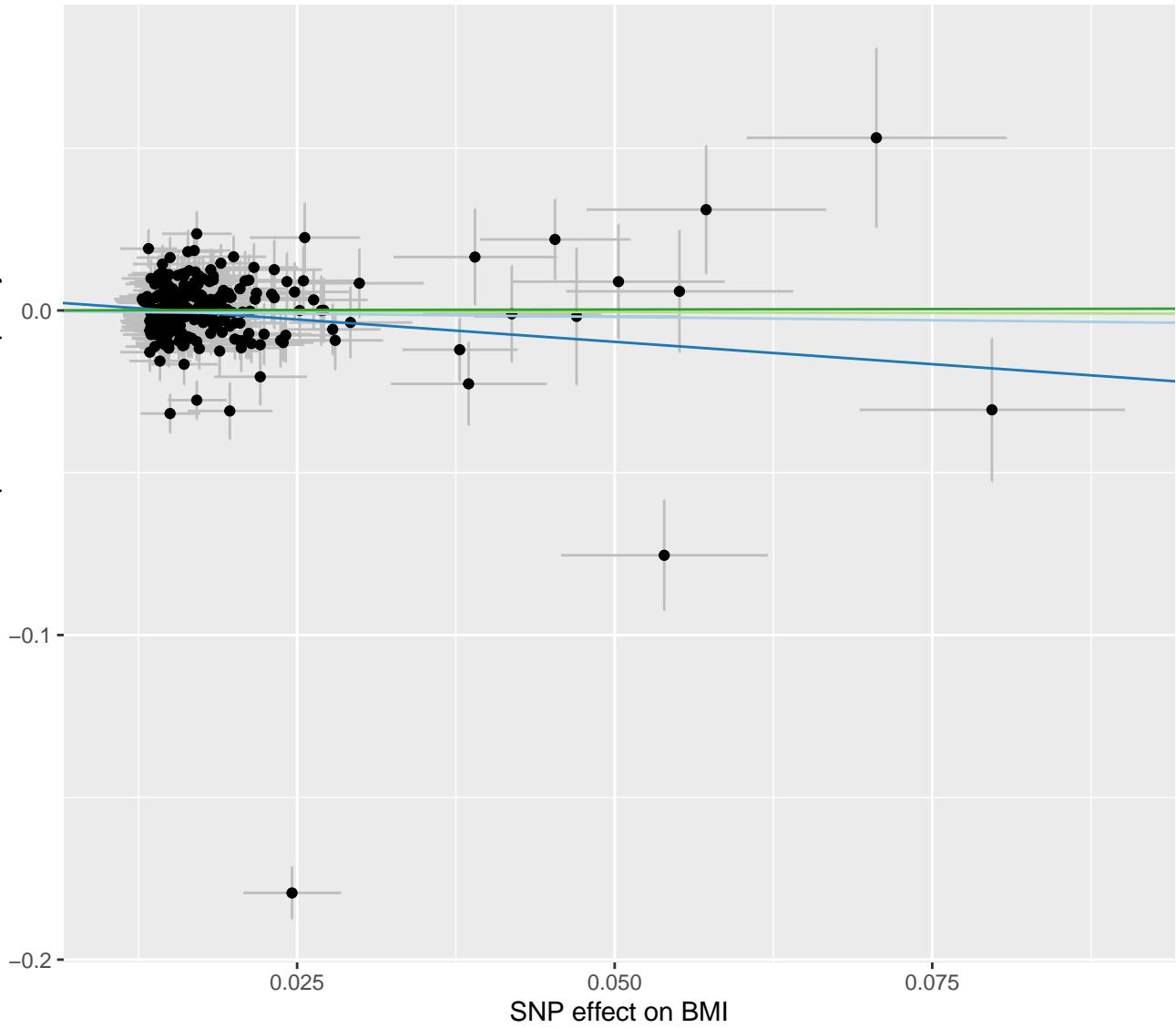


Weighted median



Weighted mode

SNP effect on M\_LDL\_PL\_int\_imputed.txt\_adiposity\_instruments.txt



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

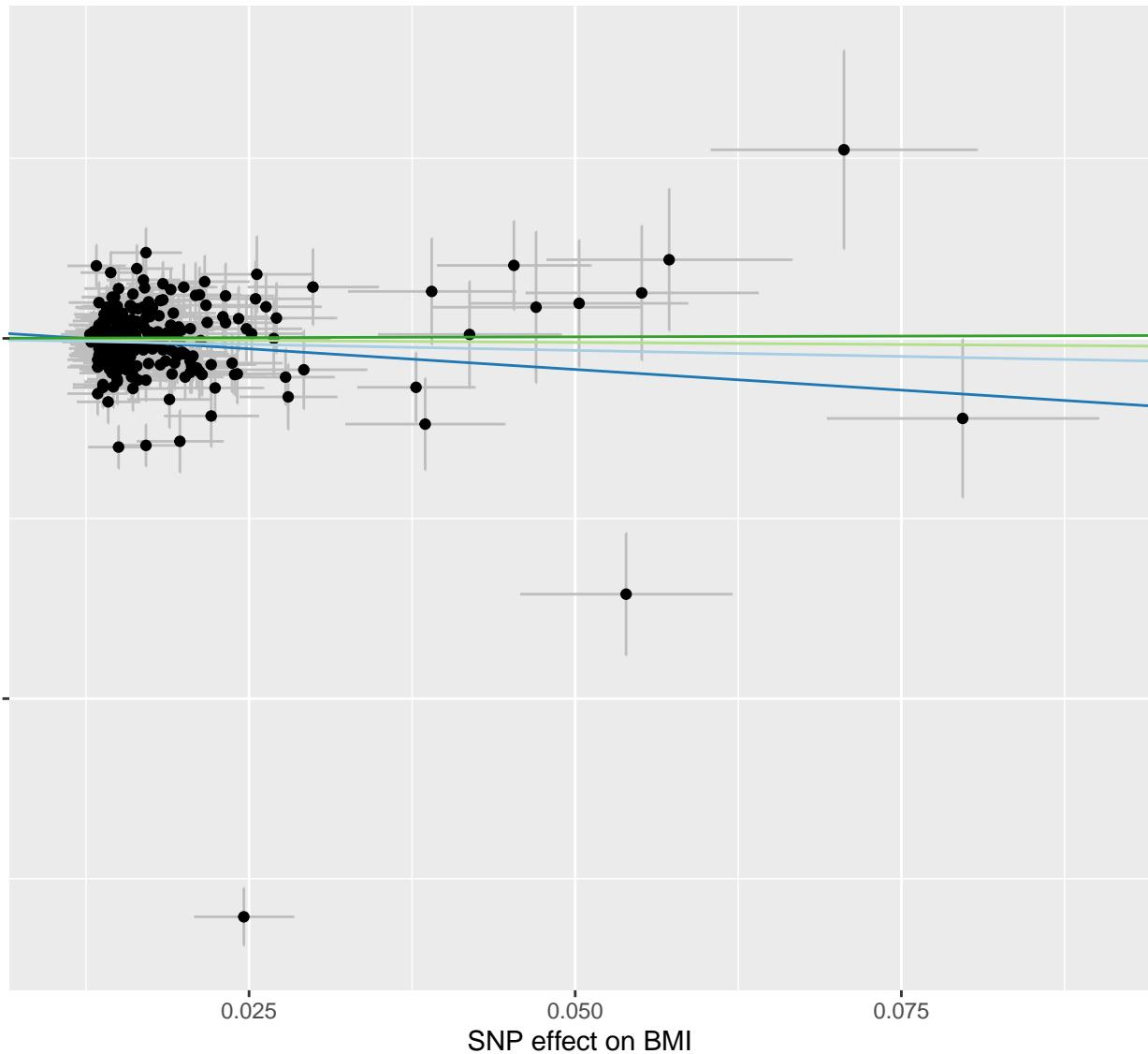


Weighted median



Weighted mode

SNP effect on ApoB\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

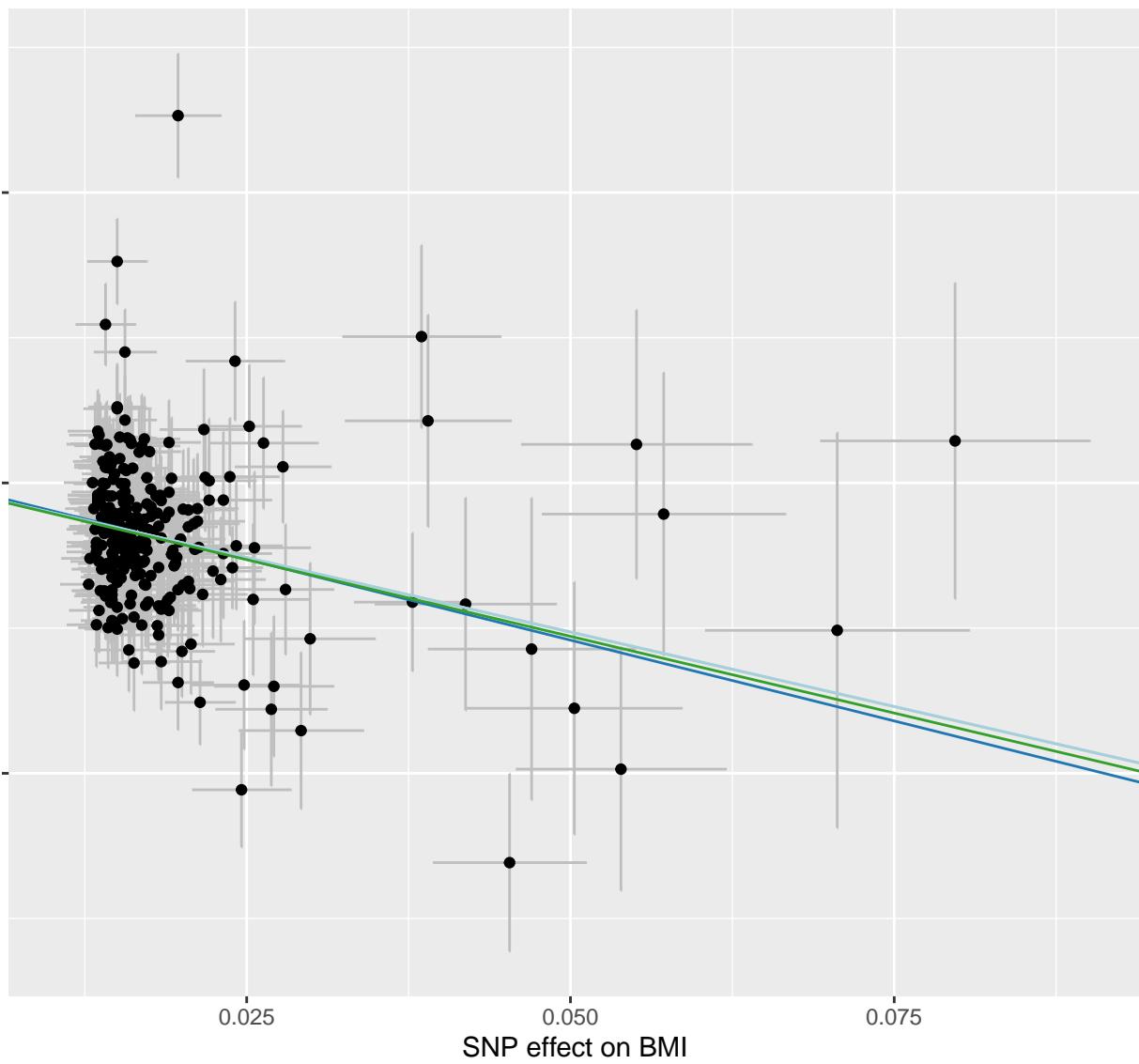


Weighted median



Weighted mode

SNP effect on XL\_HDL\_C\_int\_imputed.txt\_adiposity\_instruments.txt



## MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

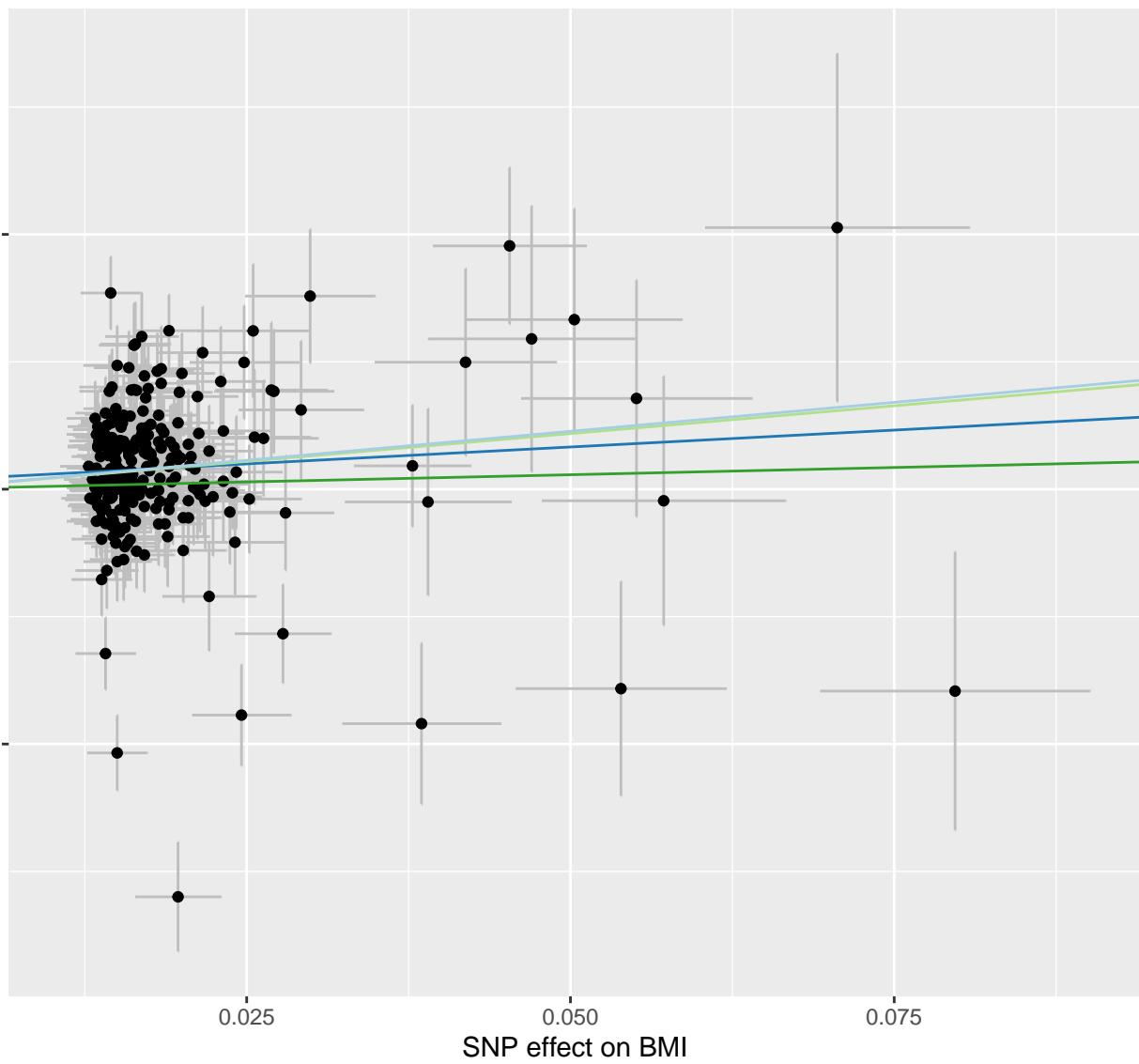


Weighted median



Weighted mode

SNP effect on L\_VLDL\_L\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

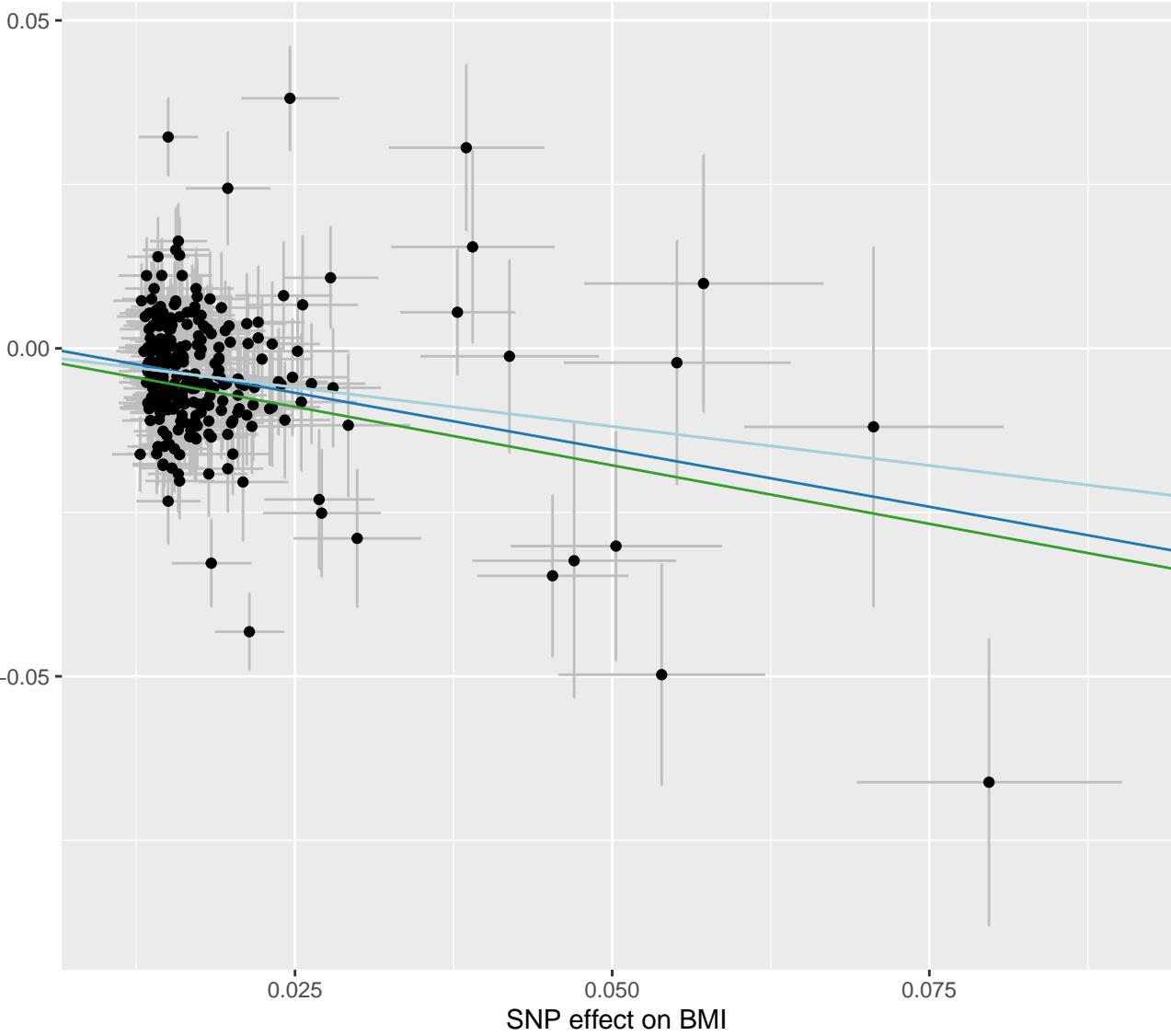


Weighted median



Weighted mode

SNP effect on ApoA1\_int\_imputed.txt\_adiposity\_instruments.txt



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

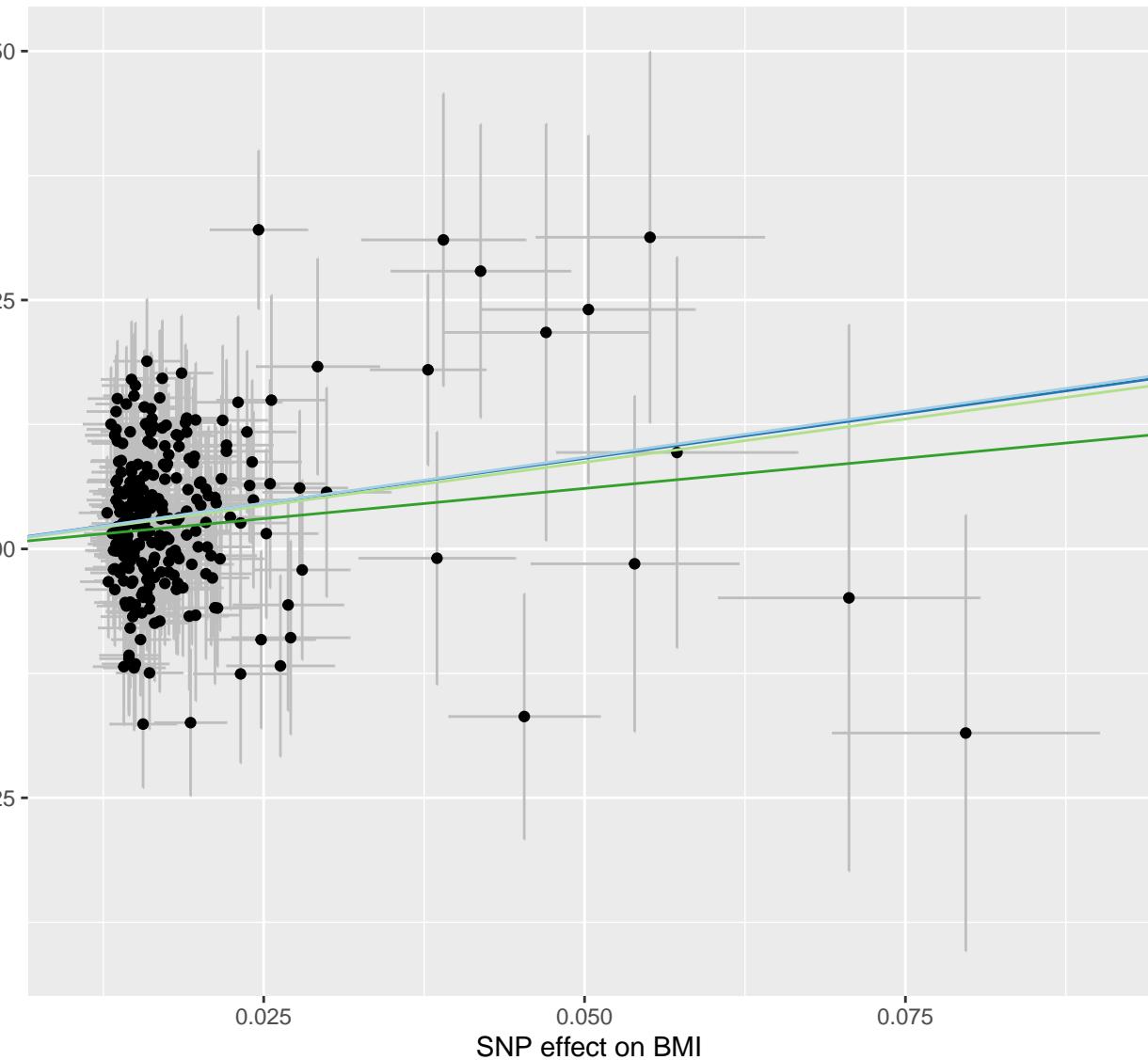


Weighted median



Weighted mode

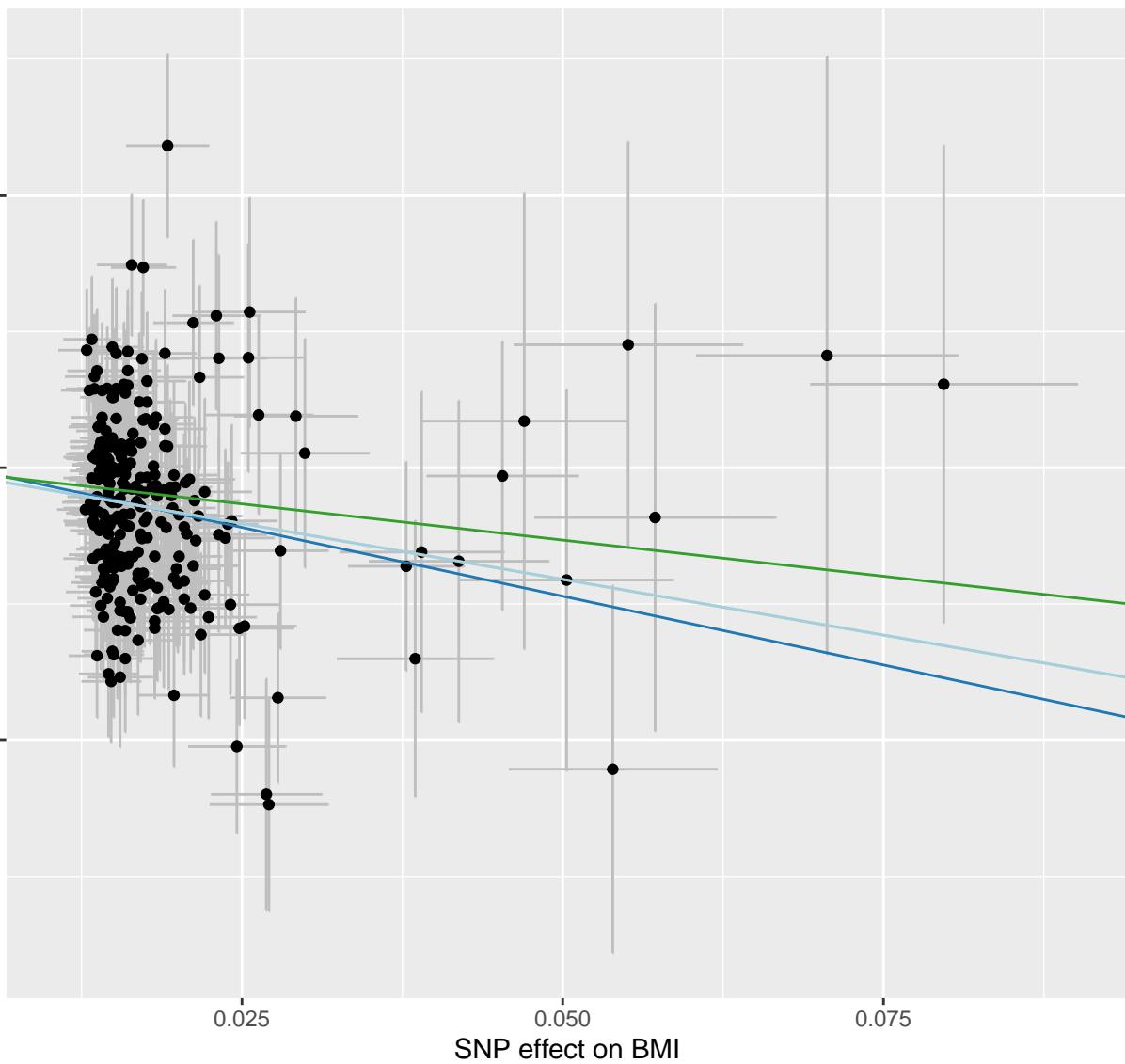
SNP effect on Tyr\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test

 Inverse variance weighted (multiplicative random effects)  
 MR Egger  
 Weighted median  
 Weighted mode

SNP effect on DHA\_int\_imputed.txt\_adiposity\_instruments.txt



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



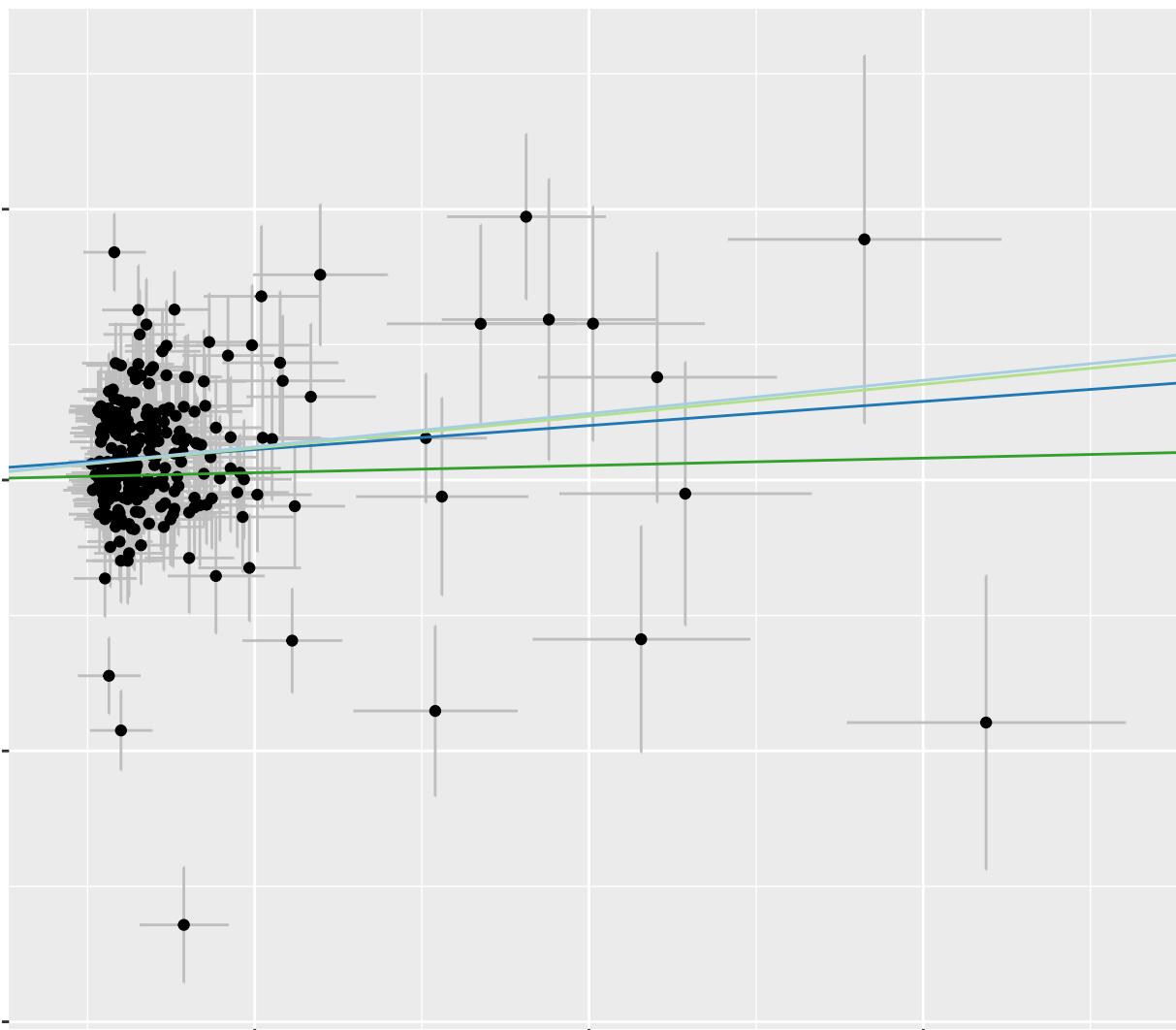
Weighted median



Weighted mode

SNP effect on VLDL\_TG\_int\_imputed.txt\_adiposity\_instruments.txt

SNP effect on BMI



MR Test

A blue line that slopes upwards from left to right, positioned in the bottom right corner of the page.

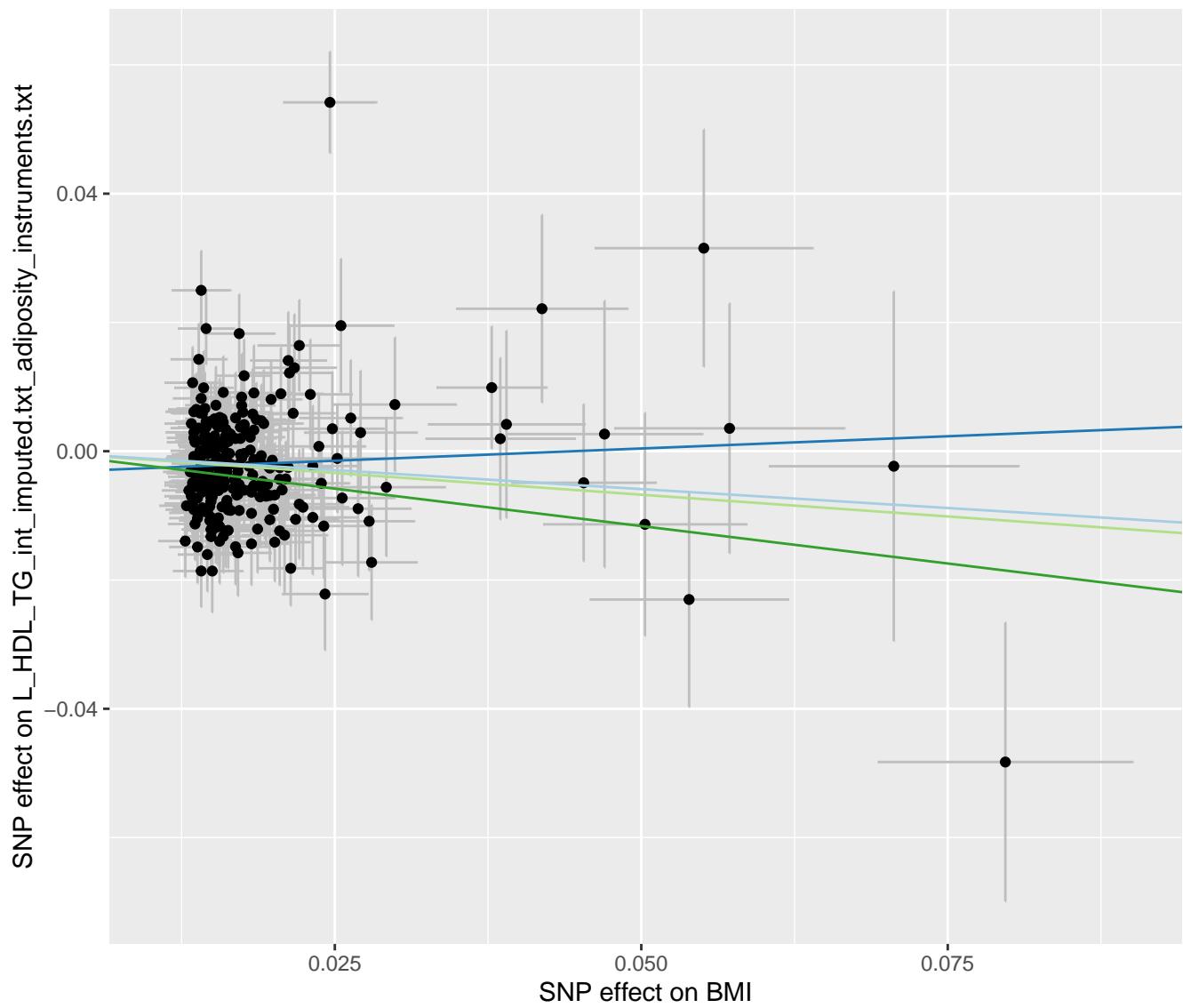
Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

Weighted mode



MR Test

10

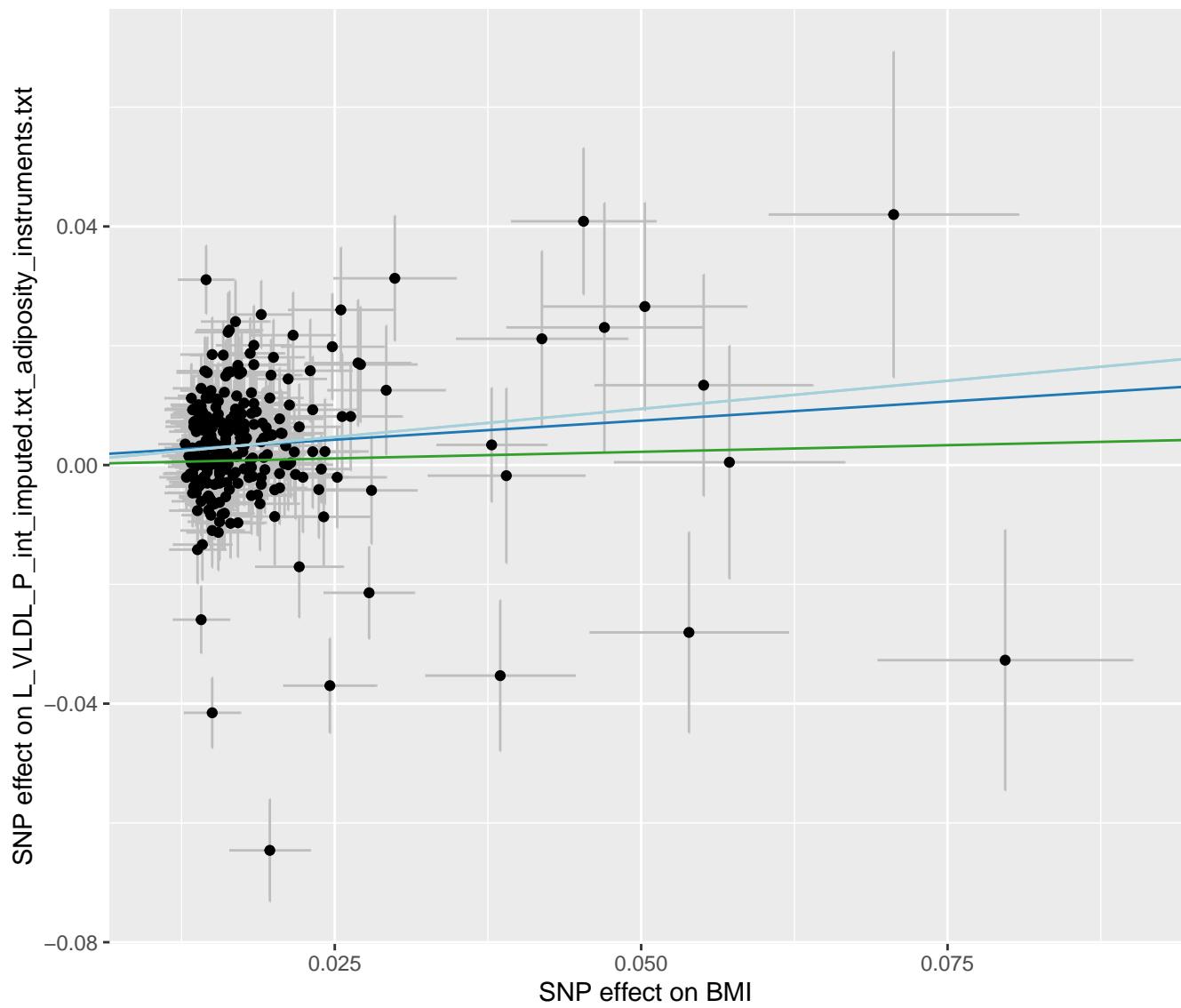
### Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

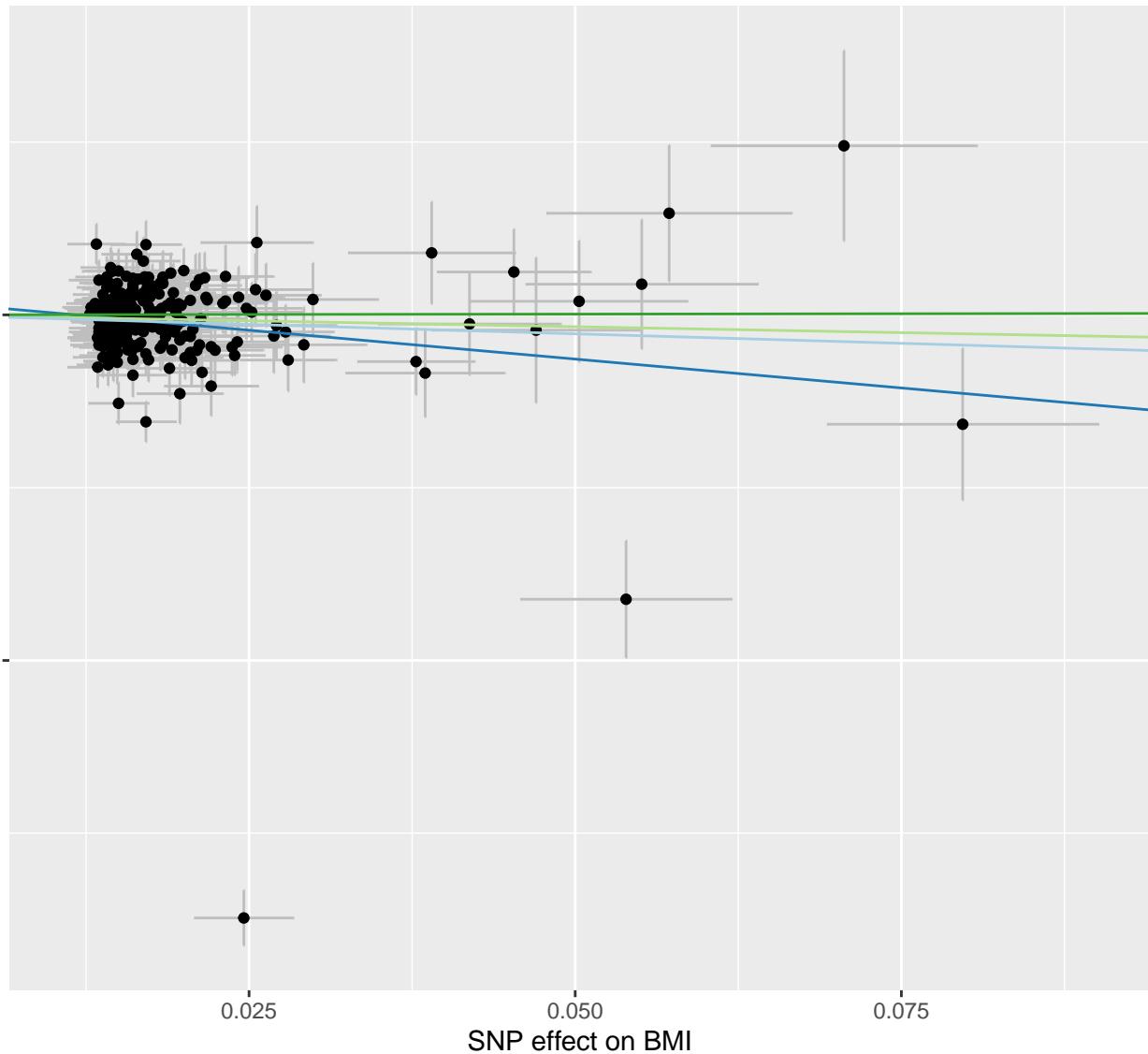


Weighted median



Weighted mode

SNP effect on LDL\_L\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

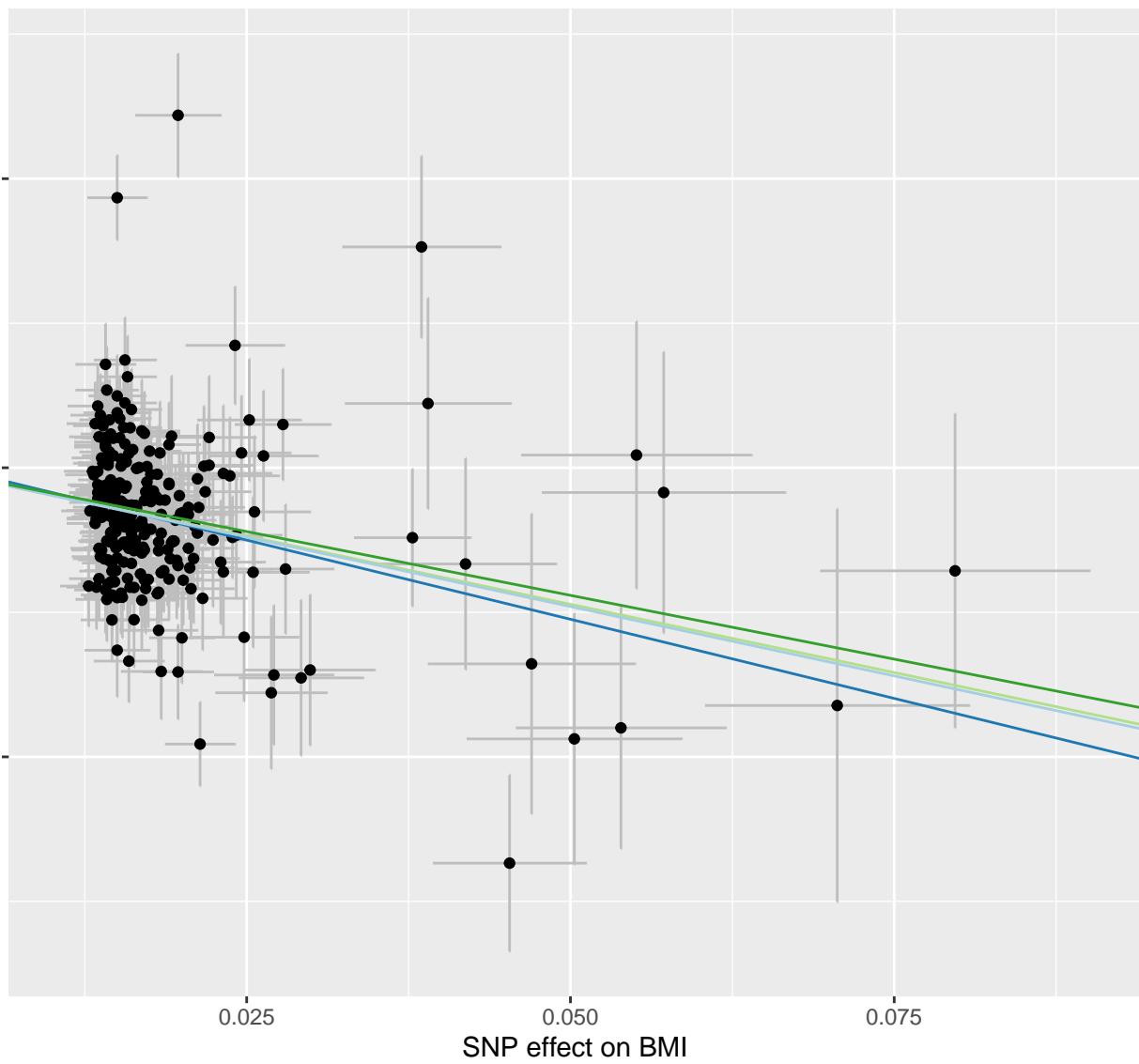


Weighted median



Weighted mode

SNP effect on L\_HDL\_FC\_int\_imputed.txt\_adiposity\_instruments.txt



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

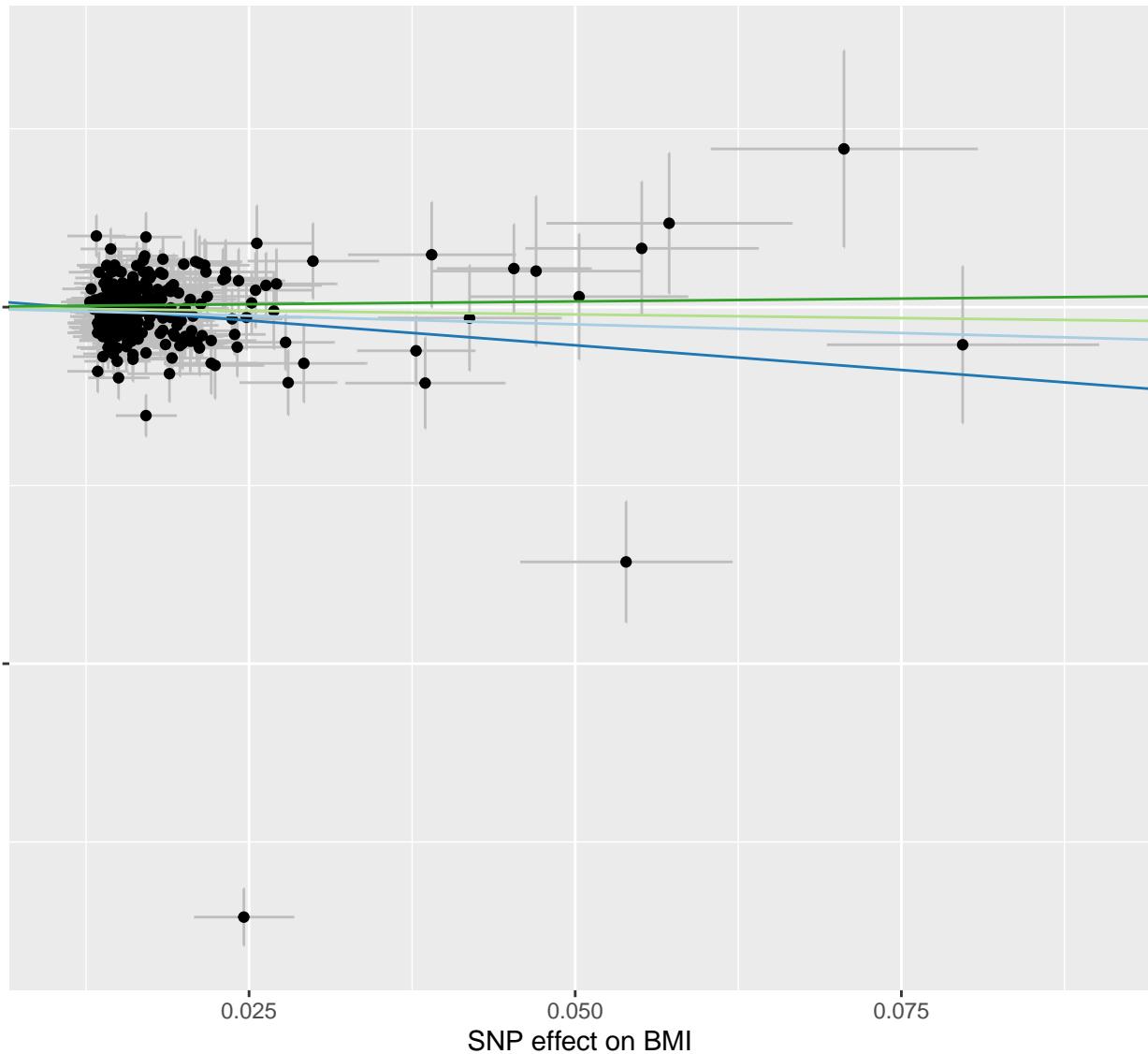


Weighted median



Weighted mode

SNP effect on IDL\_P\_int\_imputed.txt\_adiposity\_instruments.txt



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

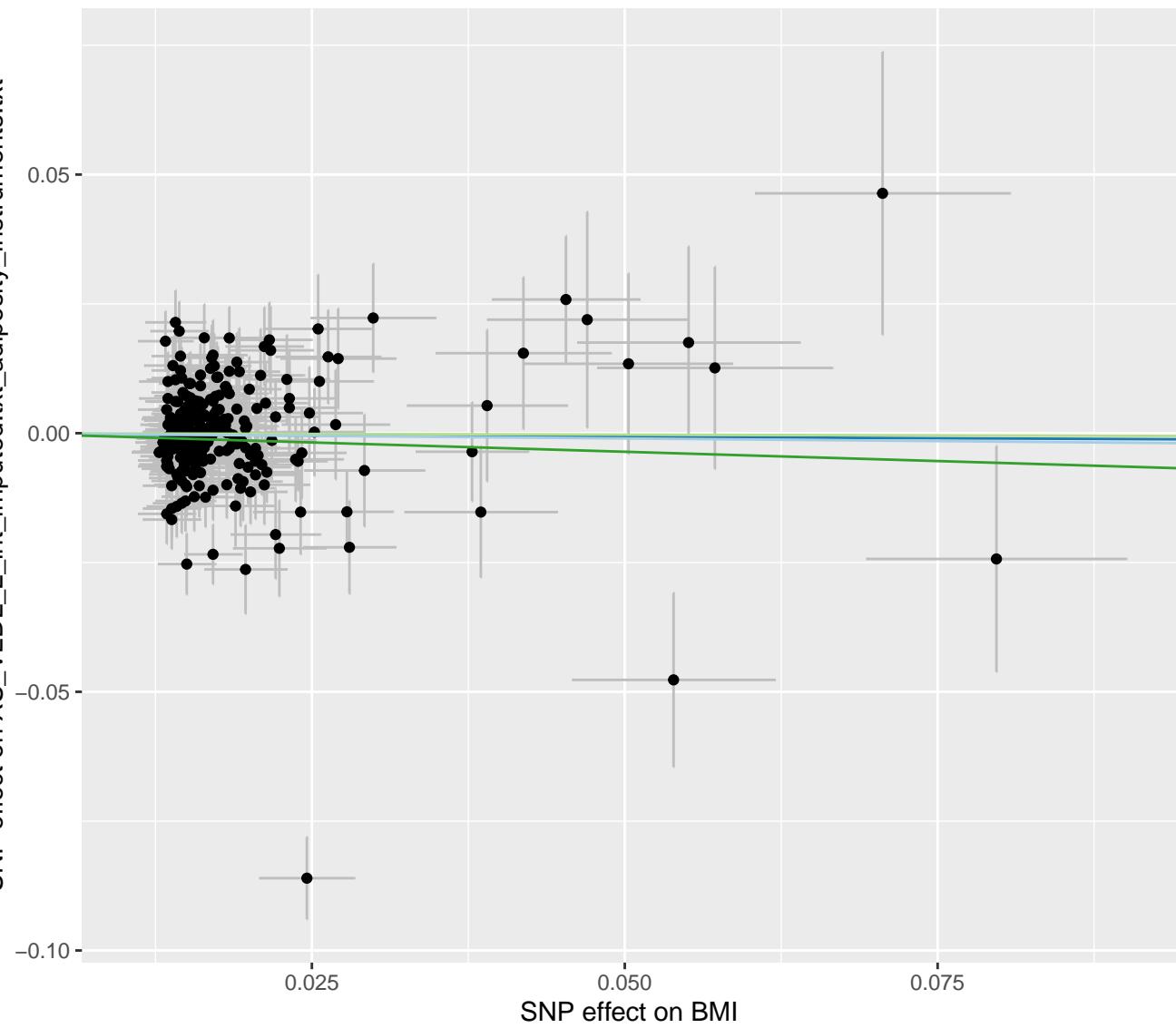


Weighted median



Weighted mode

SNP effect on XS\_VLDL\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

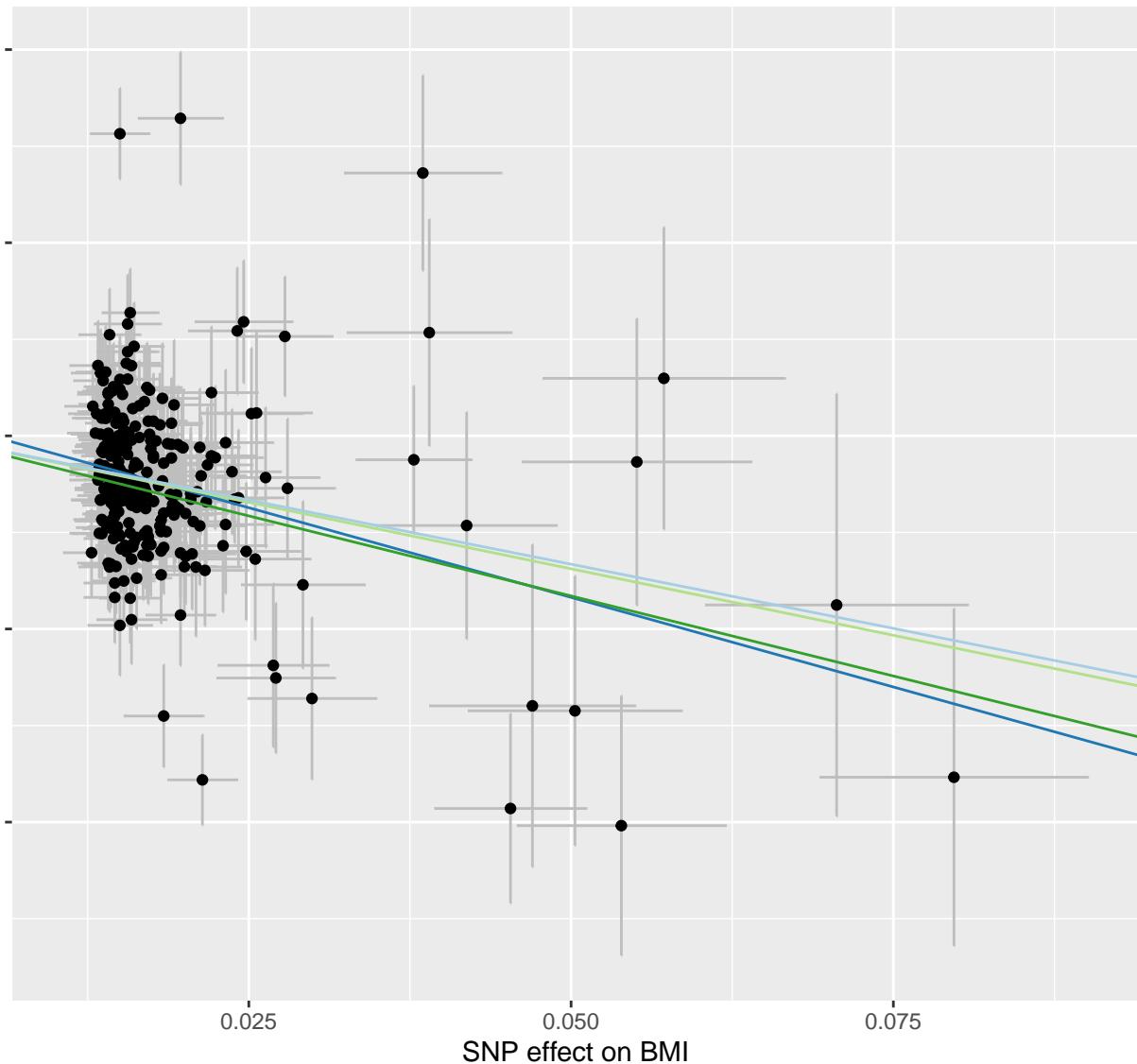


Weighted median



Weighted mode

SNP effect on HDL\_C\_int\_imputed.txt\_adiposity\_instruments.txt



## MR Test



Inverse variance weighted (multiplicative random effects)

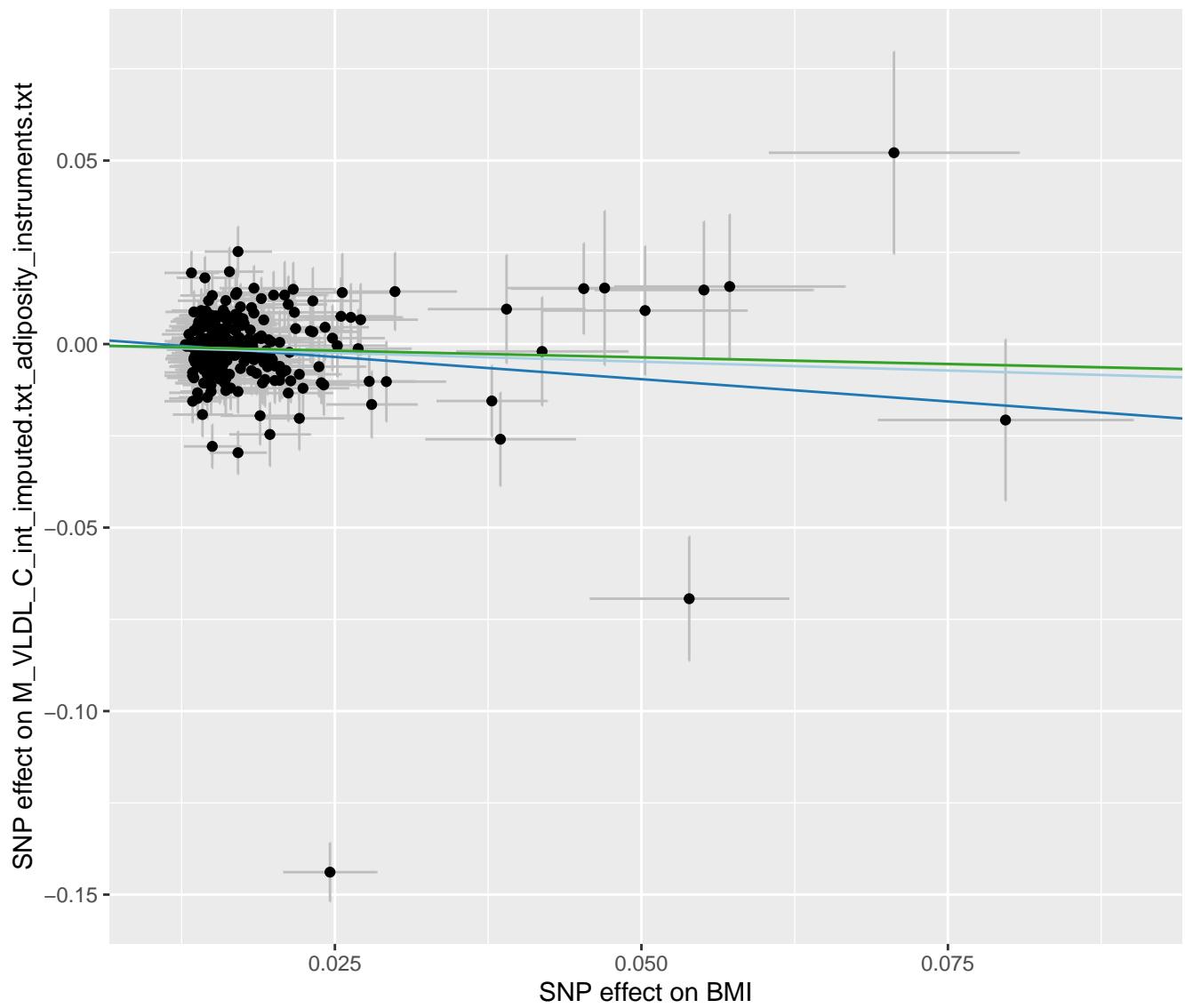
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on Citrate\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

0.04

0.00

-0.04

0.075

0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08

# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on S\_HDL\_C\_pct\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

0.050

0.05

0.00

-0.05

-0.10

### MR Test



Inverse variance weighted (multiplicative random effects)



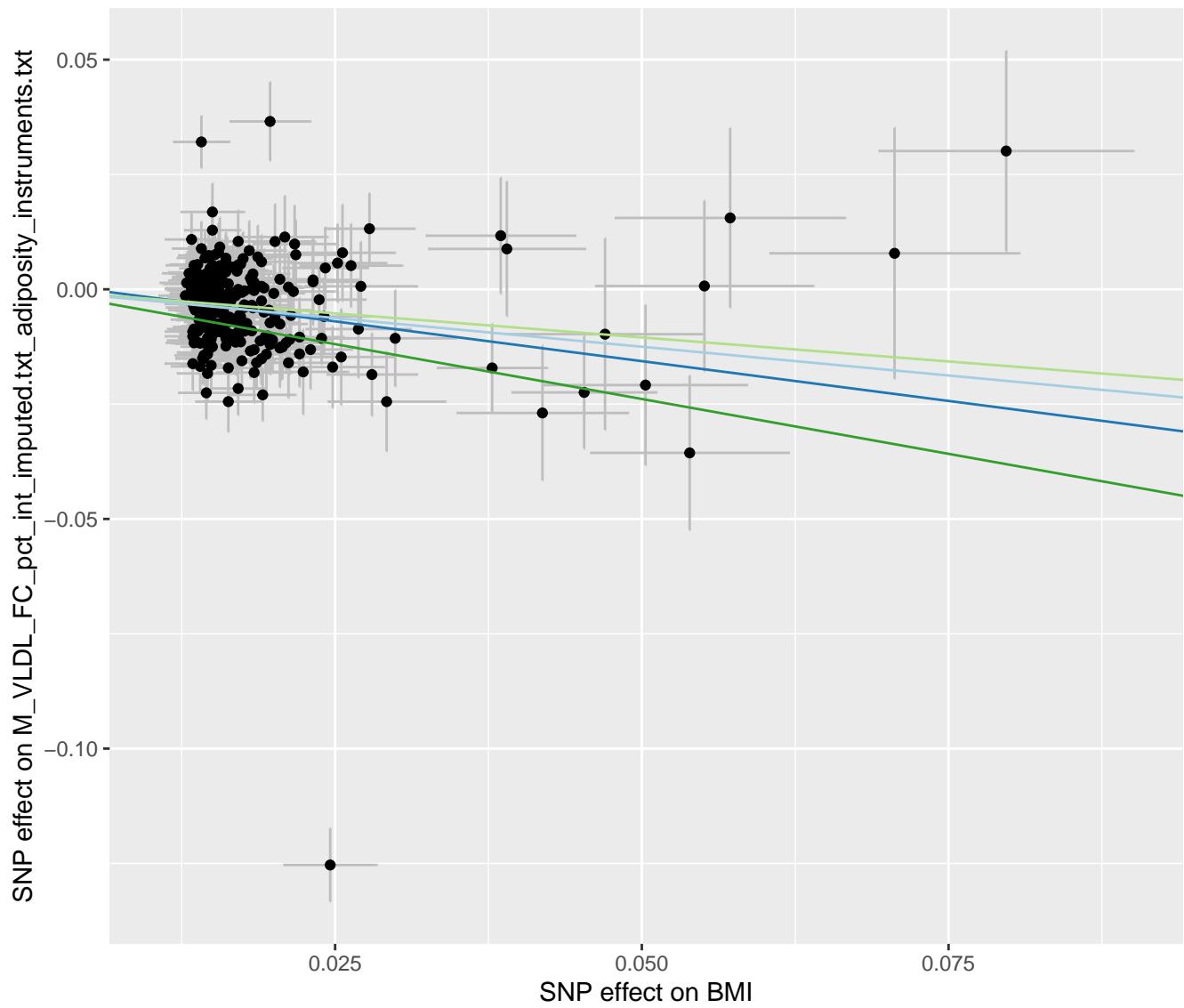
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



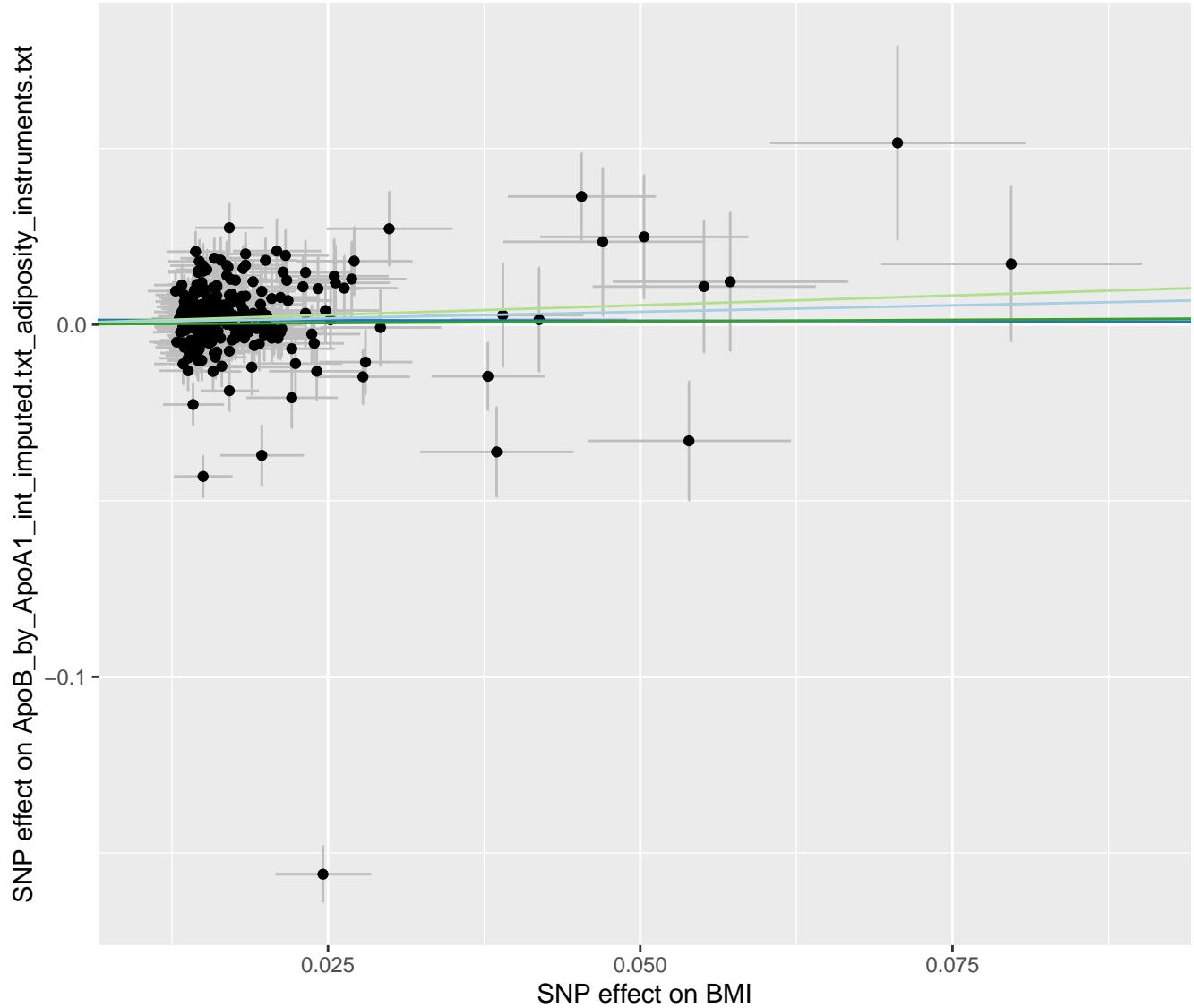
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



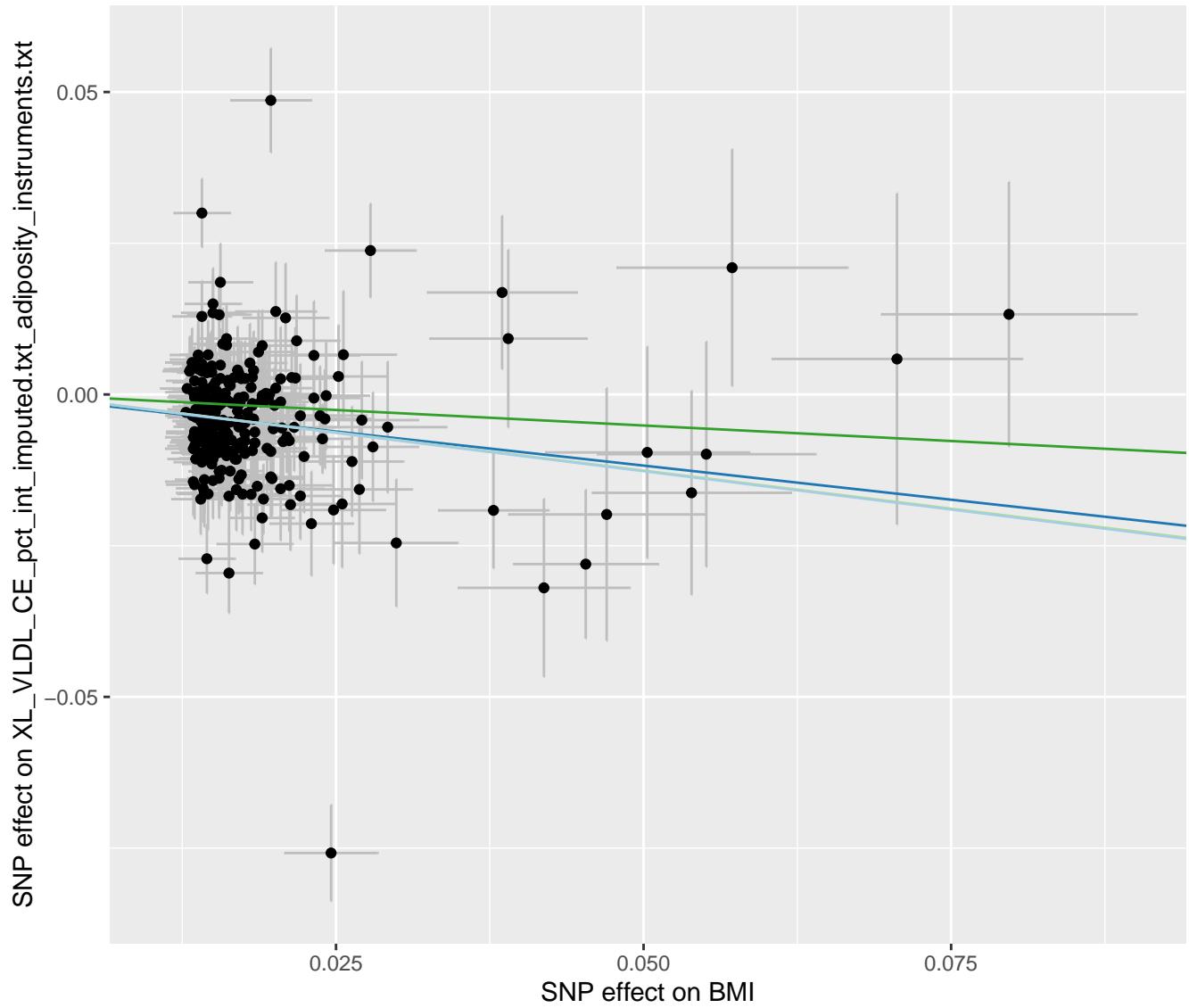
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



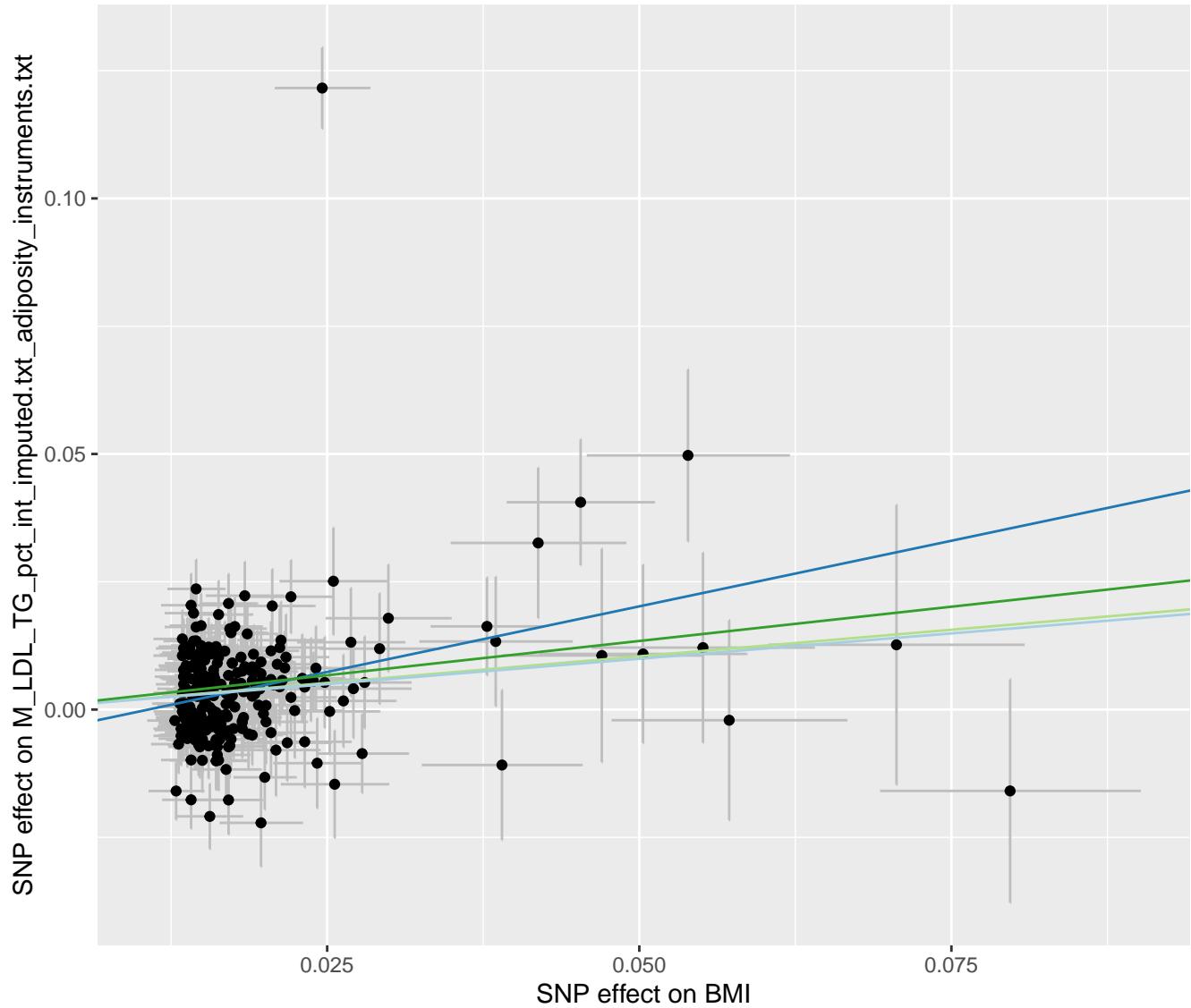
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

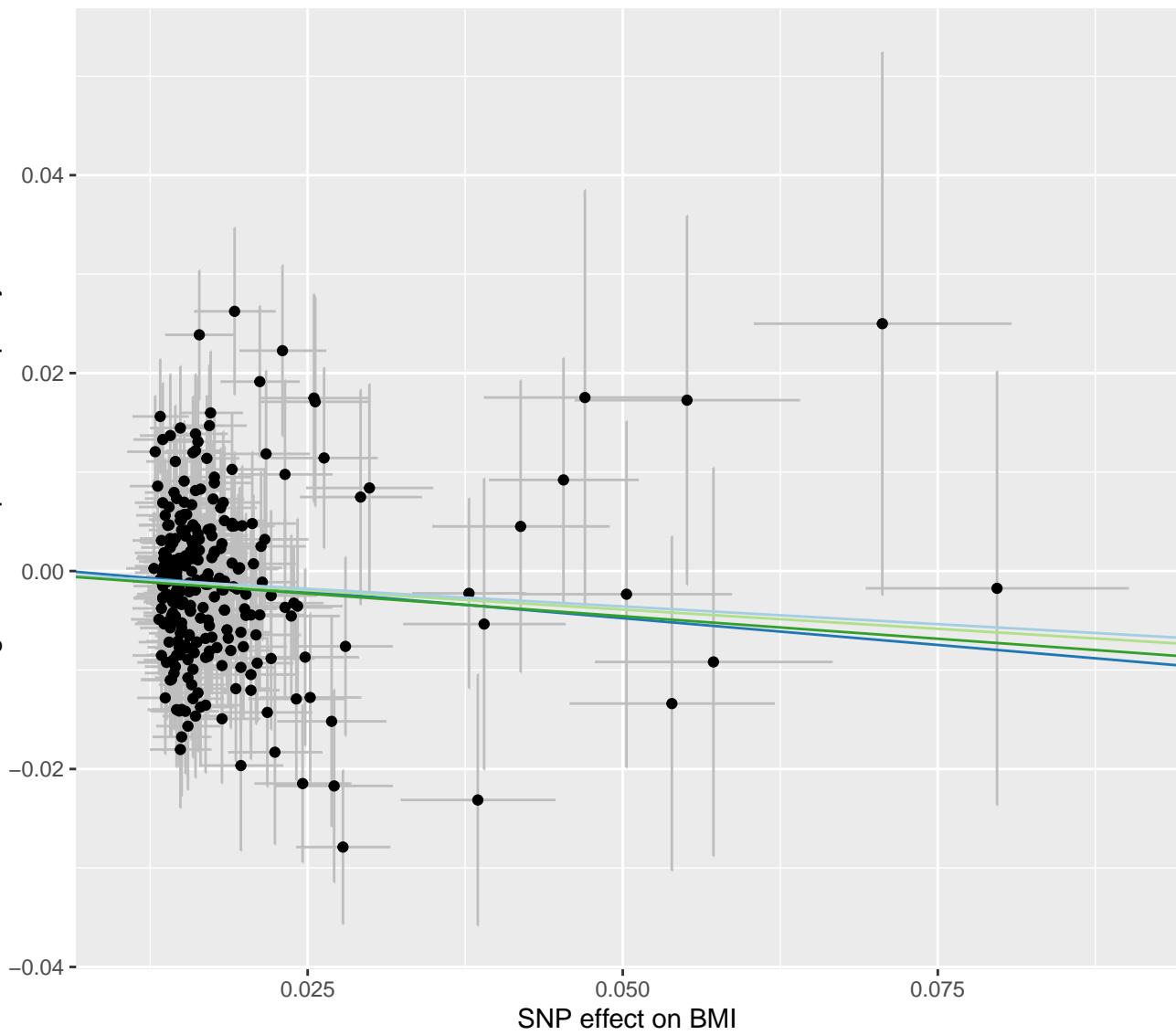


Weighted median



Weighted mode

SNP effect on Omega\_3\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

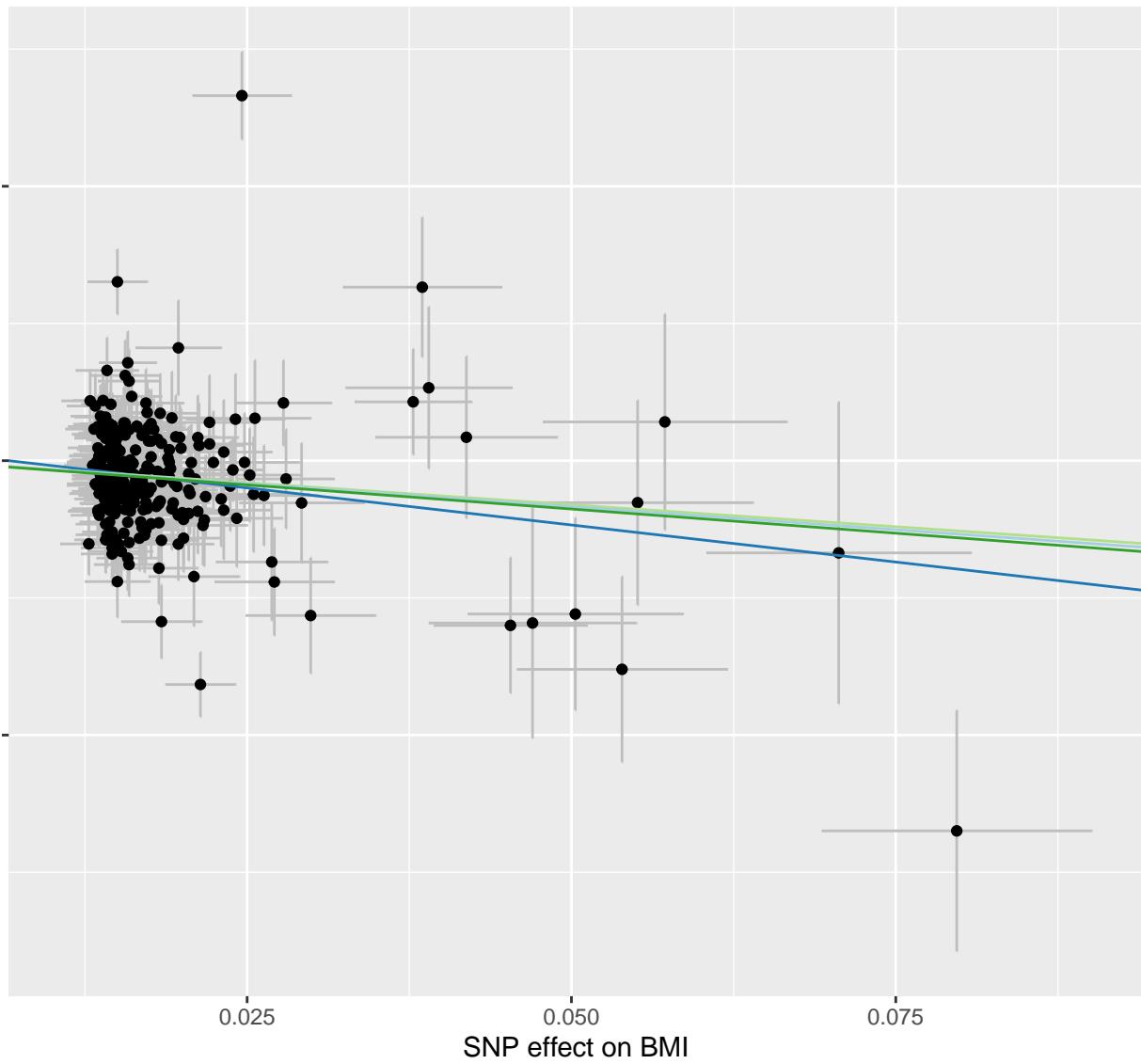


Weighted median



Weighted mode

SNP effect on M\_HDL\_L\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



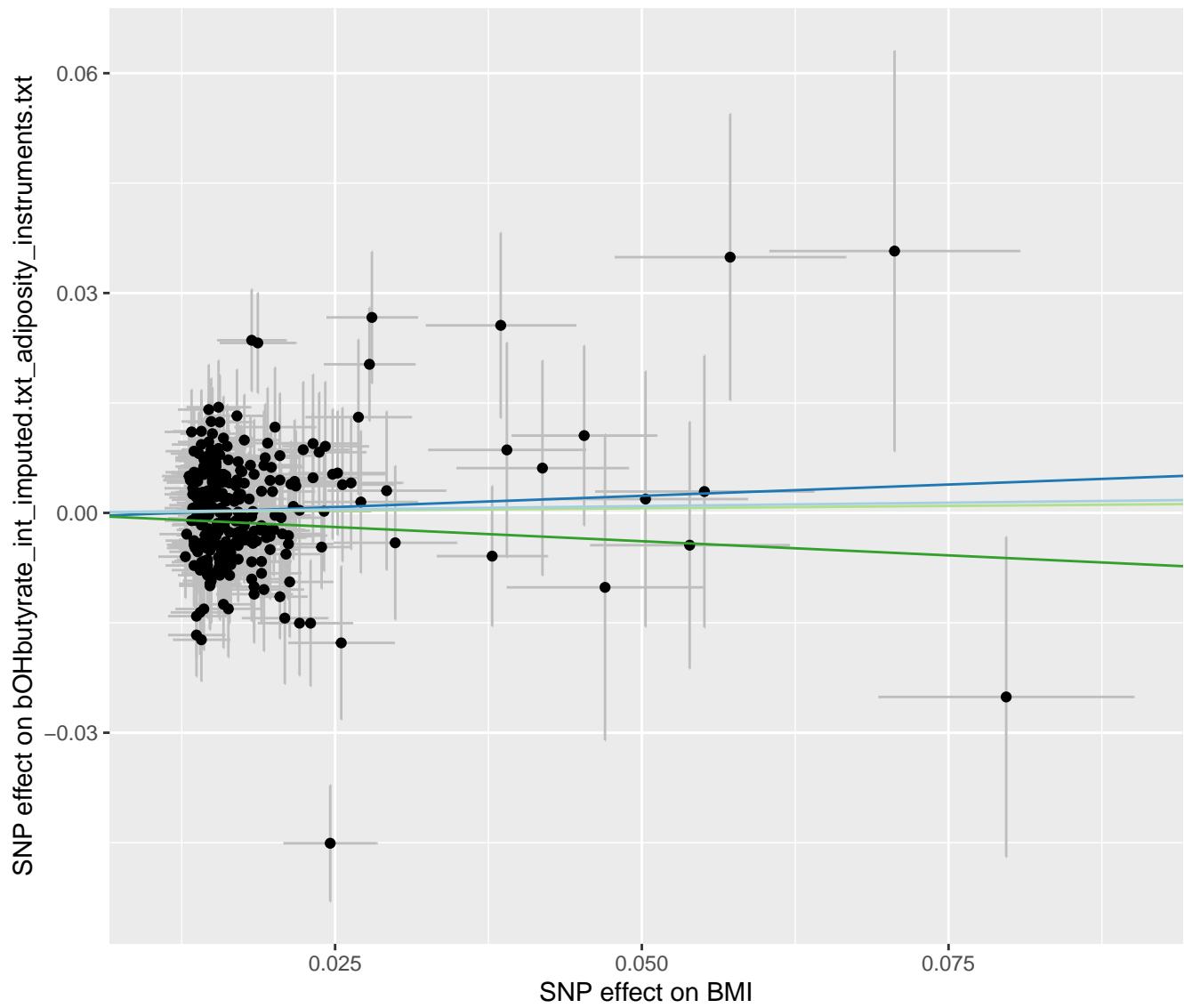
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



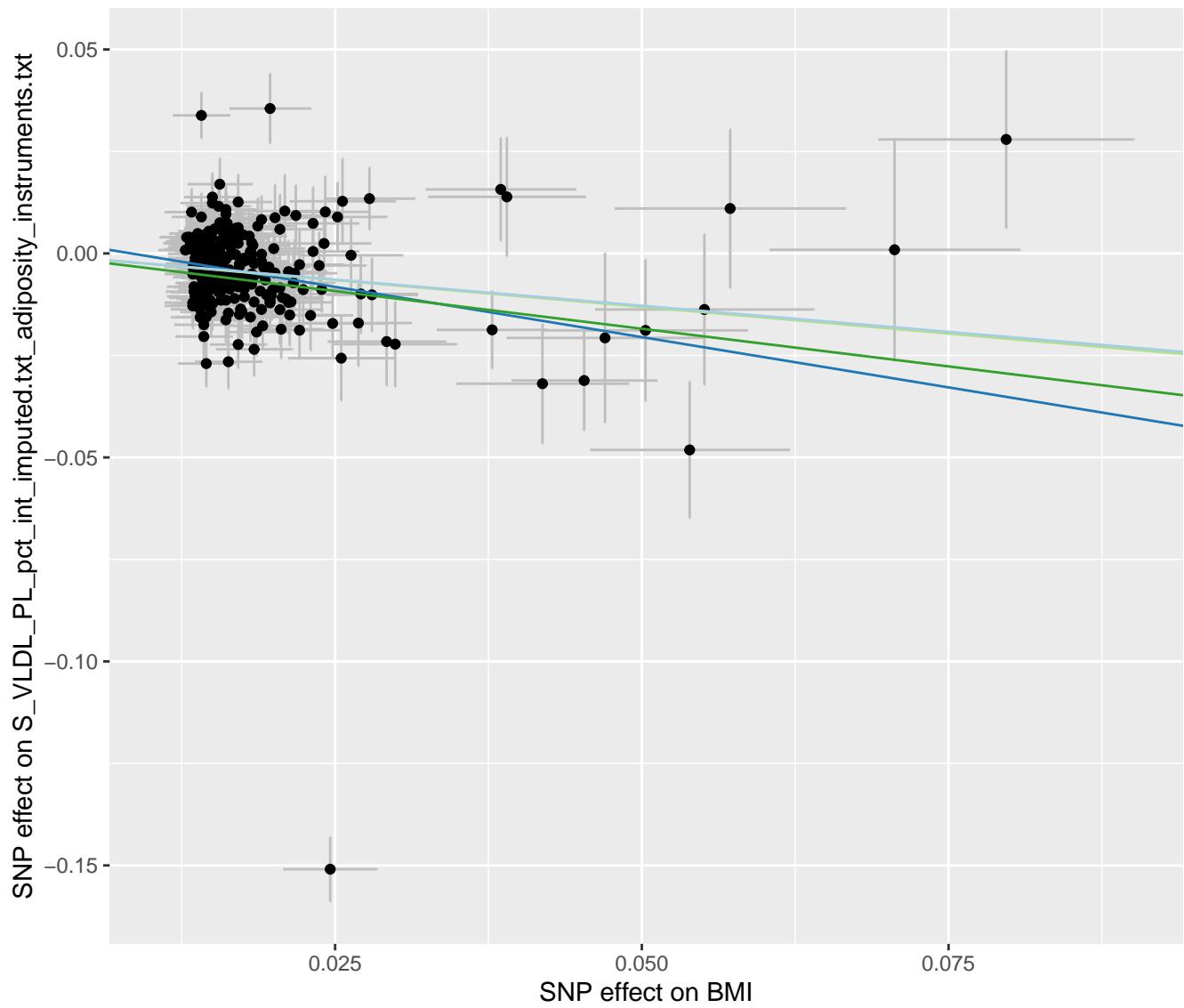
MR Egger



Weighted median



Weighted mode



MR Test

A blue line that slopes upwards from left to right.

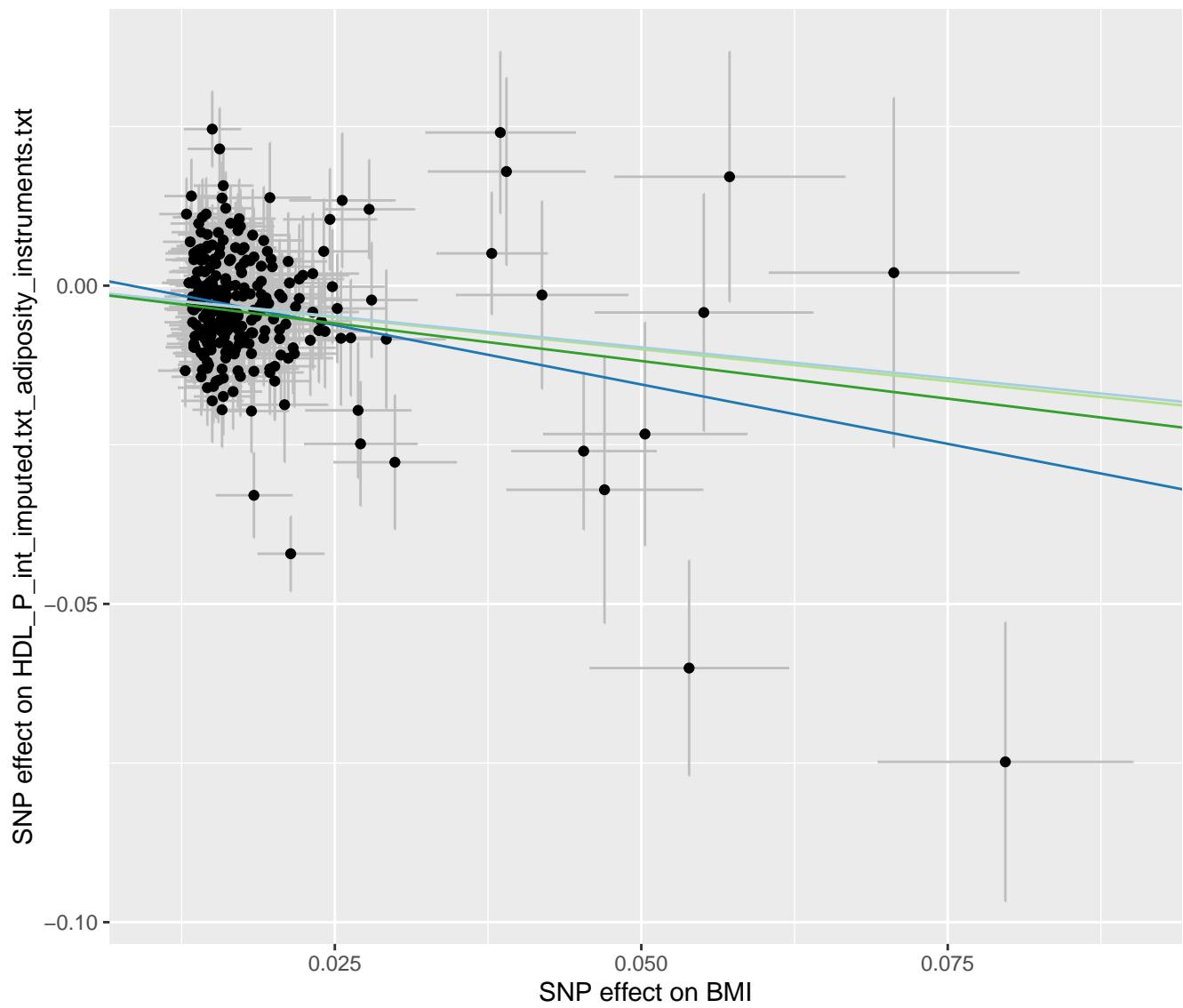
### Inverse variance weighted (multiplicative random effects)

MR Egger

10 of 10

## Weighted median

## Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

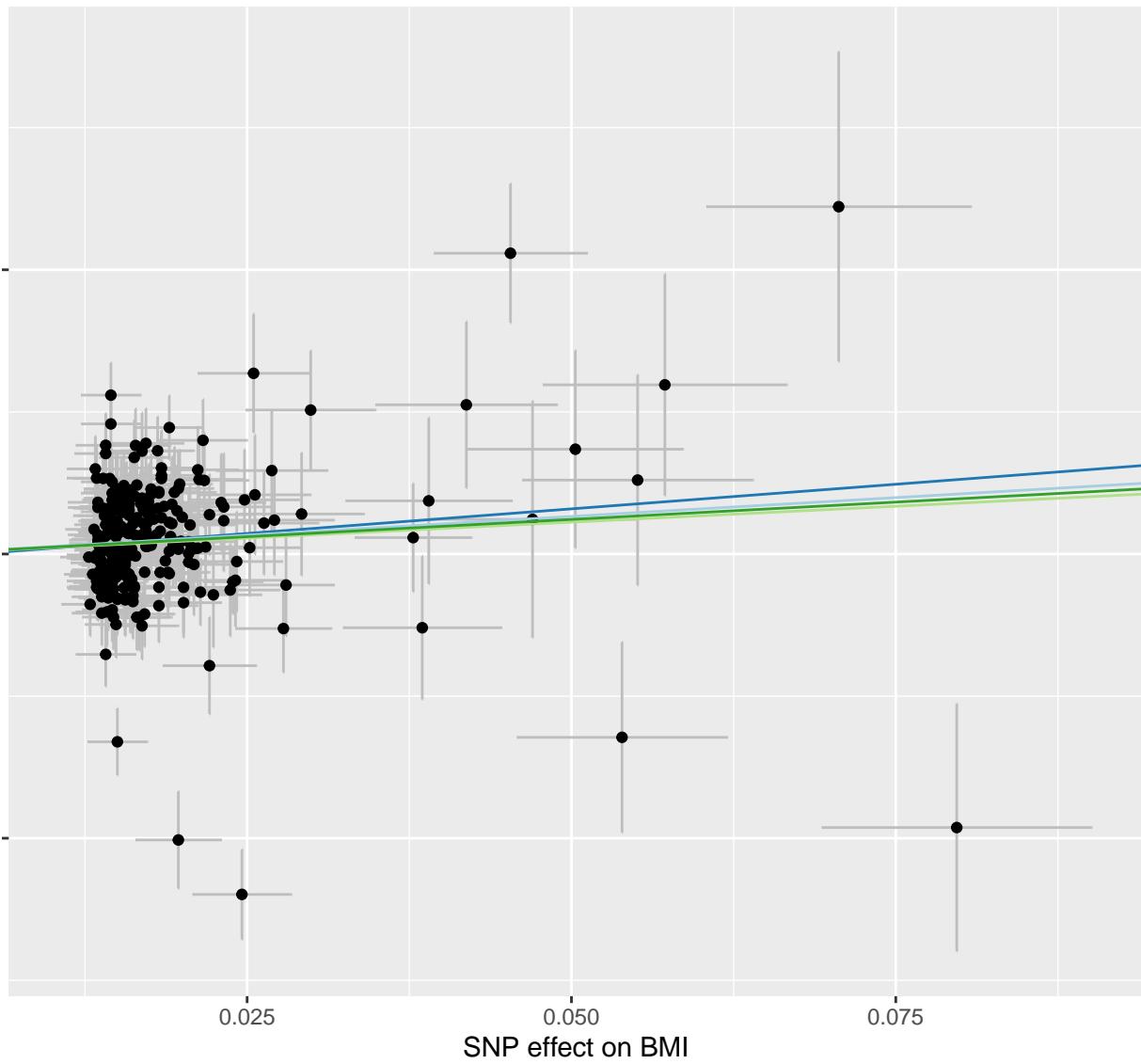


Weighted median



Weighted mode

SNP effect on M\_LDL\_TG\_int\_imputed.txt\_adiposity\_instruments.txt



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

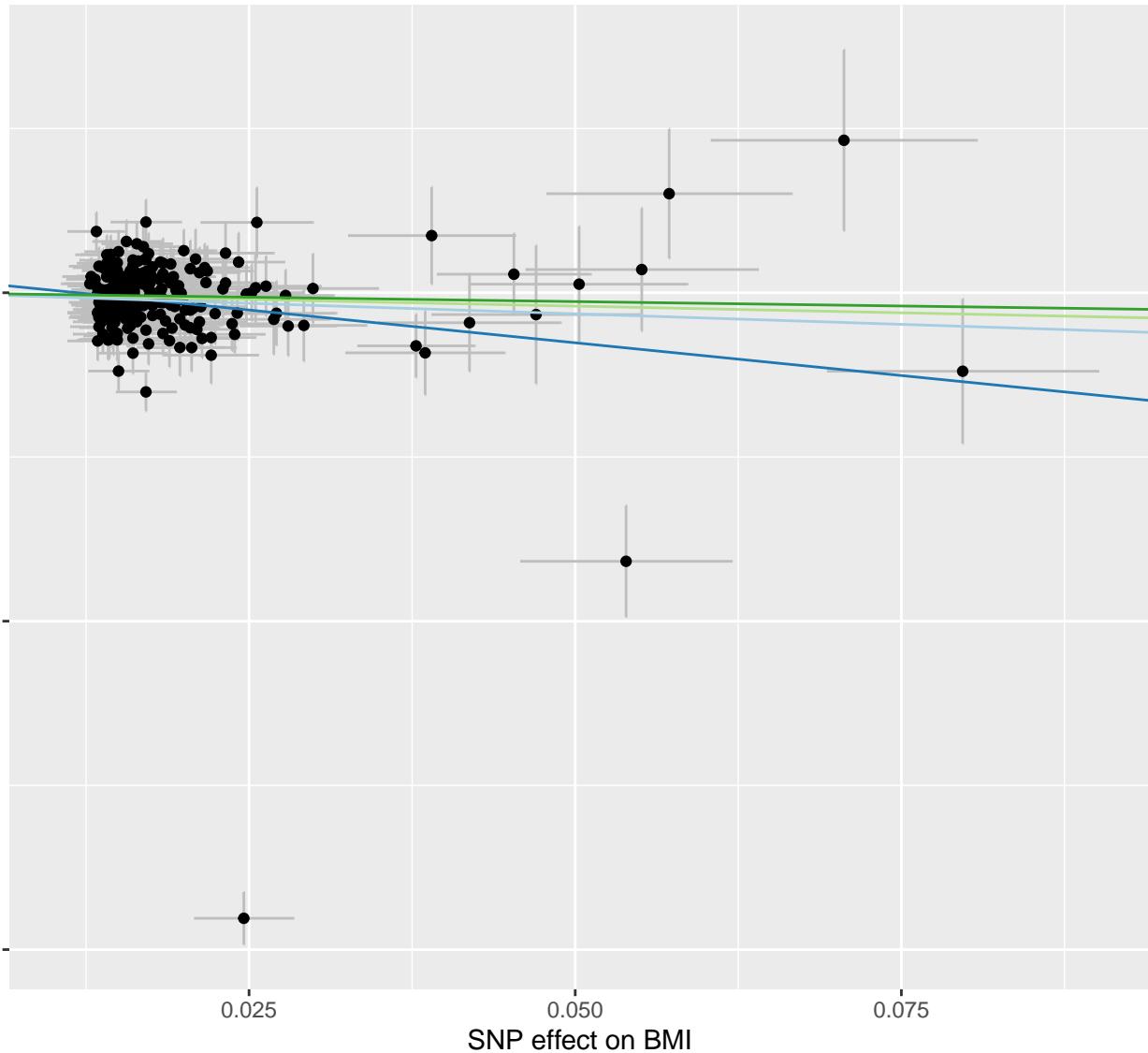


Weighted median



Weighted mode

SNP effect on M\_LDL\_FC\_int\_imputed.txt\_adiposity\_instruments.txt



MR Test

A blue line that slopes upwards from left to right.

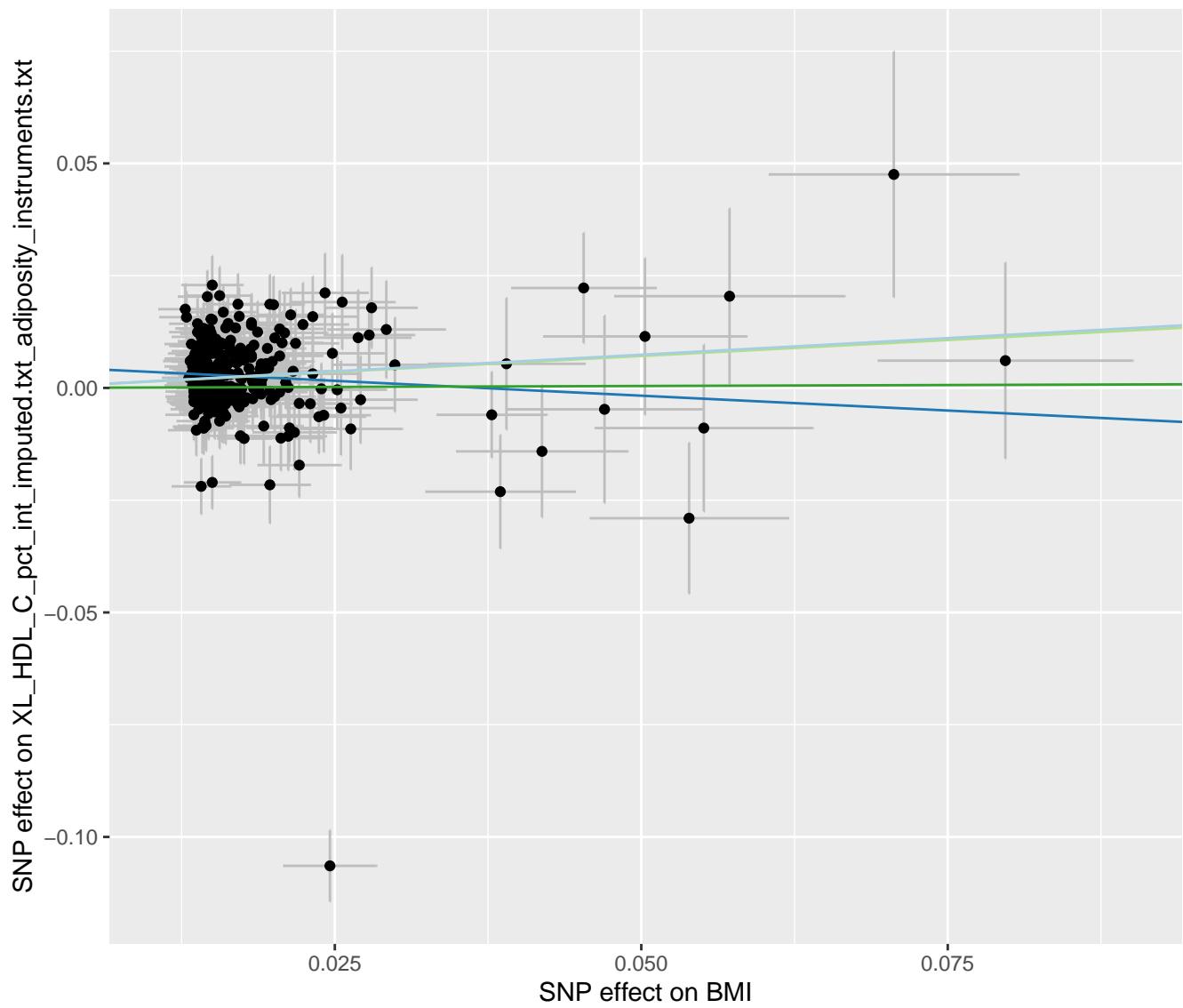
### Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



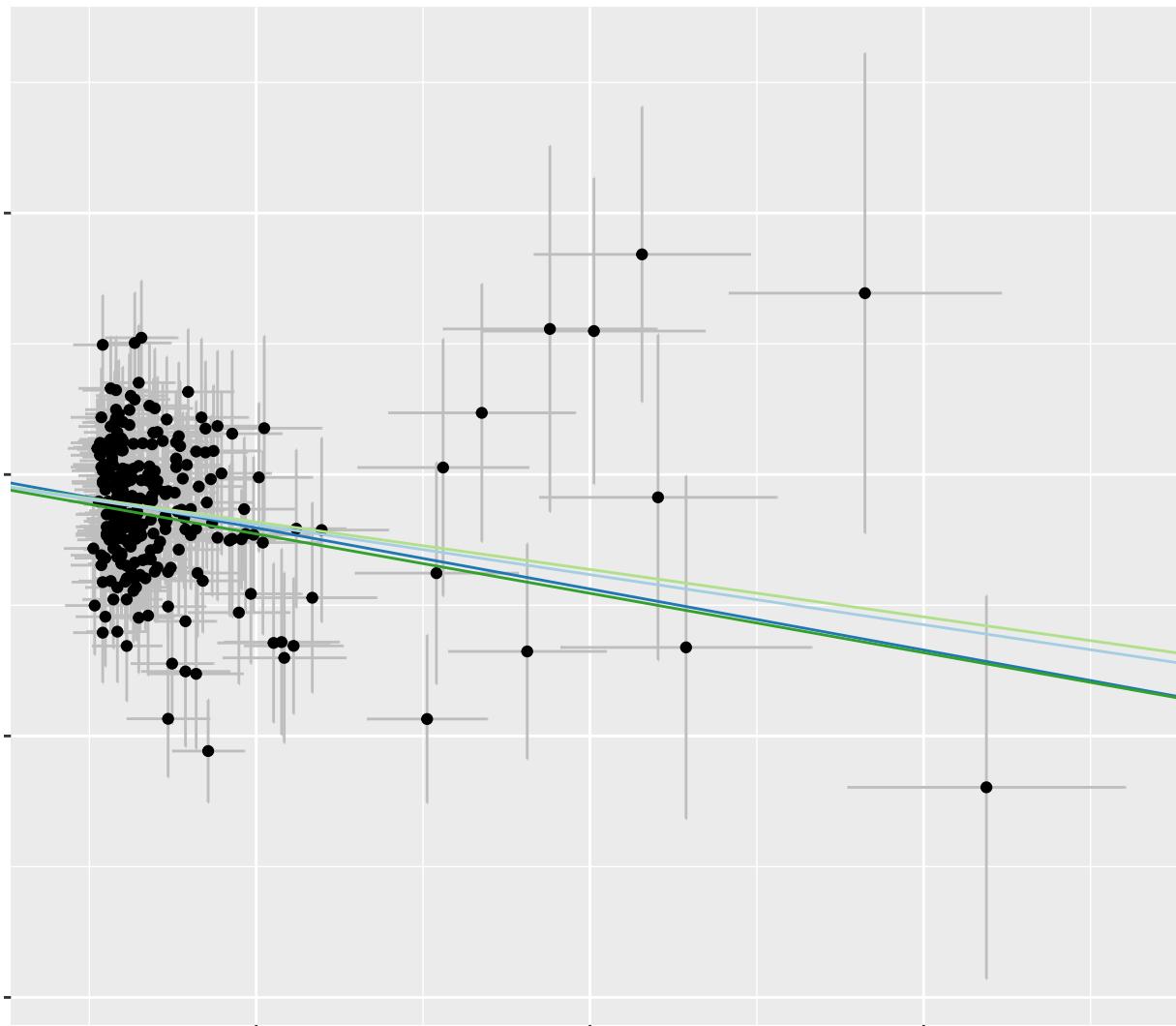
Weighted median



Weighted mode

SNP effect on Albumin\_int\_imputed.txt\_adiposity\_instruments.txt

SNP effect on BMI



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

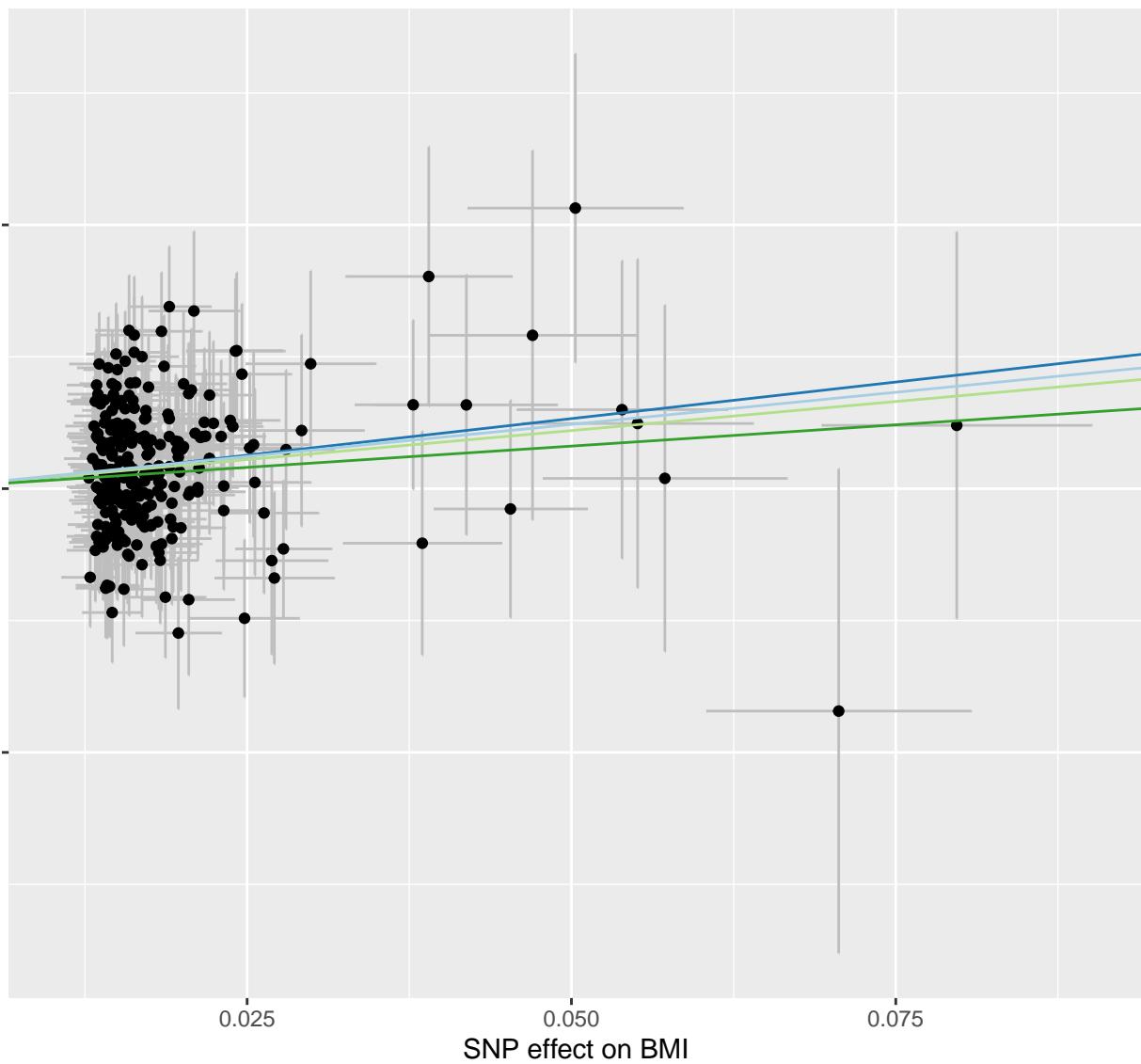


Weighted median



Weighted mode

SNP effect on Phe\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

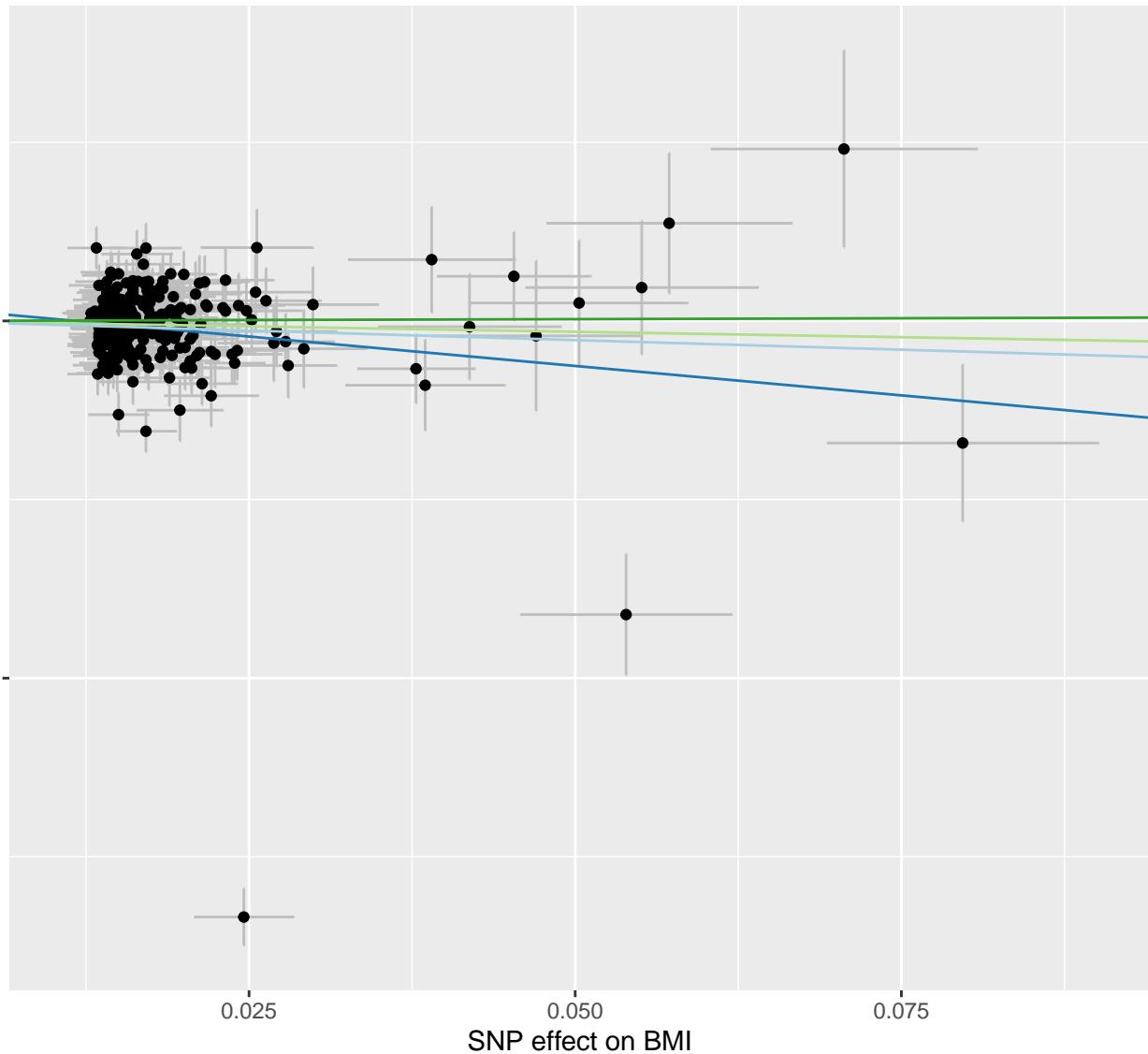


Weighted median



Weighted mode

SNP effect on LDL\_CE\_int\_imputed.txt\_adiposity\_instruments.txt



MR Test

A blue line that slopes upwards from left to right, positioned in the bottom right corner of the page.

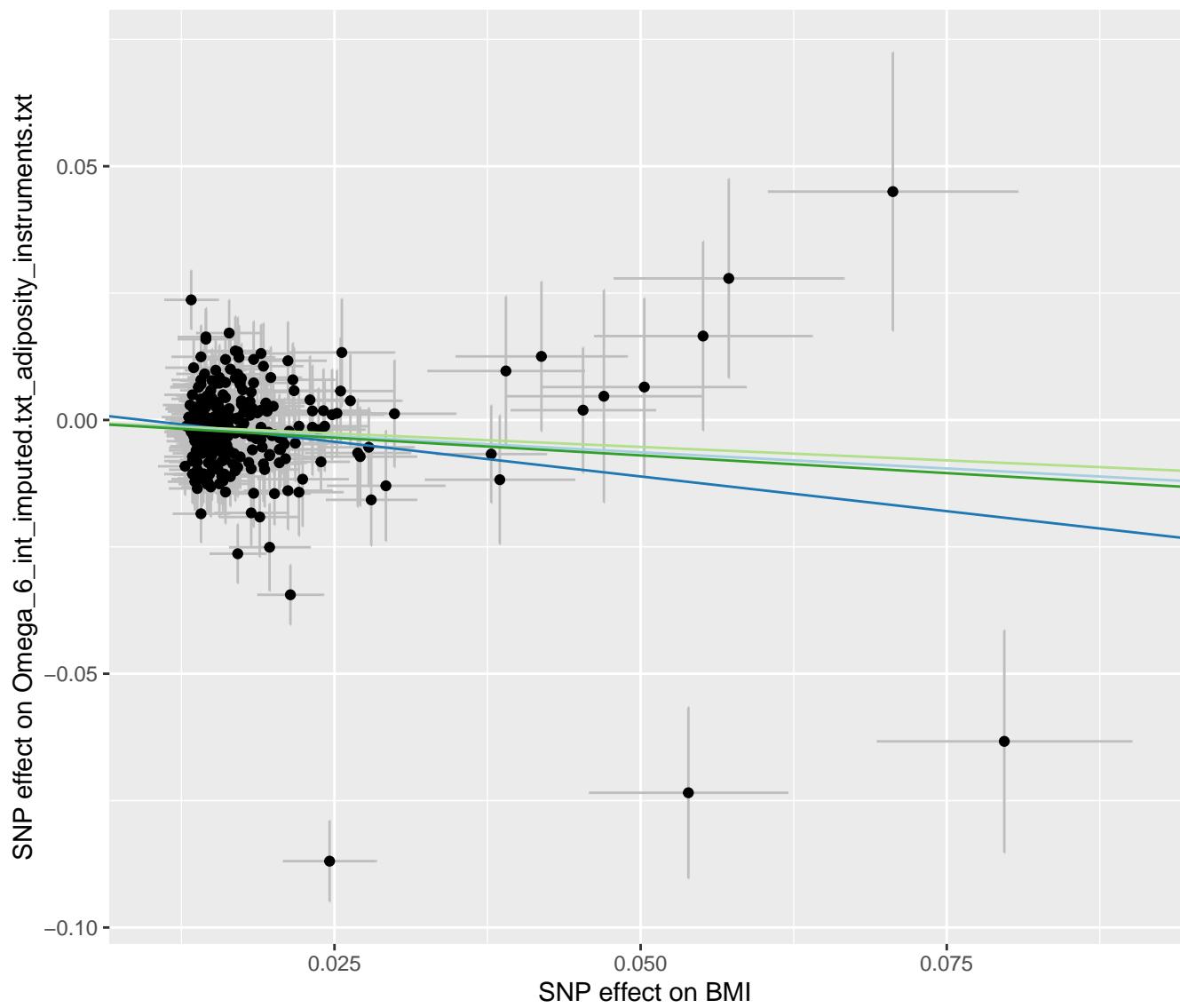
Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

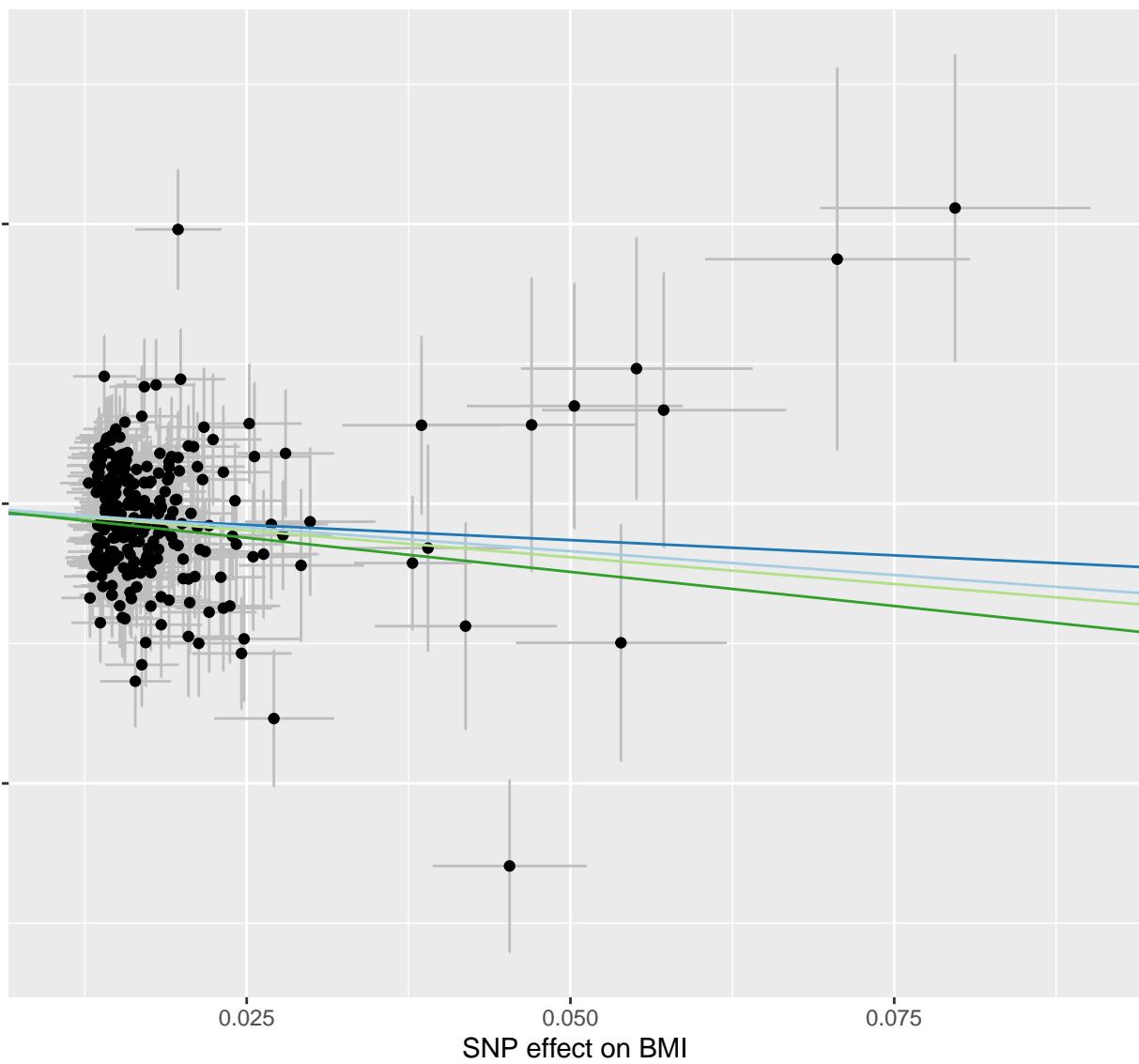


Weighted median



Weighted mode

SNP effect on Gly\_int\_imputed.txt\_adiposity\_instruments.txt



MR Test

A blue line that slopes upwards from left to right.

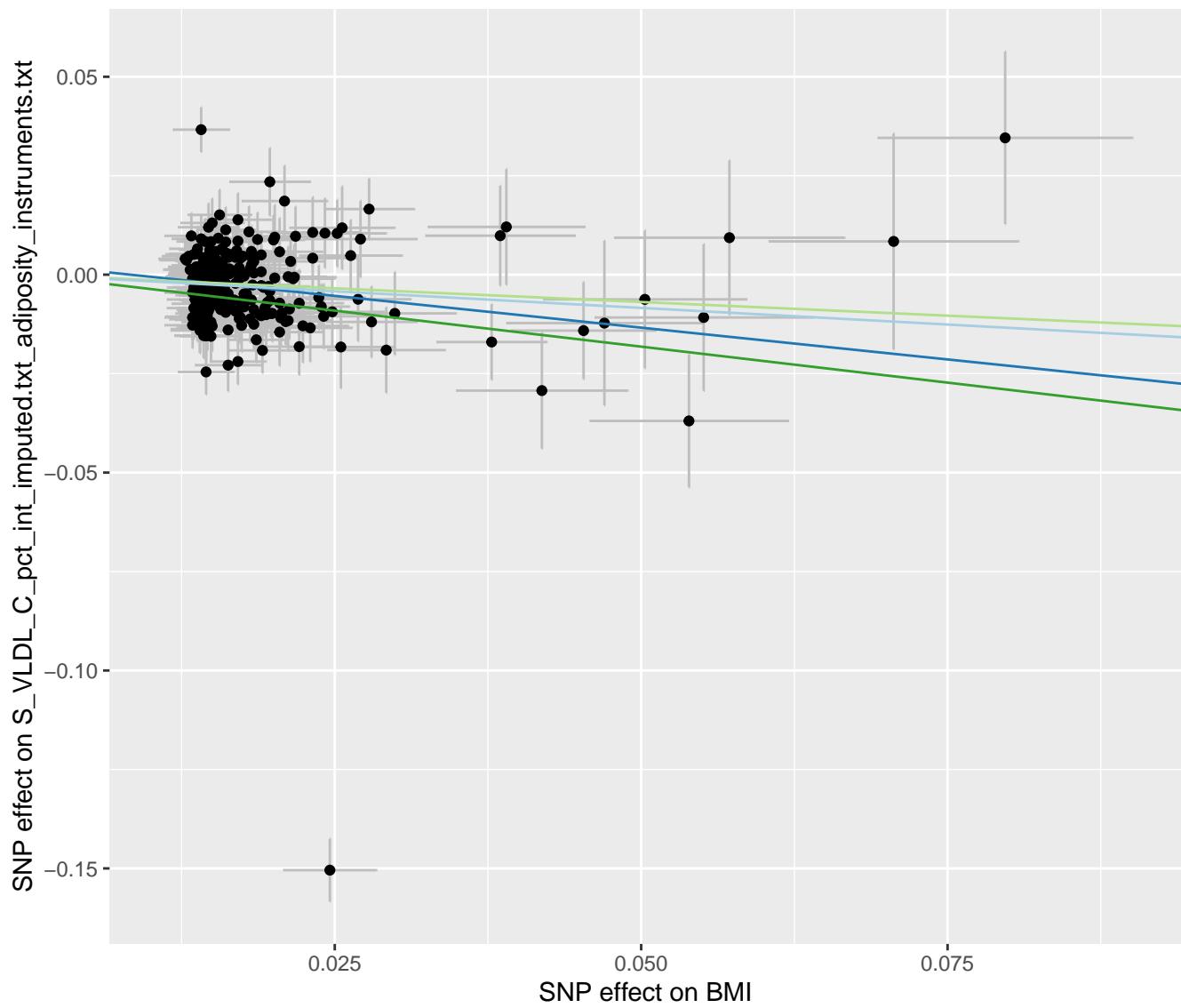
Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



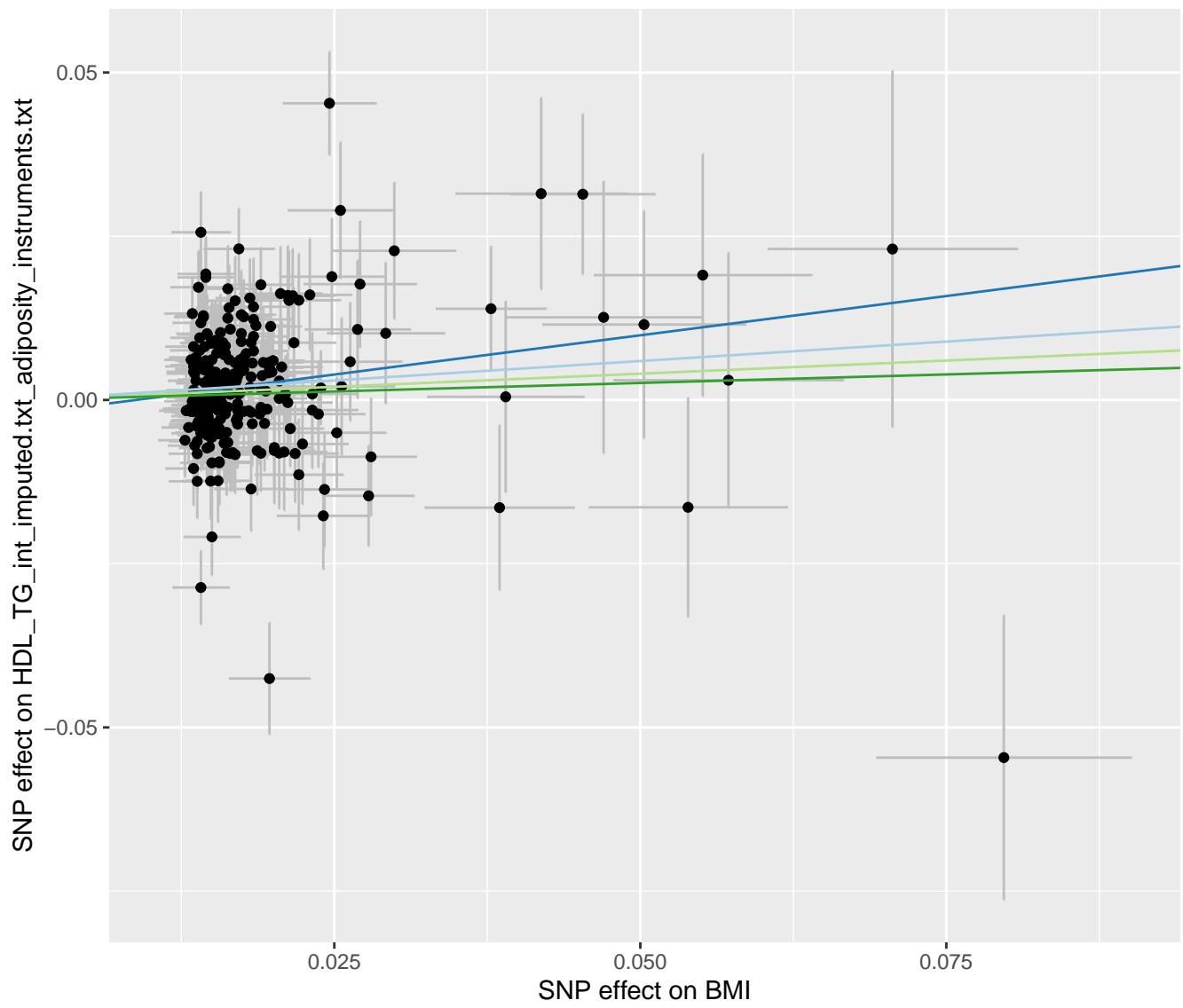
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

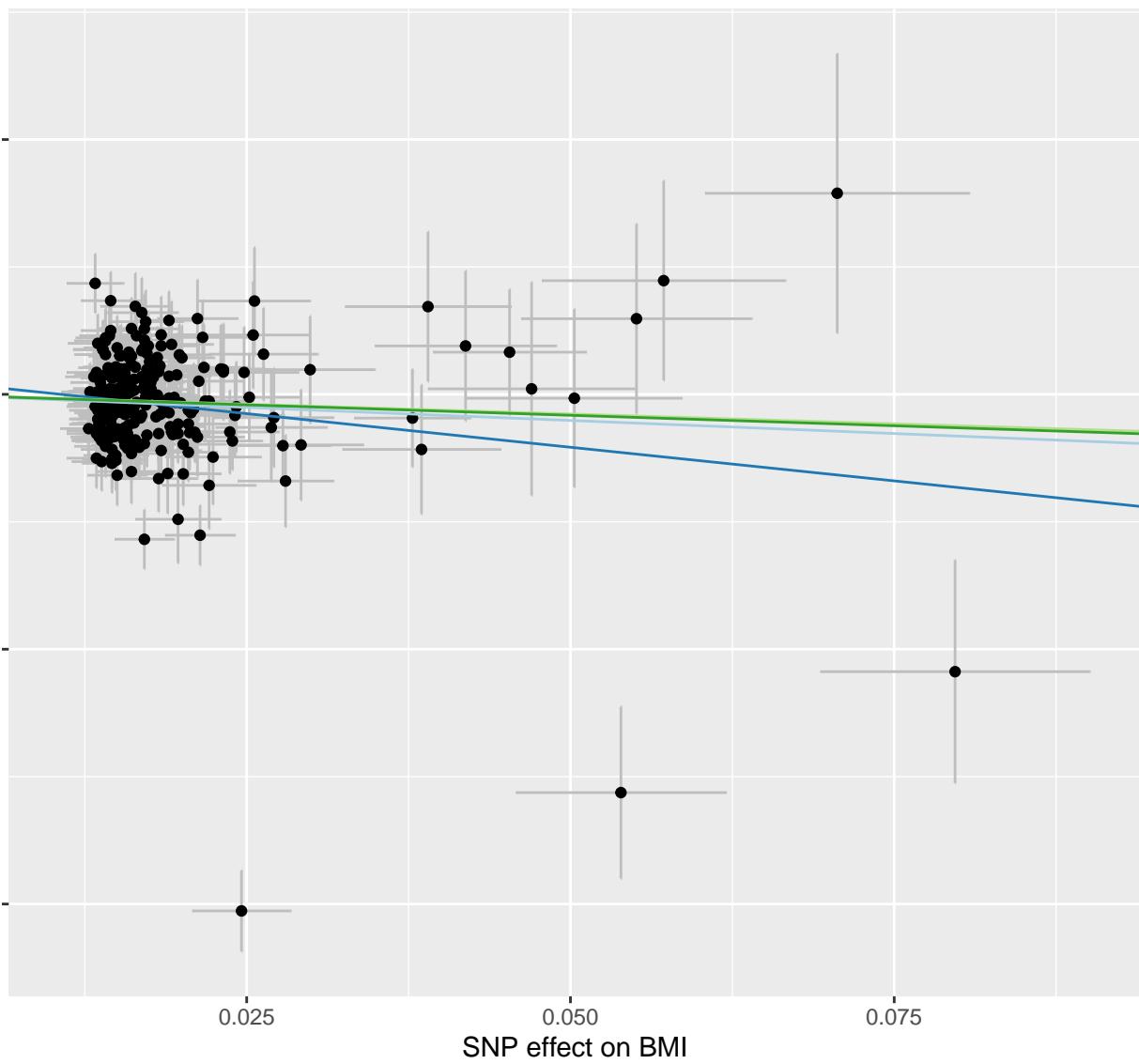


Weighted median



Weighted mode

SNP effect on Total\_L\_int\_imputed.txt\_adiposity\_instruments.txt



## MR Test



Inverse variance weighted (multiplicative random effects)



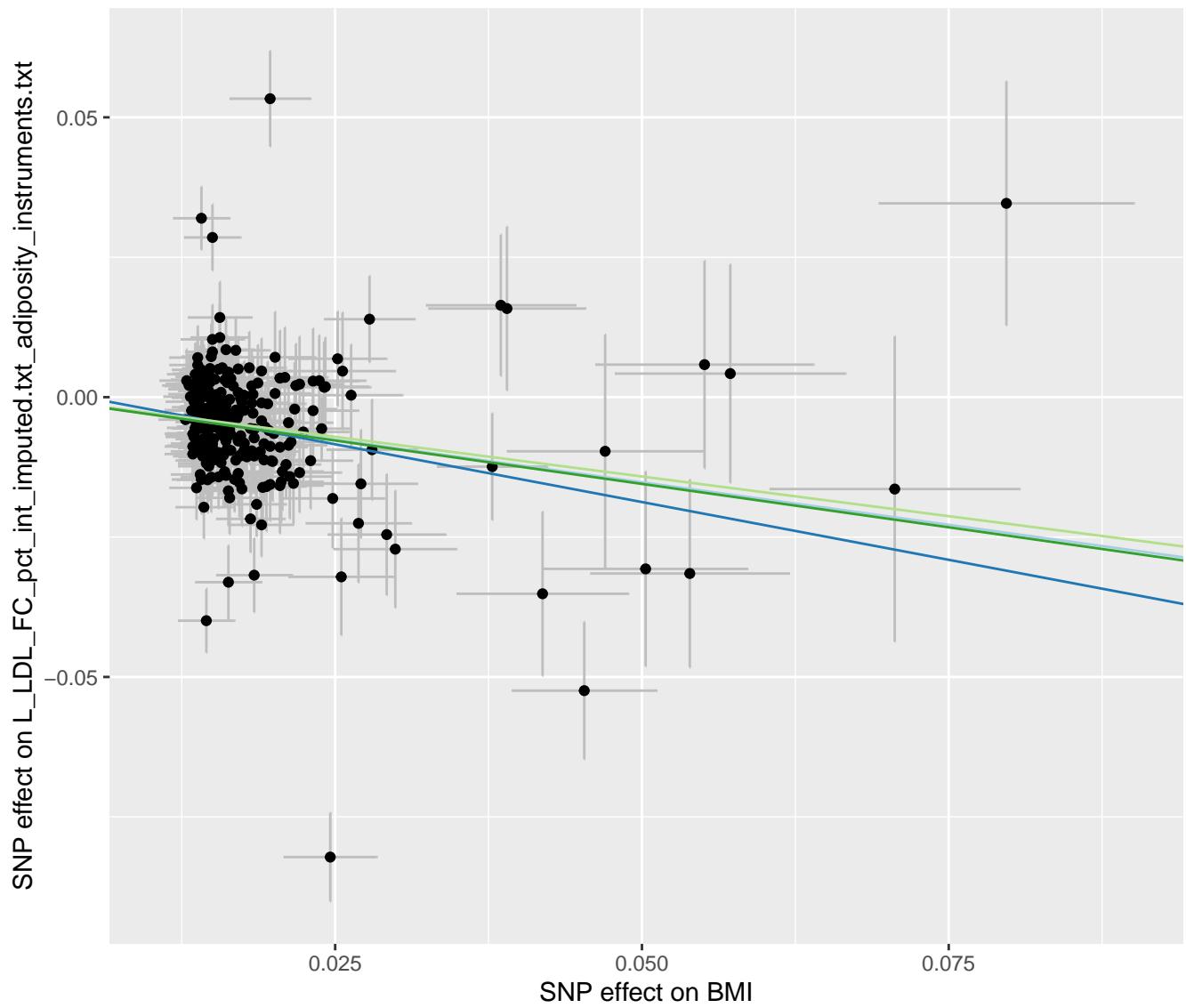
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



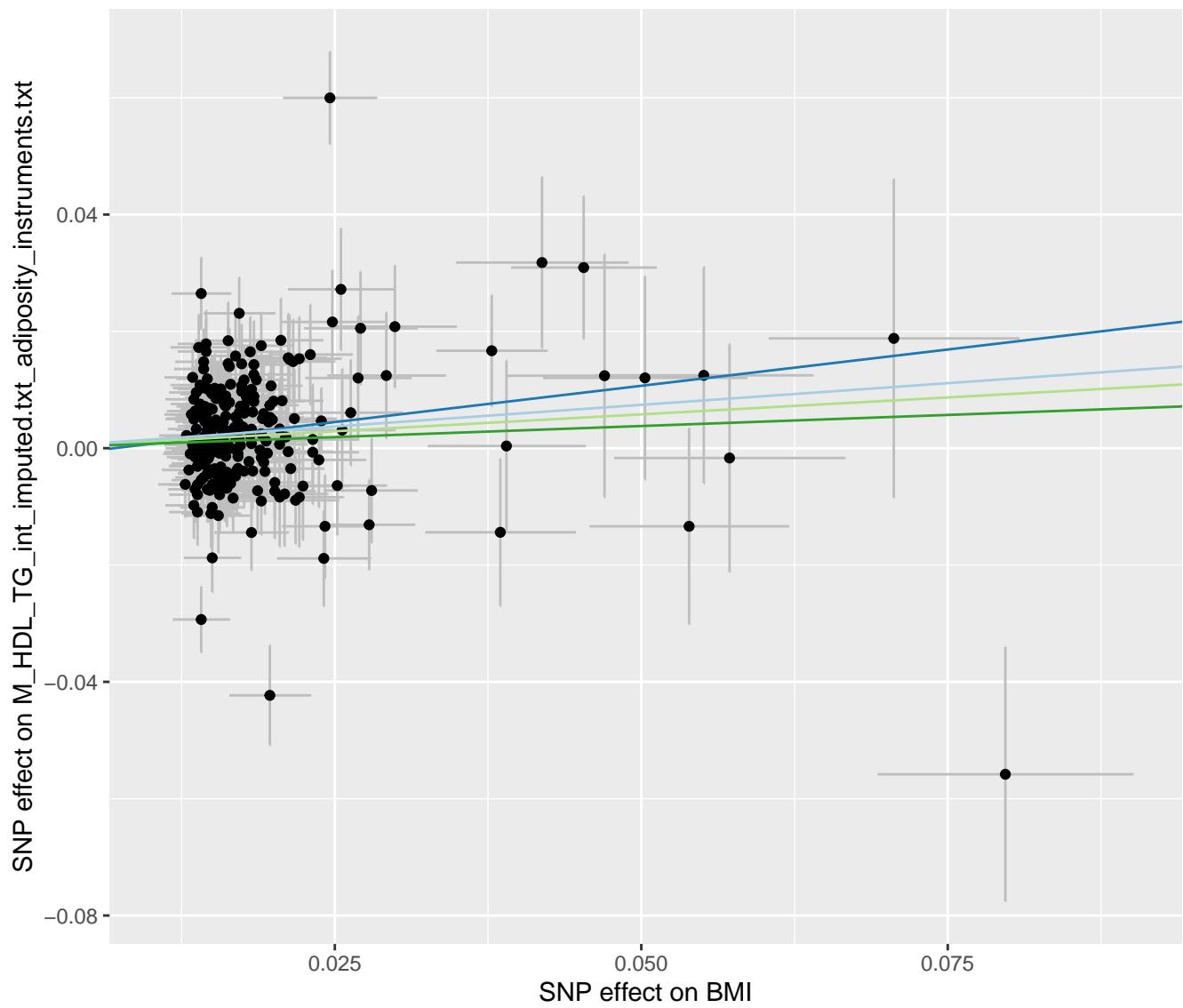
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



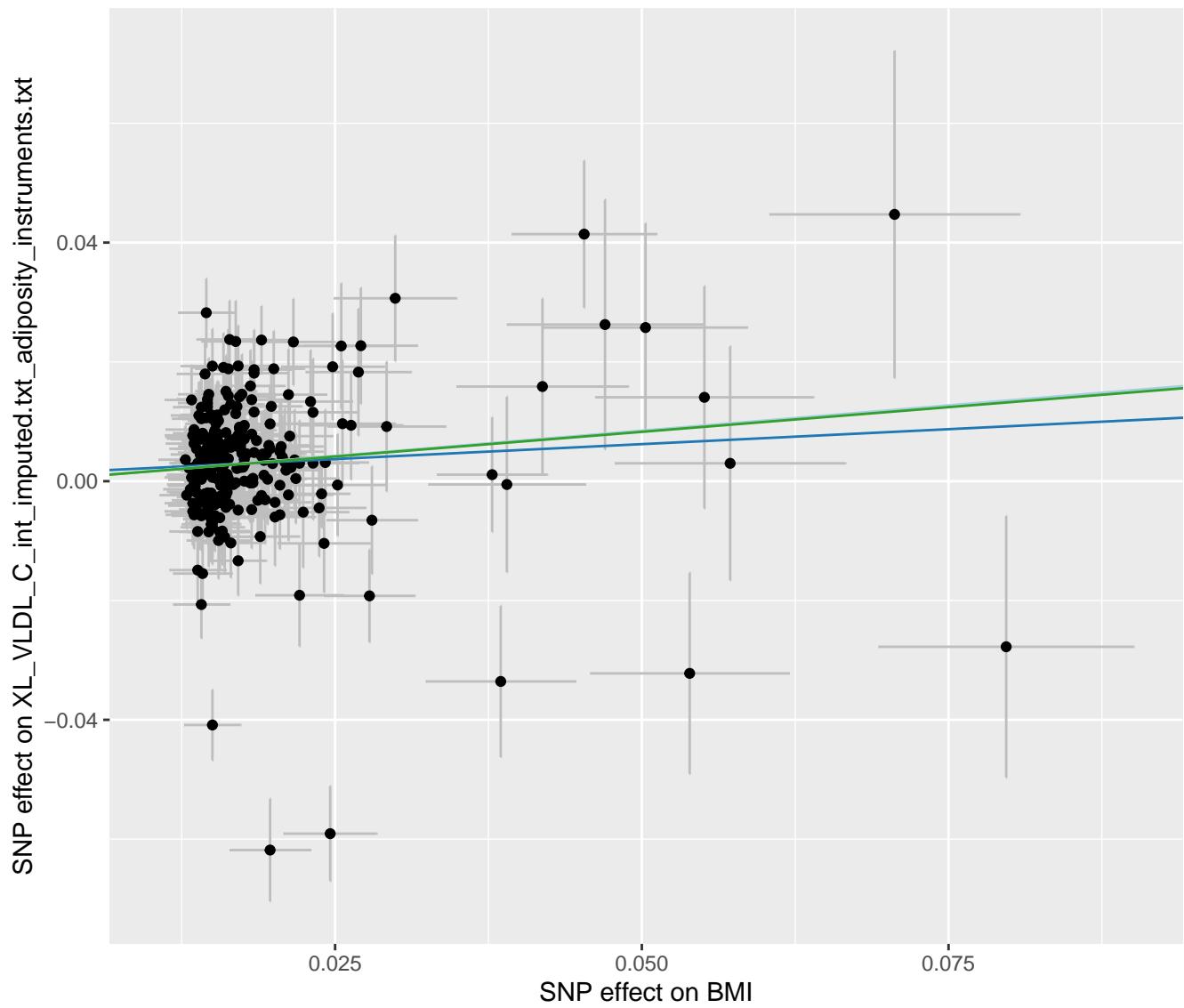
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



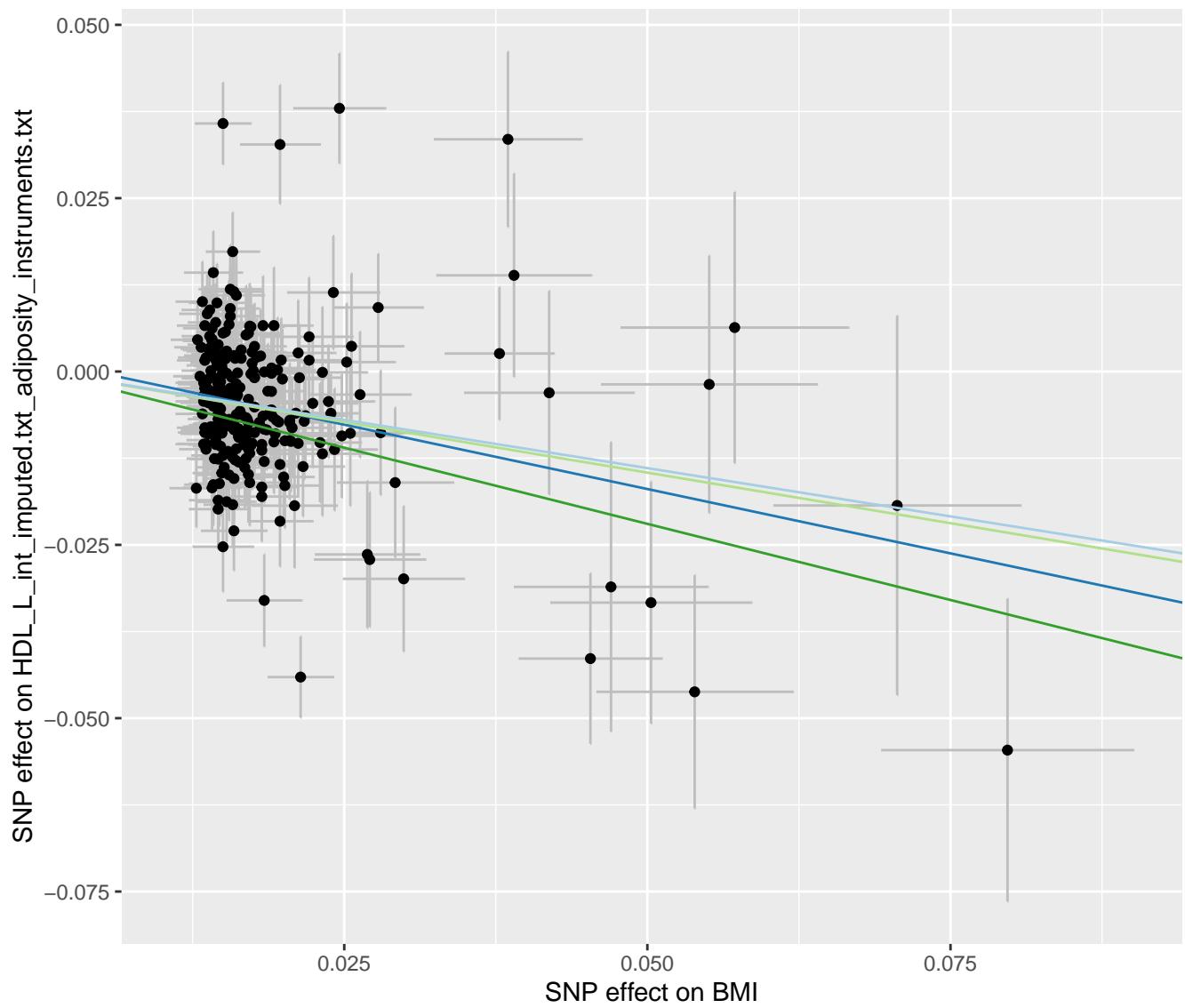
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

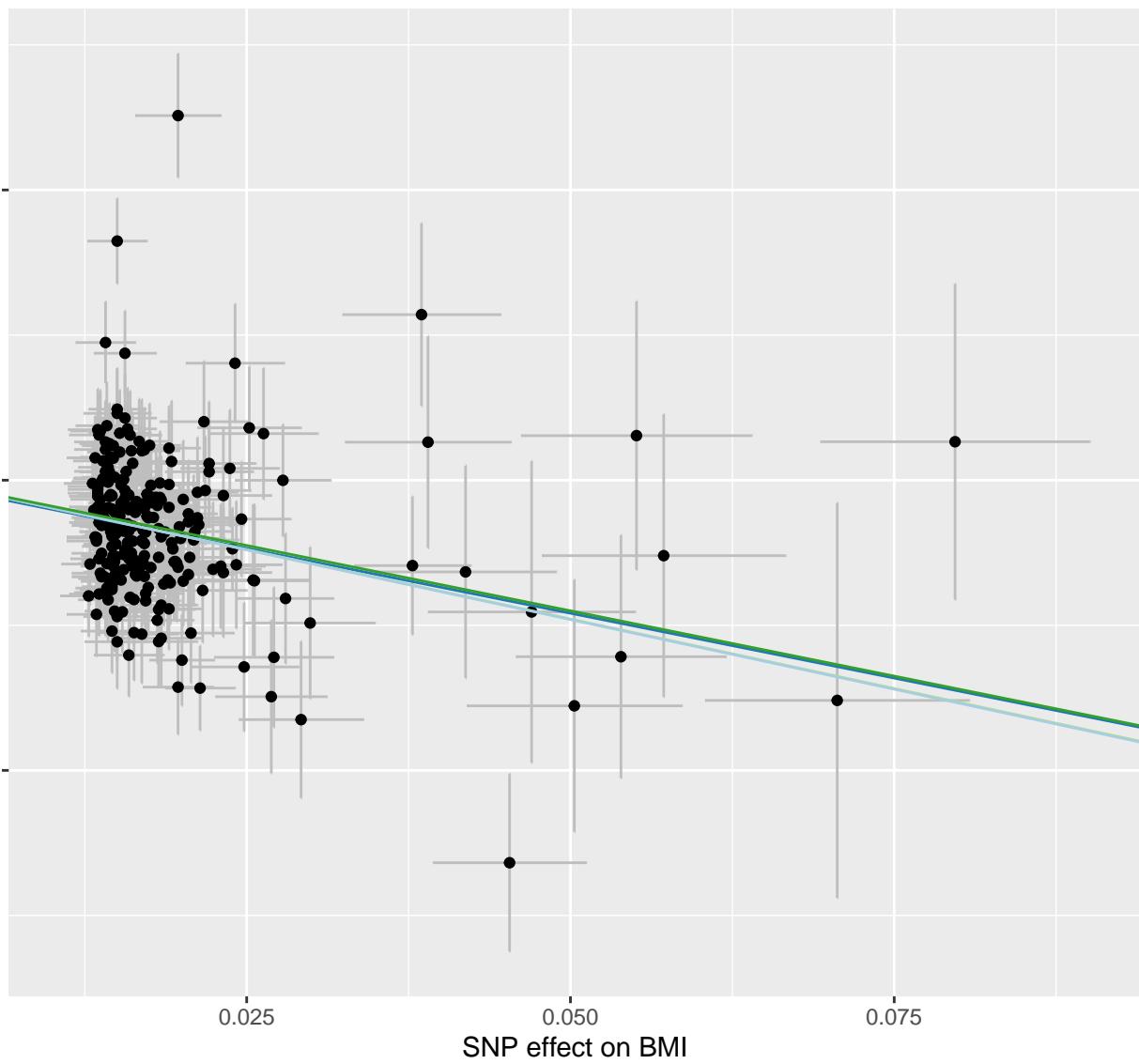


Weighted median



Weighted mode

SNP effect on XL\_HDL\_PL\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

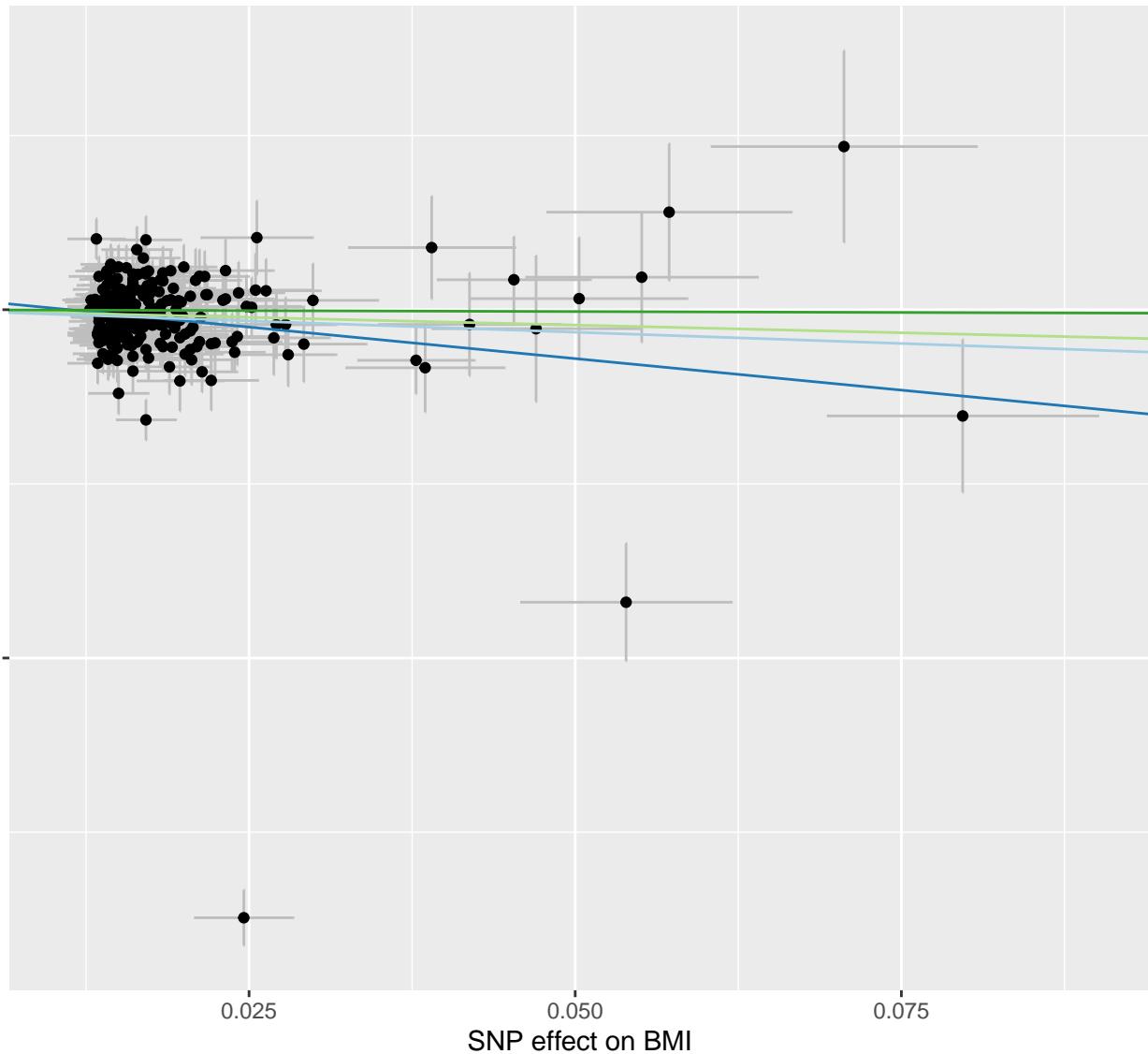


Weighted median



Weighted mode

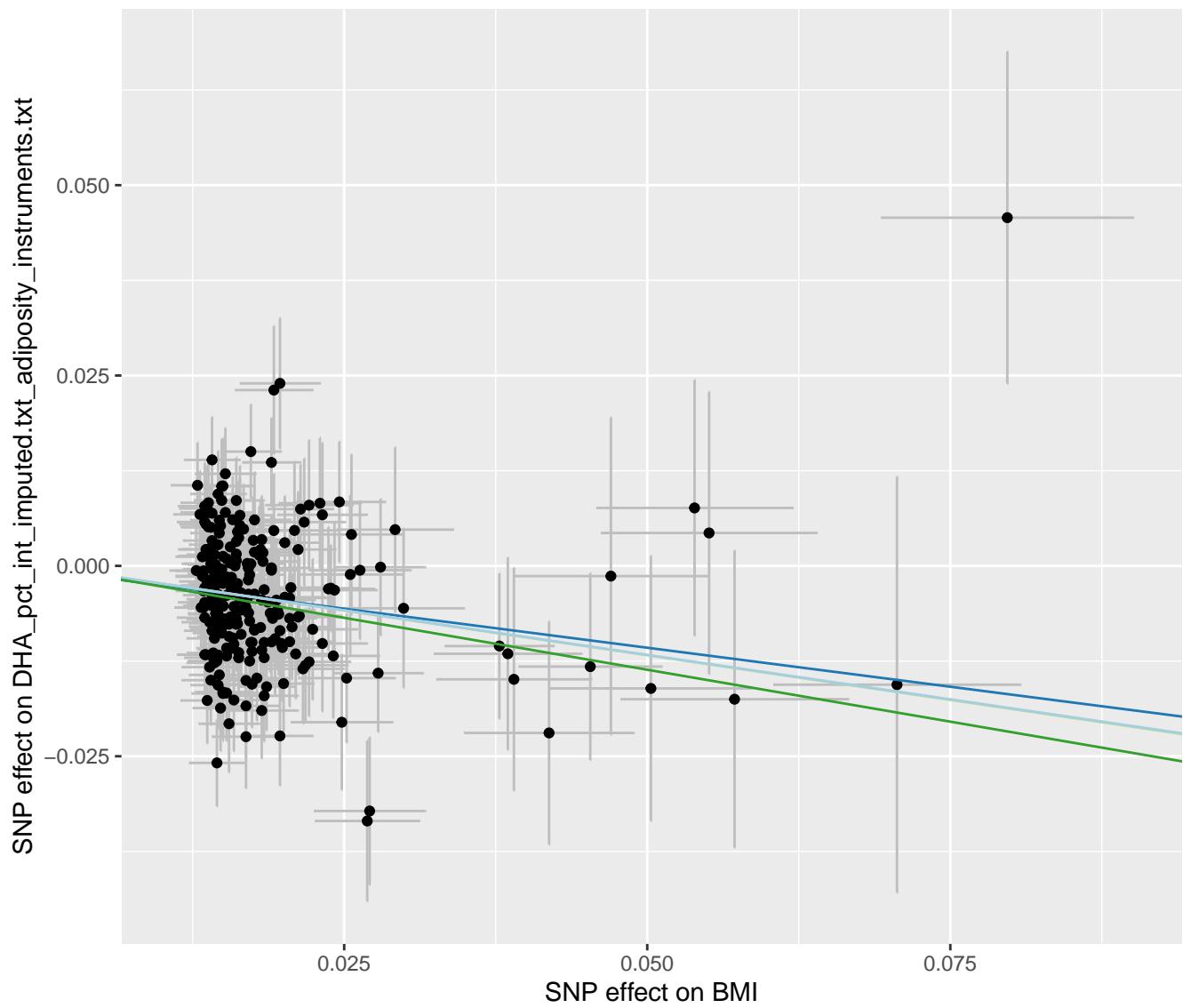
SNP effect on LDL\_C\_int\_imputed.txt\_adiposity\_instruments.txt



## MR Test

Inverse variance weighted (multiplicative random effects)  
MR Egger

Weighted median  
Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



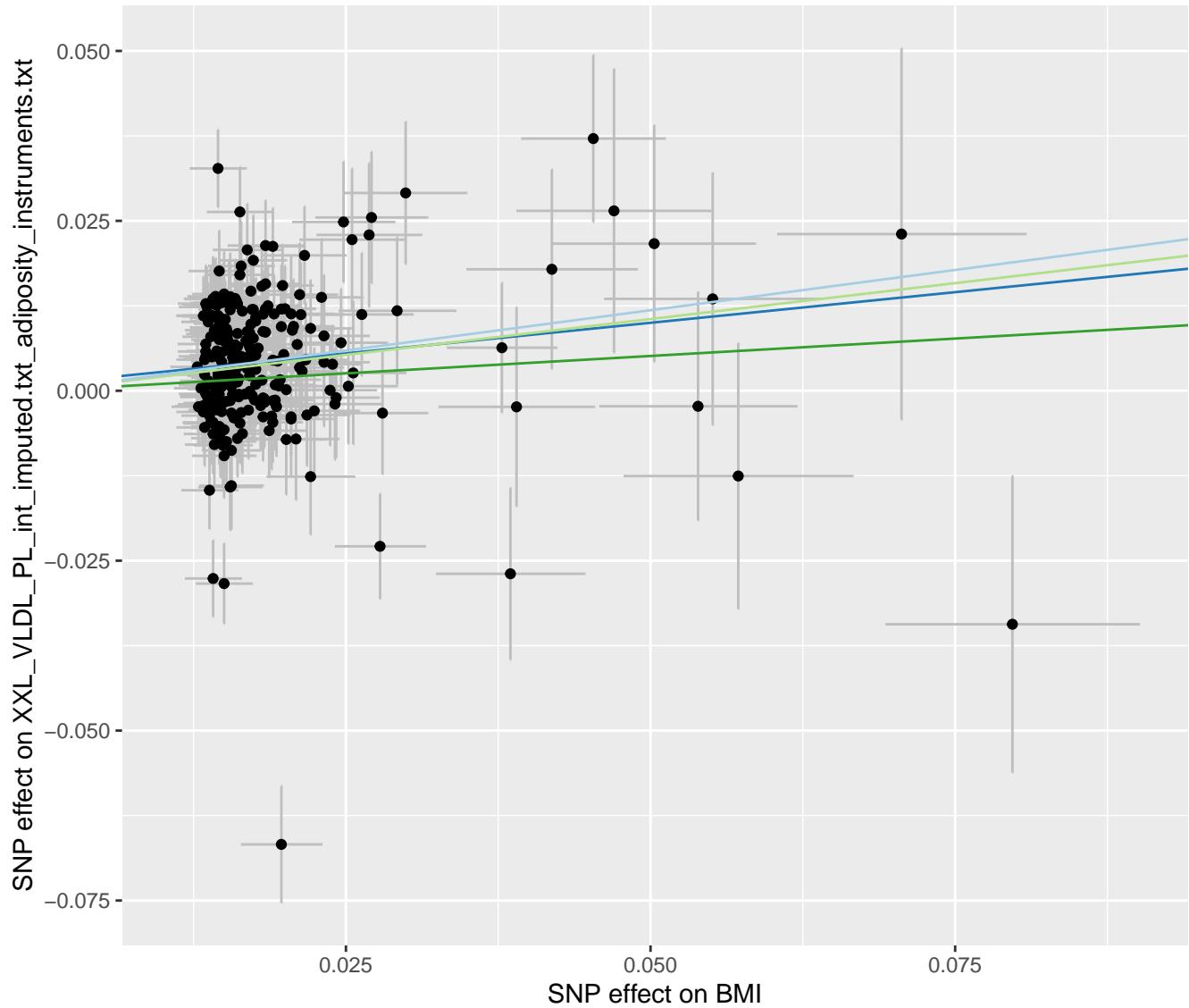
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on XXL\_VLDL\_C\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

0.04

0.00

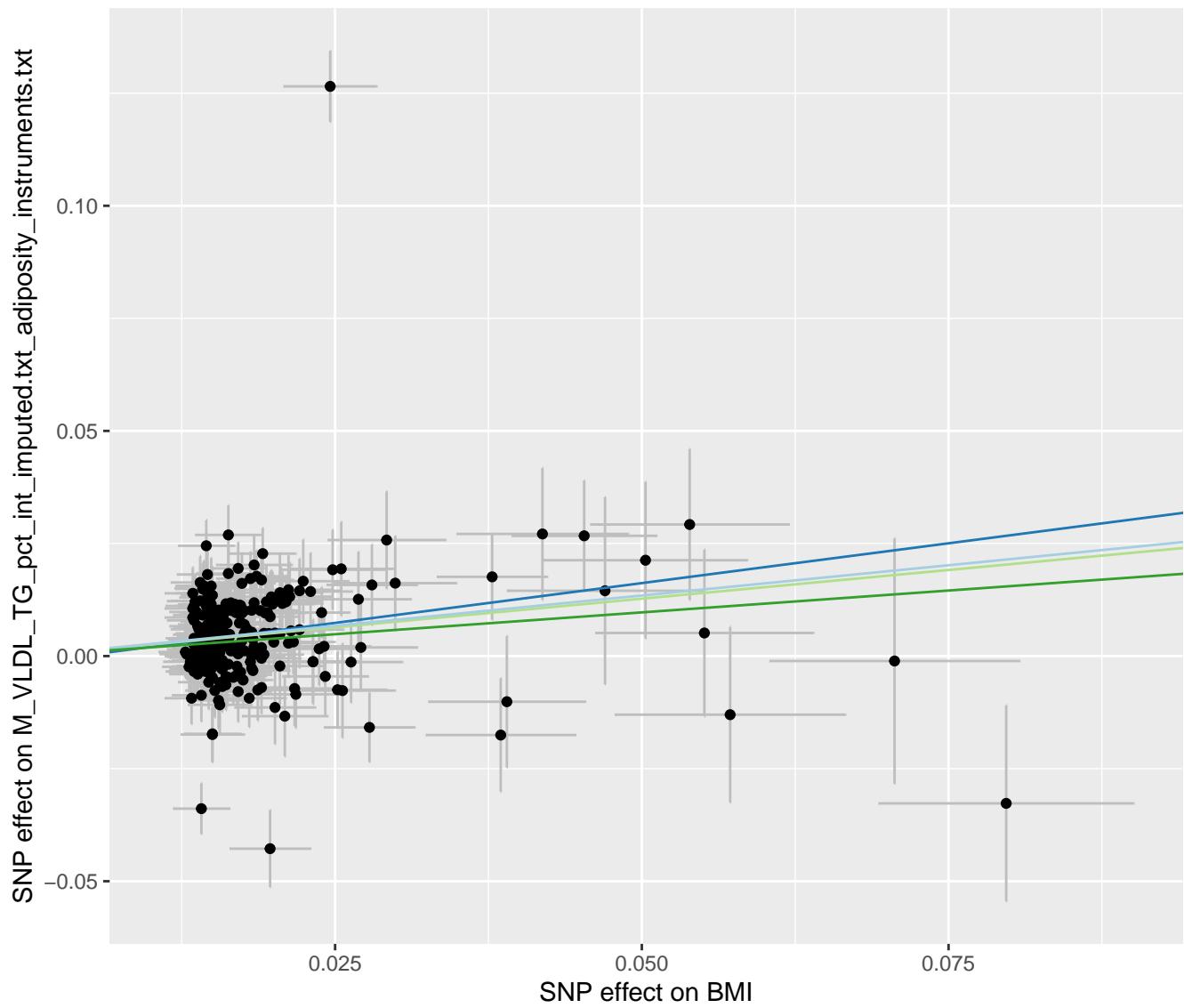
-0.04

-0.08

### MR Test

Legend:

- Inverse variance weighted (multiplicative random effects)
- MR Egger
- Weighted median
- Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

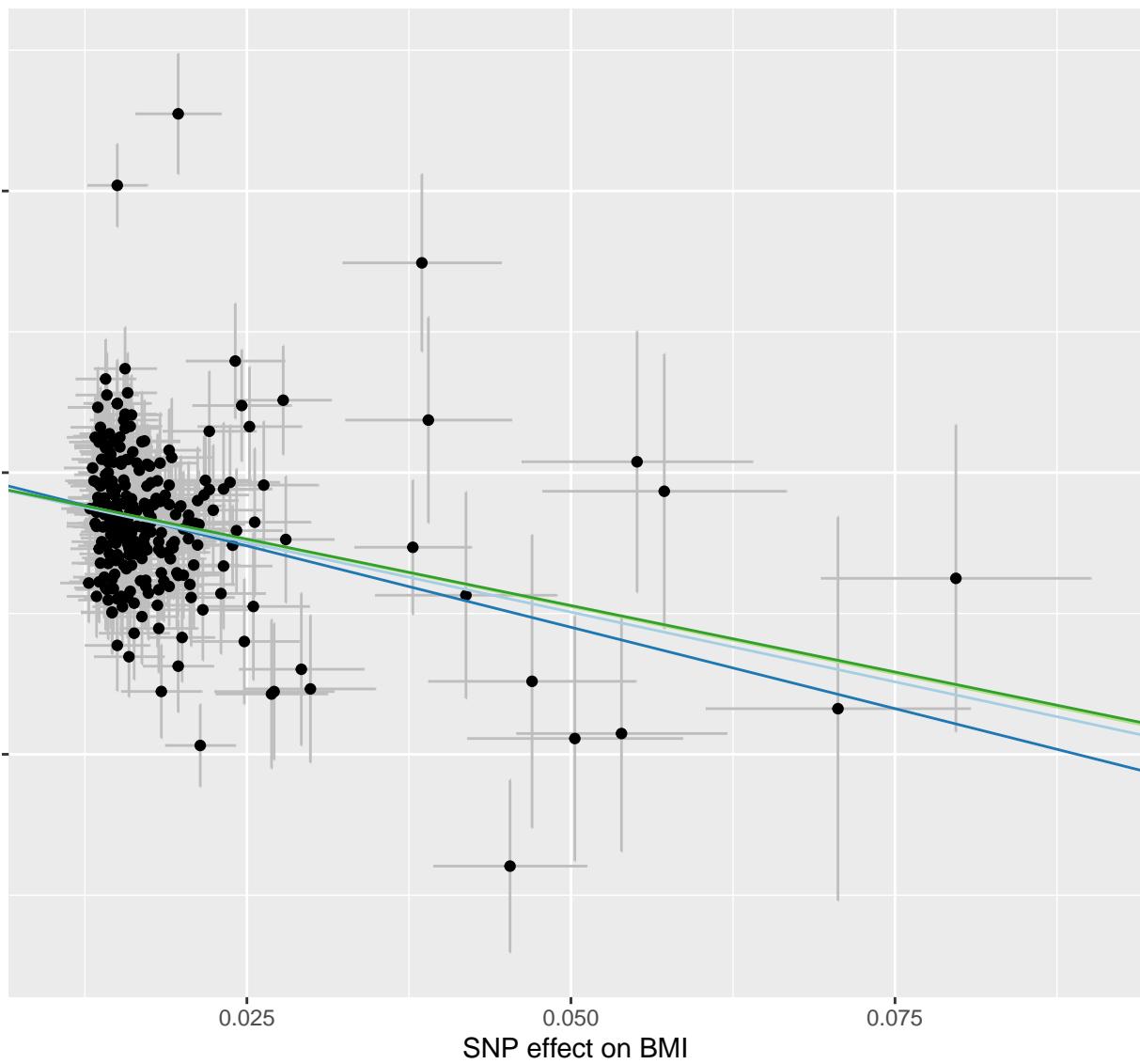


Weighted median



Weighted mode

SNP effect on L\_HDL\_CE\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



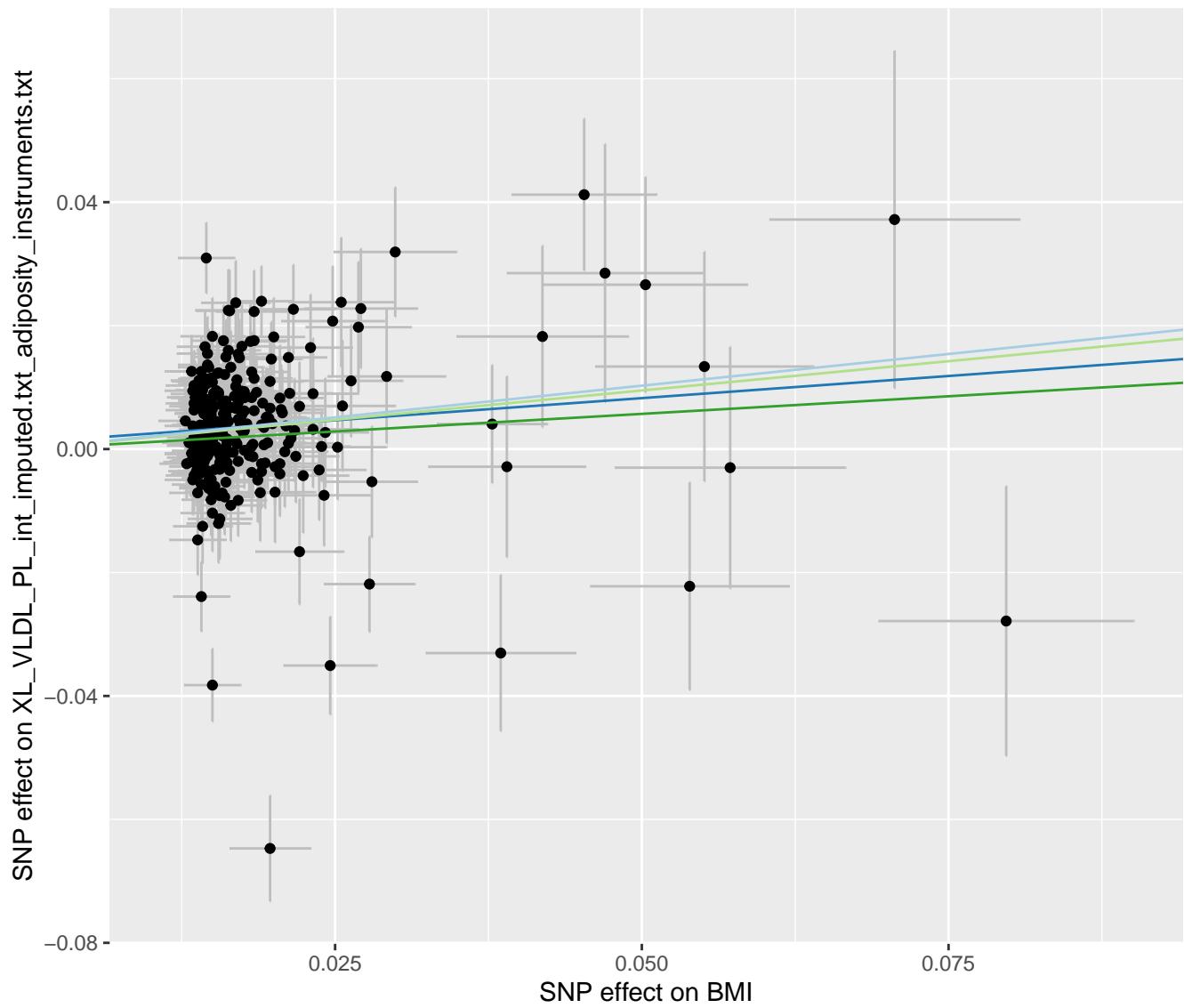
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



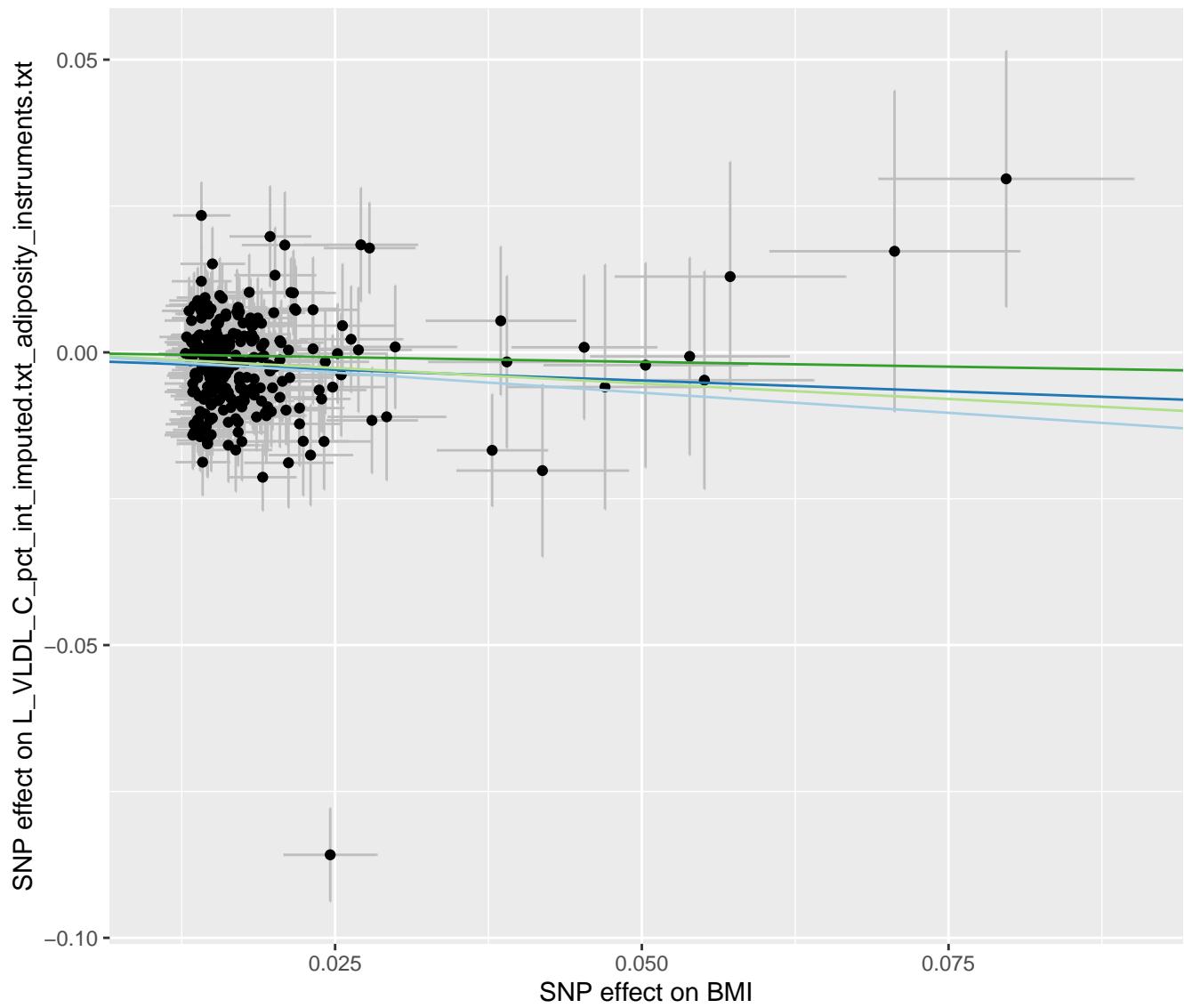
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

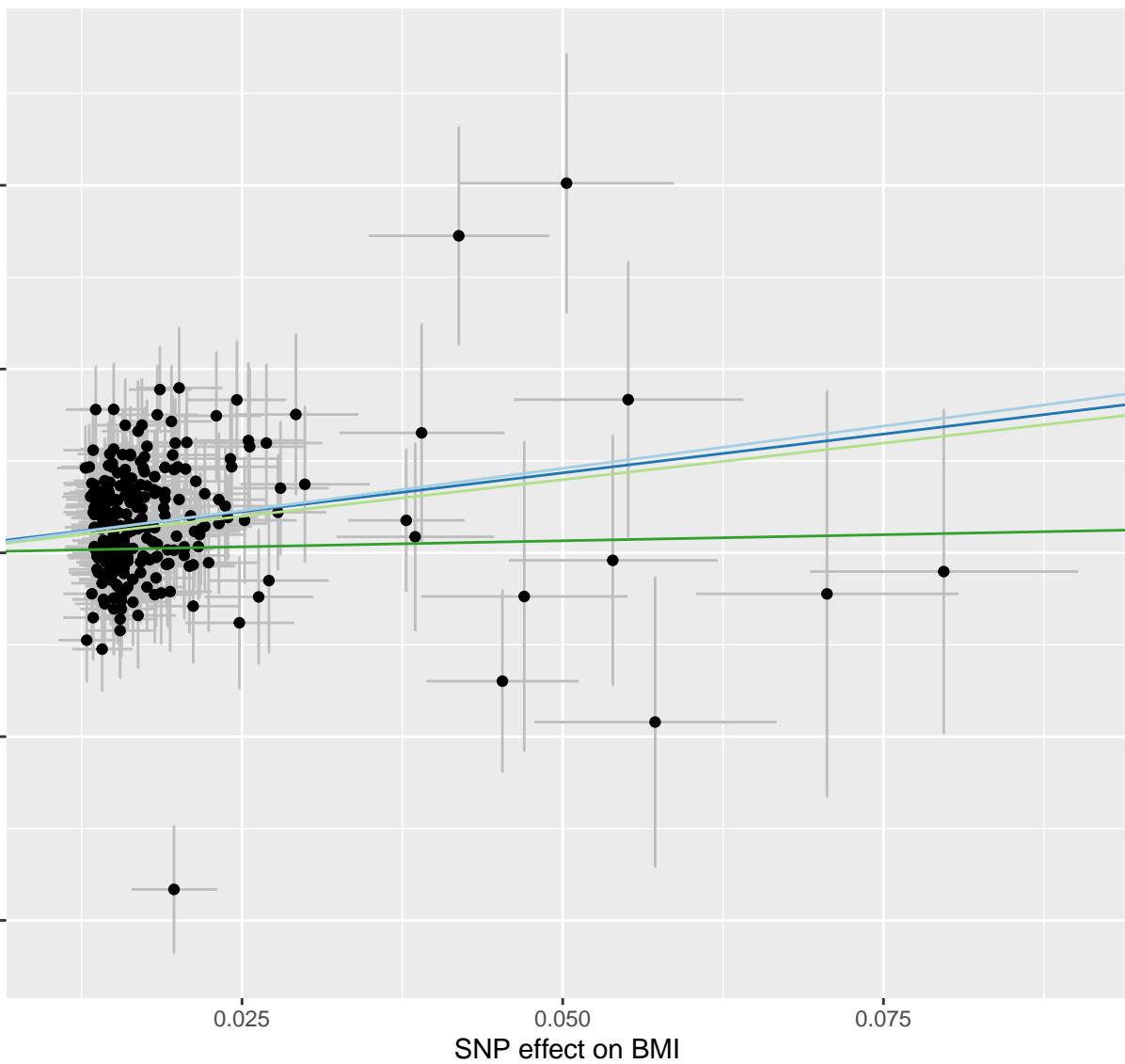


Weighted median



Weighted mode

SNP effect on Leu\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)



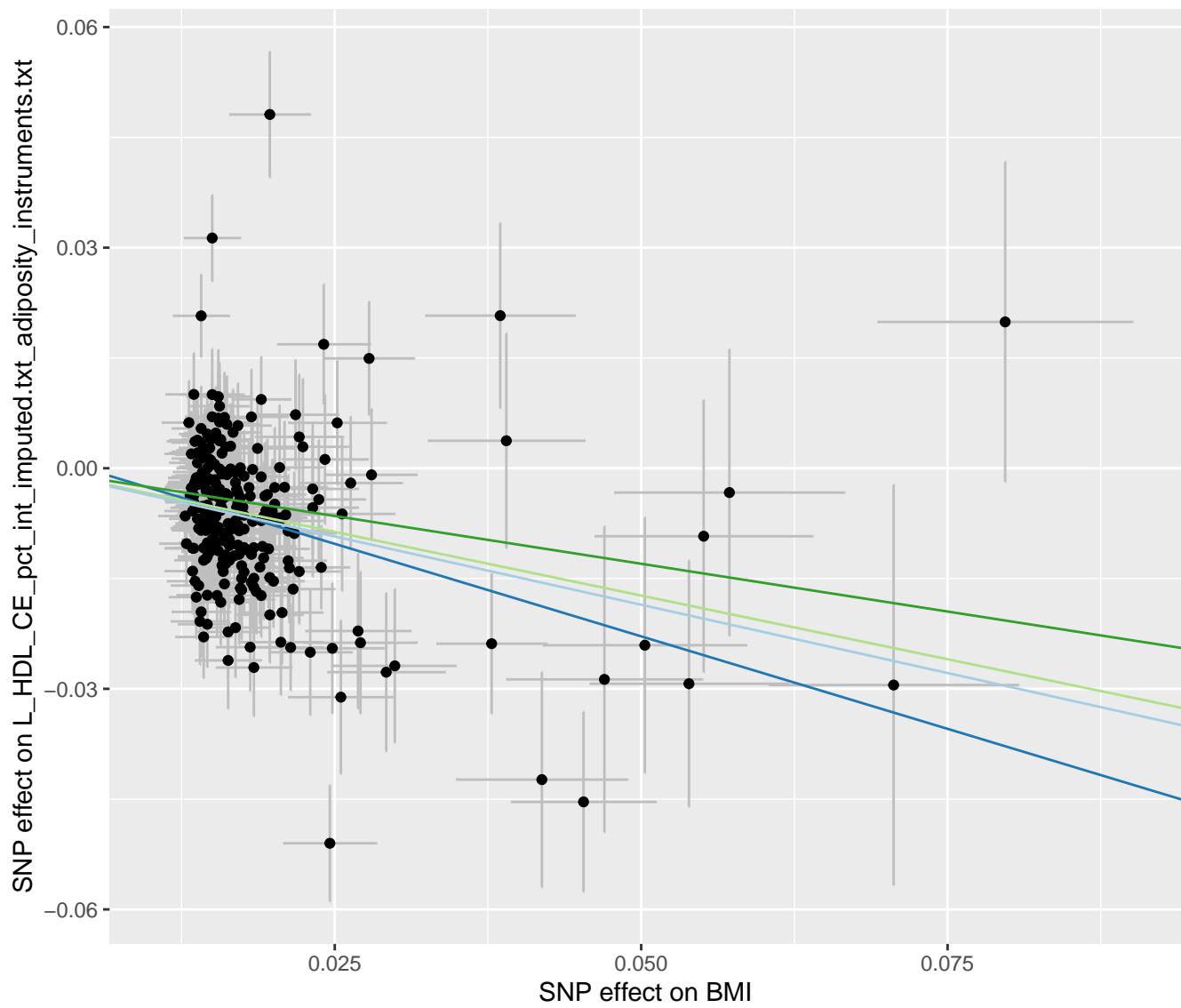
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

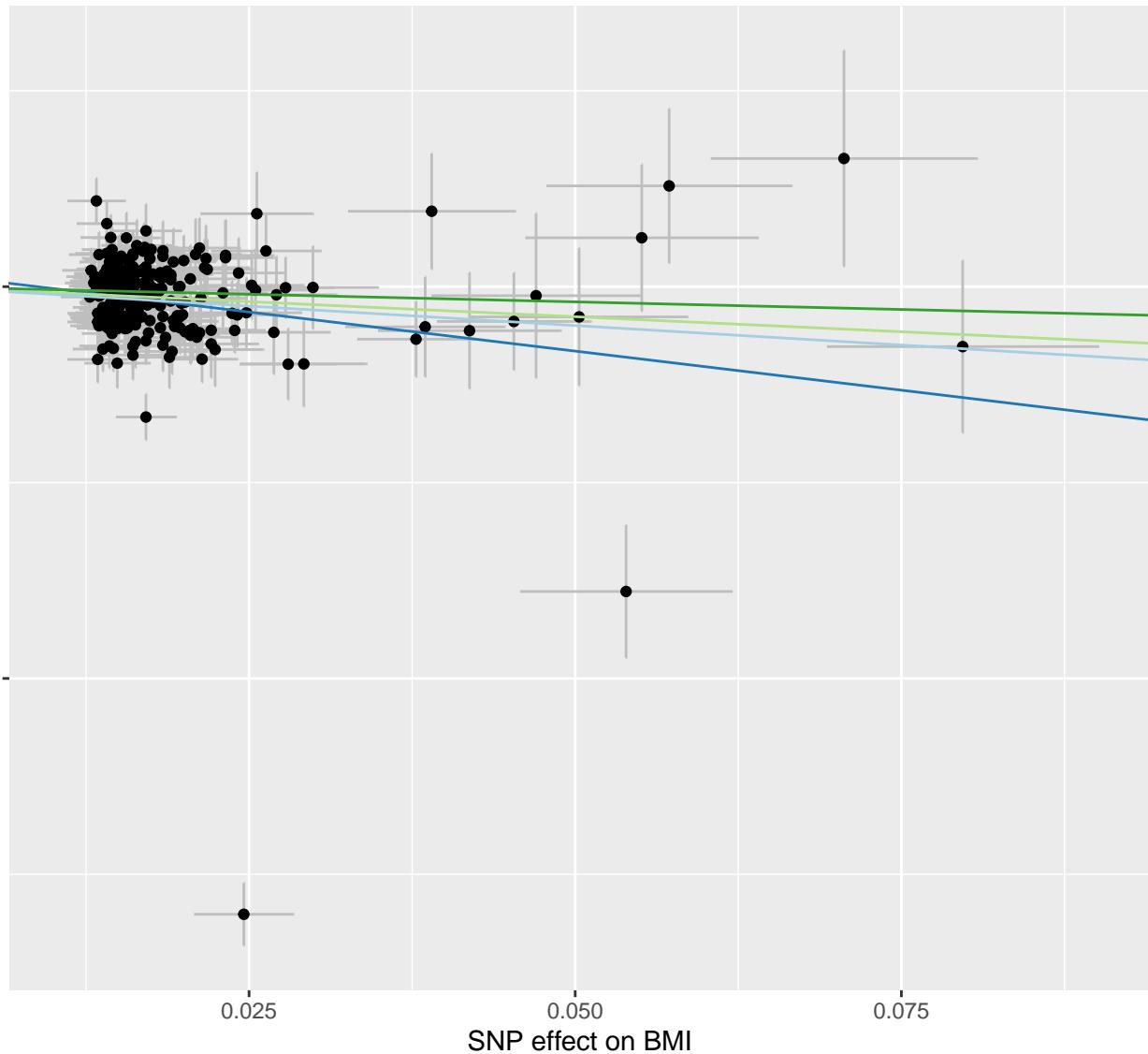


Weighted median



Weighted mode

SNP effect on IDL\_FC\_int\_imputed.txt\_adiposity\_instruments.txt



MR Test

A blue line that slopes upwards from left to right.

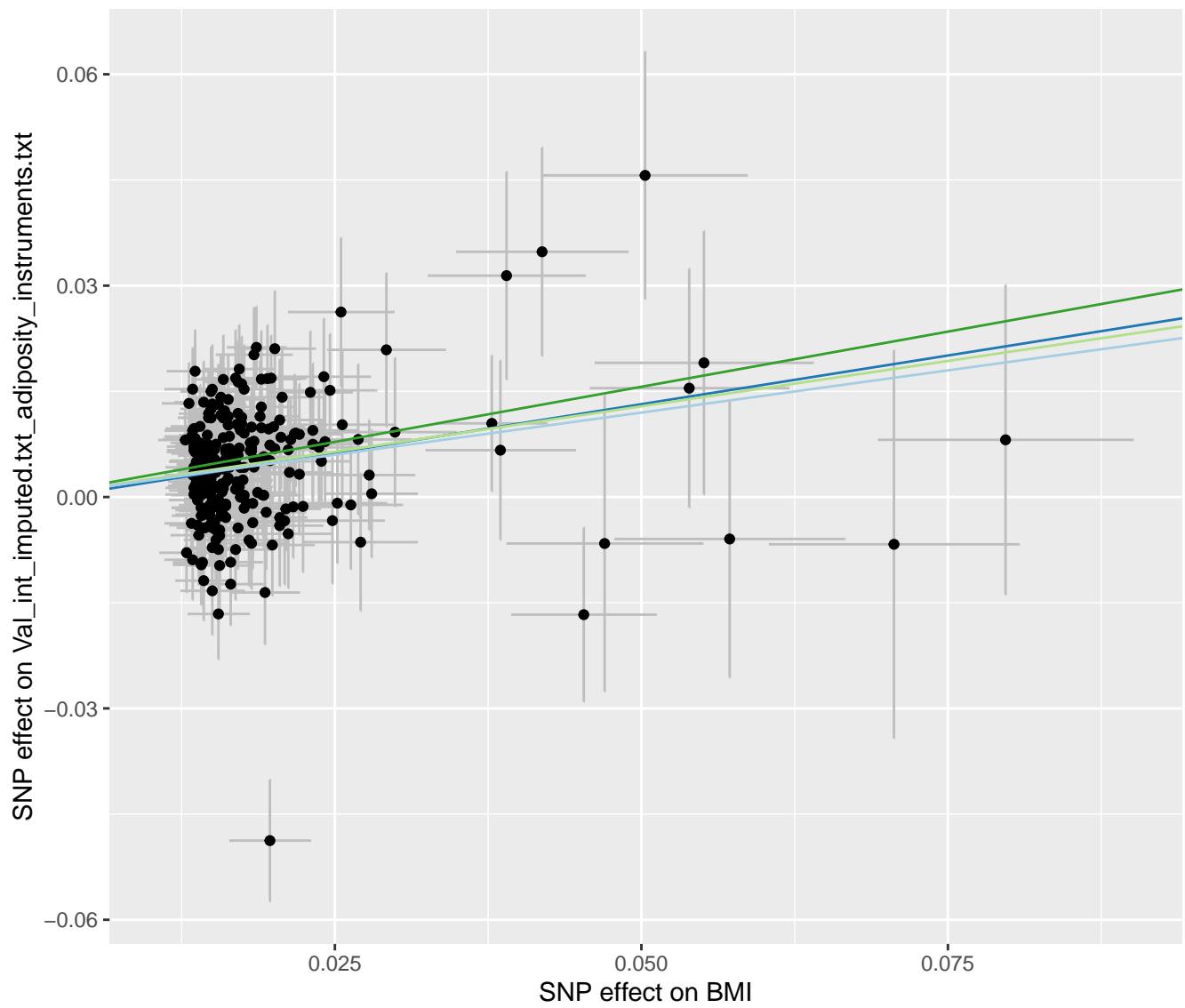
### Inverse variance weighted (multiplicative random effects)

MR Egger

10 of 10

## Weighted median

## Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



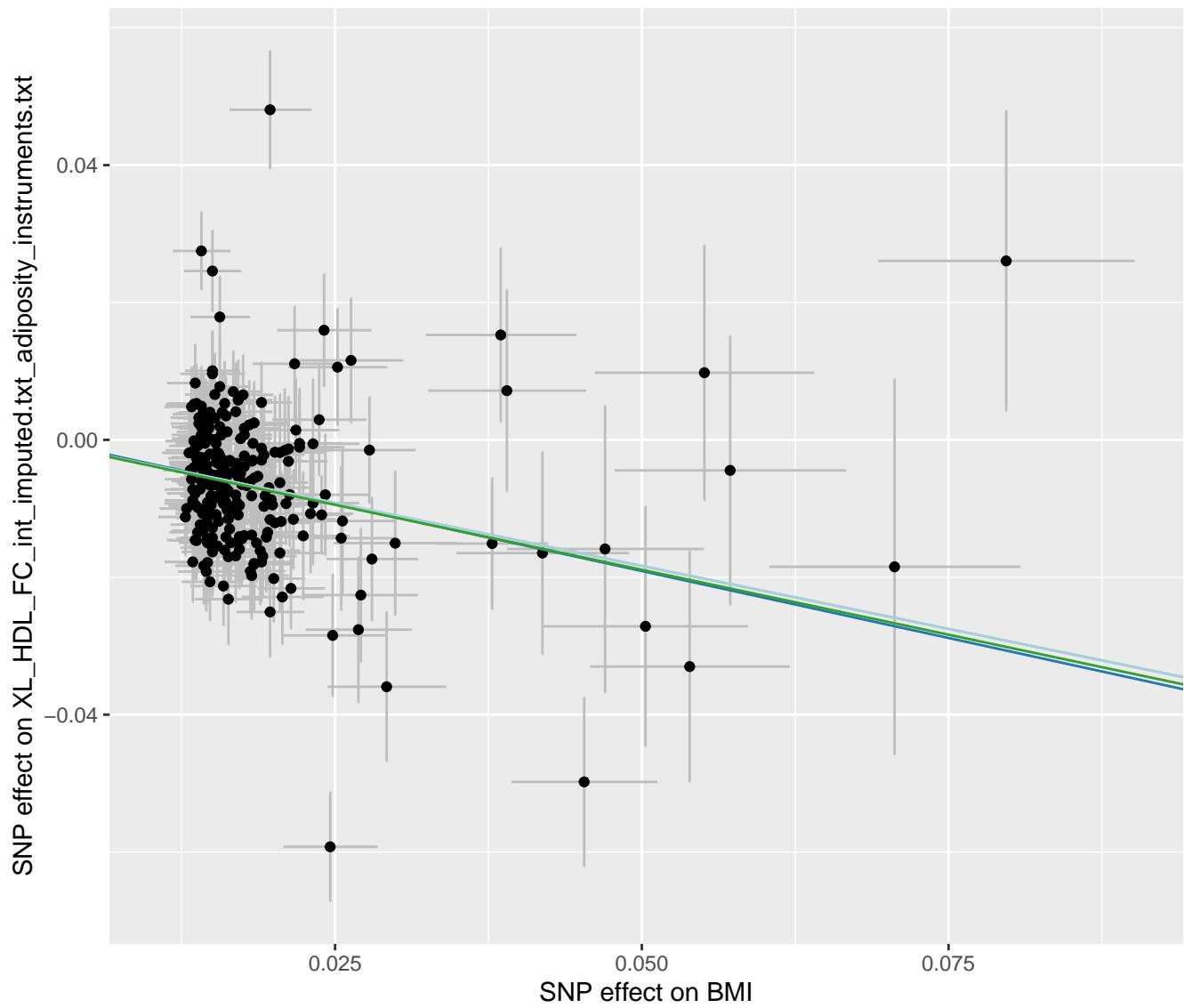
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



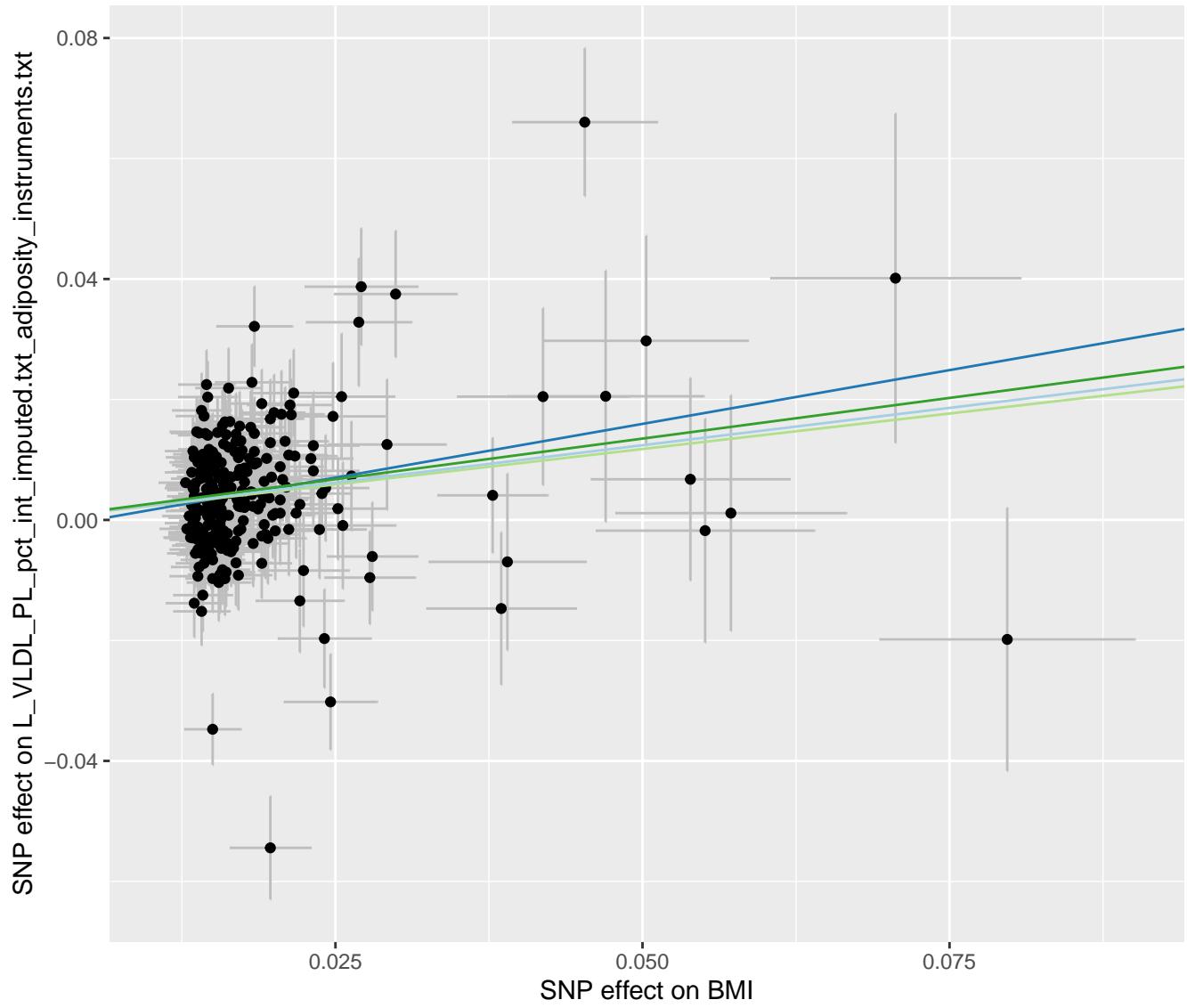
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



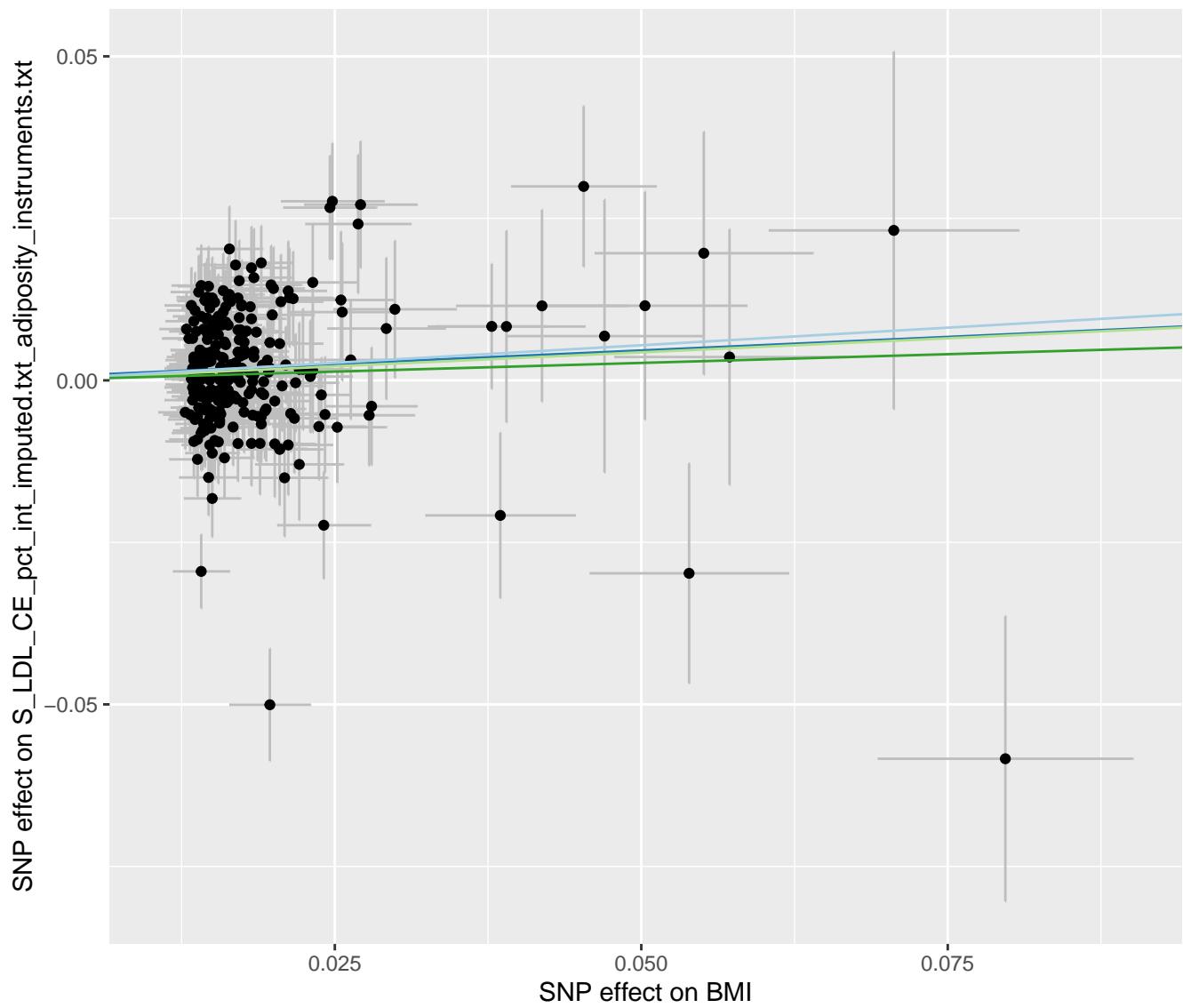
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



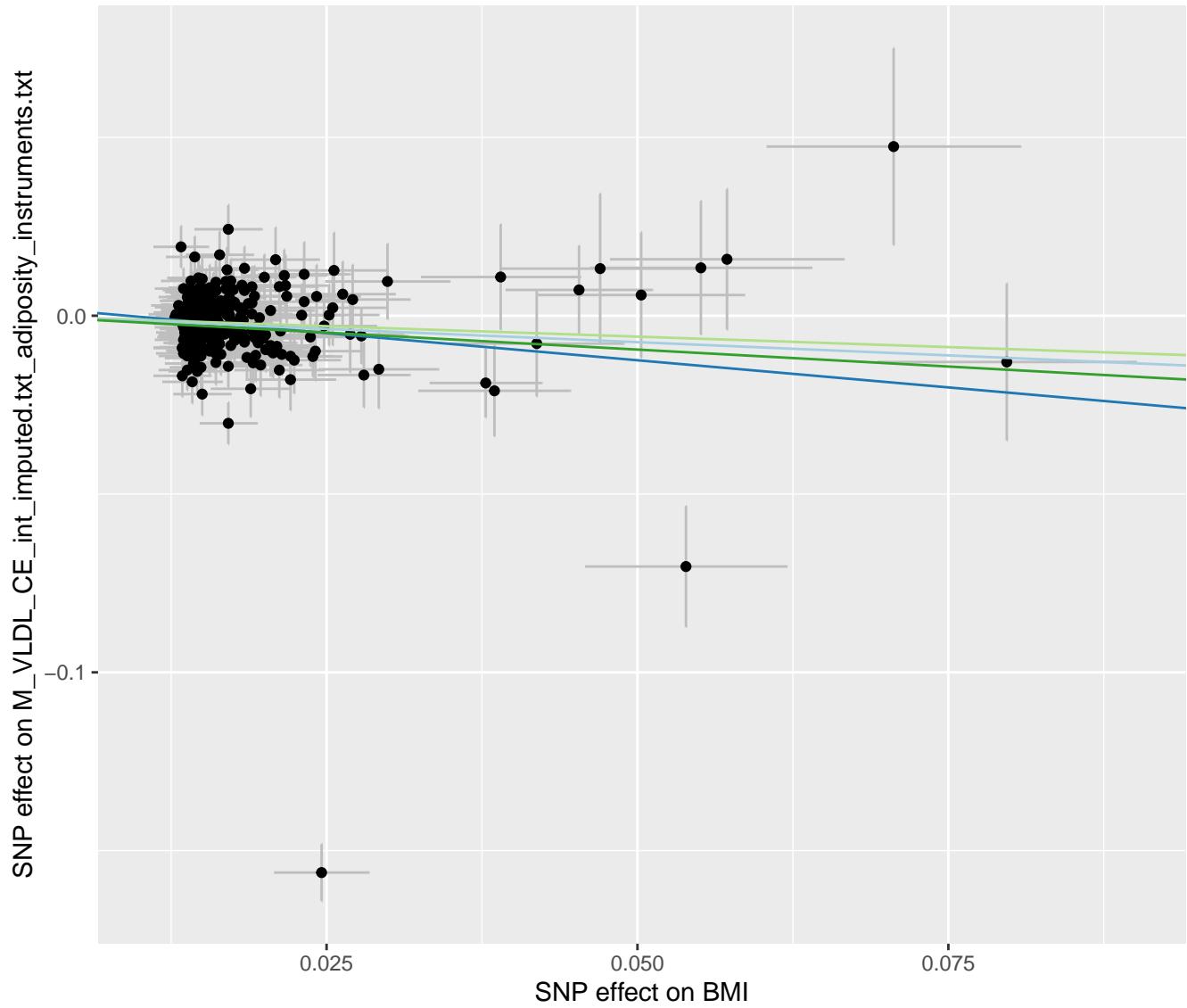
MR Egger



Weighted median



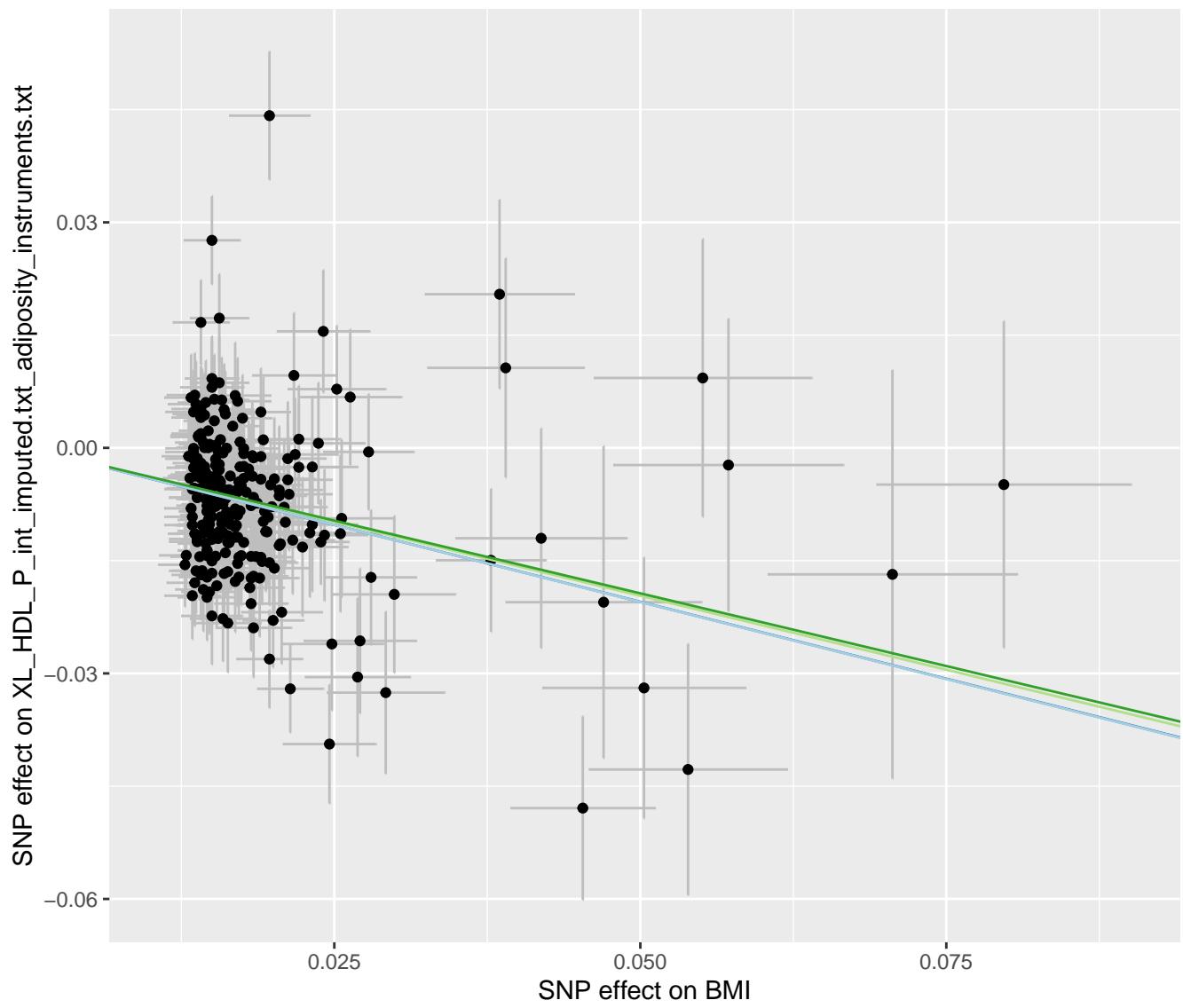
Weighted mode



# MR Test

Inverse variance weighted (multiplicative random effects)  
MR Egger

Weighted median  
Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

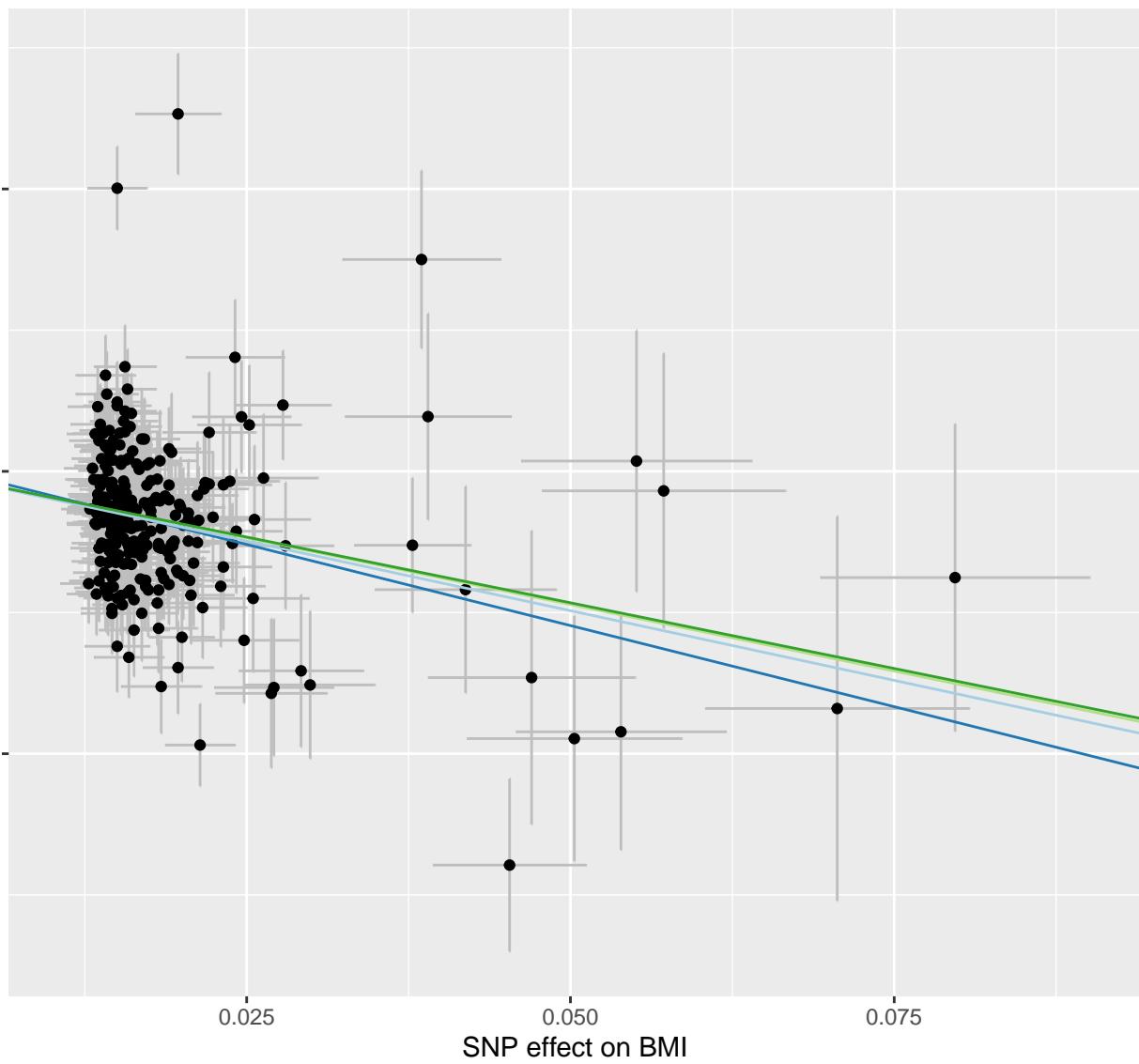


Weighted median



Weighted mode

SNP effect on L\_HDL\_C\_int\_imputed.txt\_adiposity\_instruments.txt



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



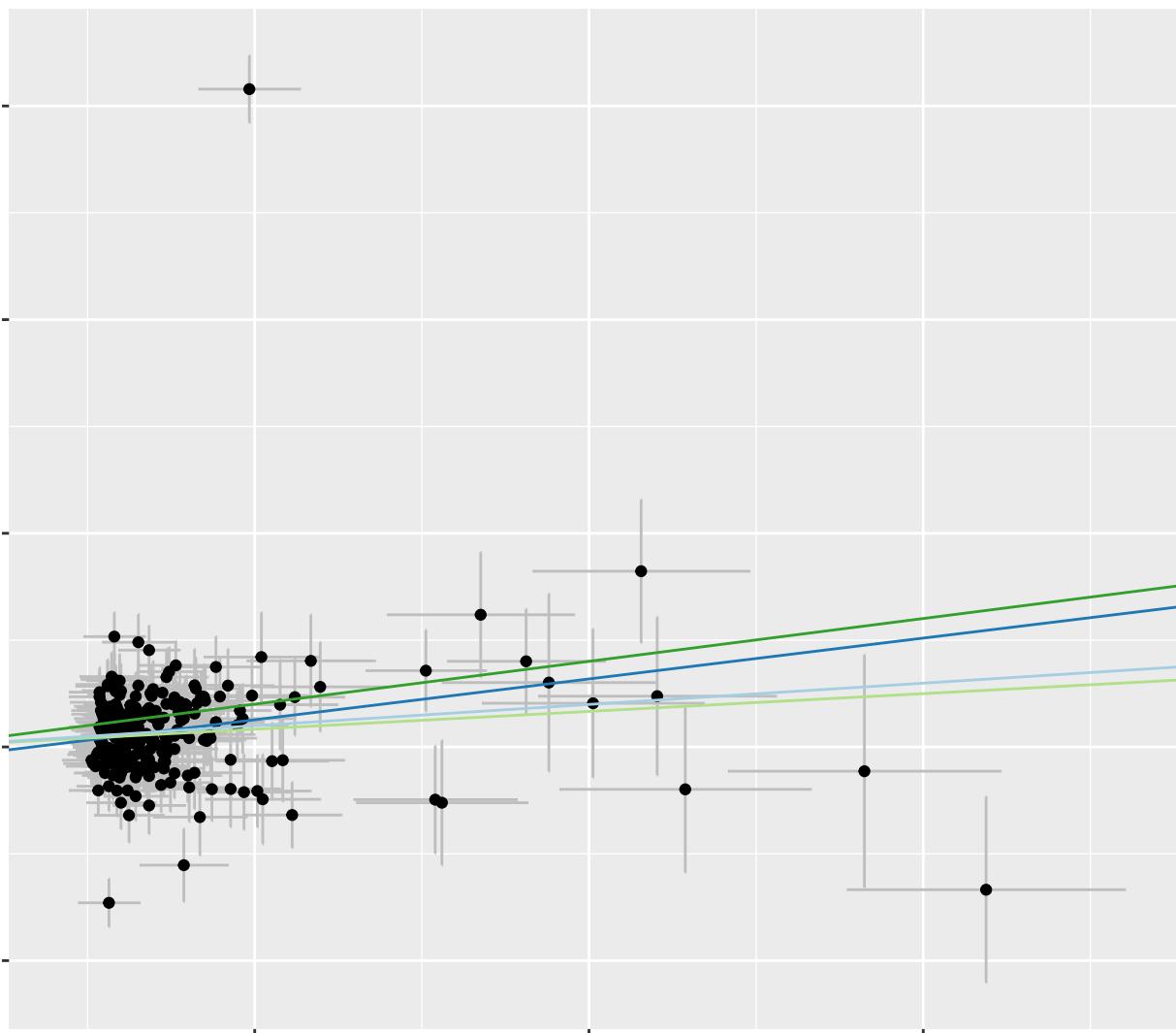
Weighted median



Weighted mode

SNP effect on S\_VLDL\_TG\_pct\_int\_imputed.txt\_adiposity\_instruments.txt

SNP effect on BMI



MR Test

10

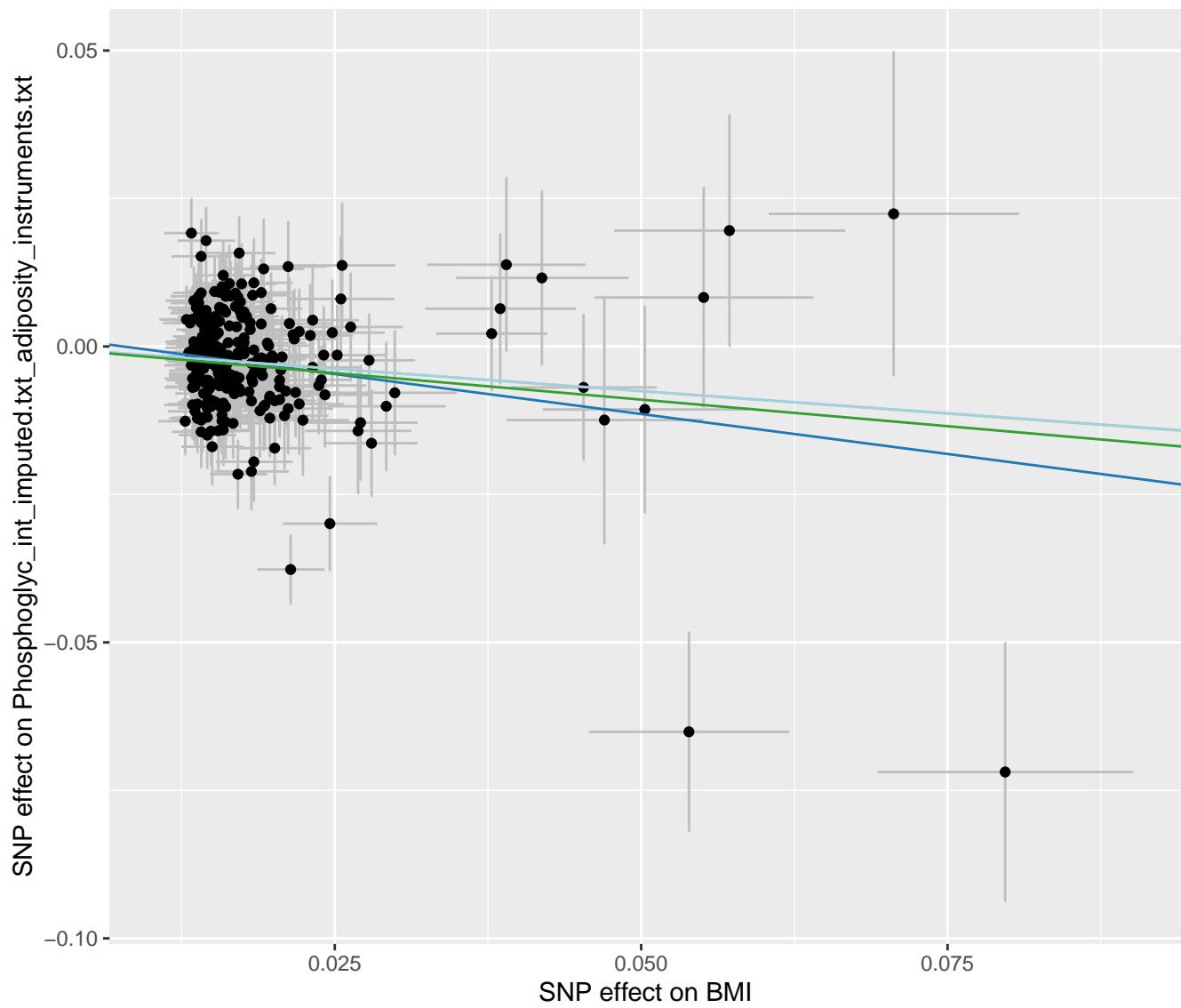
### Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



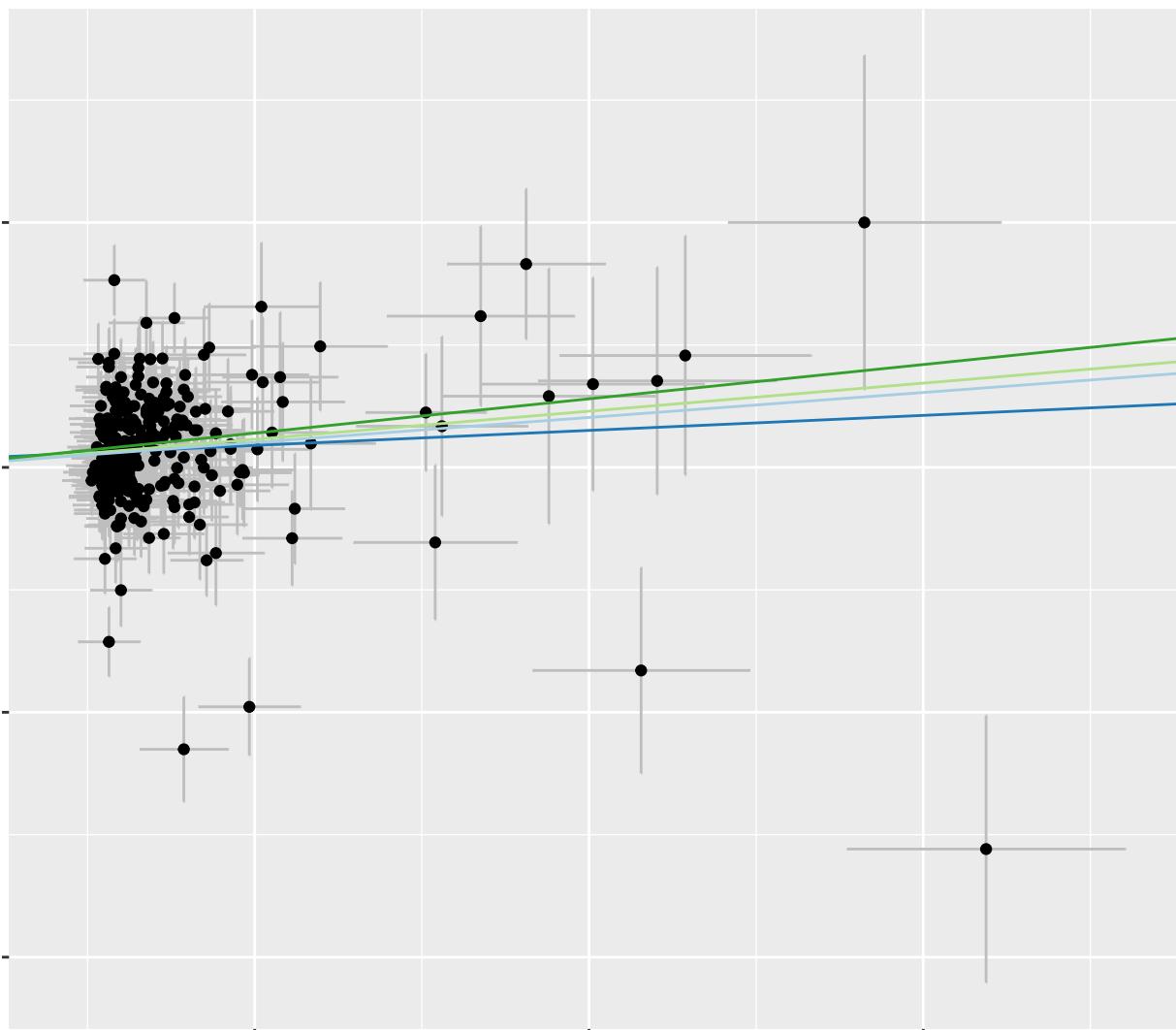
Weighted median



Weighted mode

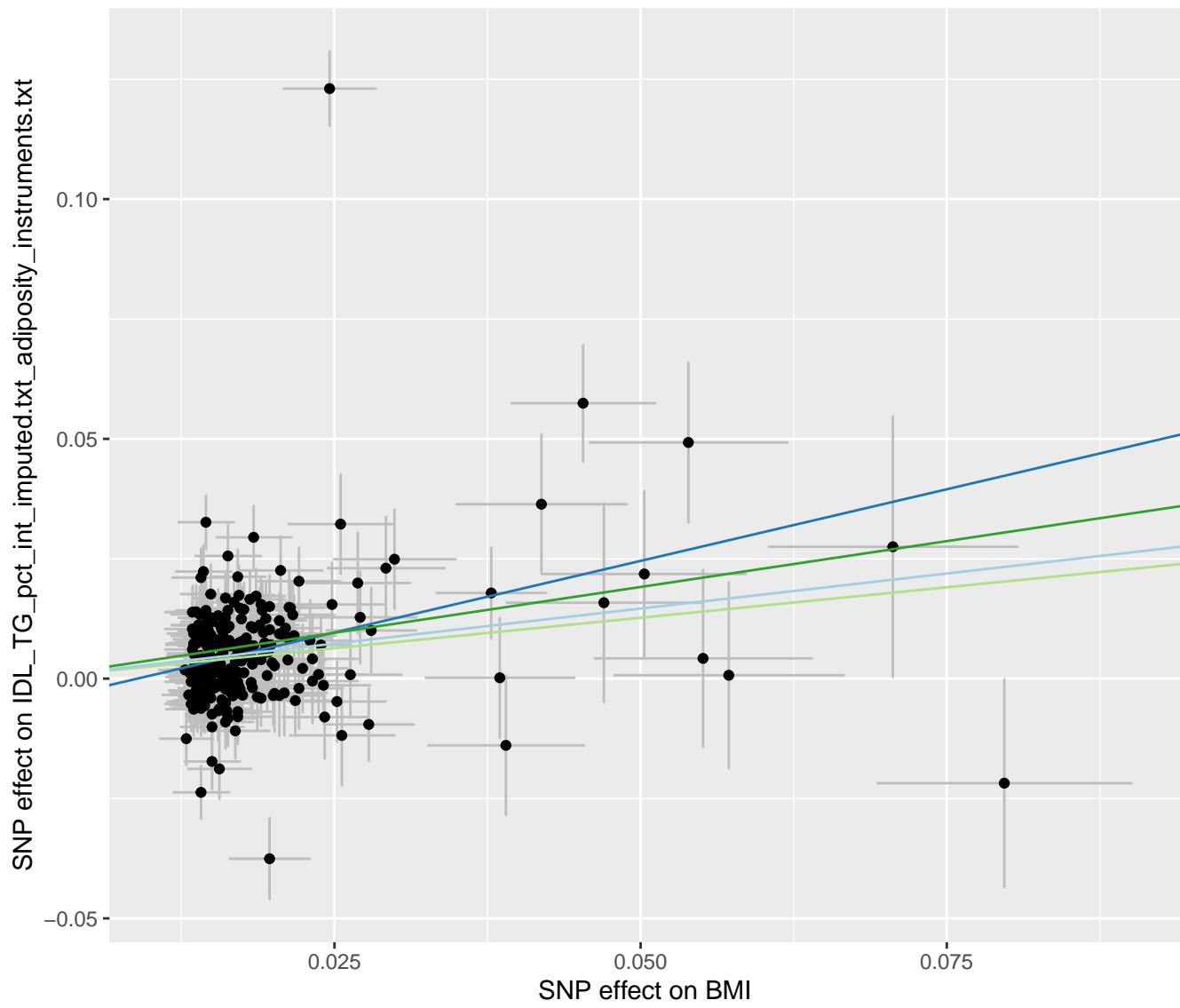
SNP effect on MUFA\_int\_imputed.txt\_adiposity\_instruments.txt

SNP effect on BMI



### MR Test

 Inverse variance weighted (multiplicative random effects)  
 MR Egger  
 Weighted median  
 Weighted mode



MR Test

A blue line that slopes upwards from left to right.

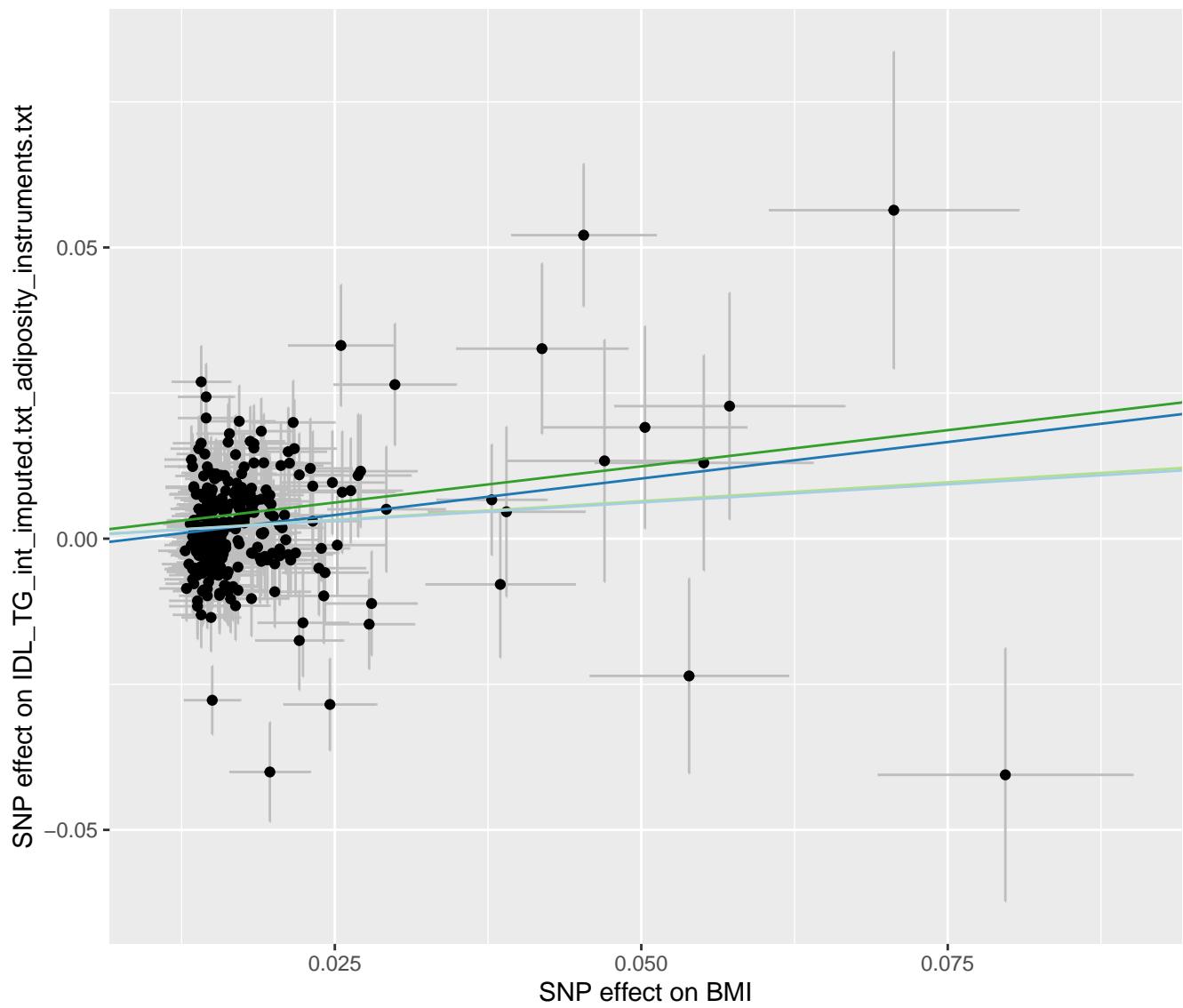
Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



MR Test

A blue diagonal bar extending from the top right towards the bottom left.

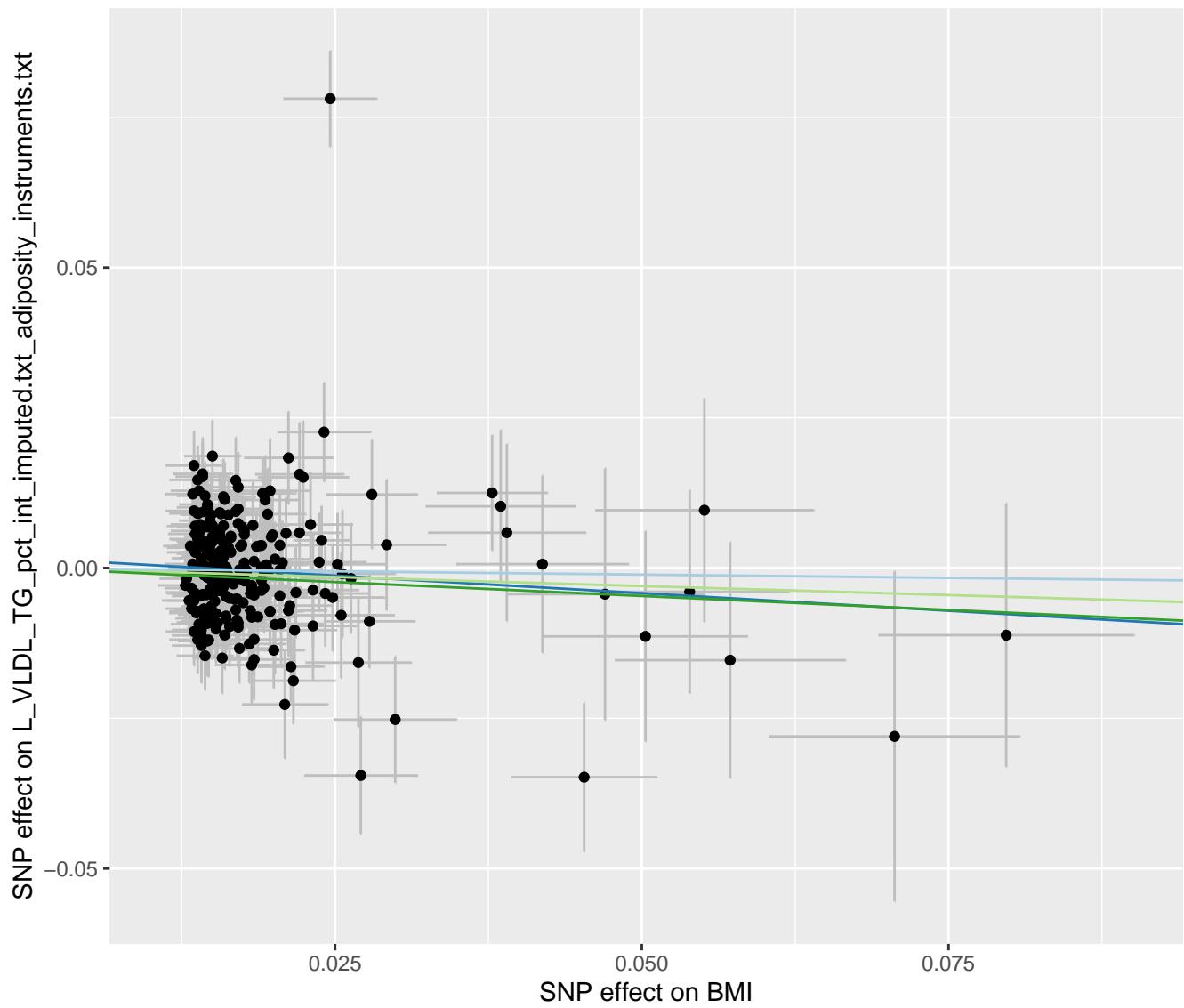
Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



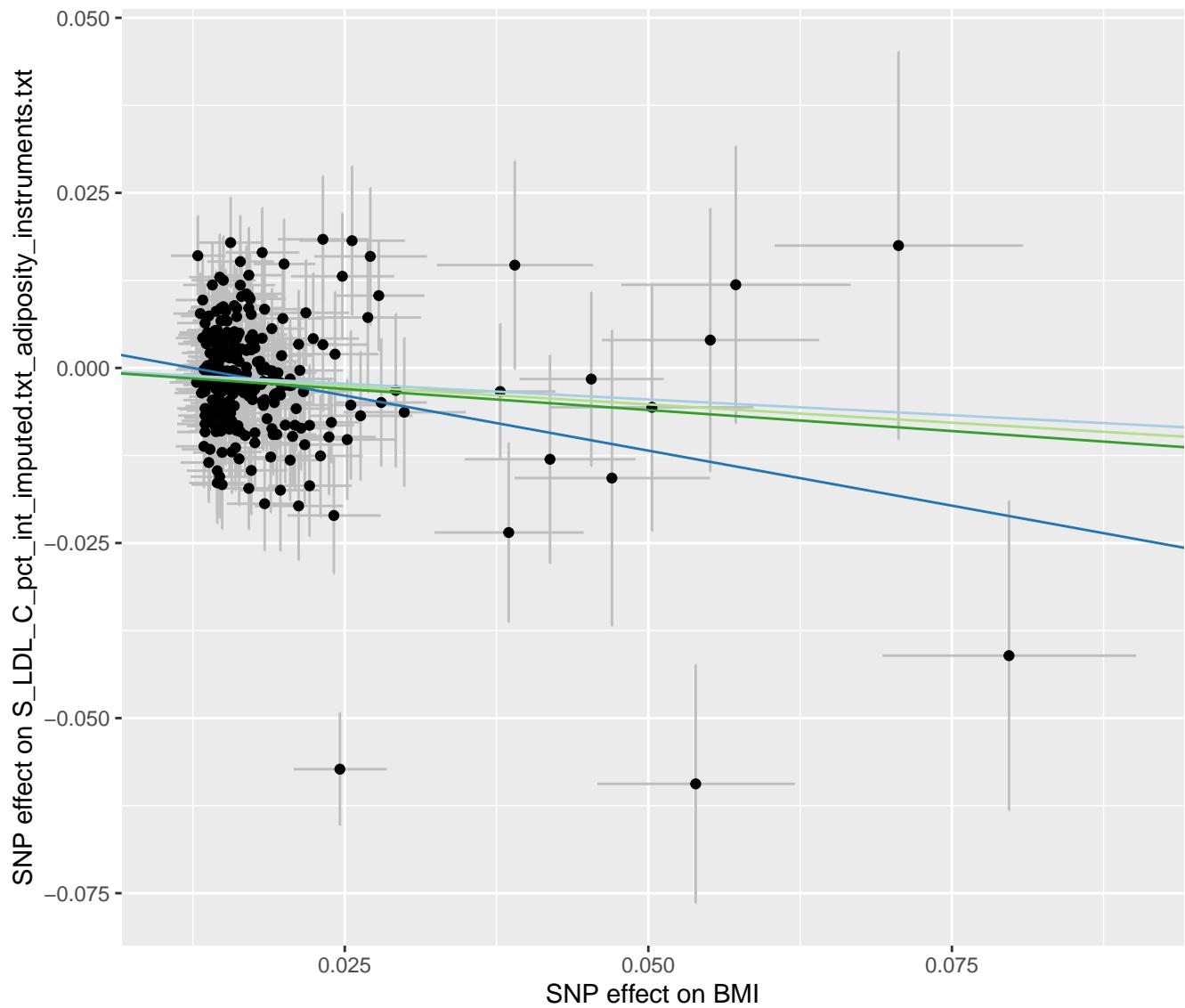
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



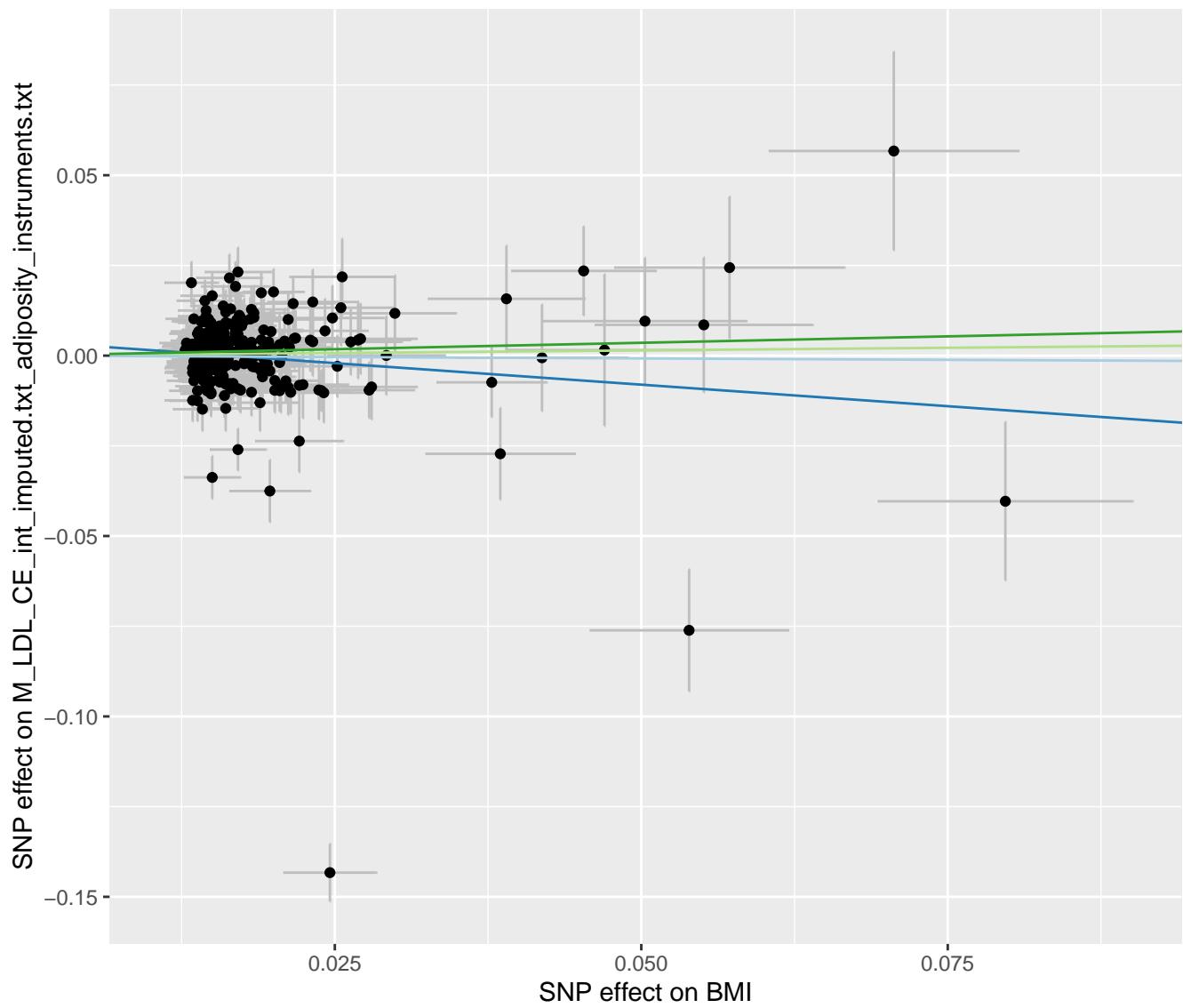
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

SNP effect on Lactate\_int\_imputed.txt\_adiposity\_instruments.txt

0.025

SNP effect on BMI

0.075

# MR Test



Inverse variance weighted (multiplicative random effects)



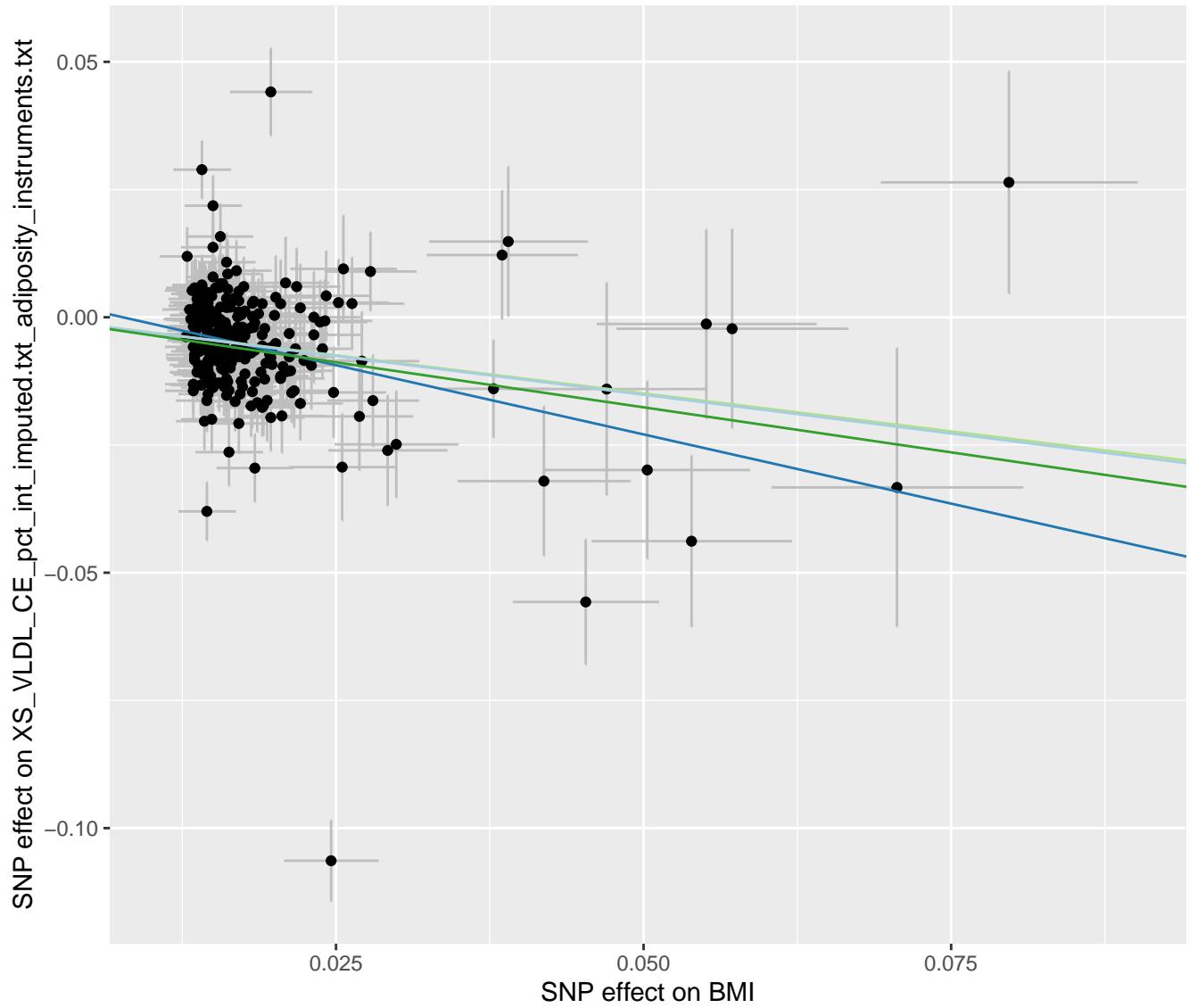
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



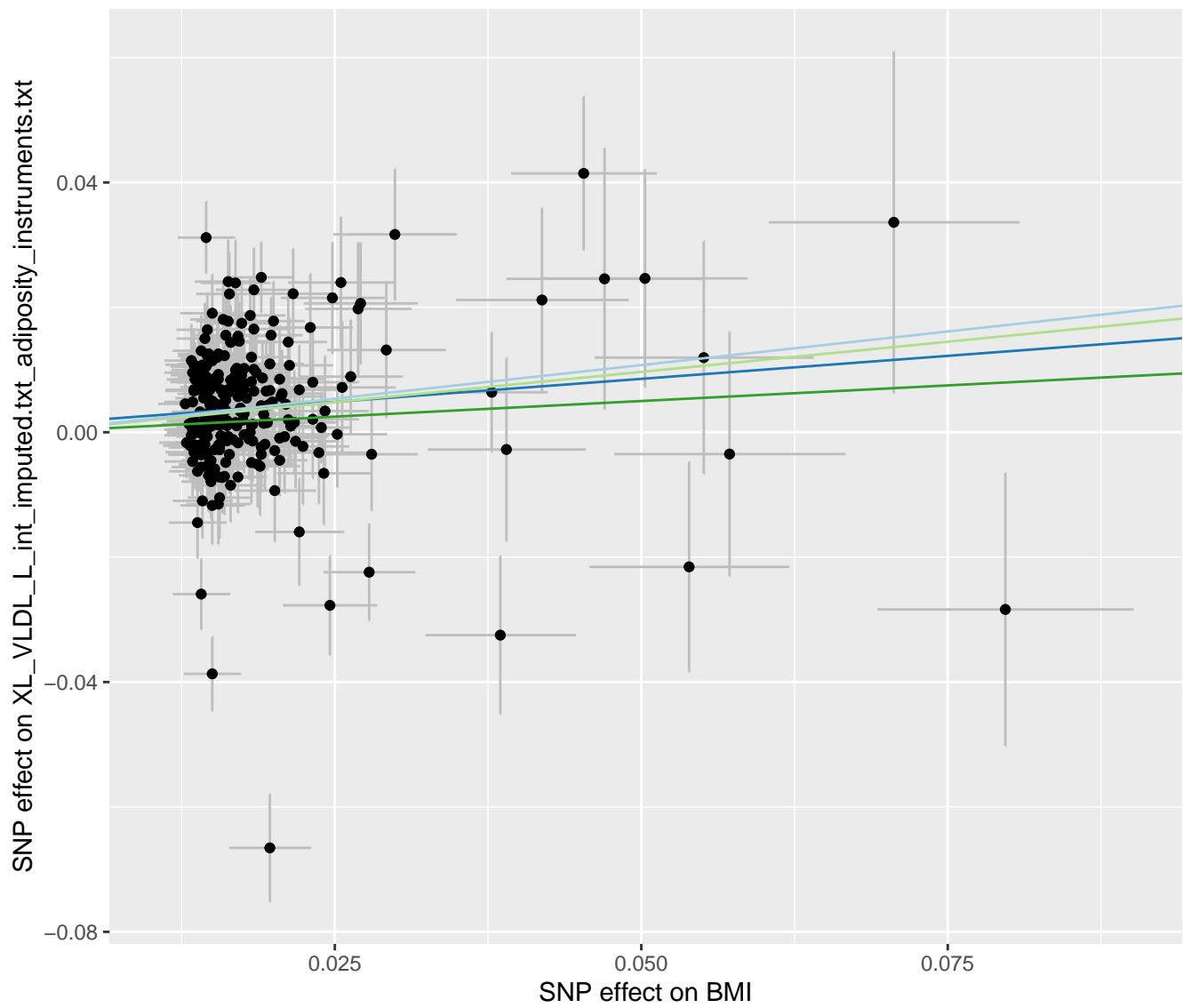
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

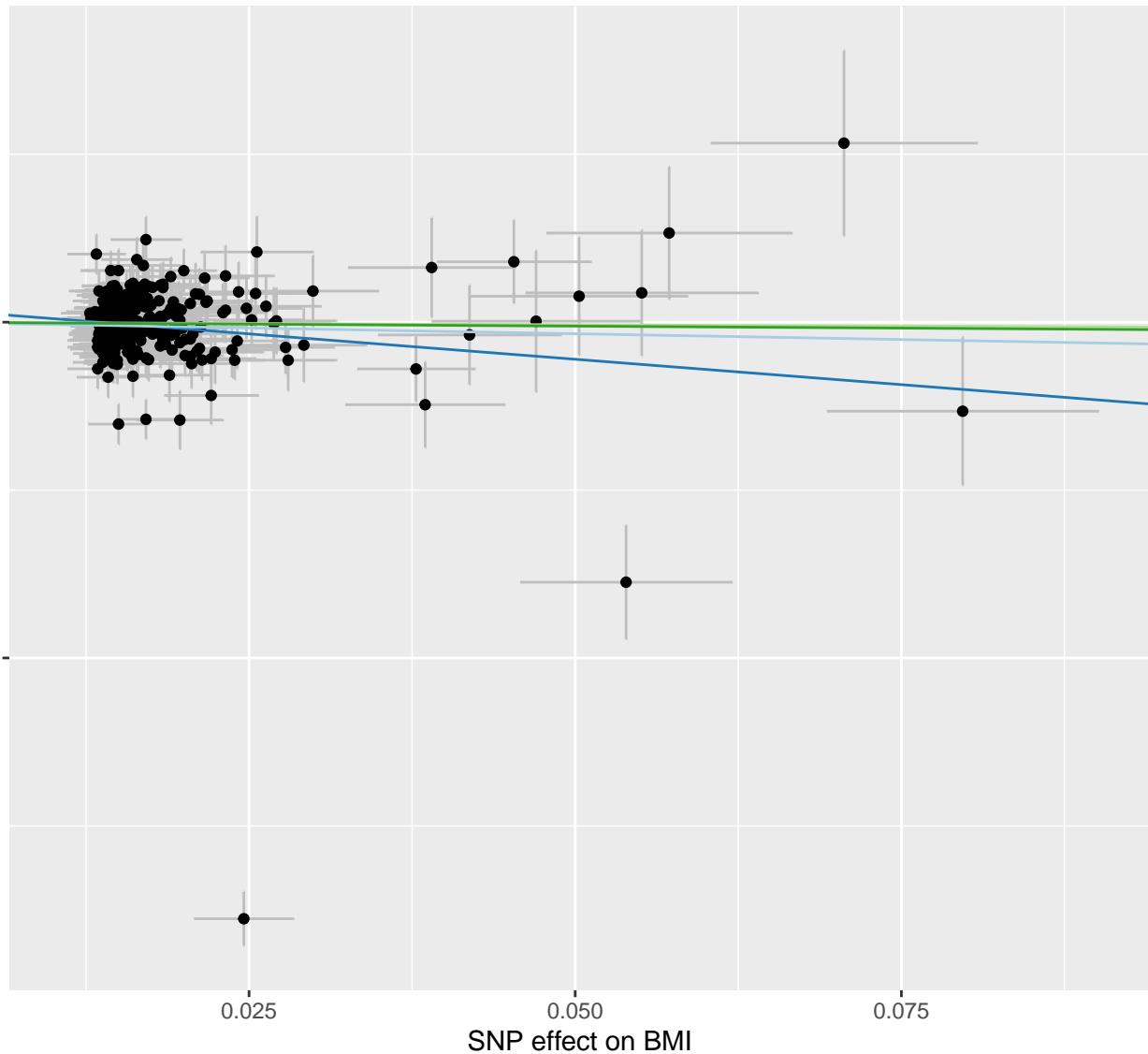


Weighted median



Weighted mode

SNP effect on S\_LDL\_C\_int\_imputed.txt\_adiposity\_instruments.txt



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

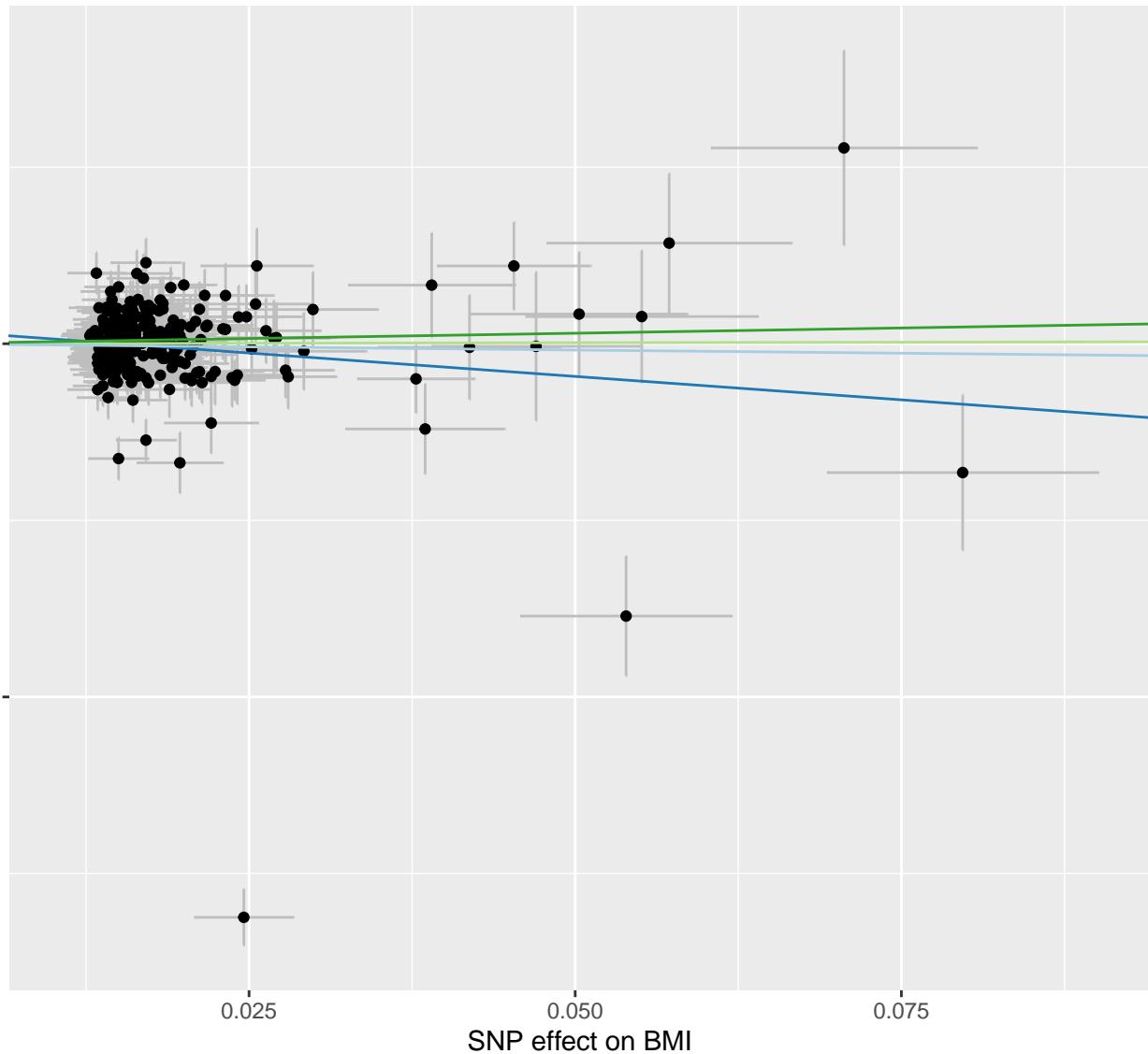


Weighted median



Weighted mode

SNP effect on M\_LDL\_L\_int\_imputed.txt\_adiposity\_instruments.txt



MR Test

A blue line that slopes upwards from left to right, positioned in the bottom right corner of the page.

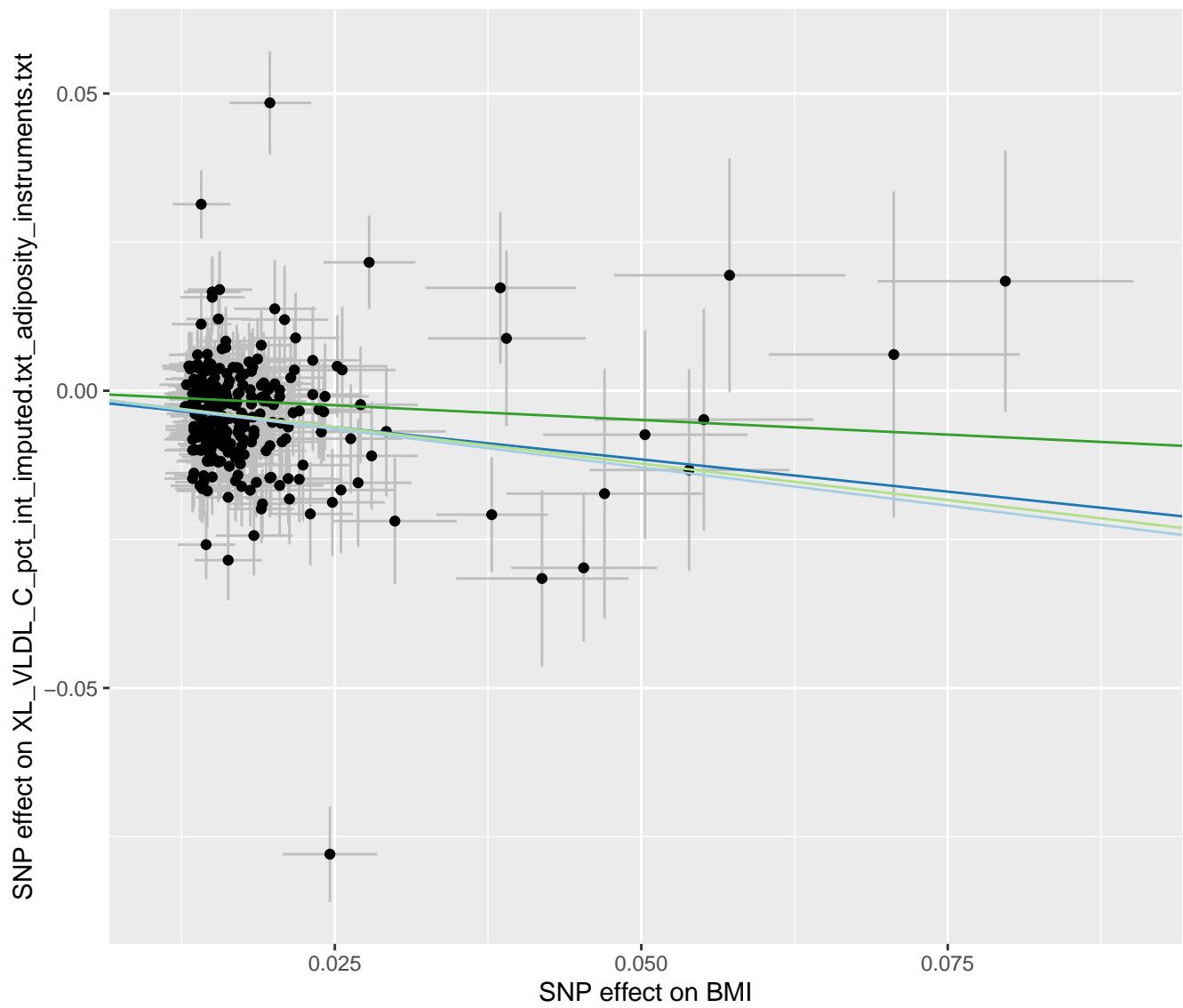
### Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



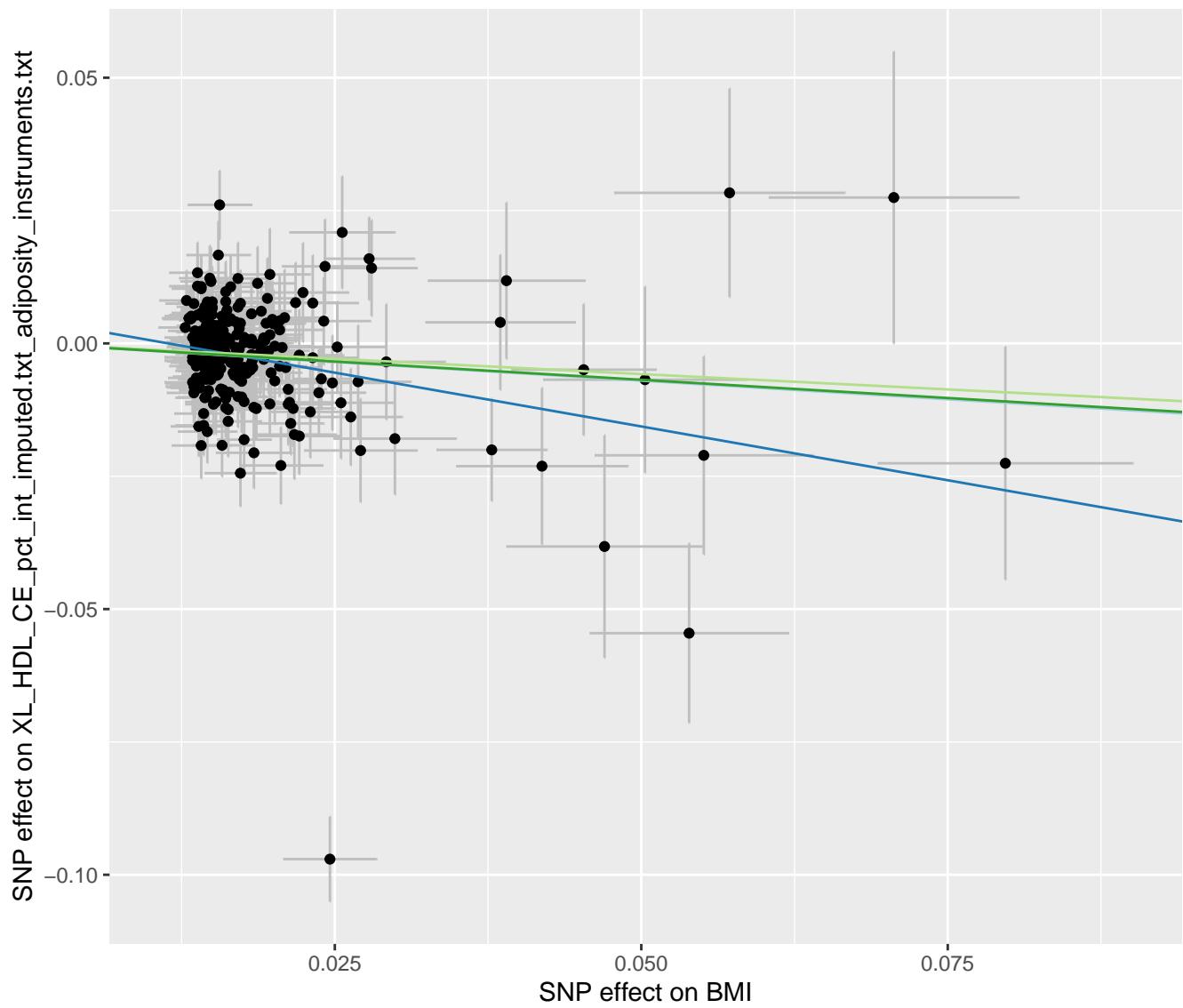
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



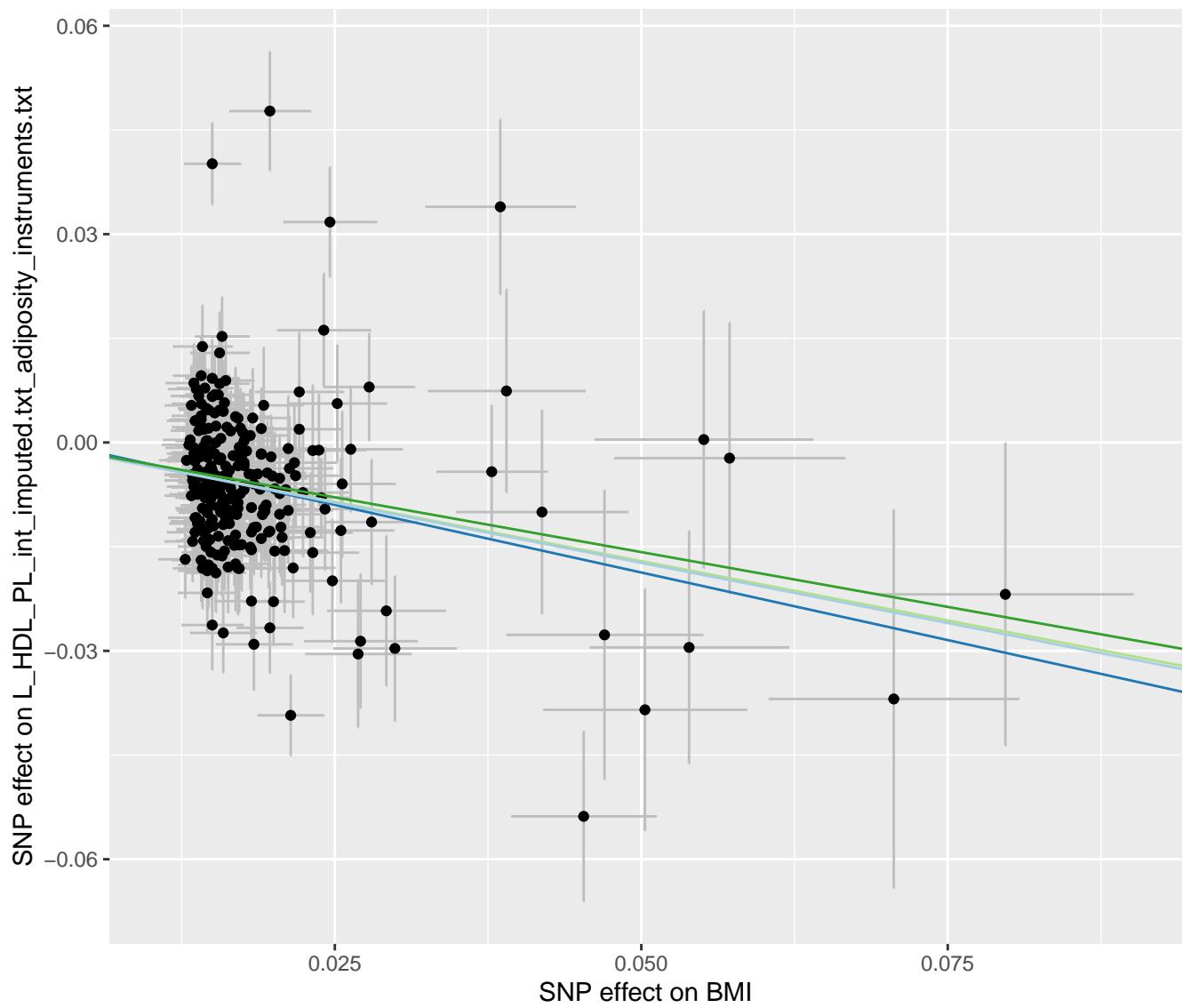
MR Egger



Weighted median



Weighted mode



MR Test

A blue line that slopes upwards from left to right.

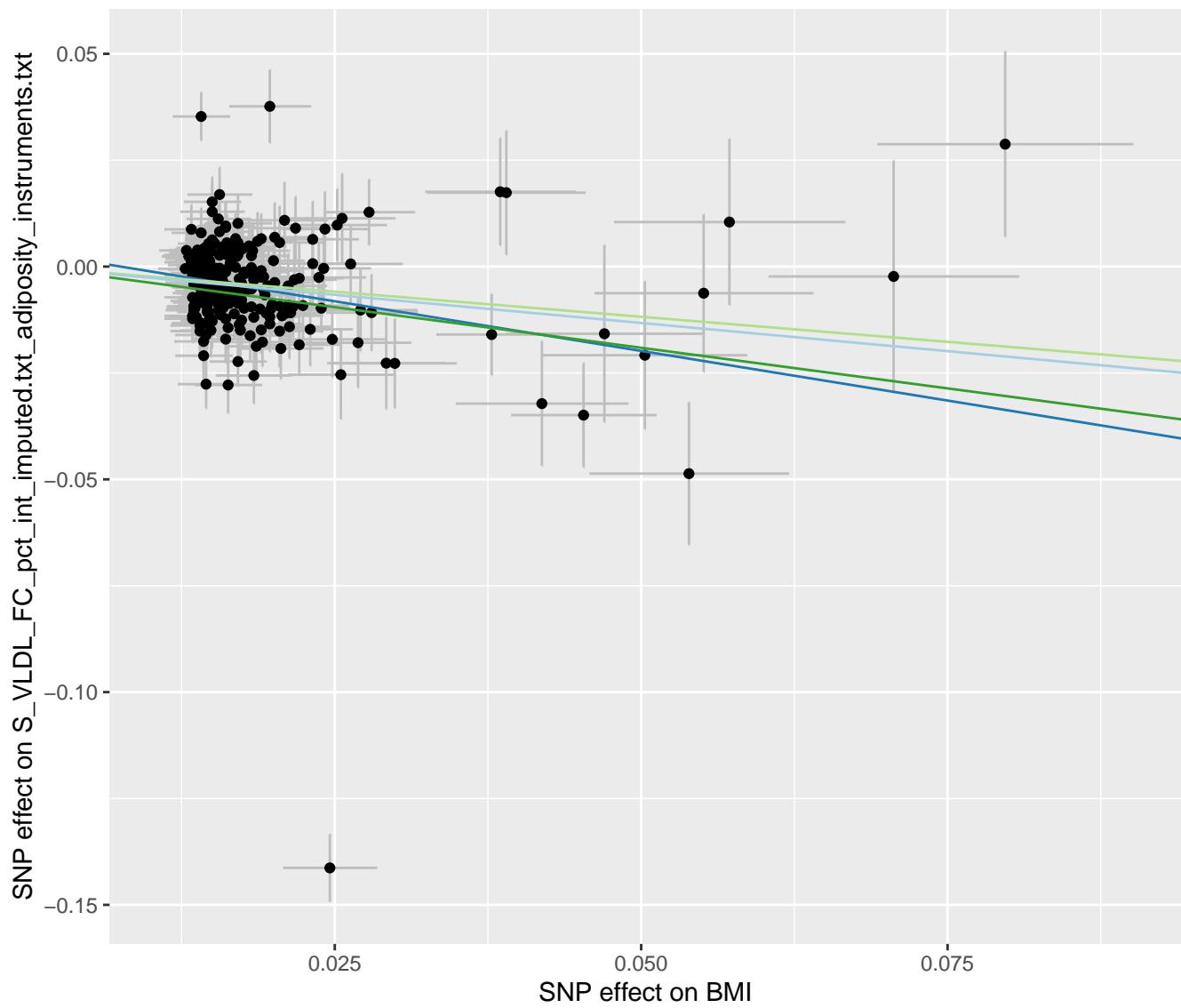
Inverse variance weighted (multiplicative random effects)

MR Egger

100

## Weighted median

## Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



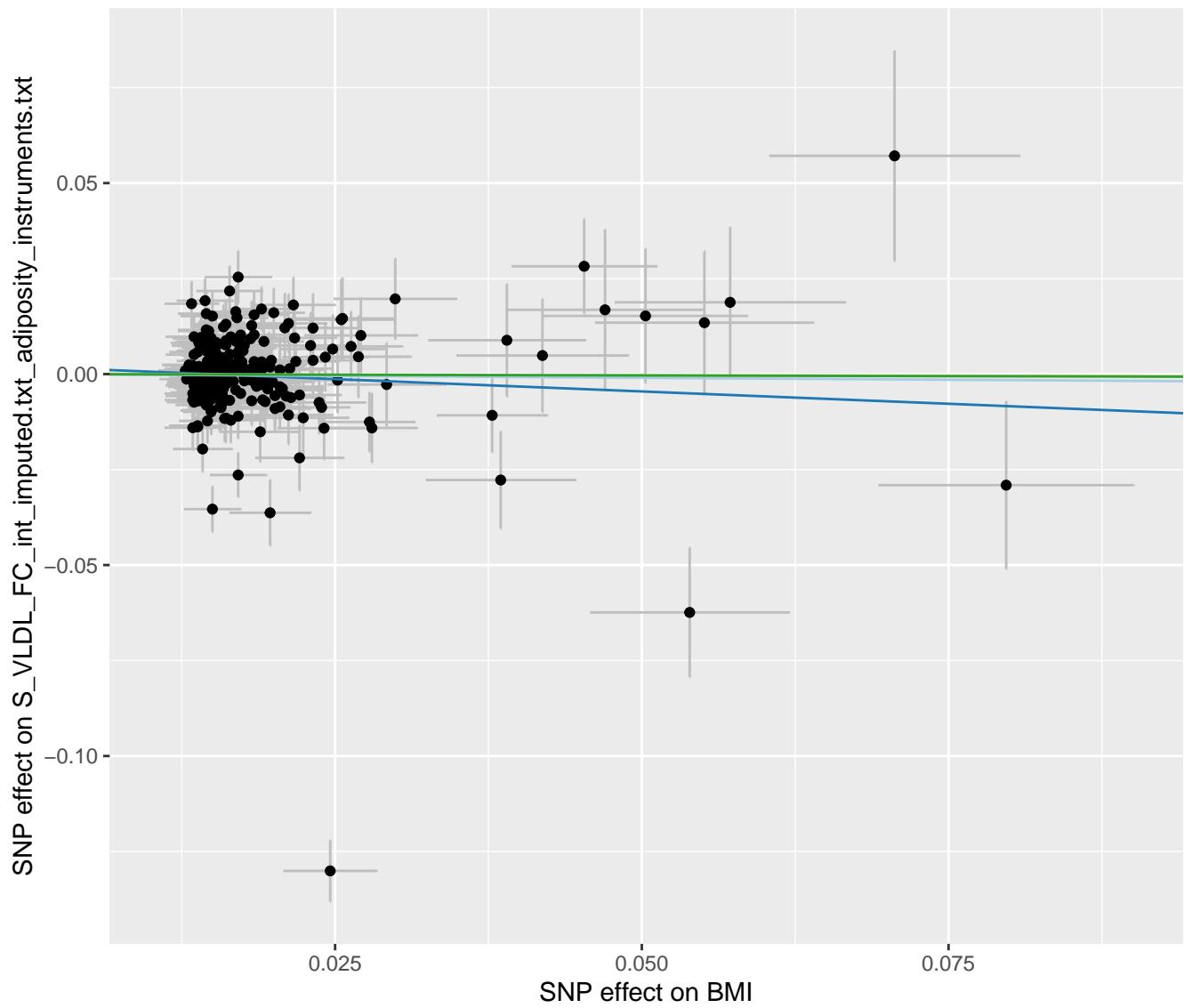
MR Egger



Weighted median



Weighted mode



MR Test

10

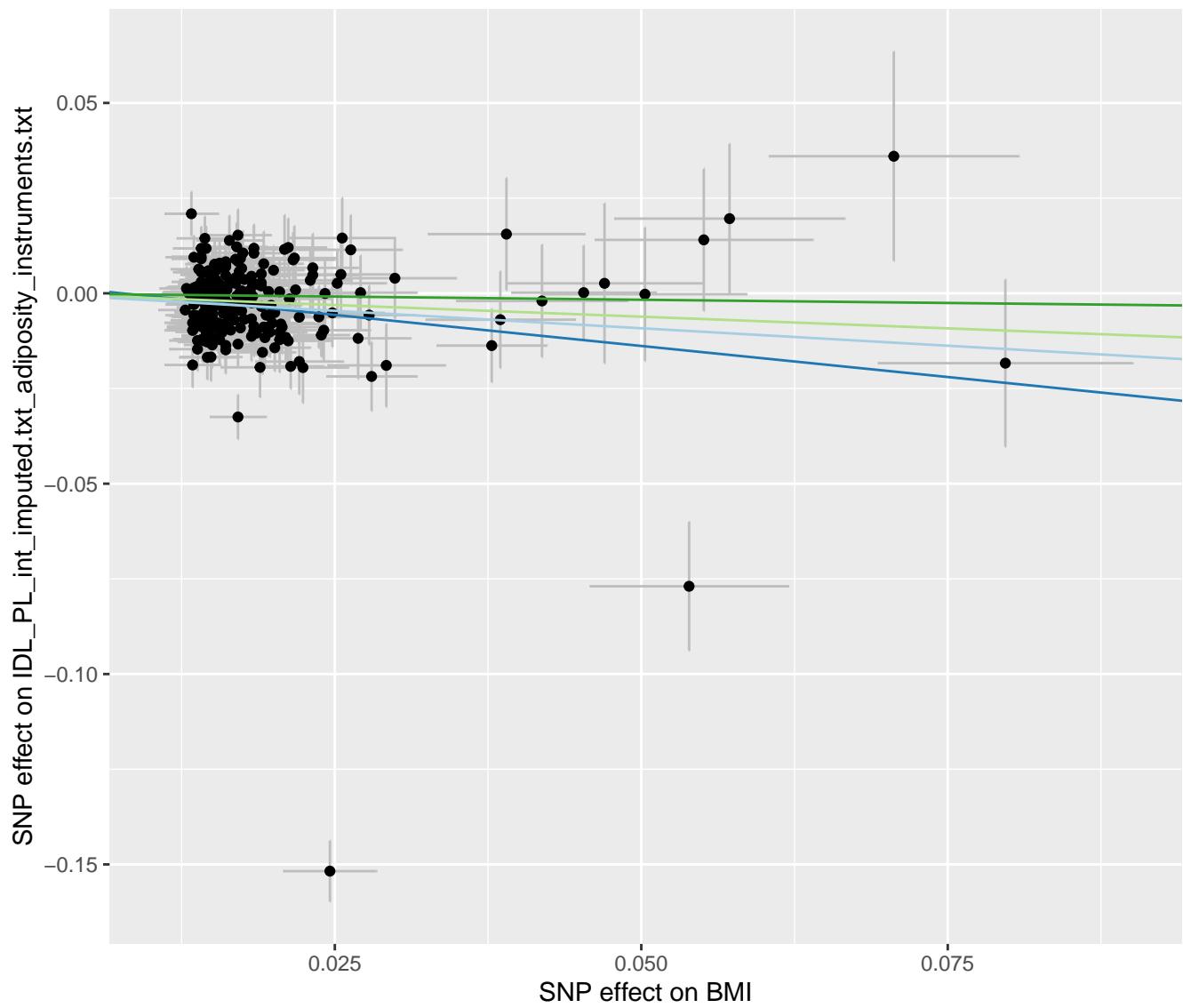
### Inverse variance weighted (multiplicative random effects)

MR Egger

10 of 10

## Weighted median

## Weighted mode



## MR Test

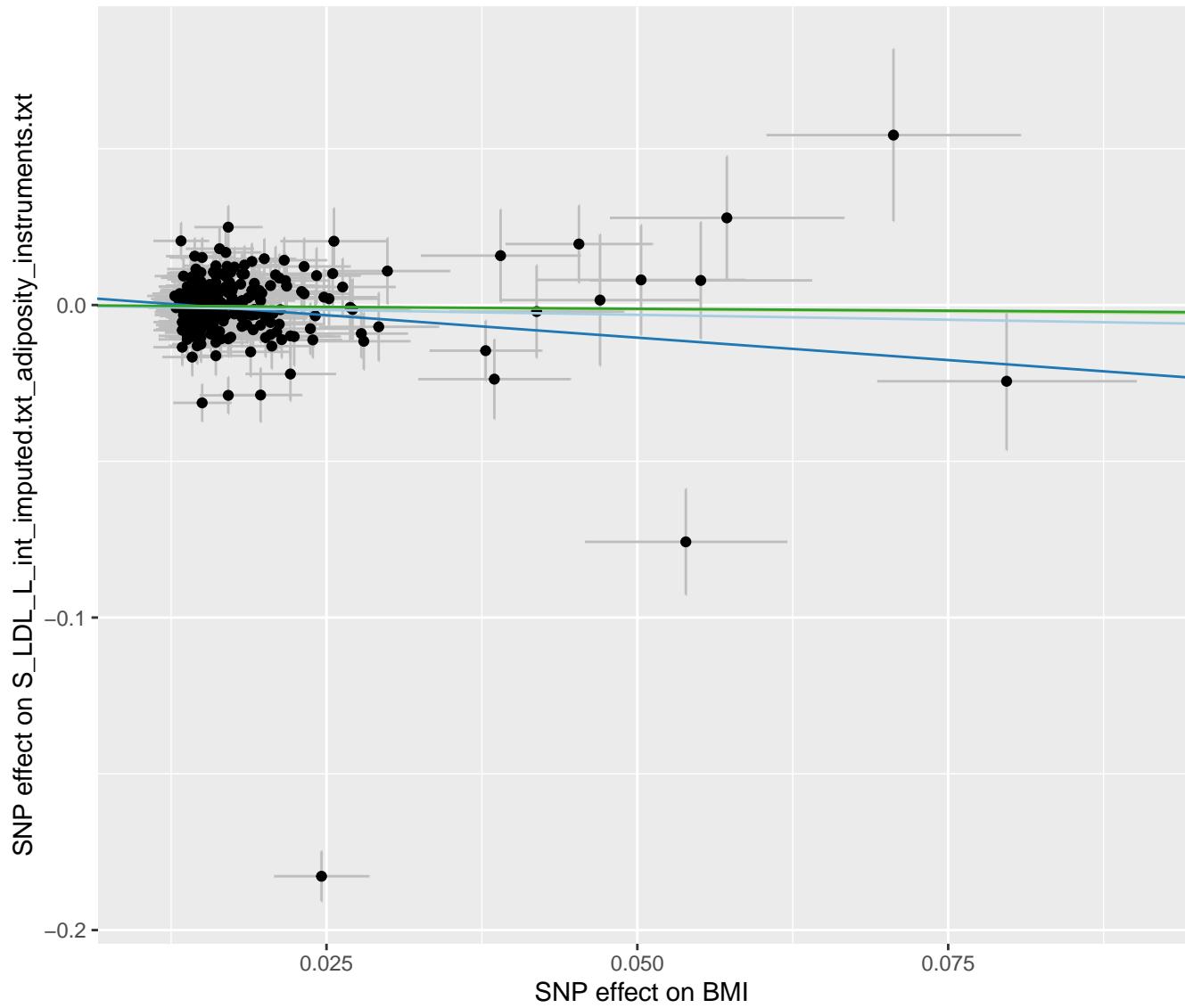
### Inverse variance weighted (multiplicative random effects)

MR Egger

A short, thick green line segment extending from the bottom-left towards the top-right.

## Weighted median

## Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



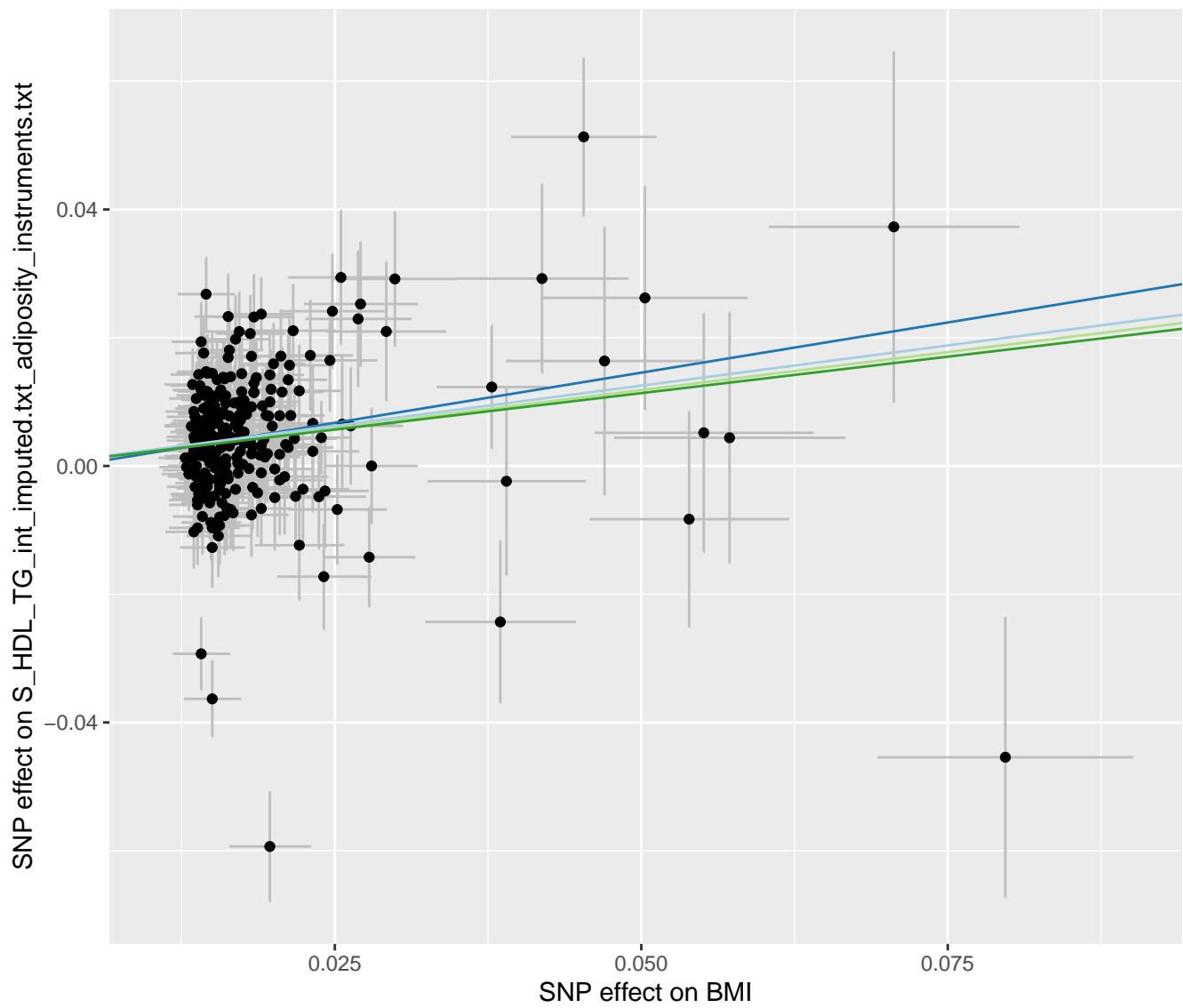
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



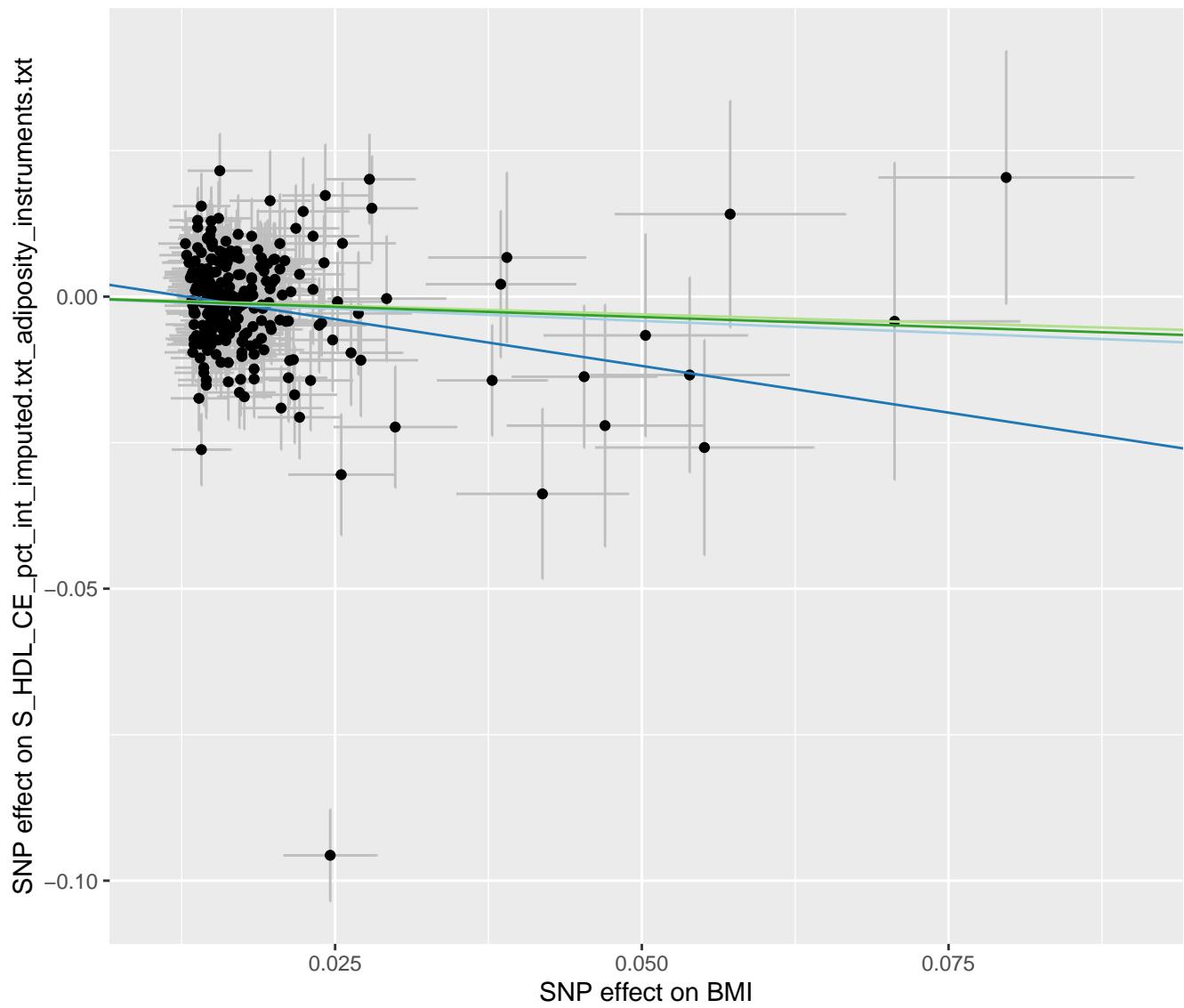
MR Egger



Weighted median



Weighted mode



### MR Test



Inverse variance weighted (multiplicative random effects)



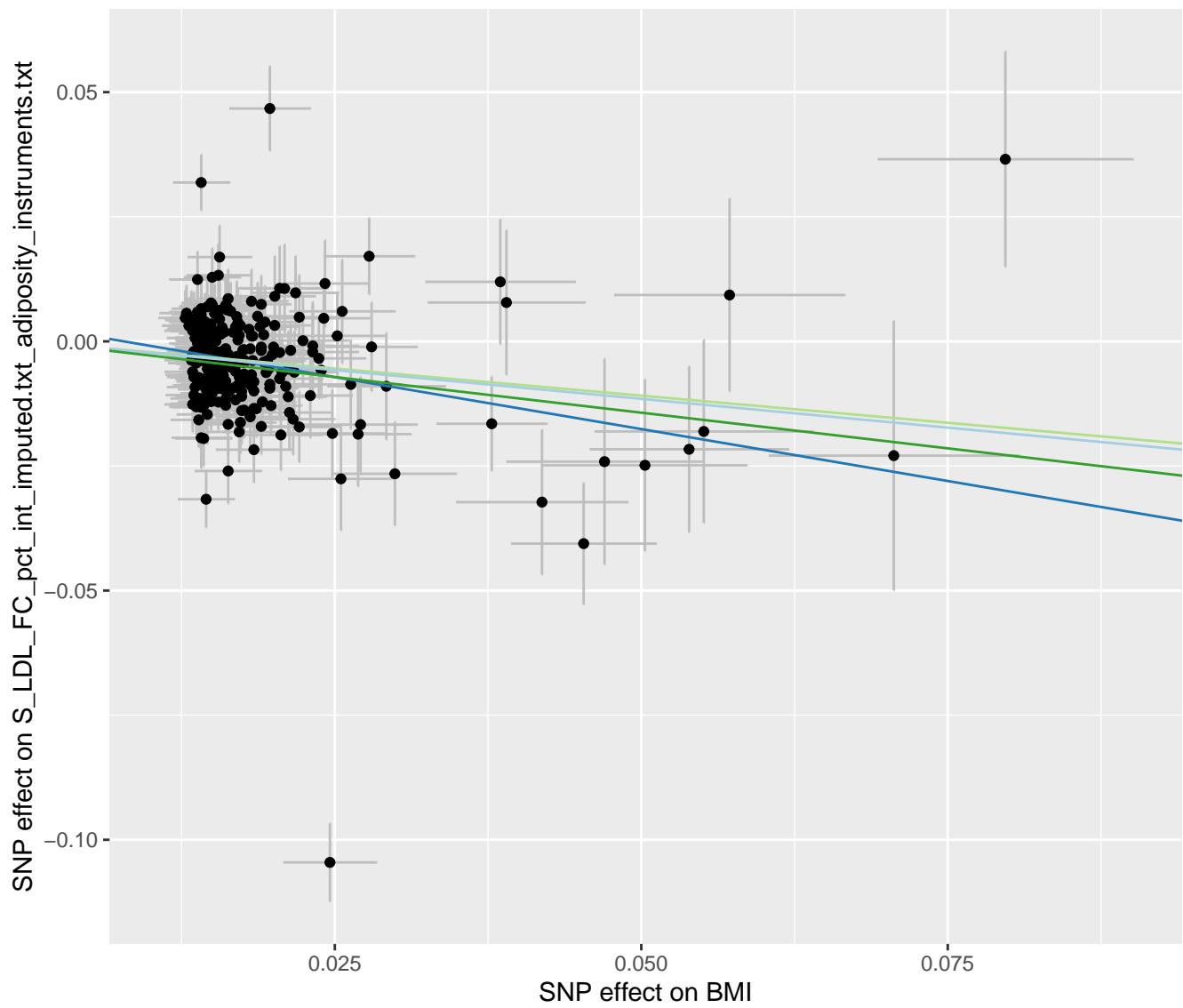
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



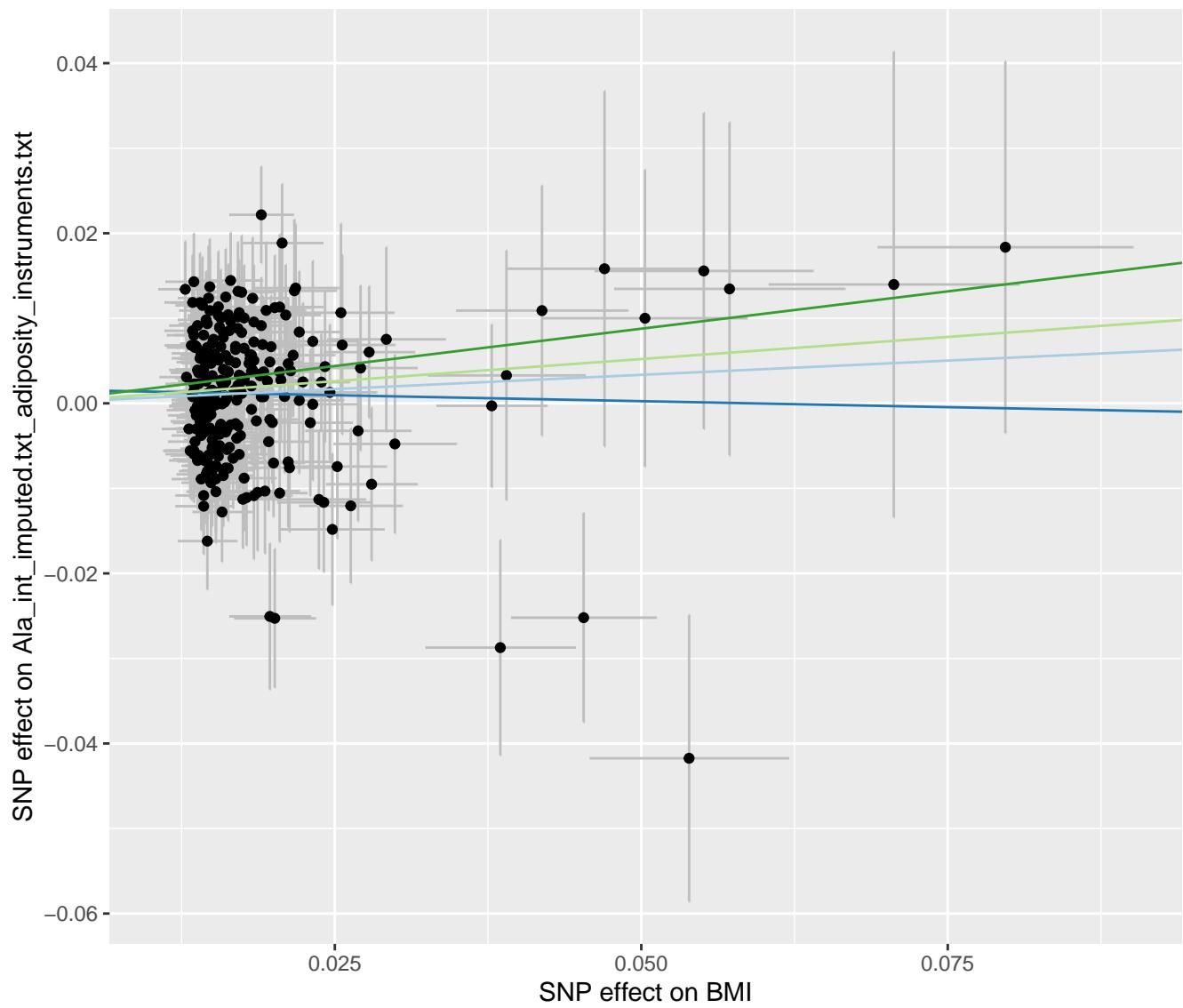
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



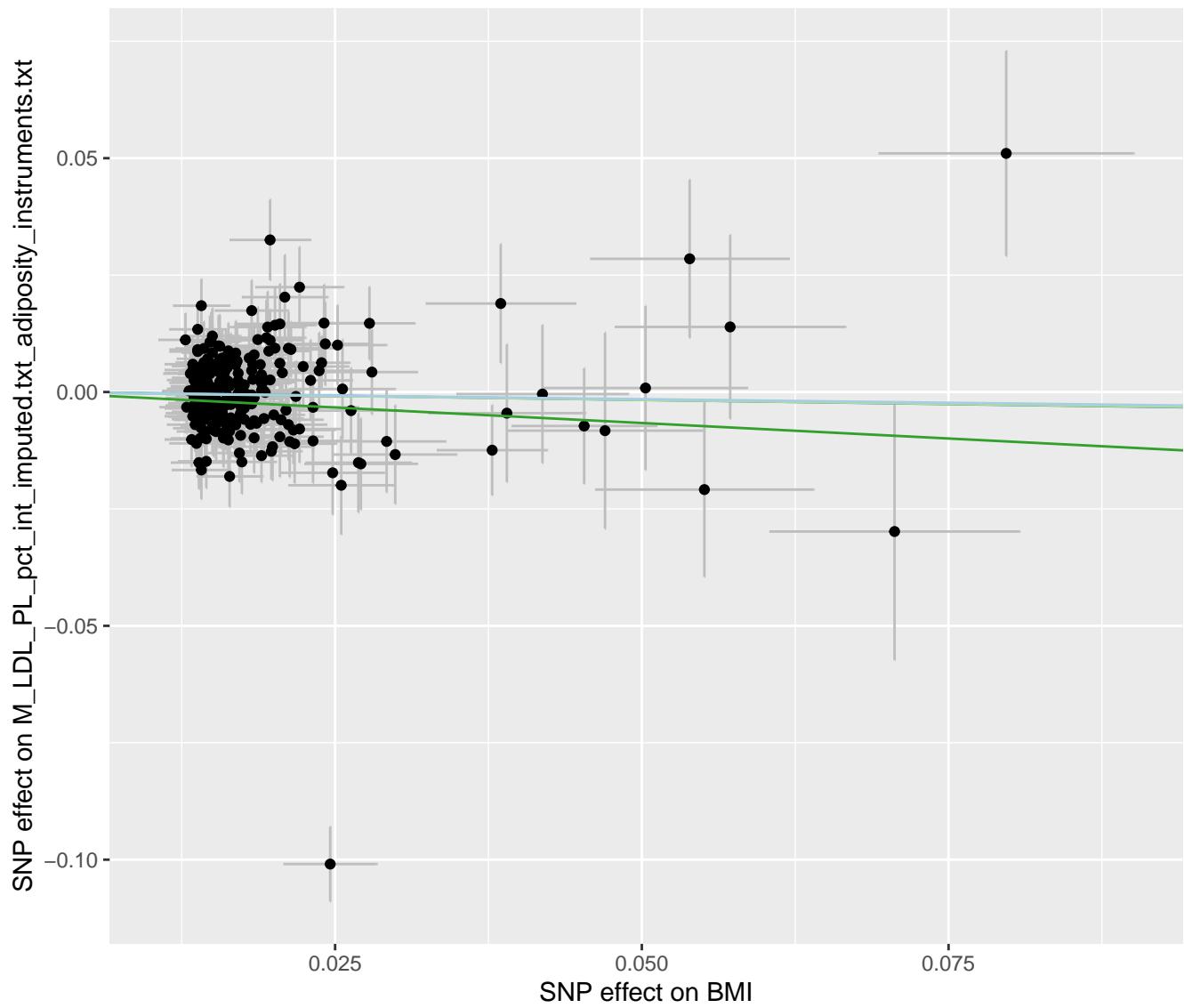
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)

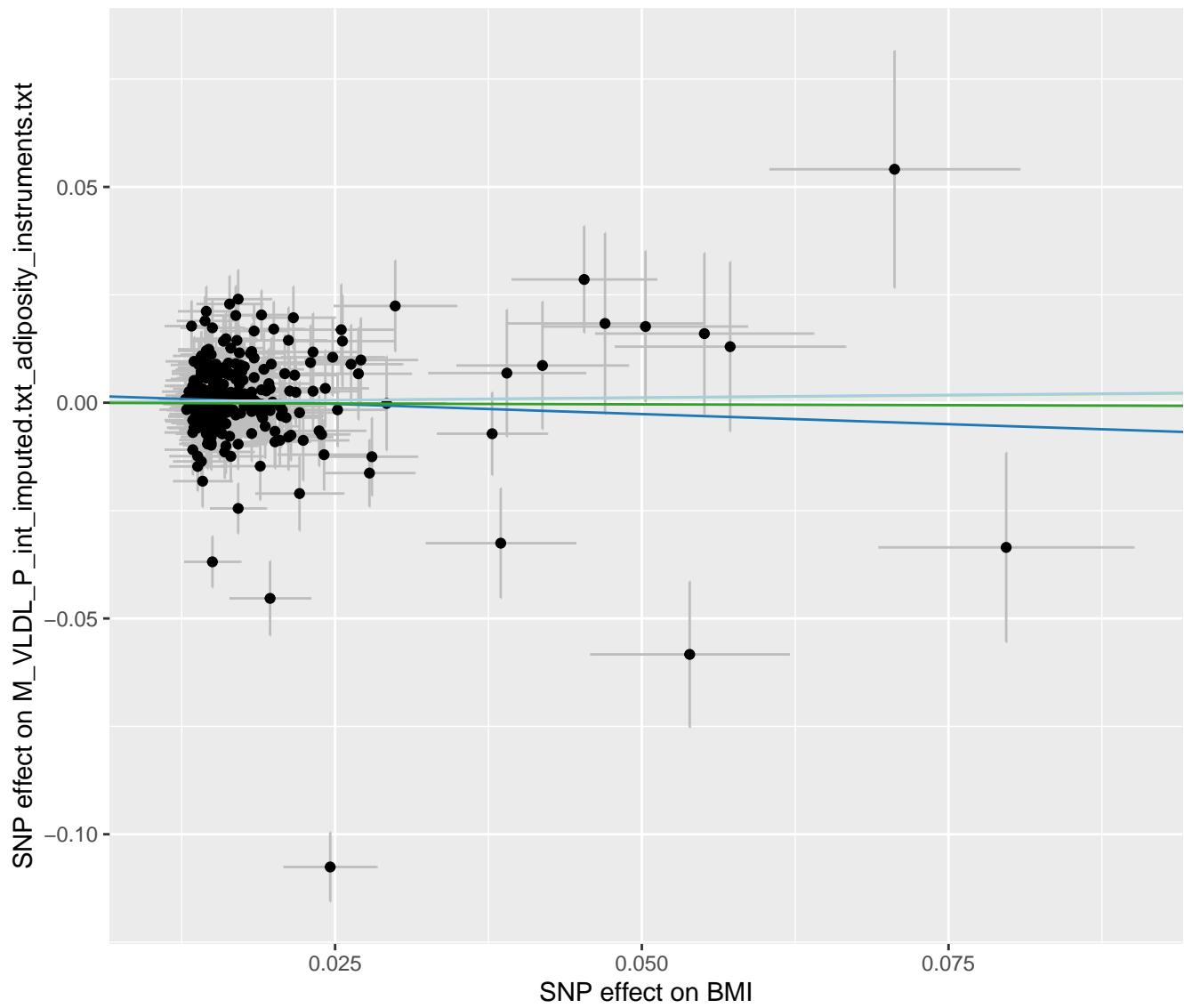
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

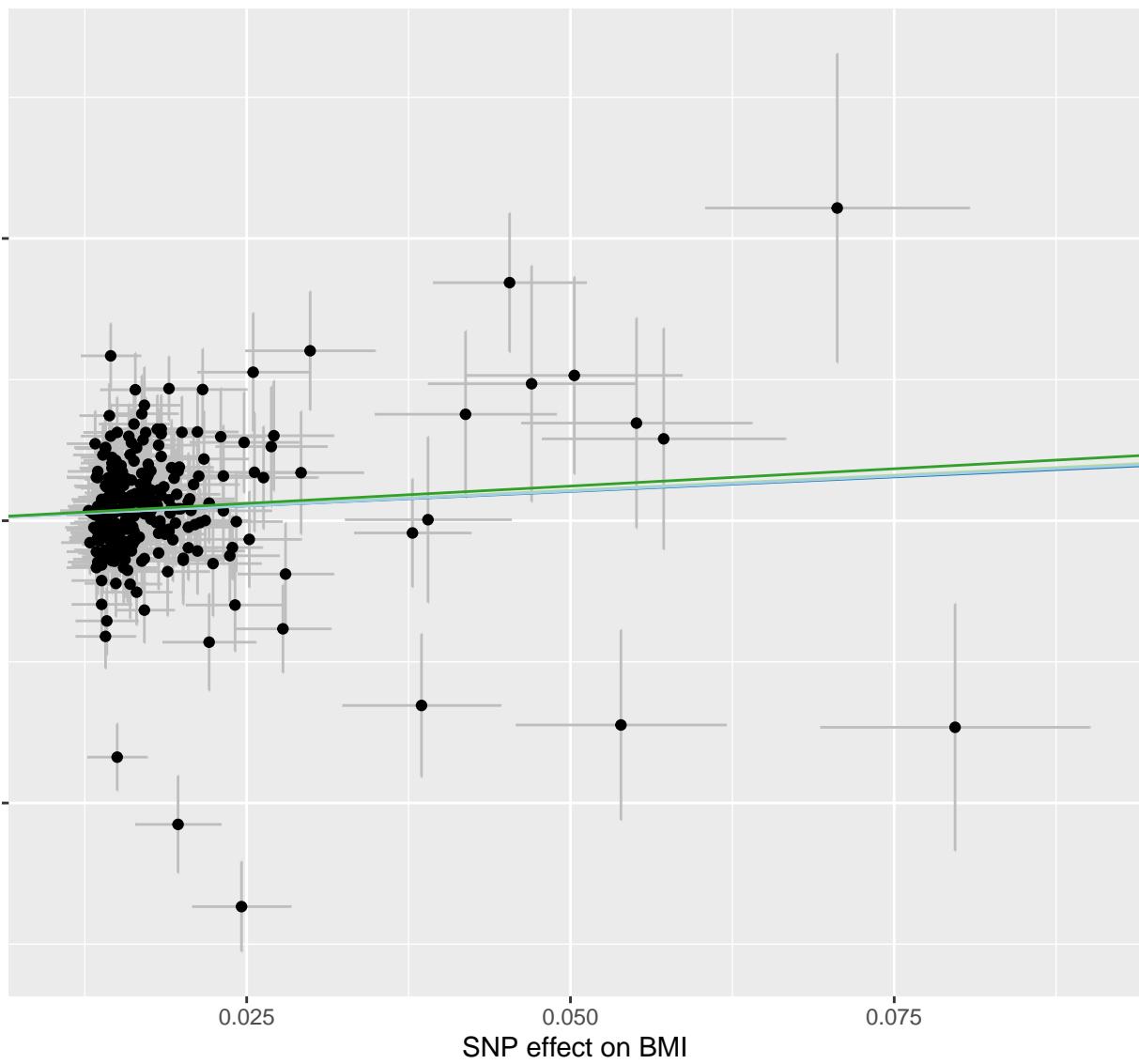


Weighted median



Weighted mode

SNP effect on S\_VLDL\_P\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test



Inverse variance weighted (multiplicative random effects)

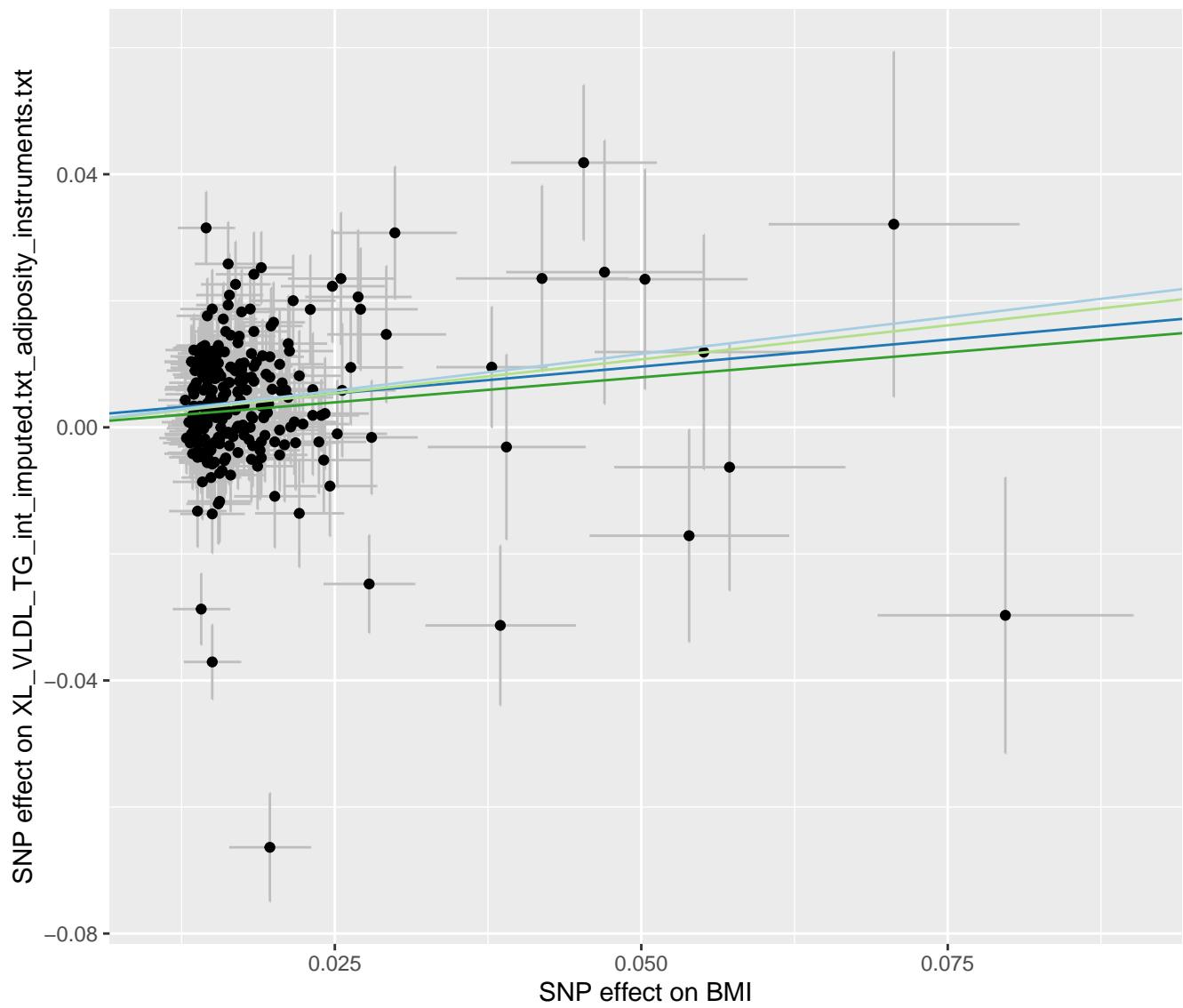
MR Egger



Weighted median



Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

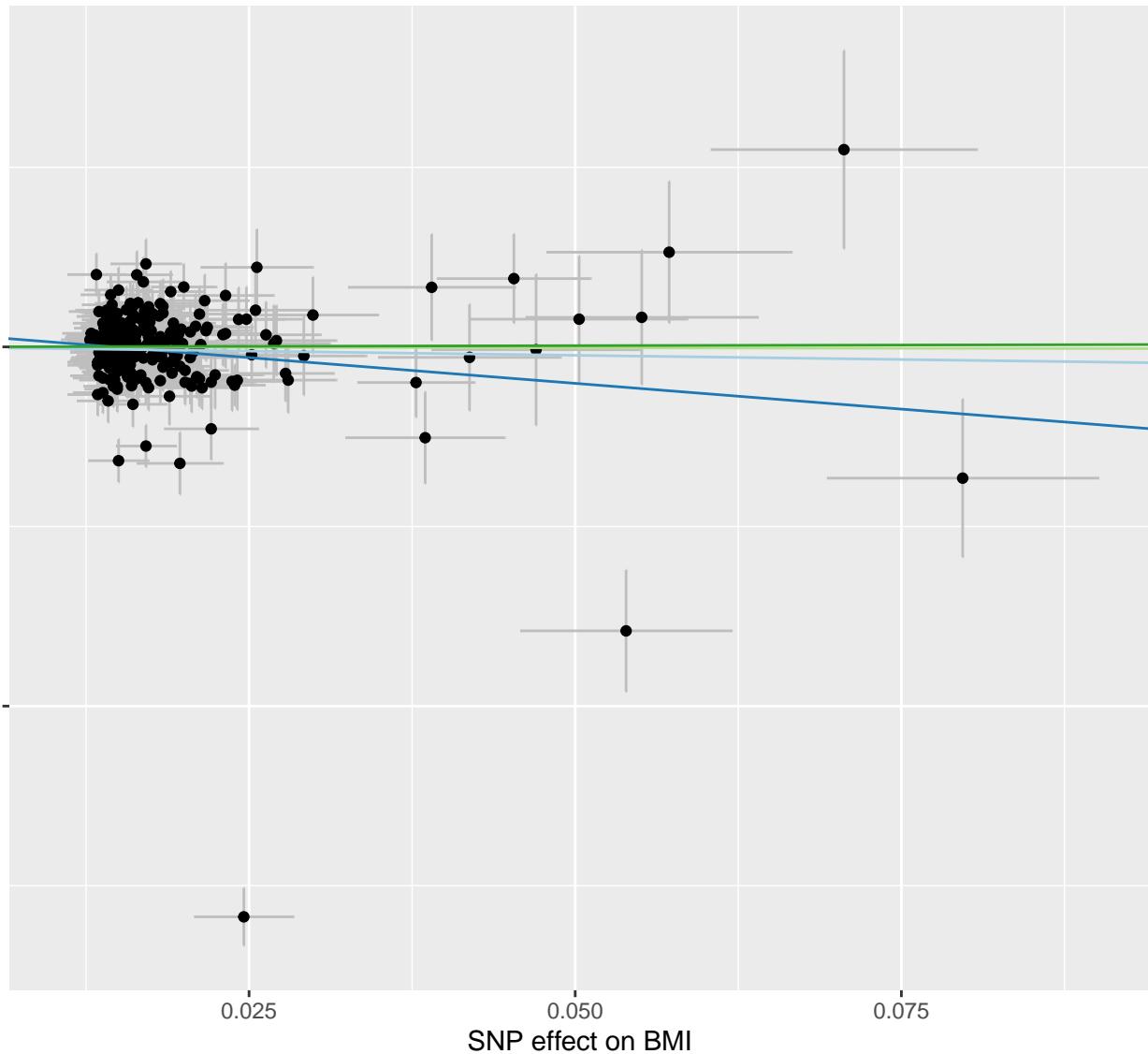


Weighted median



Weighted mode

SNP effect on M\_LDL\_C\_int\_imputed.txt\_adiposity\_instruments.txt



## MR Test



Inverse variance weighted (multiplicative random effects)



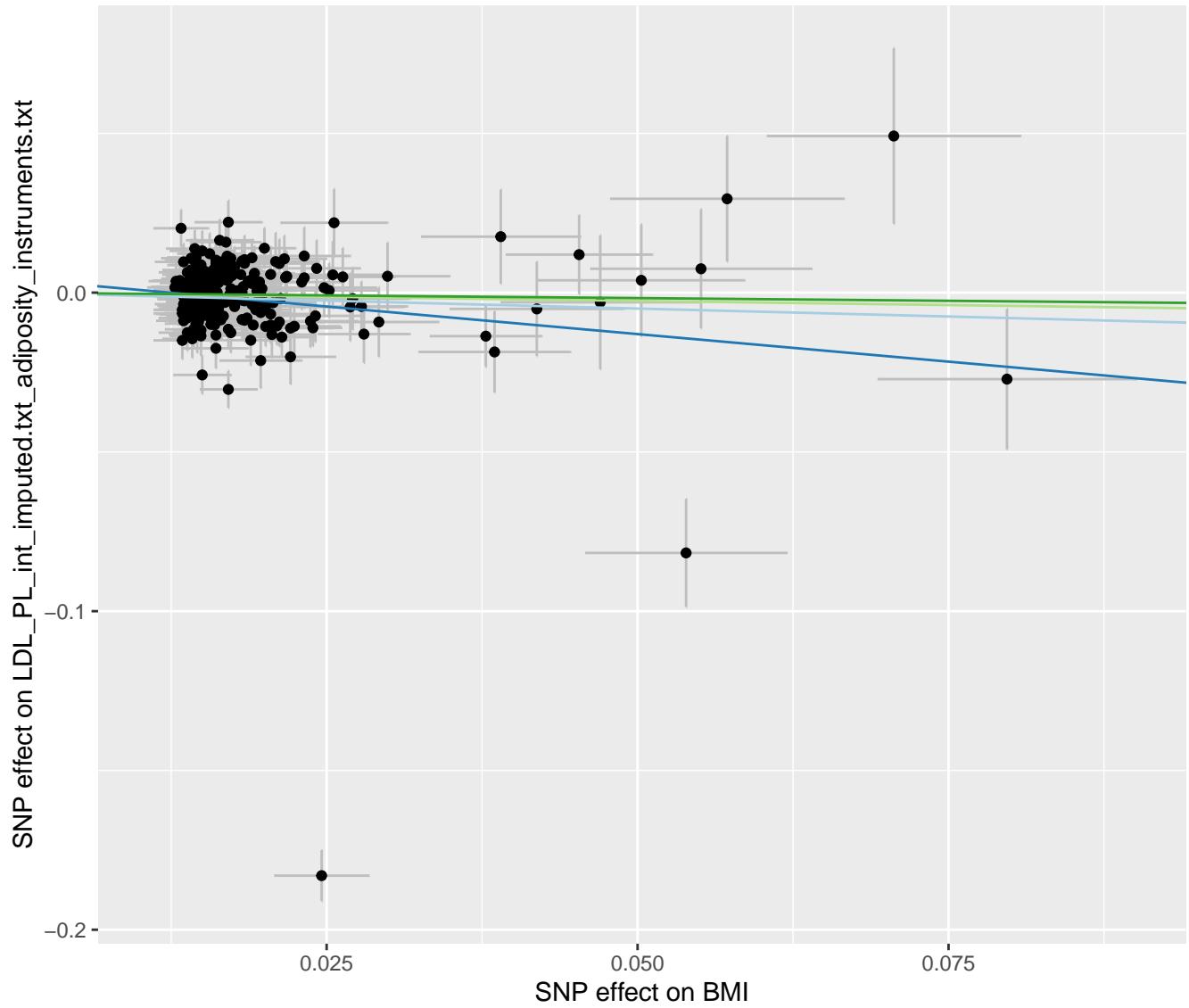
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

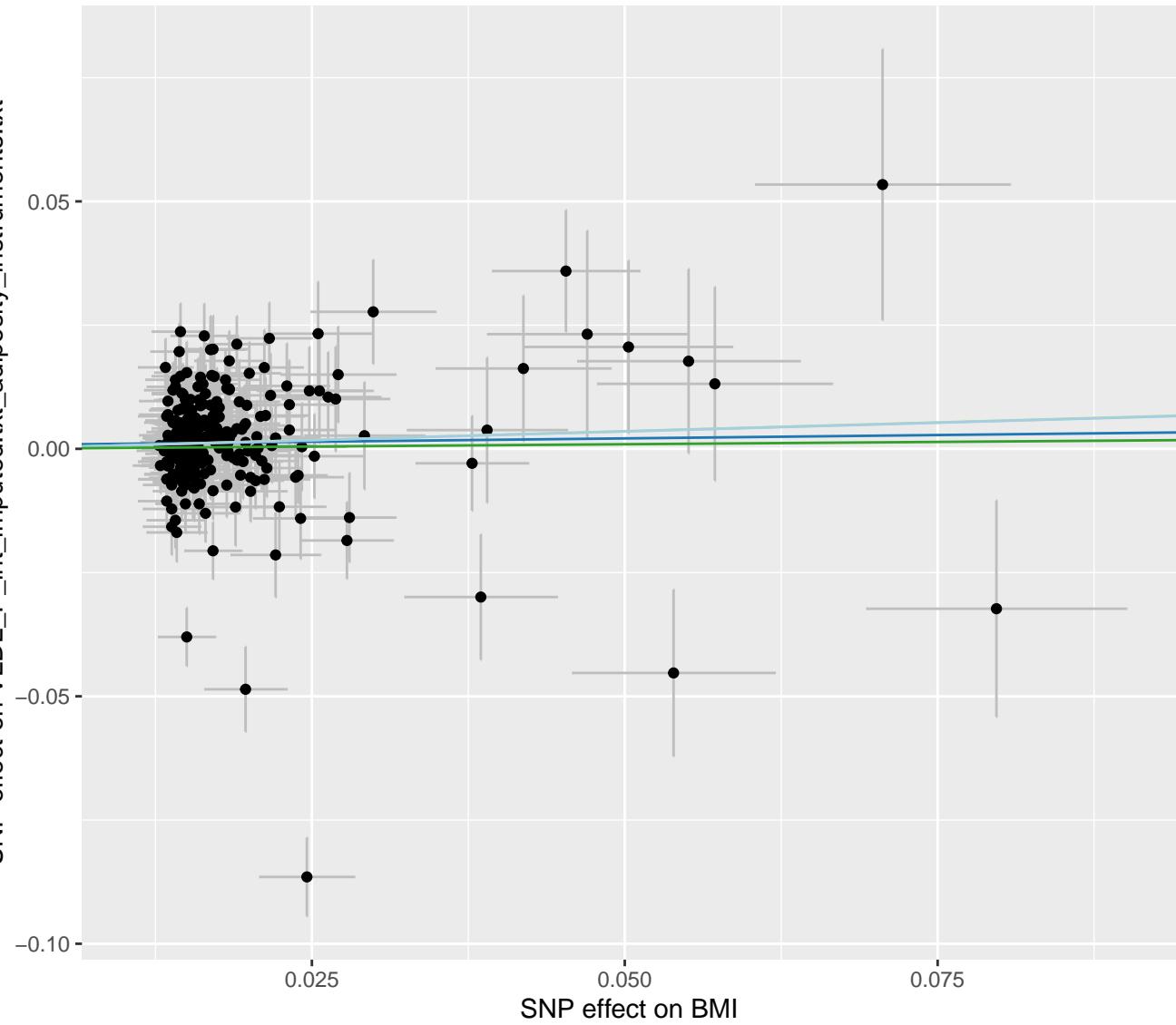


Weighted median



Weighted mode

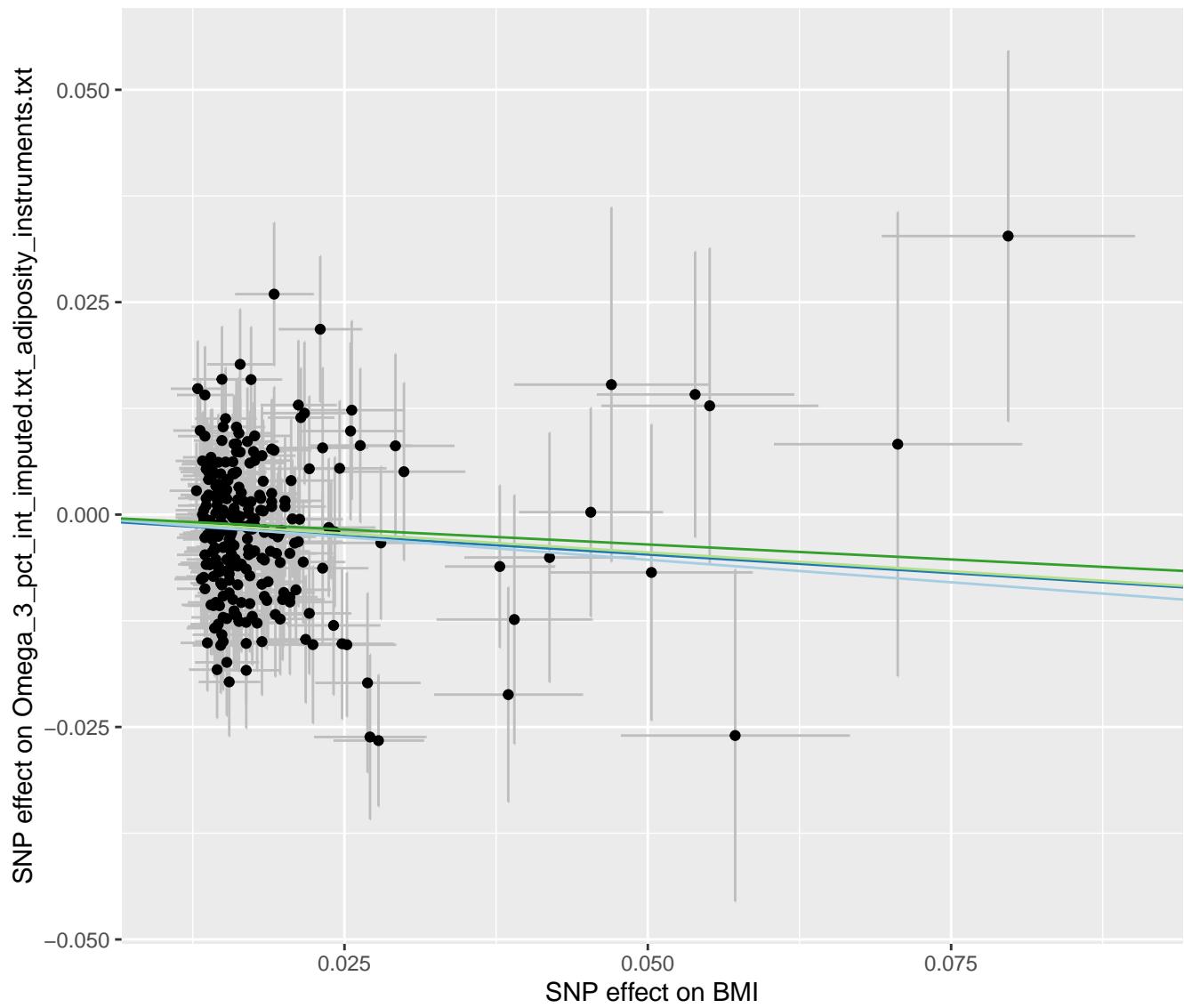
SNP effect on VLDL\_P\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test

Inverse variance weighted (multiplicative random effects)  
MR Egger

Weighted median  
Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

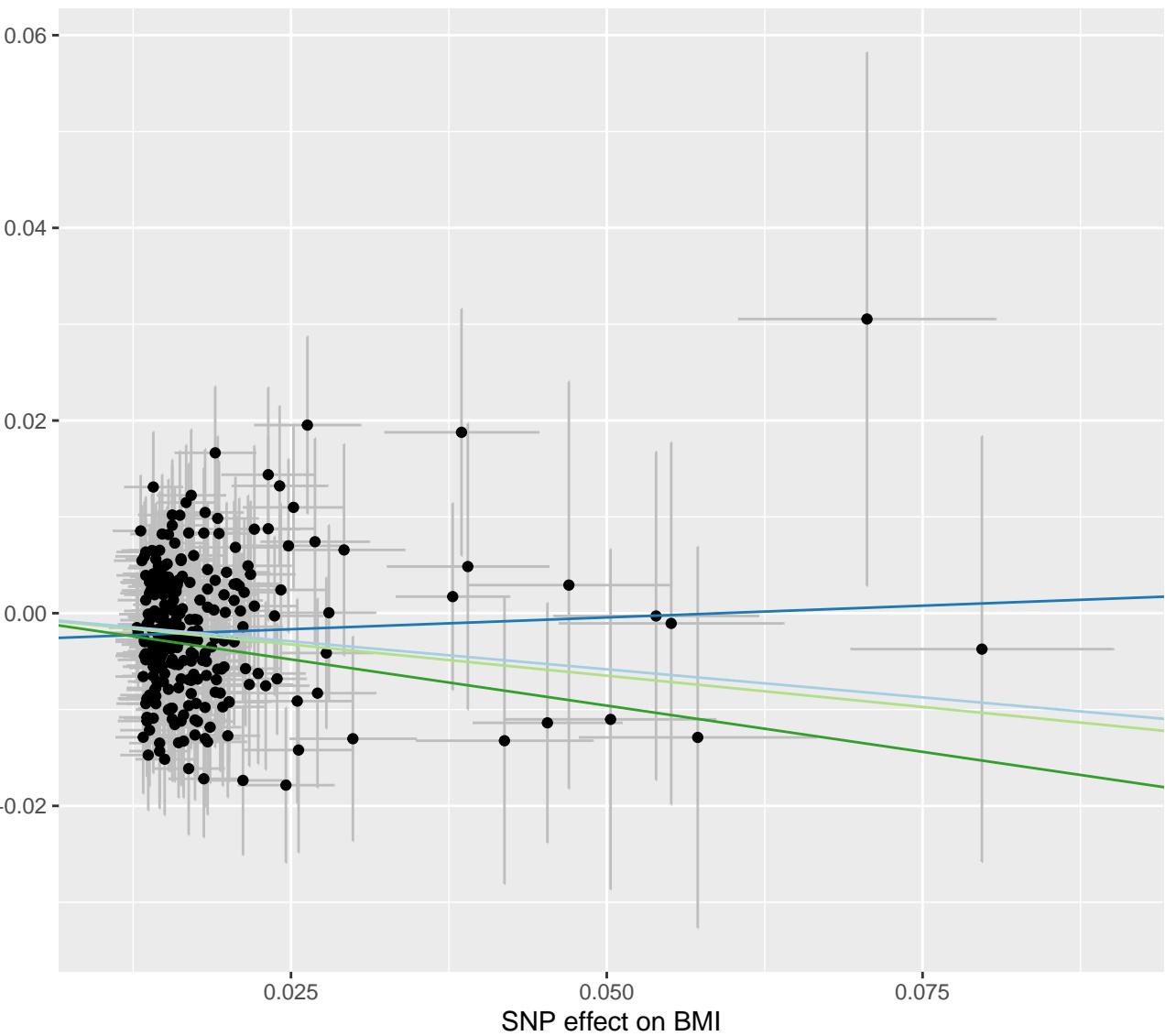


Weighted median



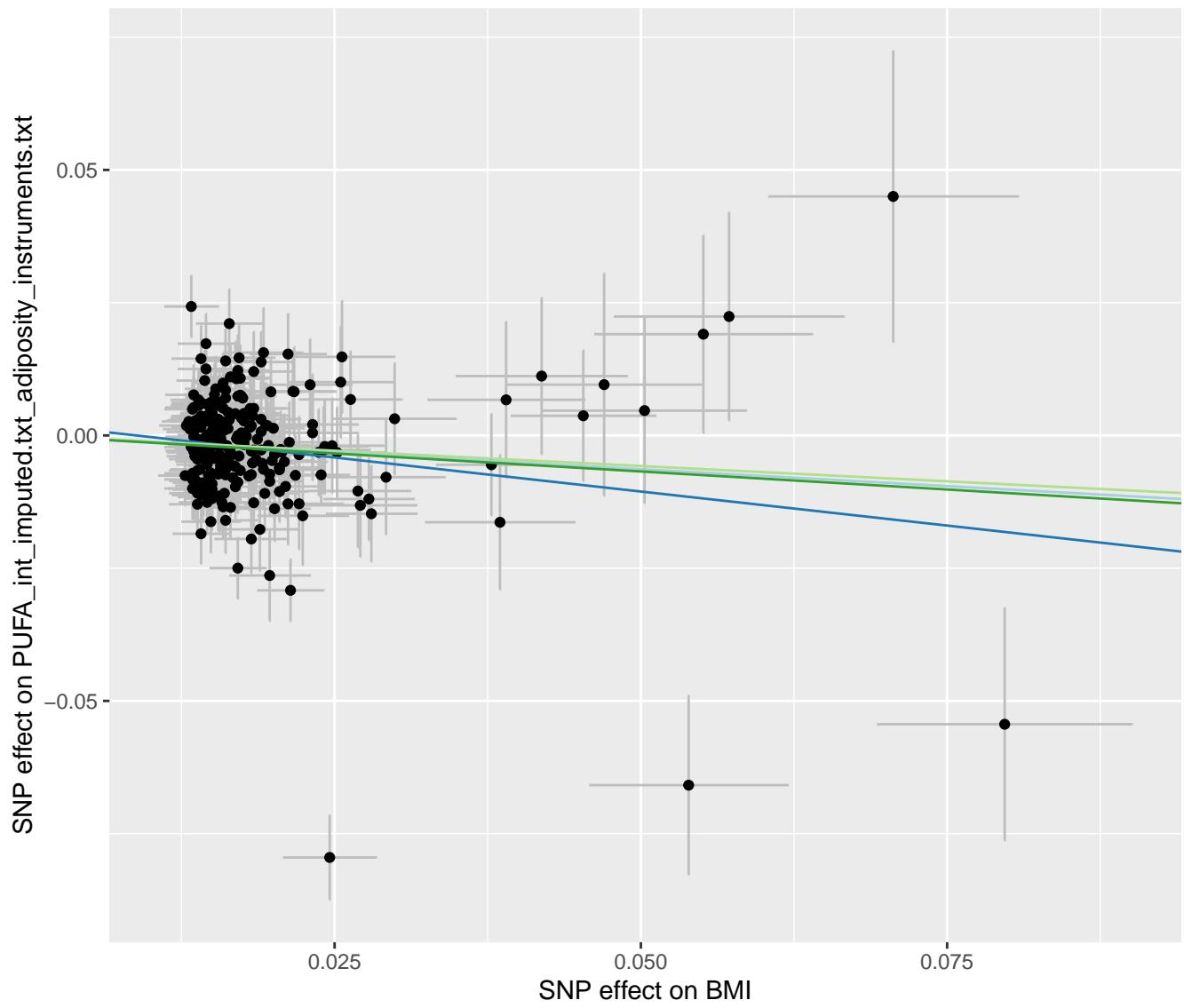
Weighted mode

SNP effect on Acetate\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test

 Inverse variance weighted (multiplicative random effects)  
 MR Egger  
 Weighted median  
 Weighted mode



## MR Test



Inverse variance weighted (multiplicative random effects)



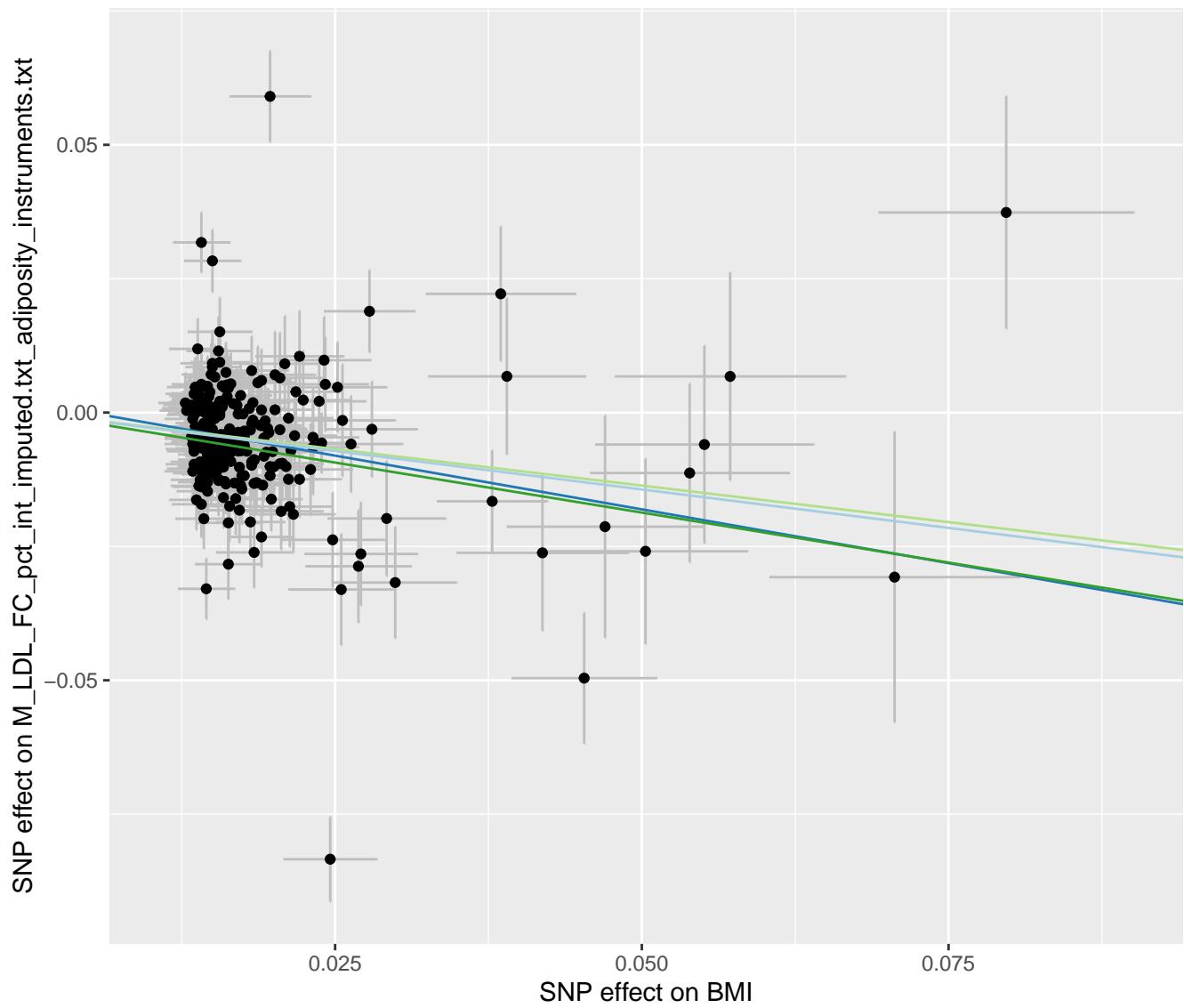
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



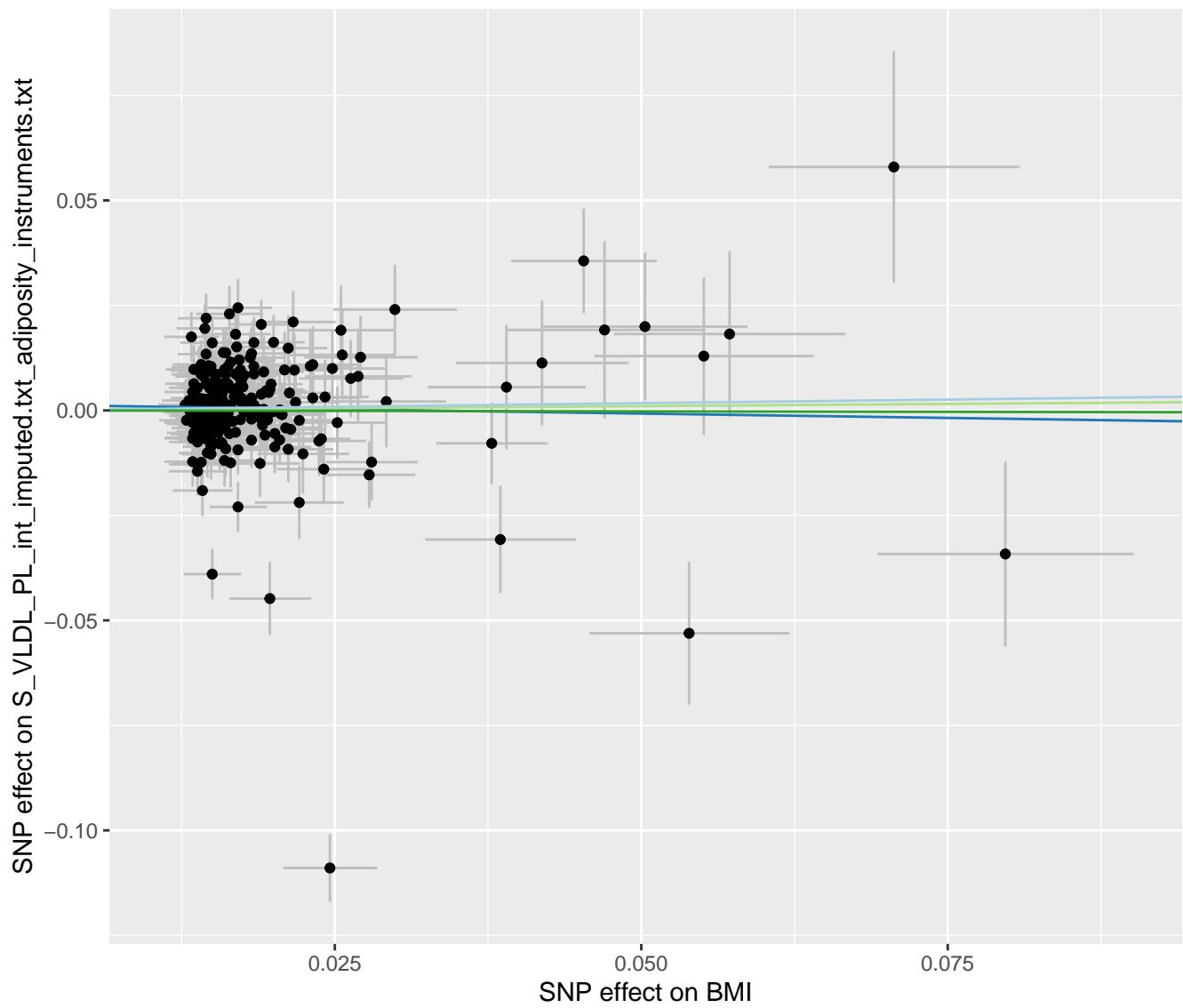
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



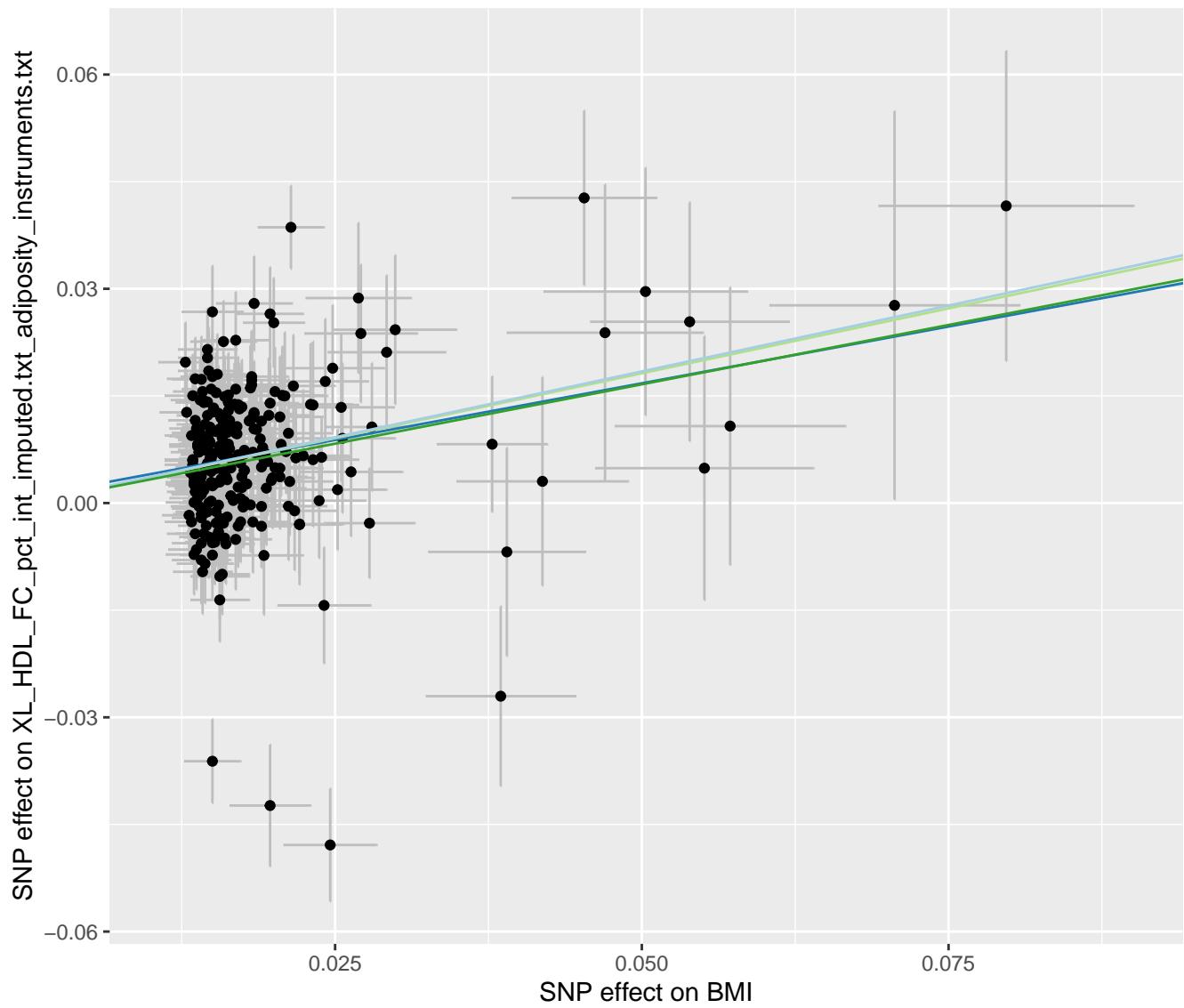
MR Egger



Weighted median



Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger



Weighted median



Weighted mode

