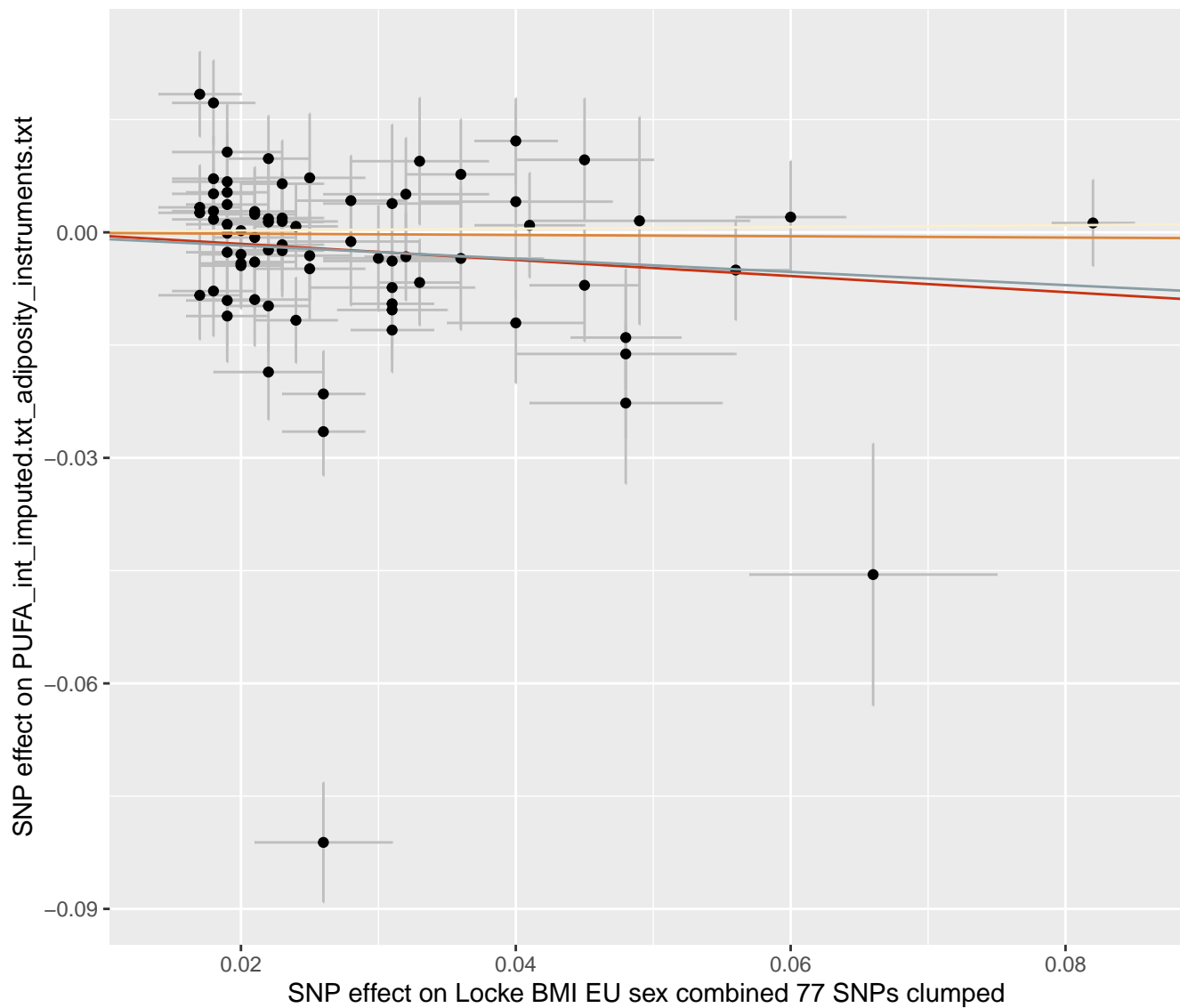


# MR Test

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



# MR Test

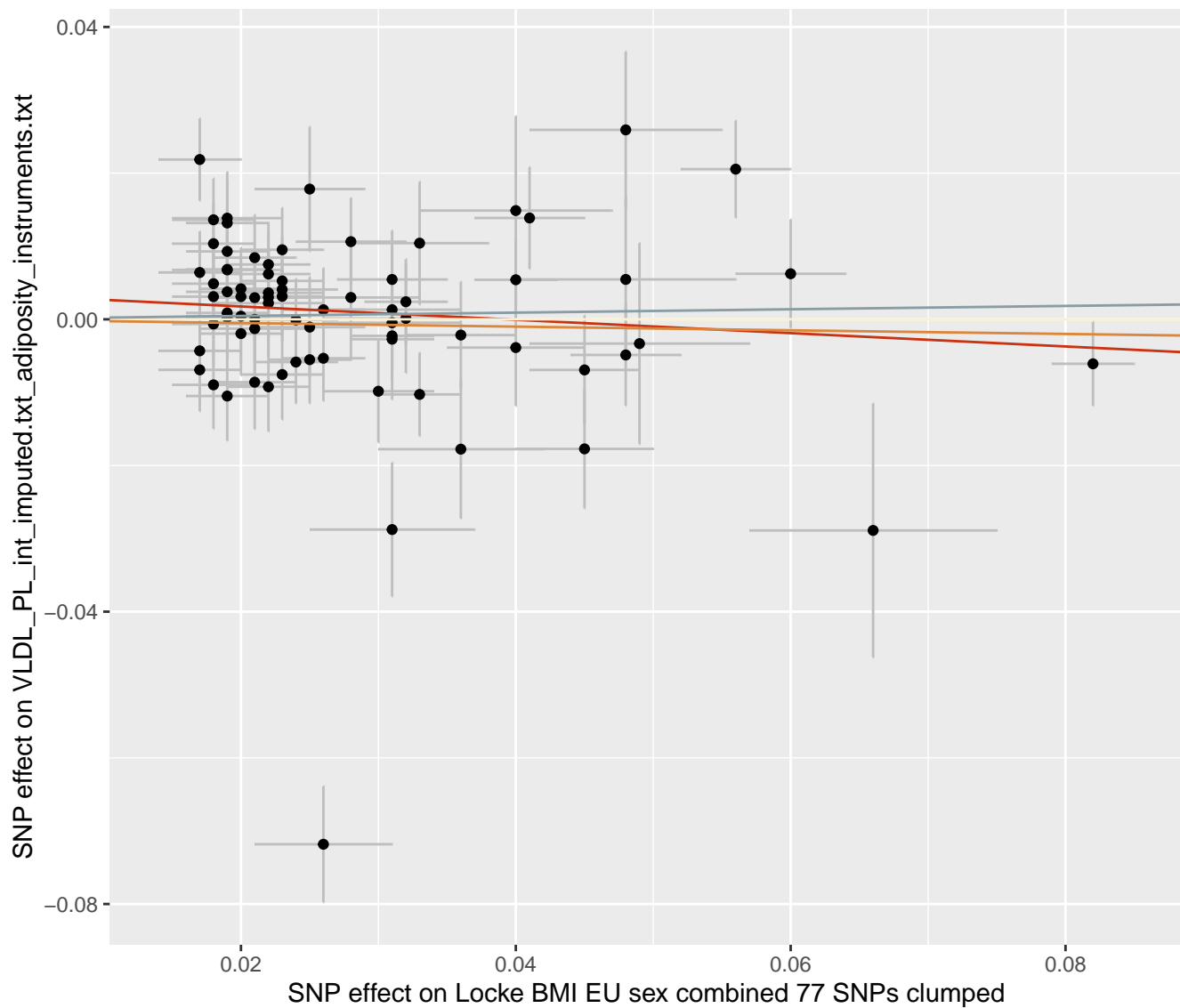


Inverse variance weighted (multiplicative random effects)

MR Egger

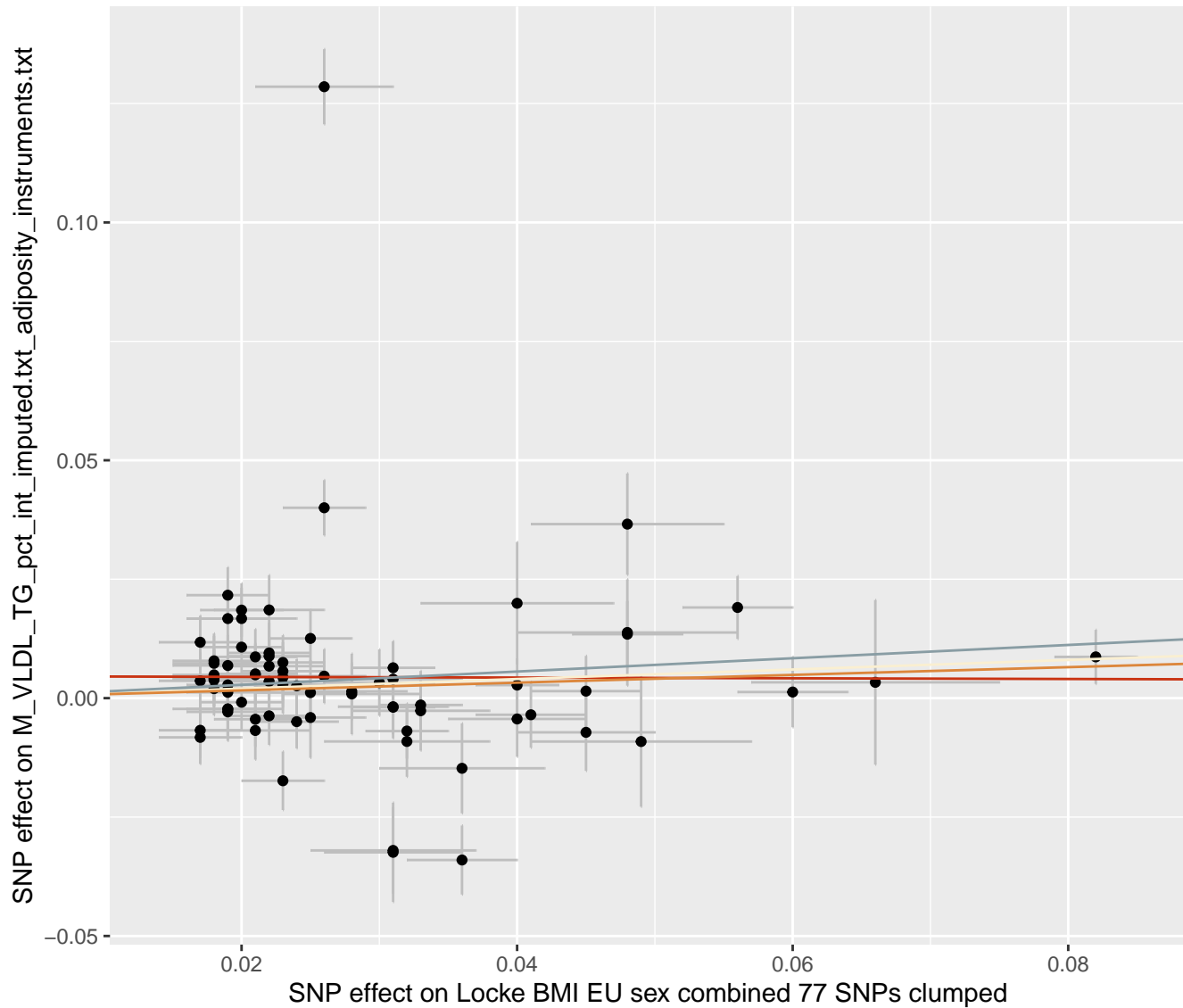
Weighted median

Weighted mode



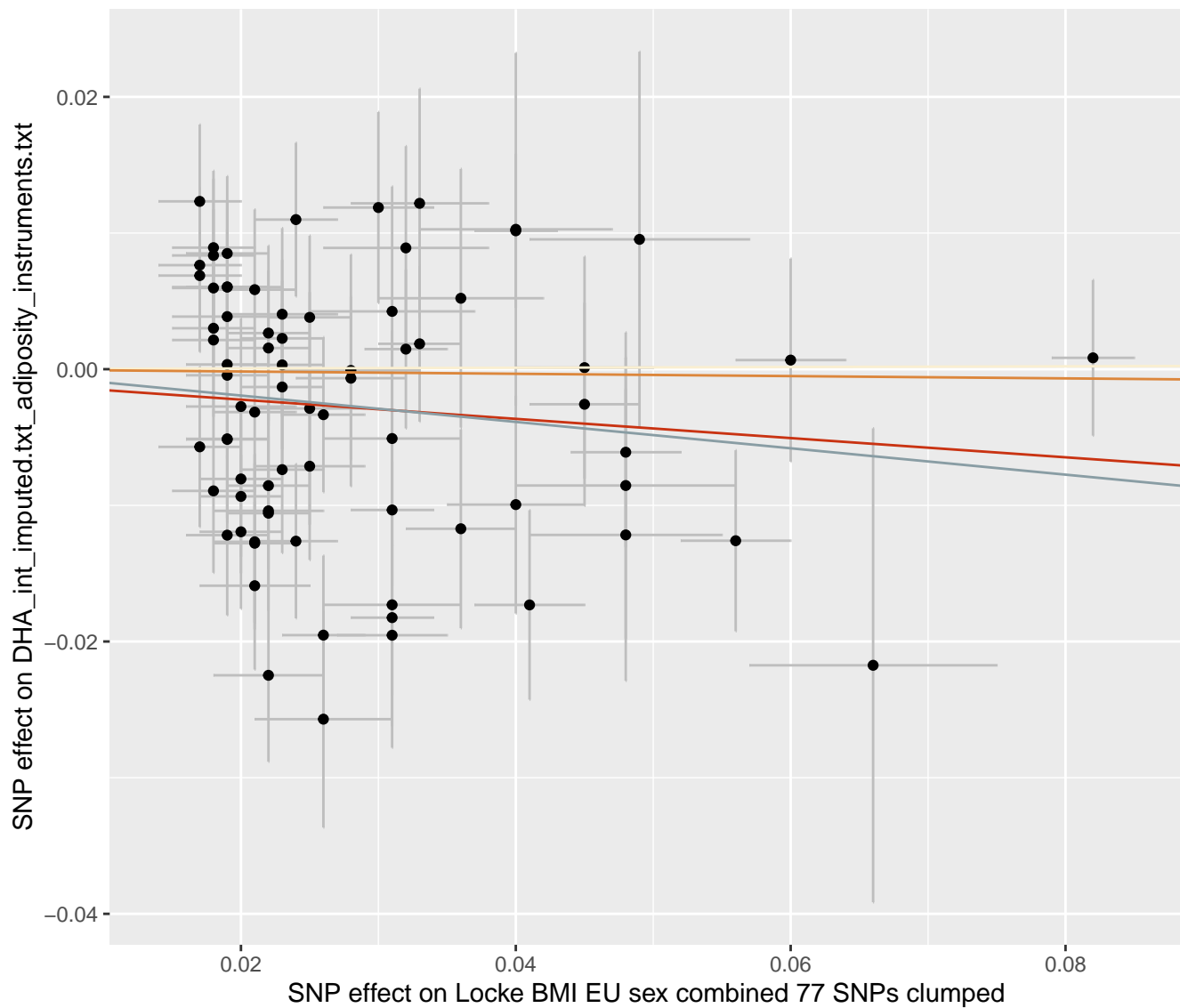
# MR Test

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



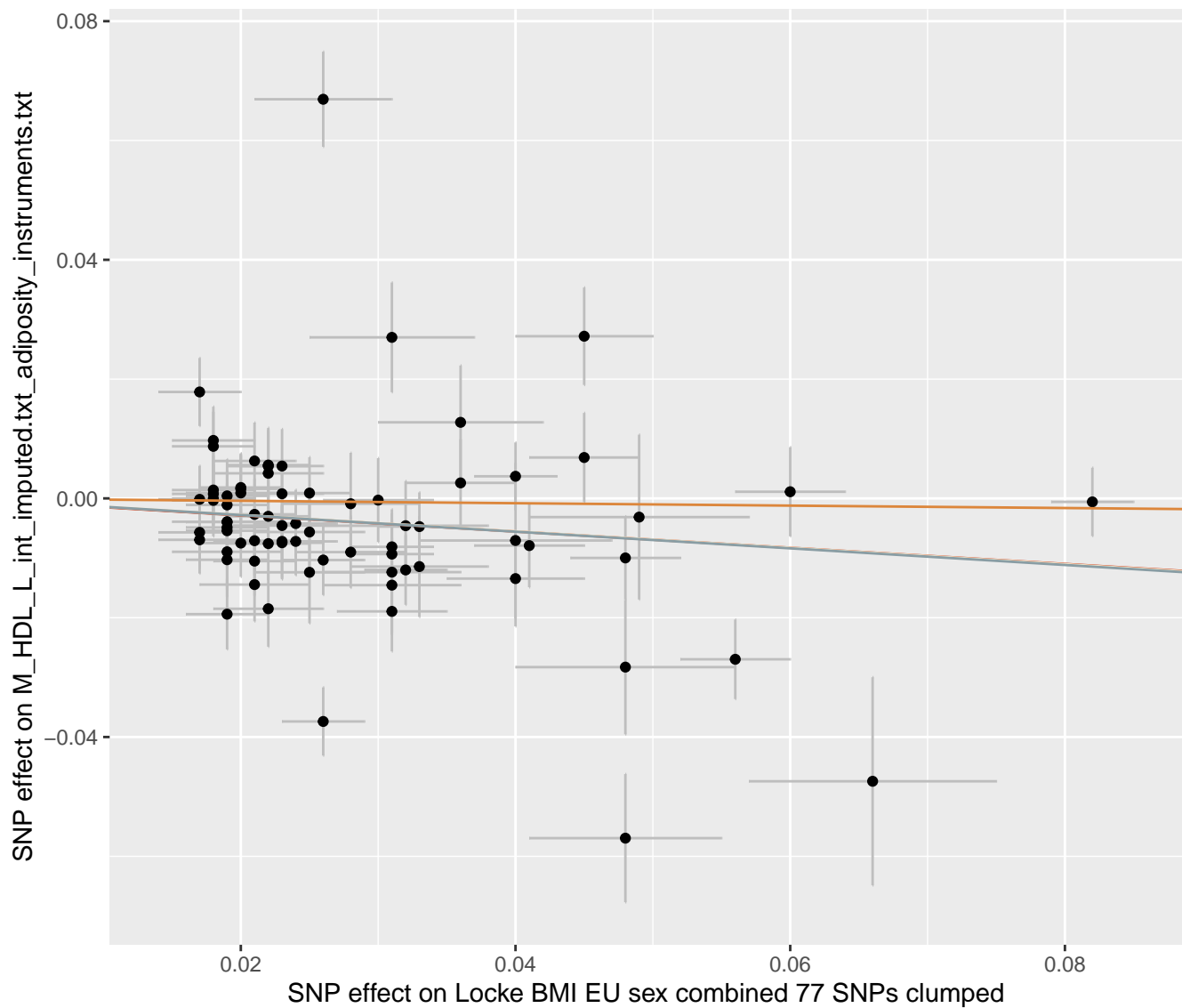
# MR Test

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



# MR Test

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



# MR Test

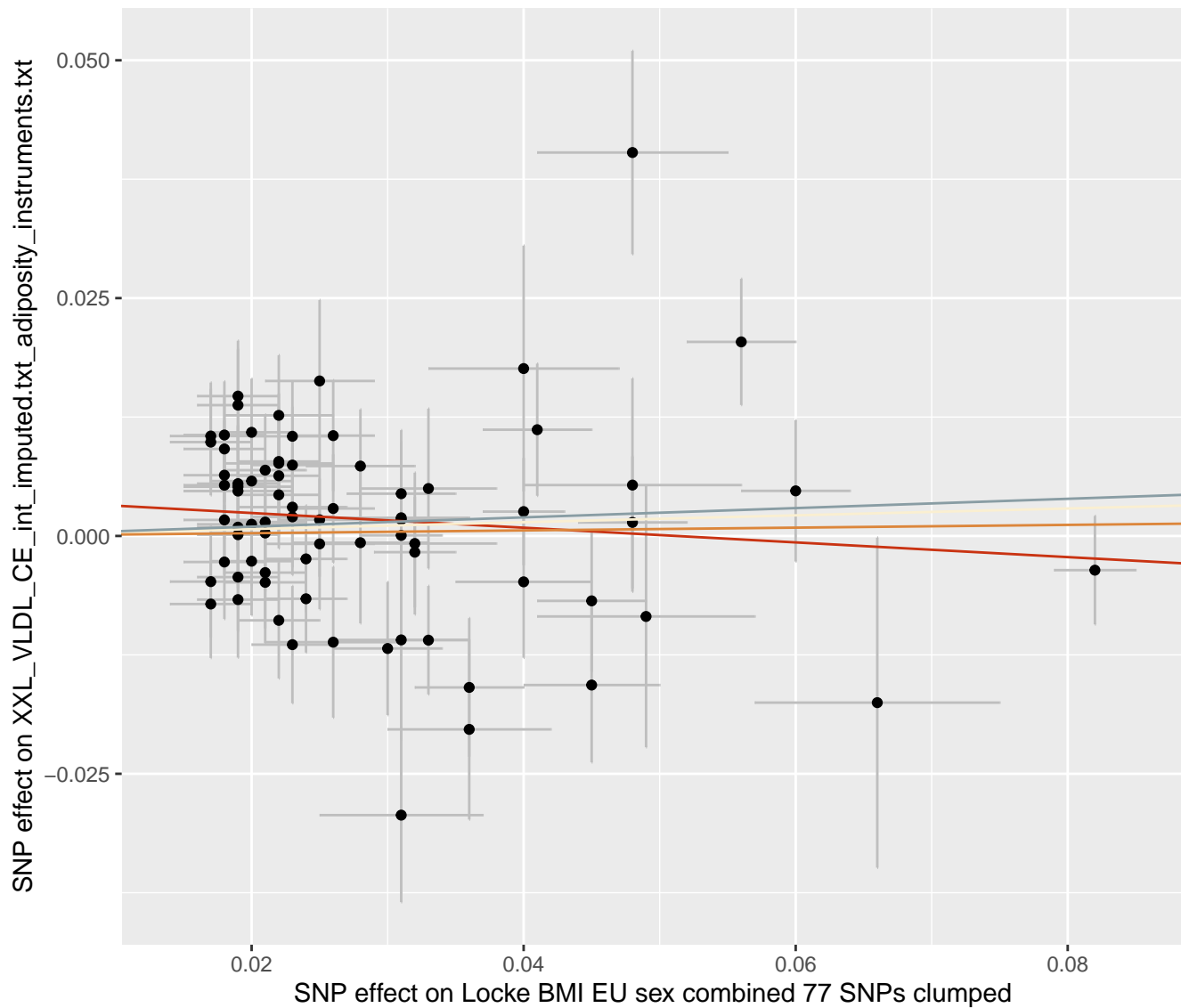


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test



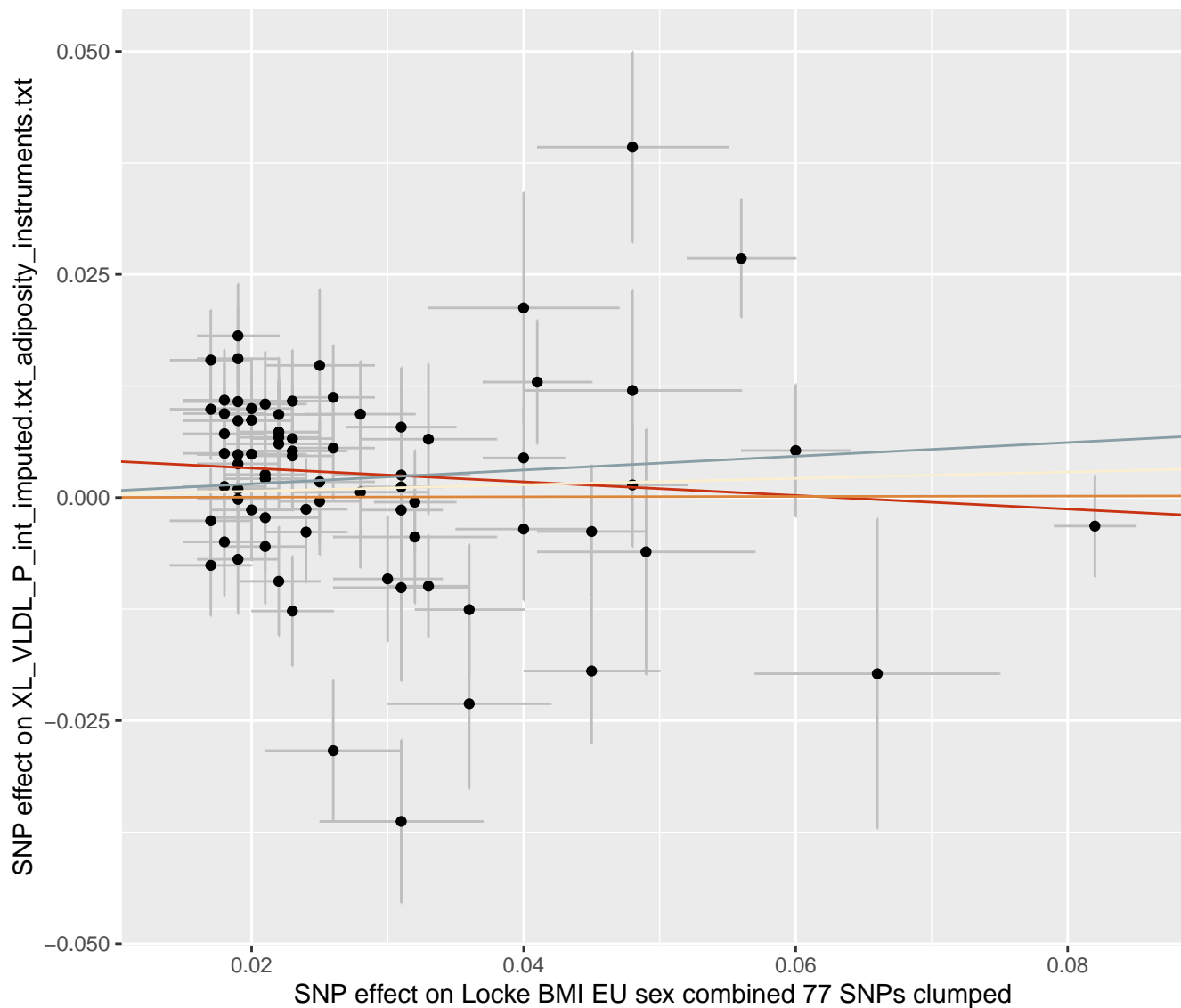
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



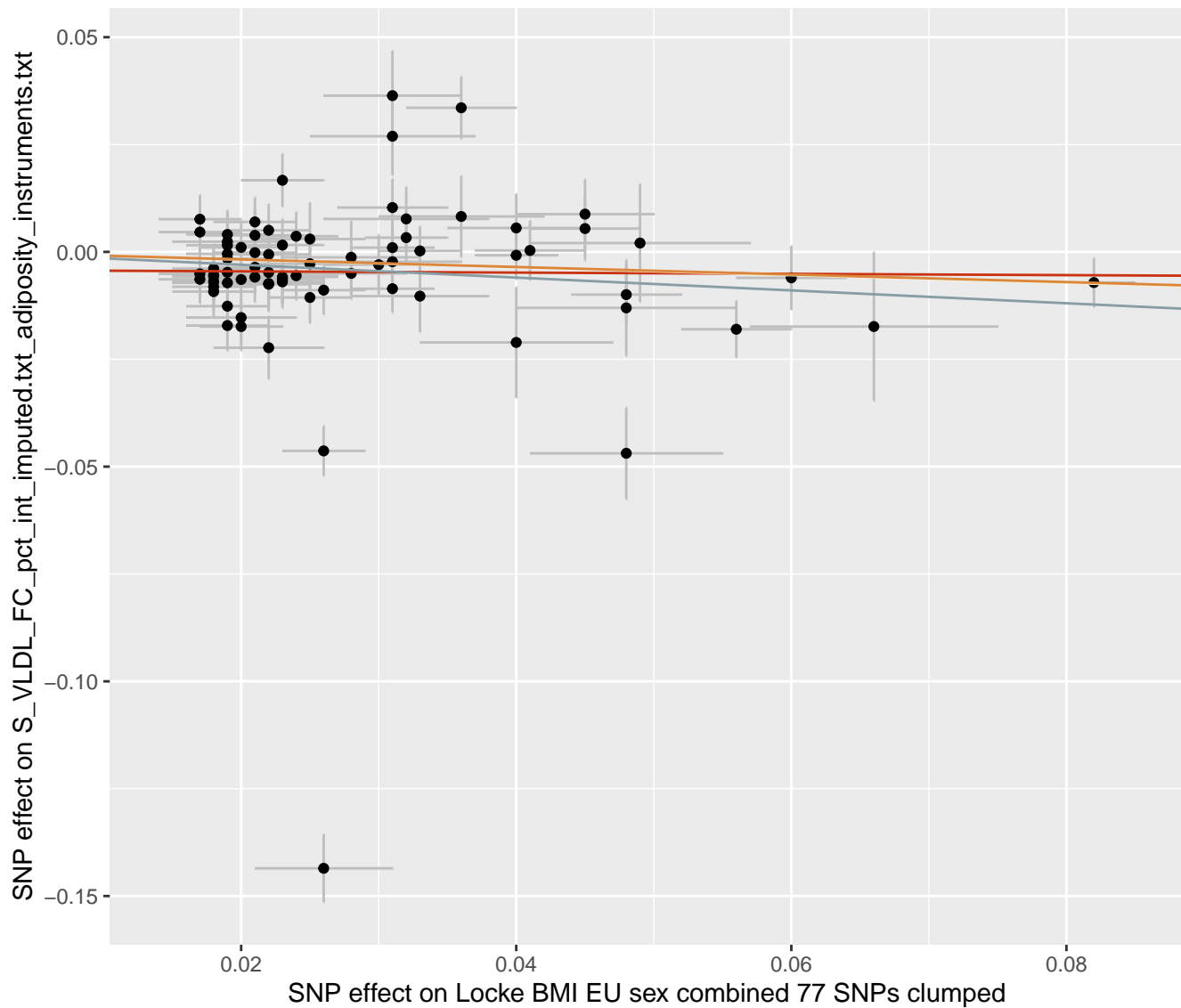
MR Egger



Weighted median



Weighted mode



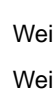


# MR Test



Inverse variance weighted (multiplicative random effects)

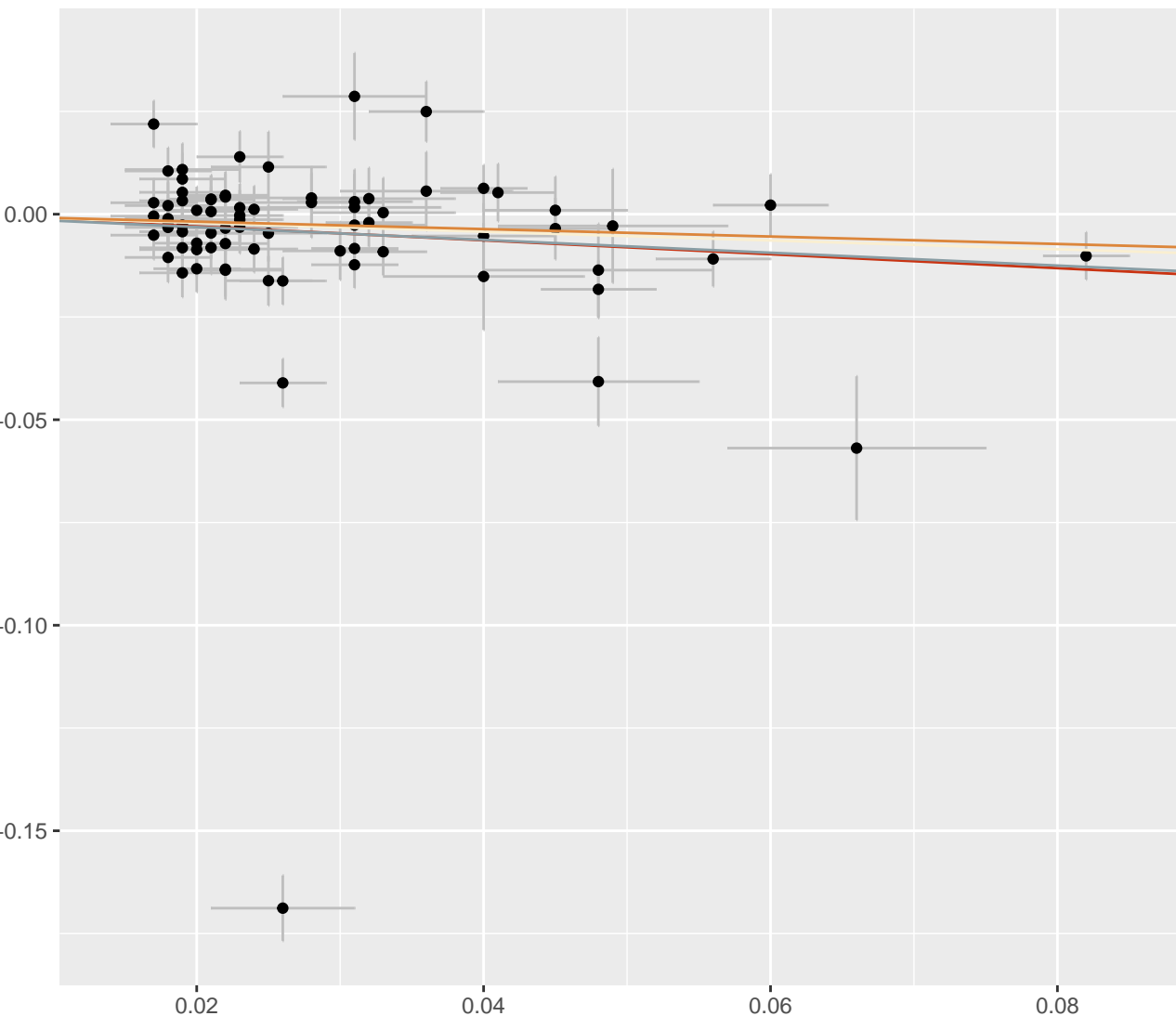
MR Egger



Weighted median

Weighted mode

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



# MR Test



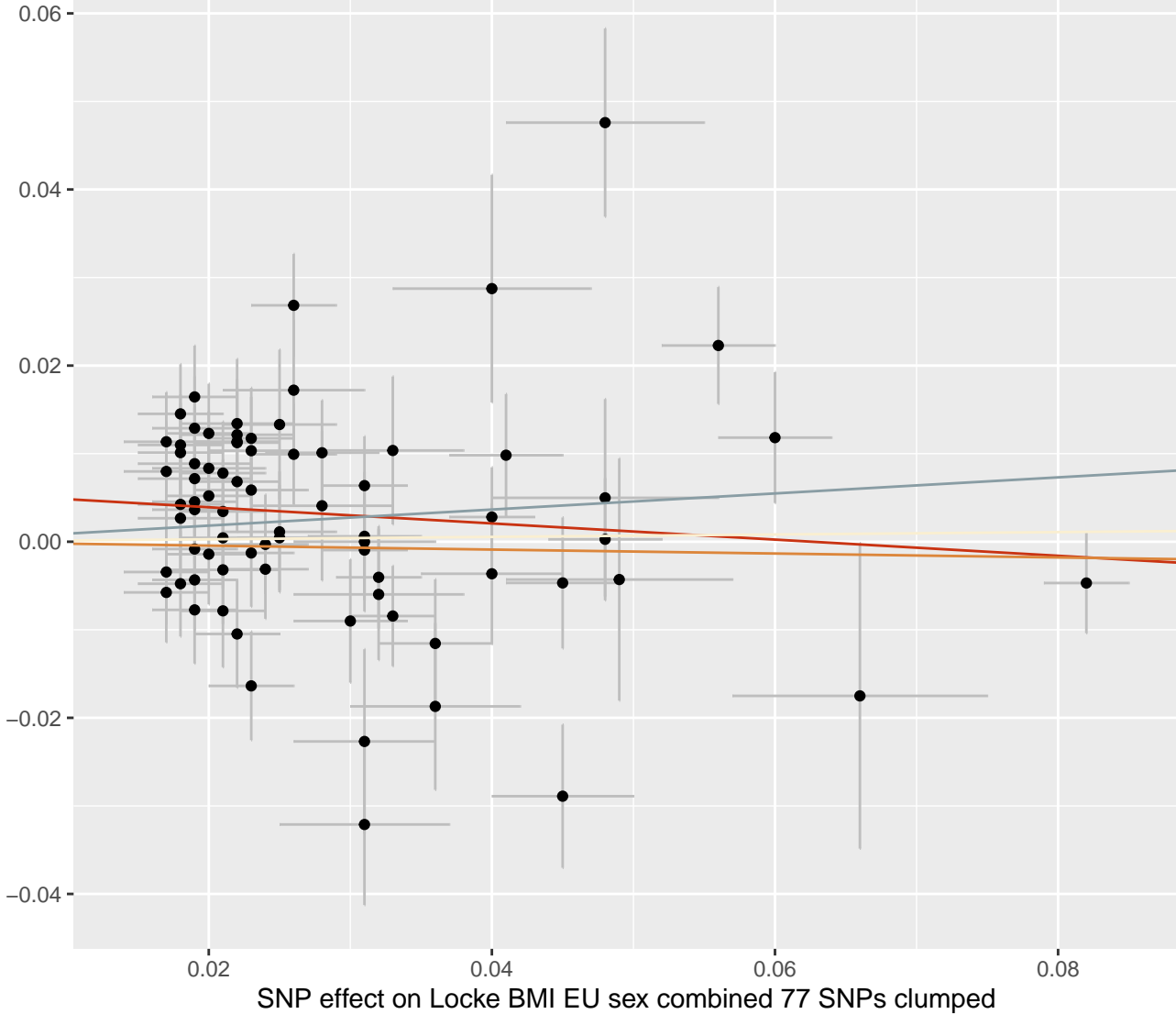
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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



# MR Test



Inverse variance weighted (multiplicative random effects)

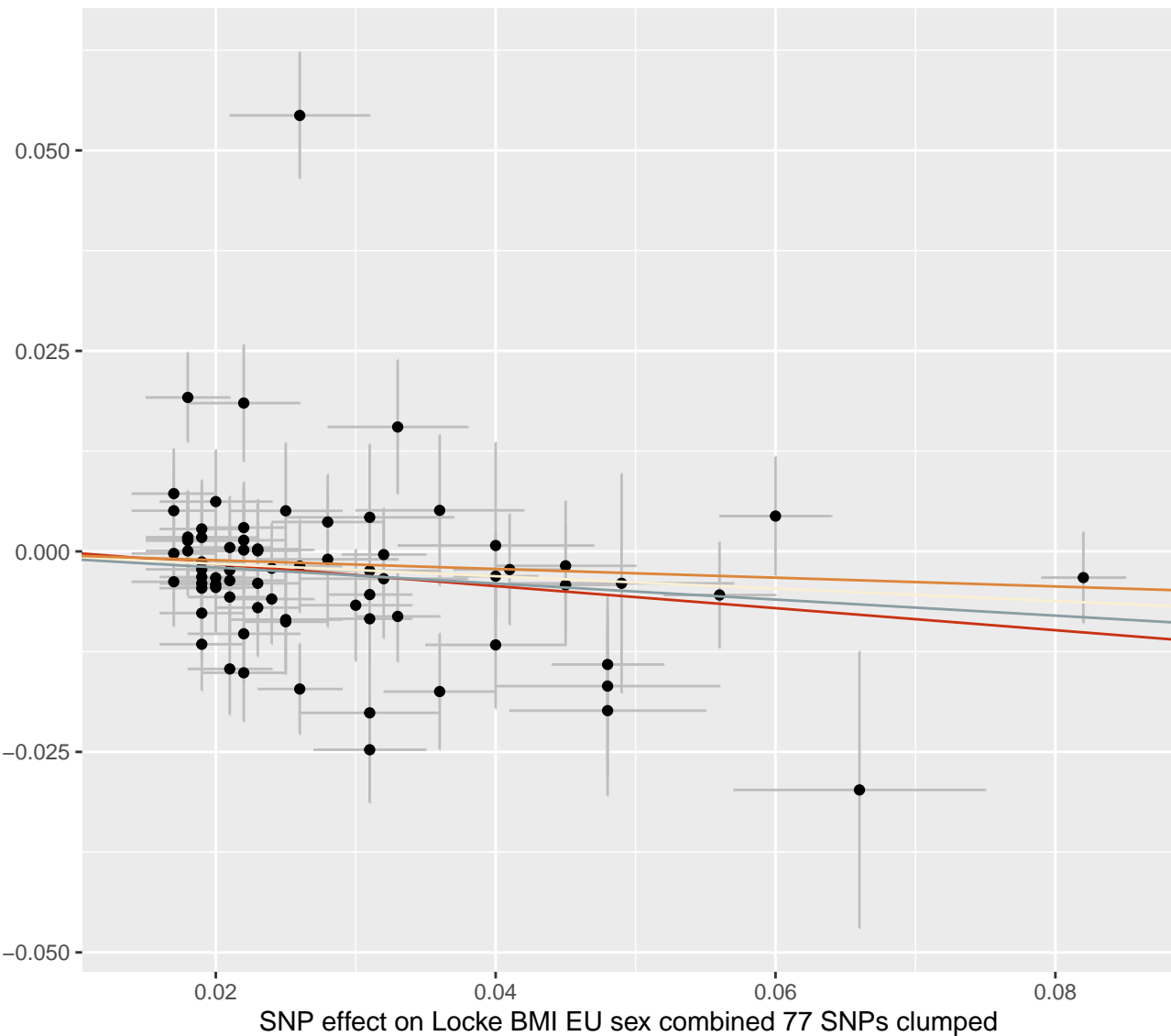
MR Egger



Weighted median

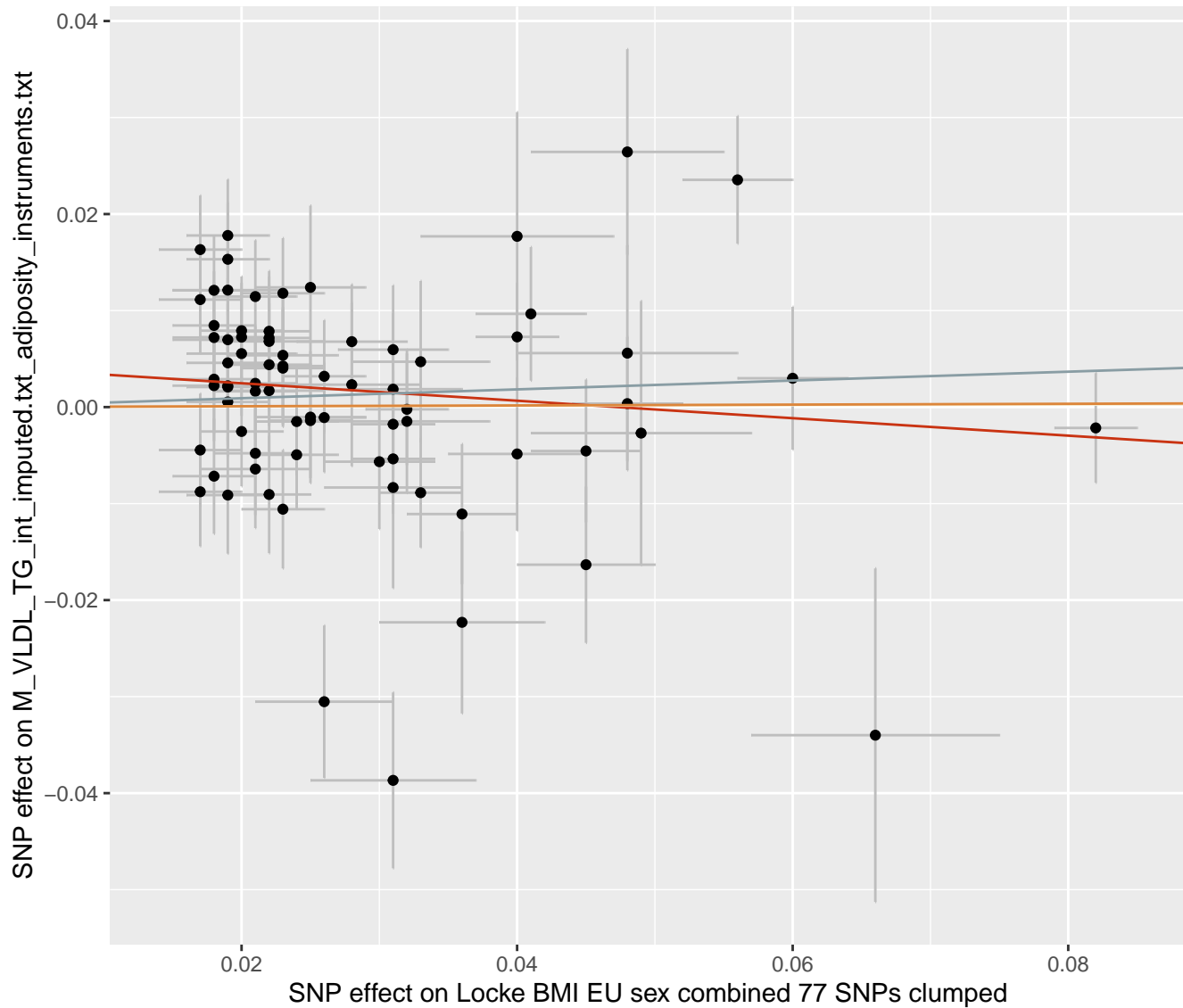
Weighted mode

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

0.00

-0.05

-0.10

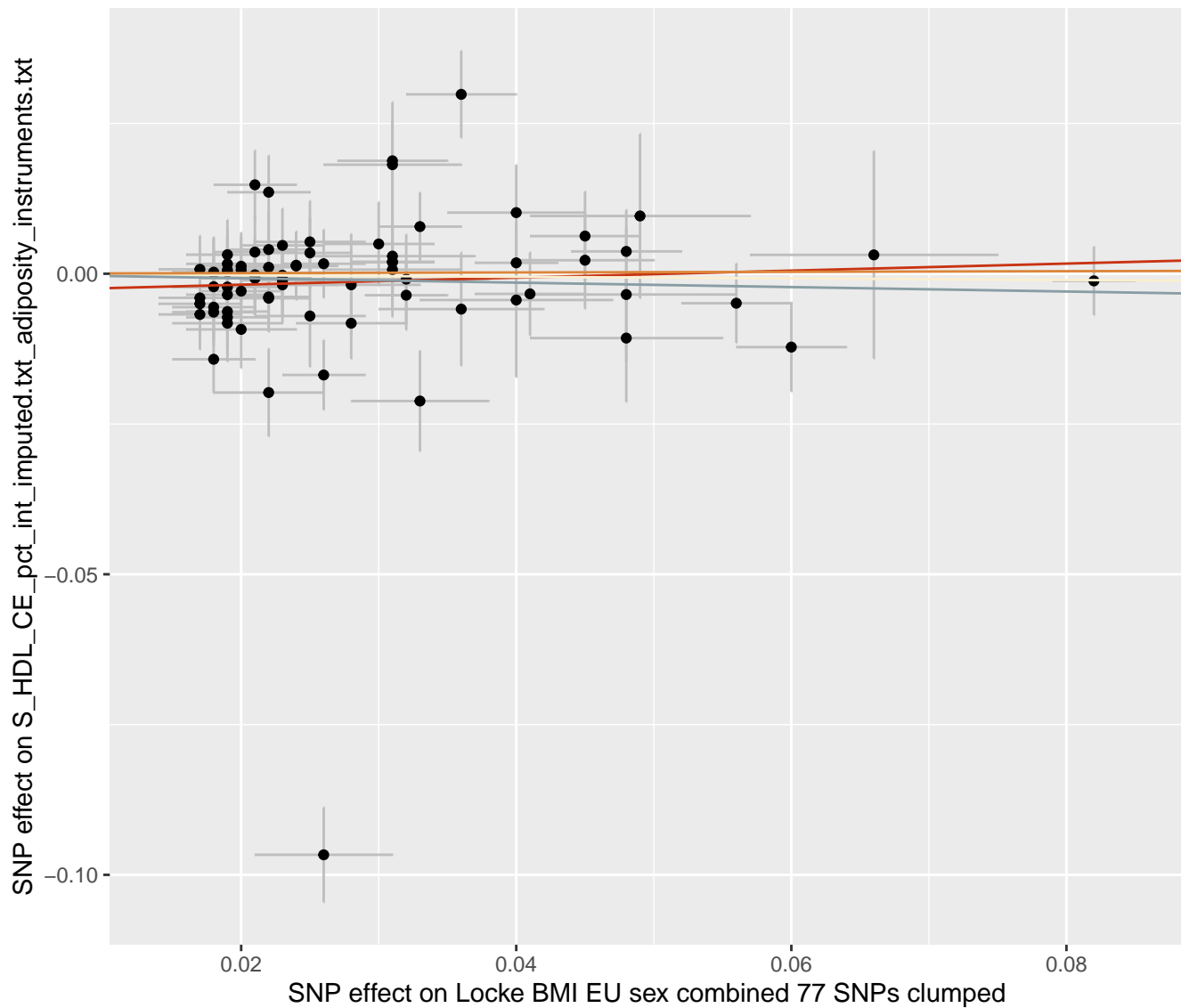
0.02

0.04

0.06

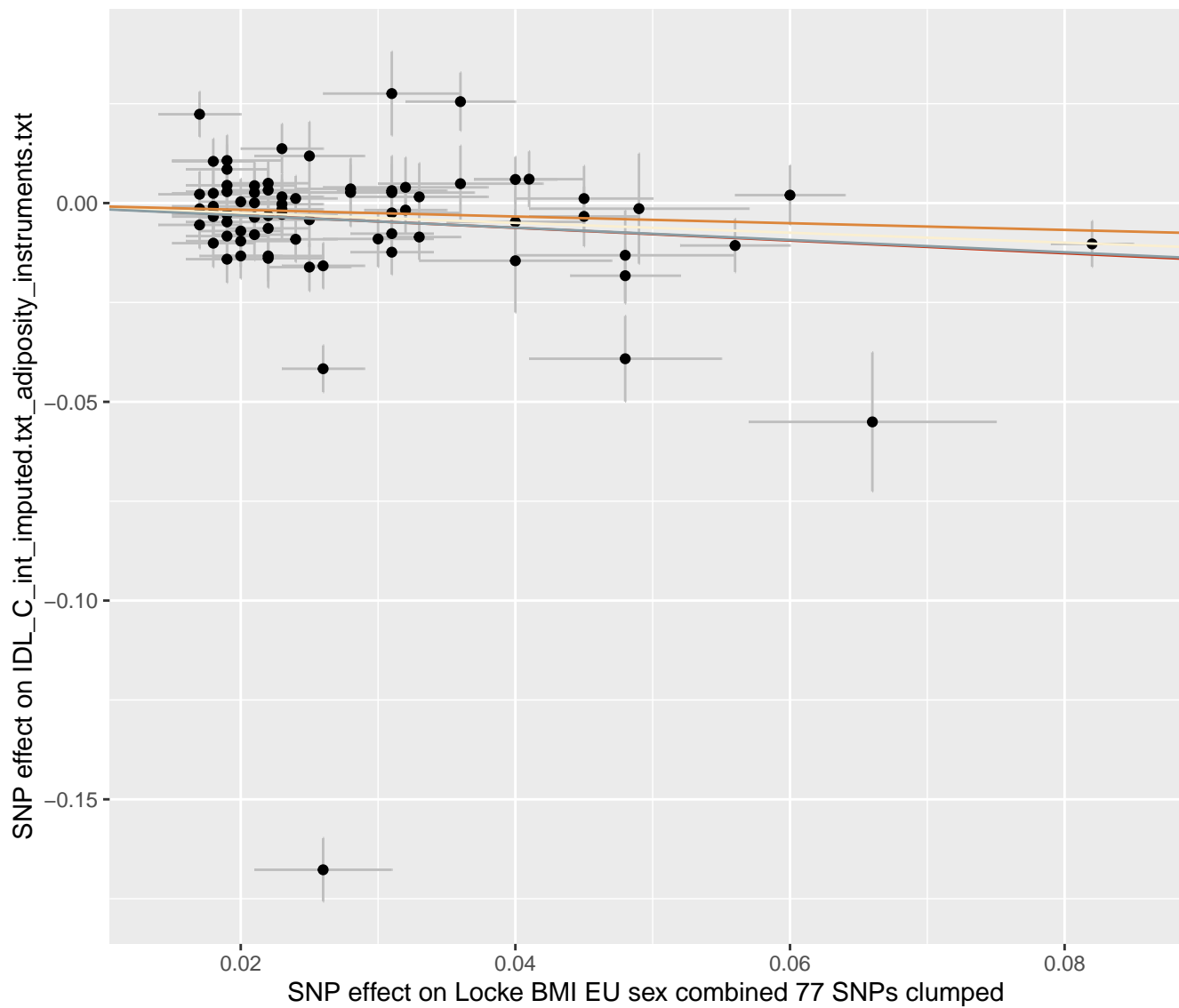
0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test

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



# MR Test



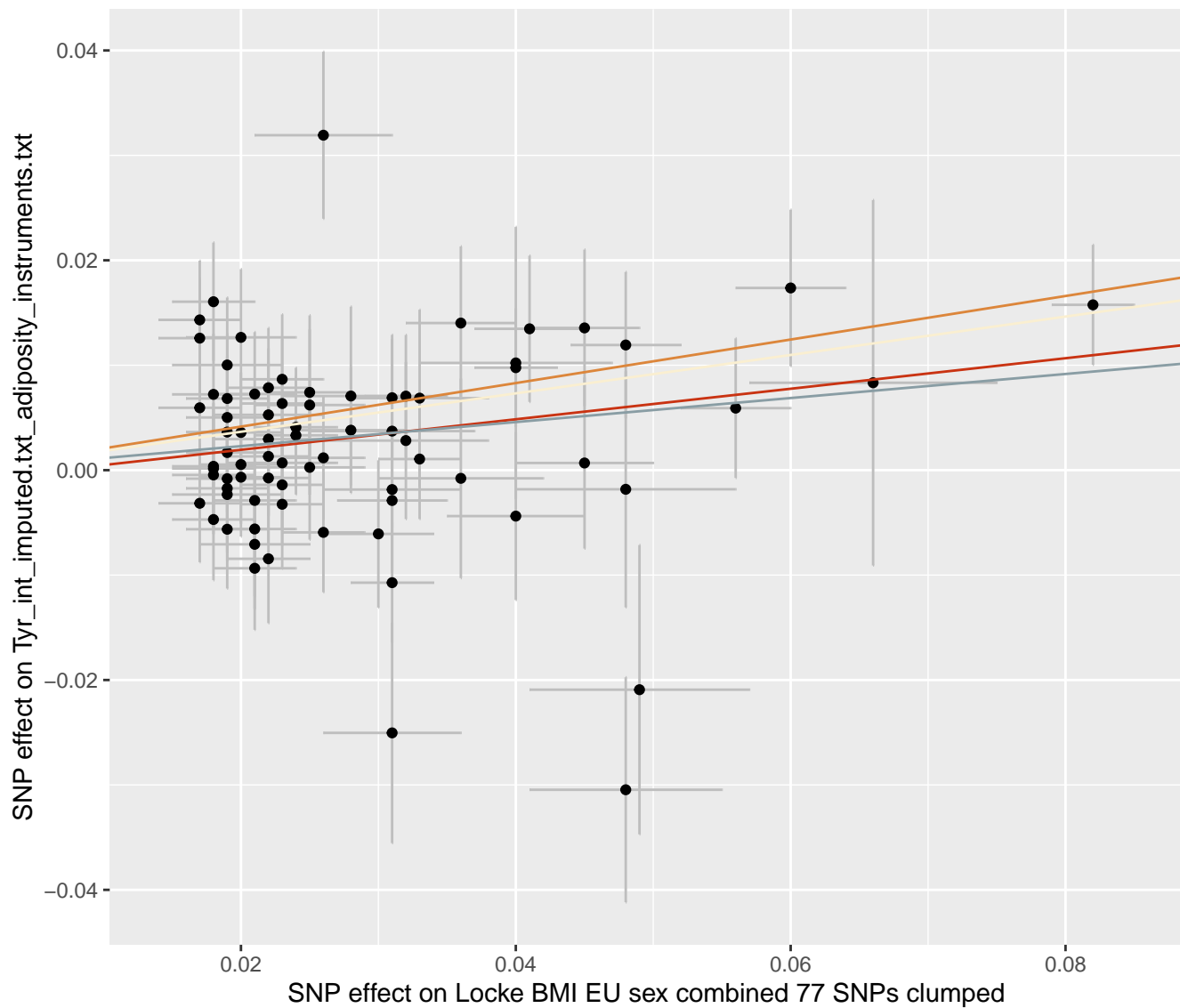
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test

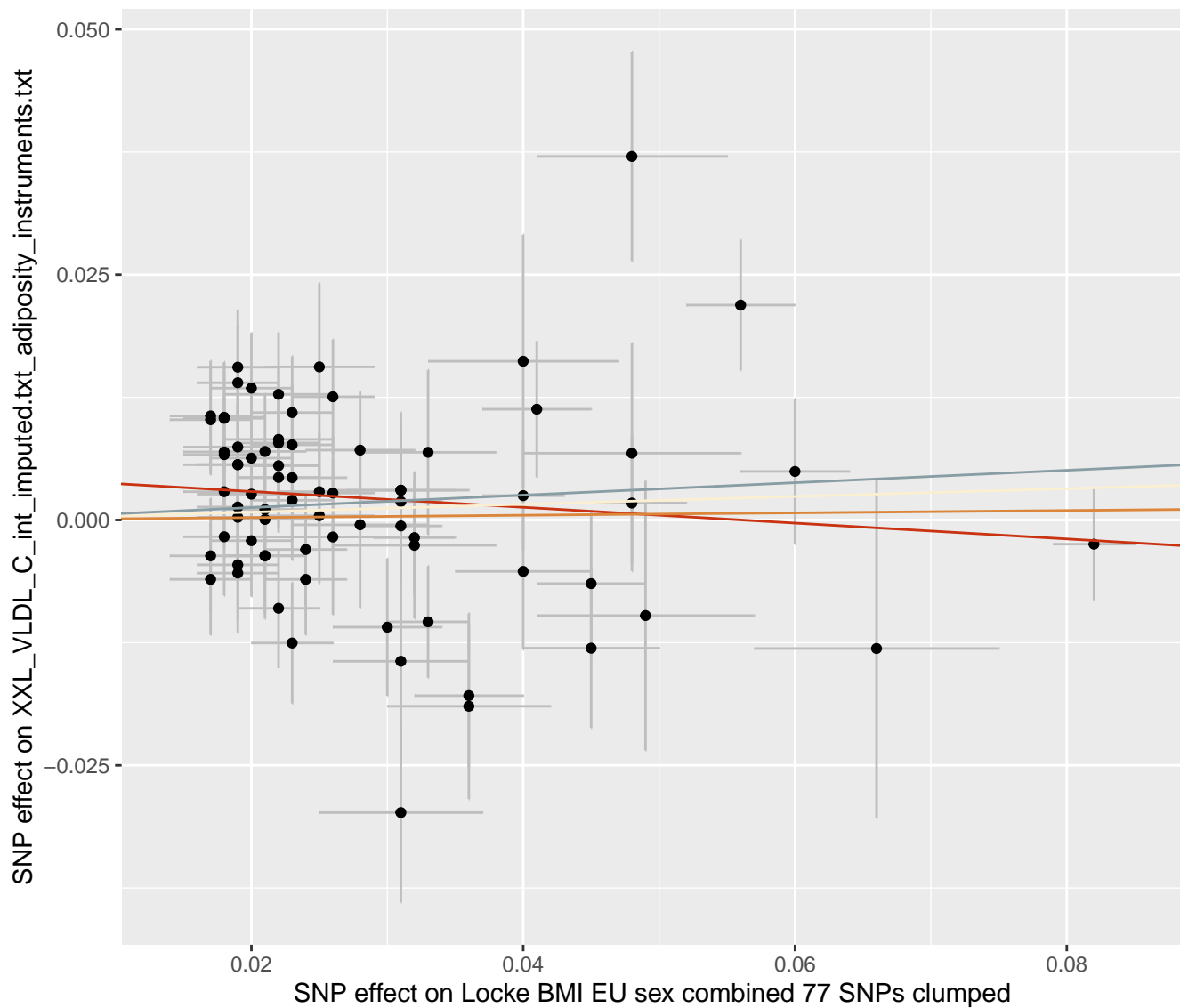


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode





# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.00

-0.05

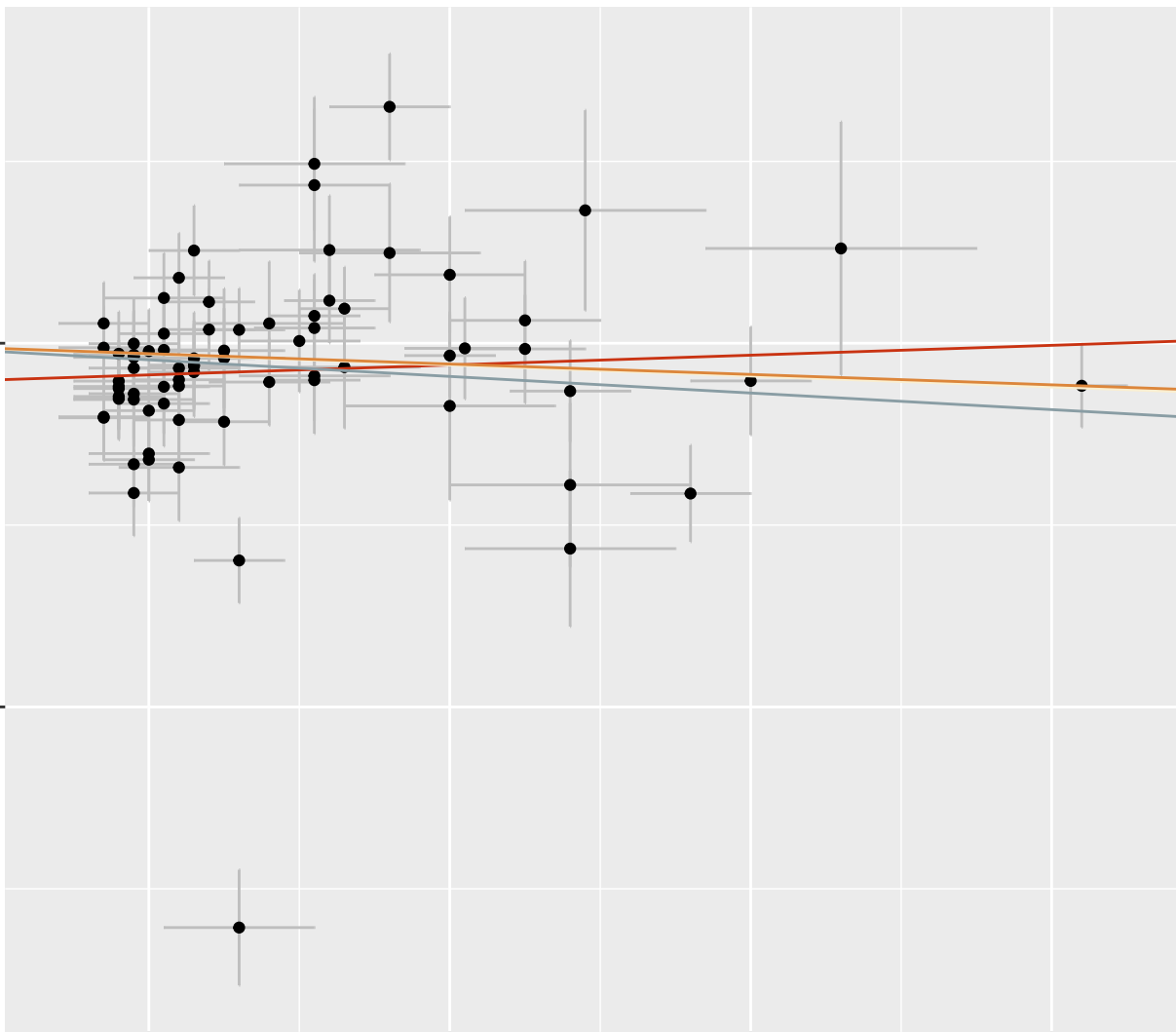
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test



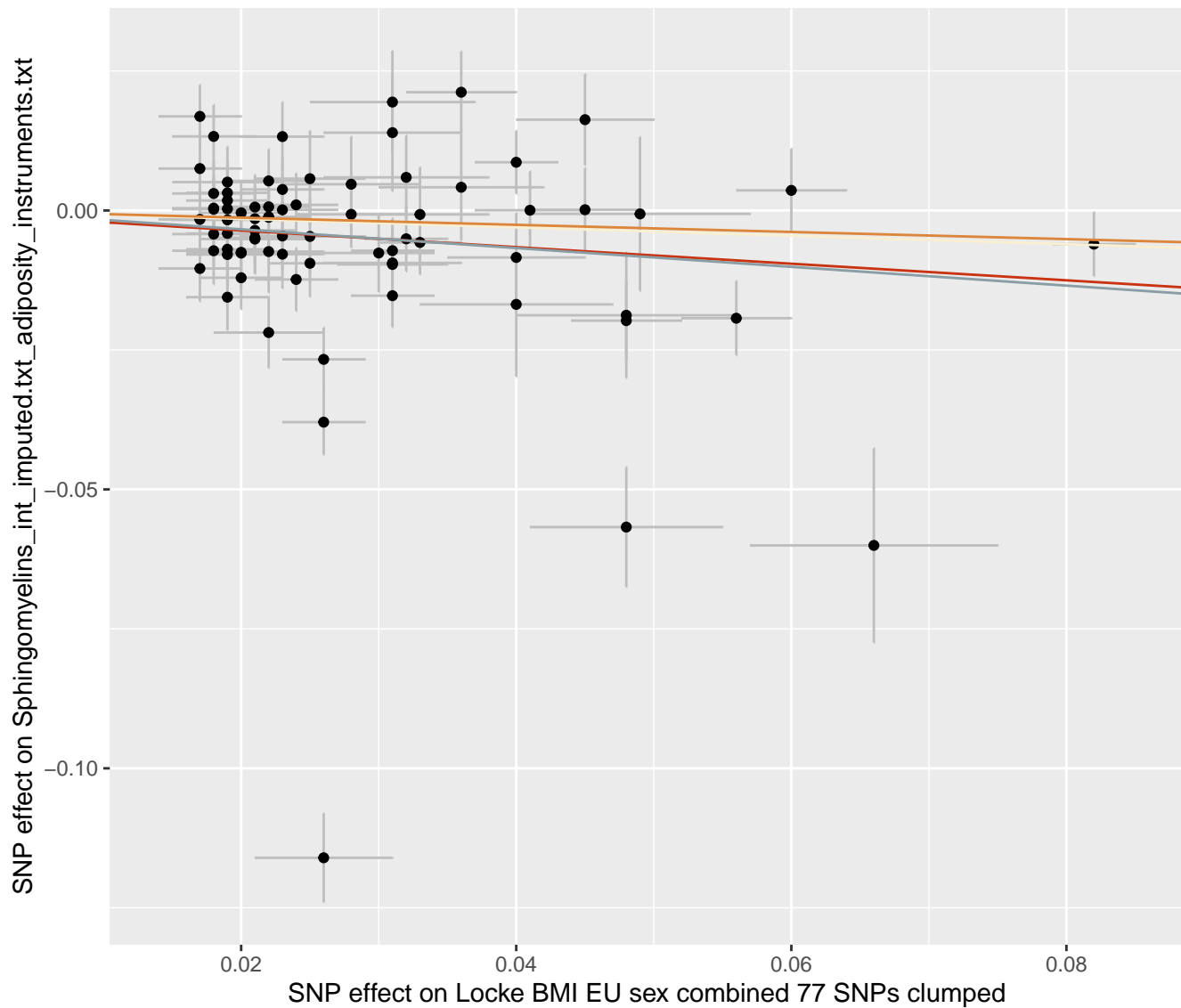
Inverse variance weighted (multiplicative random effects)

MR Egger



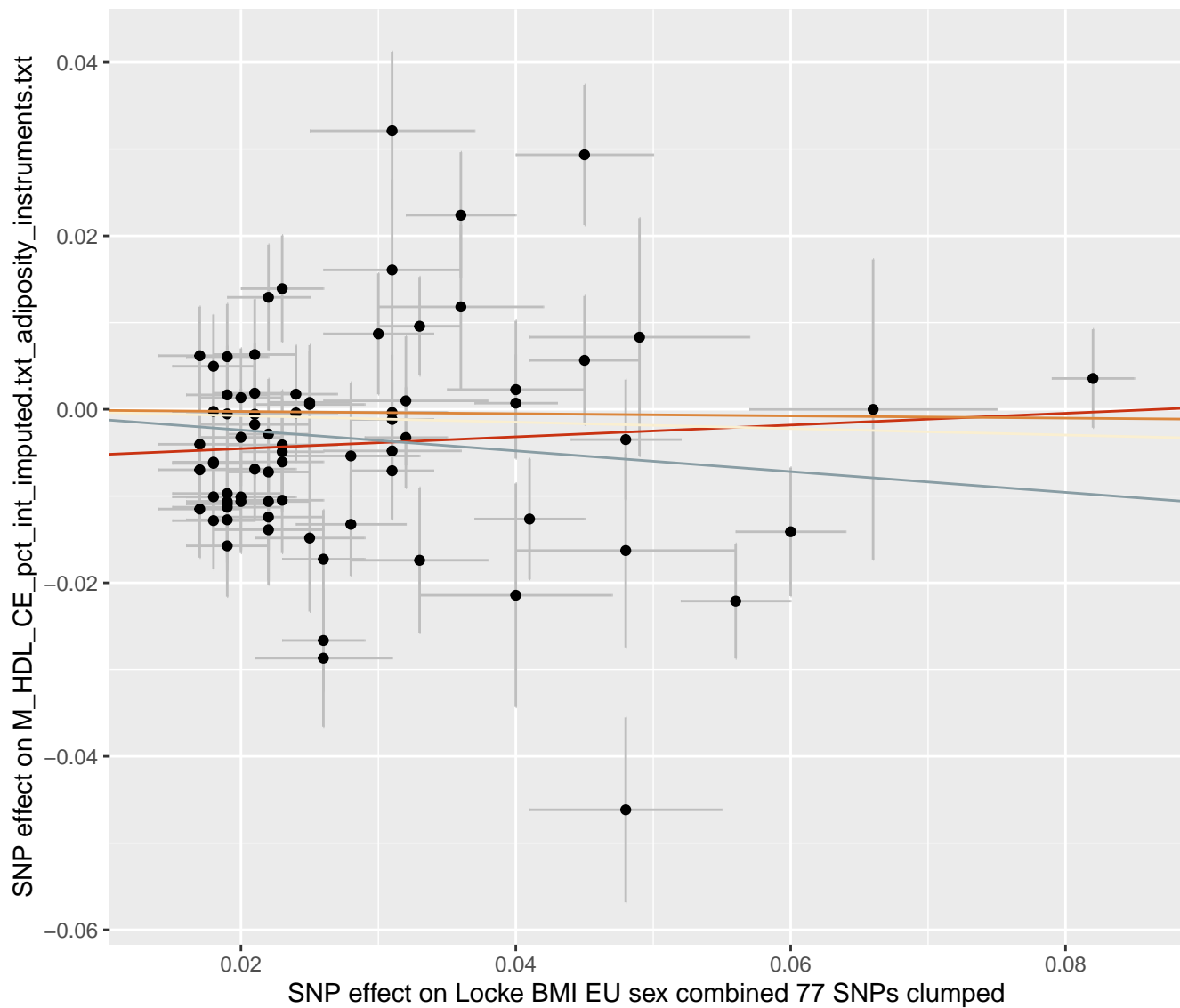
Weighted median

Weighted mode



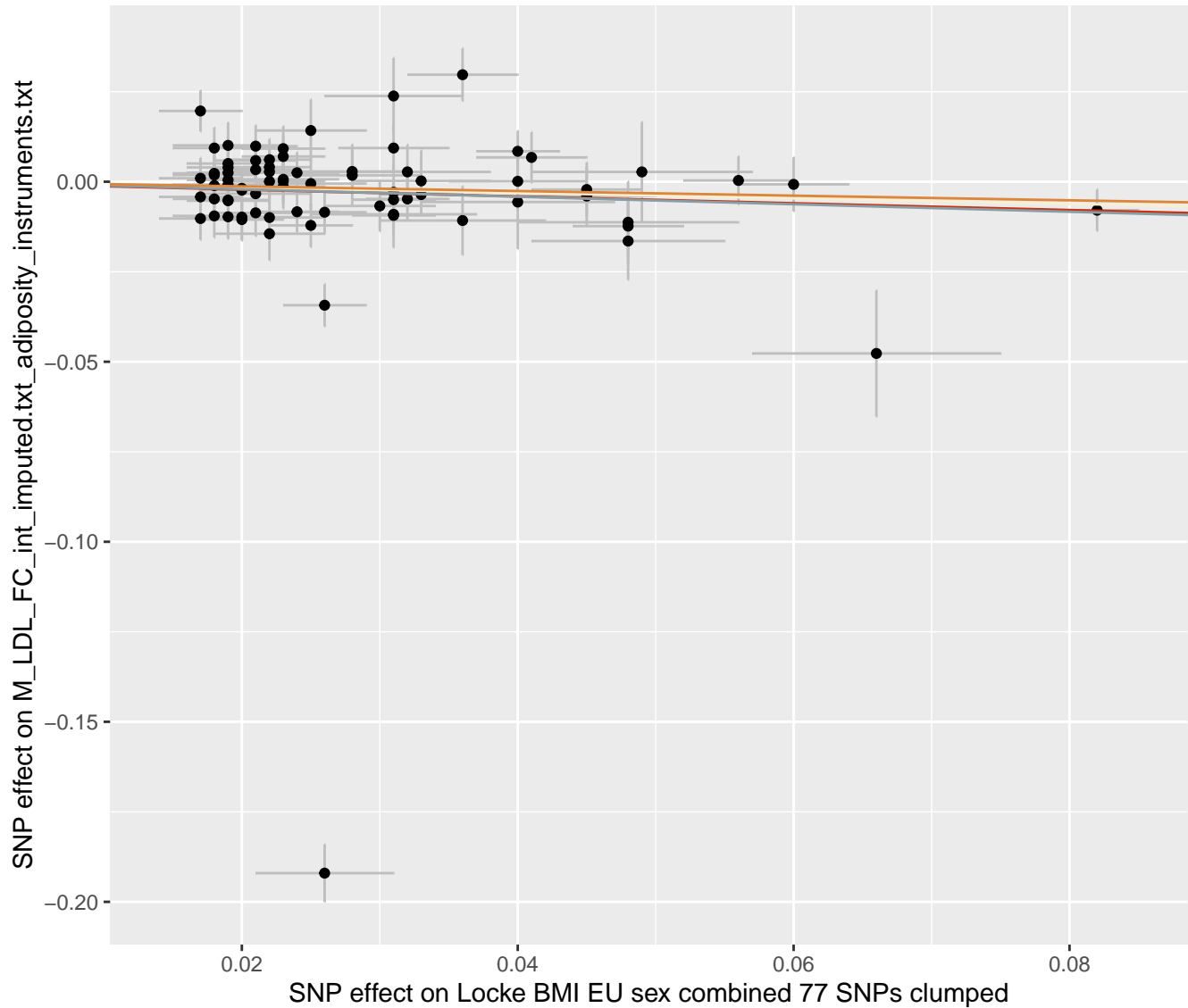
# MR Test

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



# MR Test

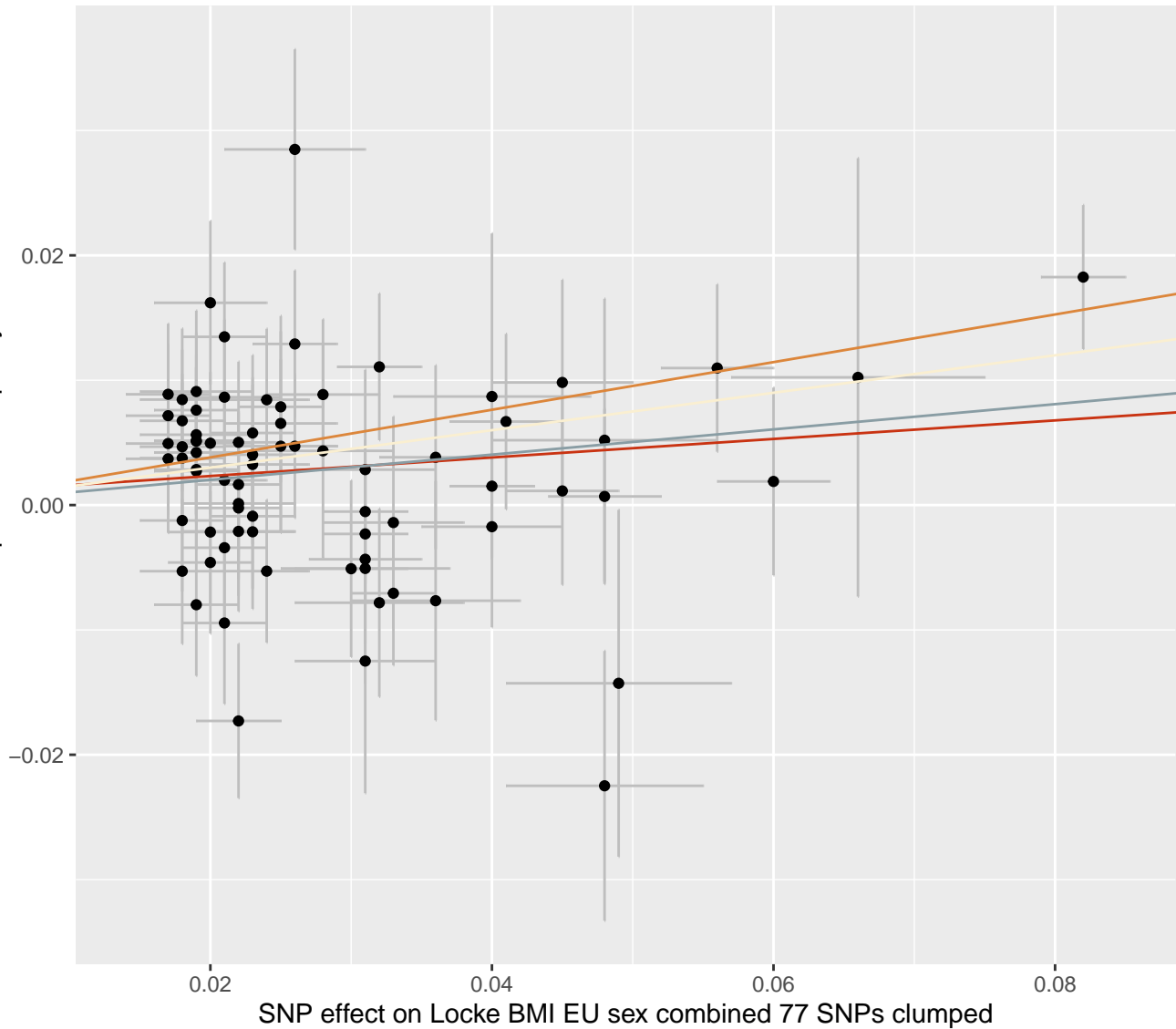
- Inverse variance weighted (multiplicative random effects)
- MR Egger
- Weighted median
- Weighted mode



# MR Test

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

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



SNP effect on Locke BMI EU sex combined 77 SNPs clumped

# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.00

-0.05

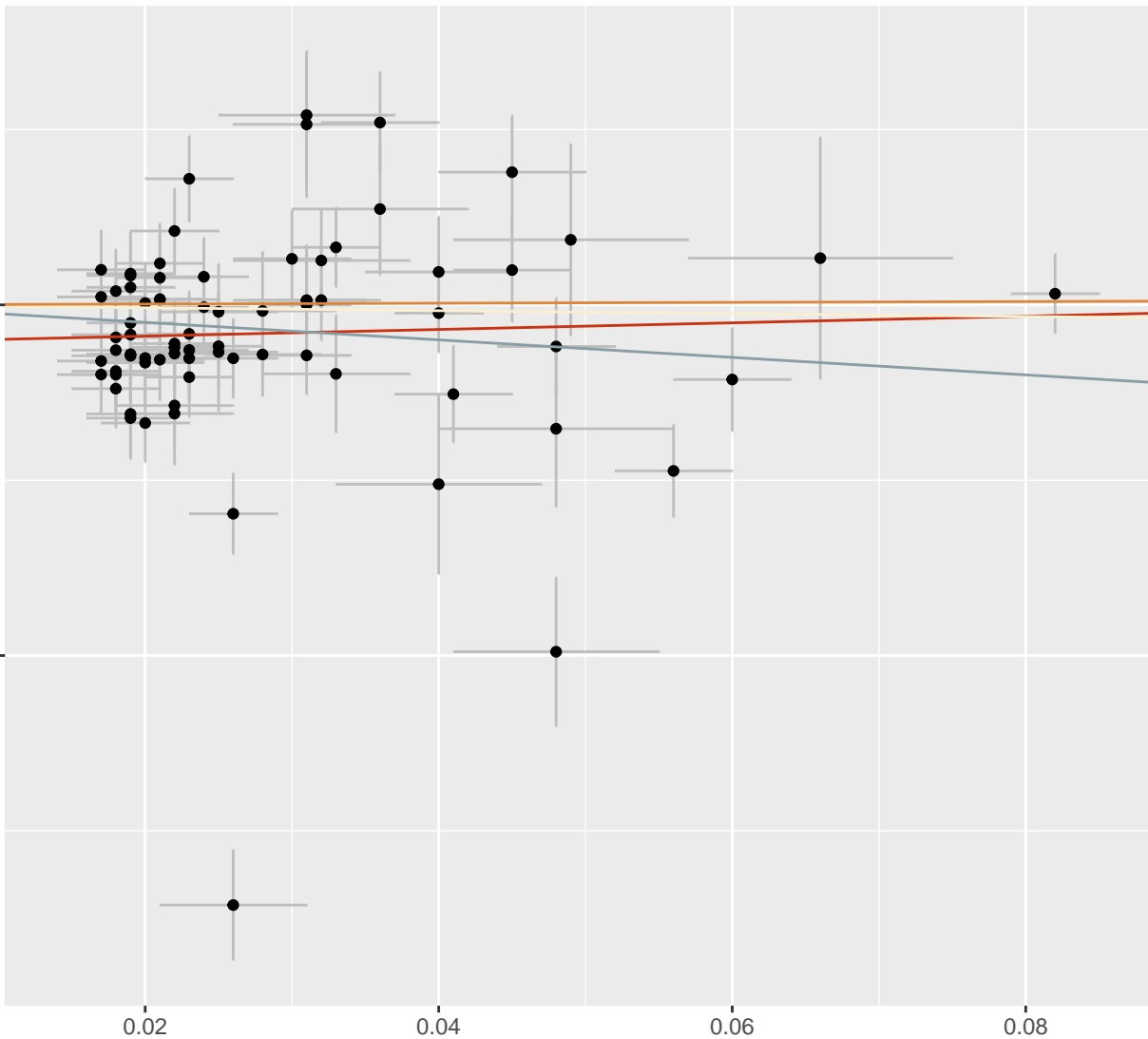
0.02

0.04

0.06

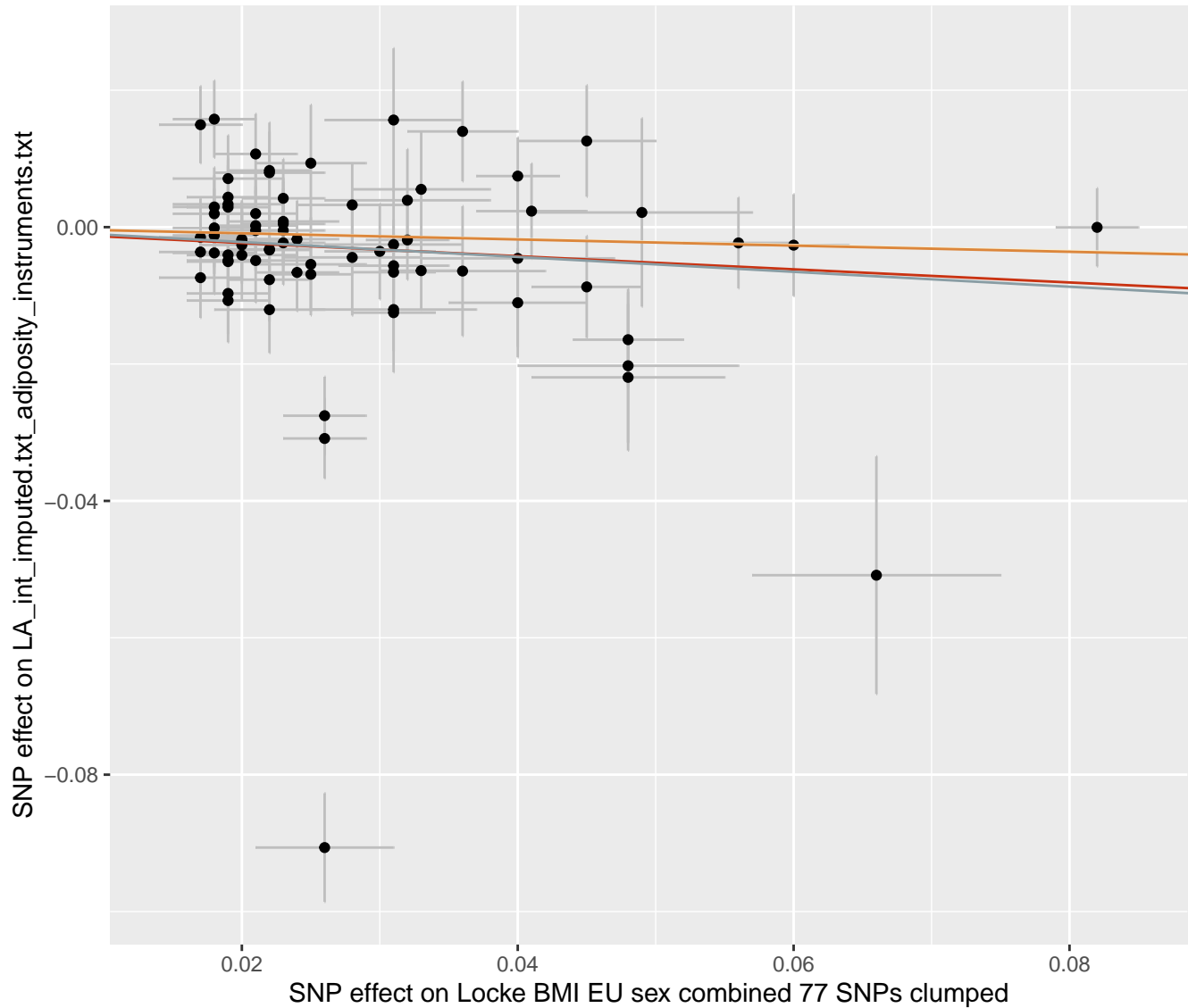
0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test

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



# MR Test



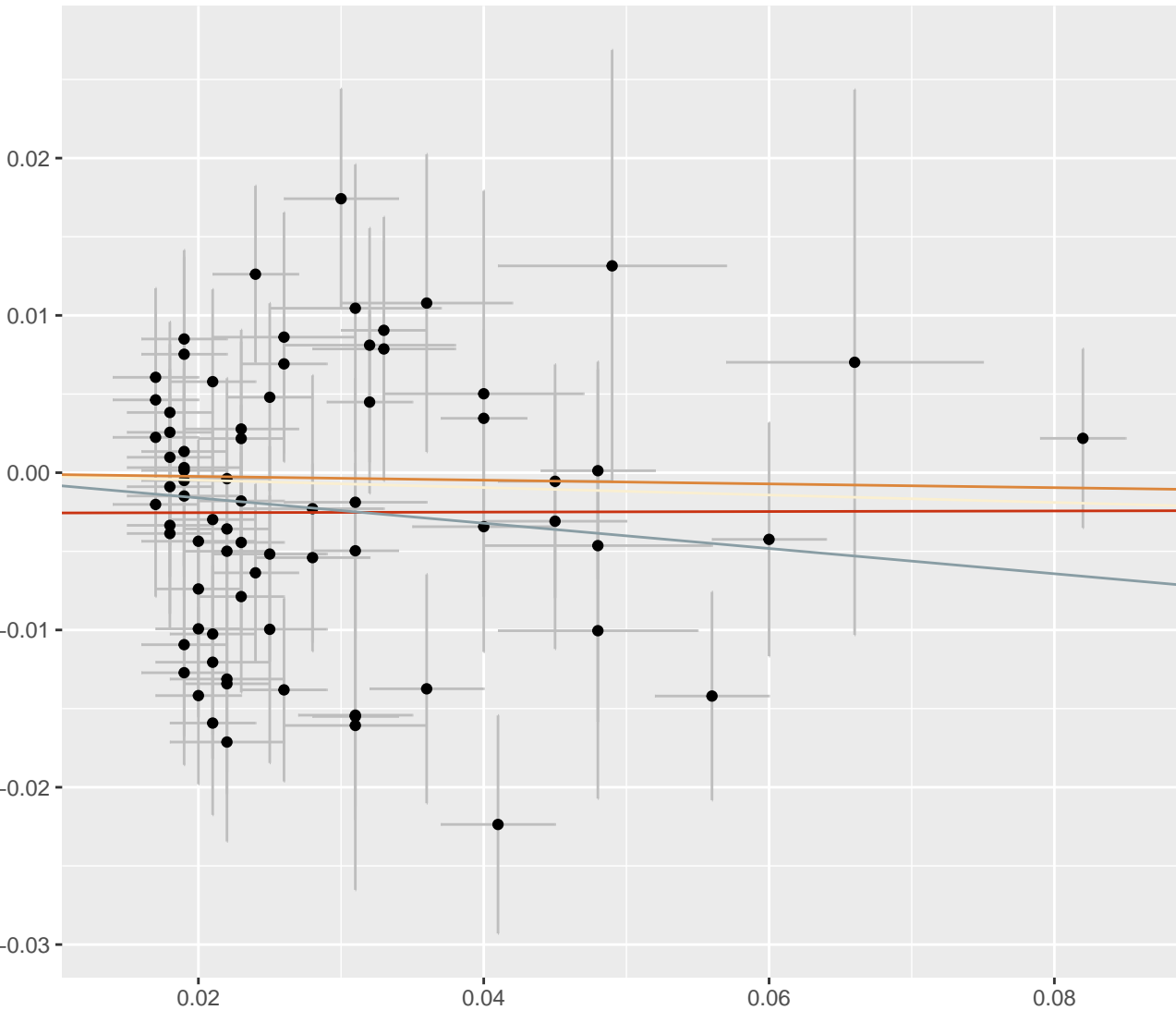
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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



SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test



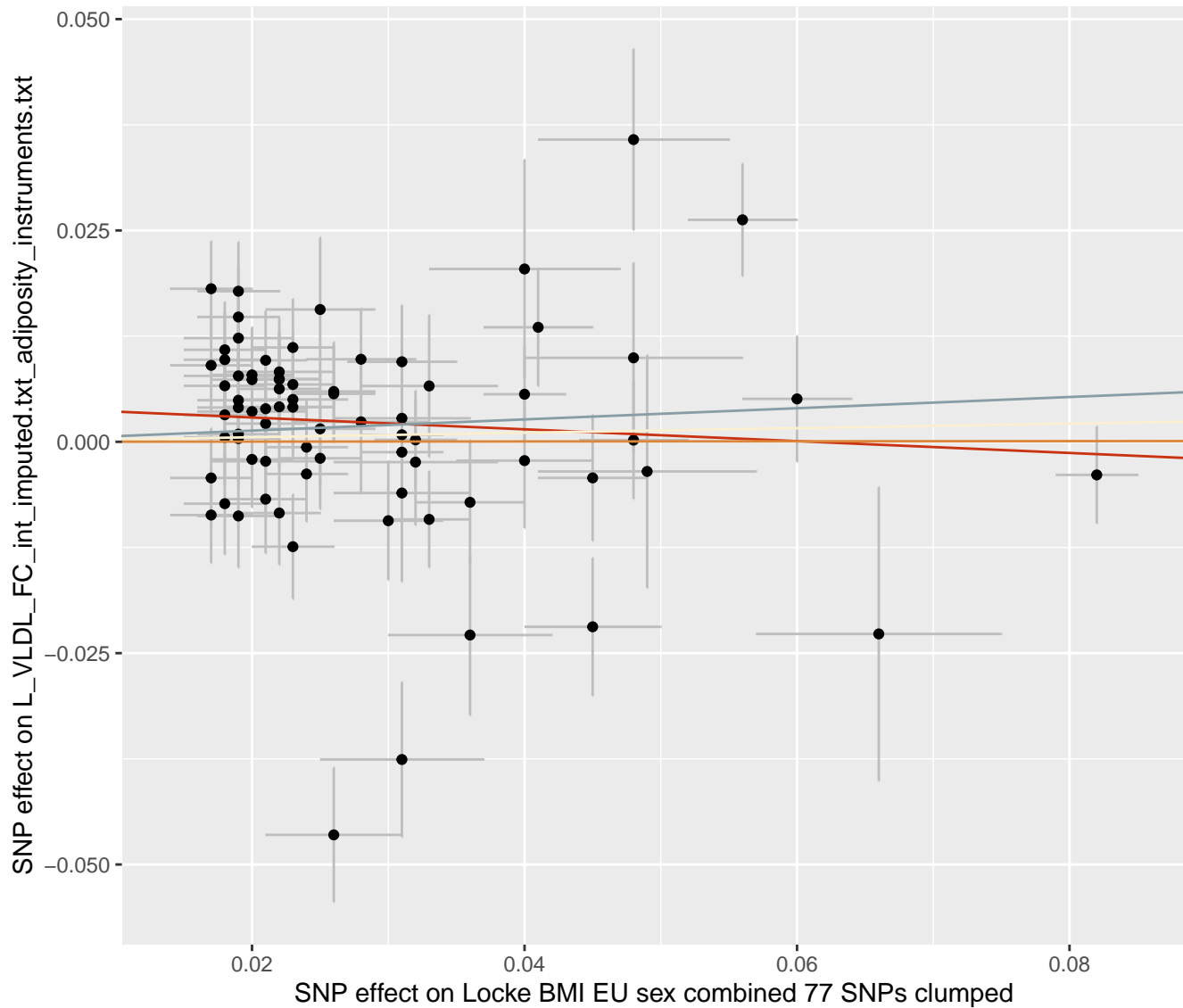
Inverse variance weighted (multiplicative random effects)

MR Egger



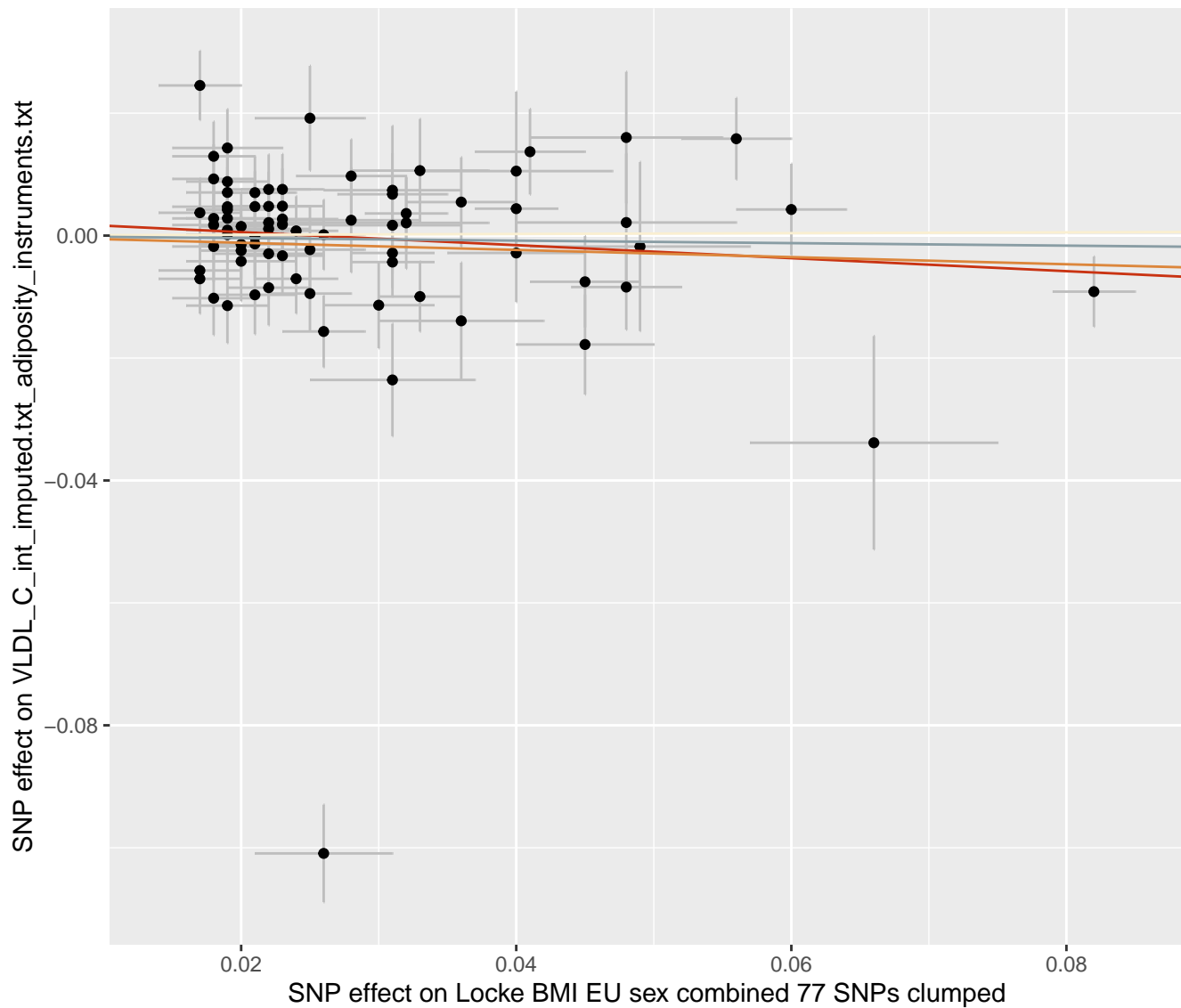
Weighted median

Weighted mode



# MR Test

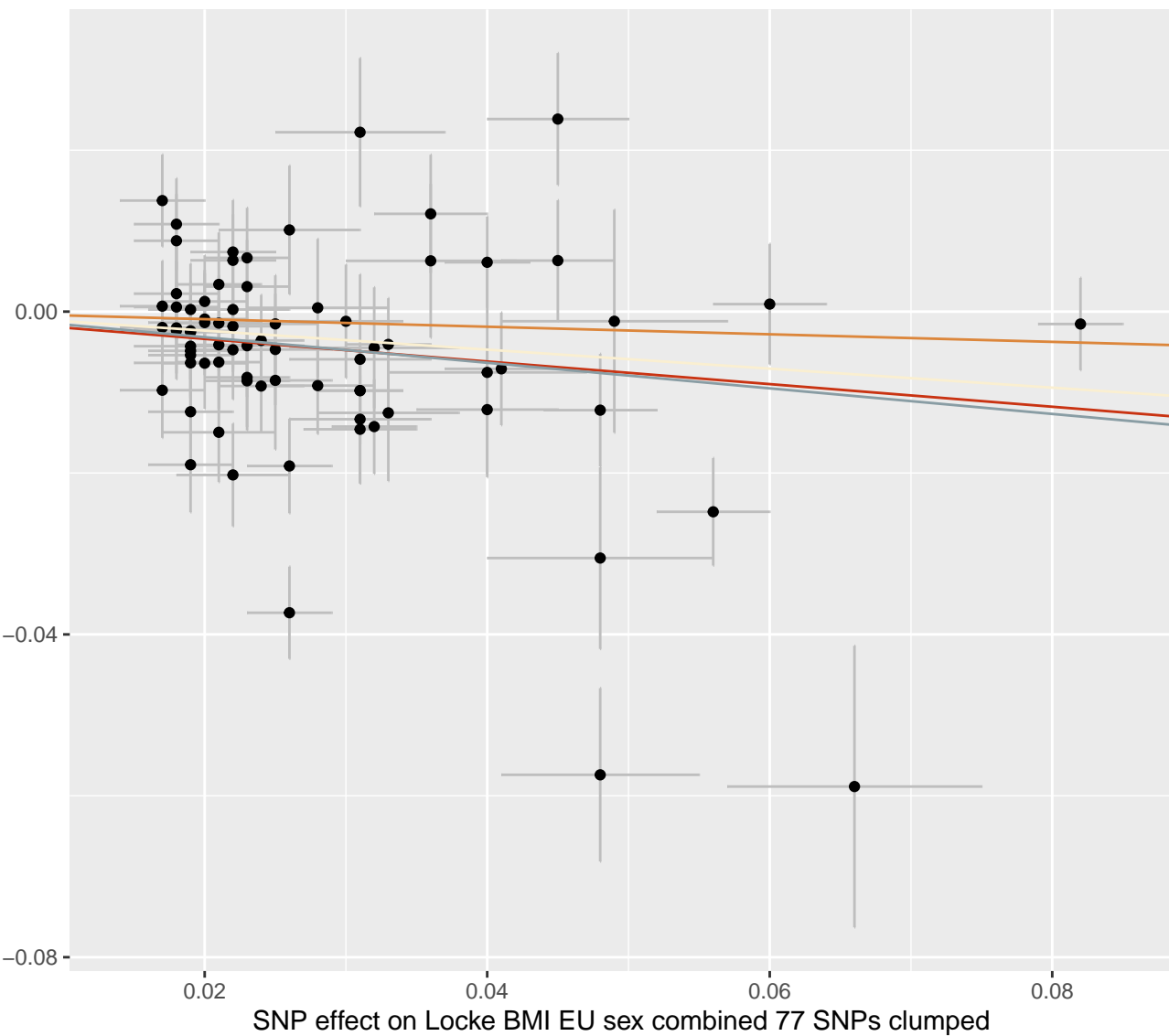
- Inverse variance weighted (multiplicative random effects)
- MR Egger
- Weighted median
- Weighted mode



# MR Test

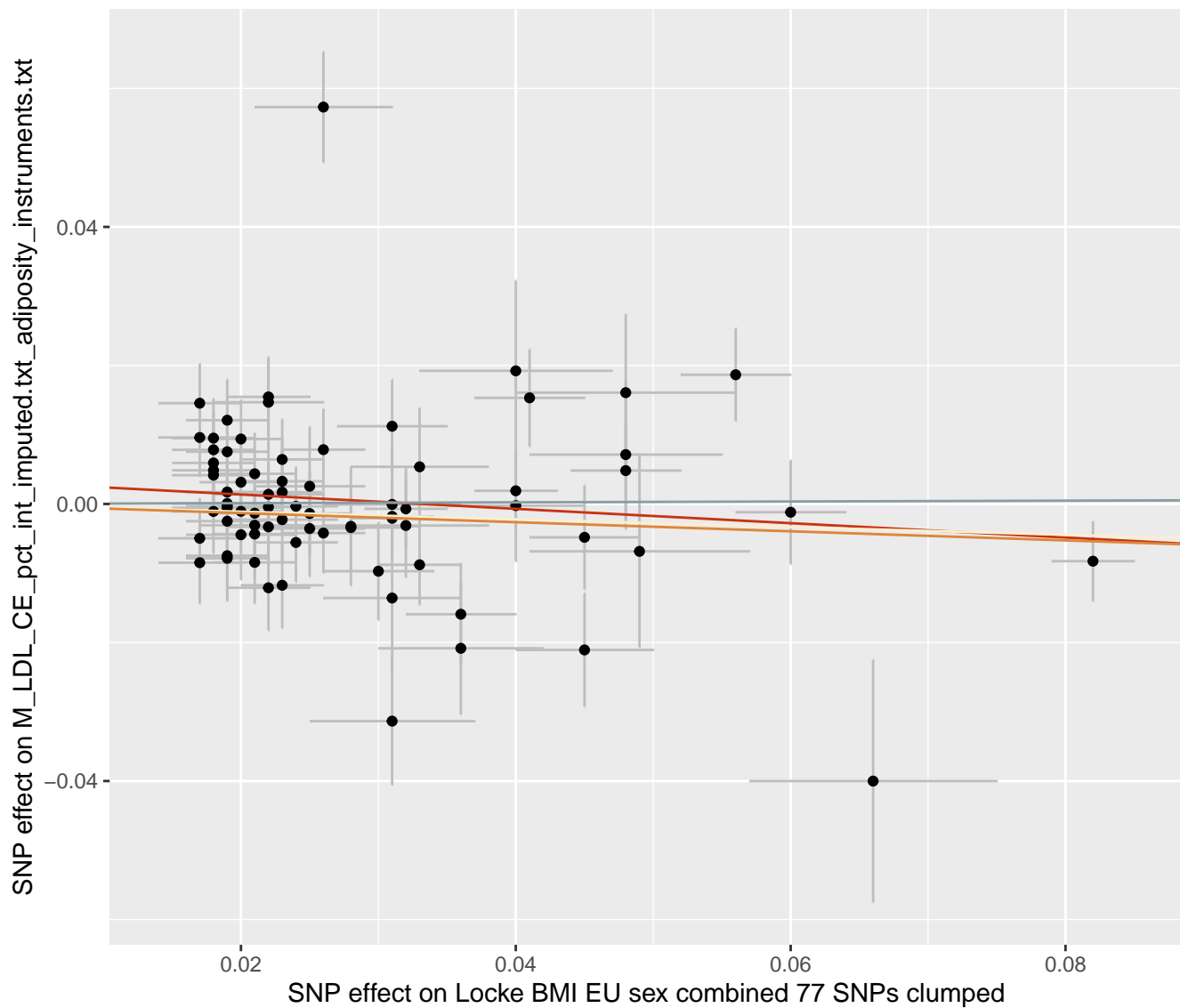
- Inverse variance weighted (multiplicative random effects)
- MR Egger
- Weighted median
- Weighted mode

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



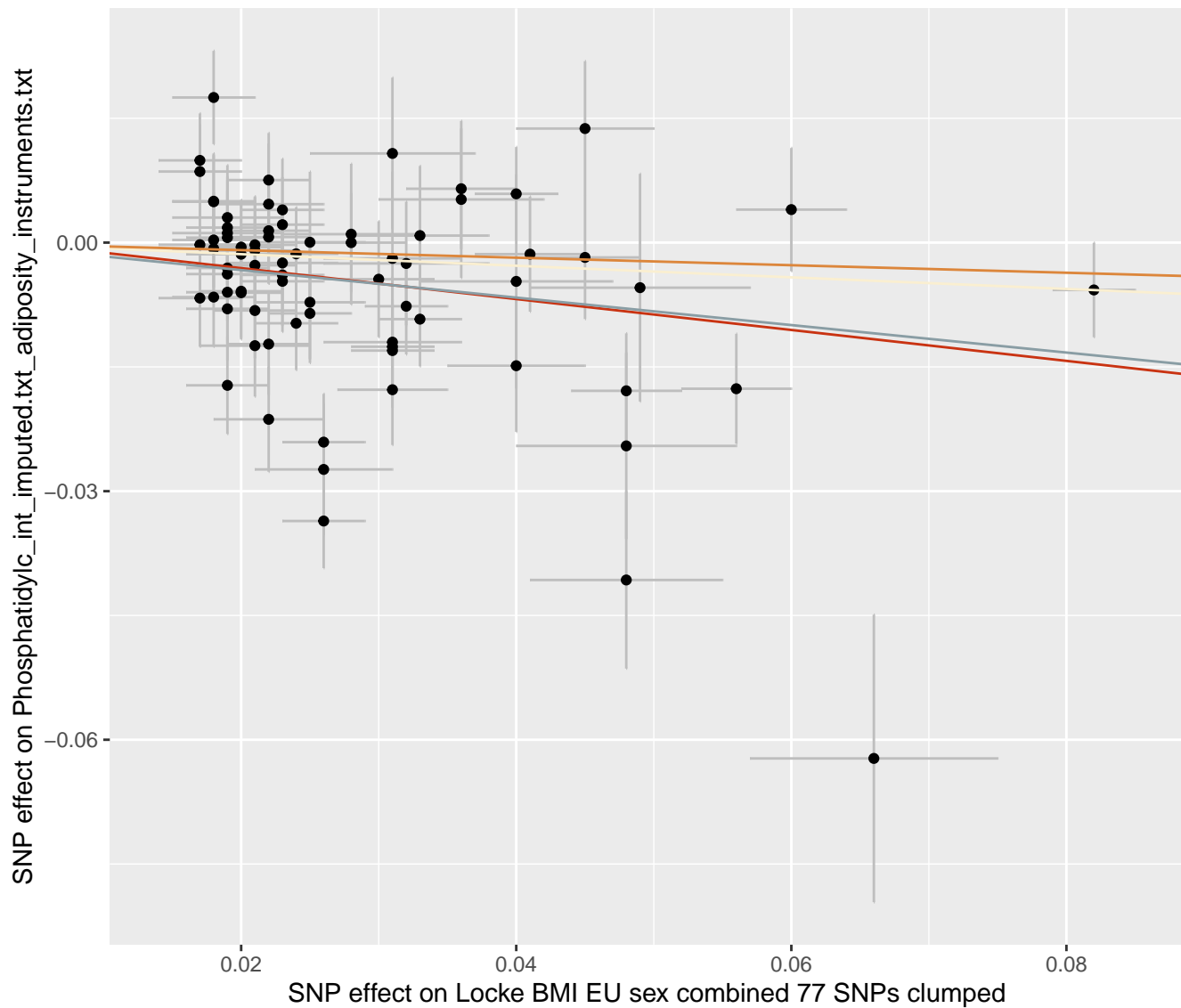
# MR Test

- 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



# MR Test



Inverse variance weighted (multiplicative random effects)

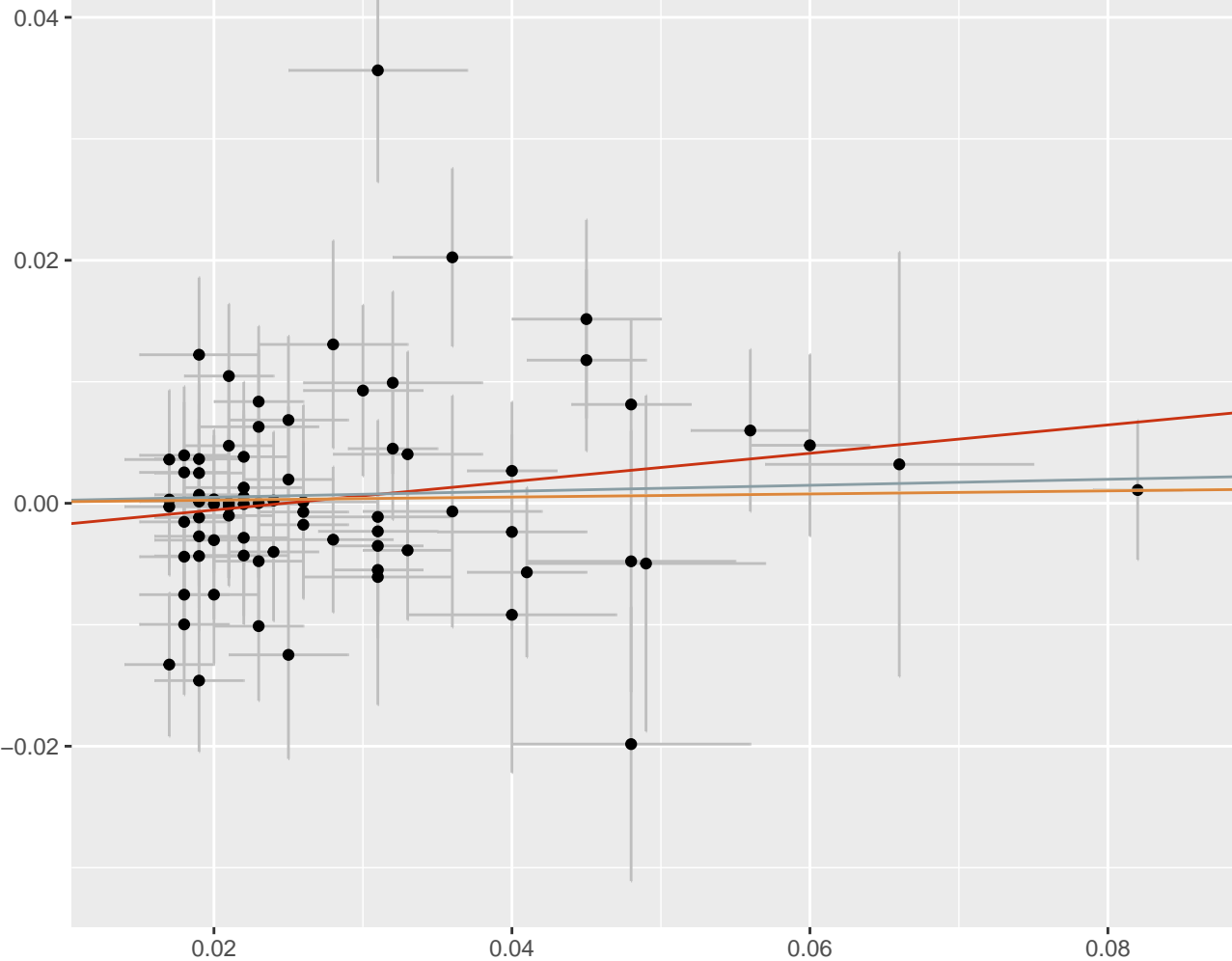
MR Egger



Weighted median

Weighted mode

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



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.025

0.000

-0.025

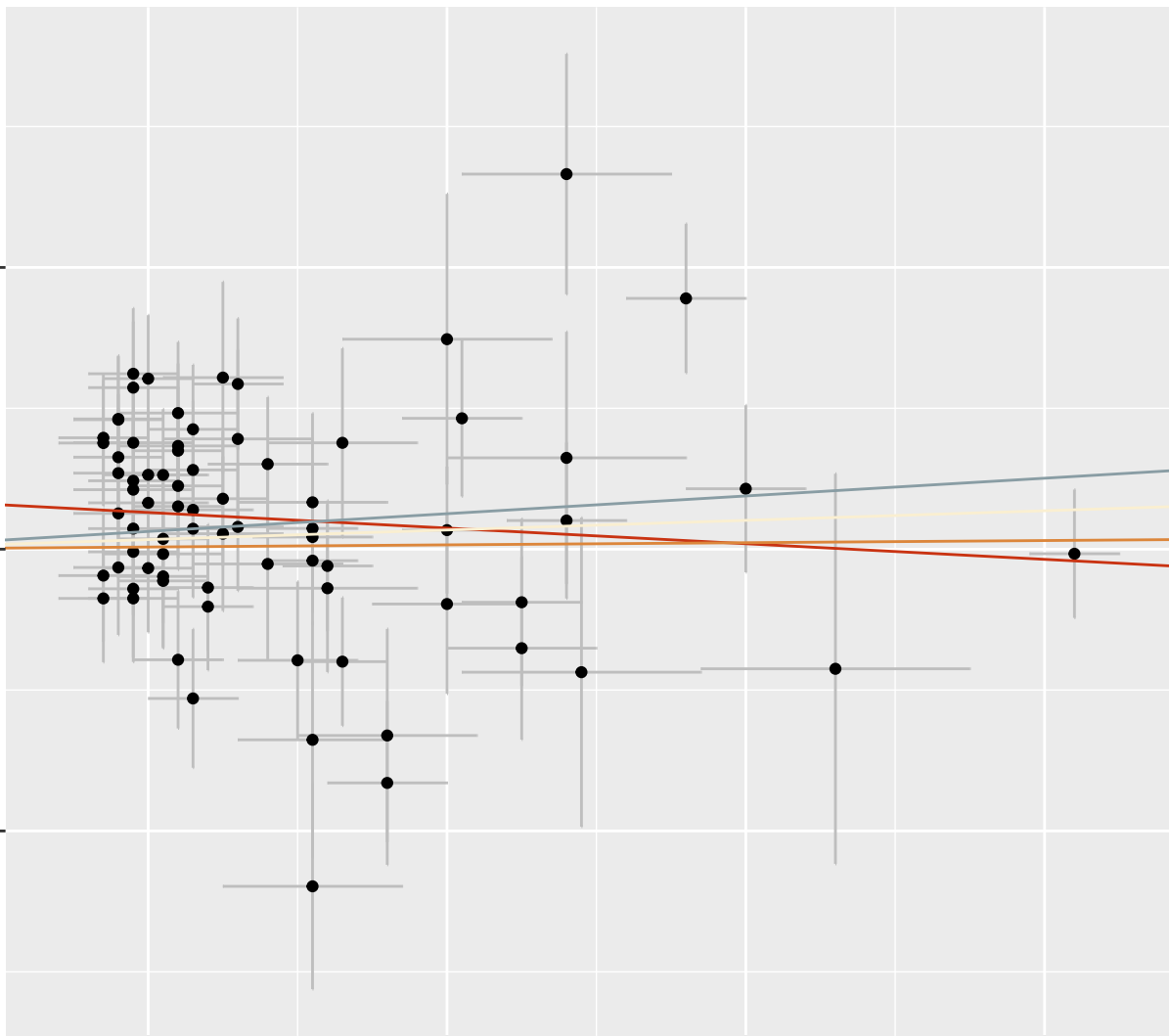
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# 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

0.00

-0.05

-0.10

-0.15

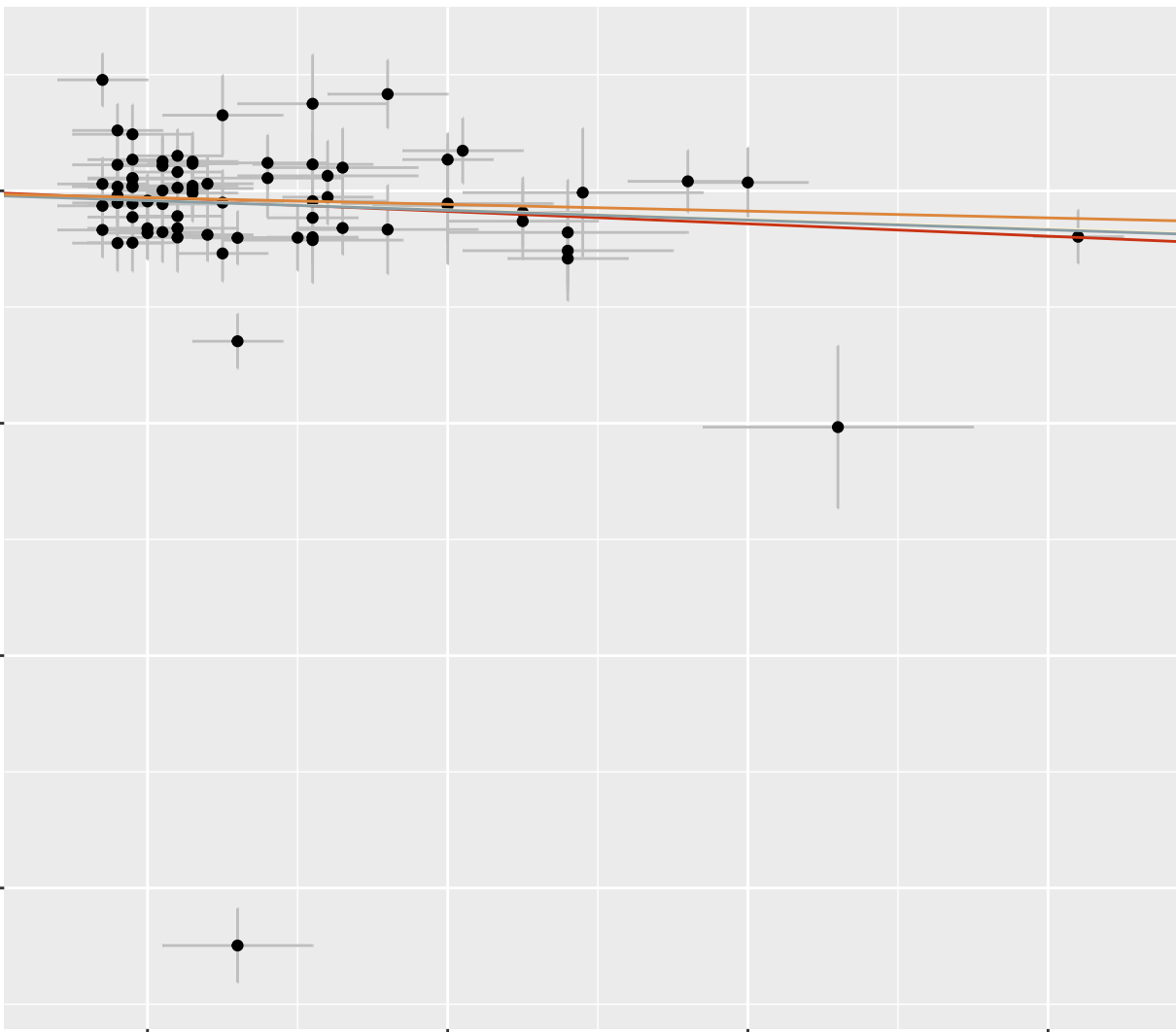
0.02

0.04

0.06

0.08

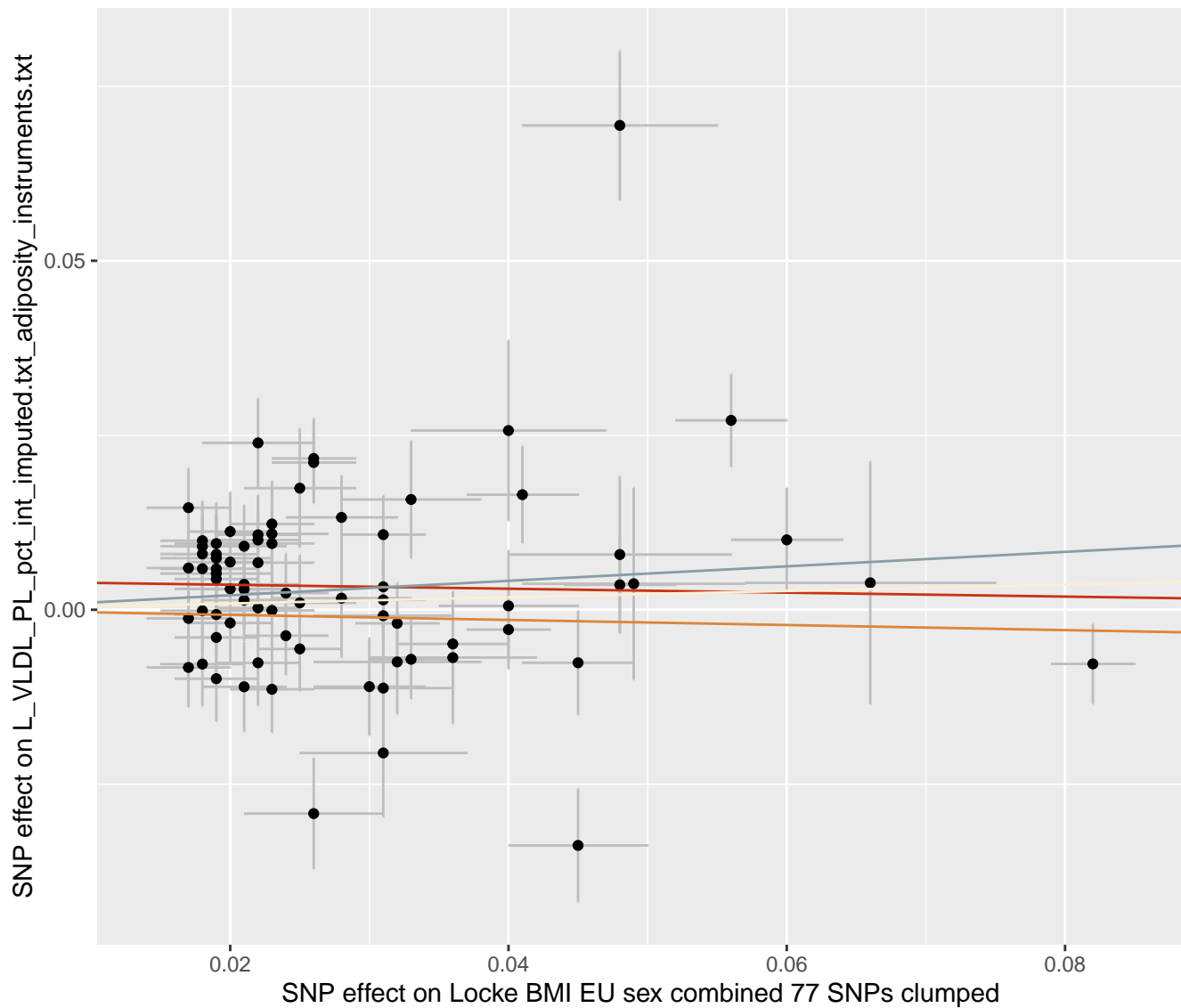
SNP effect on Locke BMI EU sex combined 77 SNPs clumped





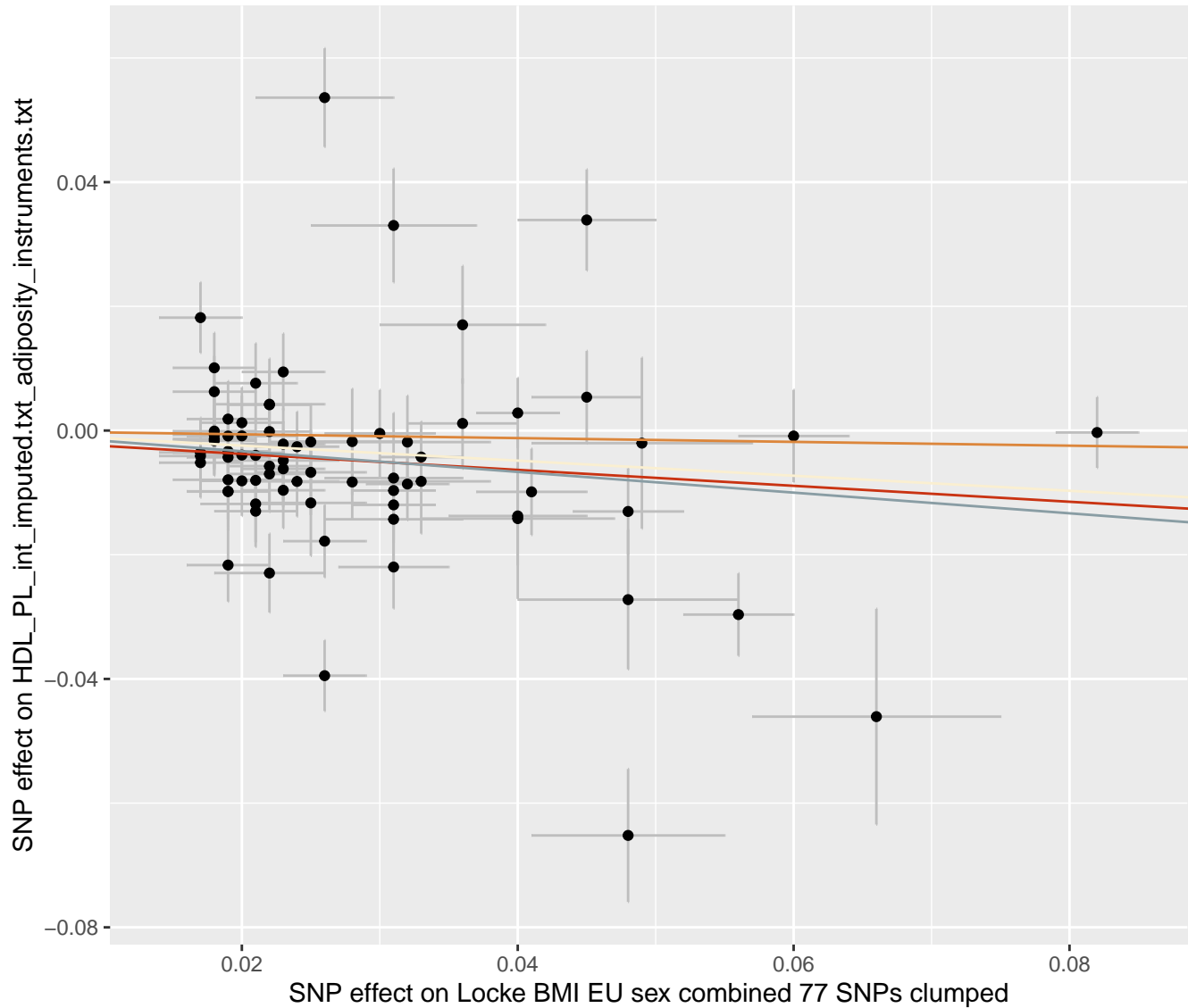
# MR Test

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



# MR Test

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



# MR Test

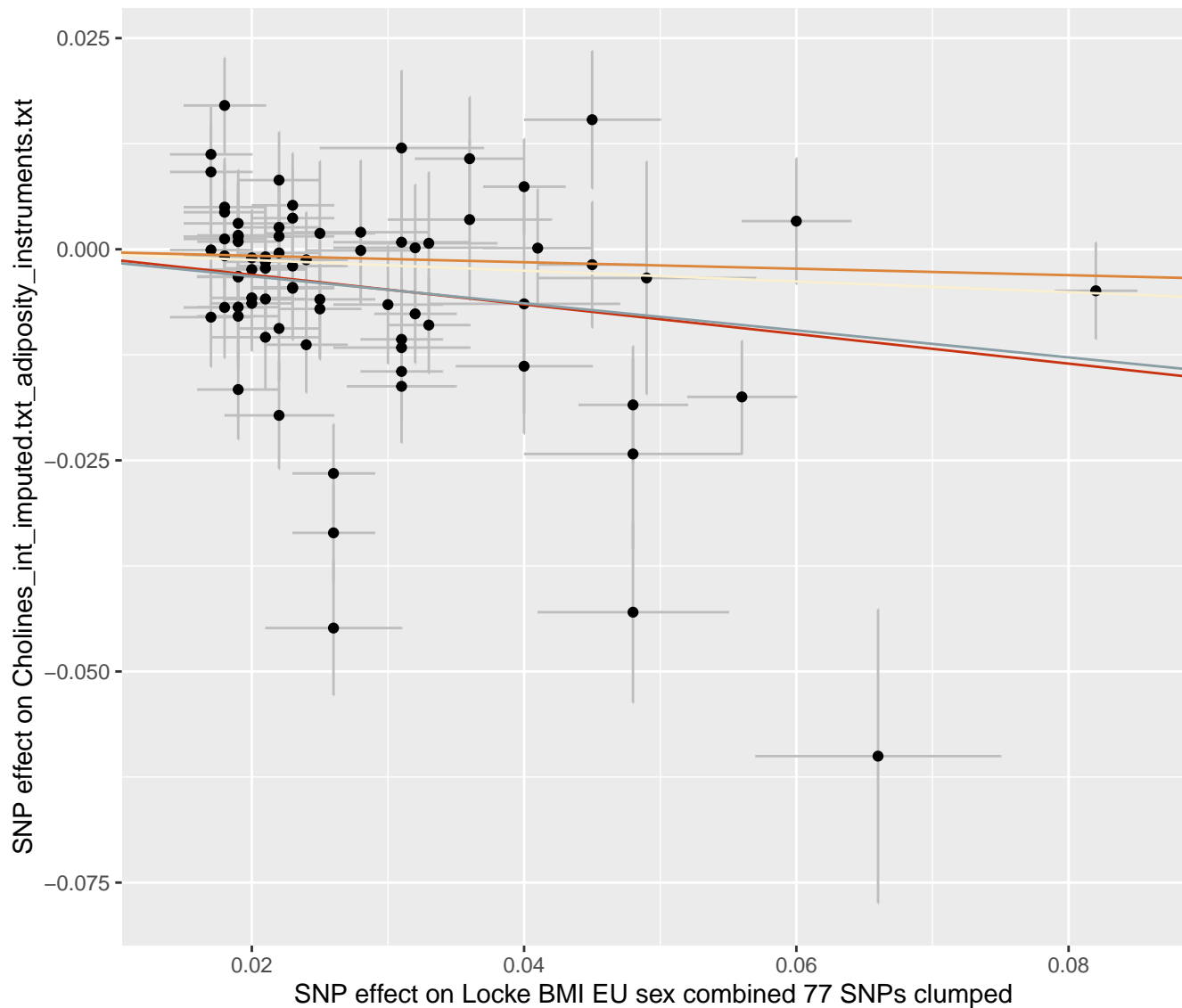


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test



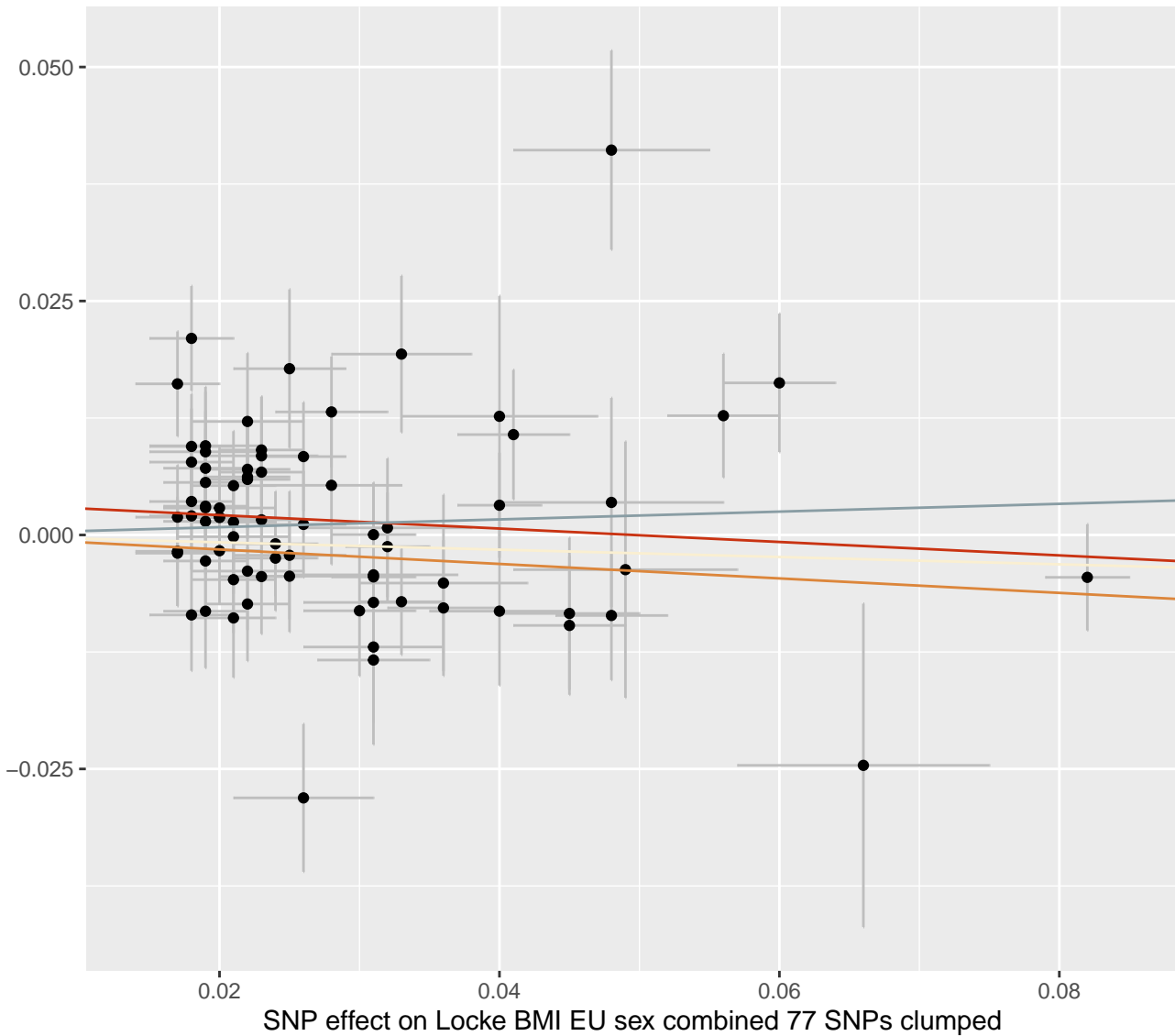
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.02  
0.01  
0.00  
-0.01  
-0.02  
-0.03

SNP effect on Locke BMI EU sex combined 77 SNPs clumped

0.02

0.04

0.06

0.08

# MR Test

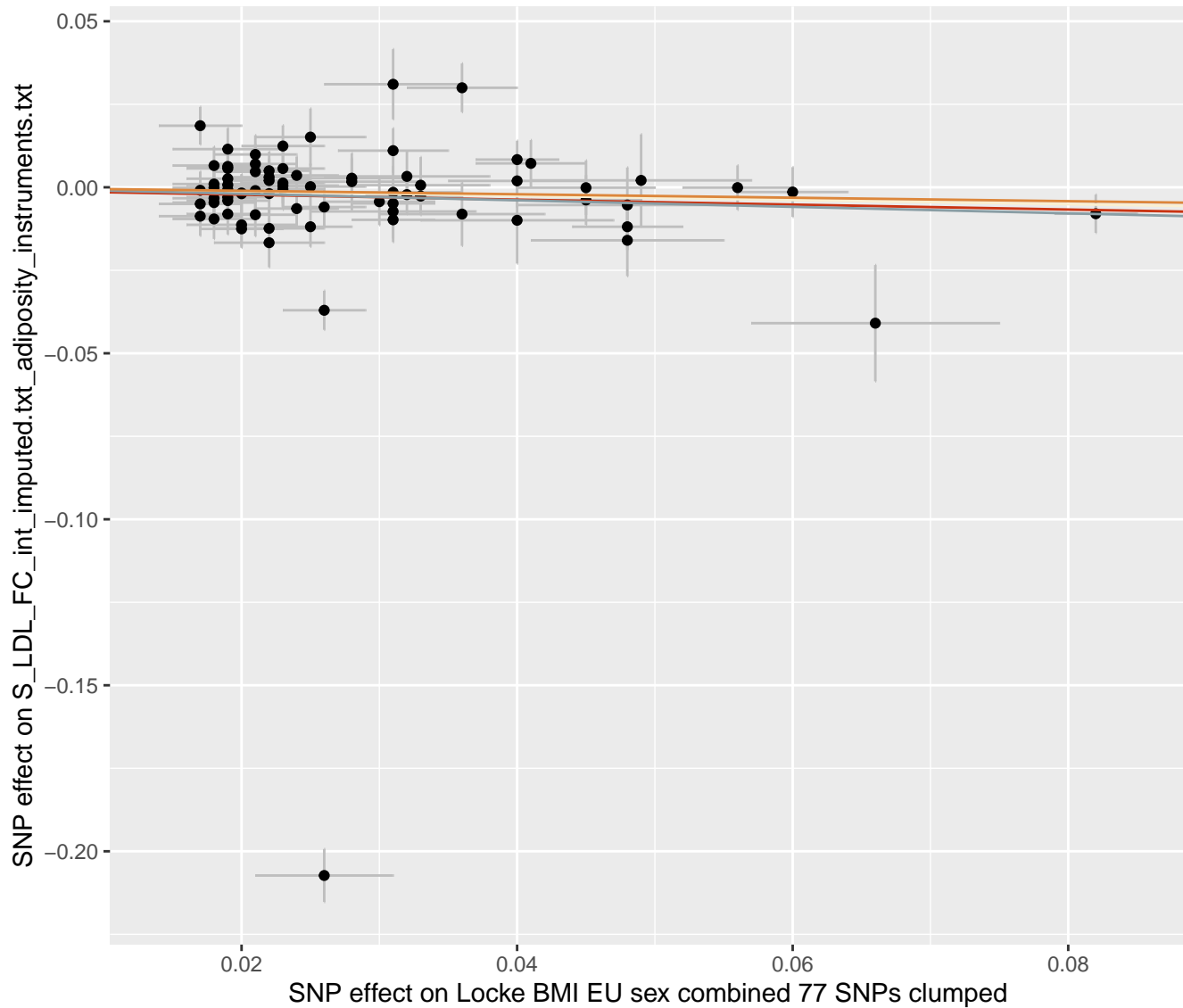


Inverse variance weighted (multiplicative random effects)

MR Egger

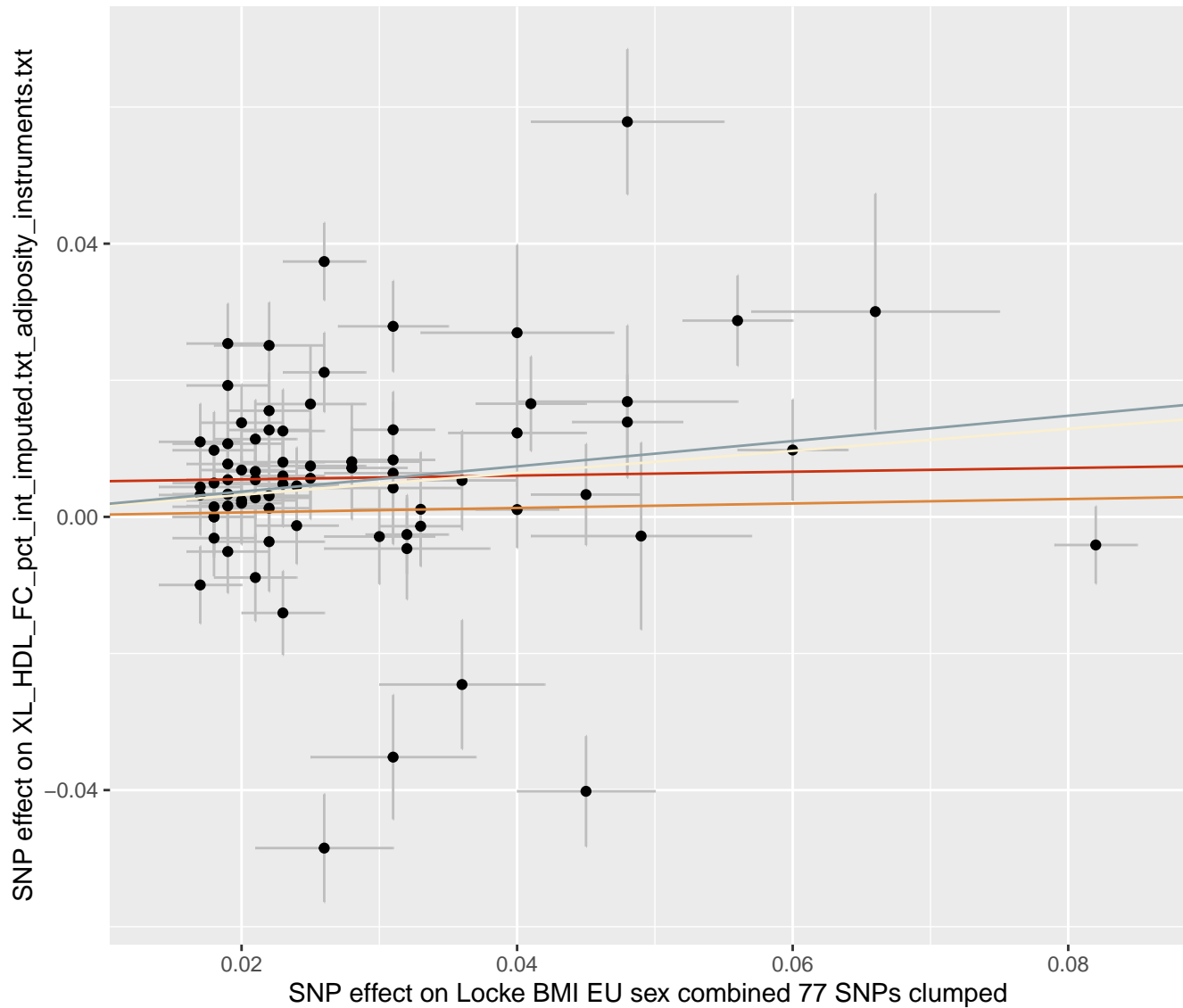
Weighted median

Weighted mode



# MR Test

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



# MR Test



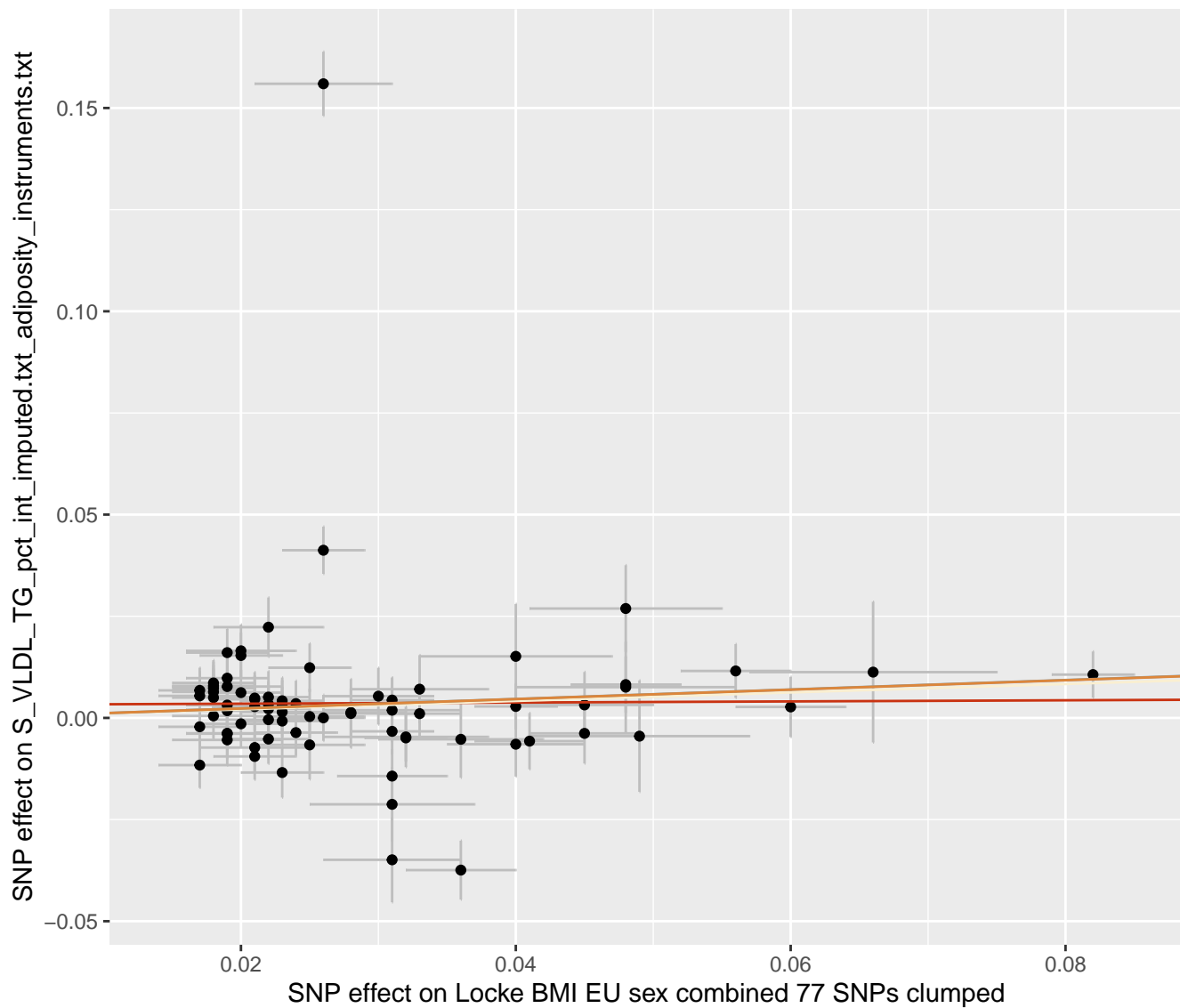
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode





# MR Test



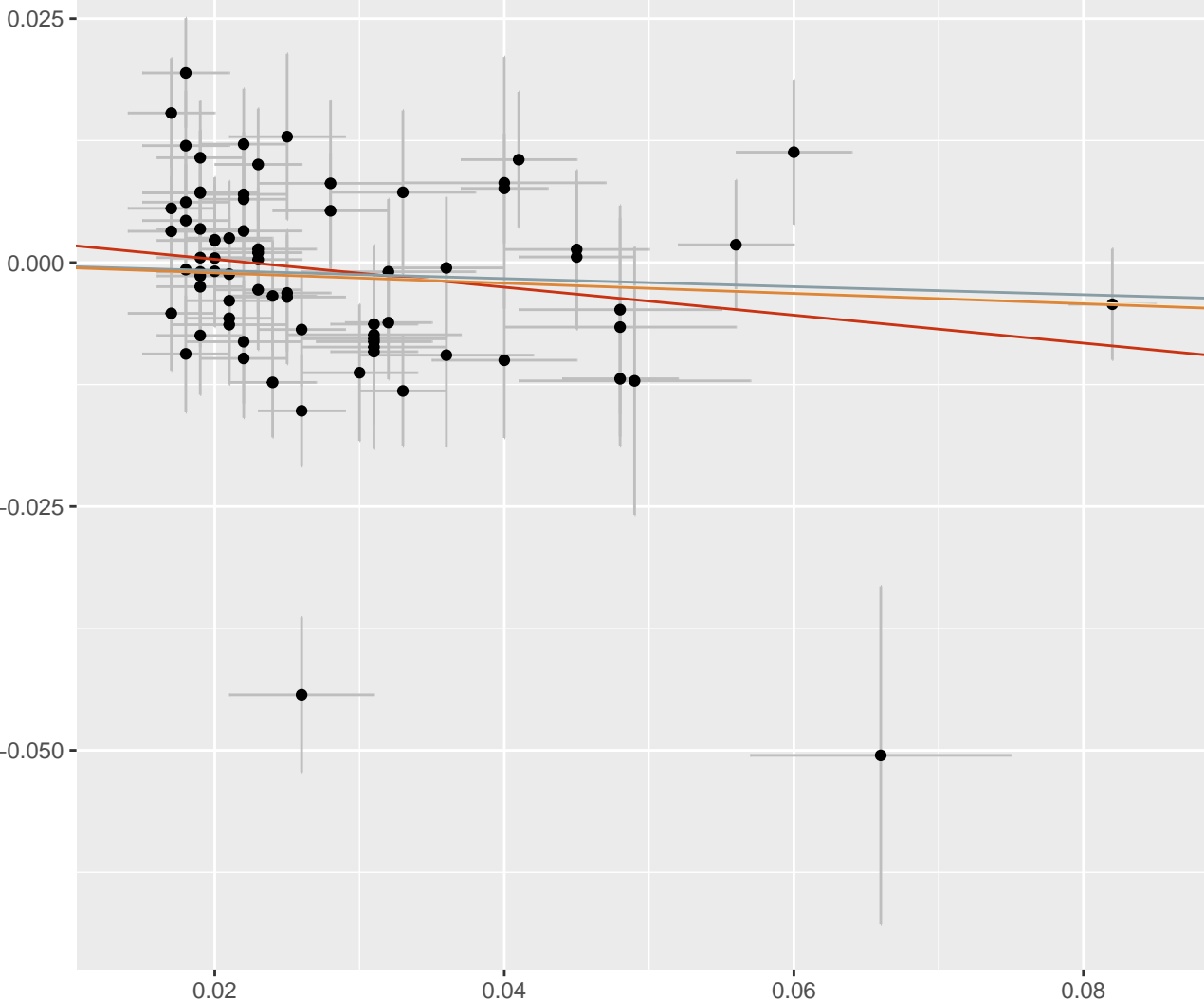
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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



SNP effect on Locke BMI EU sex combined 77 SNPs clumped

# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode

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

0.025  
0.000  
-0.025  
-0.050

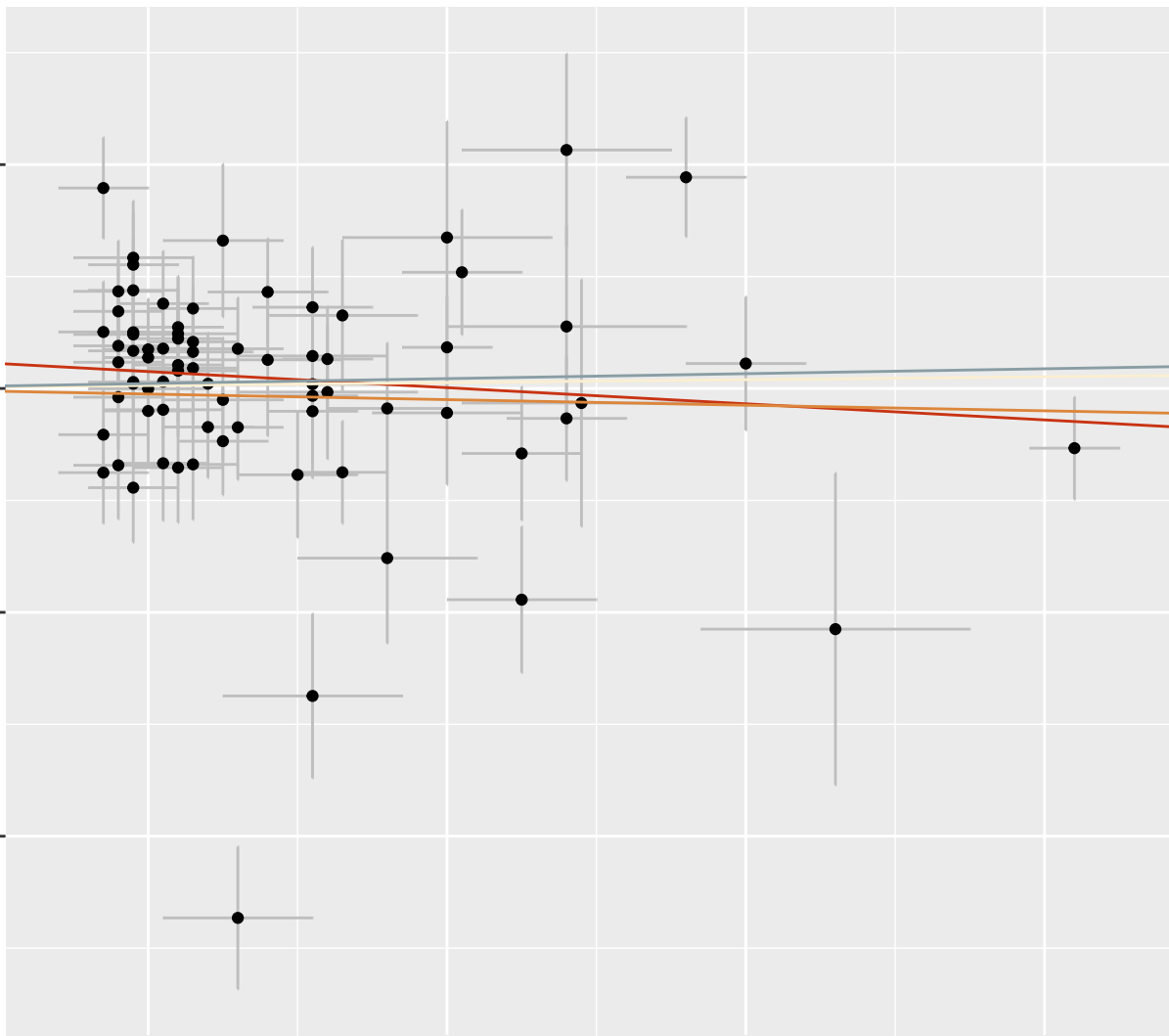
0.02

0.04

0.06

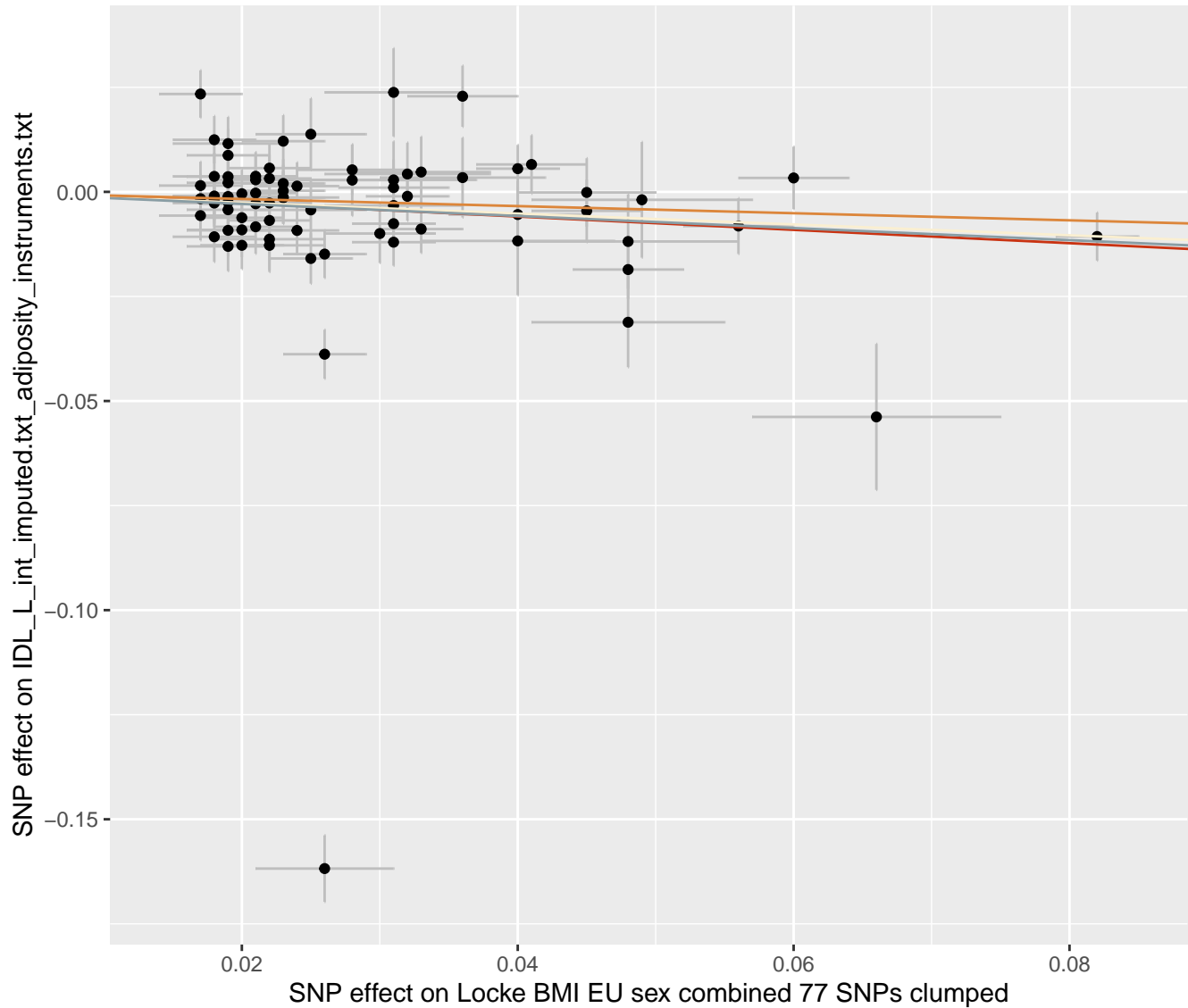
0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test

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



# MR Test

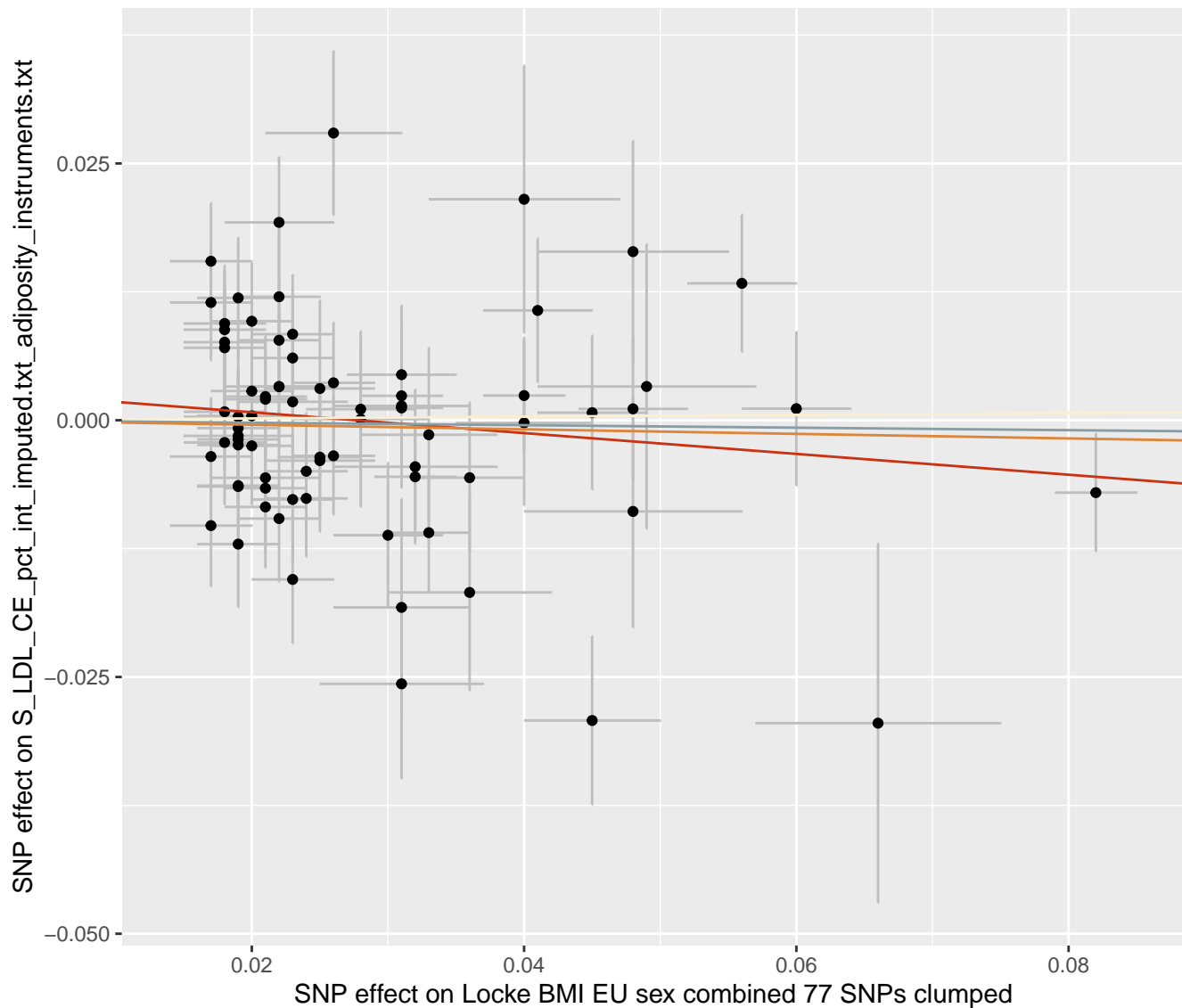


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode

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

0.050  
0.025  
0.000  
-0.025  
-0.050

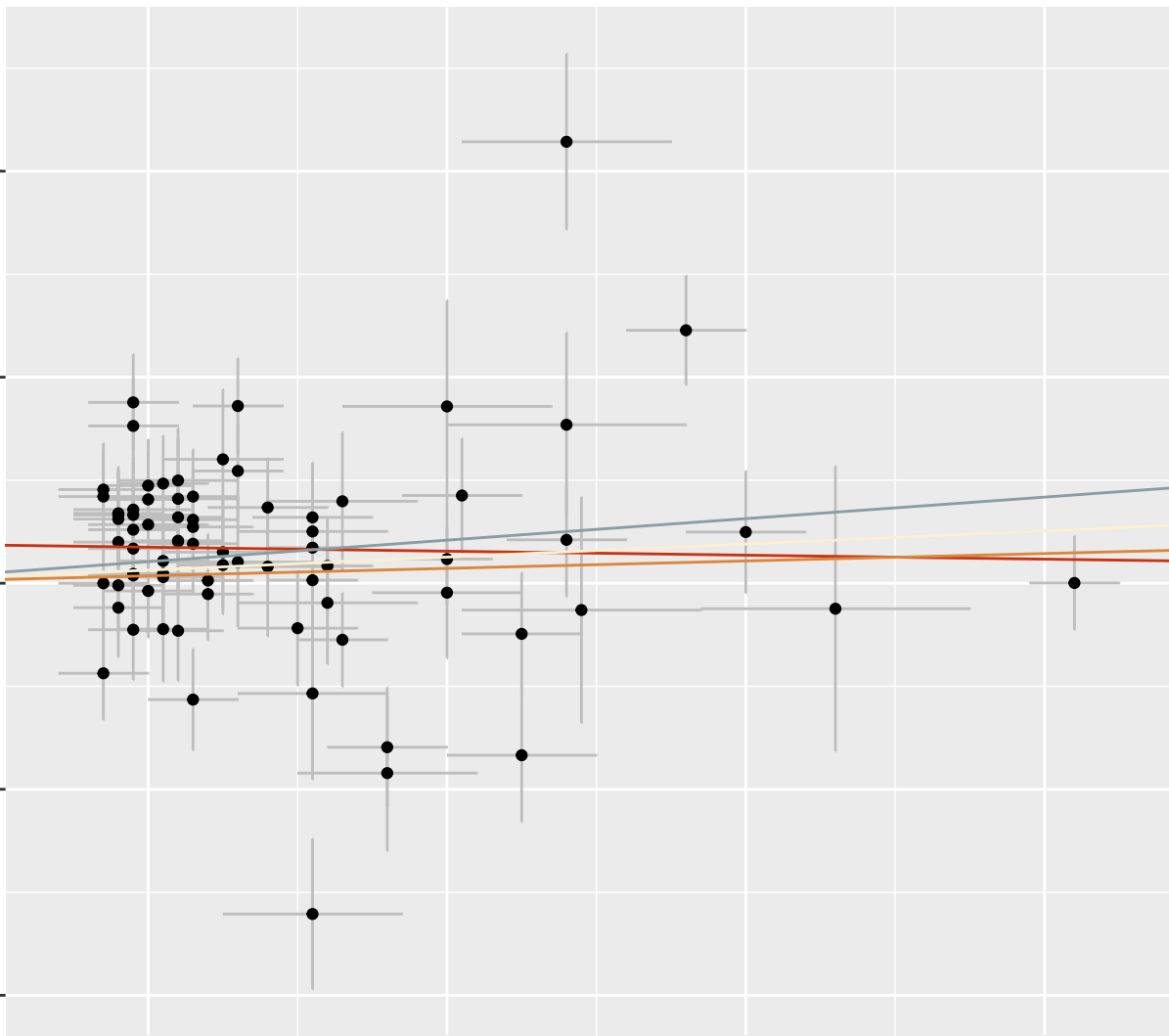
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.025

0.000

-0.025

-0.050

-0.075

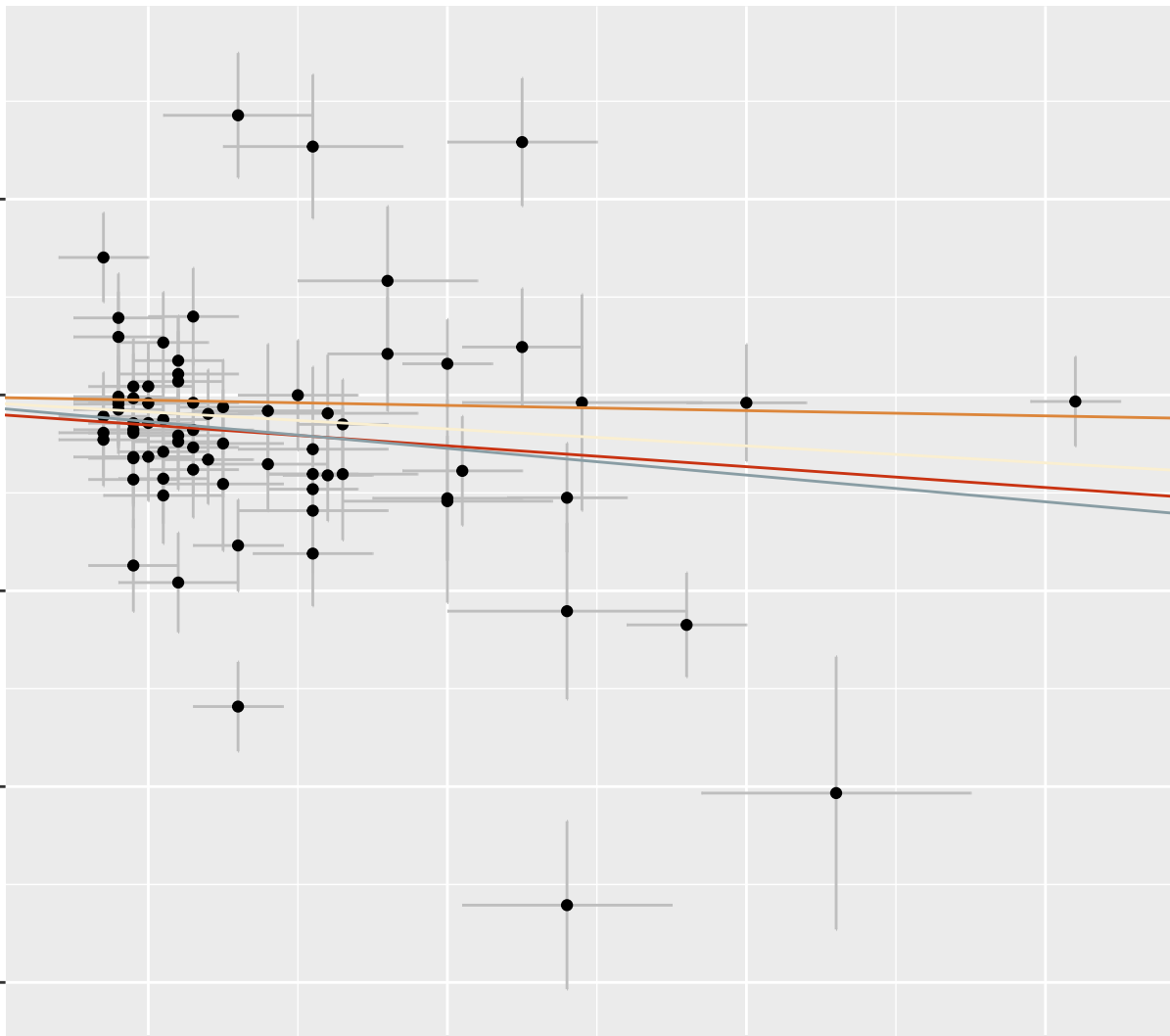
0.02

0.04

0.06

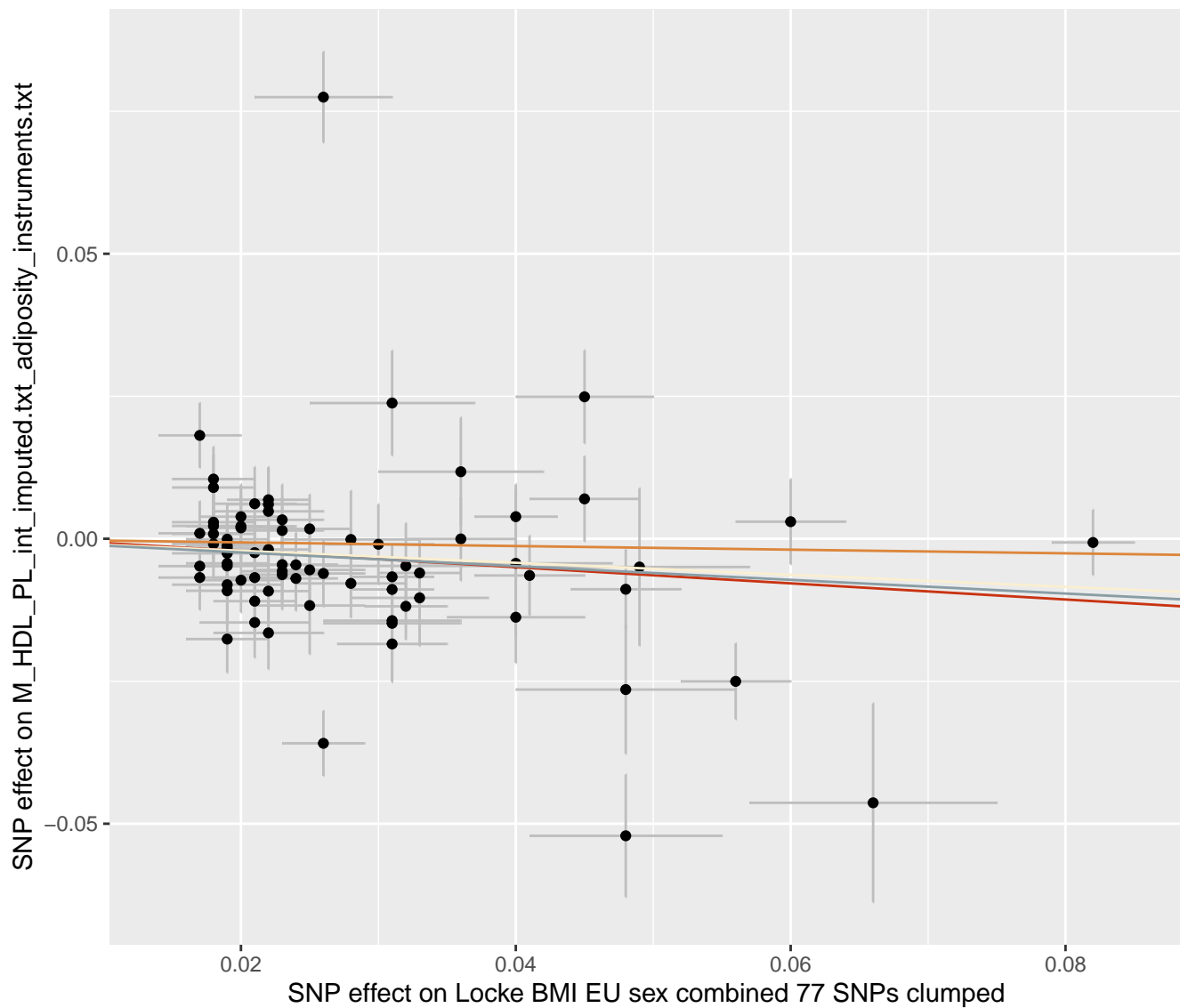
0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test

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



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

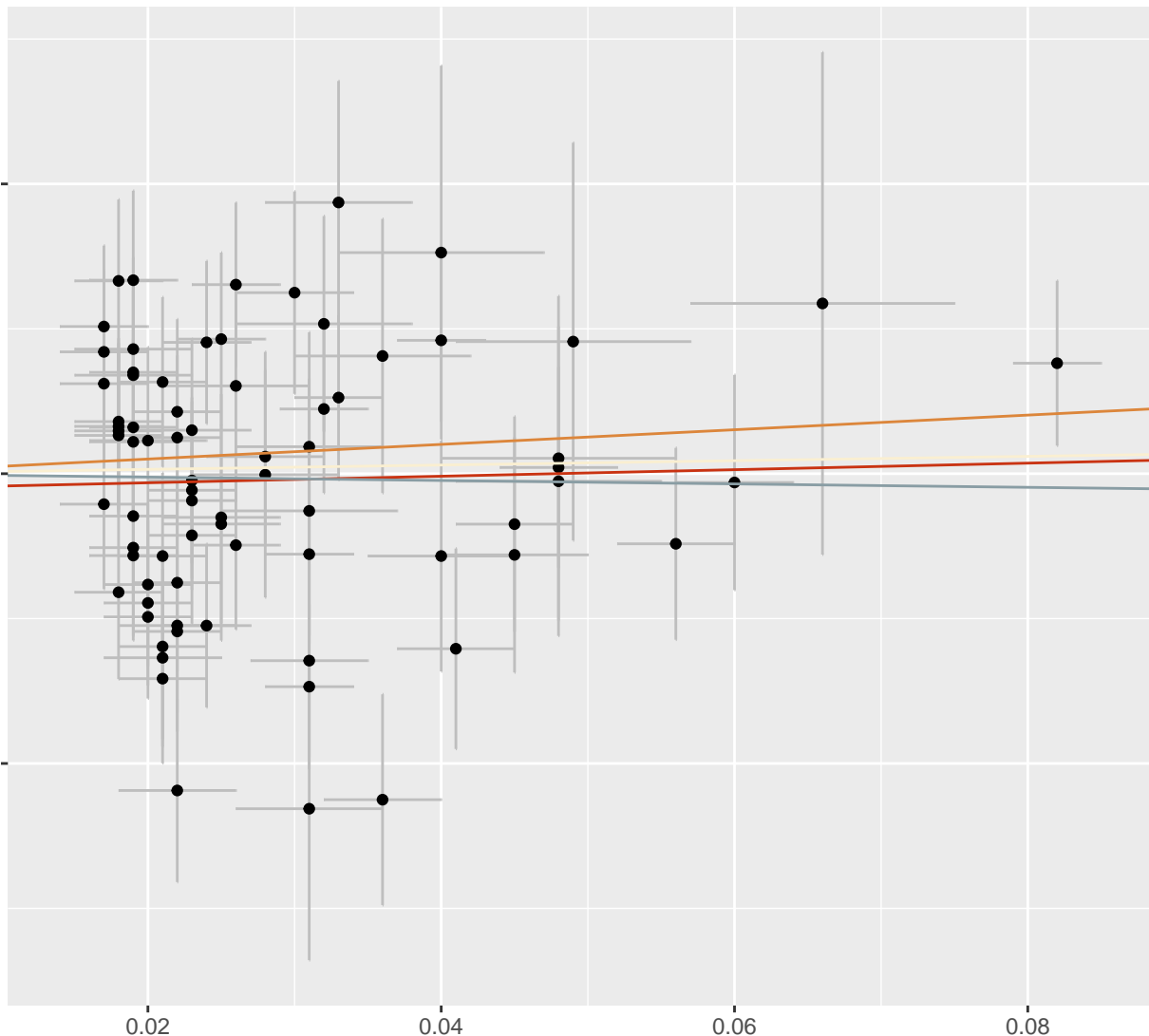
Weighted median

Weighted mode

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

0.02  
0.00  
-0.02

SNP effect on Locke BMI EU sex combined 77 SNPs clumped





# MR Test

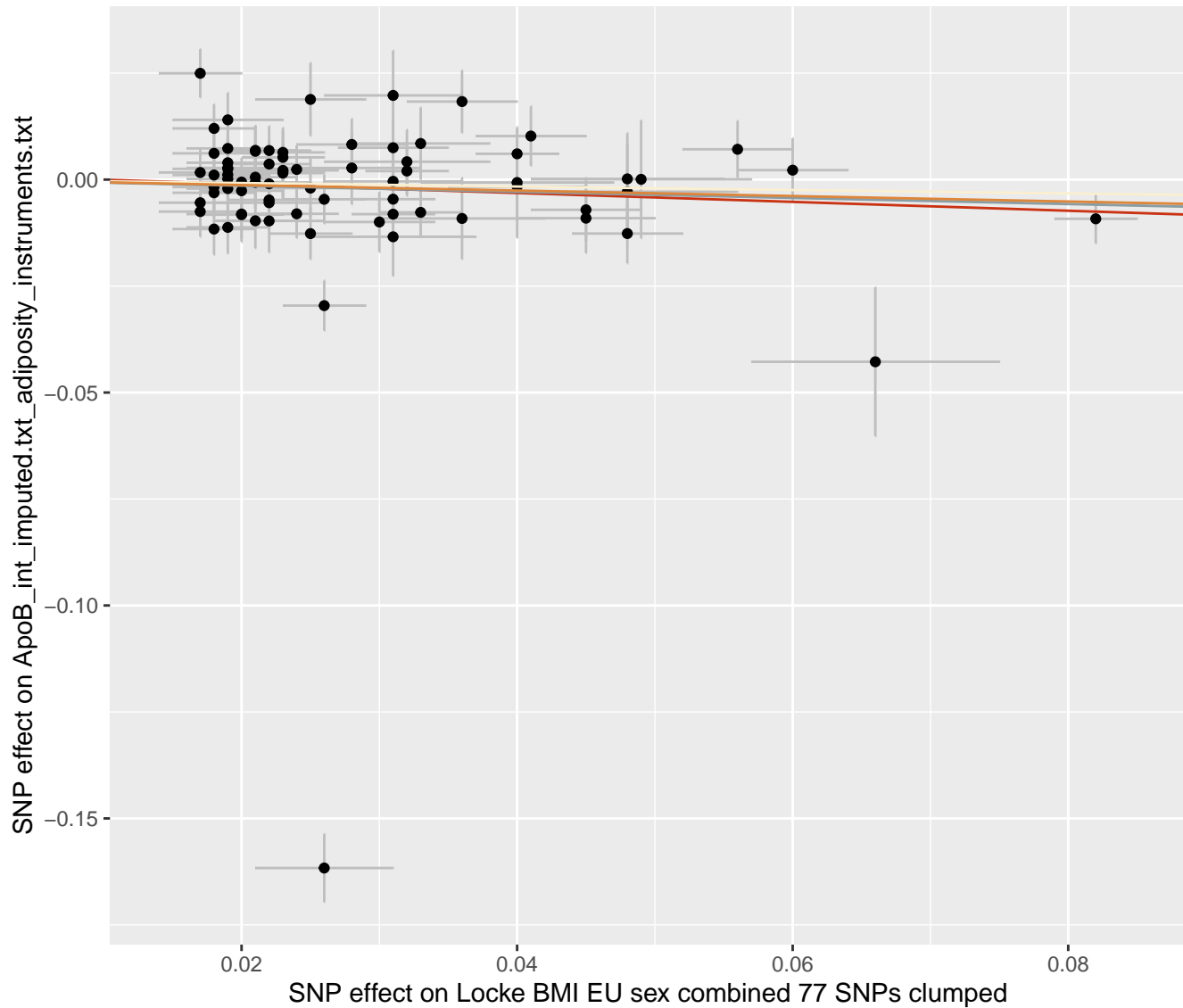


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test



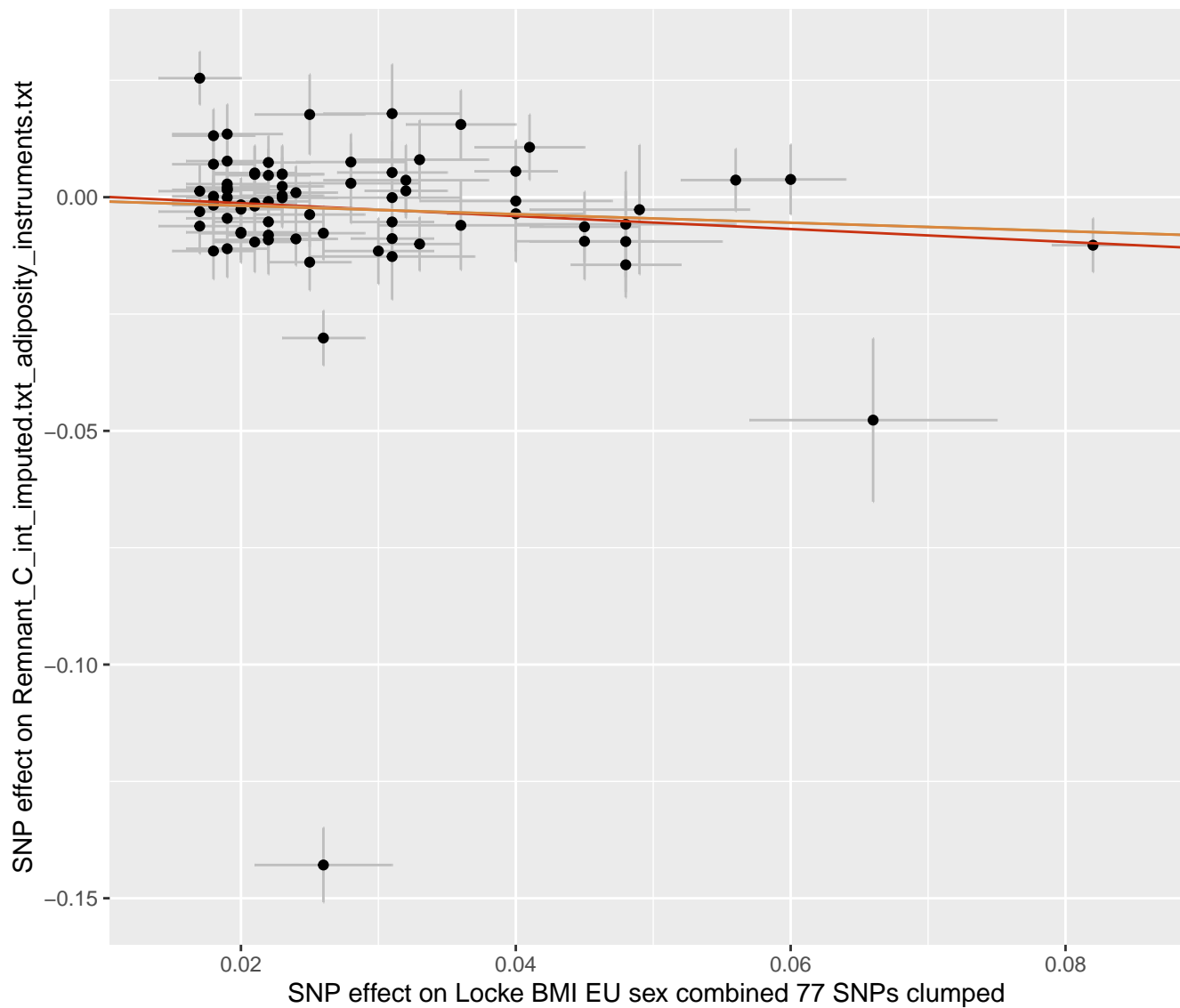
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode

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

0.00

-0.05

-0.10

-0.15

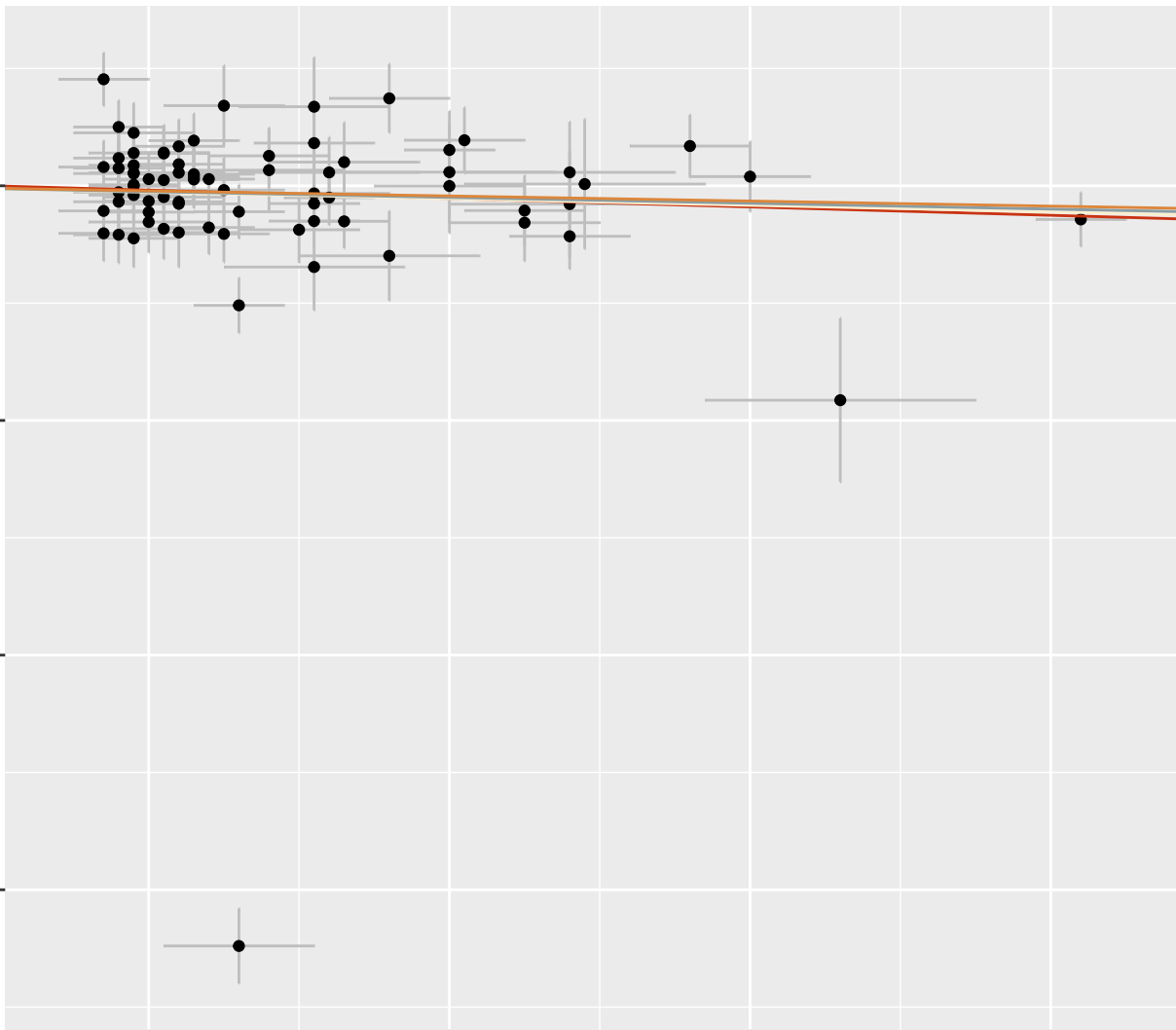
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.02

0.00

-0.02

-0.04

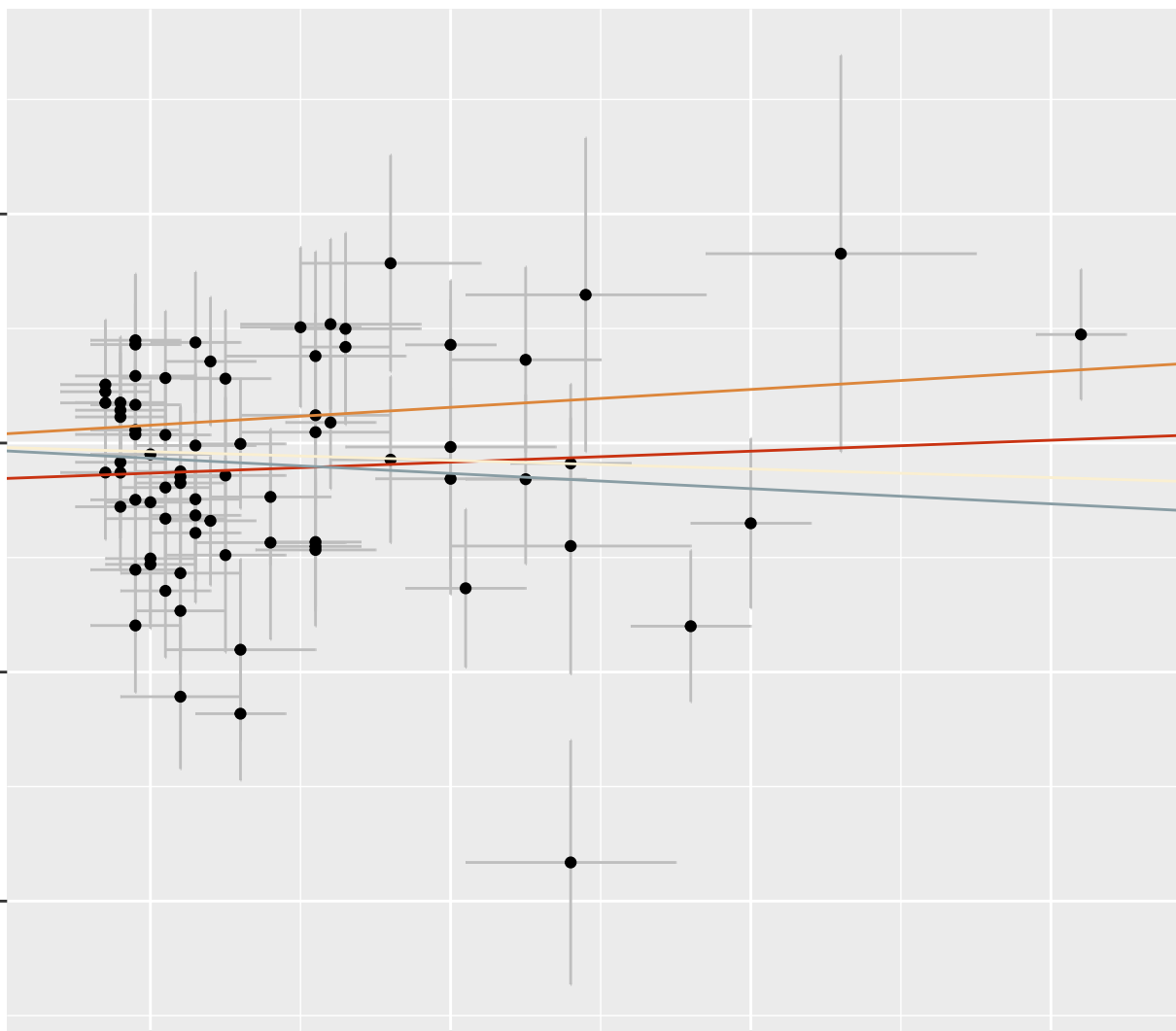
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test



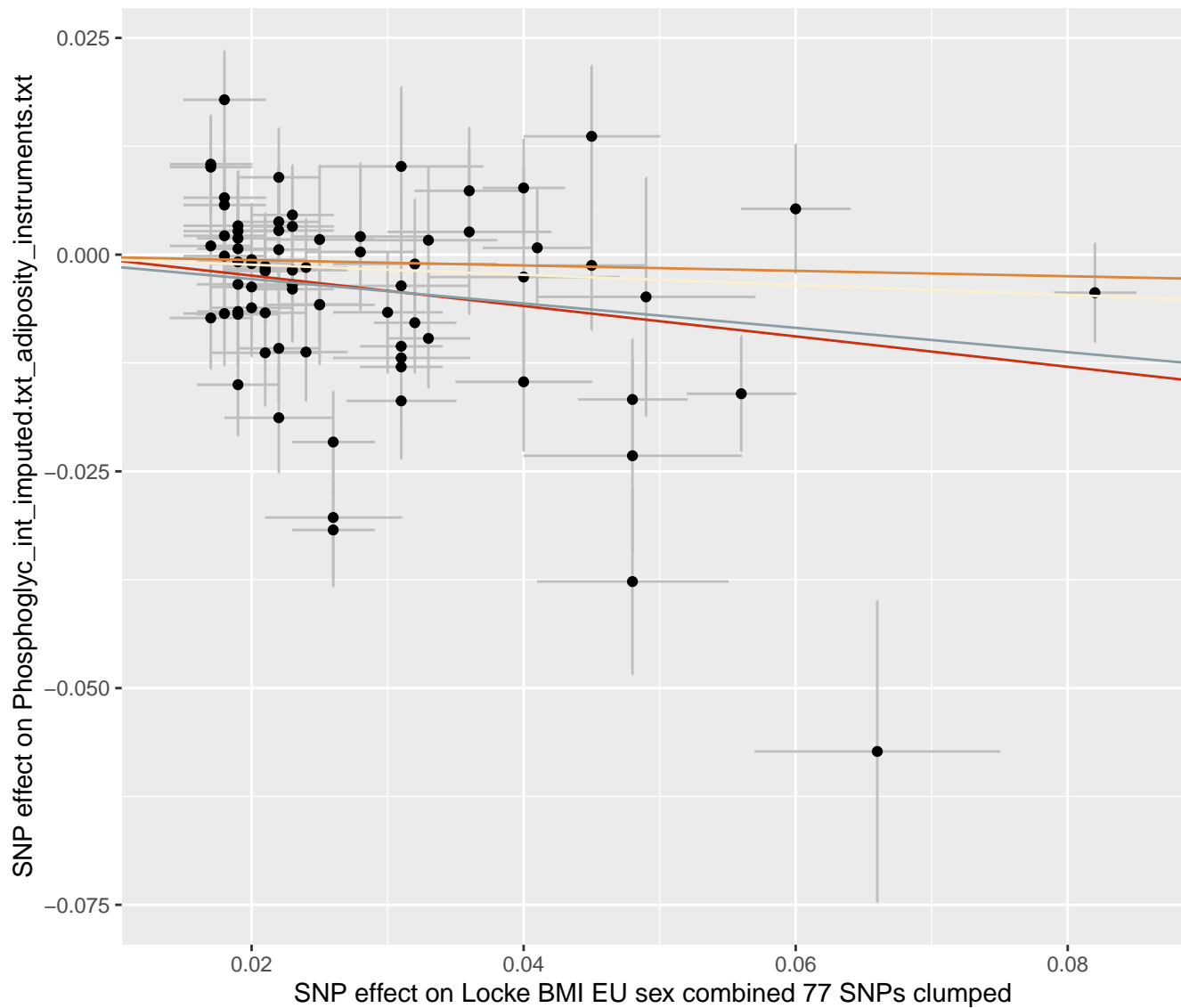
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test

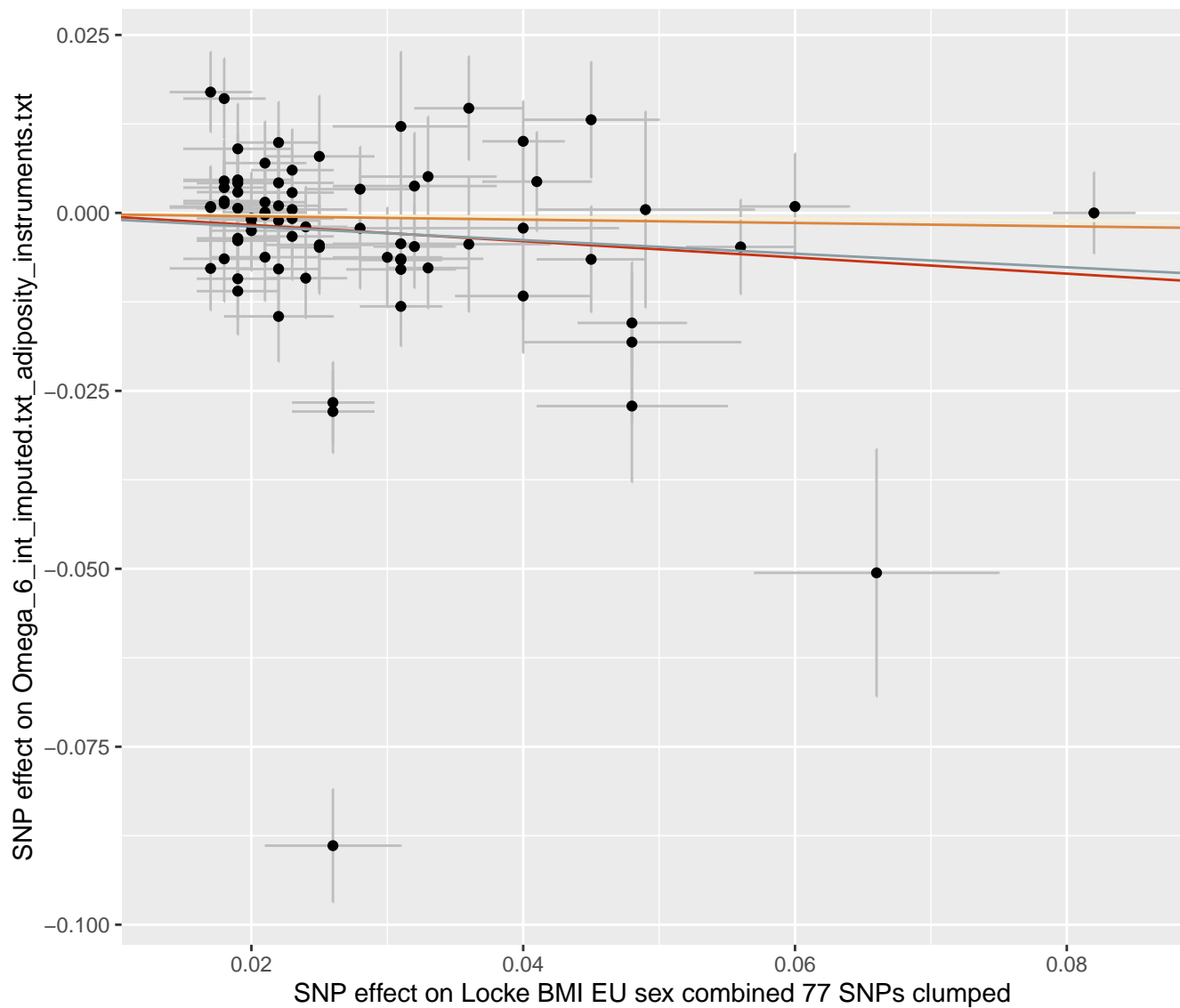


Inverse variance weighted (multiplicative random effects)

MR Egger

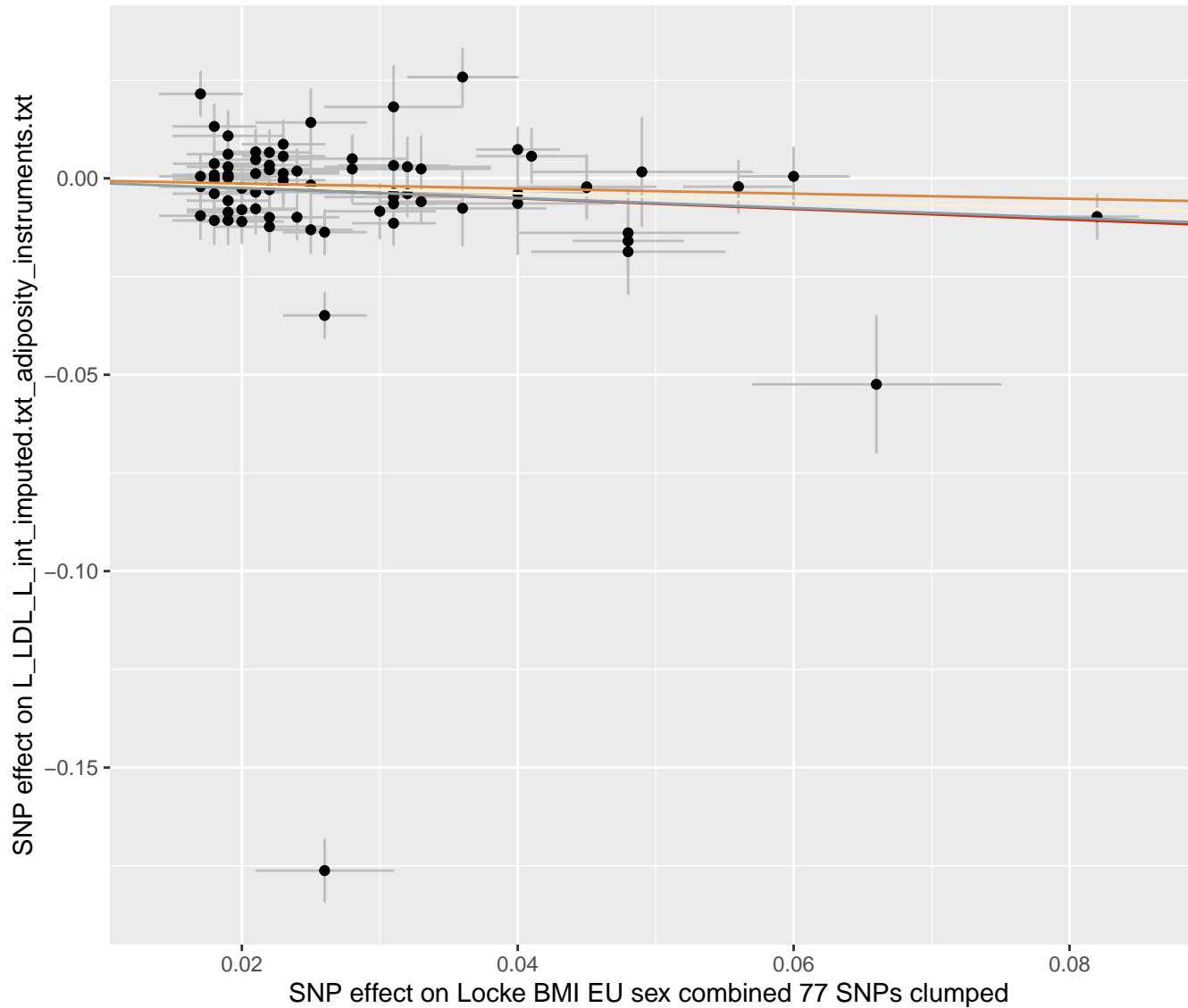
Weighted median

Weighted mode



# MR Test

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



# MR Test



Inverse variance weighted (multiplicative random effects)

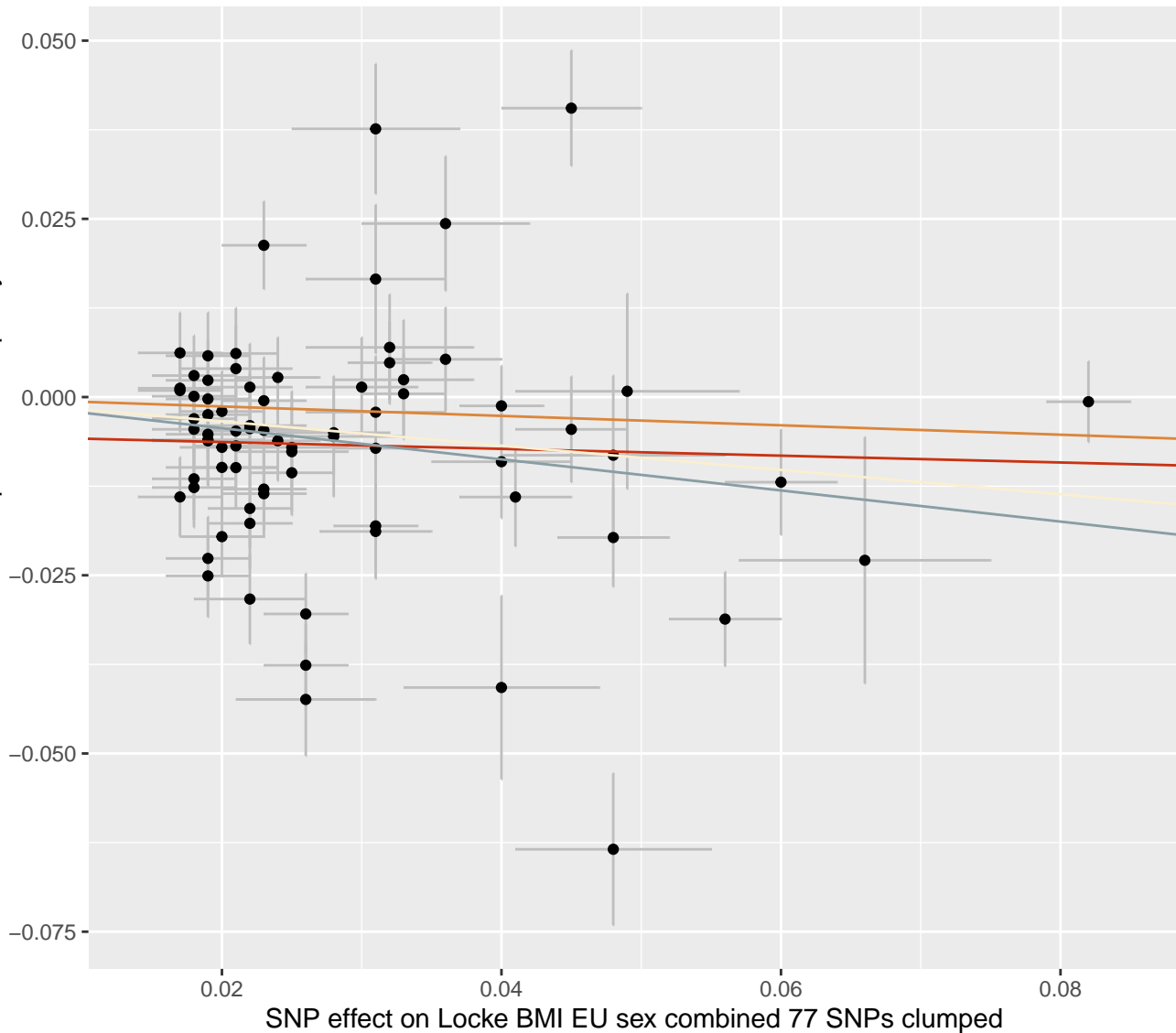
MR Egger



Weighted median

Weighted mode

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





# MR Test

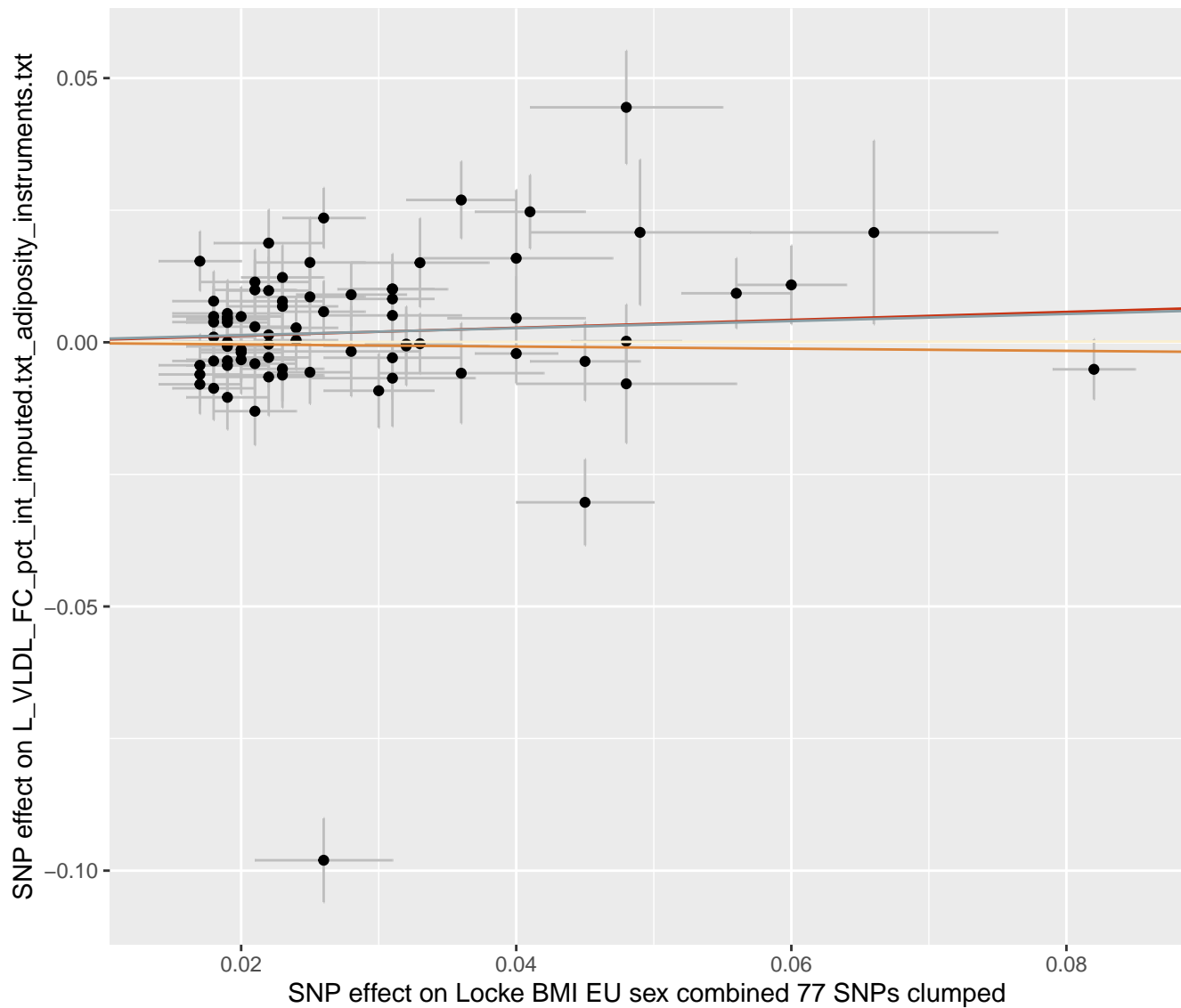


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test



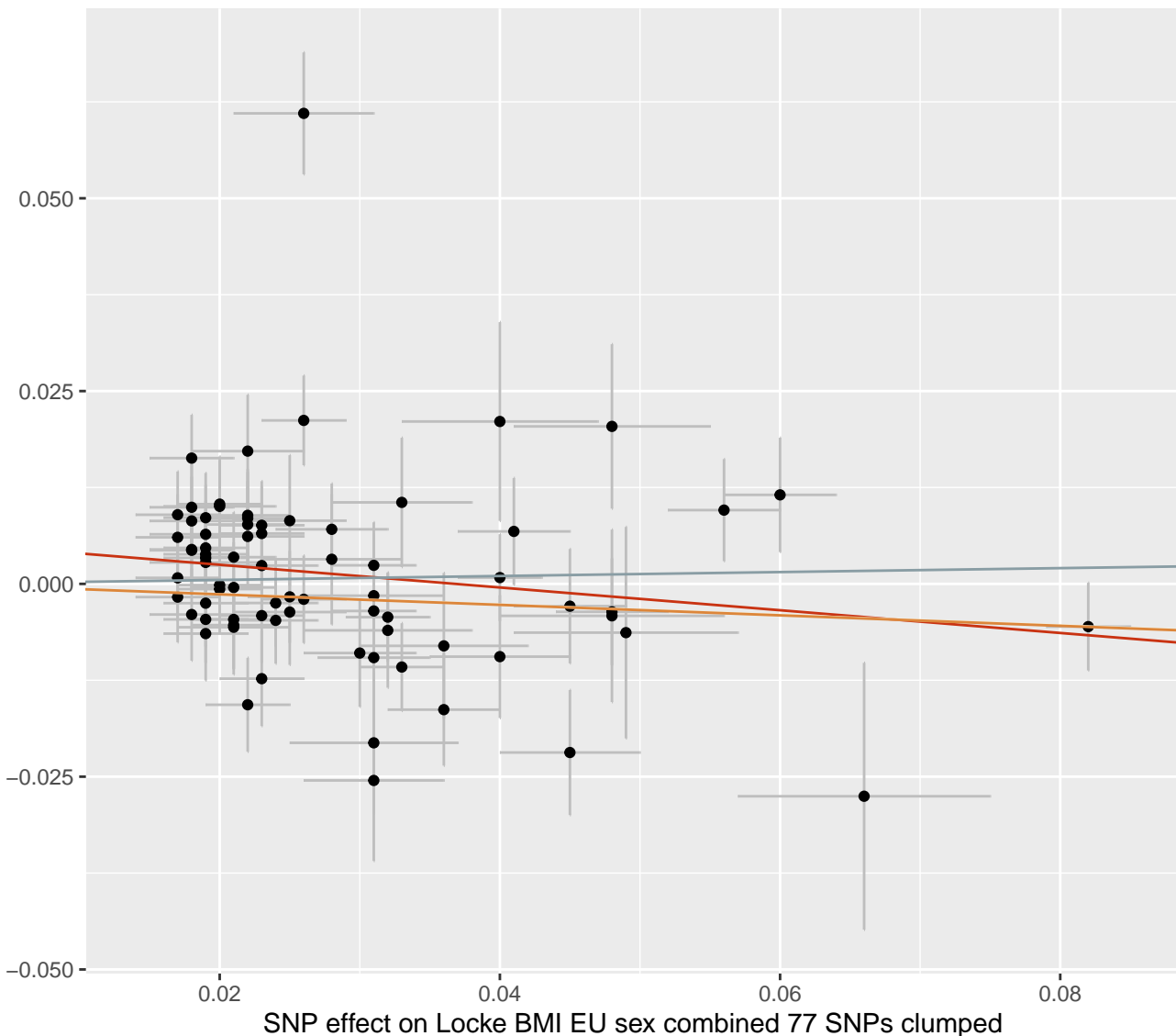
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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



# MR Test



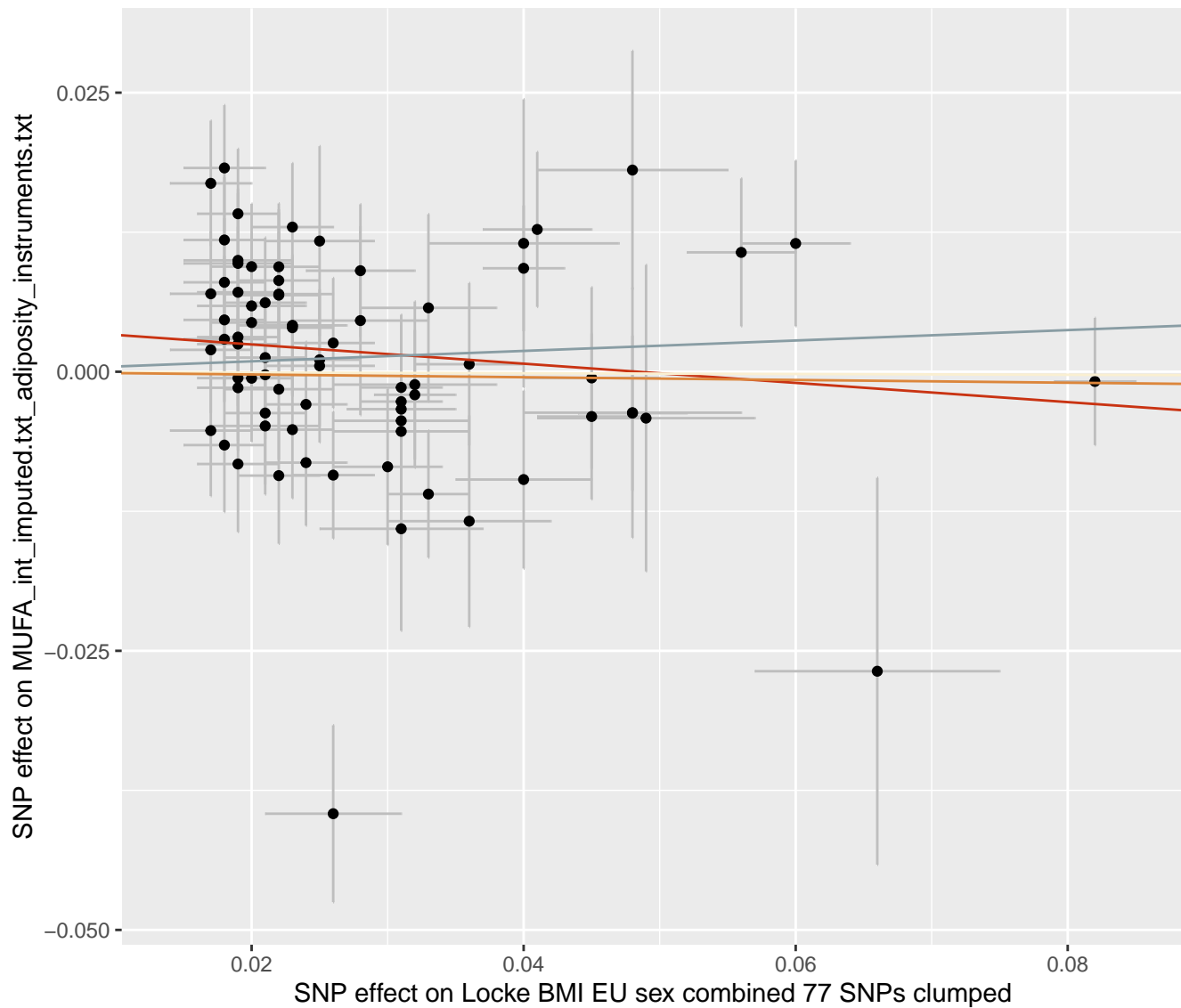
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode

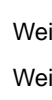


# MR Test



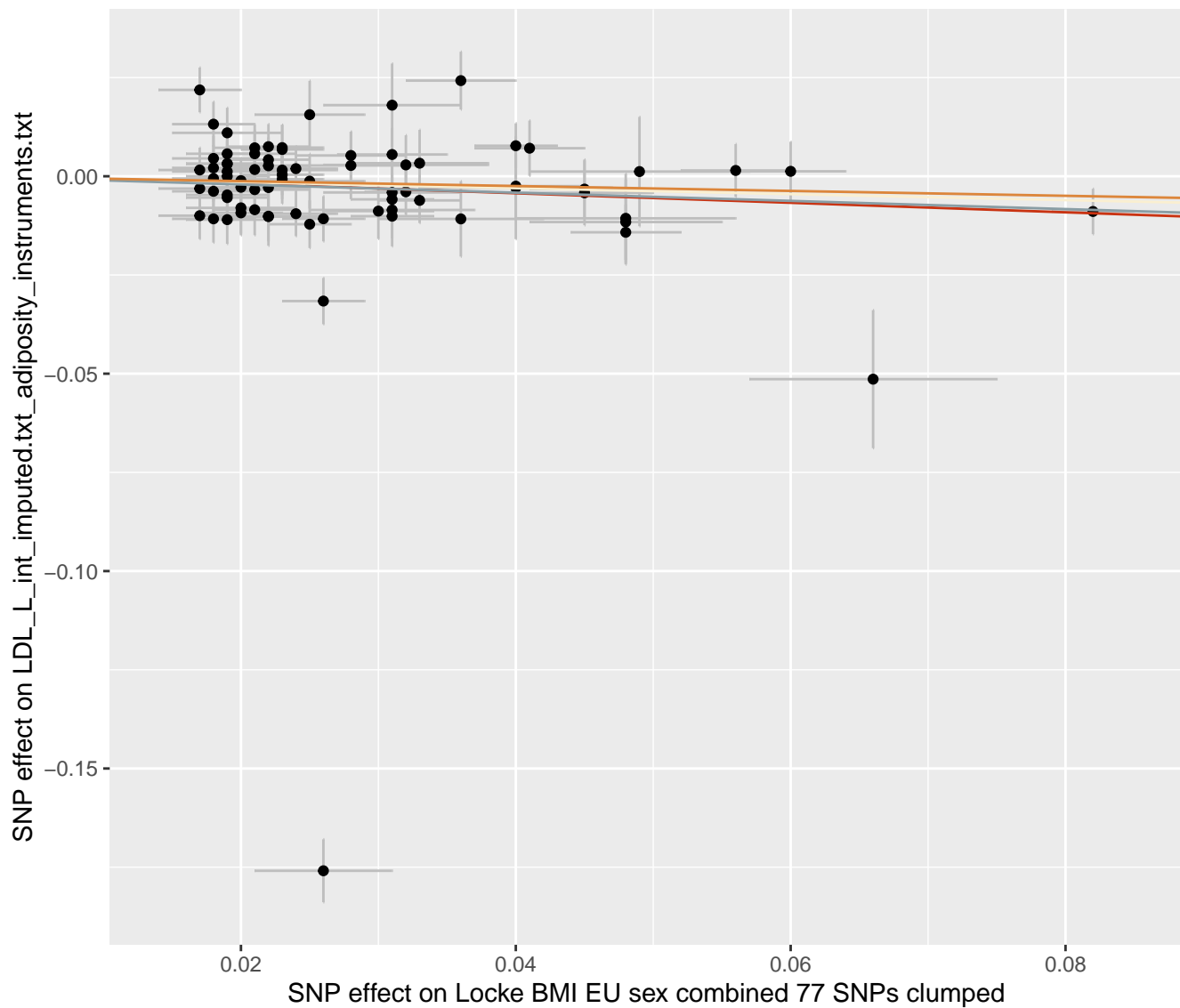
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode

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

0.00

-0.04

-0.08

-0.12

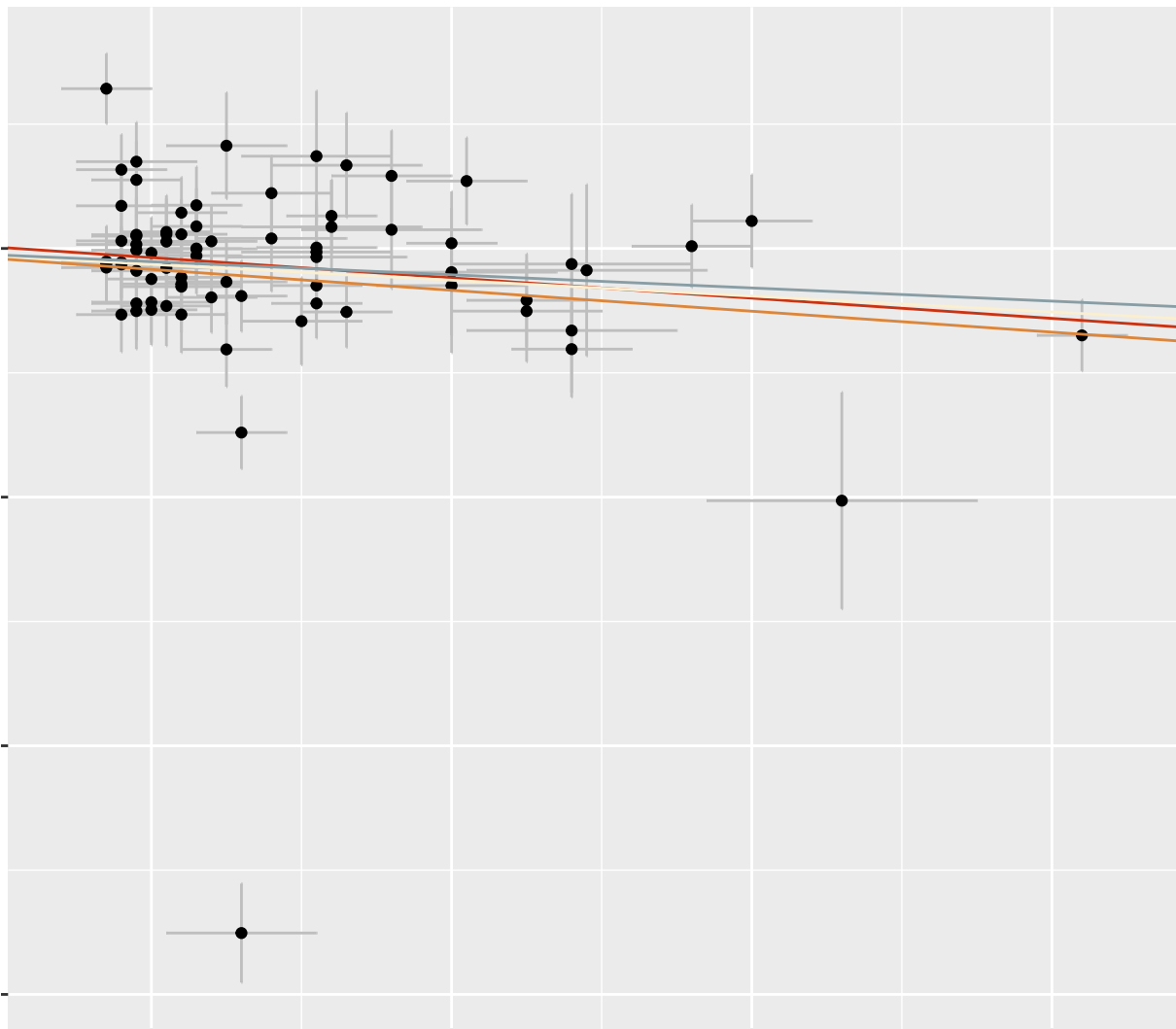
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.02

0.00

-0.02

-0.04

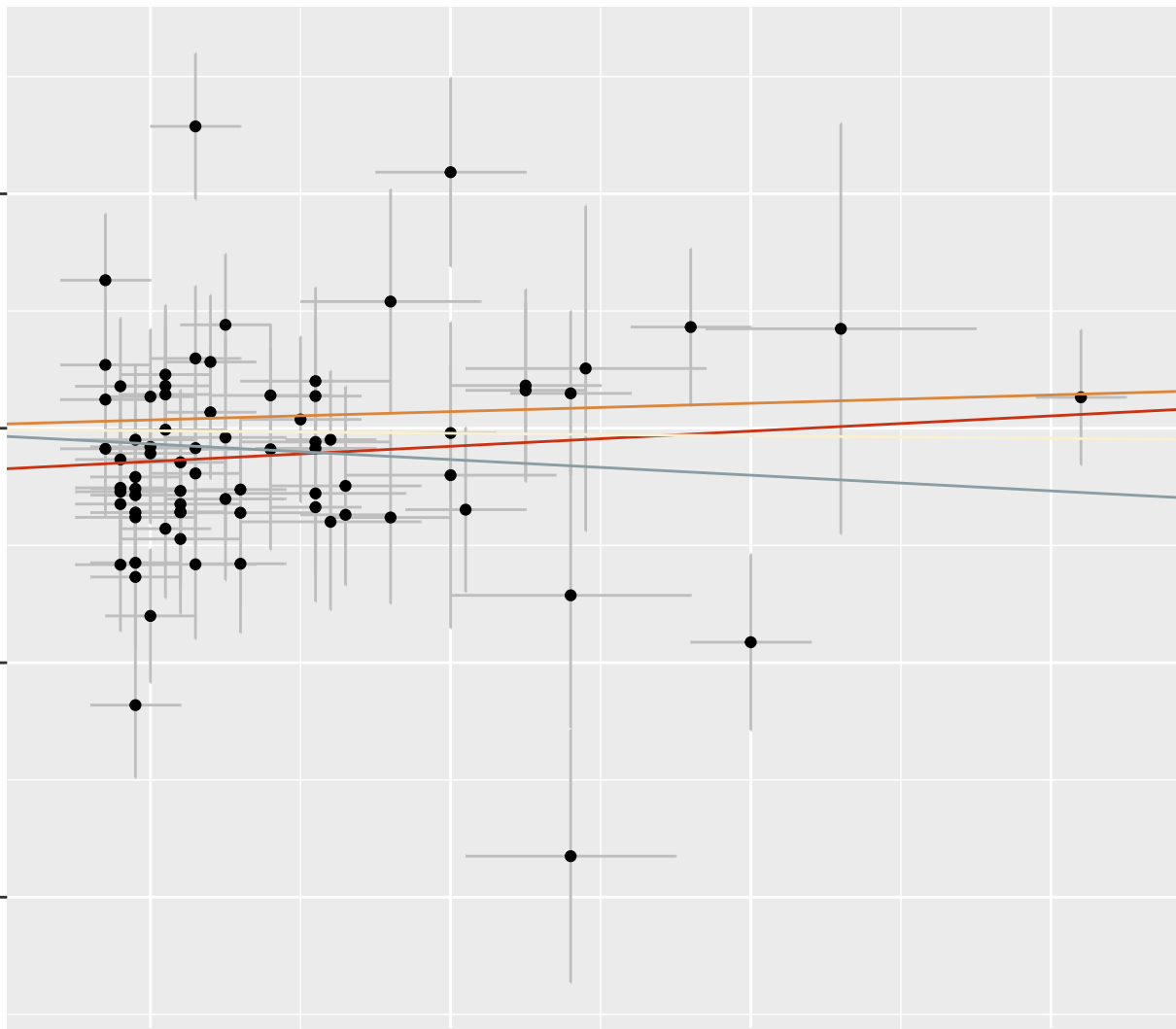
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# 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

0.05

0.00

-0.05

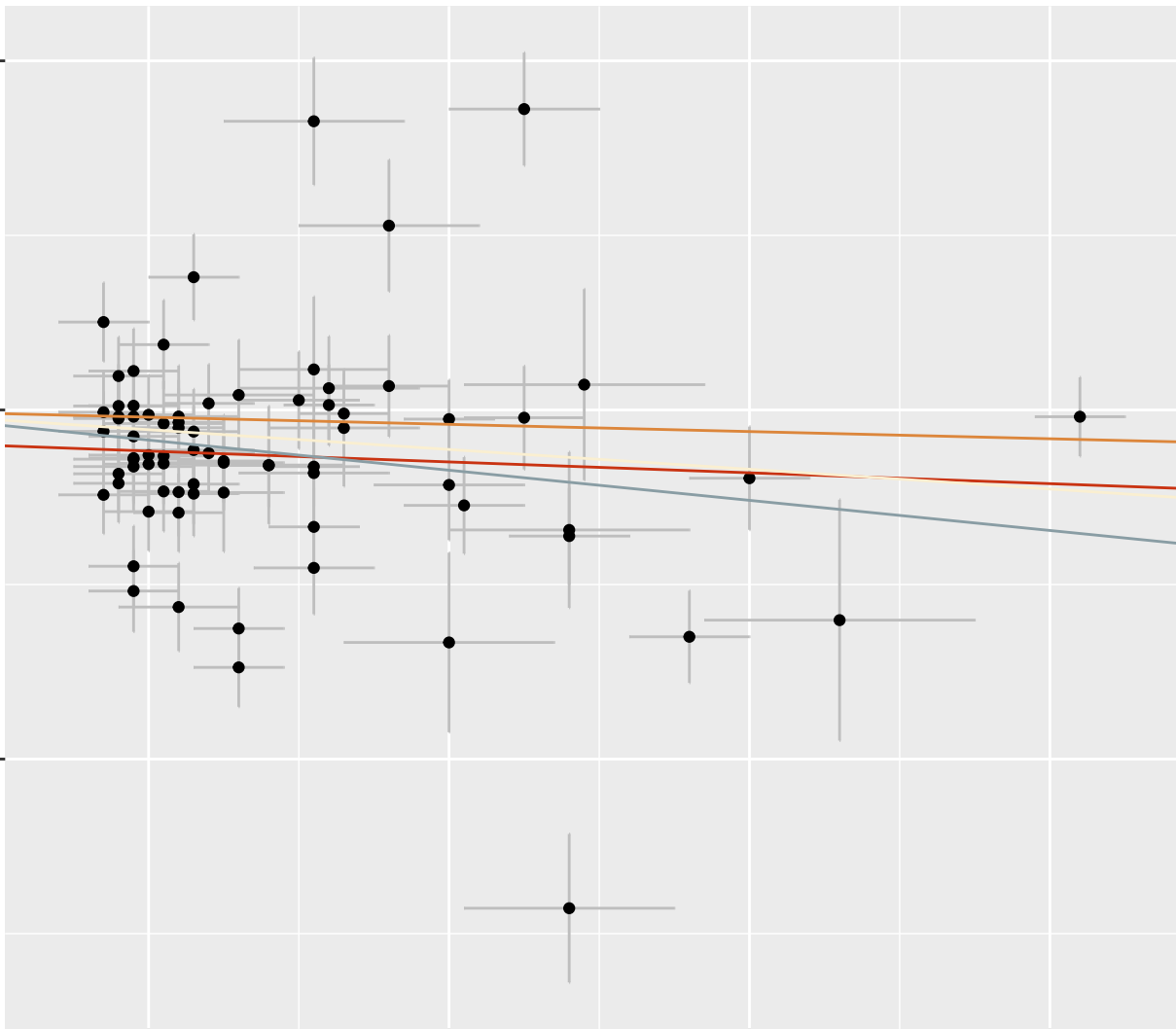
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.025

0.000

-0.025

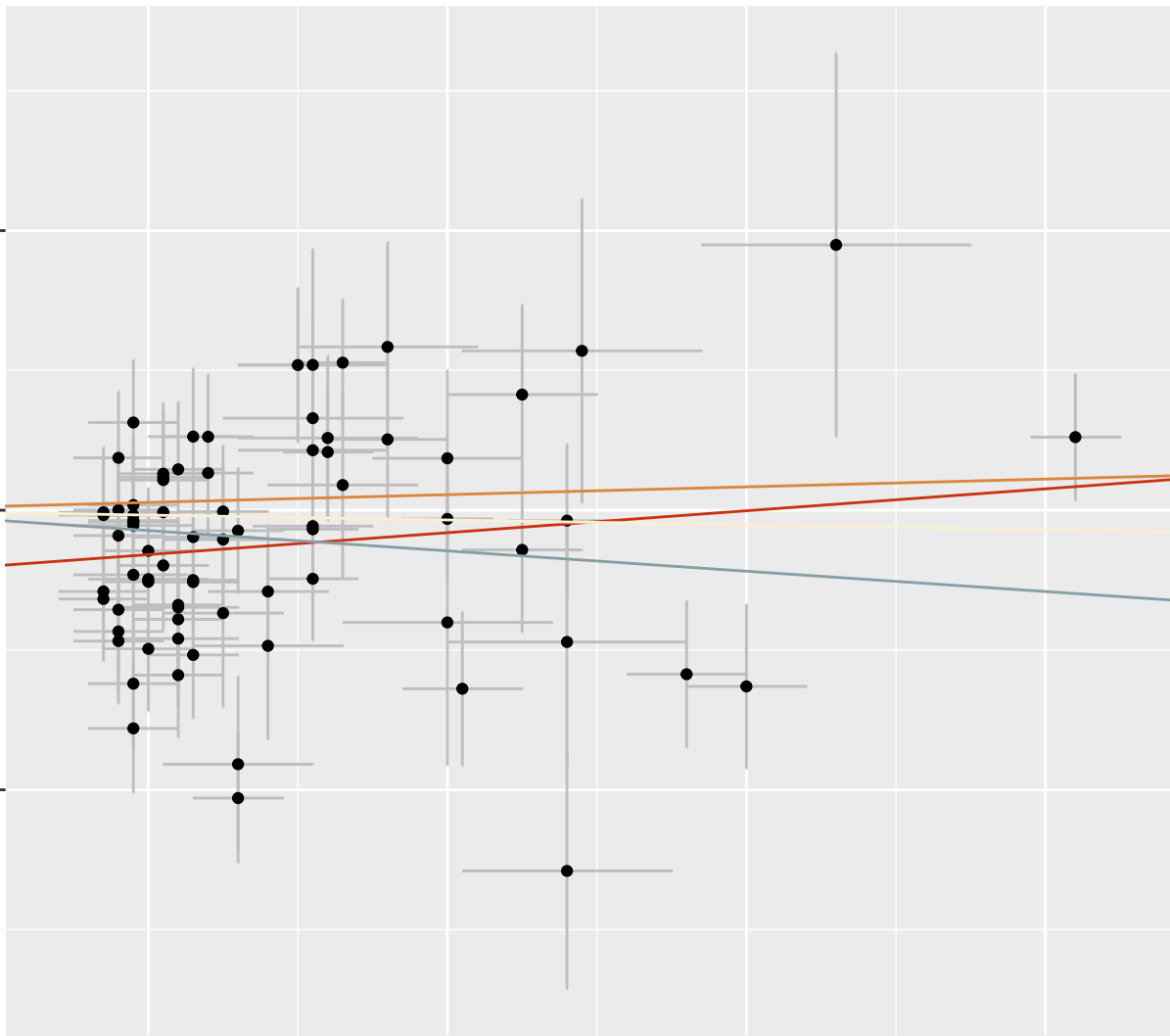
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped





# MR Test



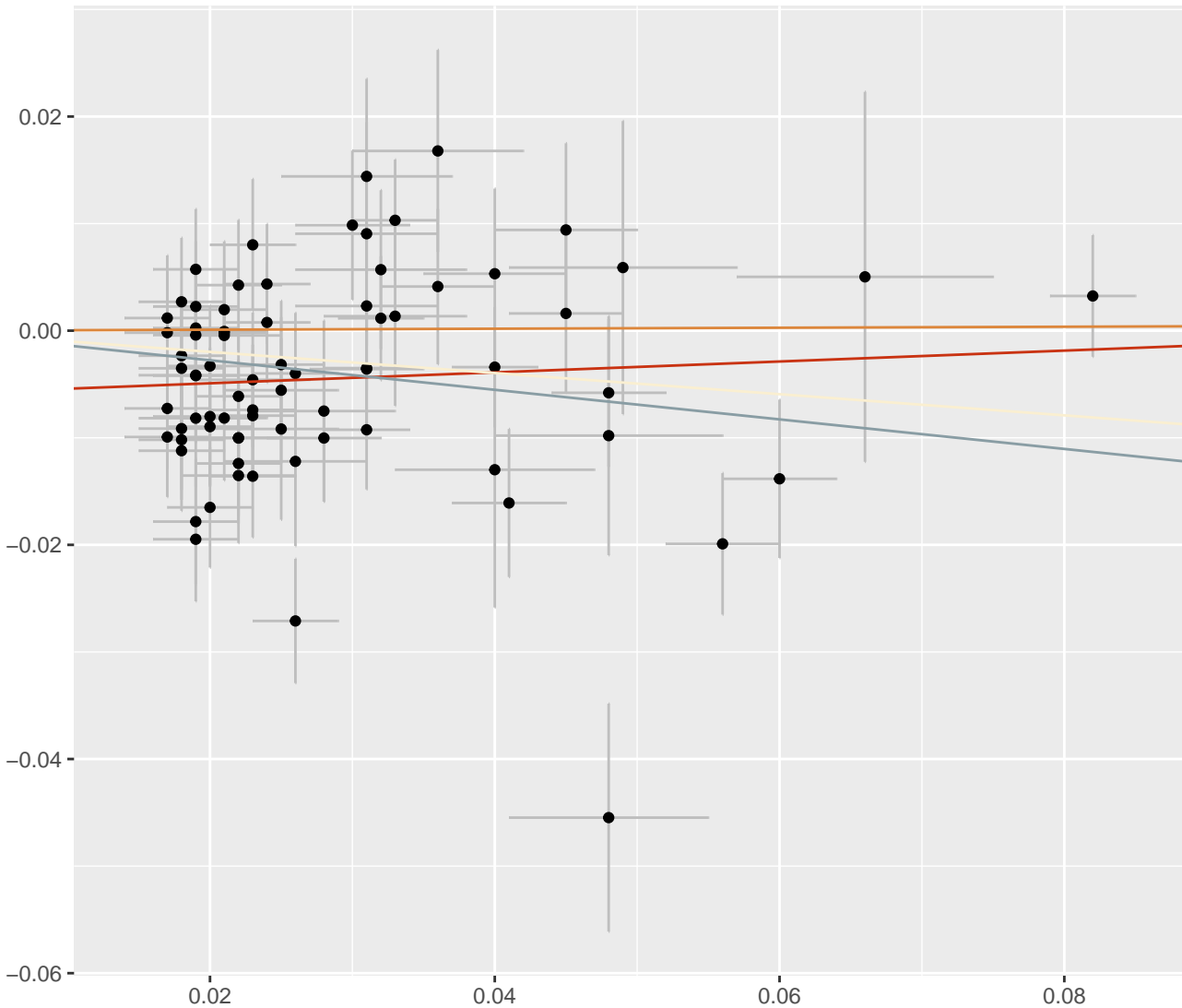
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

SNP effect on PUFA\_by\_MUFA\_int\_imputed.txt\_adiposity\_instruments.txt



SNP effect on Locke BMI EU sex combined 77 SNPs clumped

# MR Test



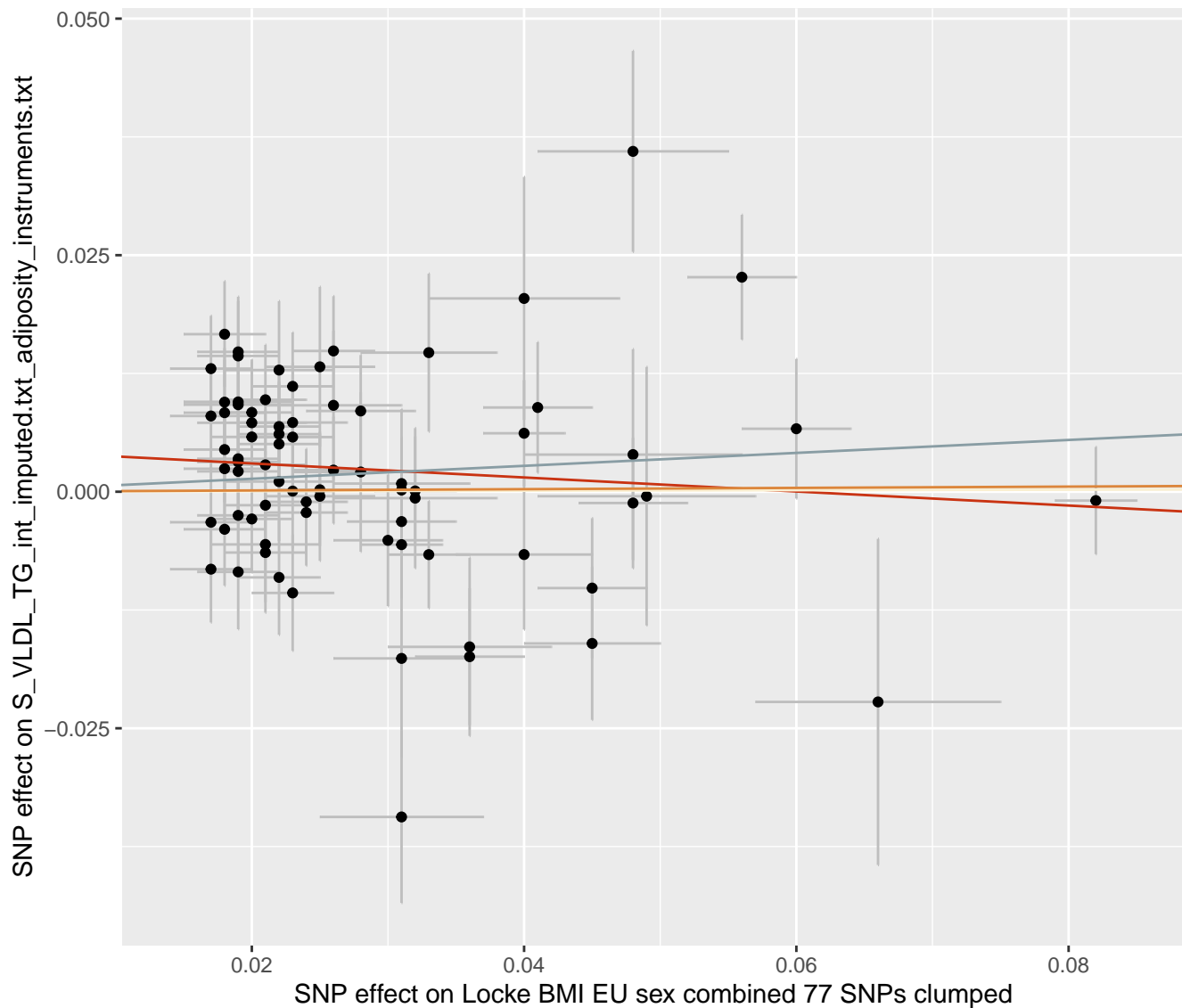
Inverse variance weighted (multiplicative random effects)

MR Egger



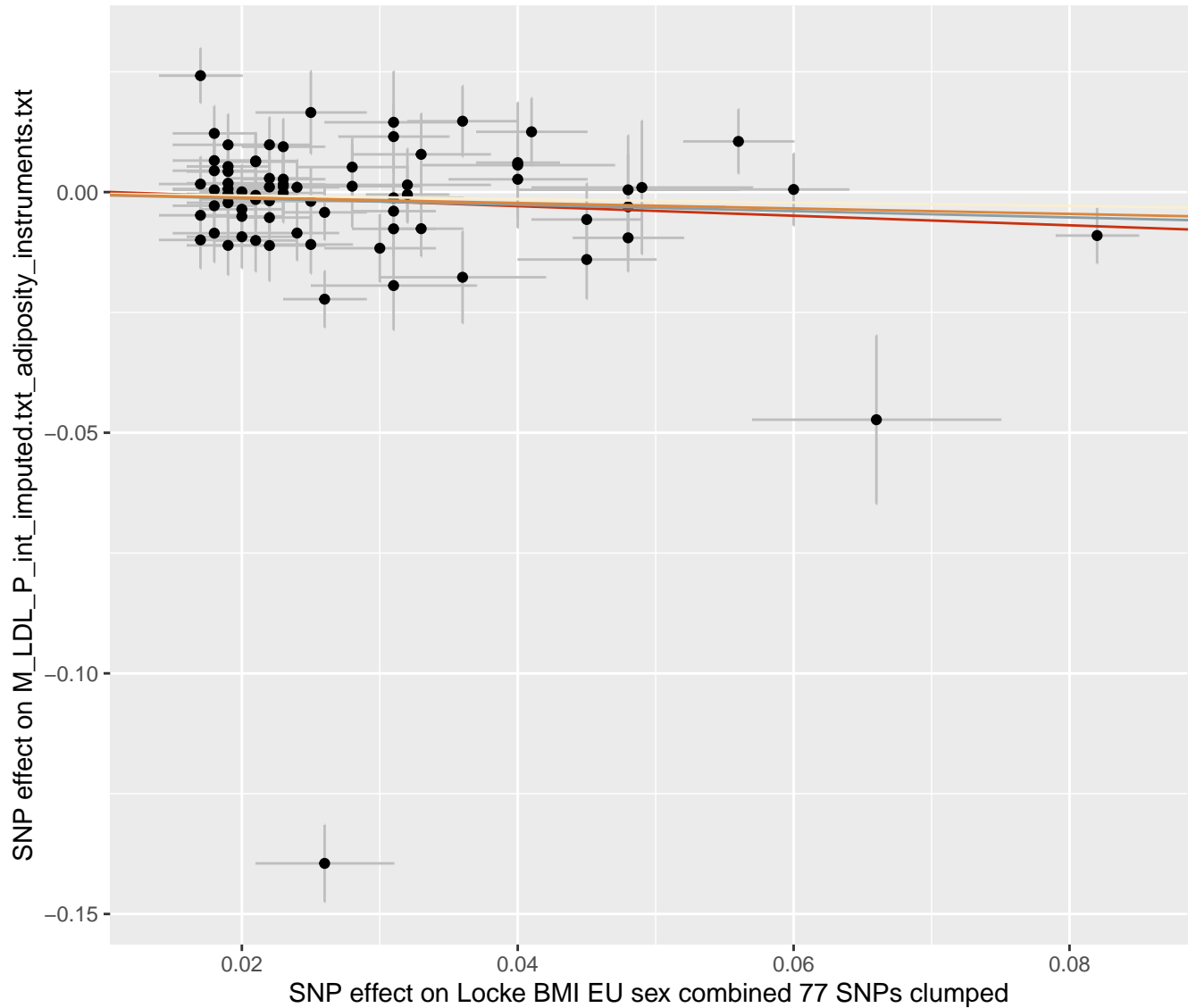
Weighted median

Weighted mode



# MR Test

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



# MR Test



Inverse variance weighted (multiplicative random effects)



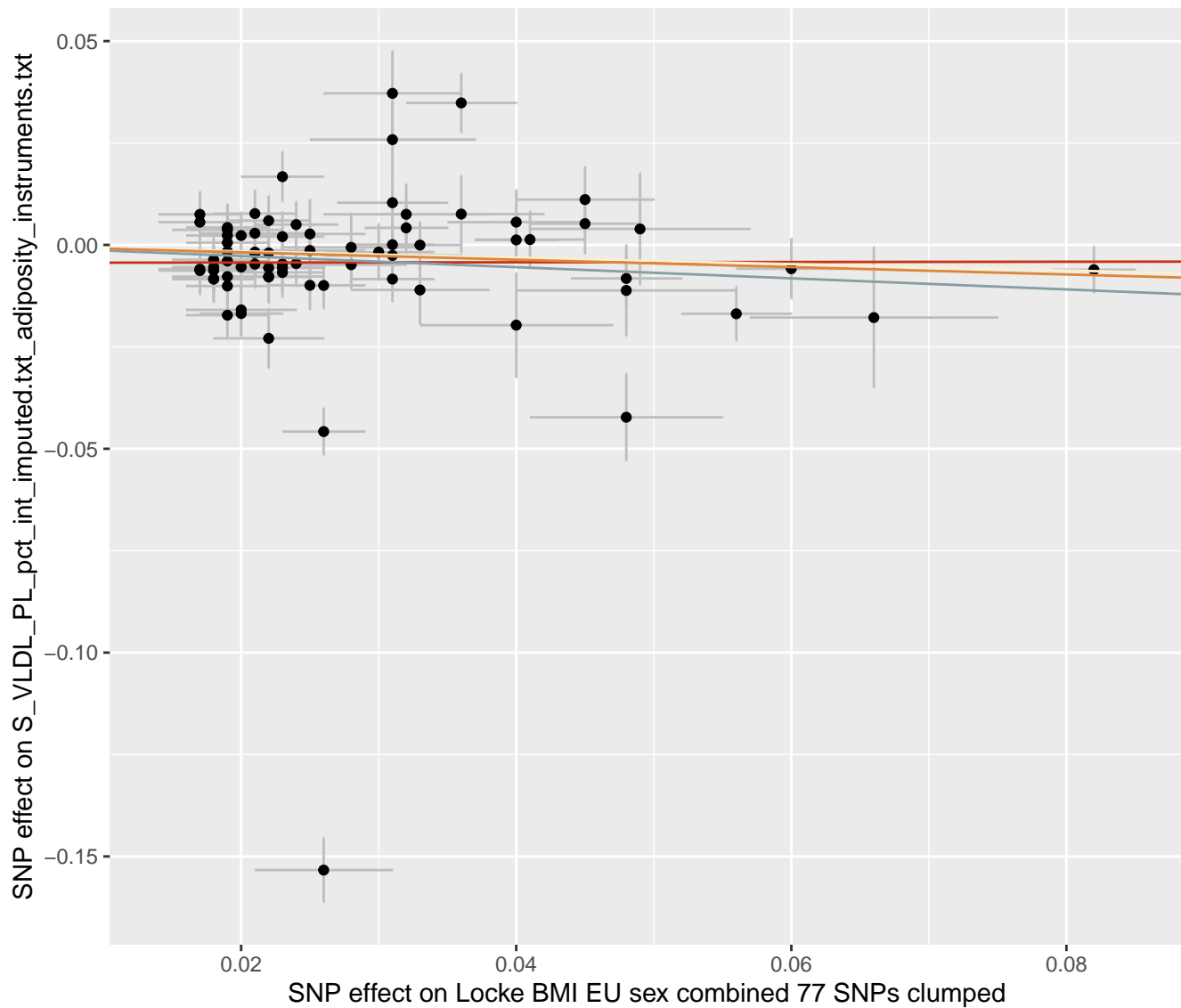
MR Egger



Weighted median

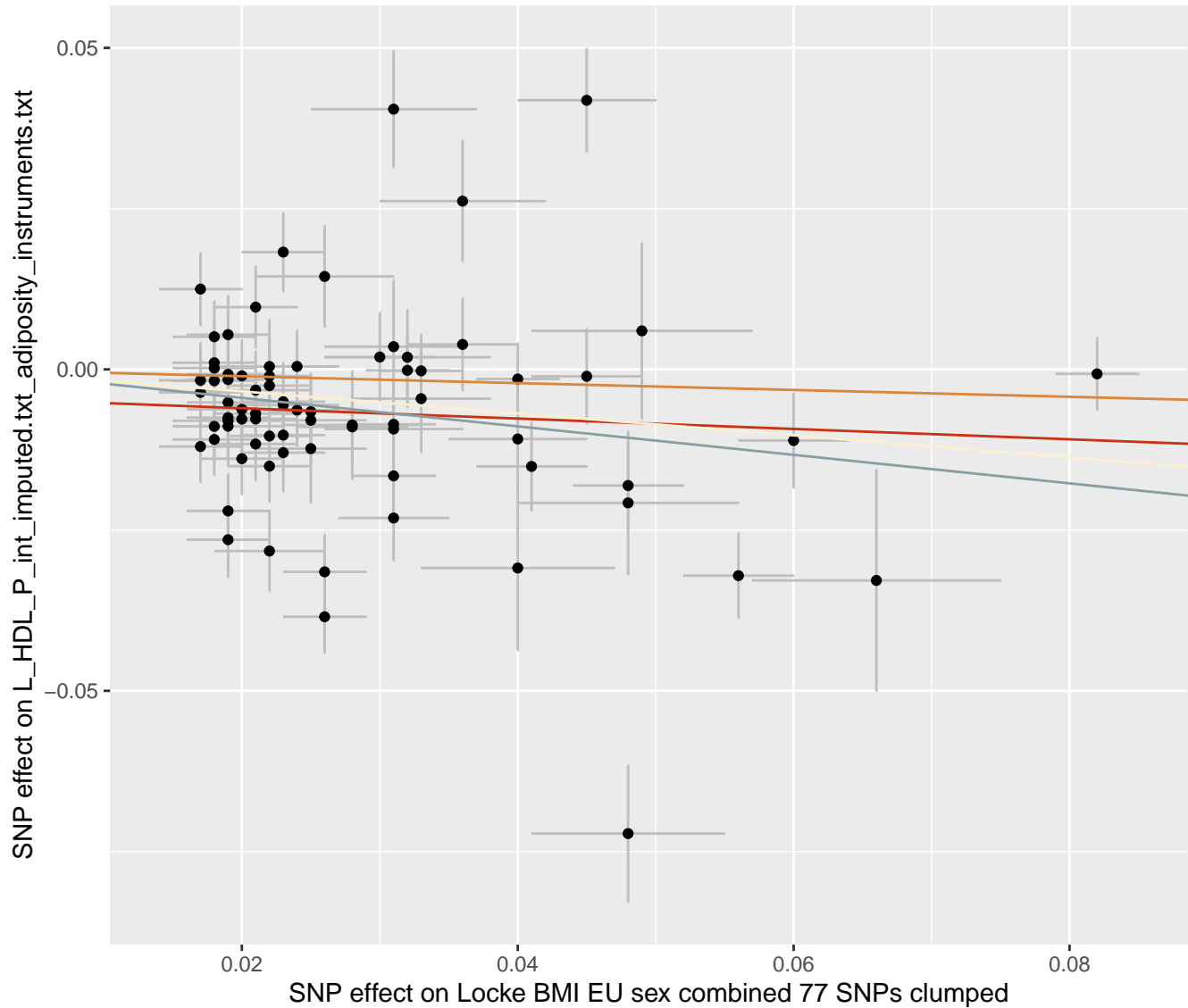


Weighted mode



# MR Test

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



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.00

-0.03

-0.06

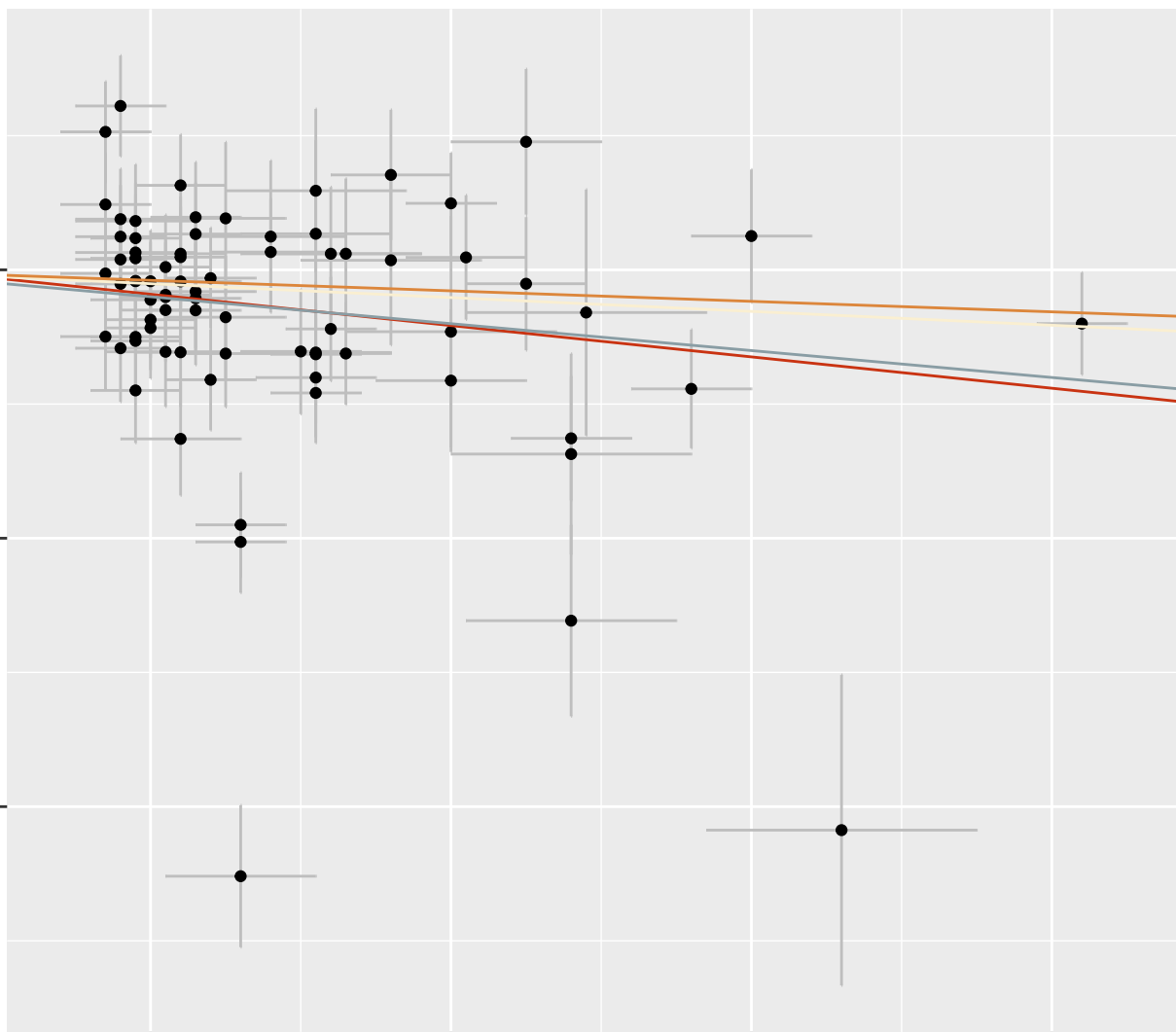
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode

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

0.025  
0.000  
-0.025

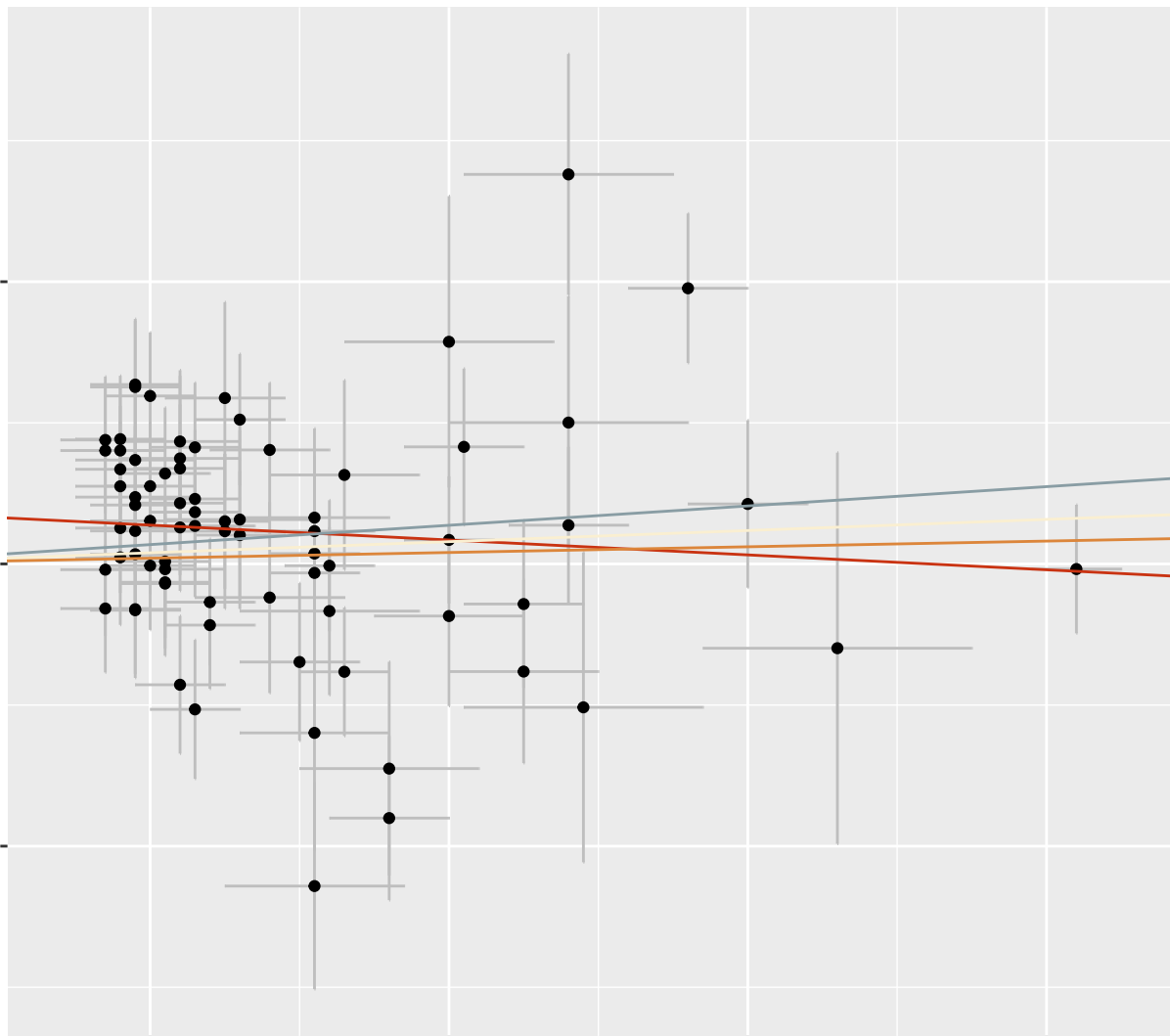
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test

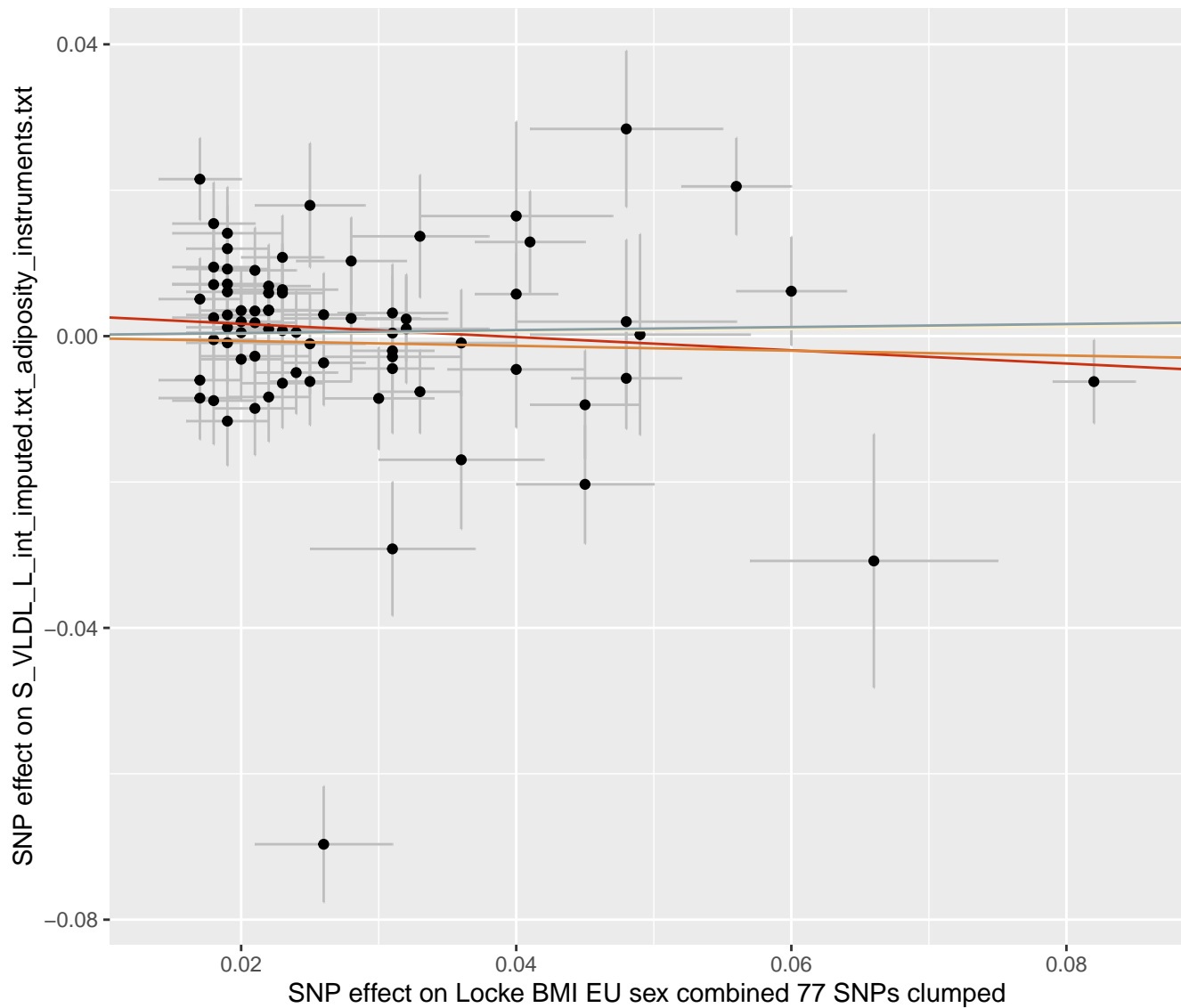


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

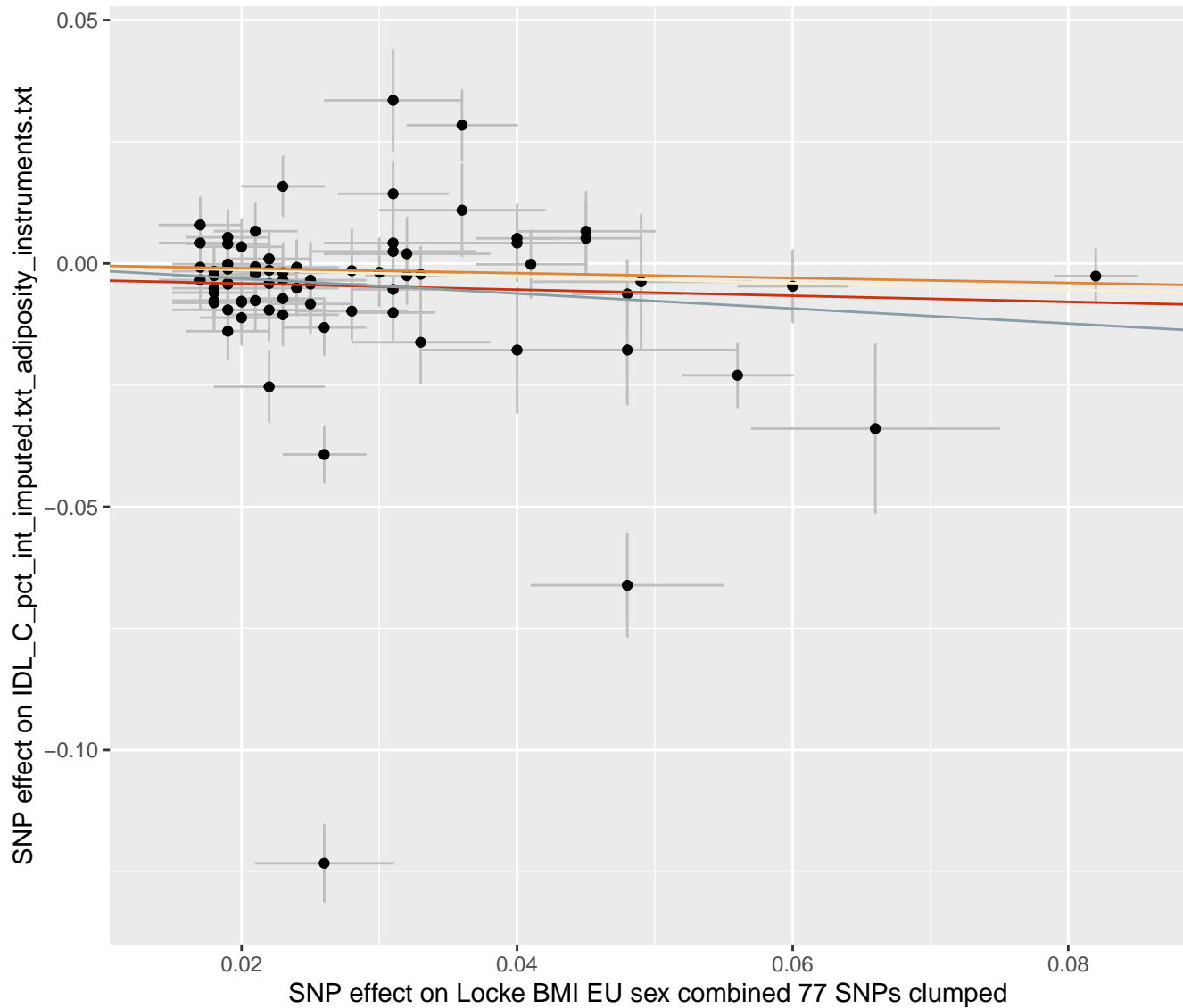
Weighted mode





# MR Test

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



# MR Test



Inverse variance weighted (multiplicative random effects)

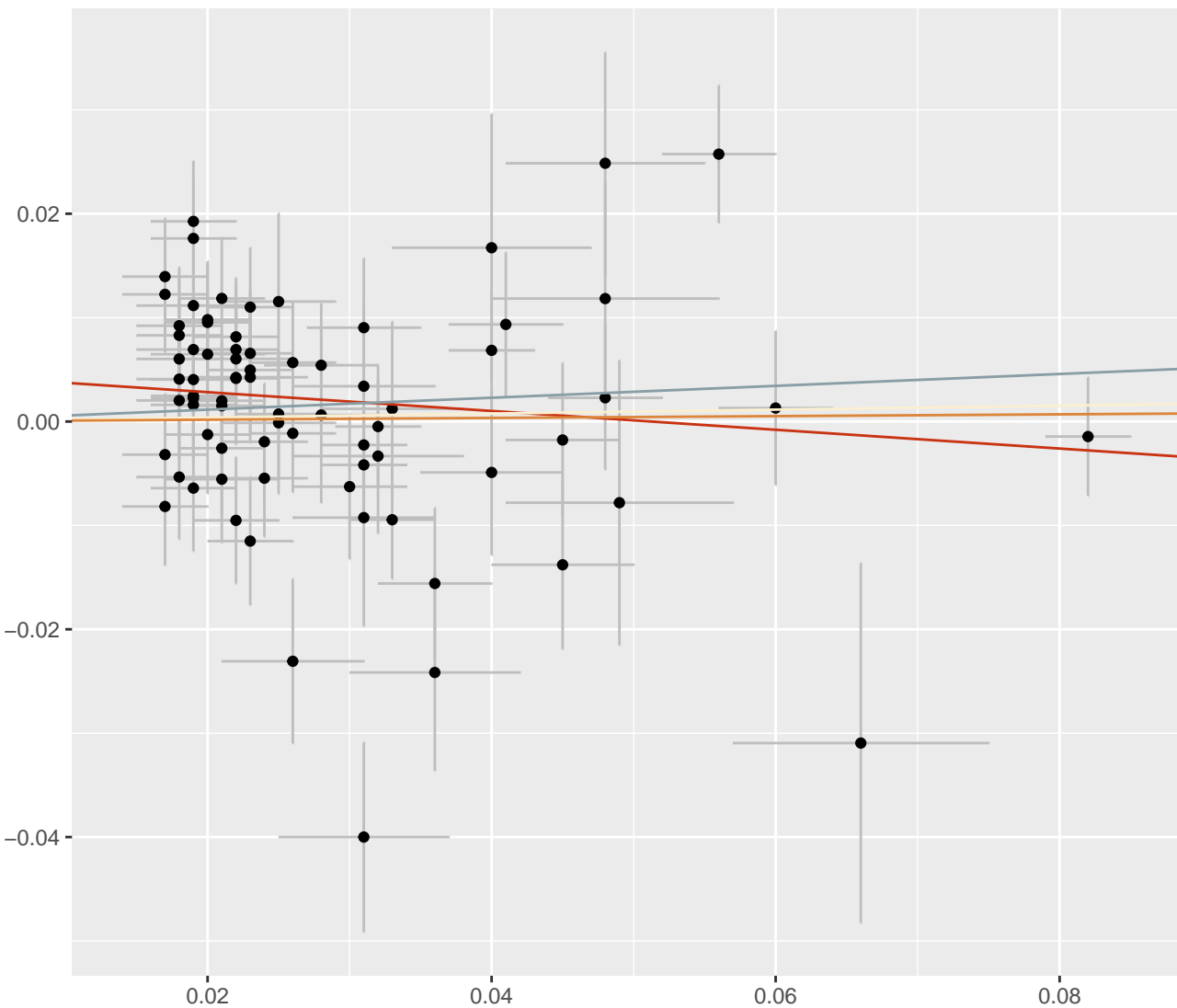
MR Egger



Weighted median

Weighted mode

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



# MR Test

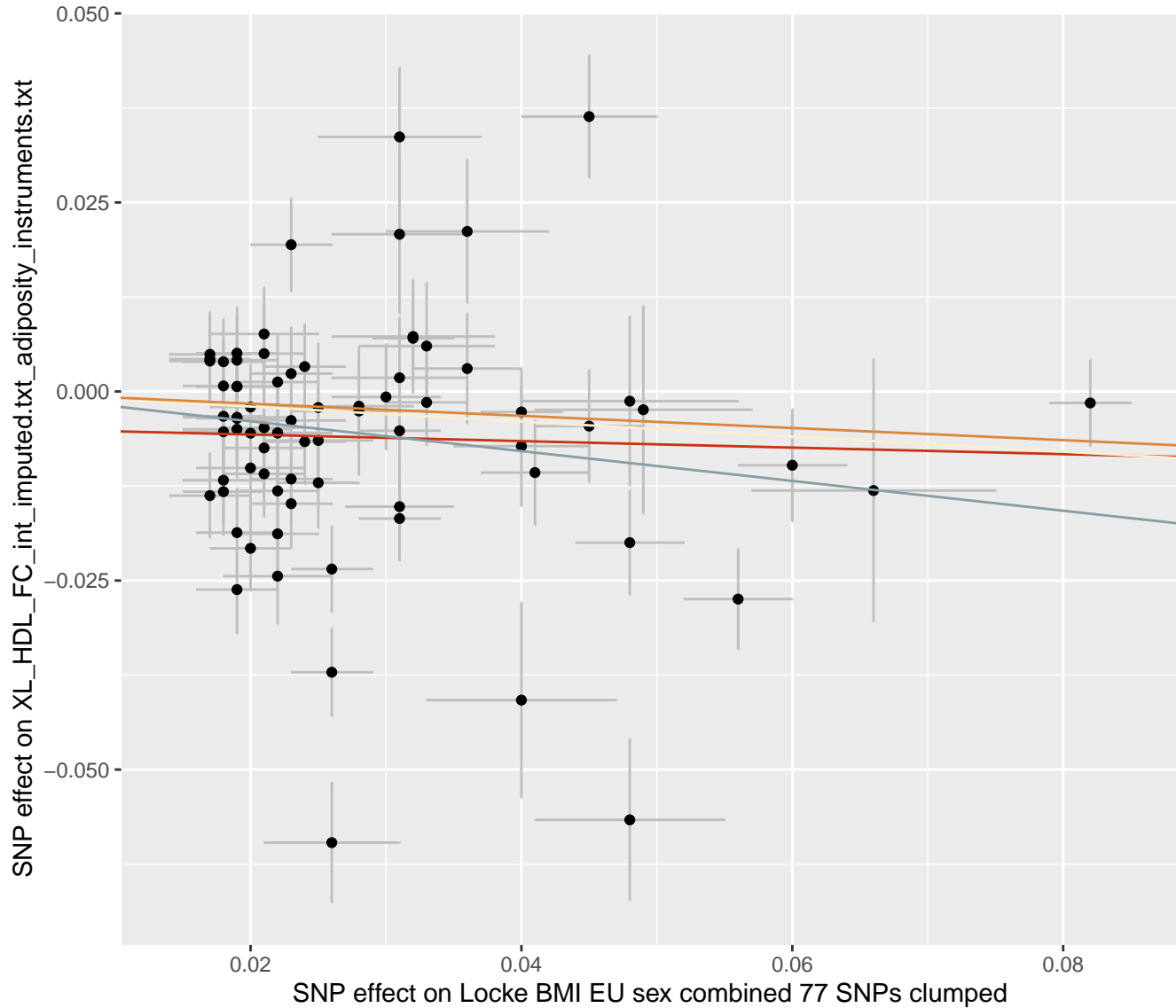


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test

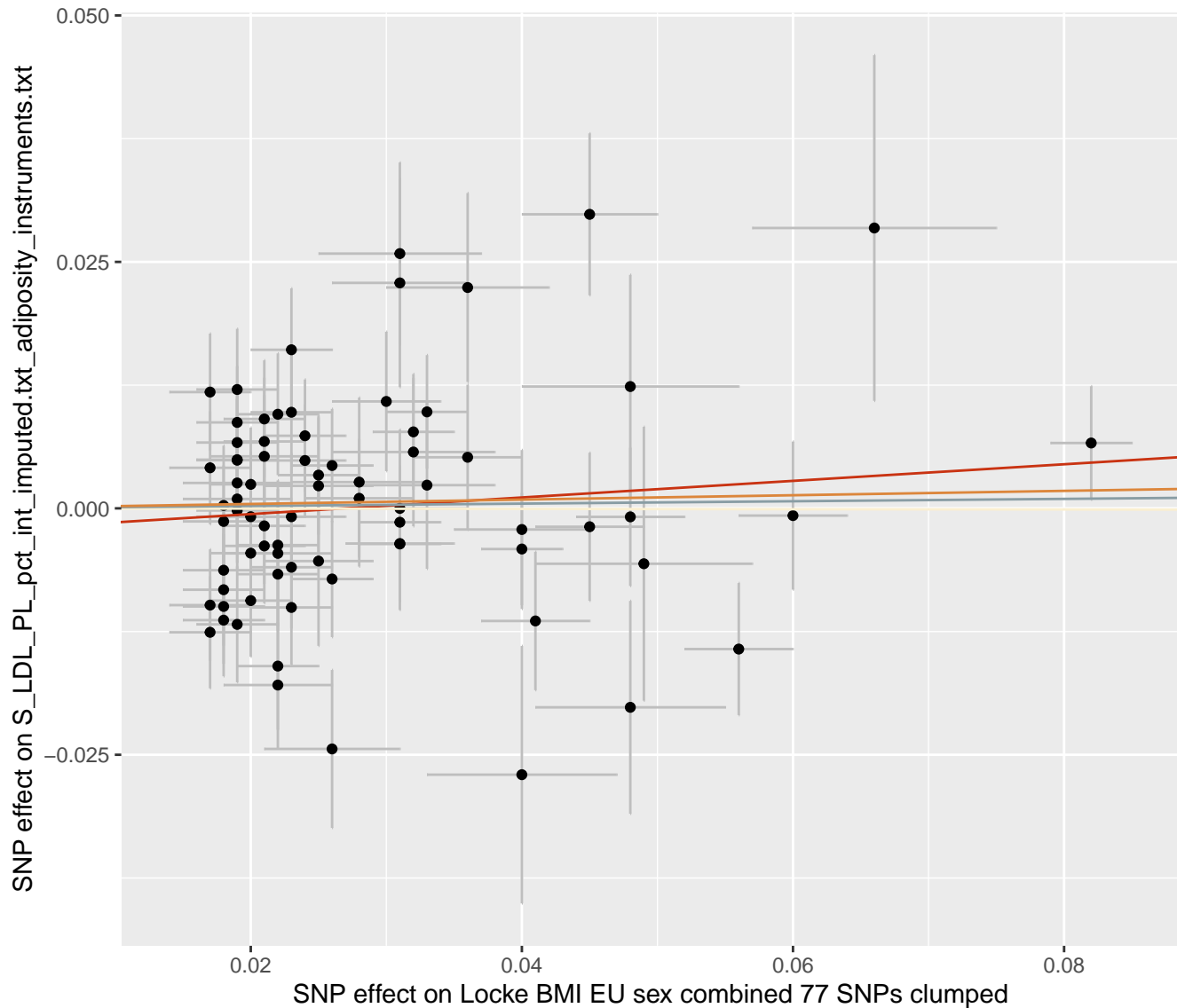


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test



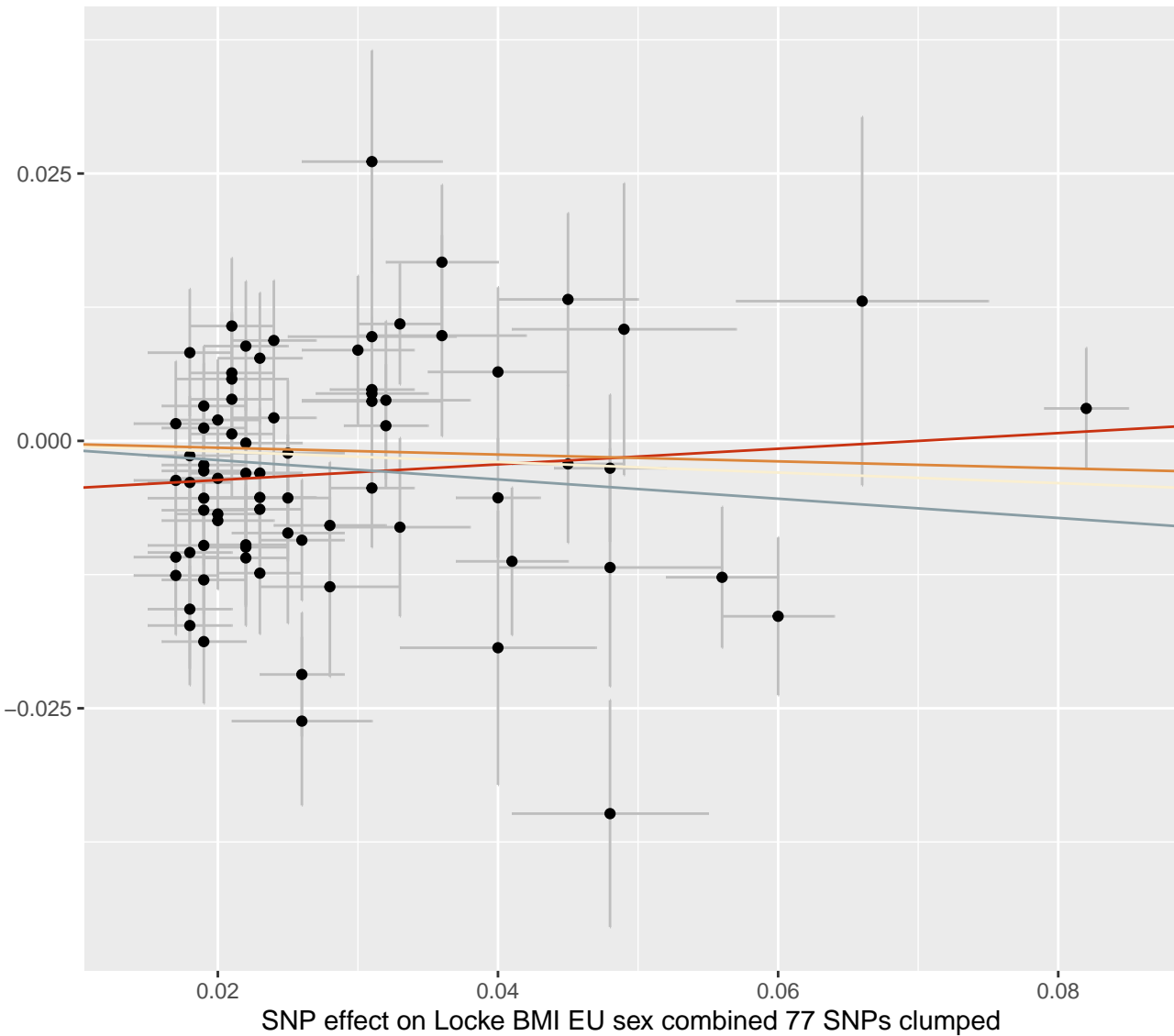
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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



# MR Test



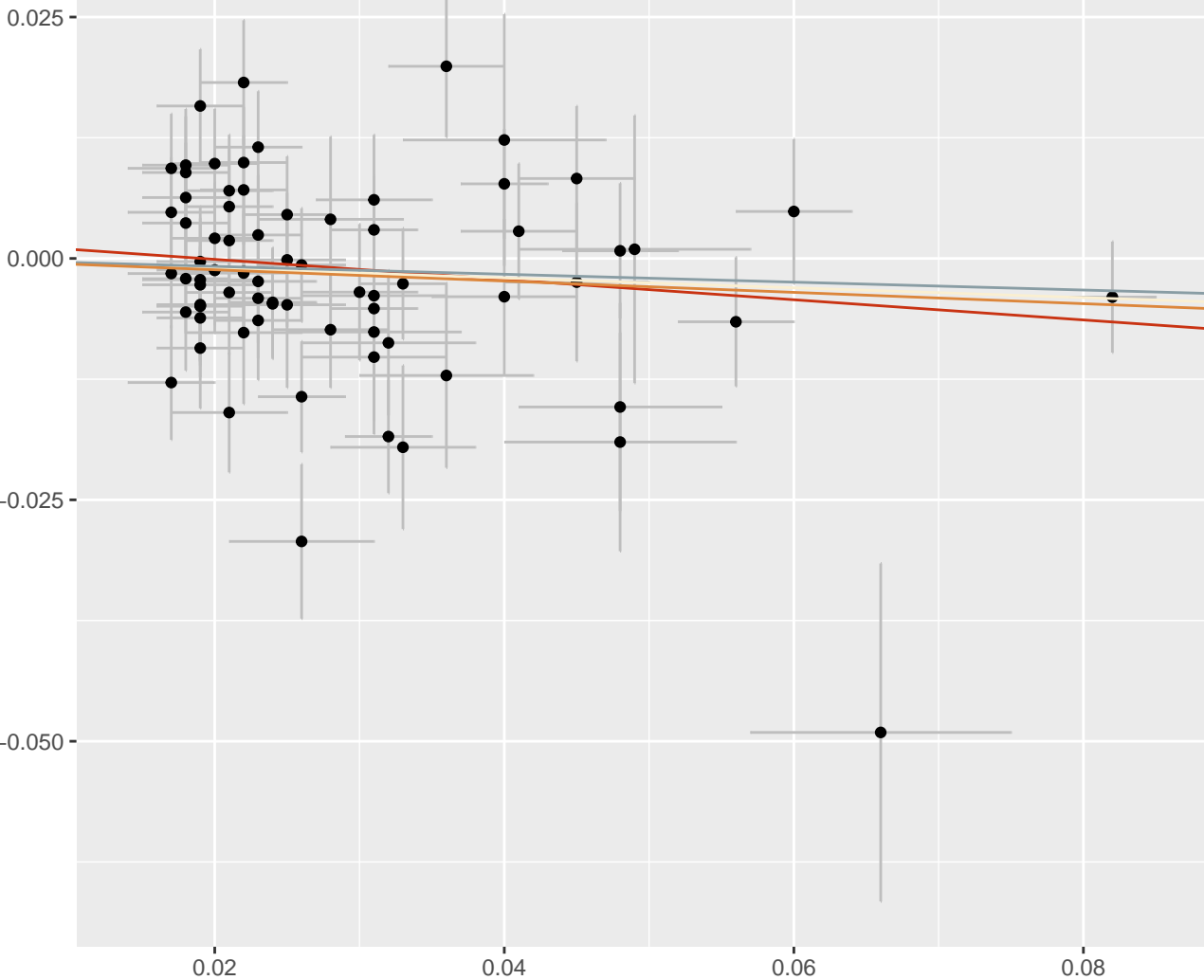
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

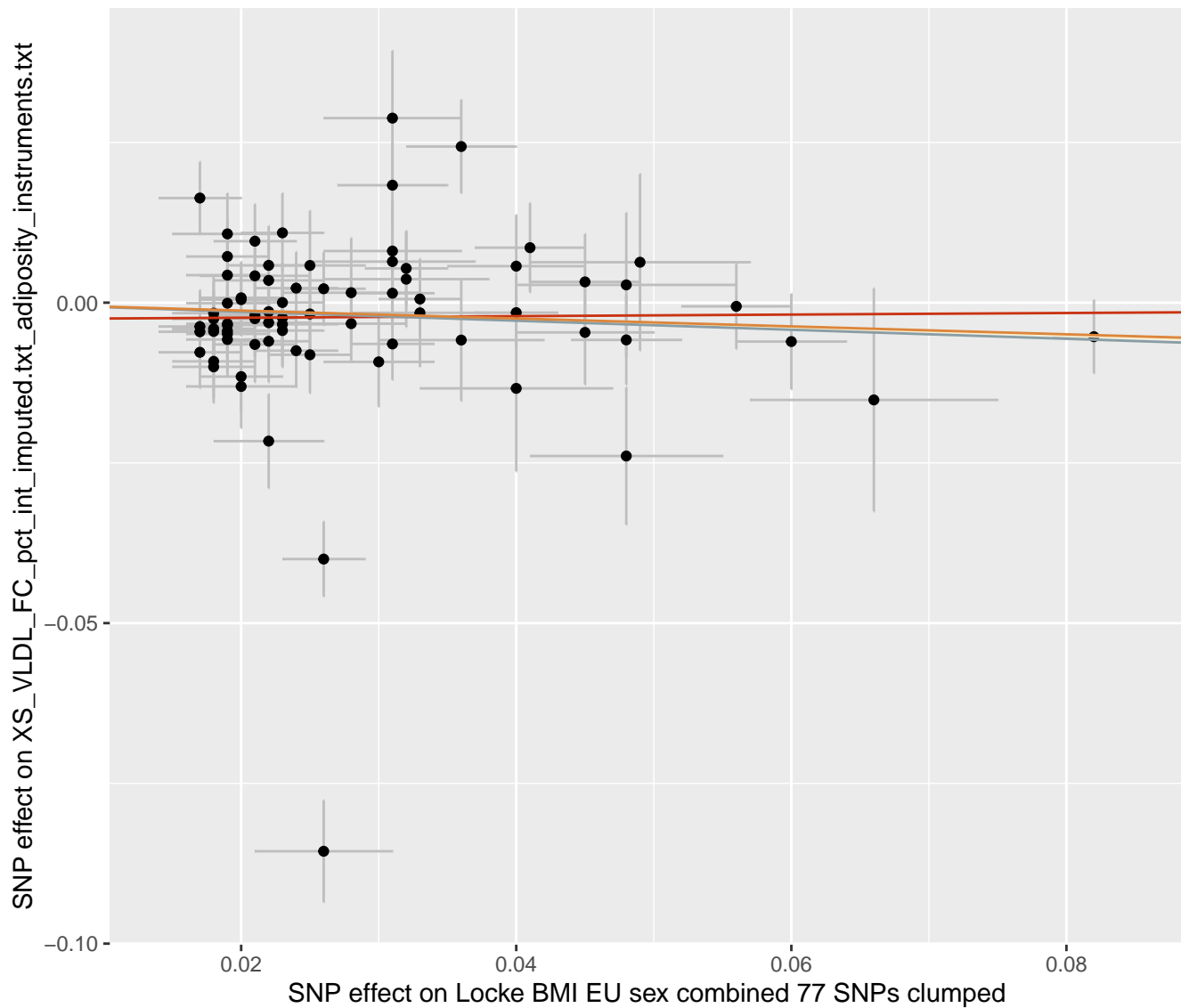
Weighted mode

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



# MR Test

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



# MR Test



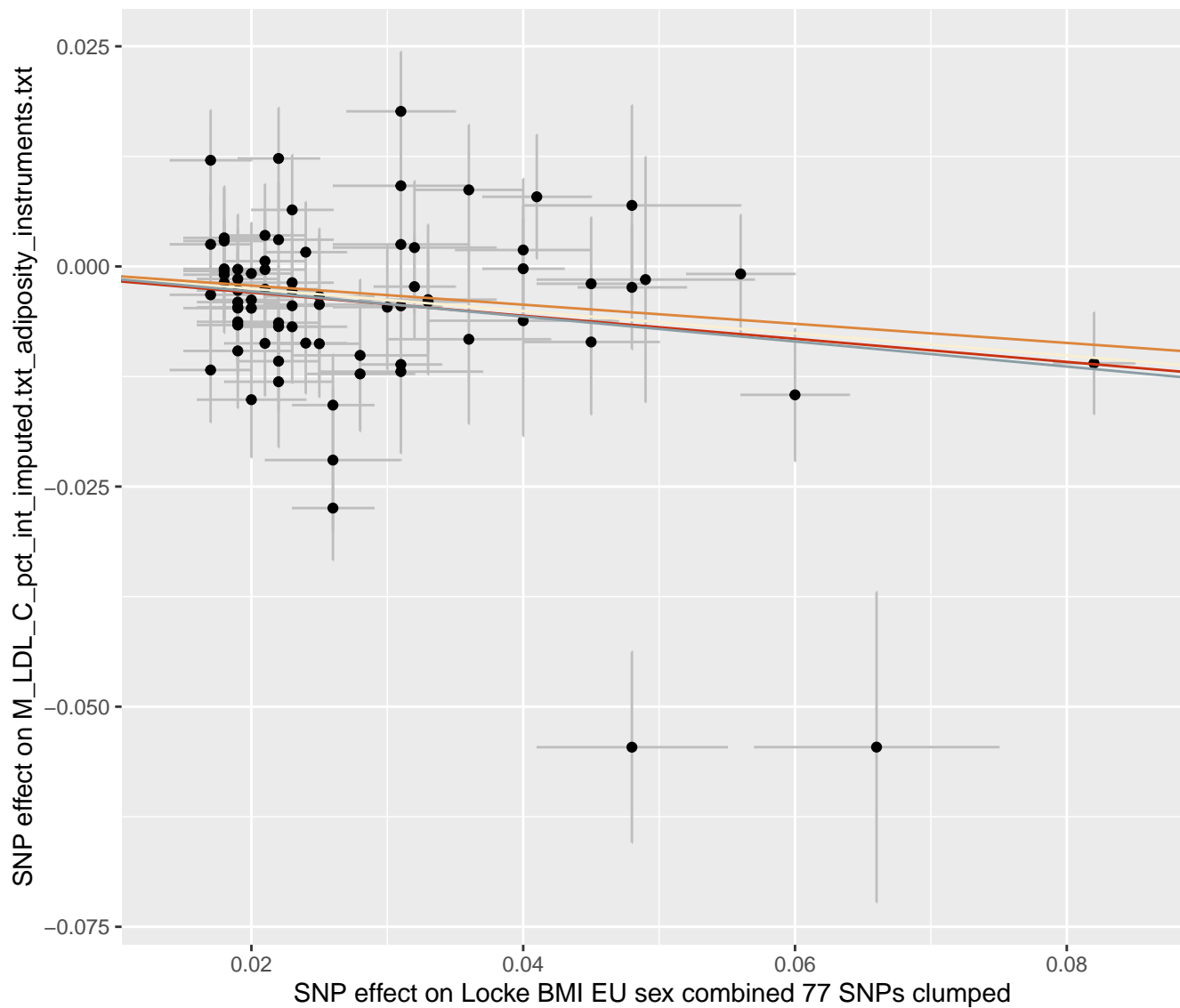
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode





# MR Test



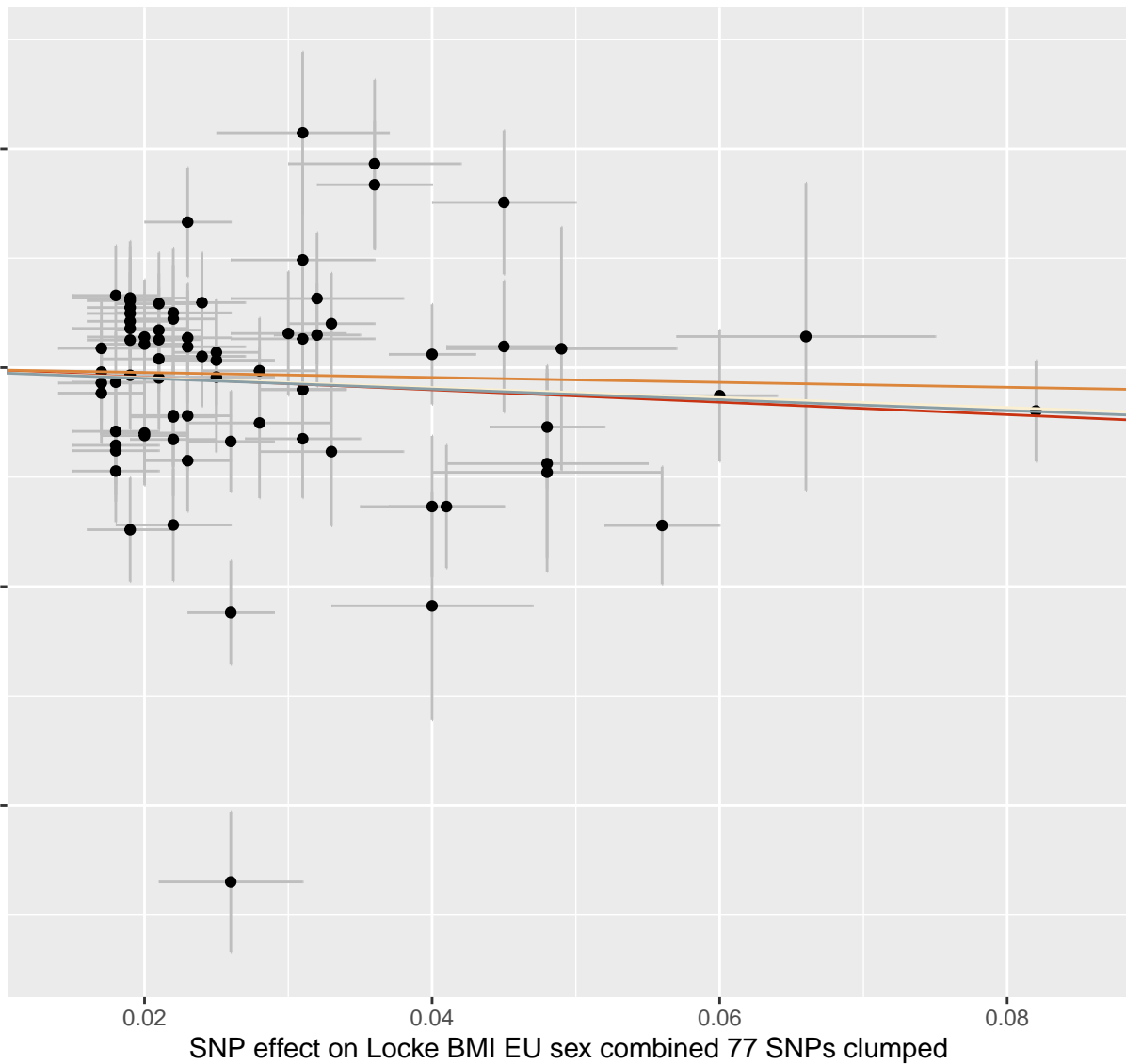
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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



SNP effect on Locke BMI EU sex combined 77 SNPs clumped

# MR Test



Inverse variance weighted (multiplicative random effects)

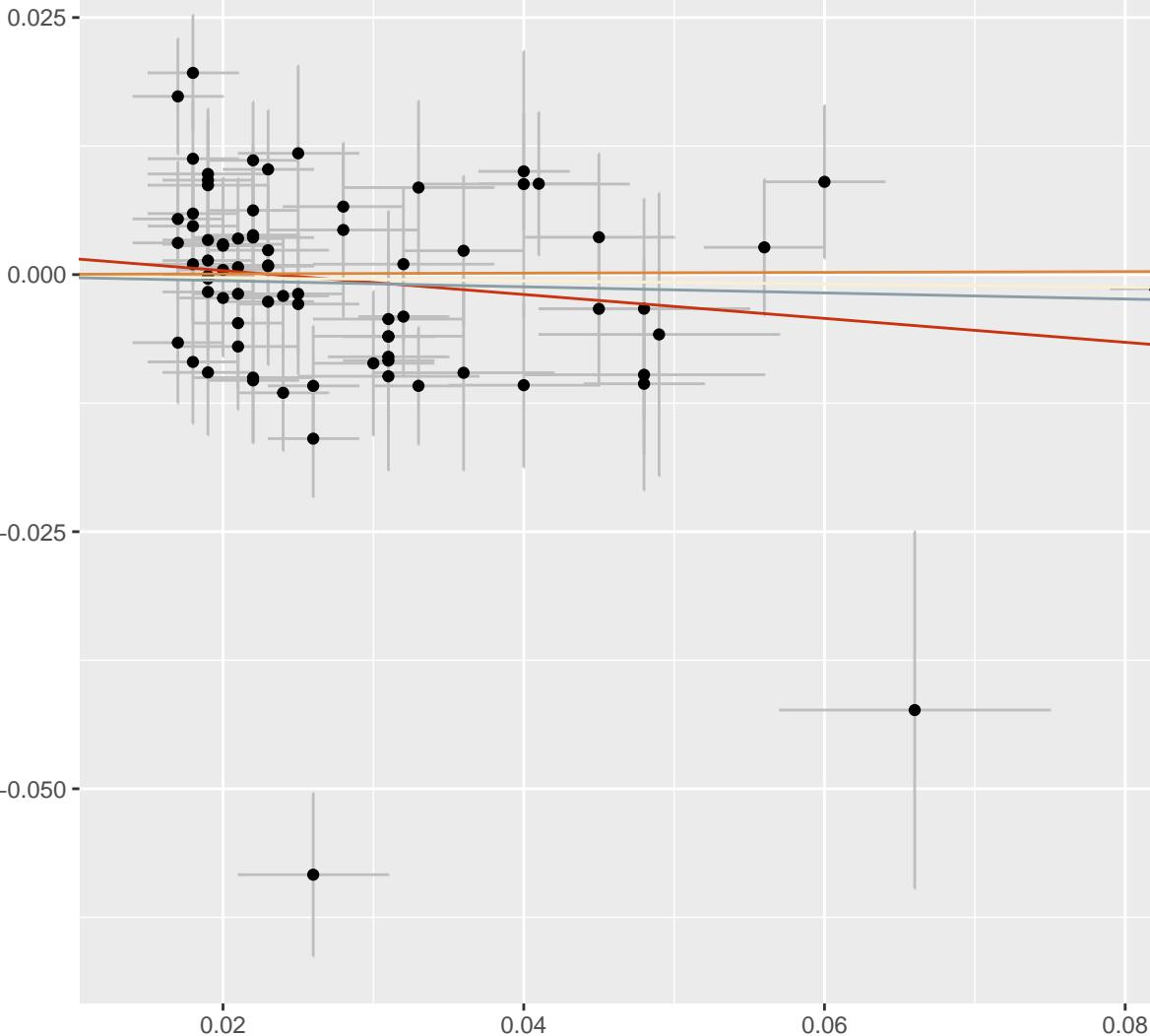
MR Egger



Weighted median

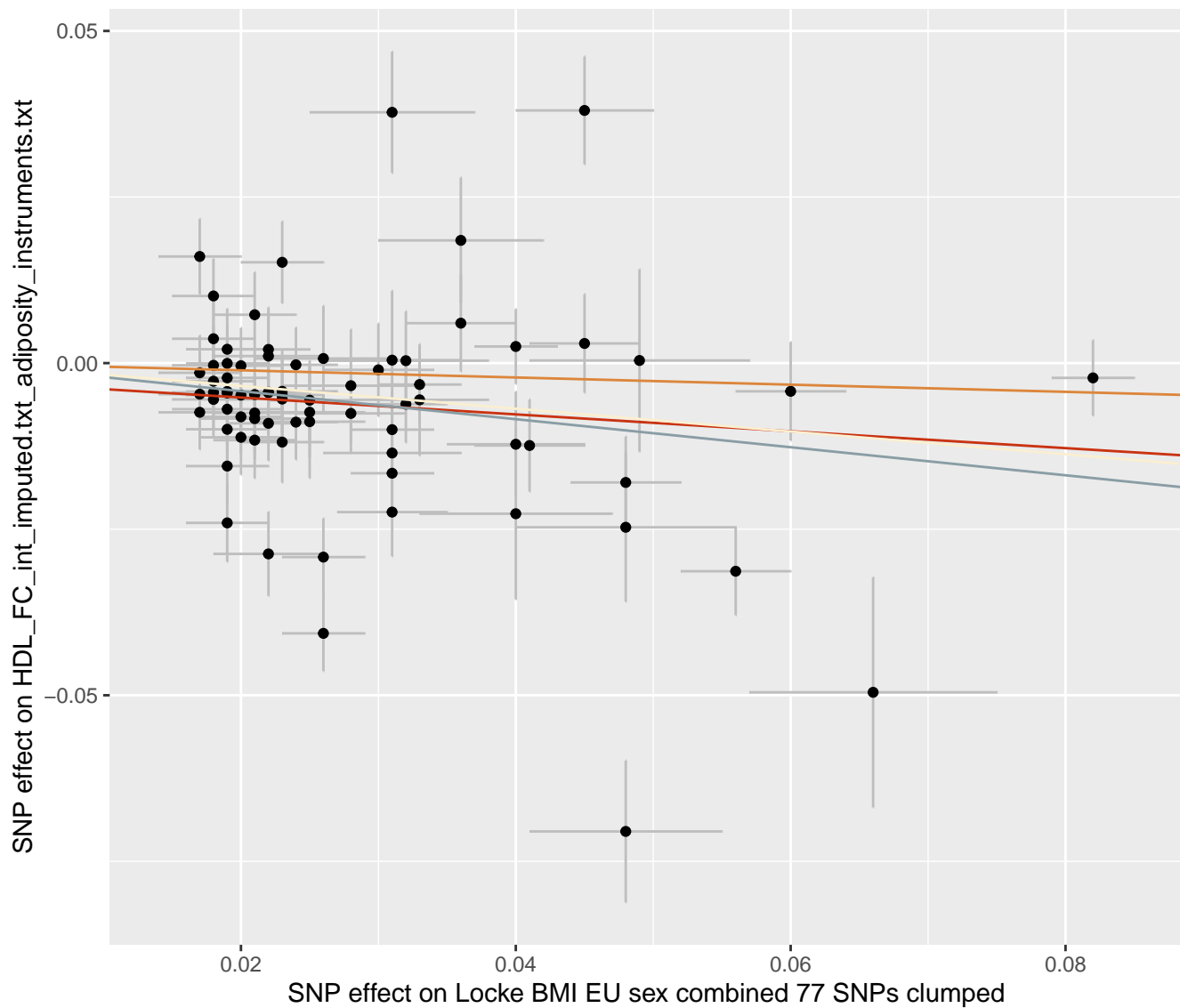
Weighted mode

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



# MR Test

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



# MR Test



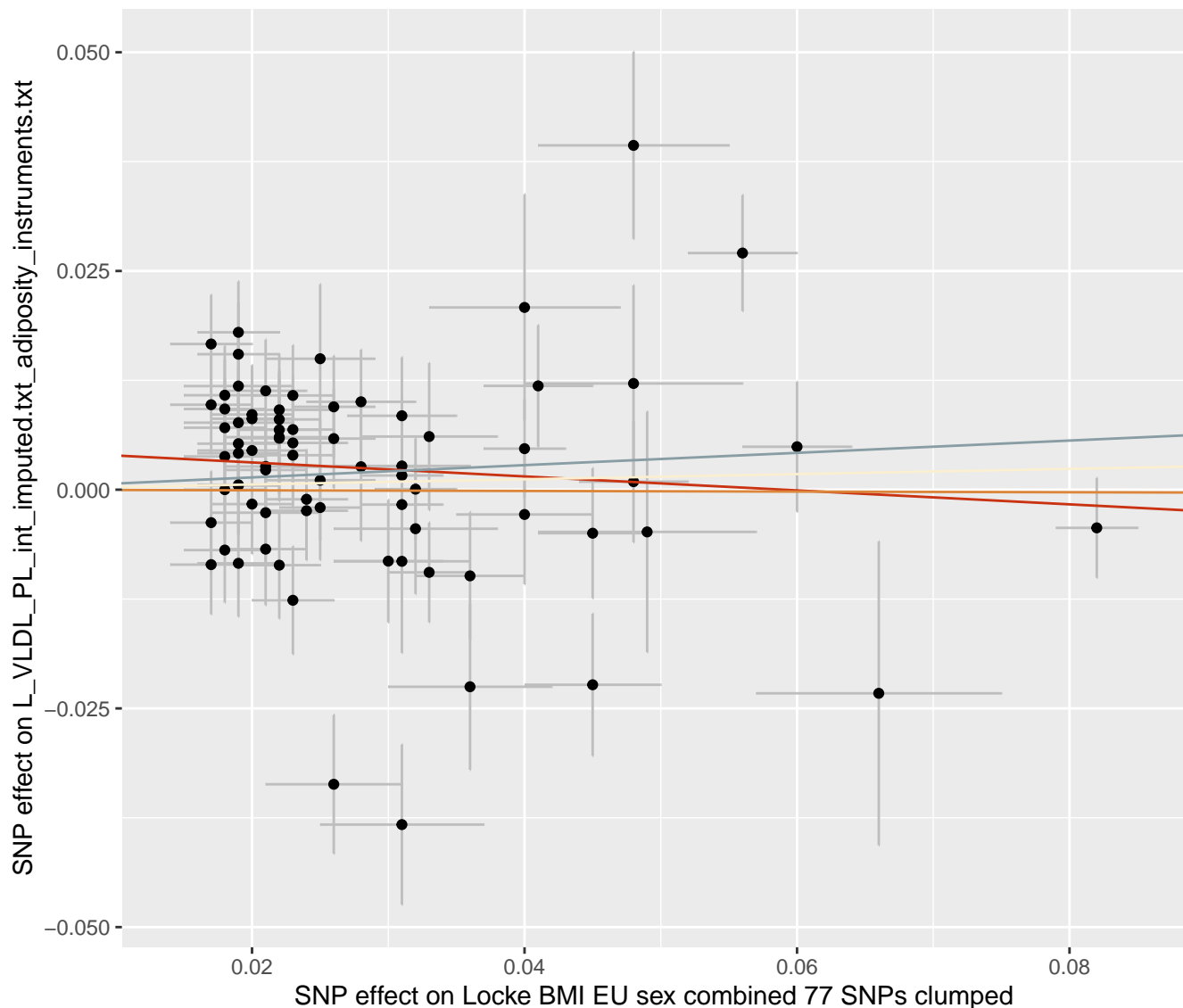
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test

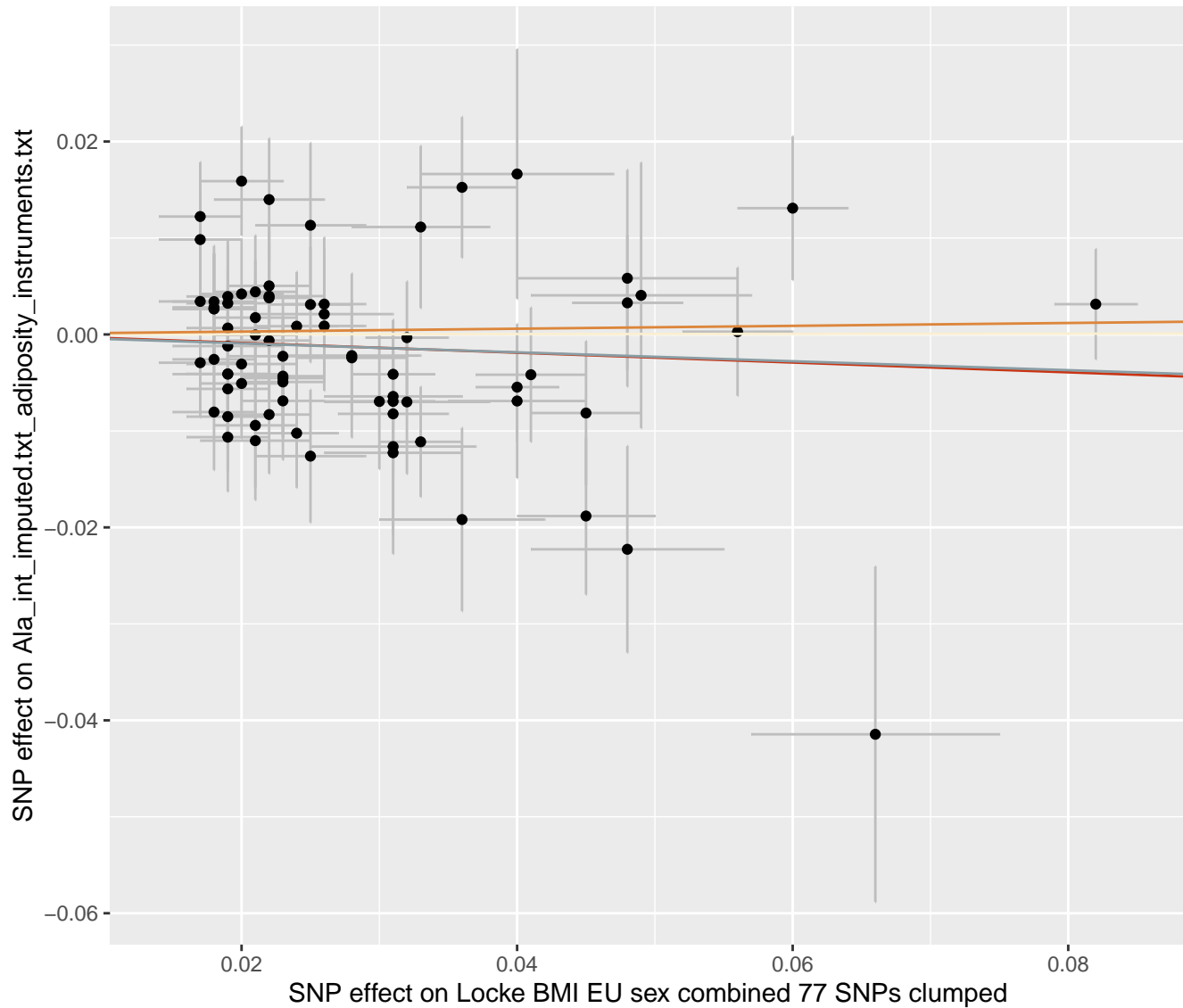


Inverse variance weighted (multiplicative random effects)

MR Egger

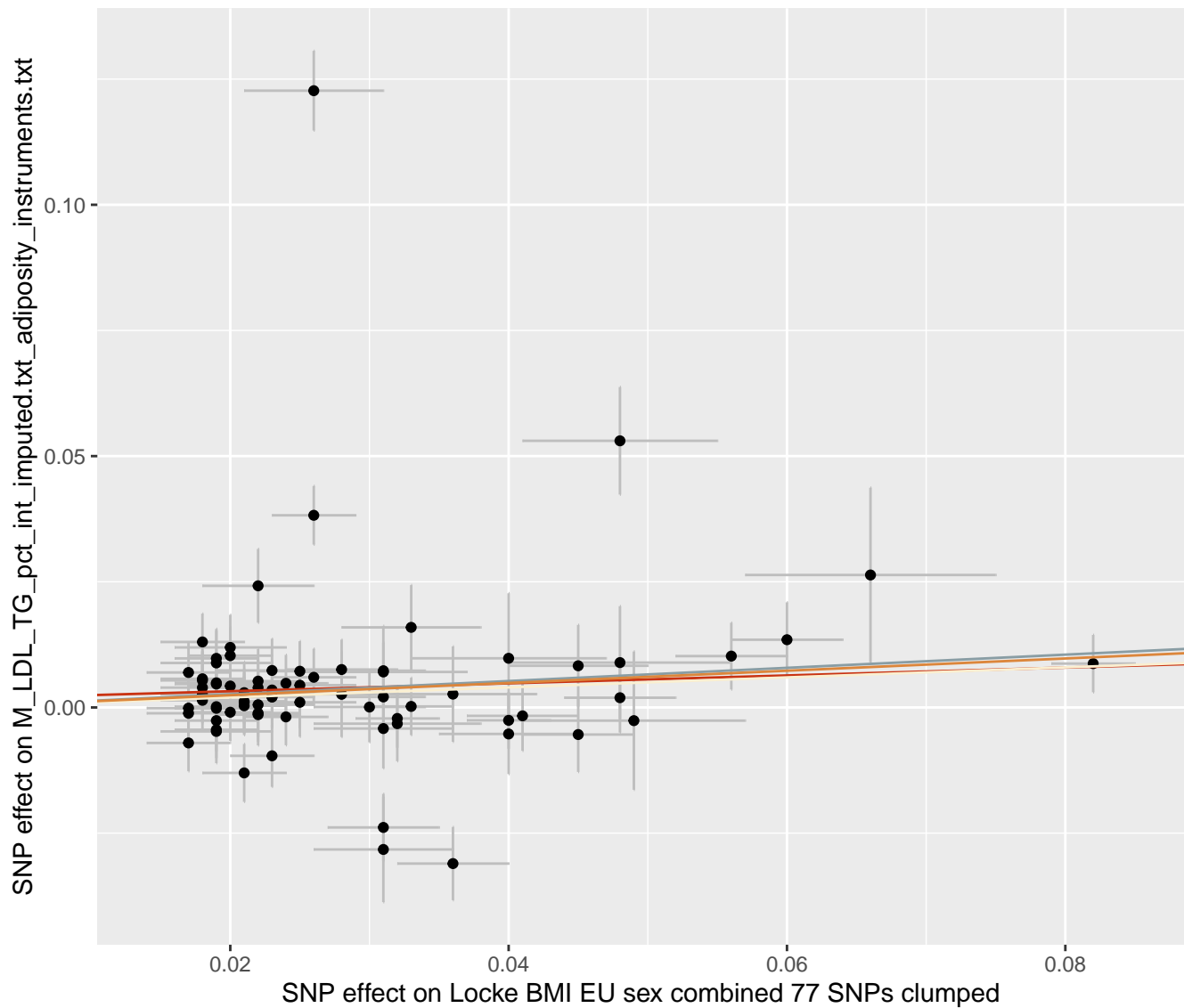
Weighted median

Weighted mode



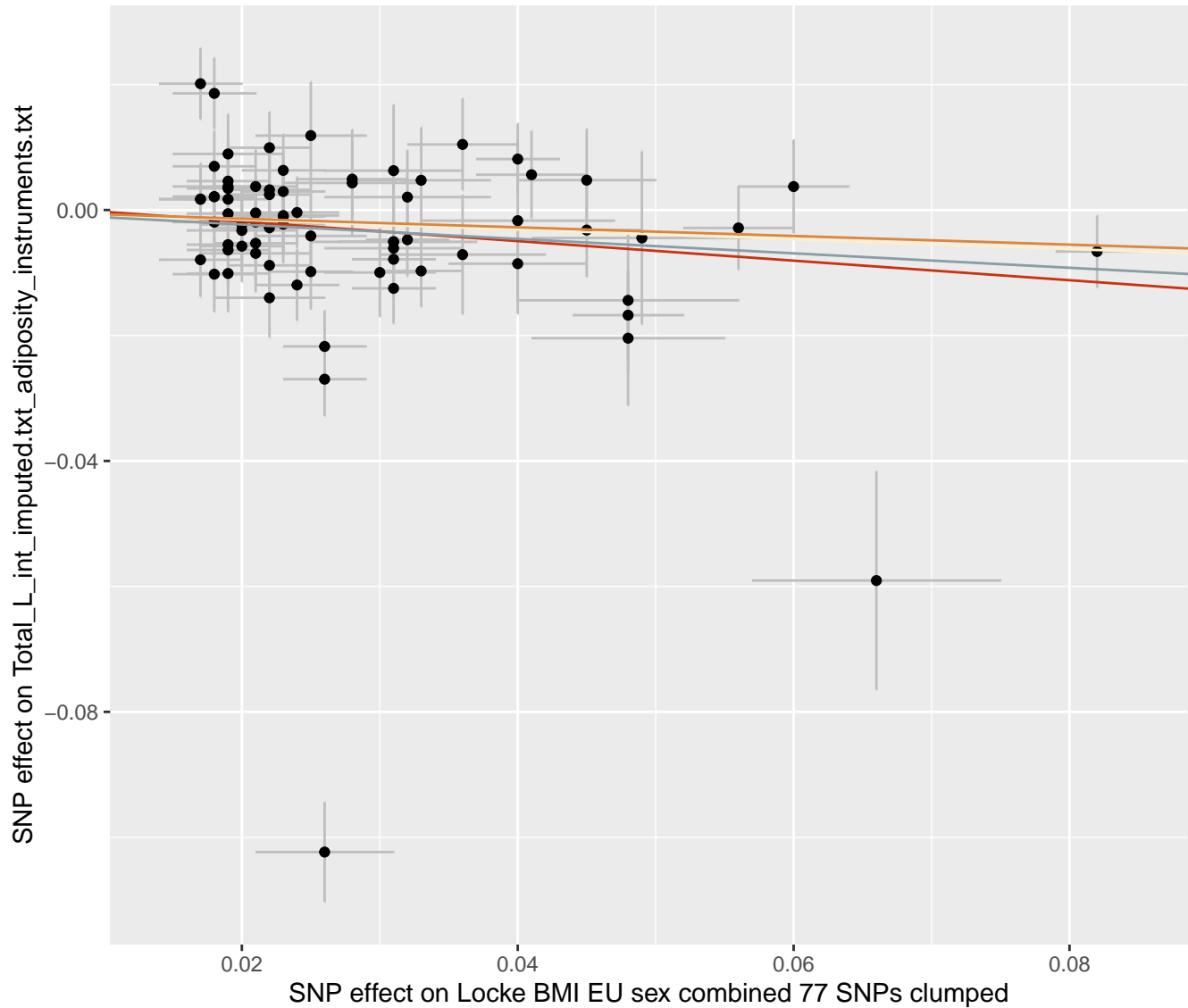
# MR Test

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



# MR Test

- Inverse variance 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\_C\_int\_imputed.txt\_adiposity\_instruments.txt

0.00

-0.05

-0.10

-0.15

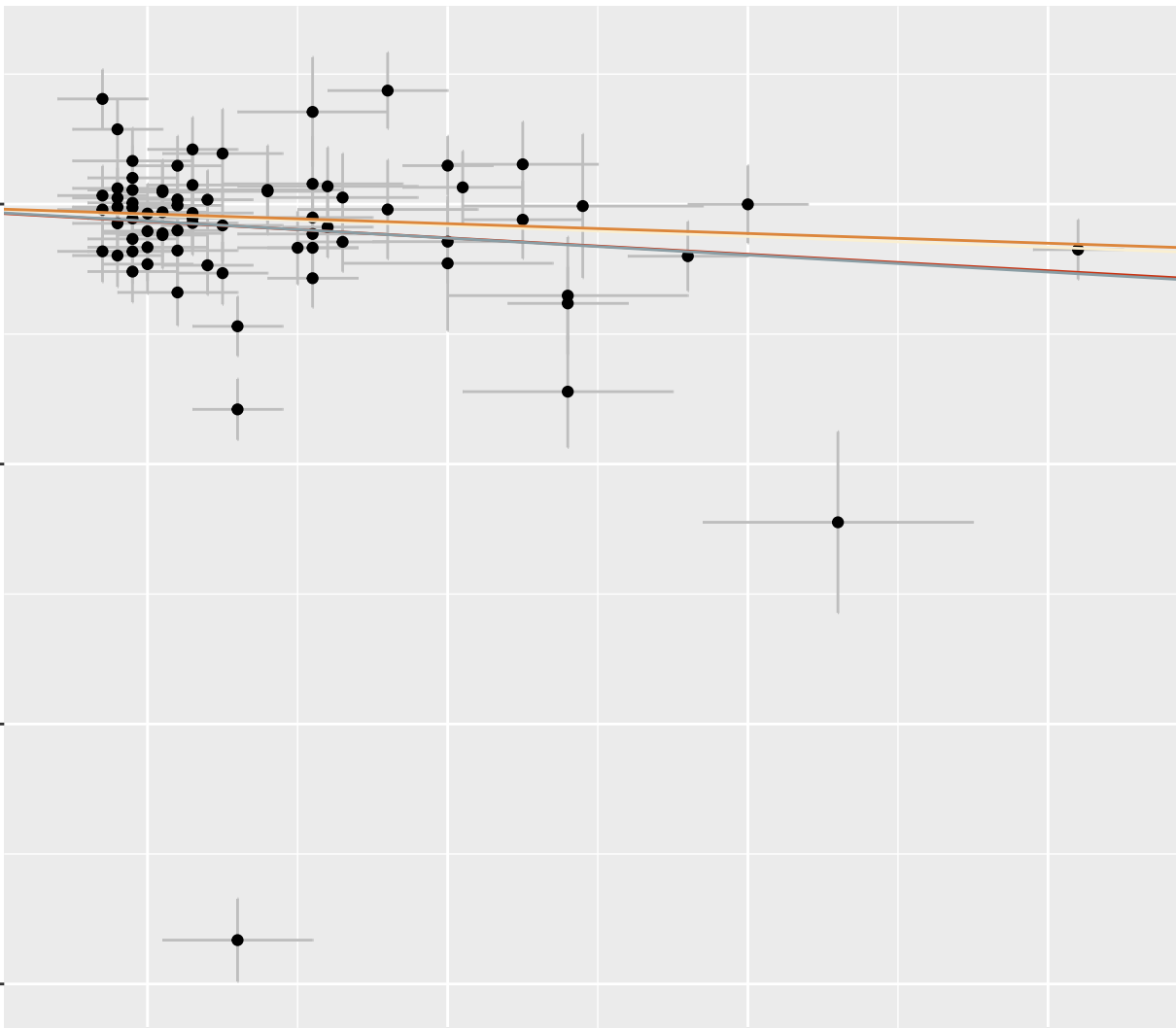
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped





# MR Test



Inverse variance weighted (multiplicative random effects)

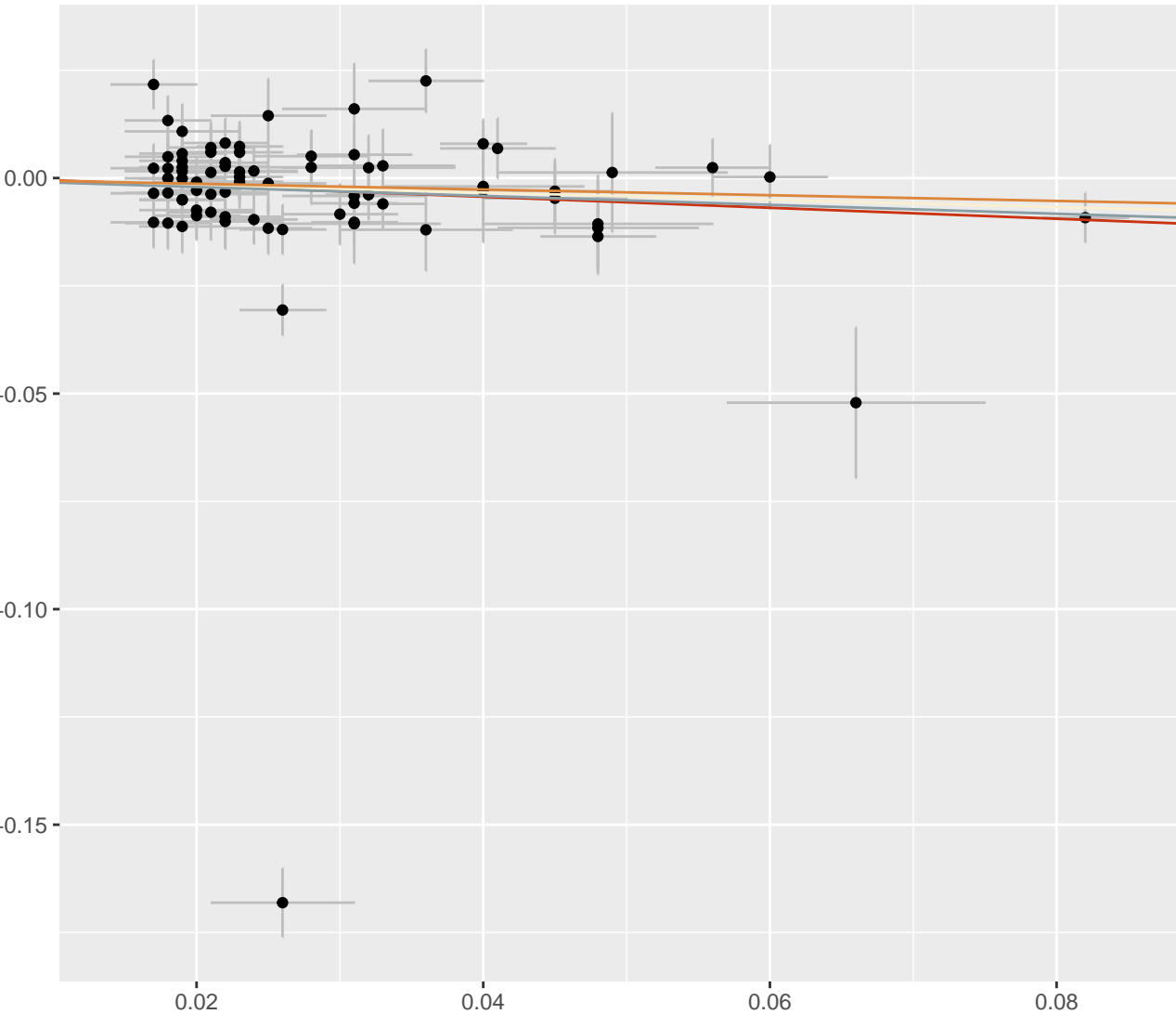
MR Egger



Weighted median

Weighted mode

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



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.00

-0.05

-0.10

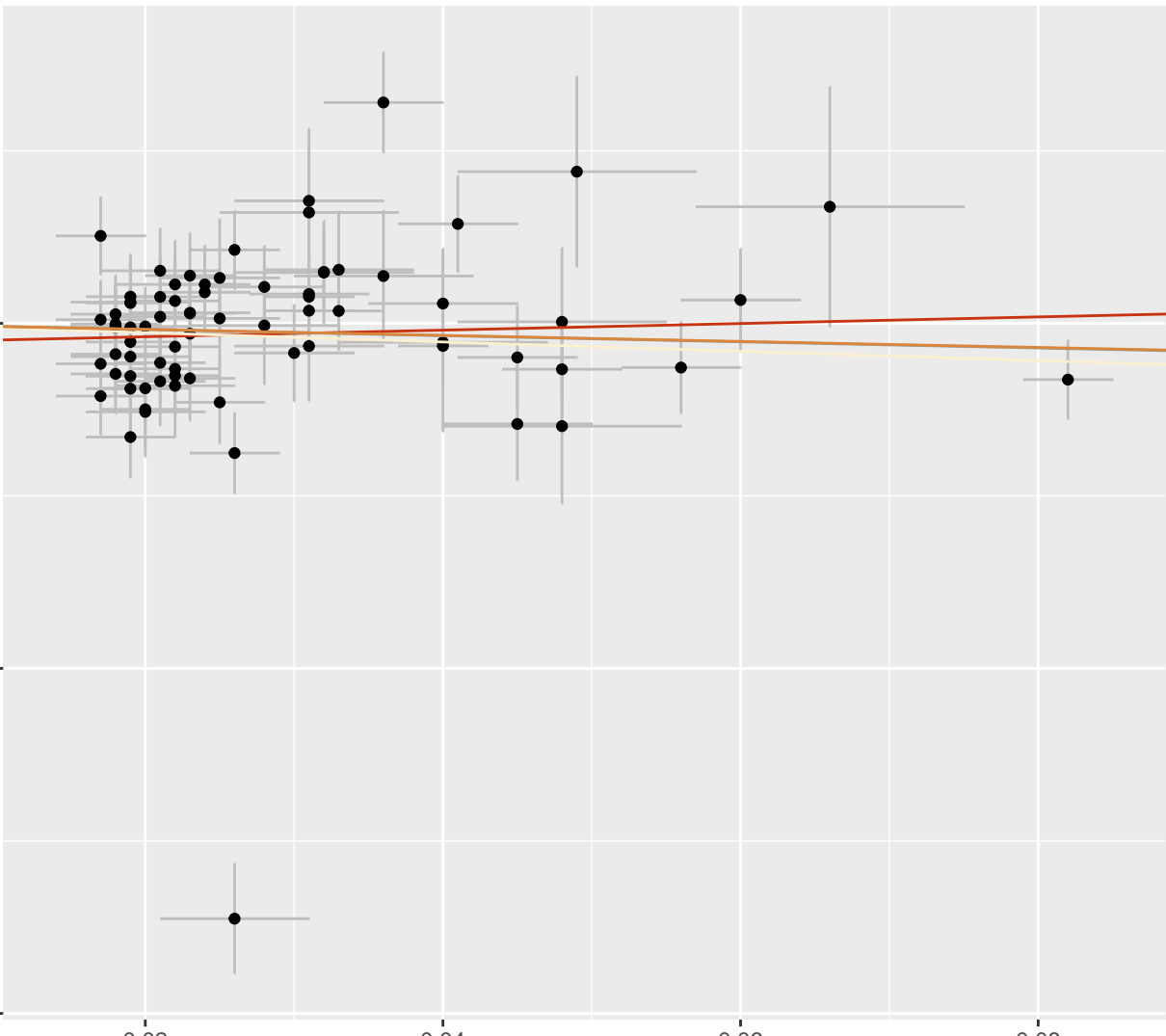
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# 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

0.000

-0.025

-0.050

-0.075

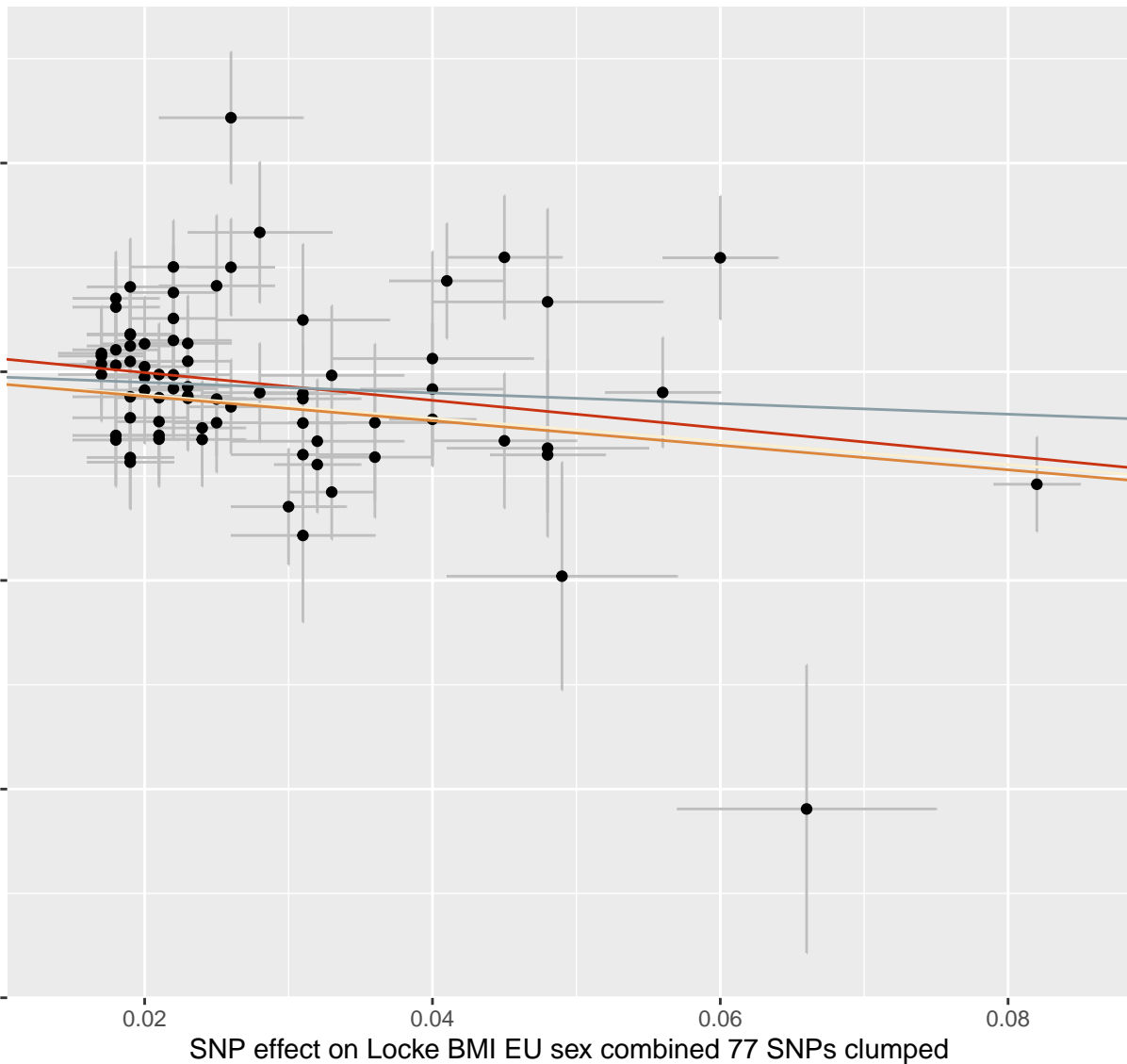
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test



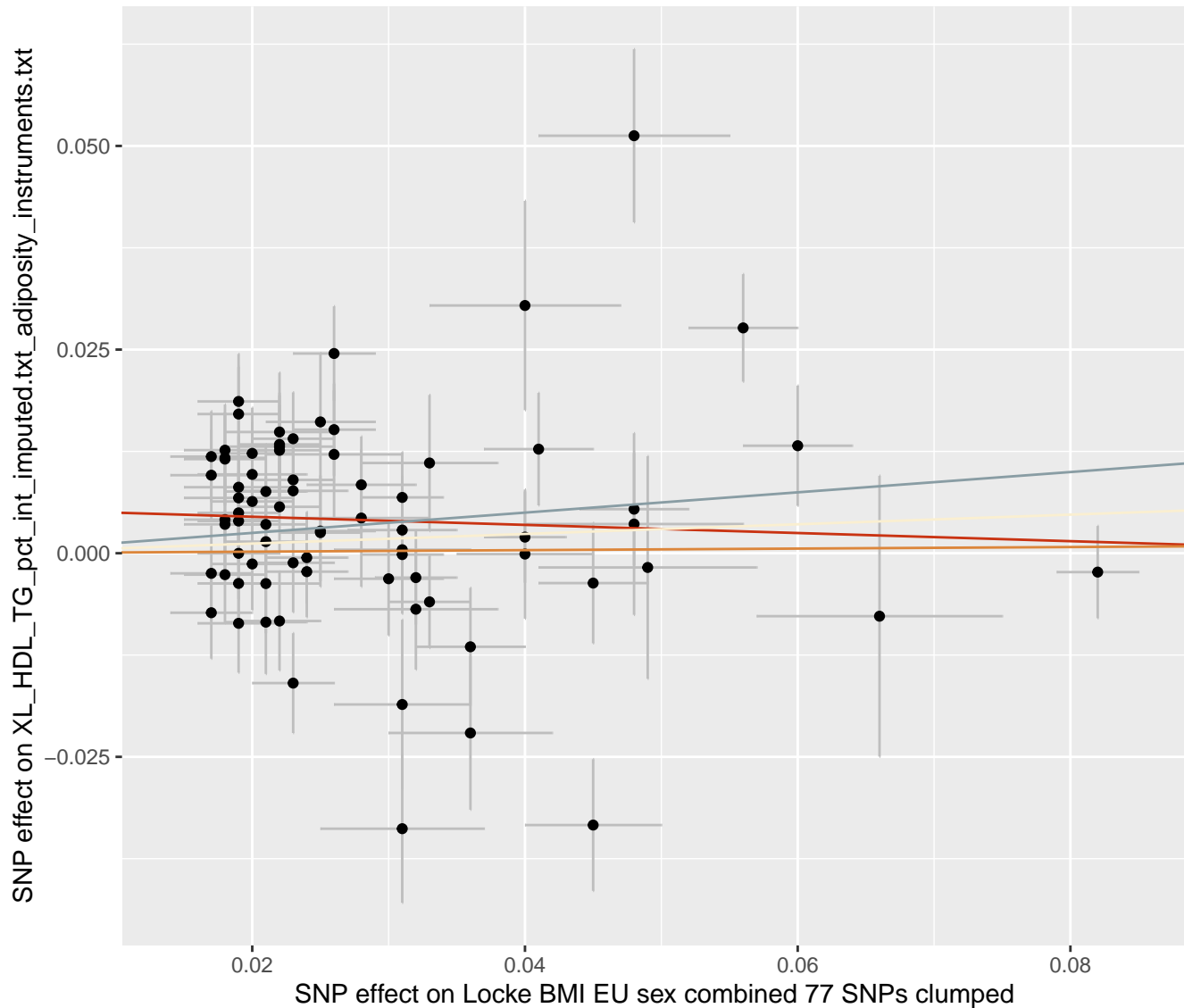
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test

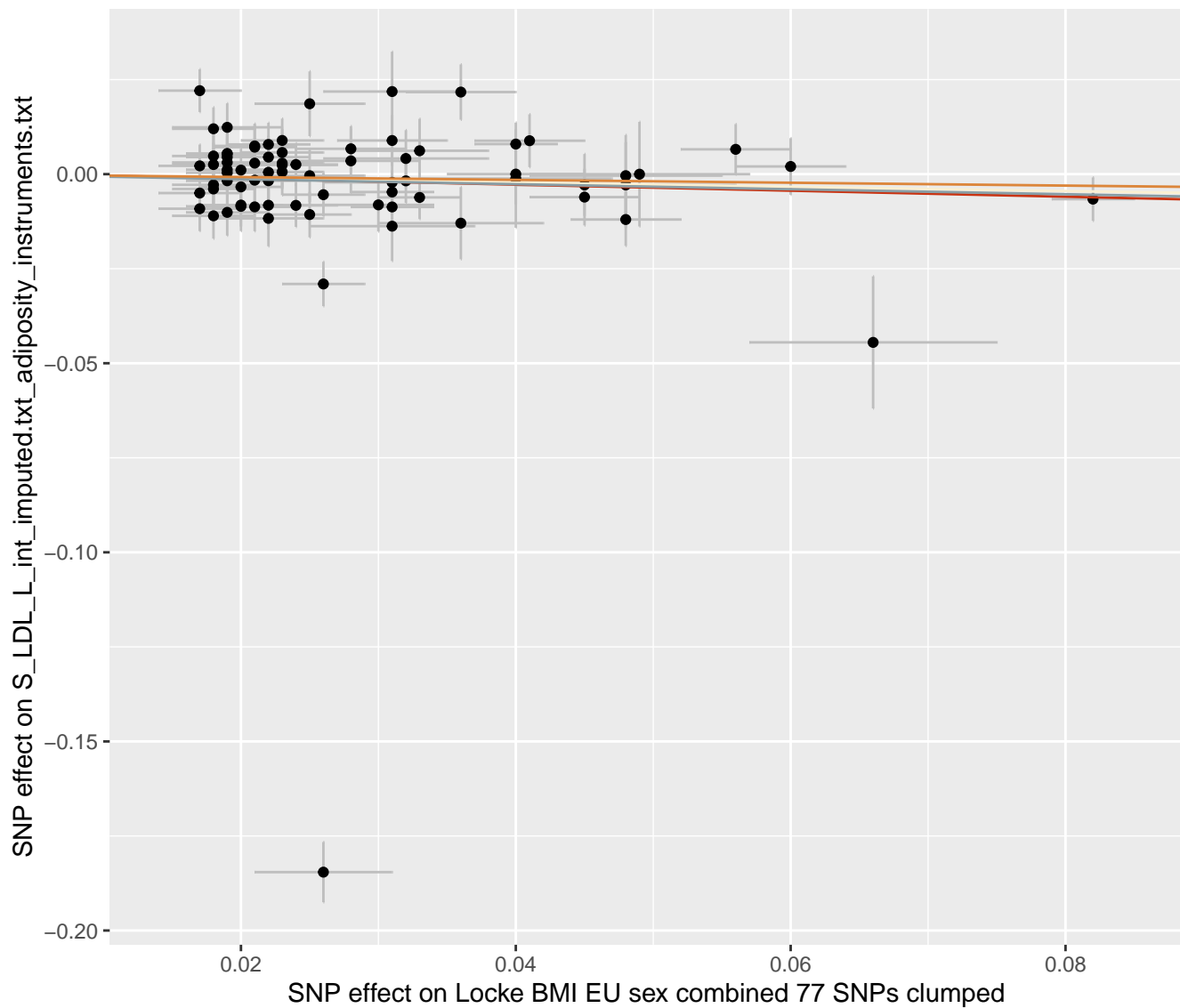


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode

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

0.050

0.025

0.000

-0.025

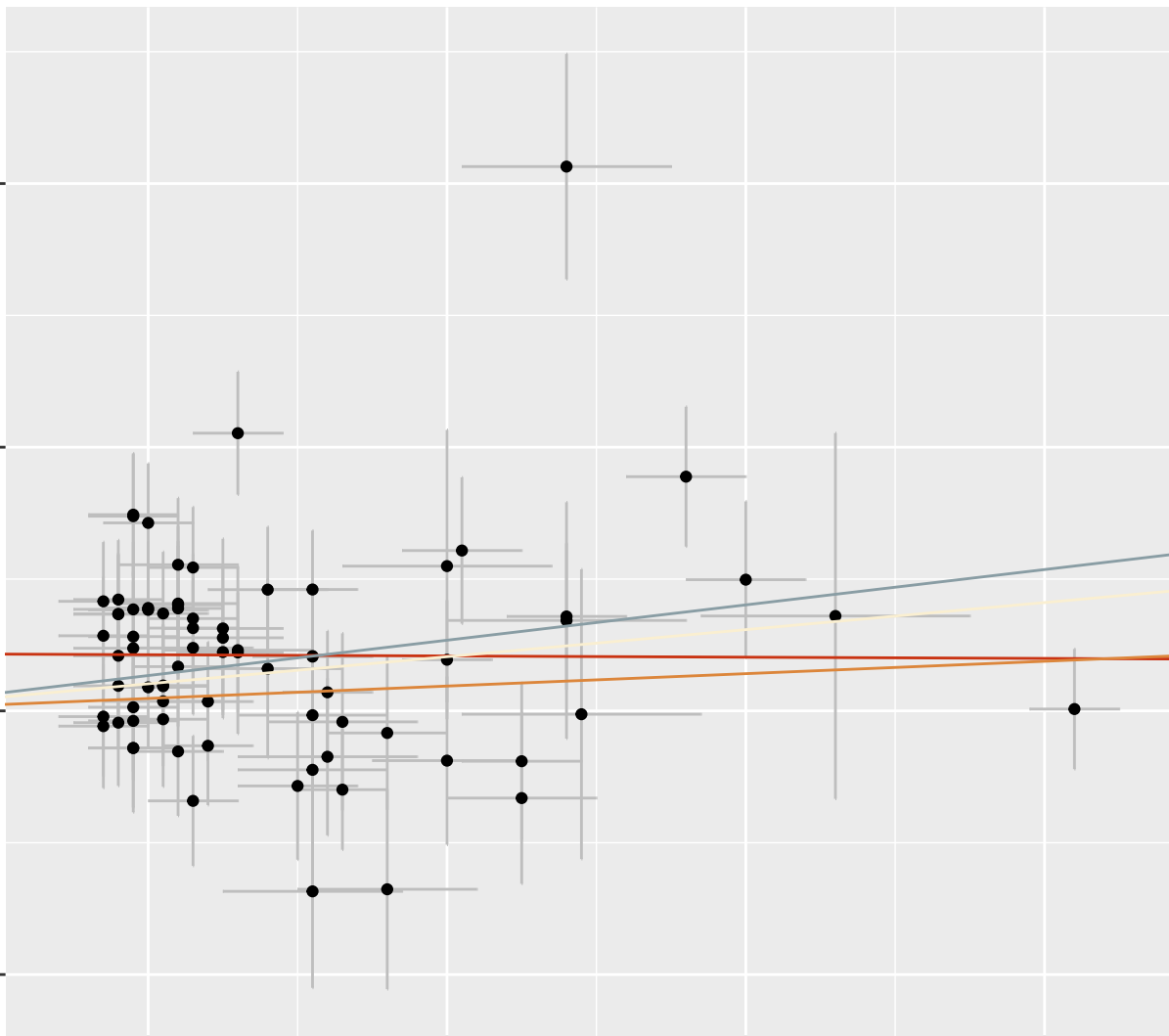
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test



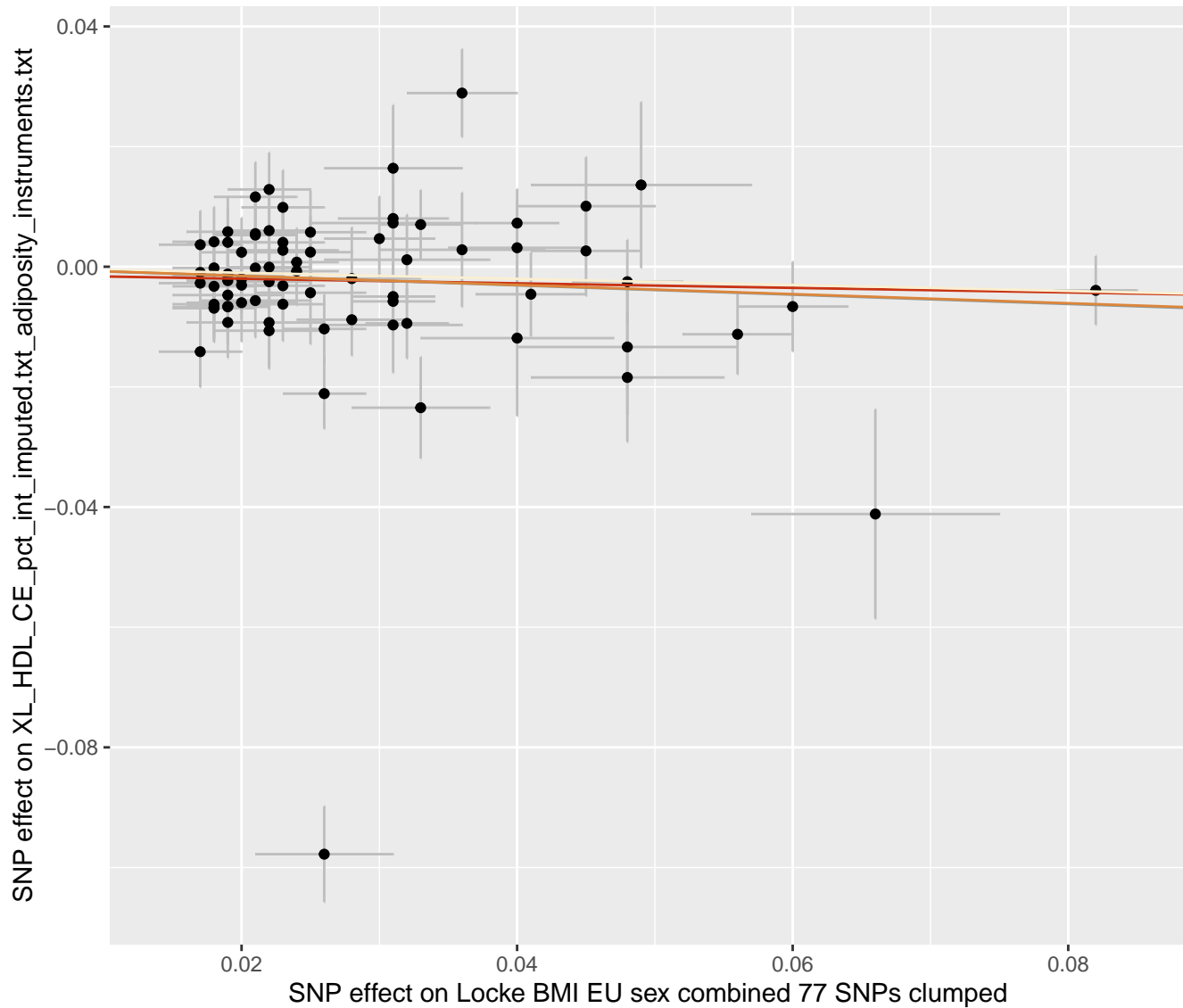
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode

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

0.00

-0.05

-0.10

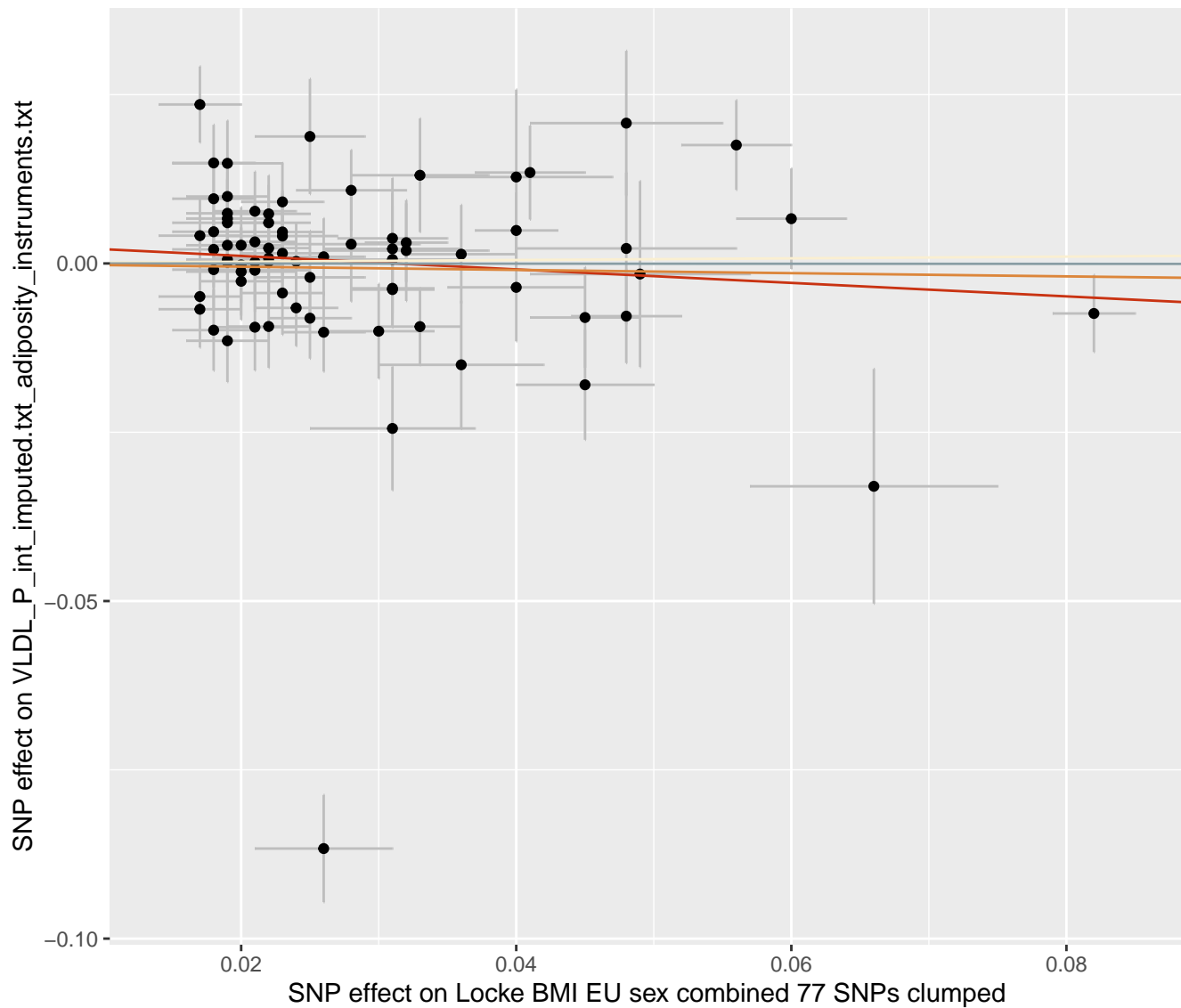
0.02

0.04

0.06

0.08

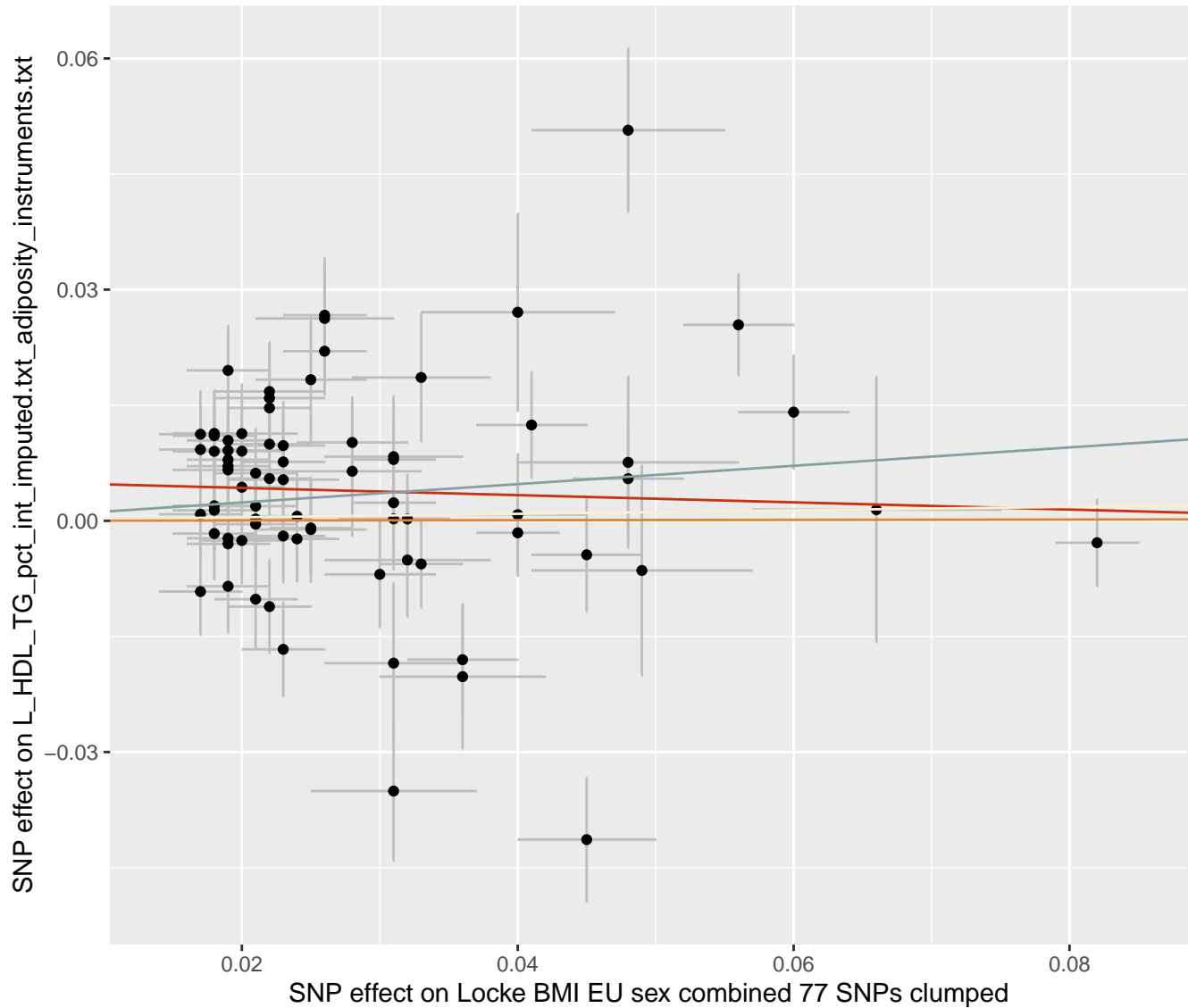
SNP effect on Locke BMI EU sex combined 77 SNPs clumped





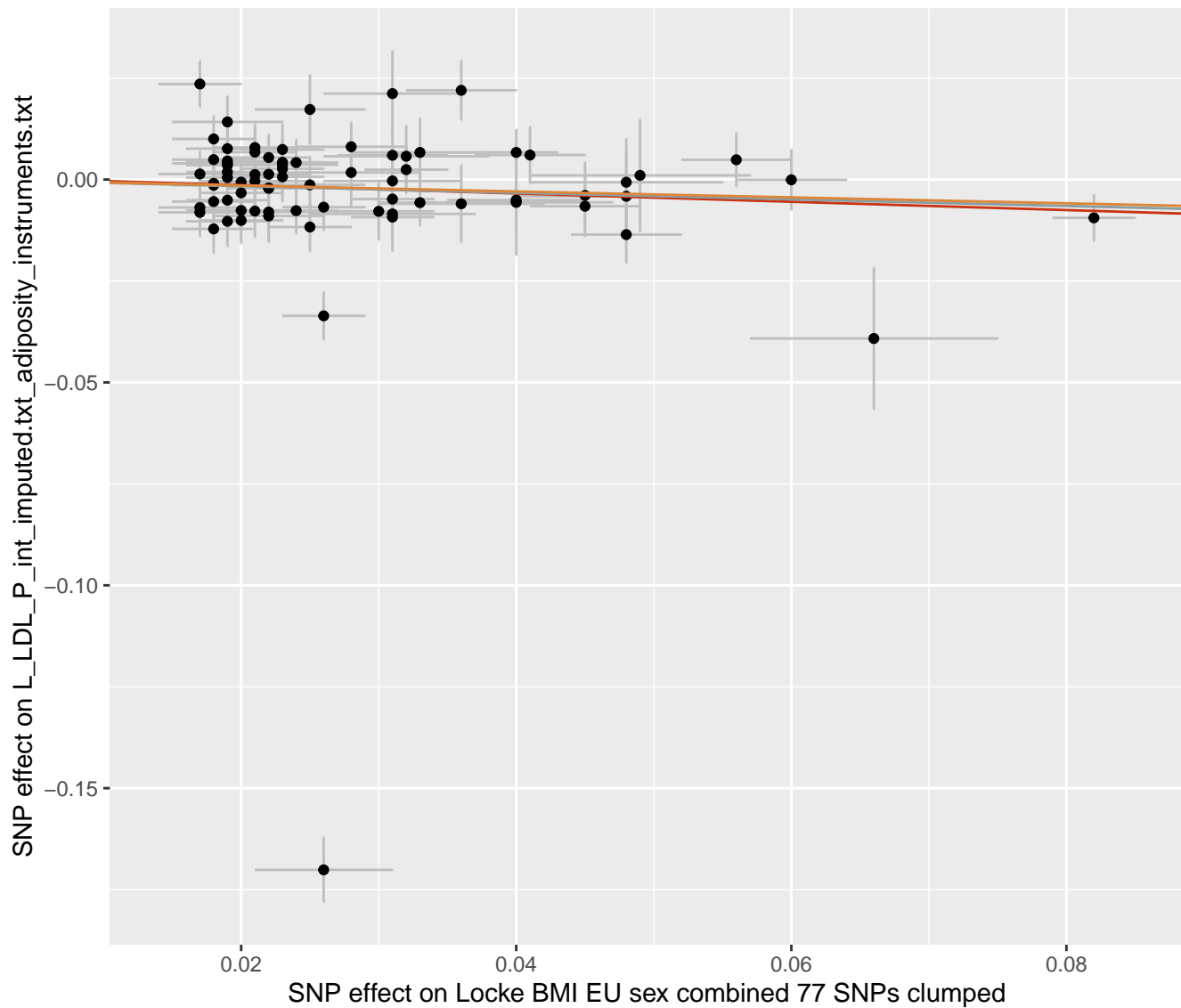
# MR Test

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



# MR Test

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



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.025  
0.000  
-0.025

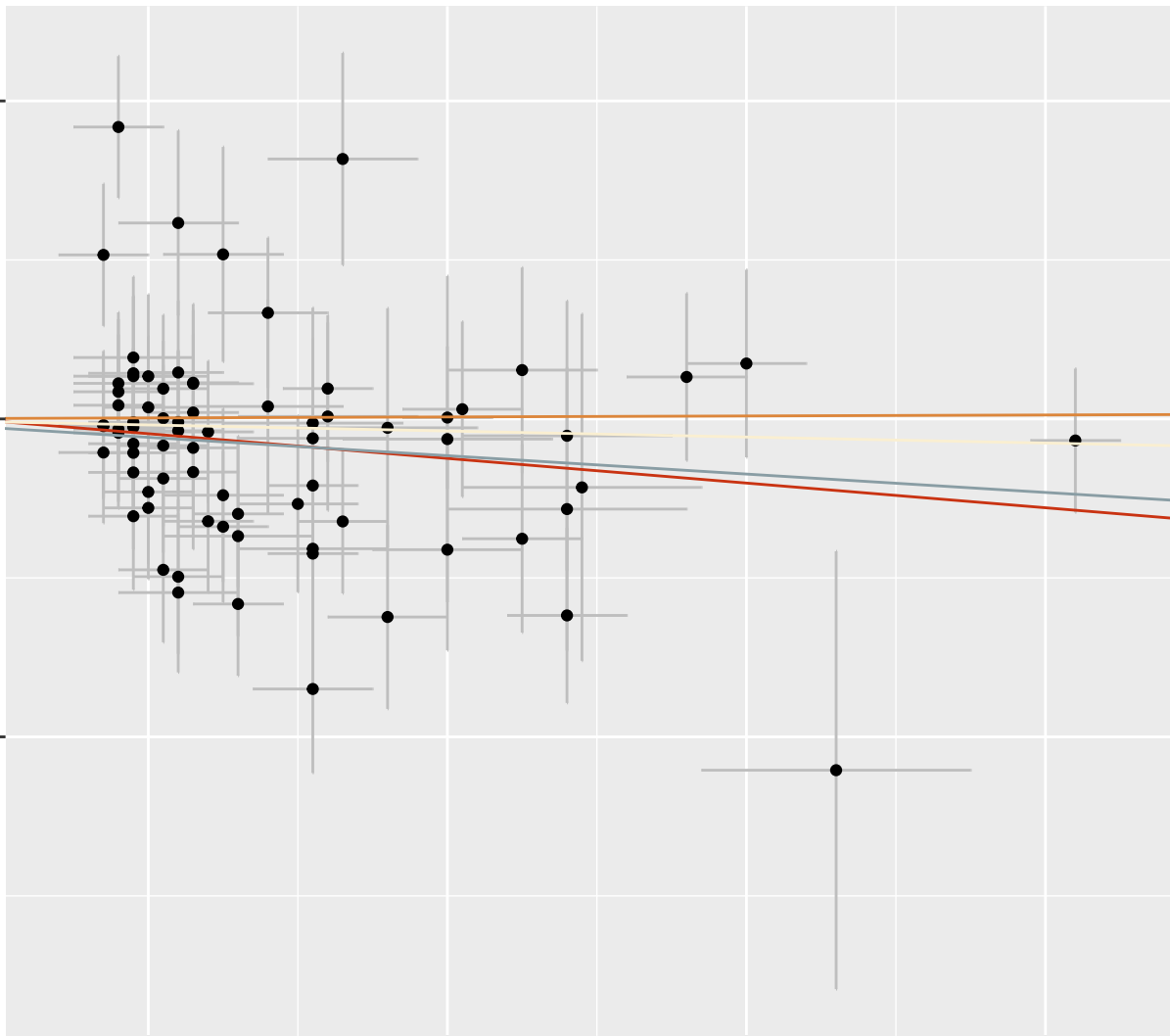
0.02

0.04

0.06

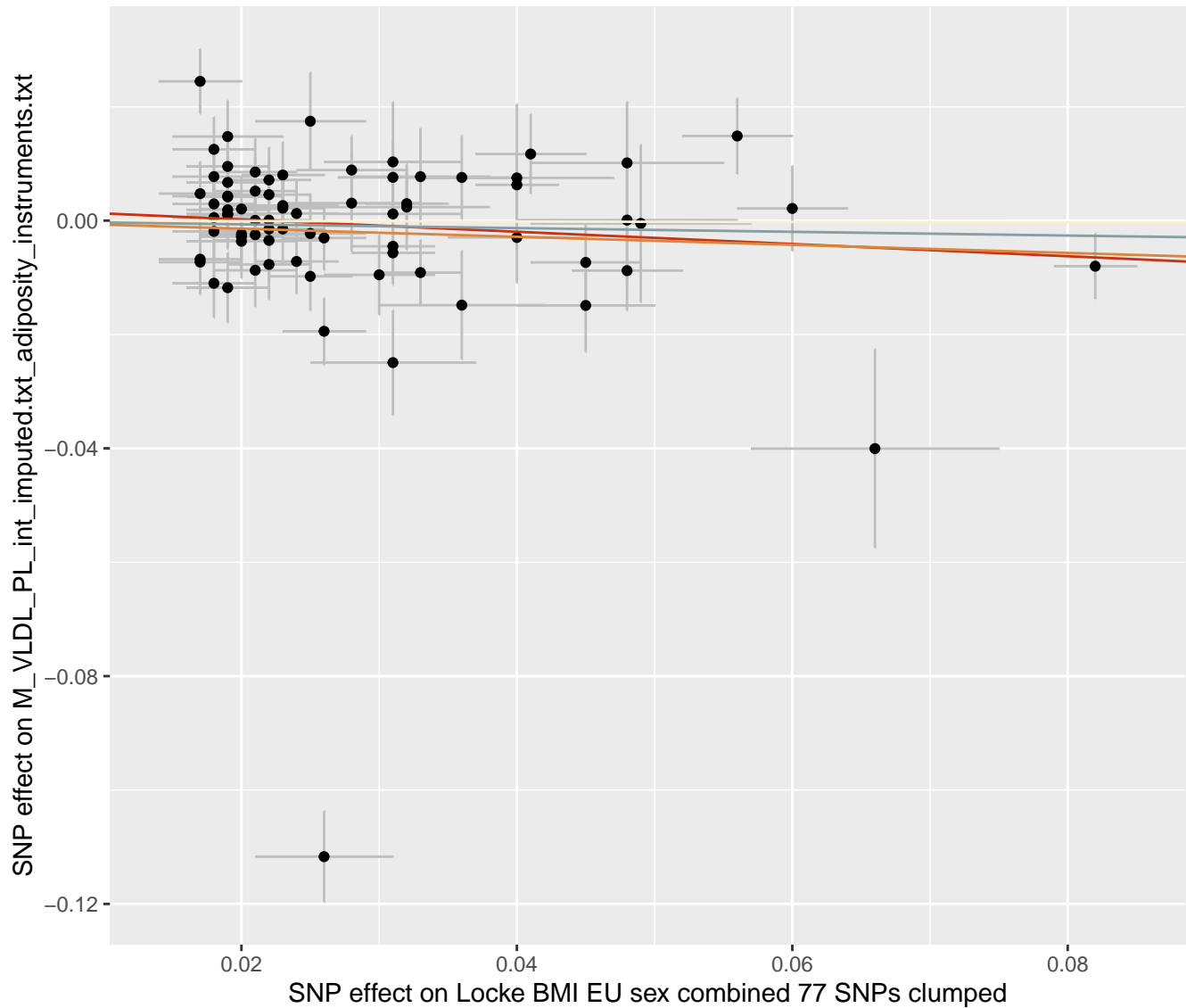
0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test

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



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.02  
0.00  
-0.02  
-0.04

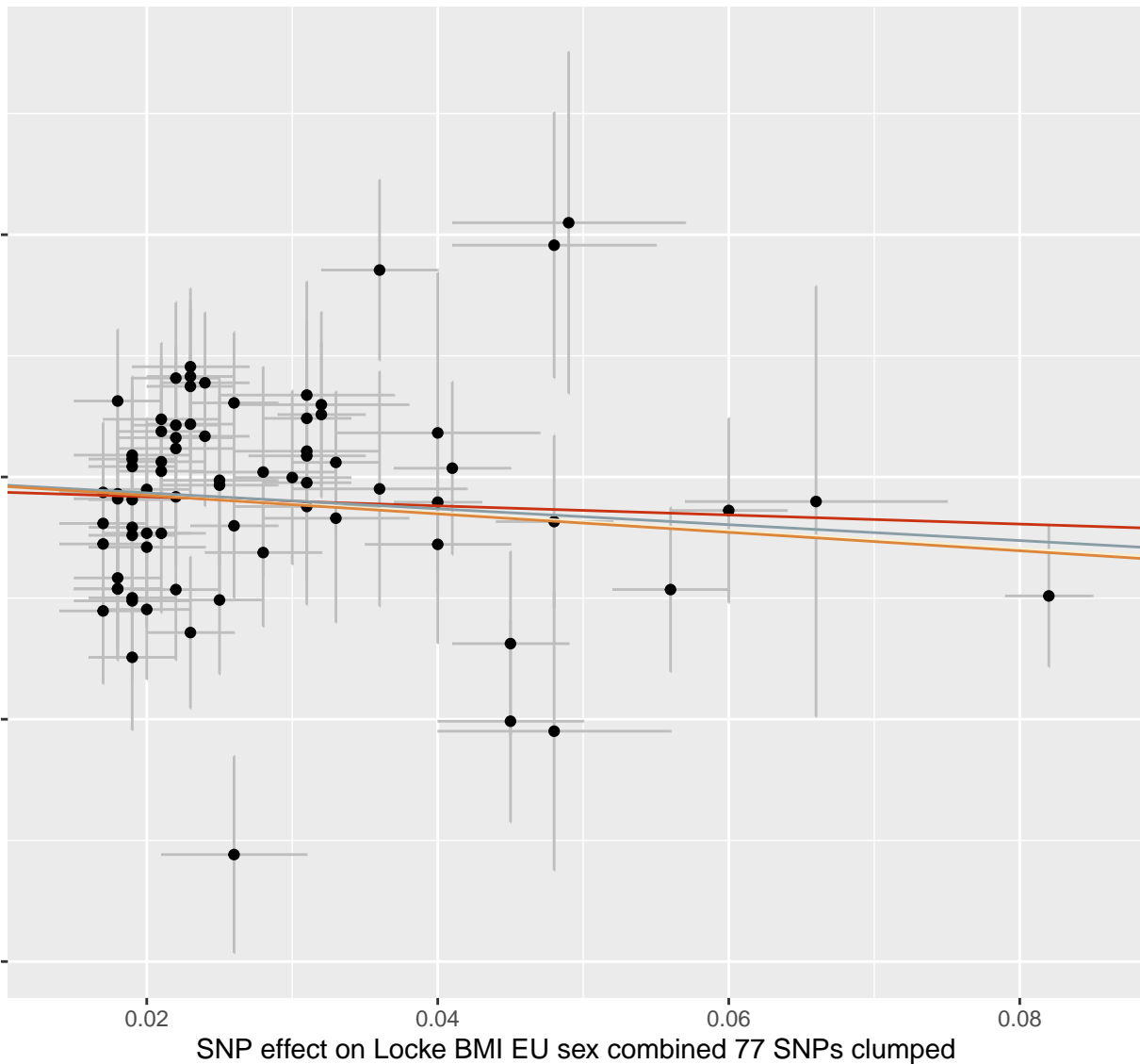
0.02

0.04

0.06

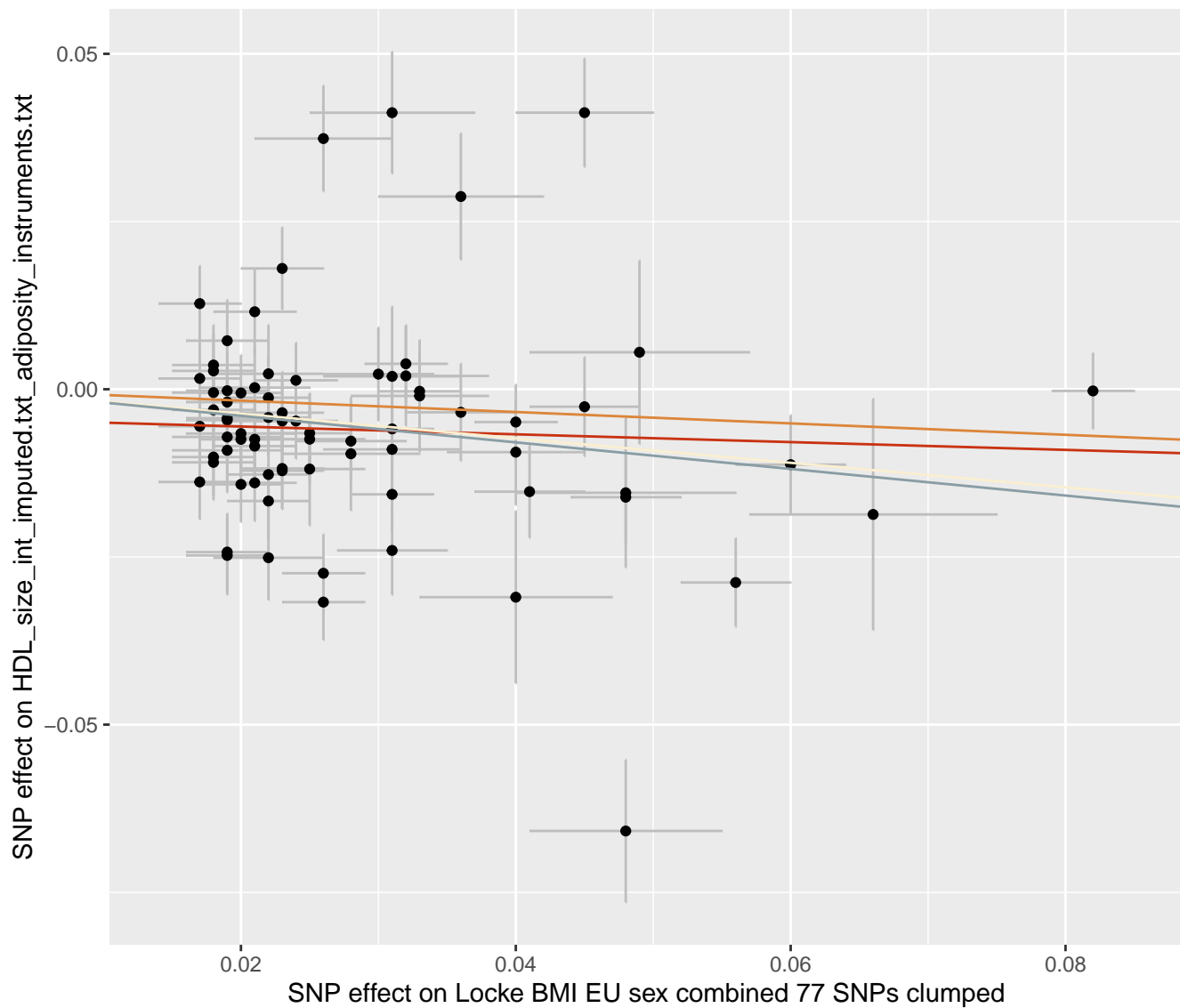
0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test

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



# MR Test



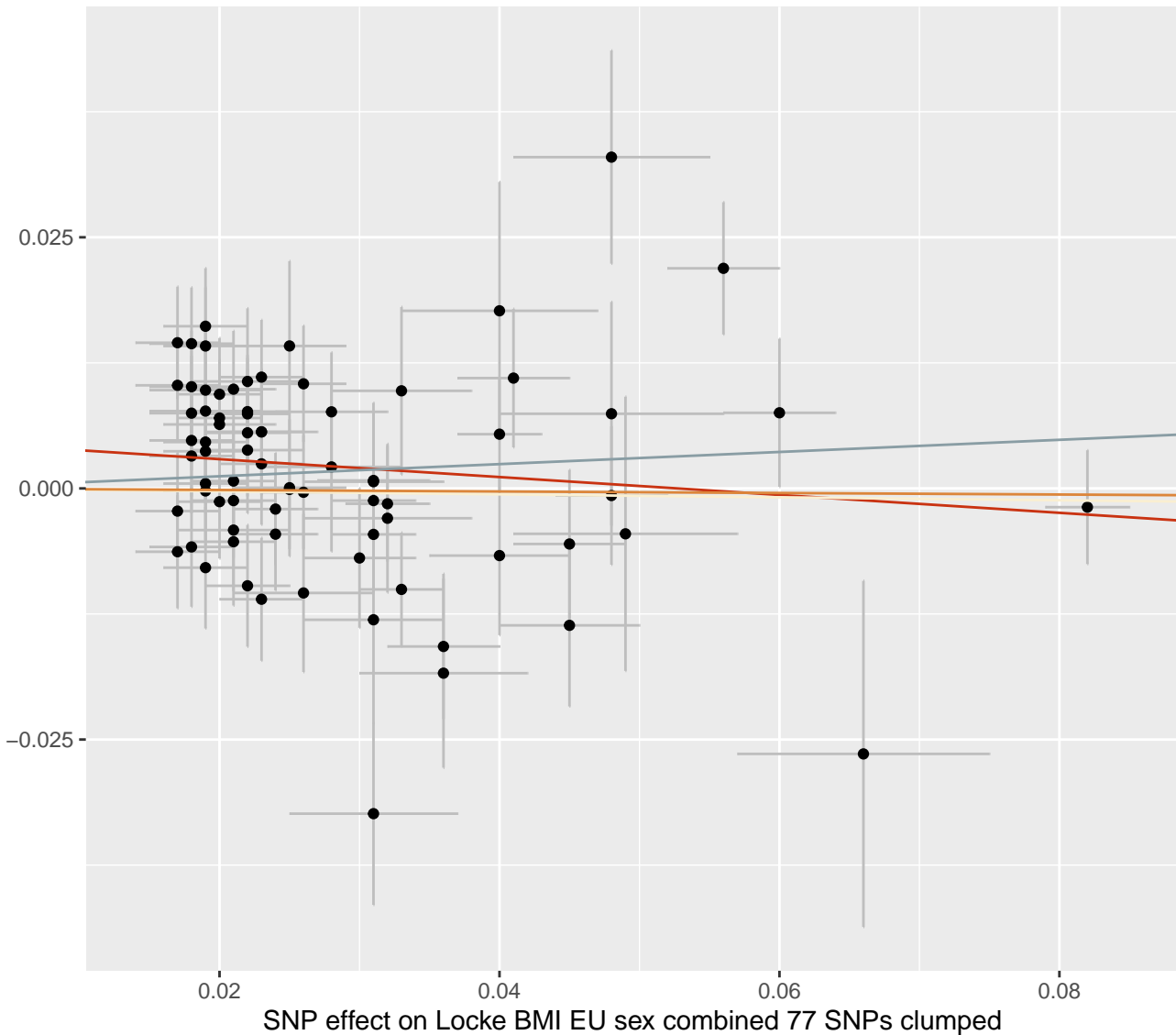
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.00

-0.04

-0.08

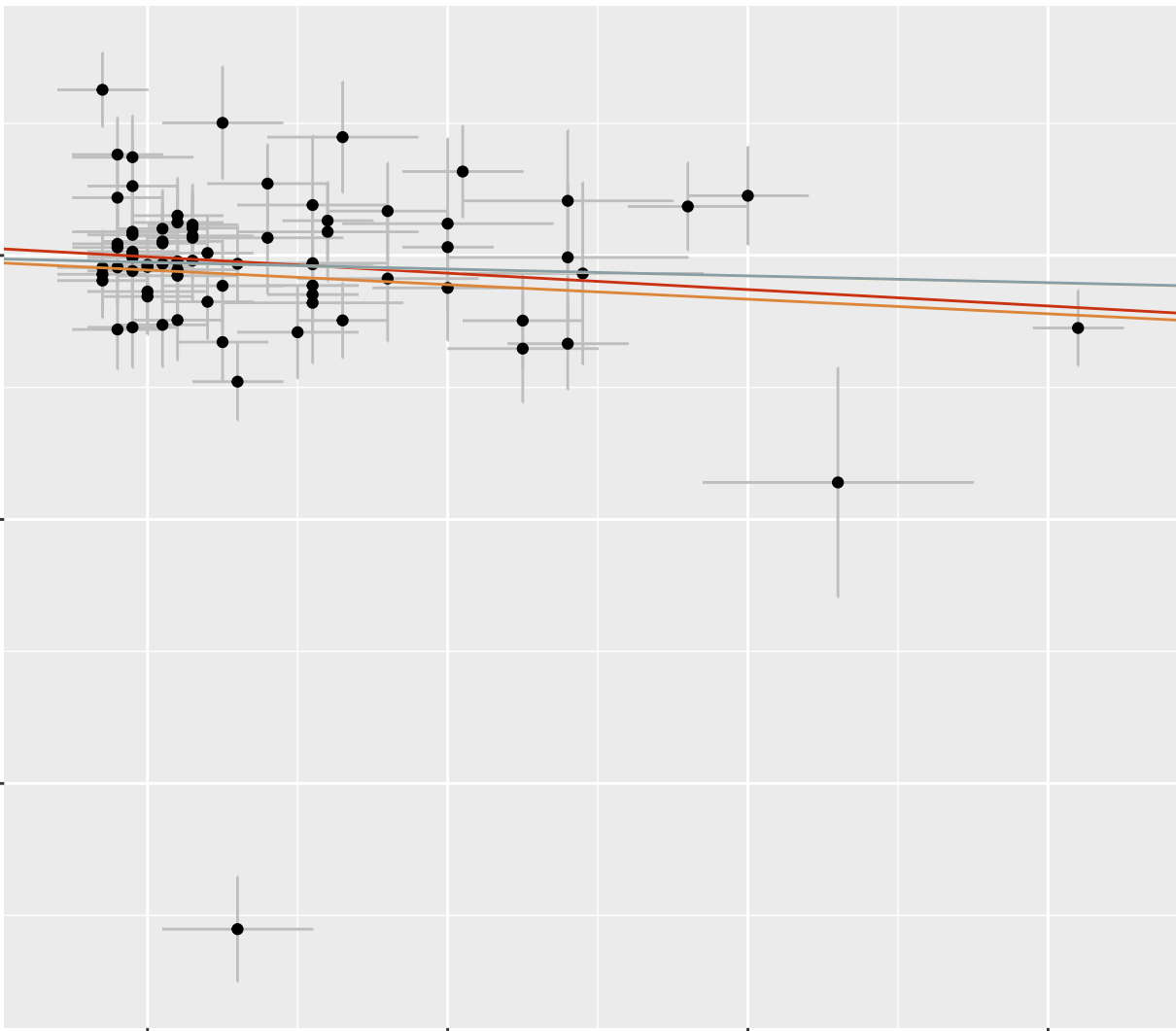
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped





# MR Test



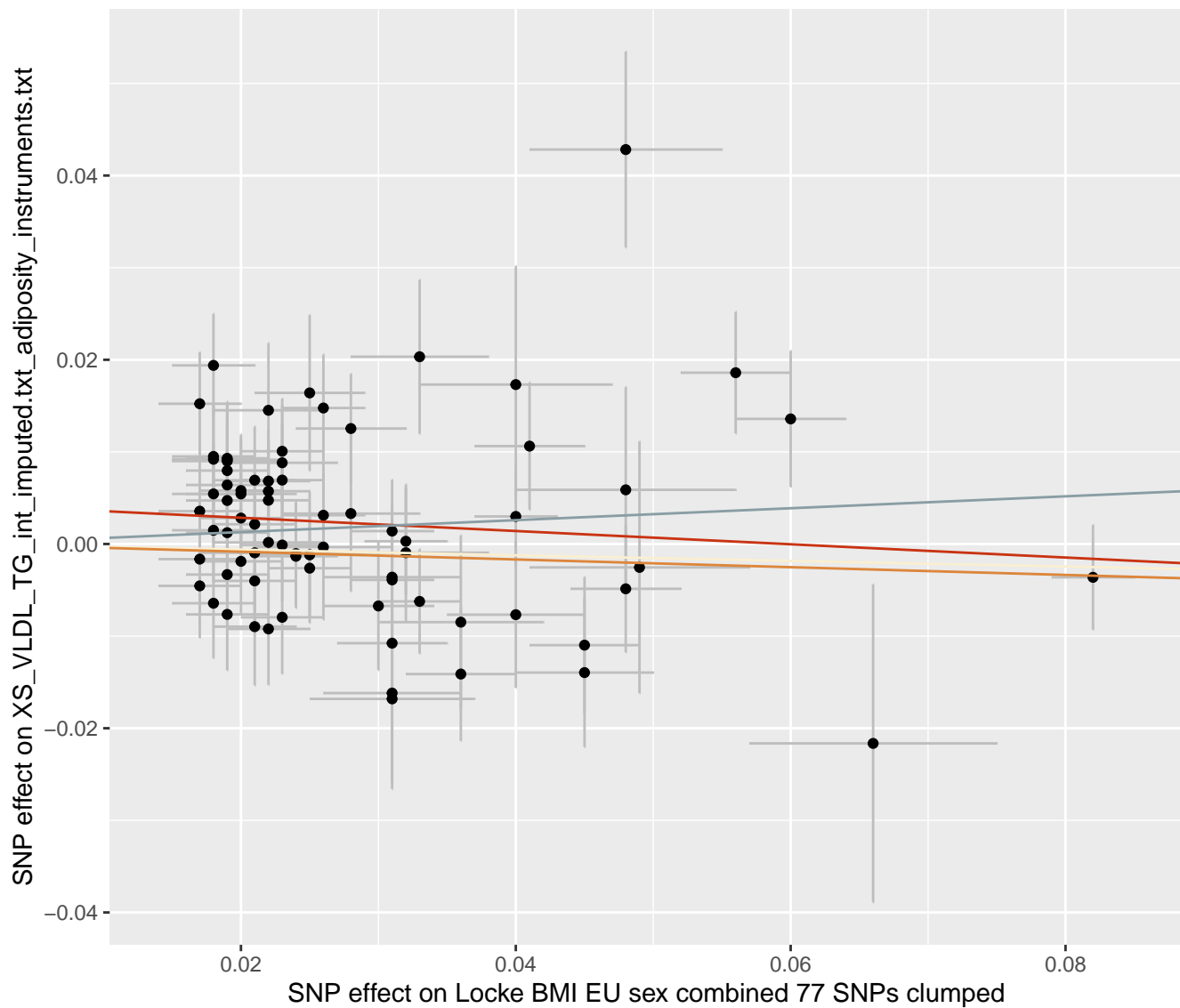
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test

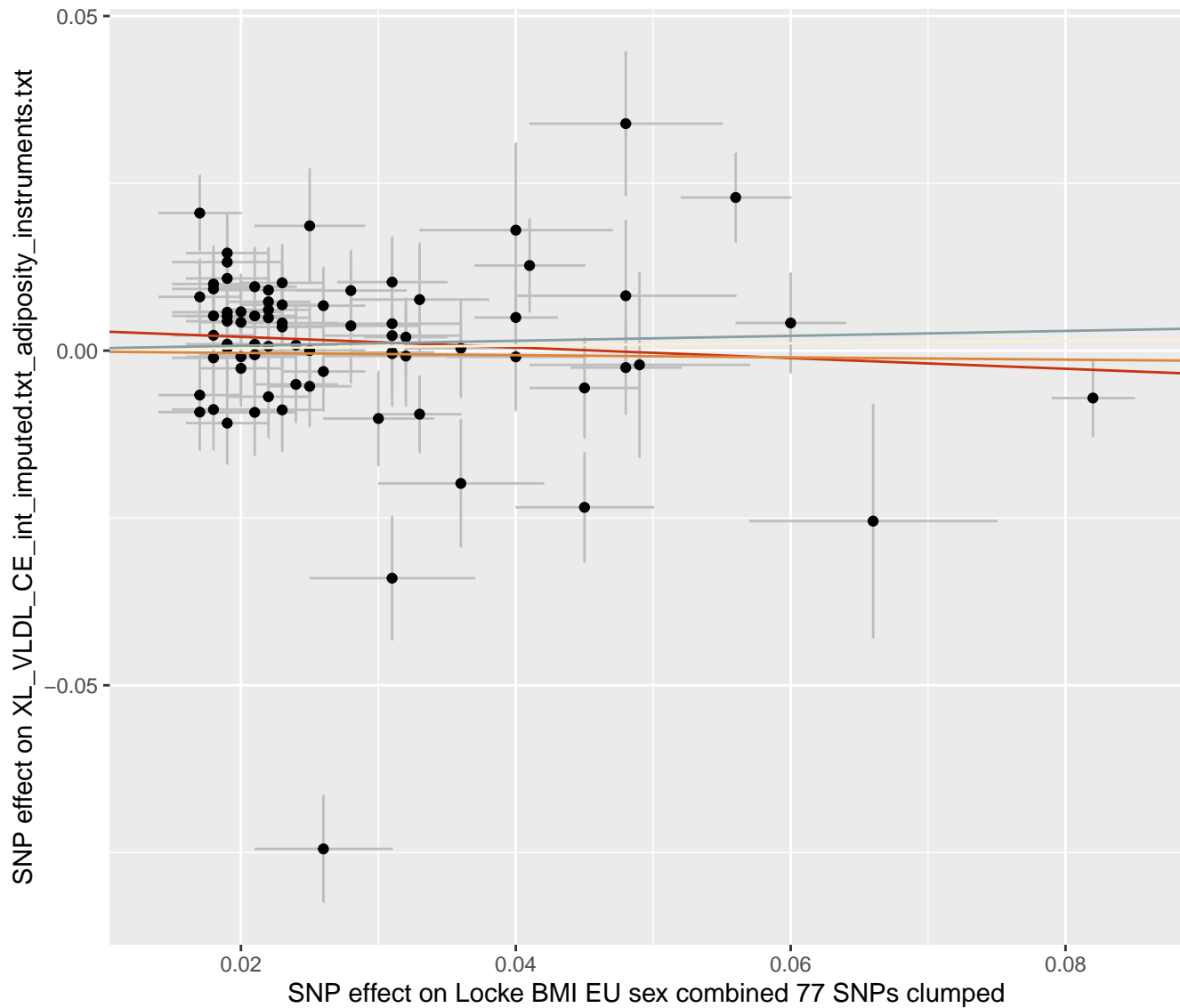


Inverse variance weighted (multiplicative random effects)

MR Egger

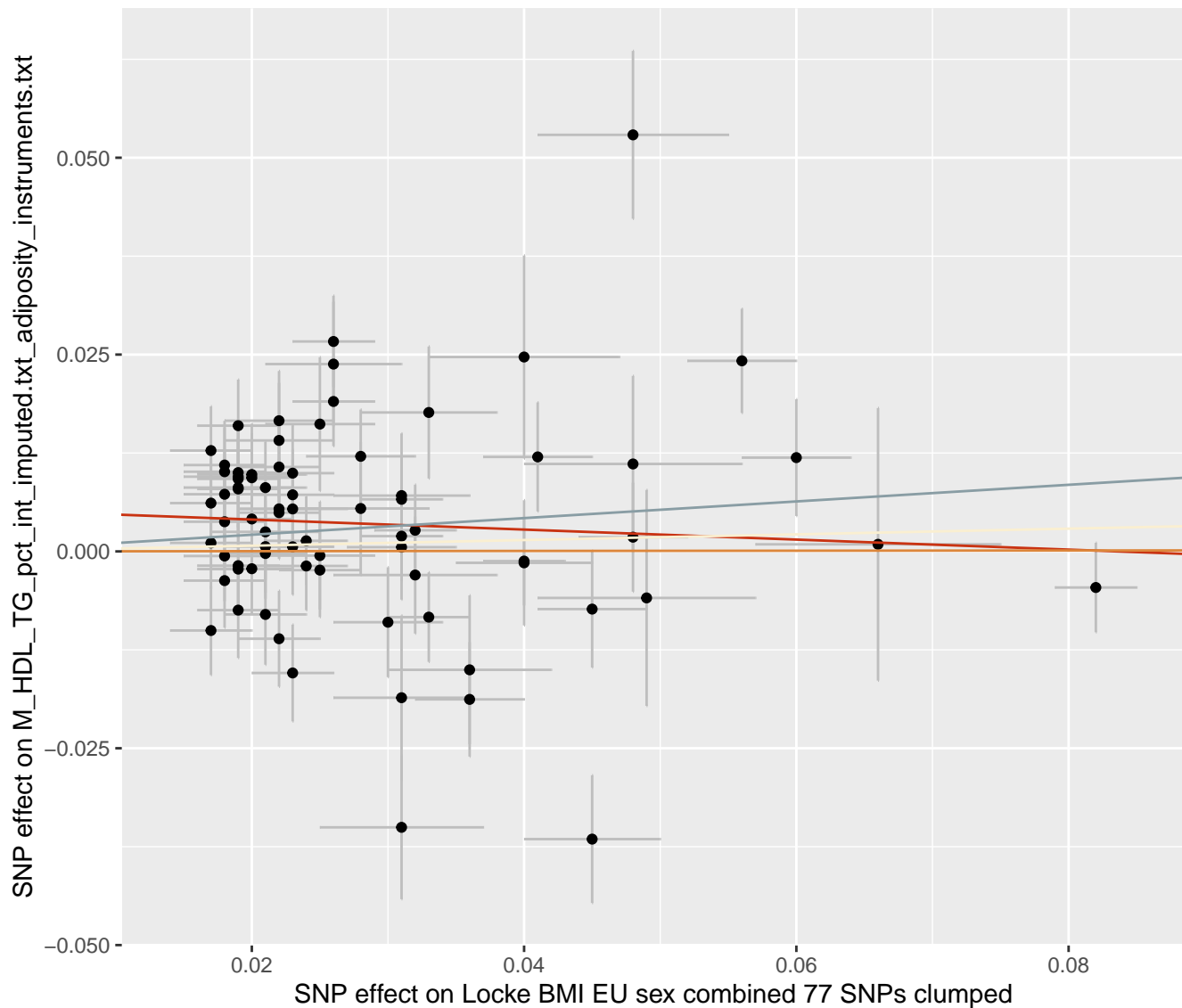
Weighted median

Weighted mode



# MR Test

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



# MR Test

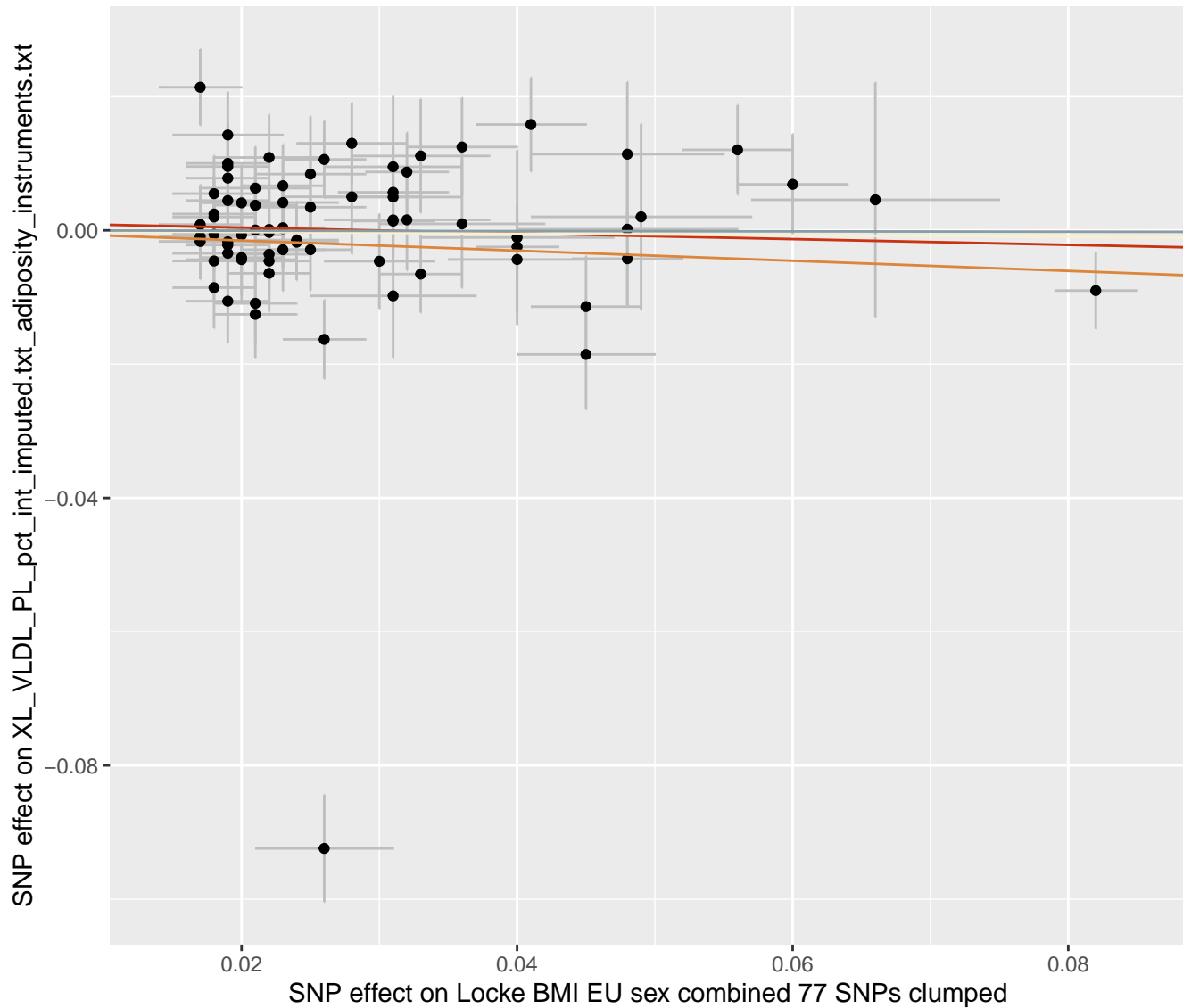


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode

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

0.00

-0.05

-0.10

-0.15

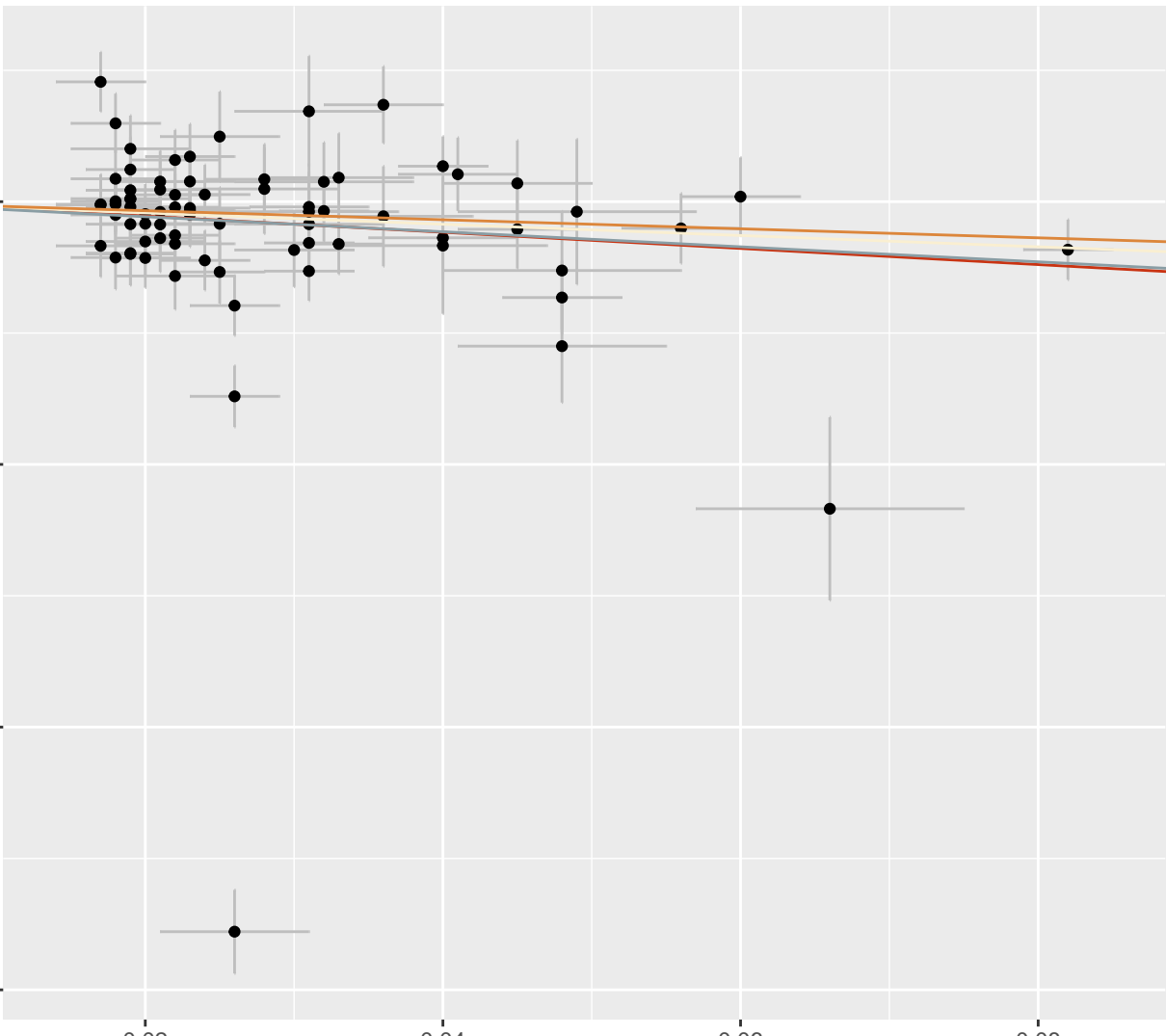
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.025

0.000

-0.025

-0.050

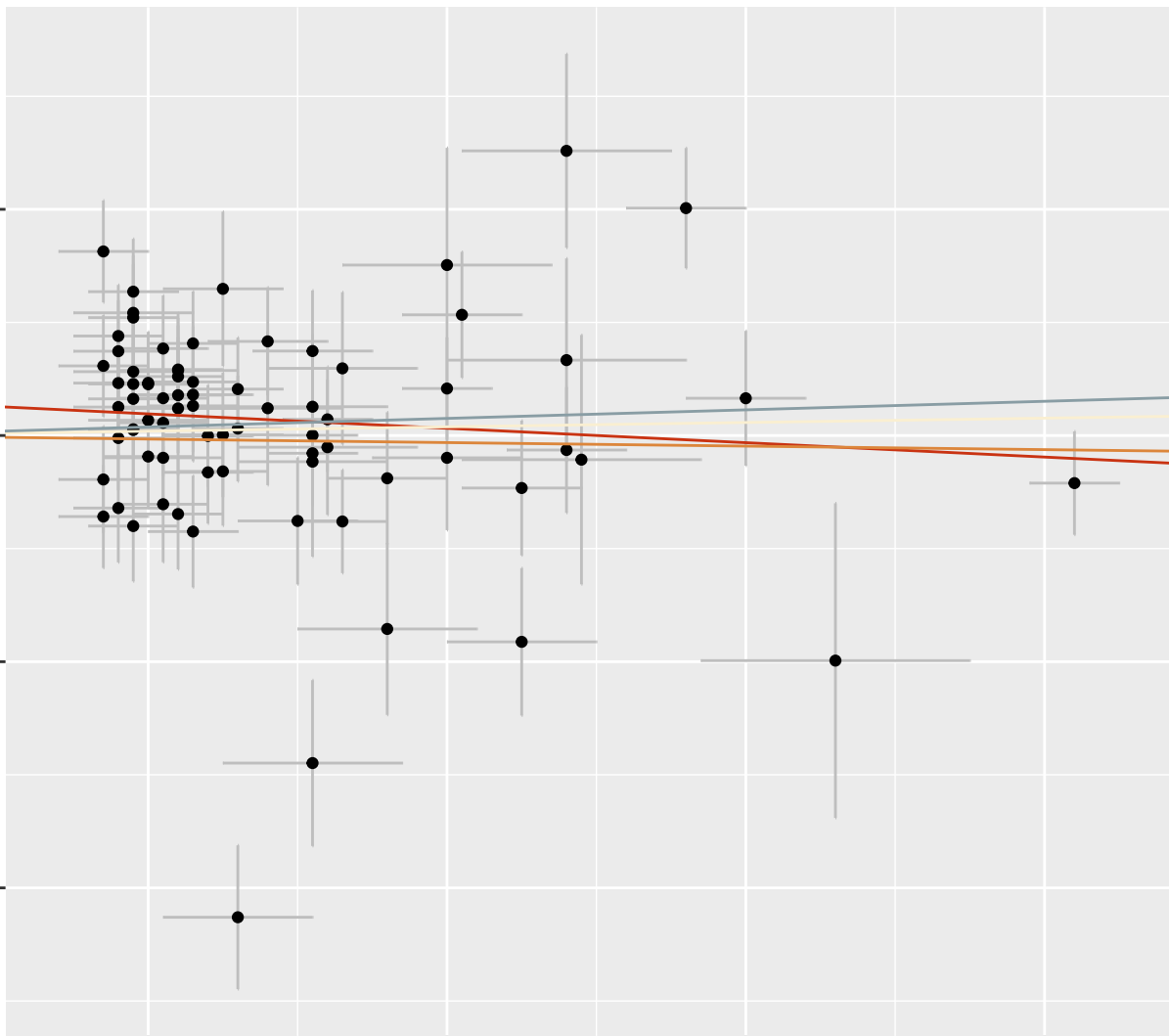
0.02

0.04

0.06

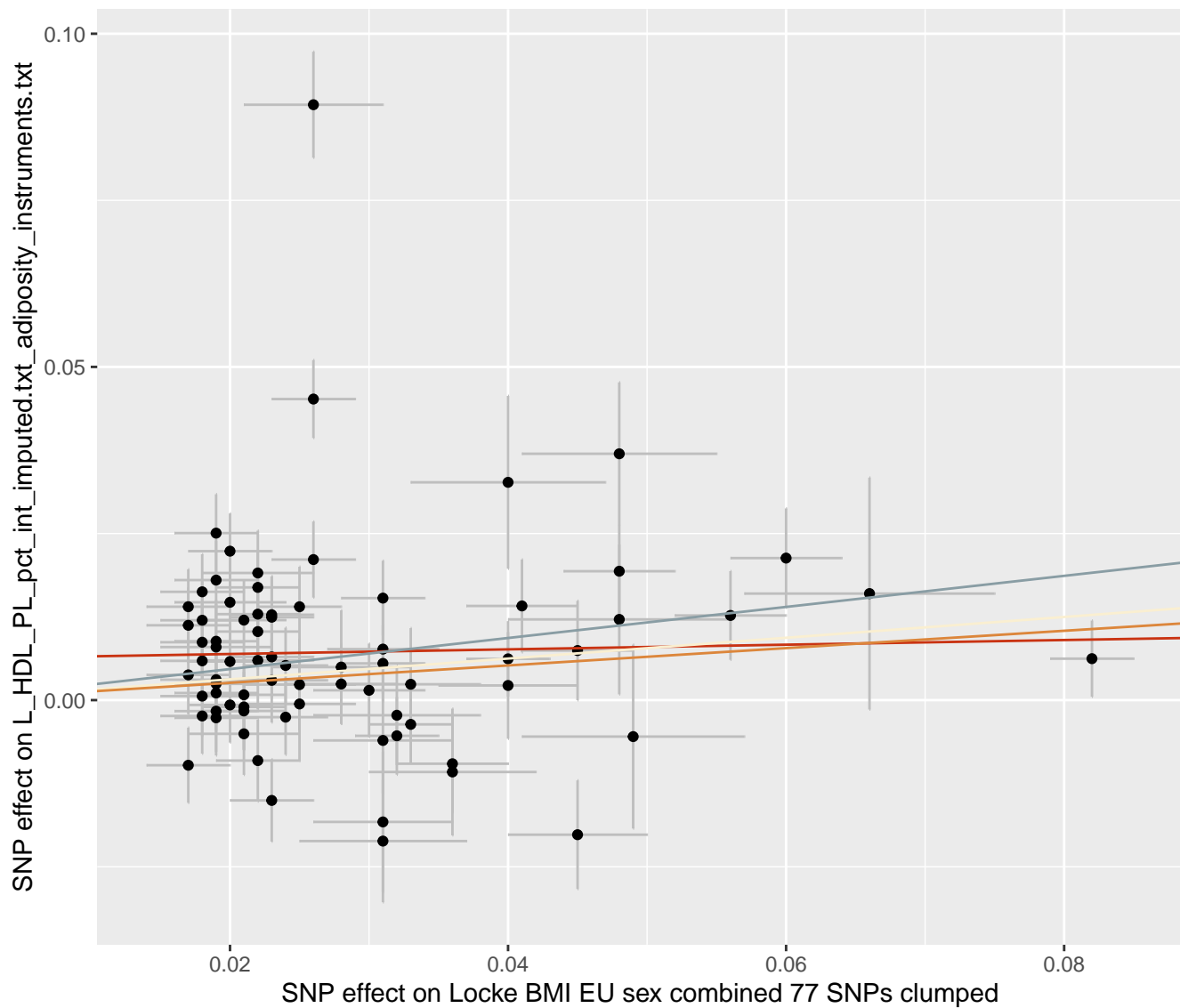
0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



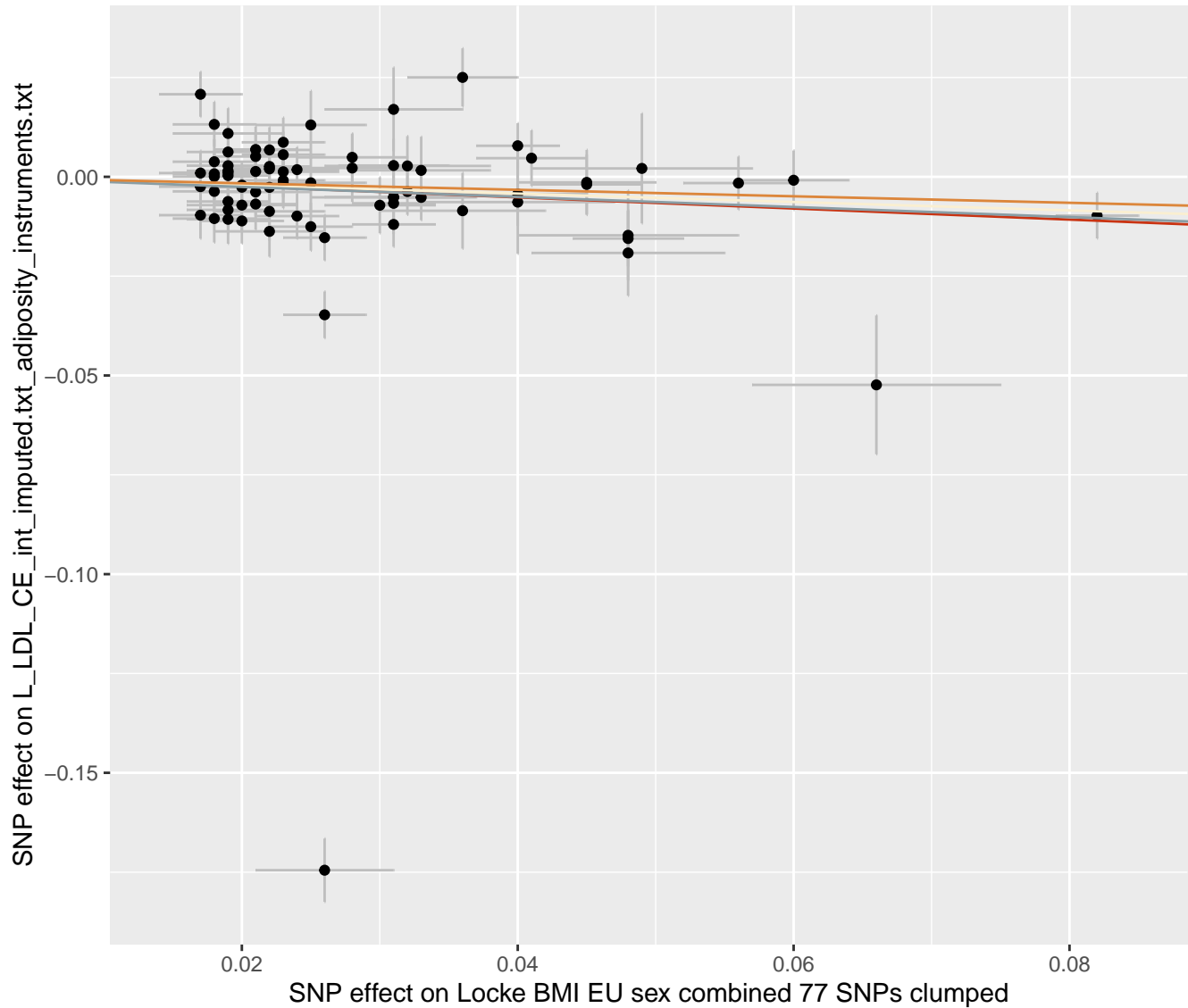
# MR Test

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



# MR Test

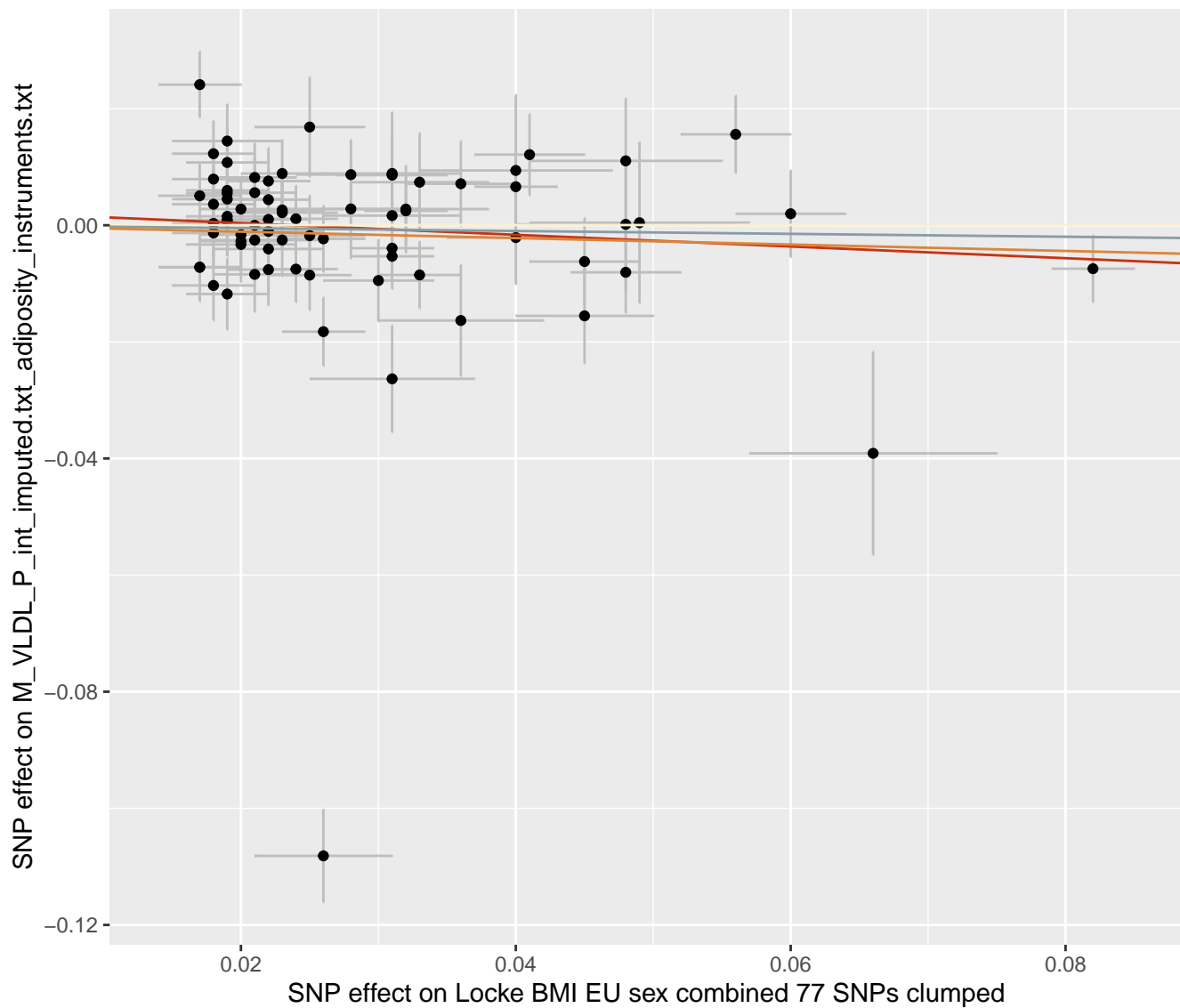
- Inverse variance weighted (multiplicative random effects)
- MR Egger
- Weighted median
- Weighted mode





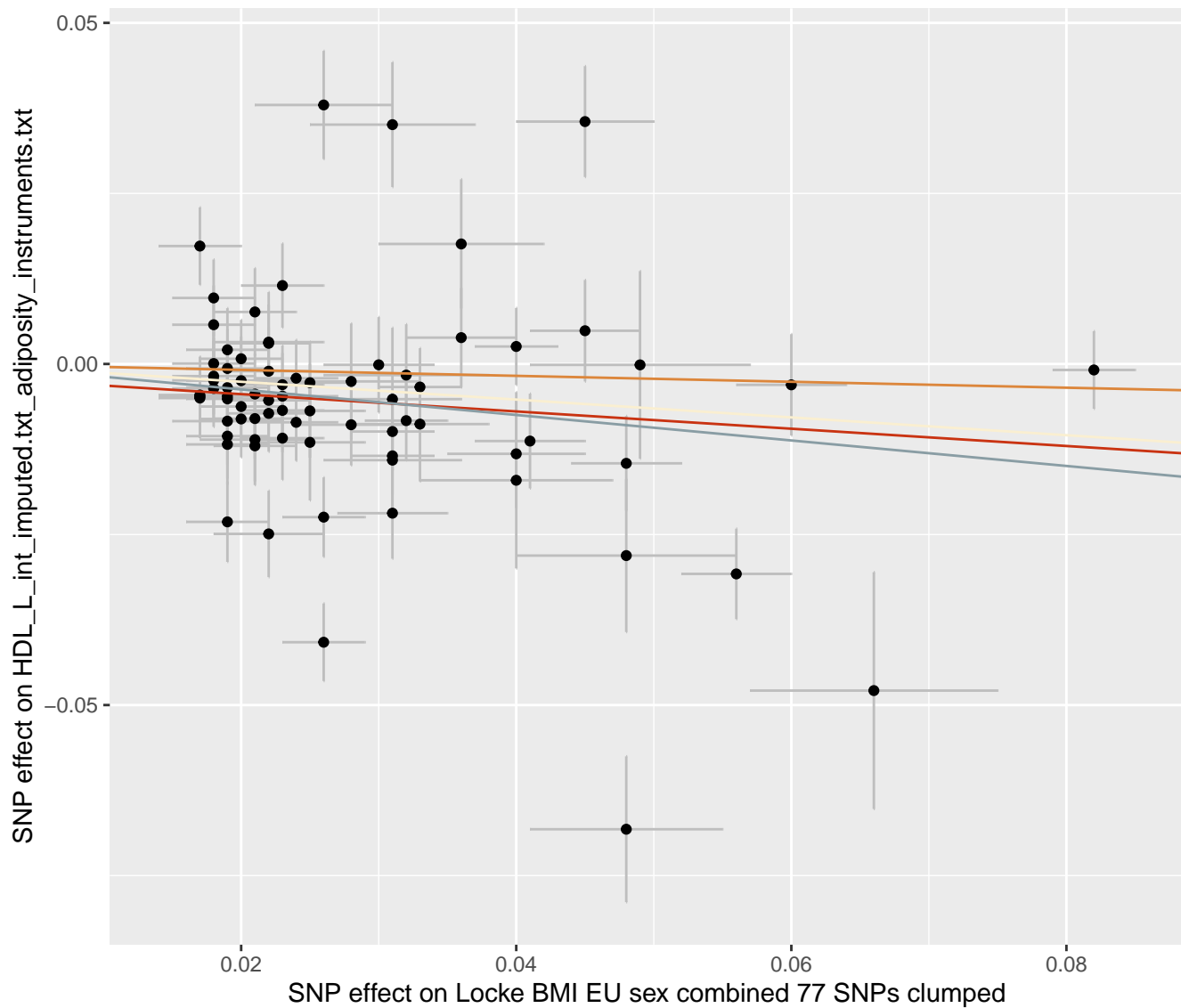
# MR Test

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



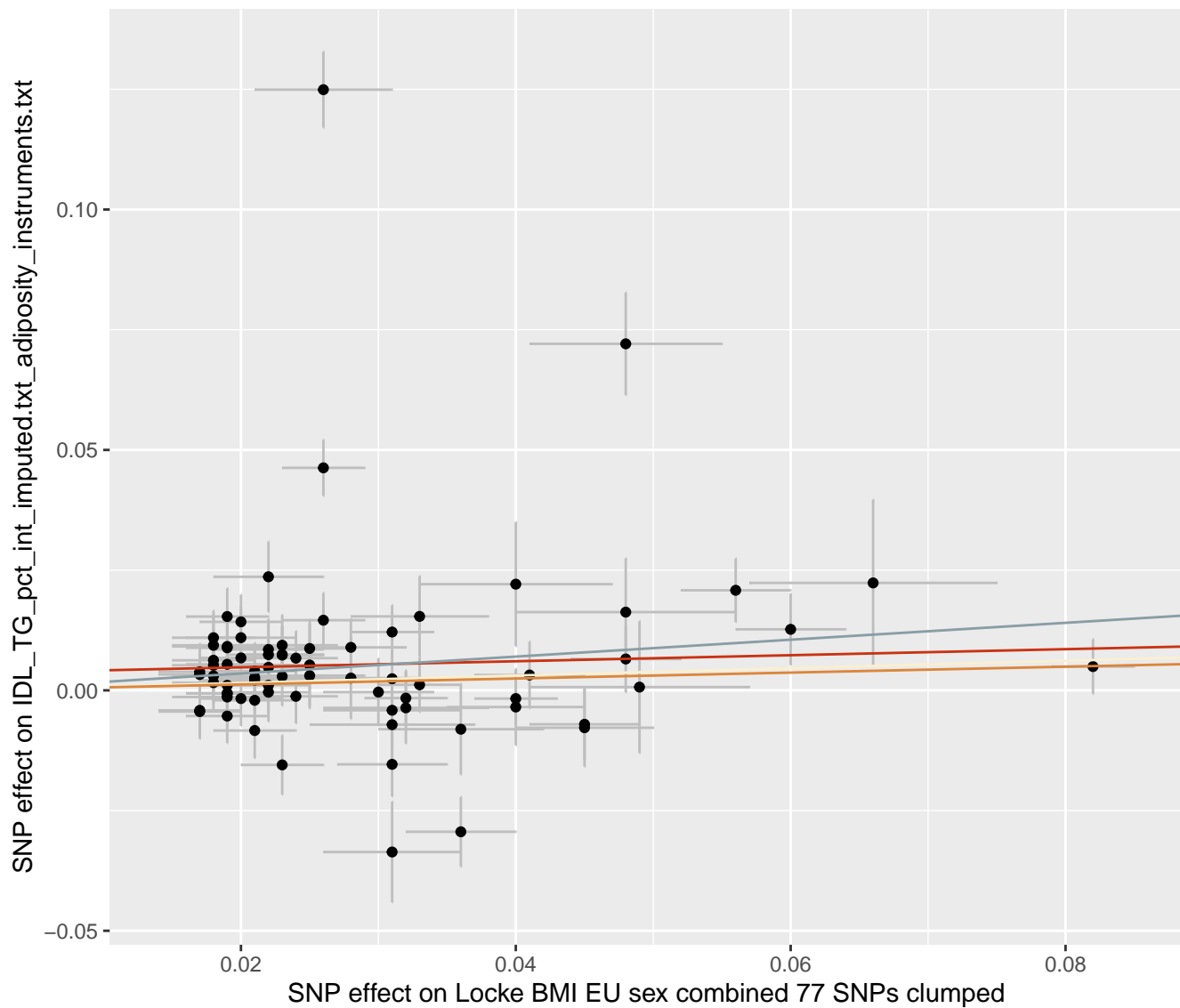
# MR Test

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



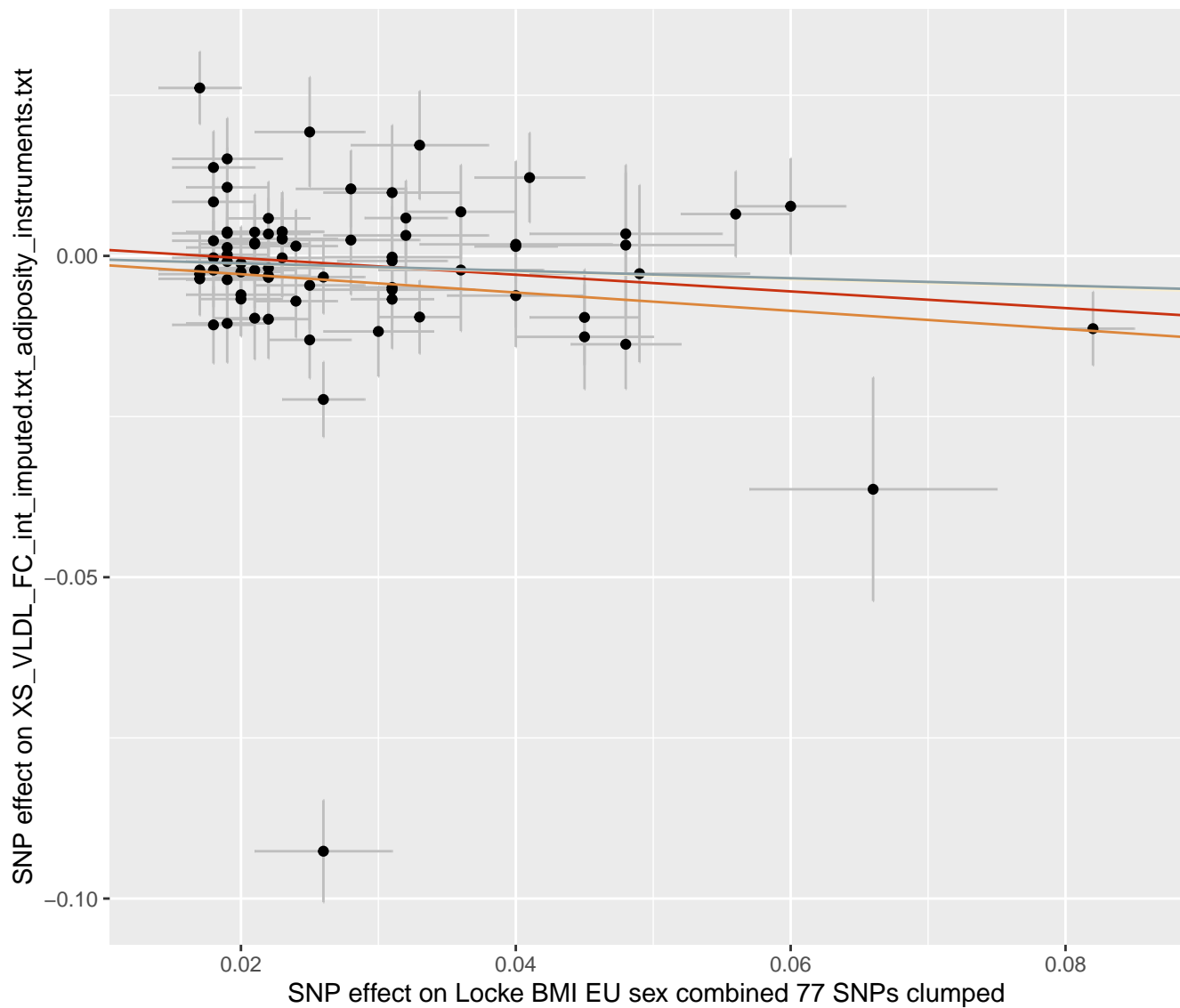
# MR Test

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



# MR Test

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



# MR Test

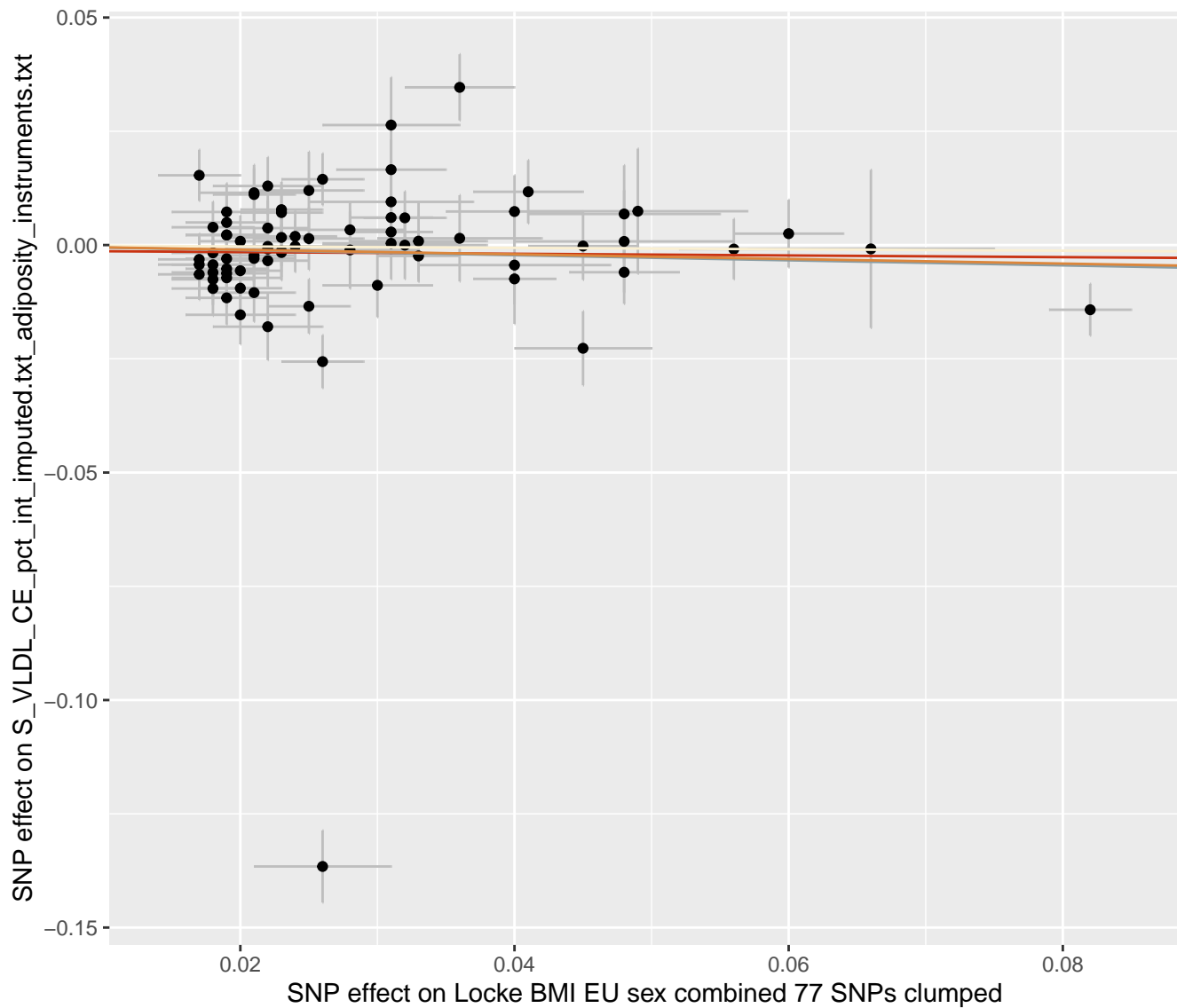


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test



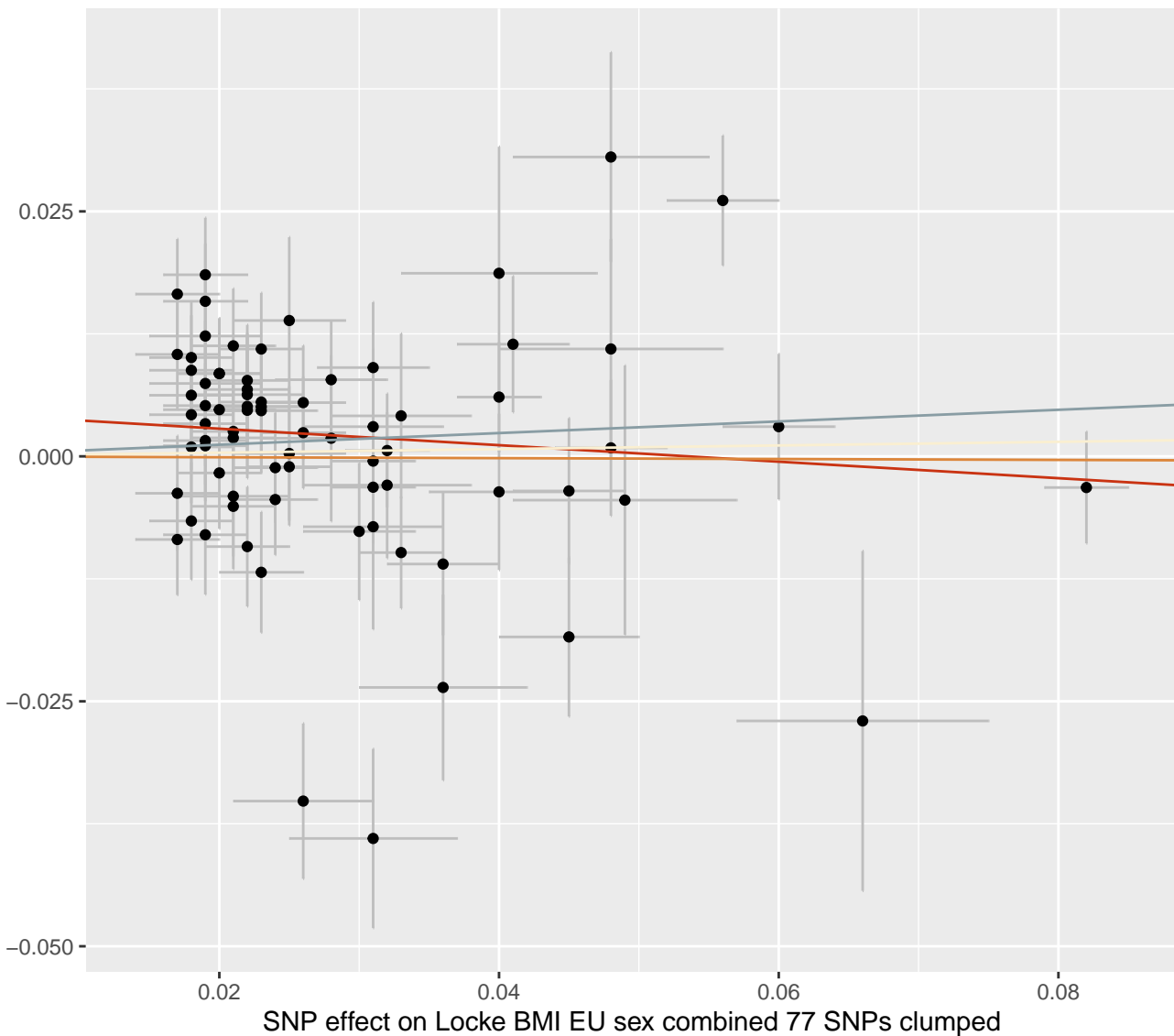
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

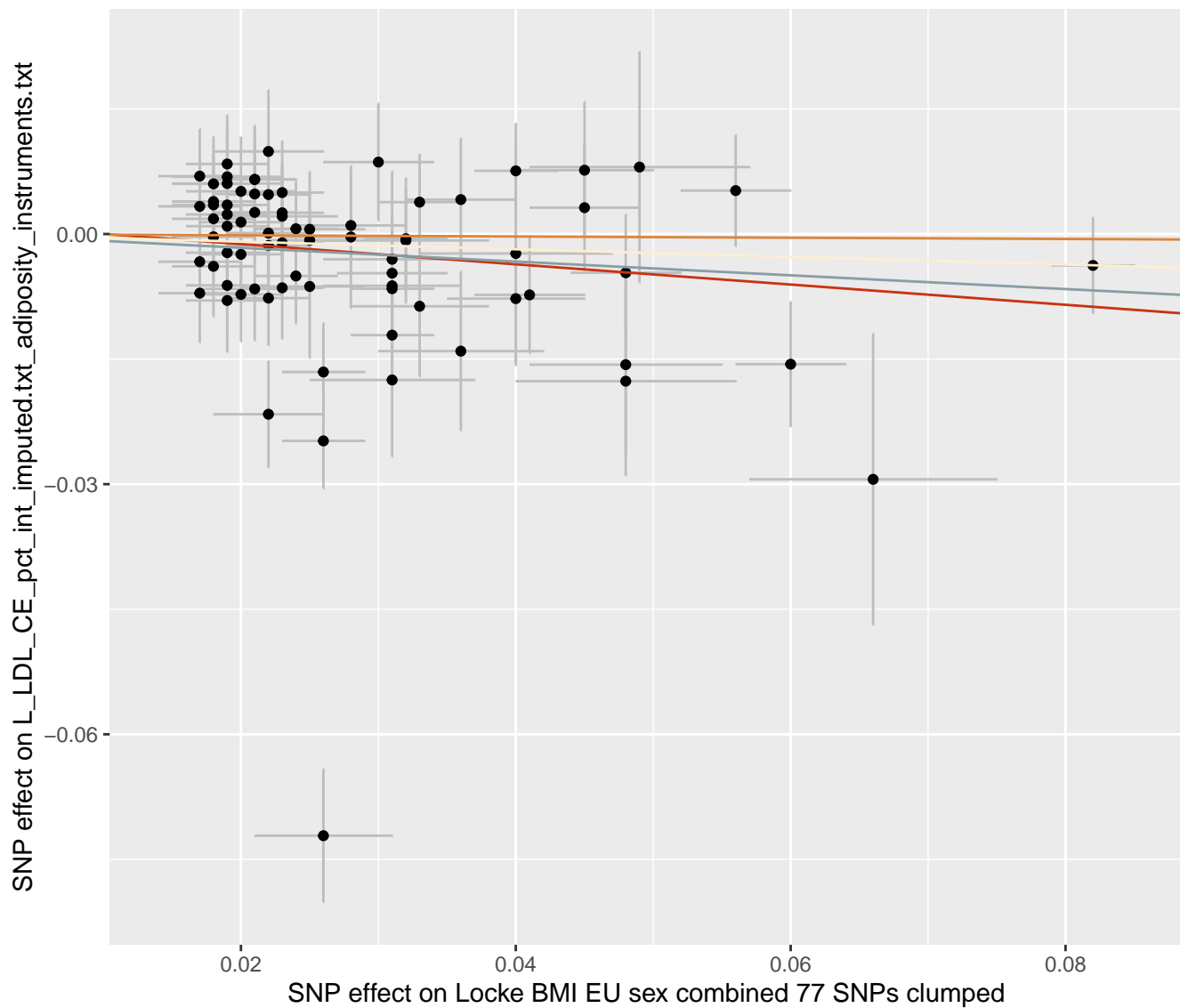
SNP effect on L\_VLDL\_L\_int\_imputed.txt\_adiposity\_instruments.txt



# MR Test

Inverse variance weighted (multiplicative random effects)  
MR Egger

Weighted median  
Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)



MR Egger

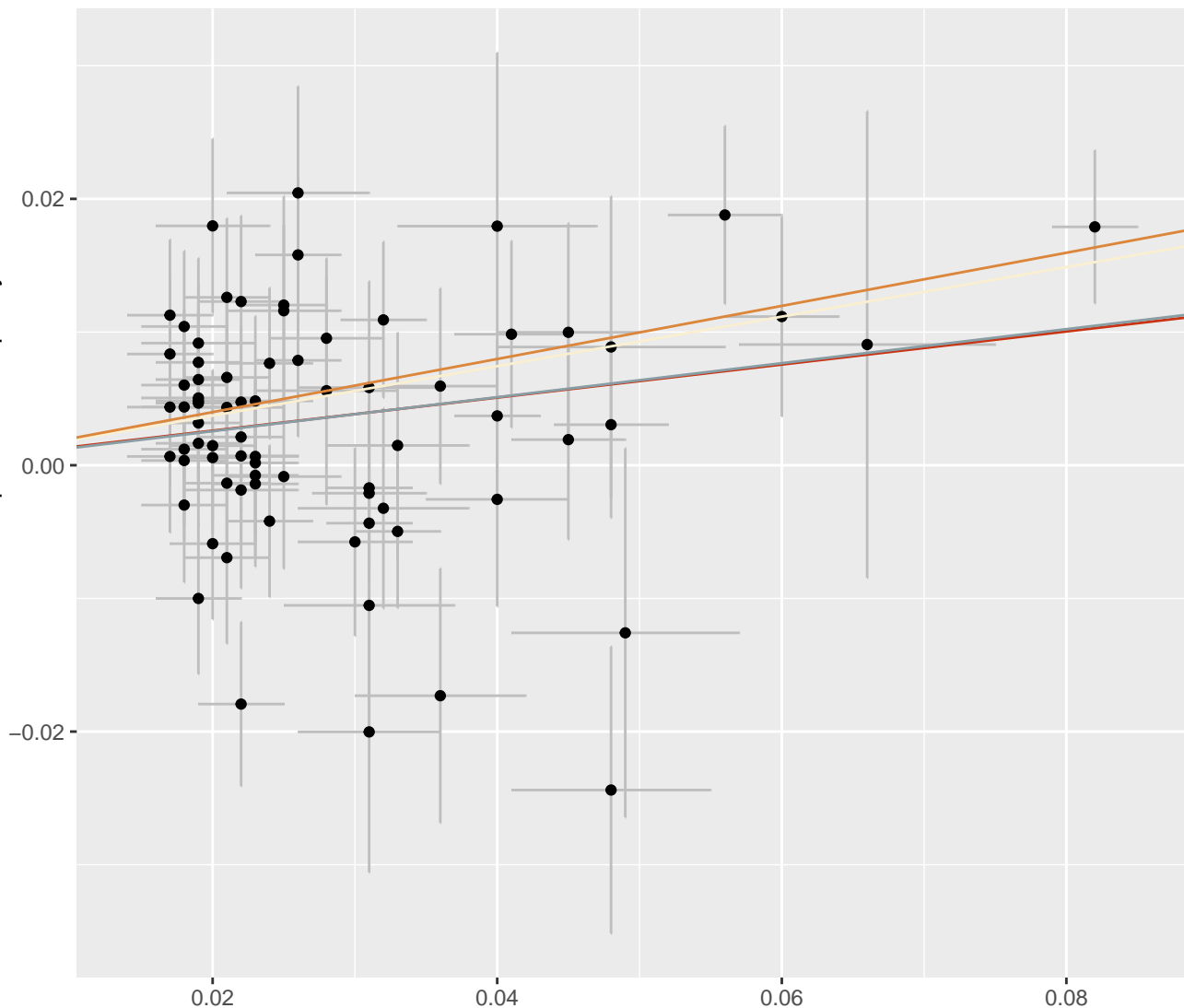


Weighted median



Weighted mode

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



SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# 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

0.00  
-0.05  
-0.10

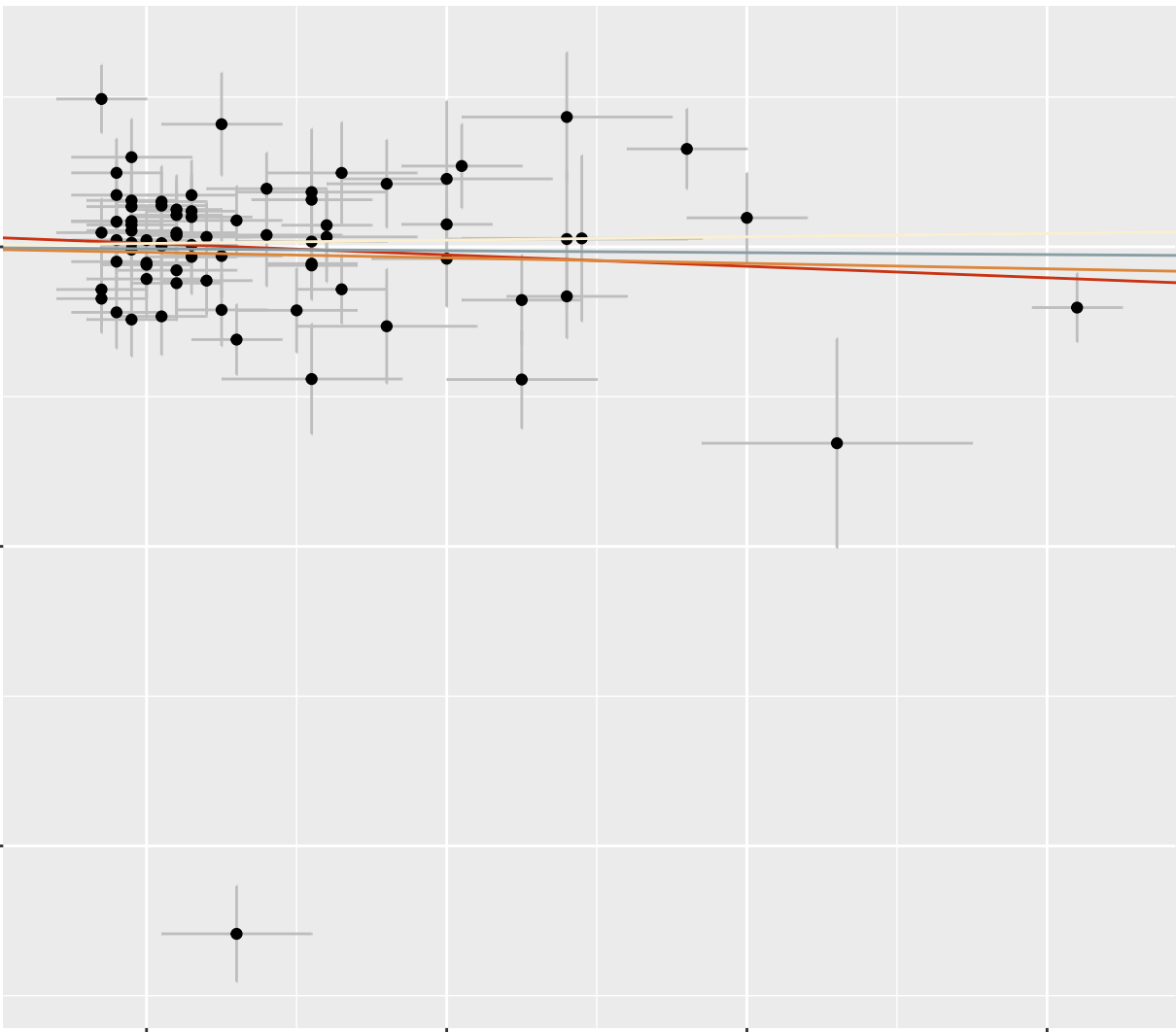
0.02

0.04

0.06

0.08

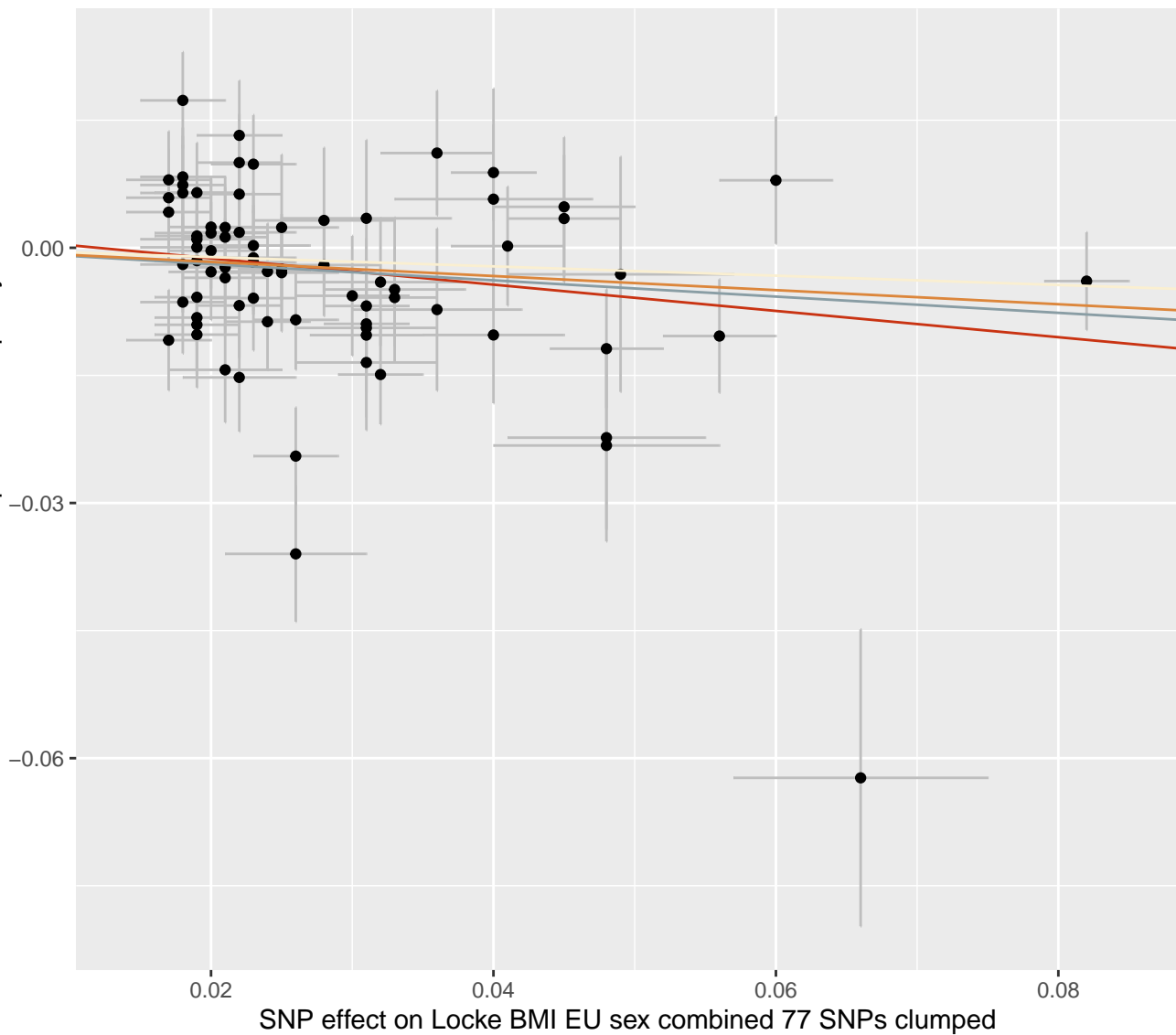
SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test

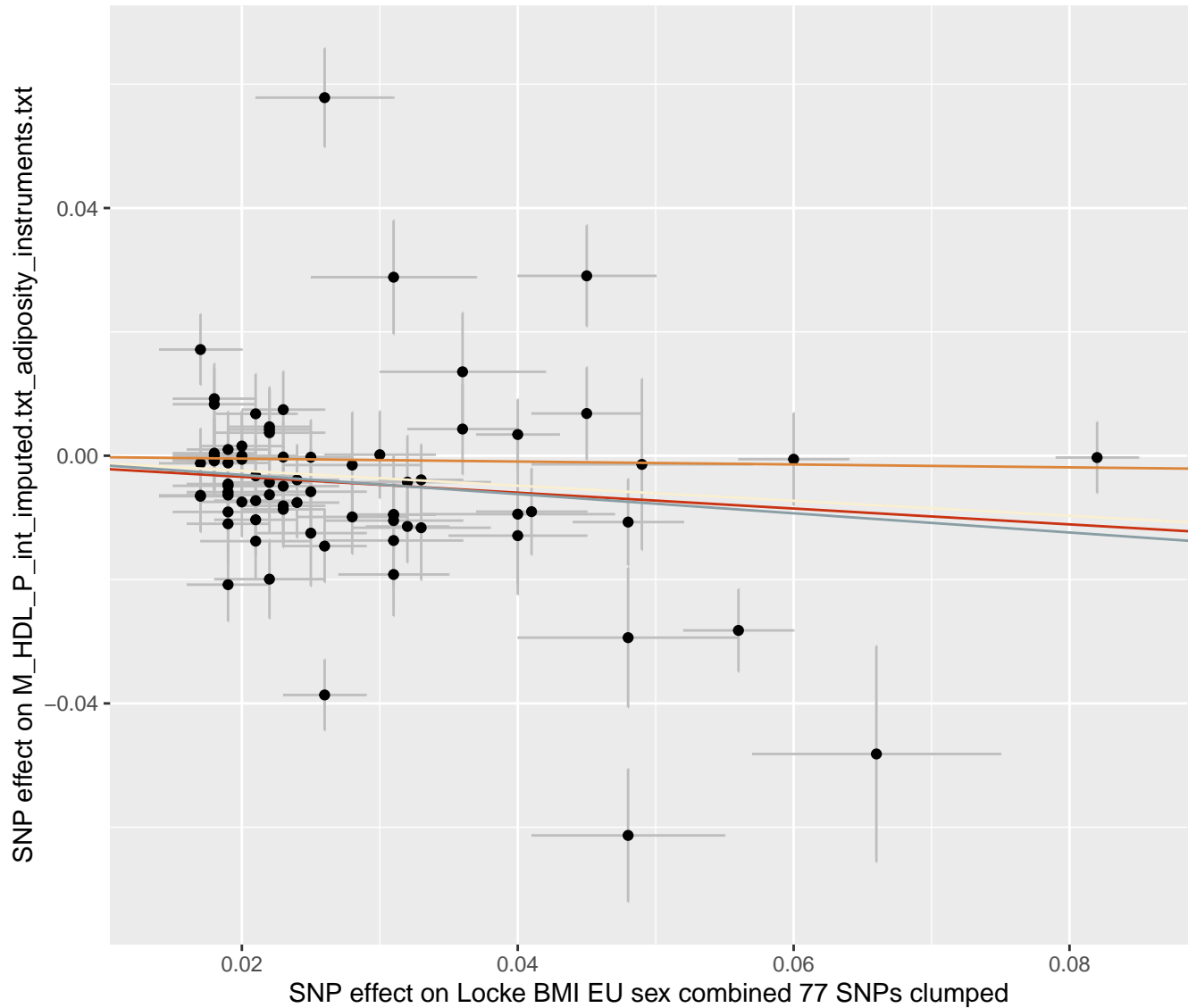
- Inverse variance weighted (multiplicative random effects)
- MR Egger
- Weighted median
- Weighted mode

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



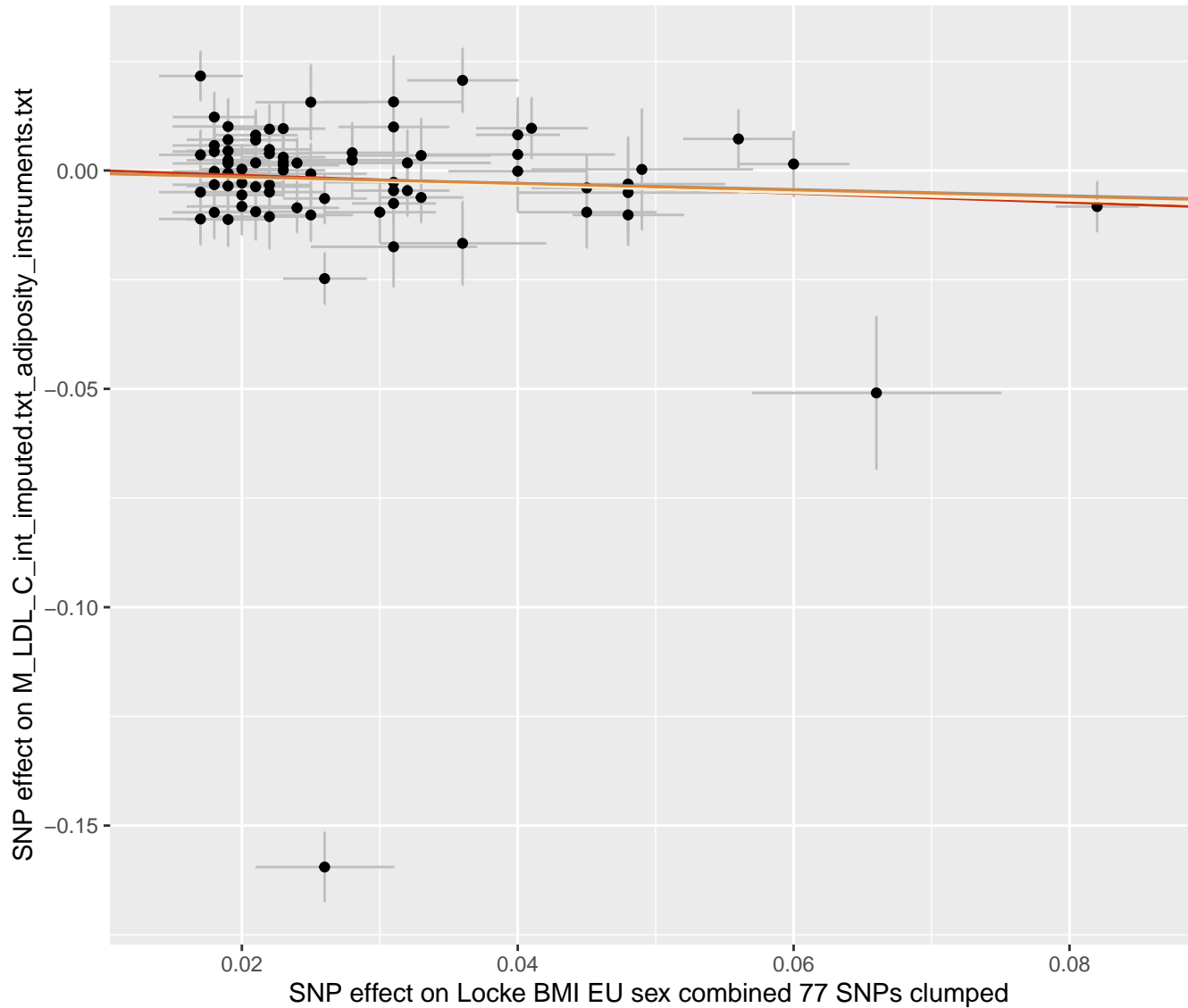
# MR Test

- 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



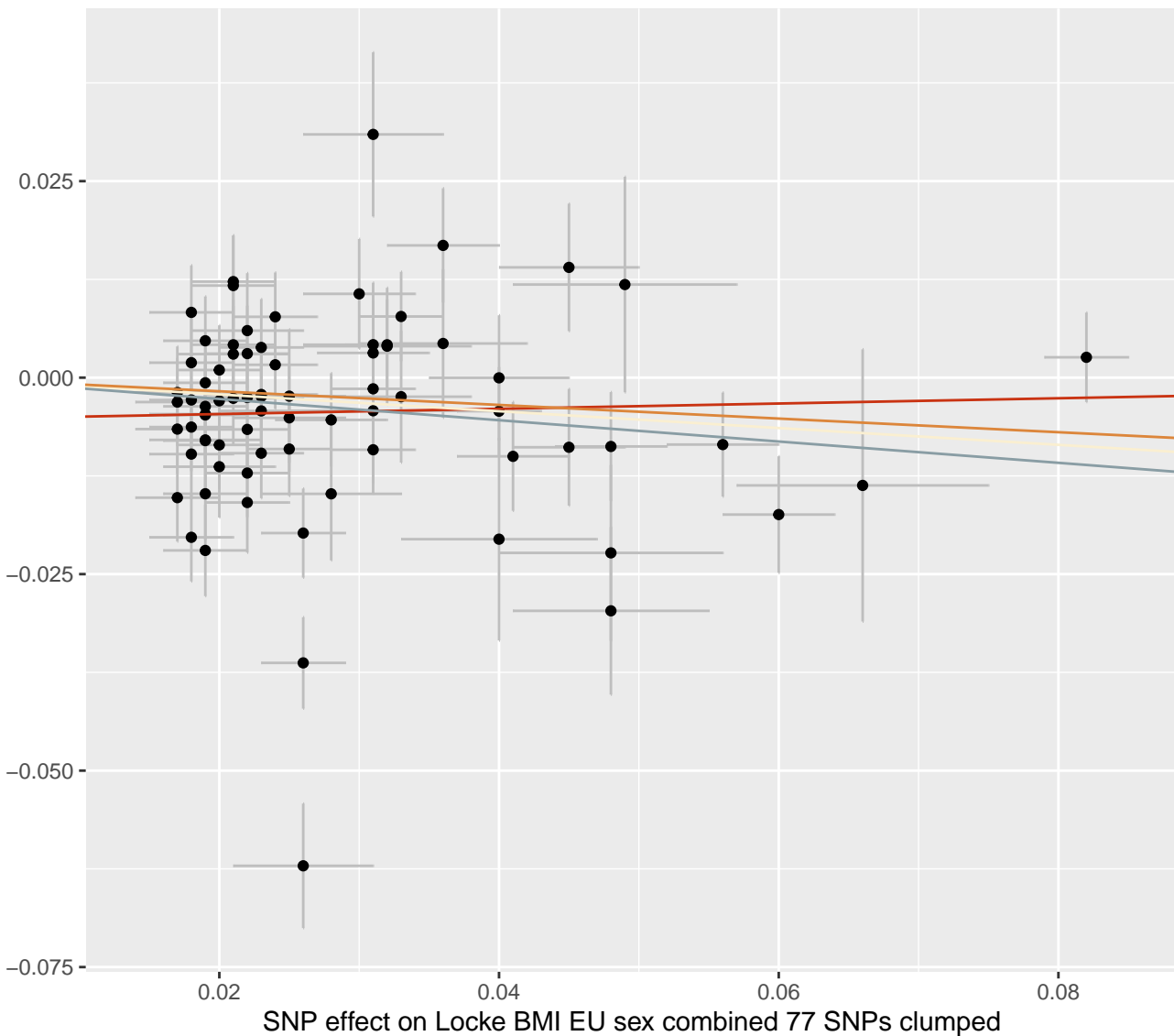
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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



# MR Test



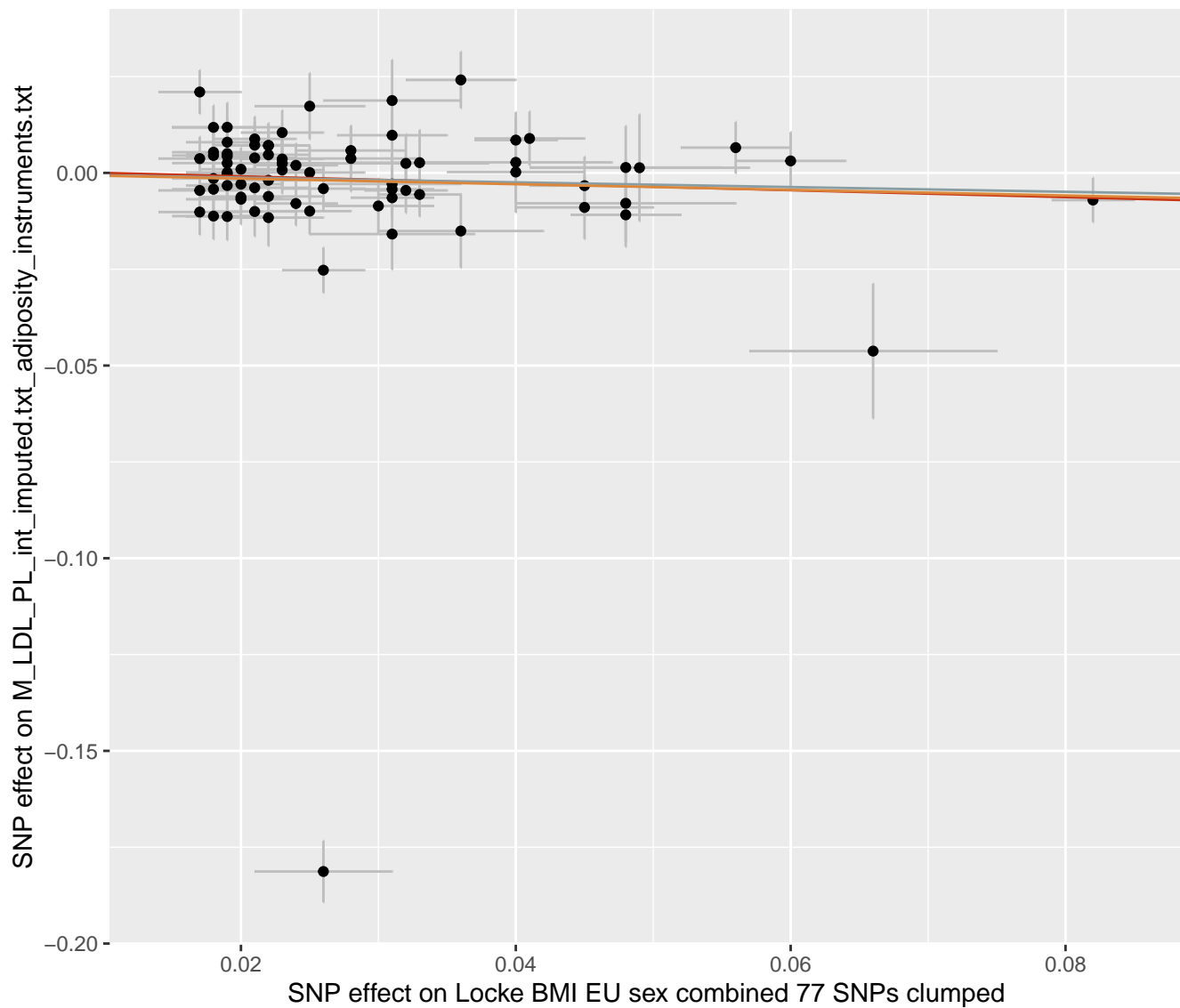
Inverse variance weighted (multiplicative random effects)

MR Egger



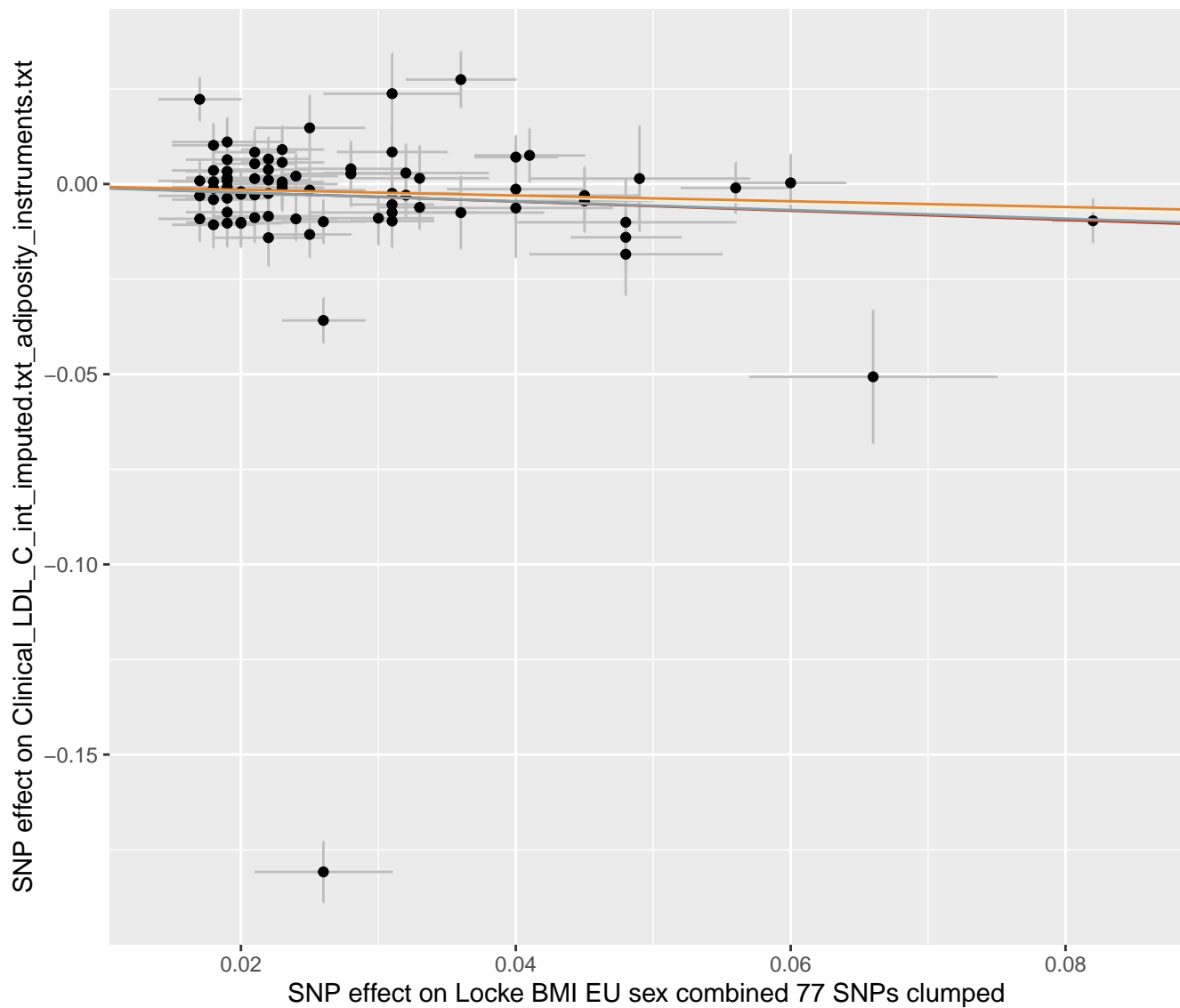
Weighted median

Weighted mode



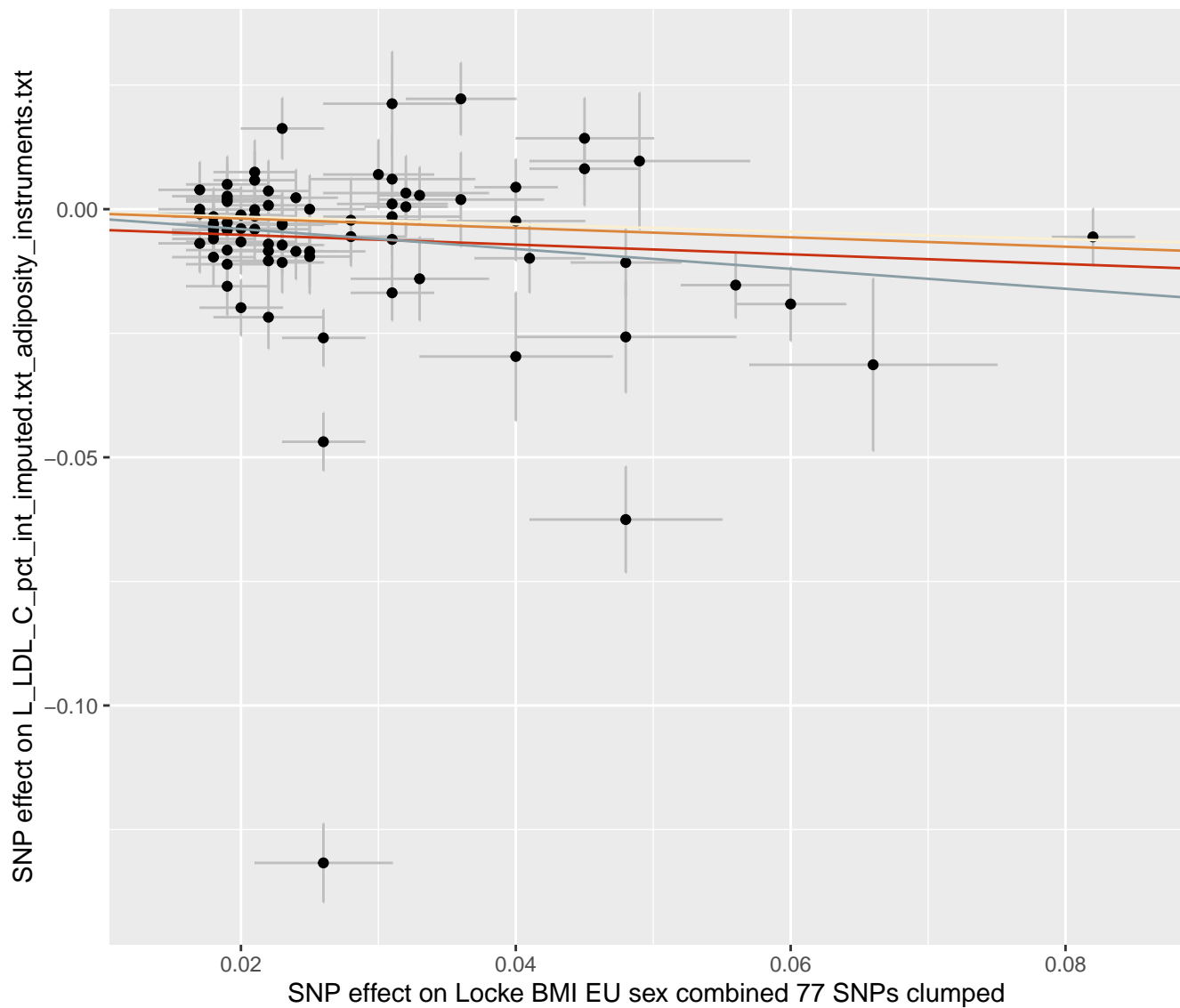
# MR Test

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



# MR Test

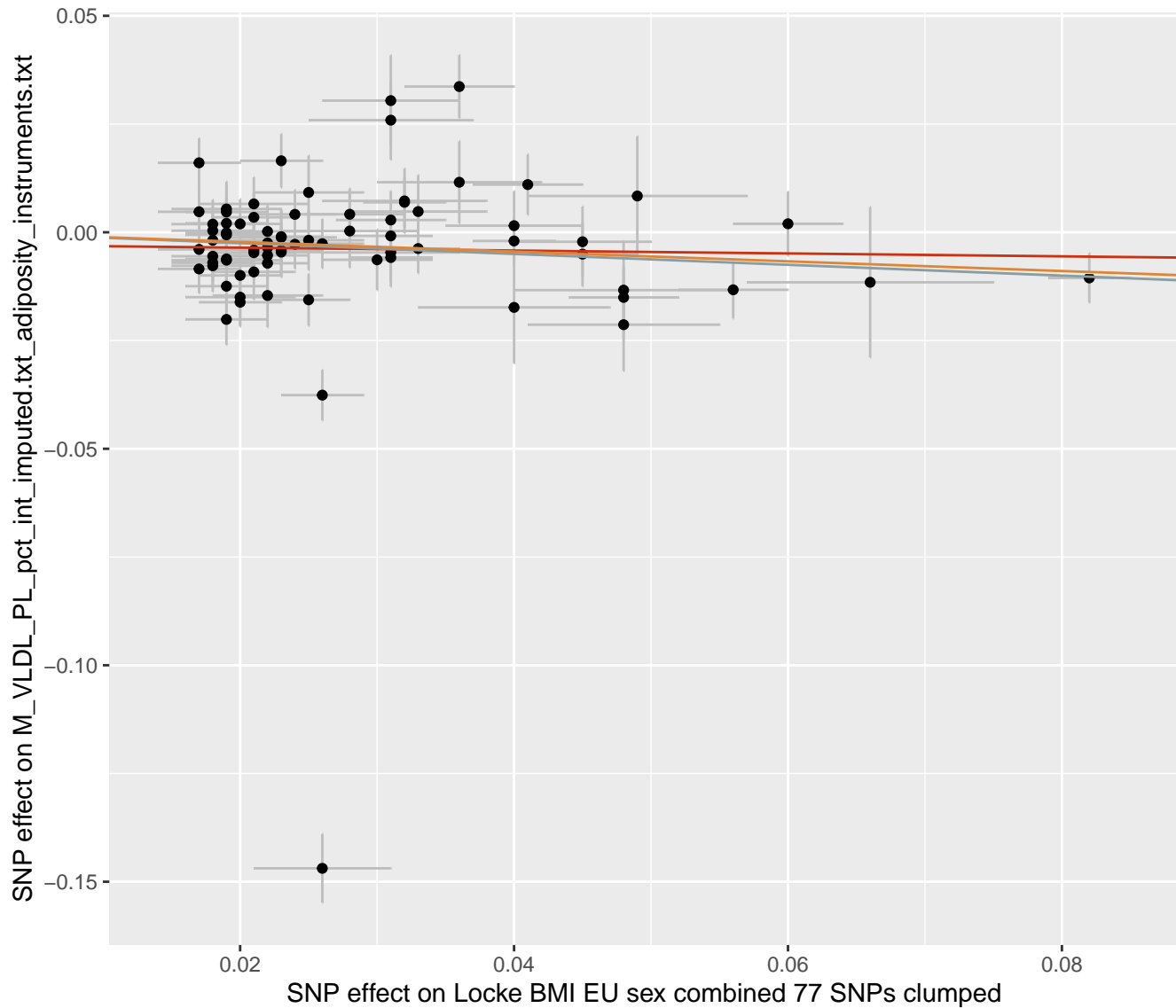
- Inverse variance weighted (multiplicative random effects)
- MR Egger
- Weighted median
- Weighted mode





# MR Test

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



# MR Test

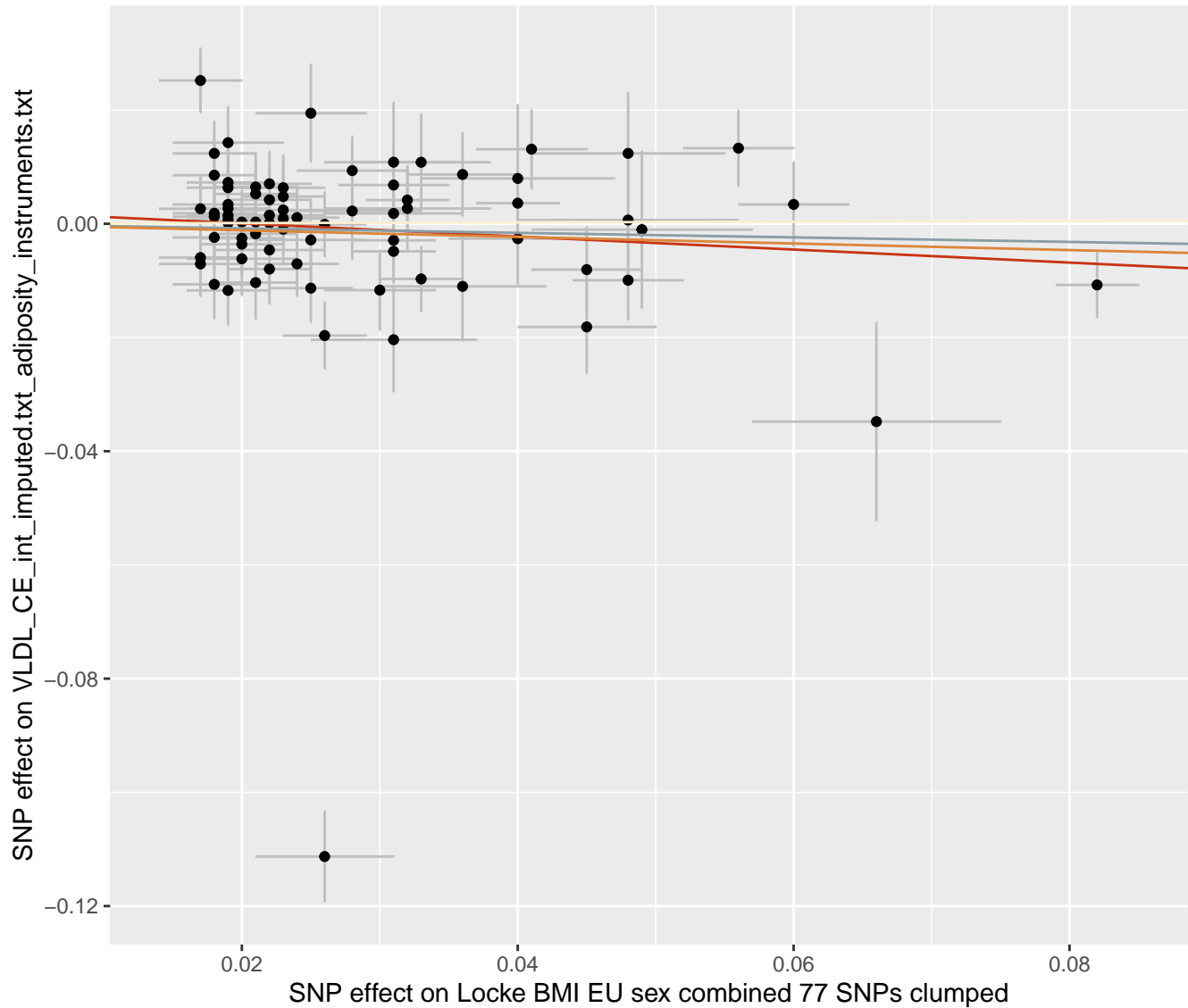


Inverse variance weighted (multiplicative random effects)

MR Egger

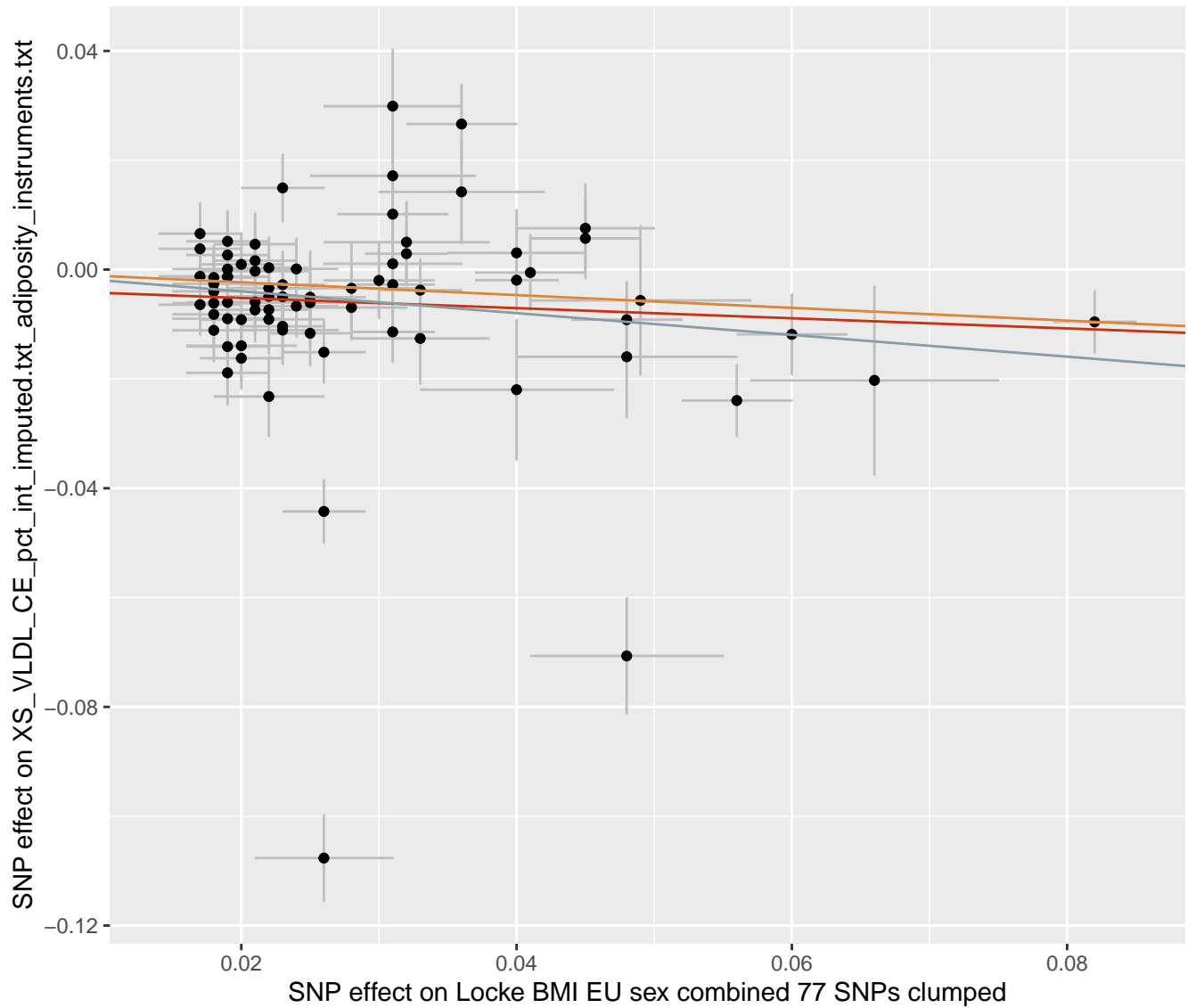
Weighted median

Weighted mode



# MR Test

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



# MR Test



Inverse variance weighted (multiplicative random effects)

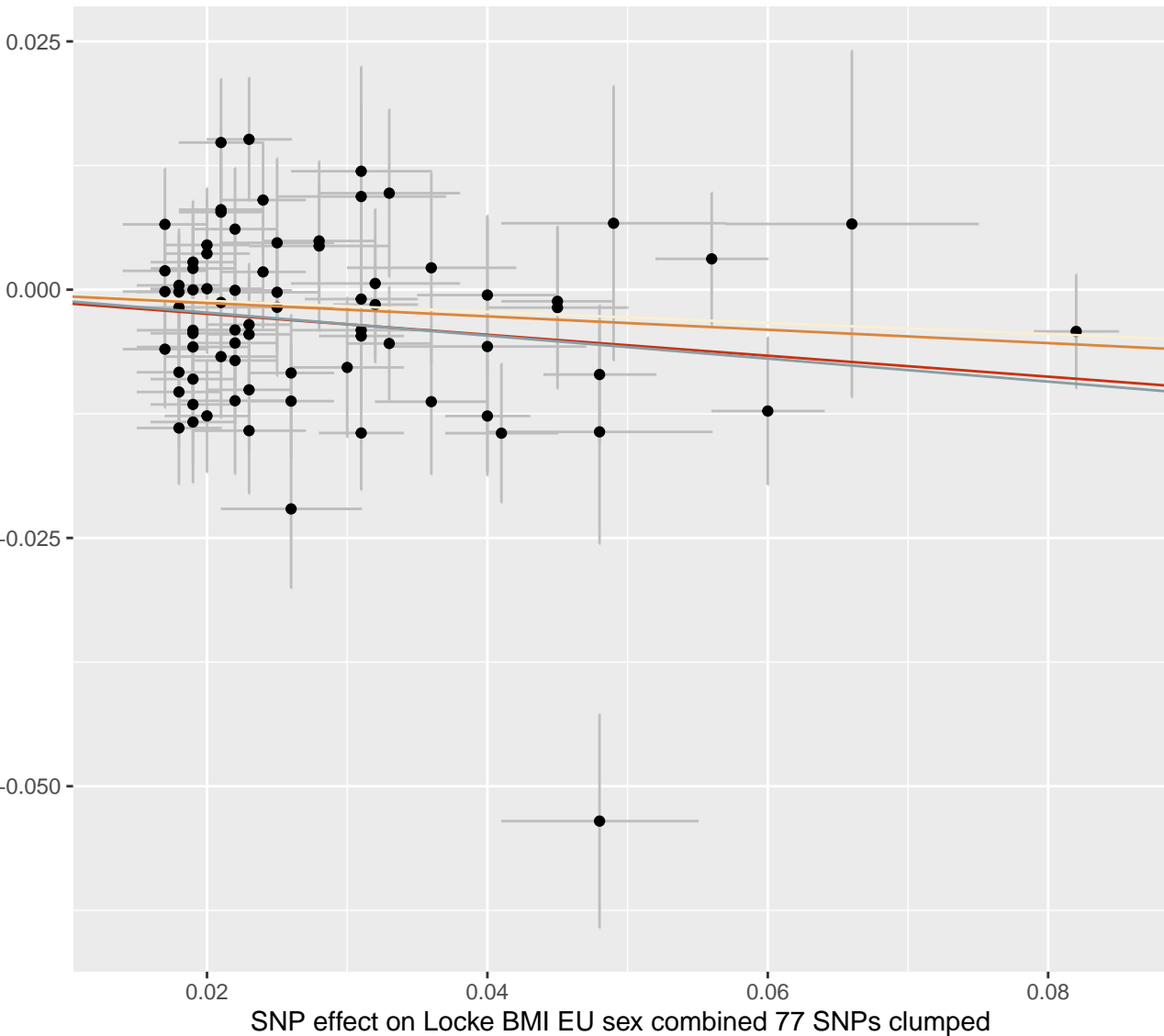
MR Egger



Weighted median

Weighted mode

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

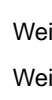


# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode

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

0.00

-0.05

-0.10

-0.15

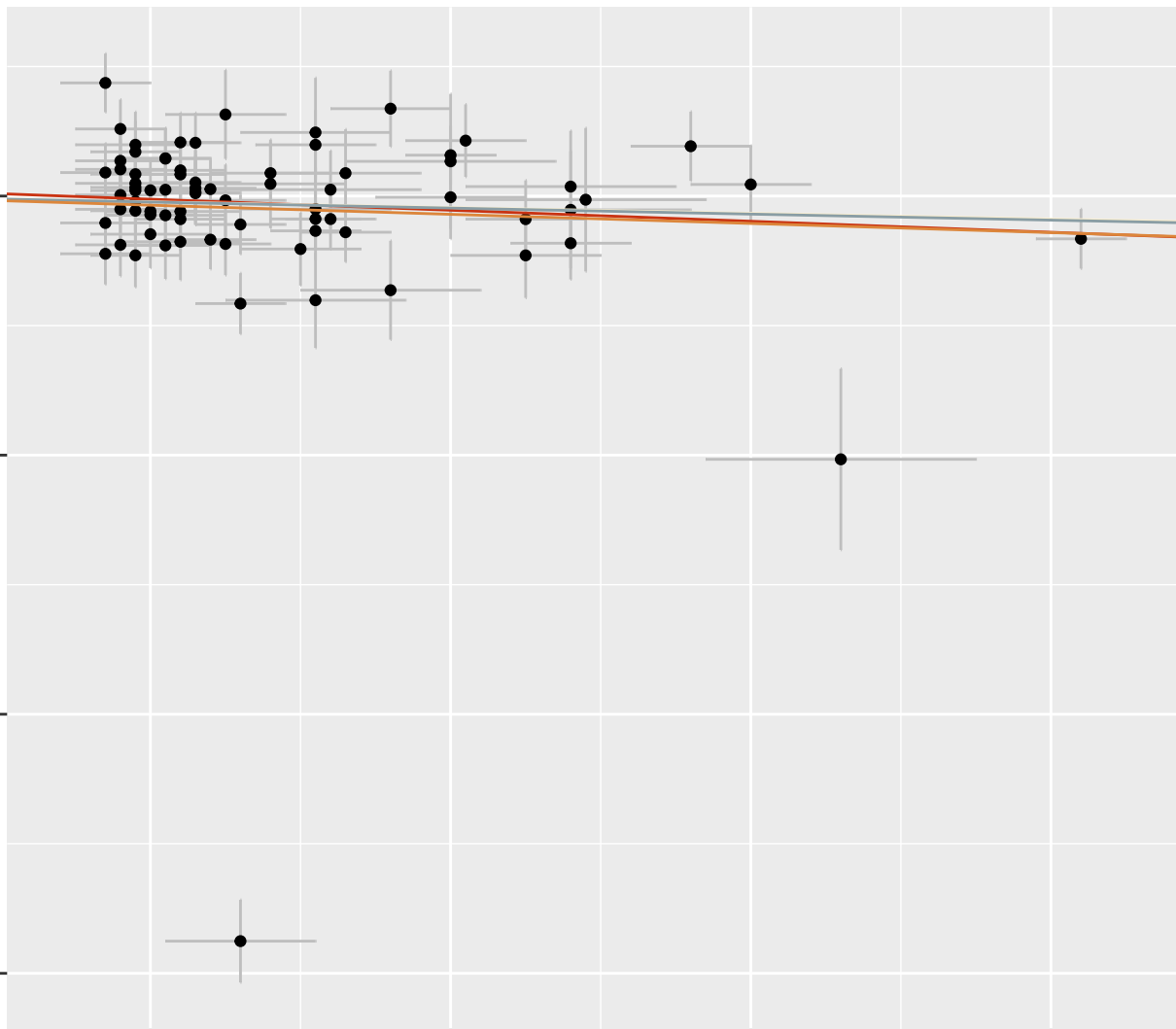
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test

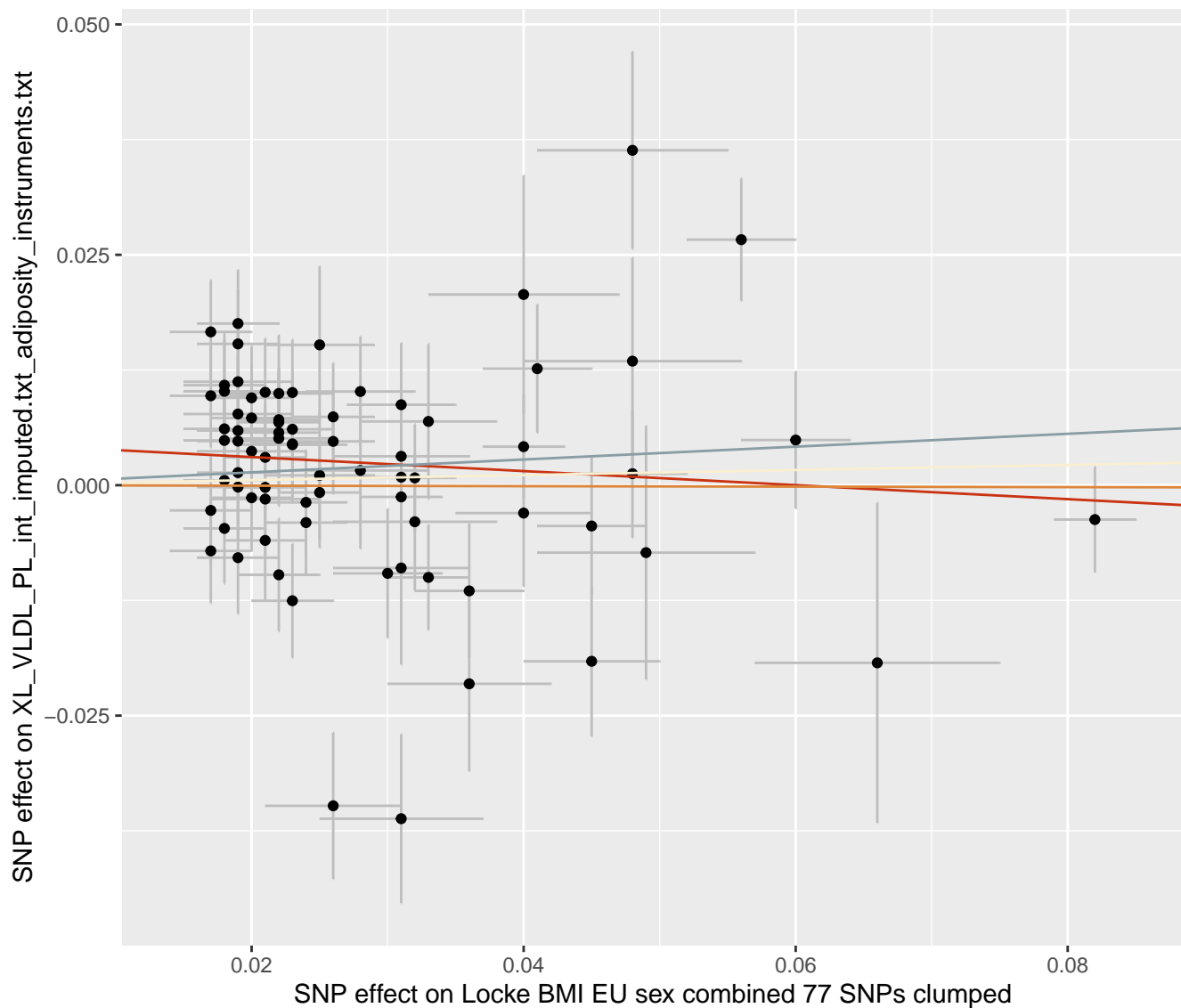


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test



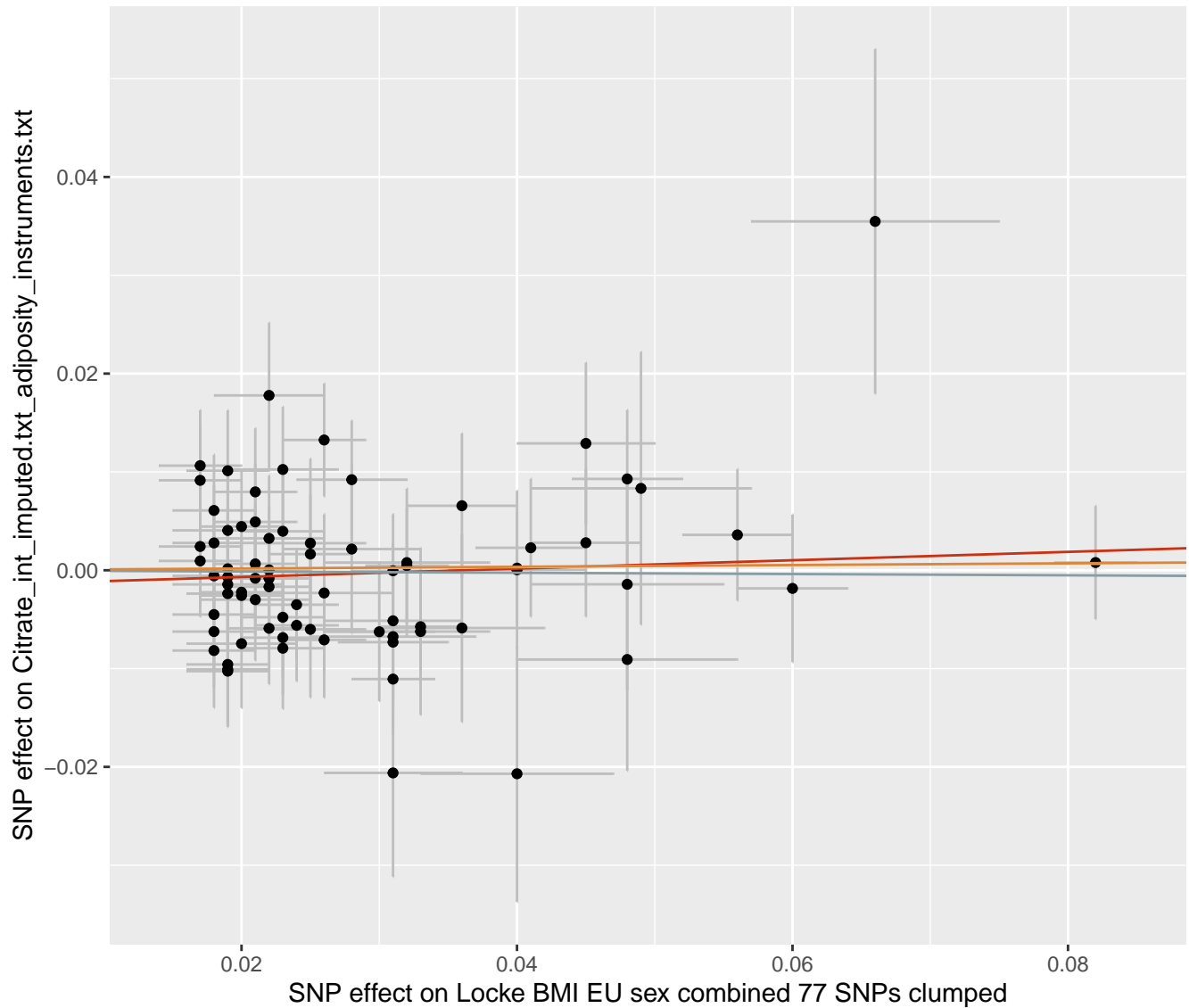
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test

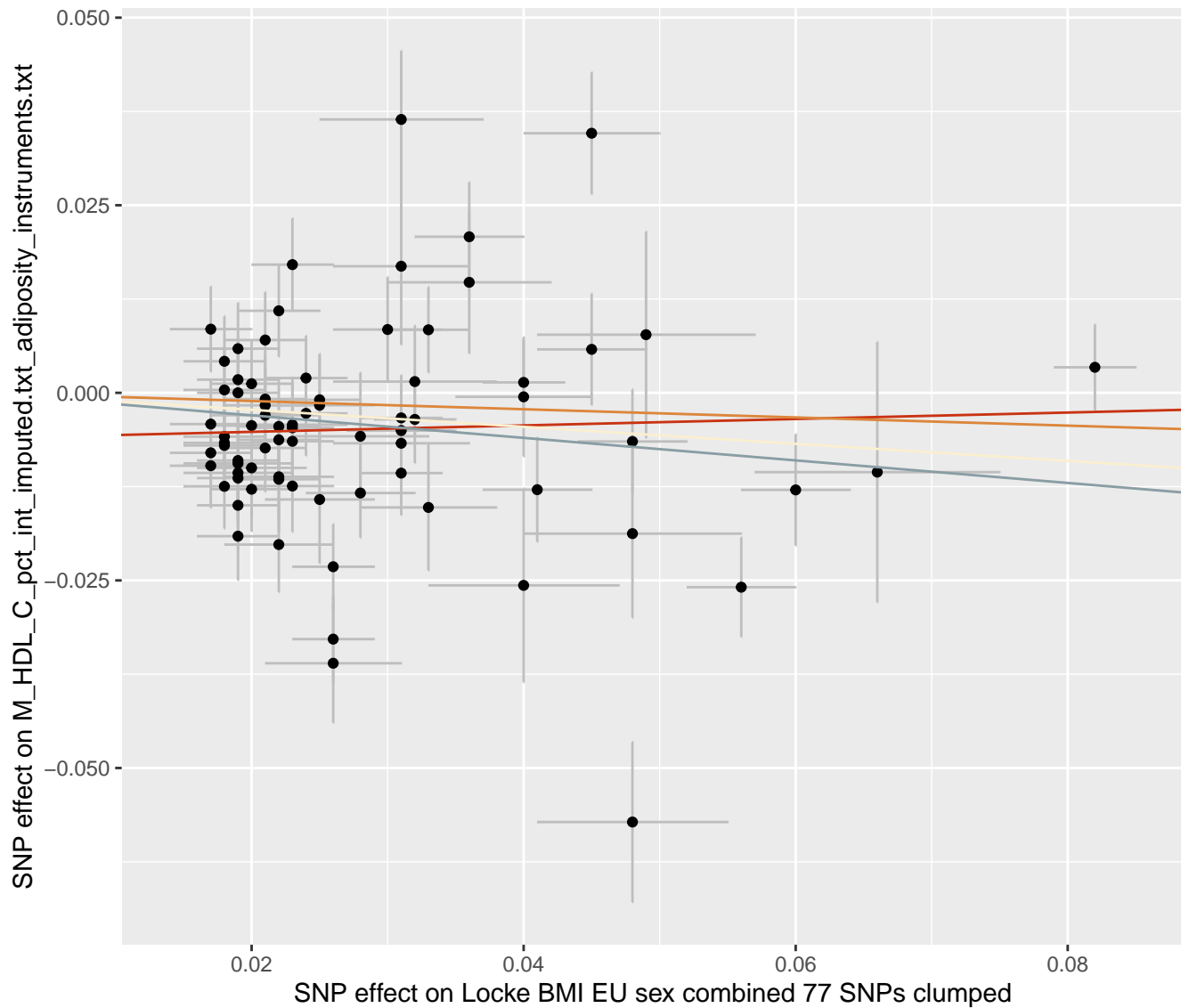


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



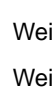


# MR Test



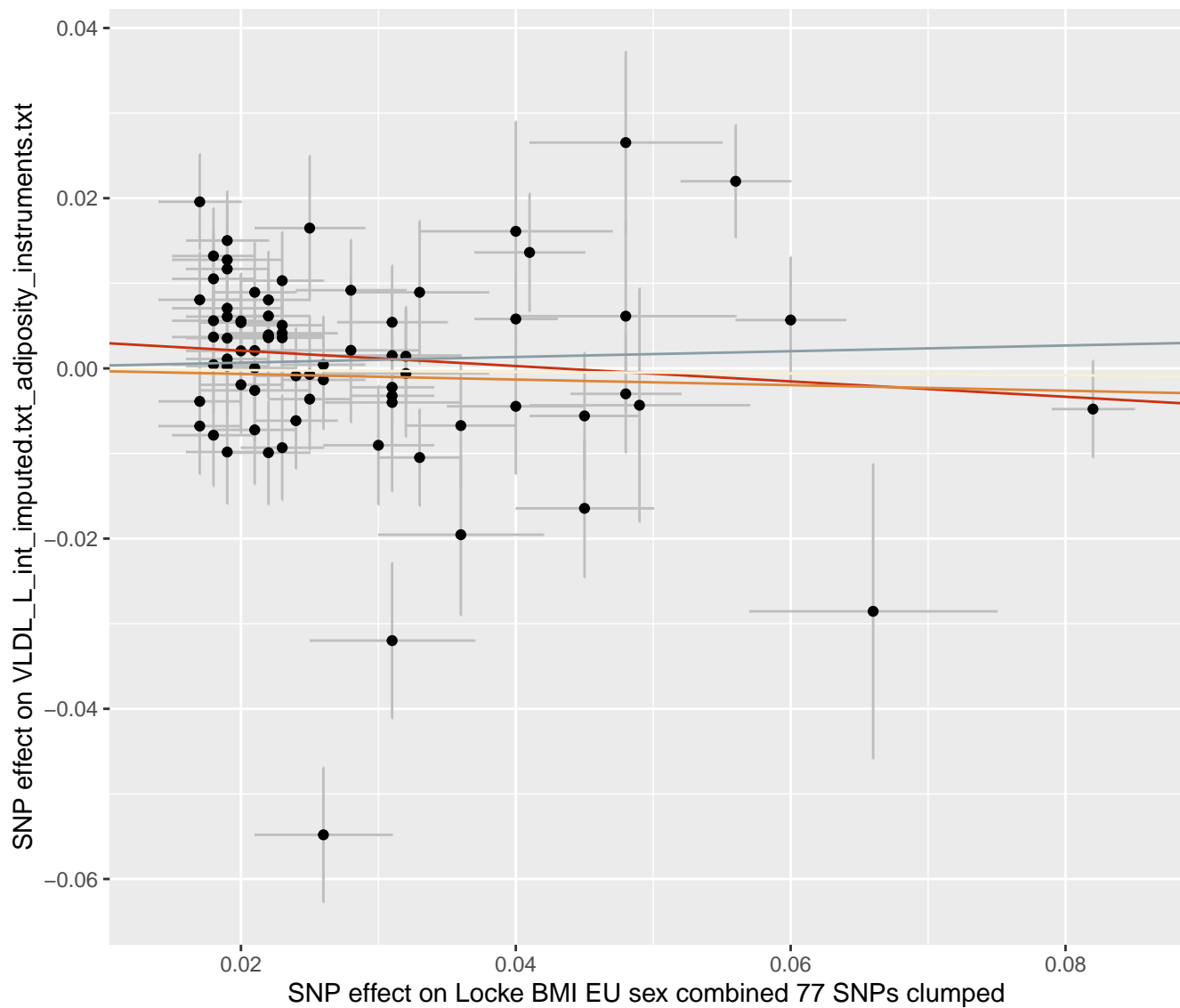
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test

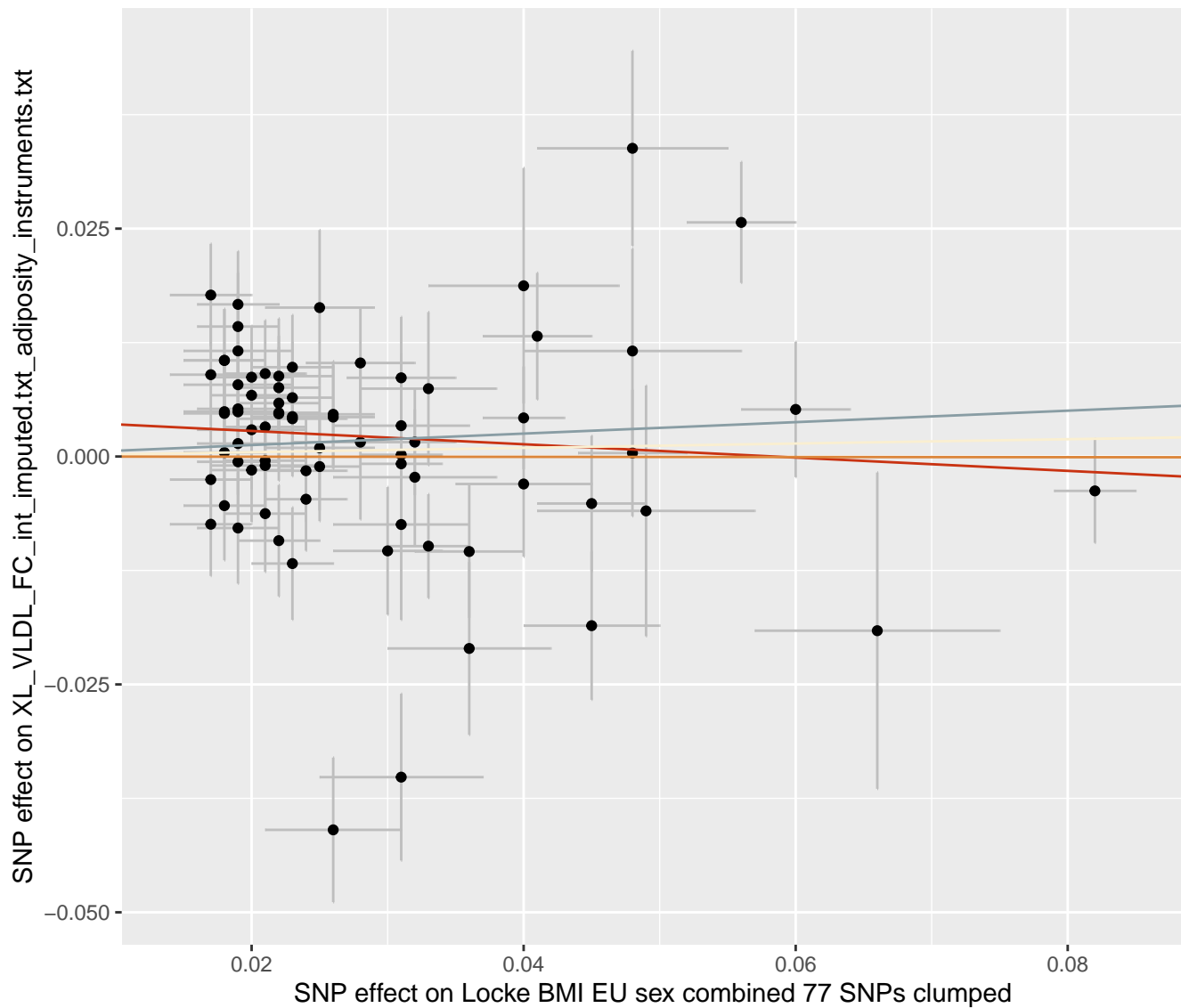


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test



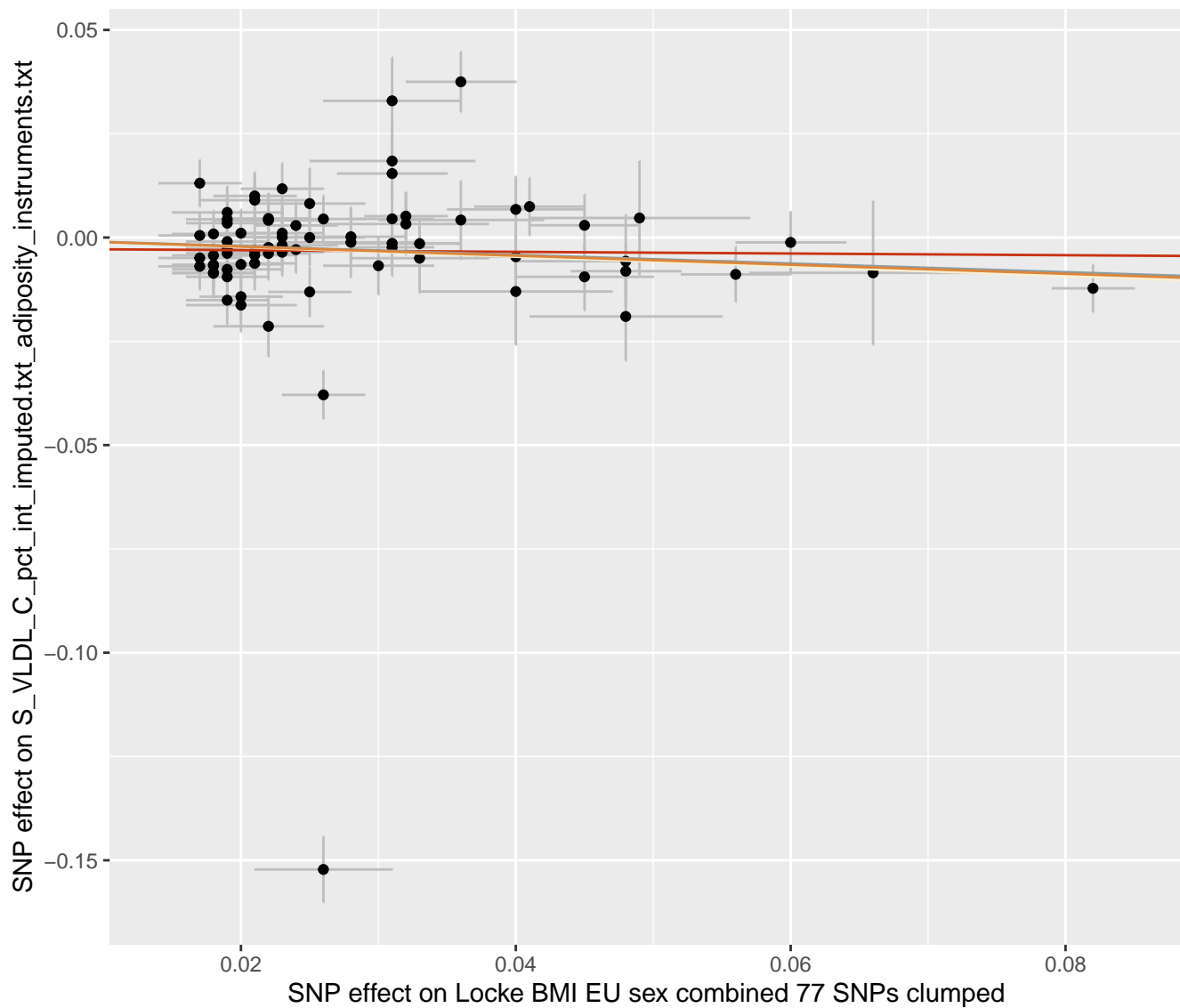
Inverse variance weighted (multiplicative random effects)

MR Egger



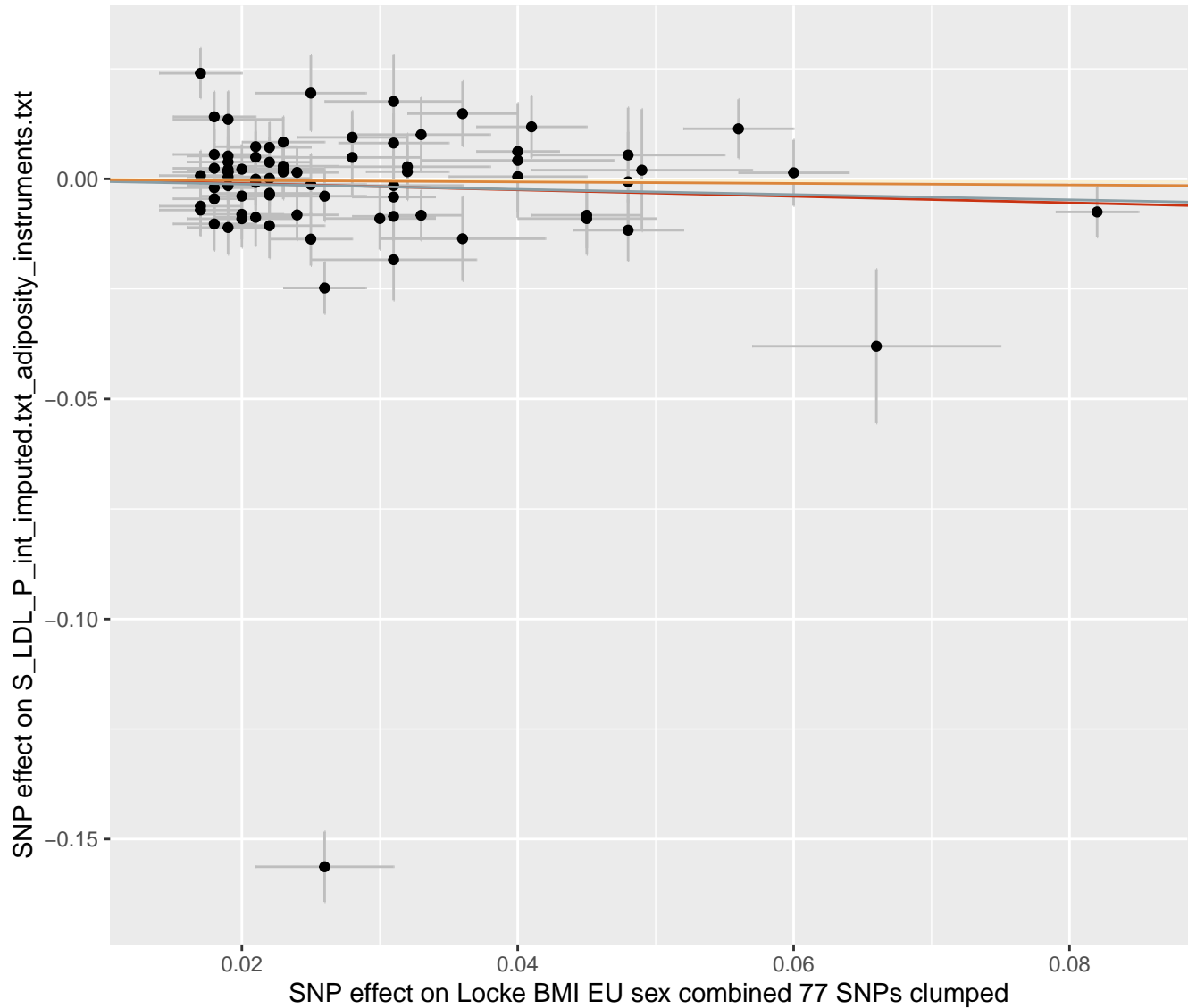
Weighted median

Weighted mode



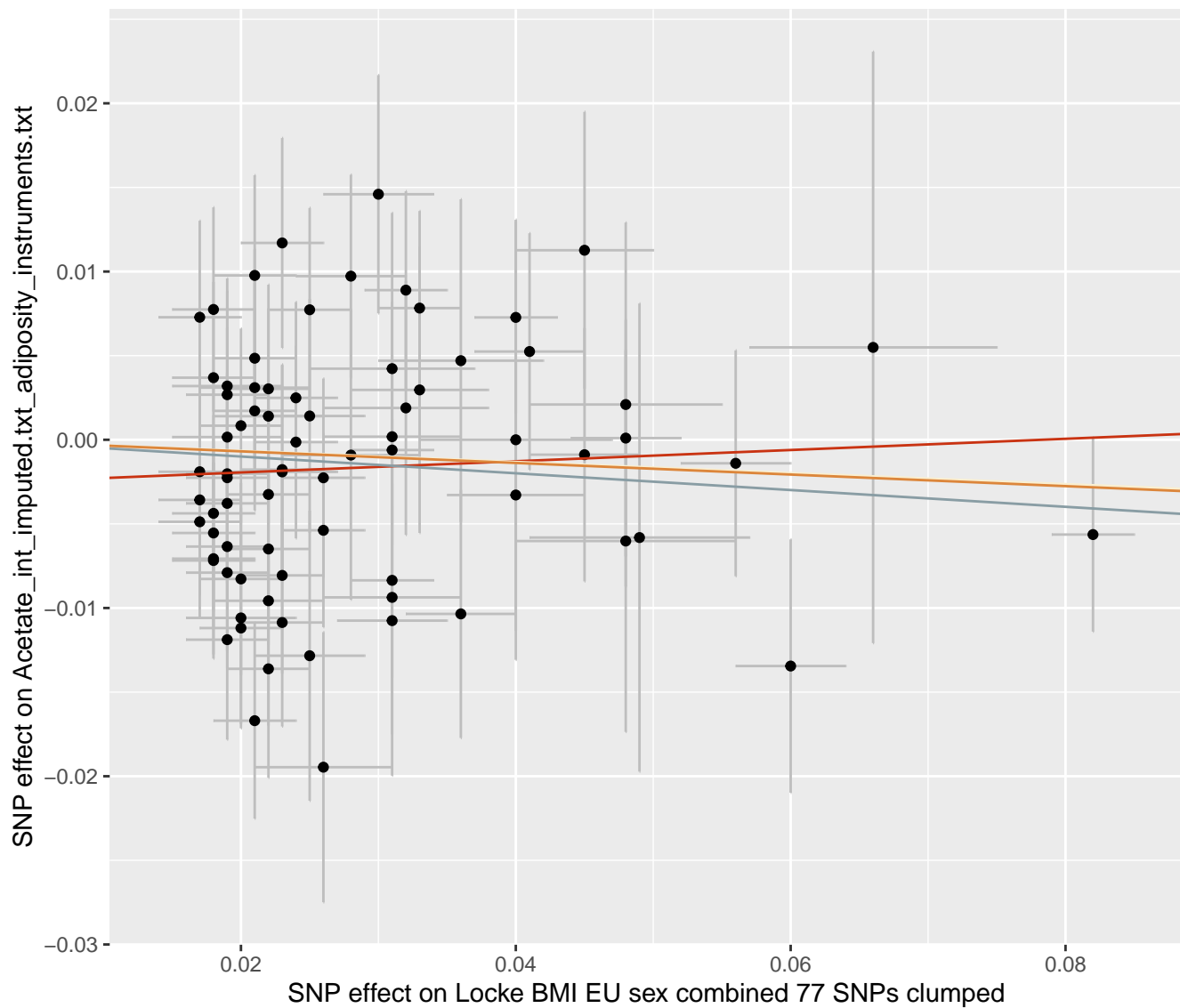
# MR Test

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



# MR Test

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



# MR Test

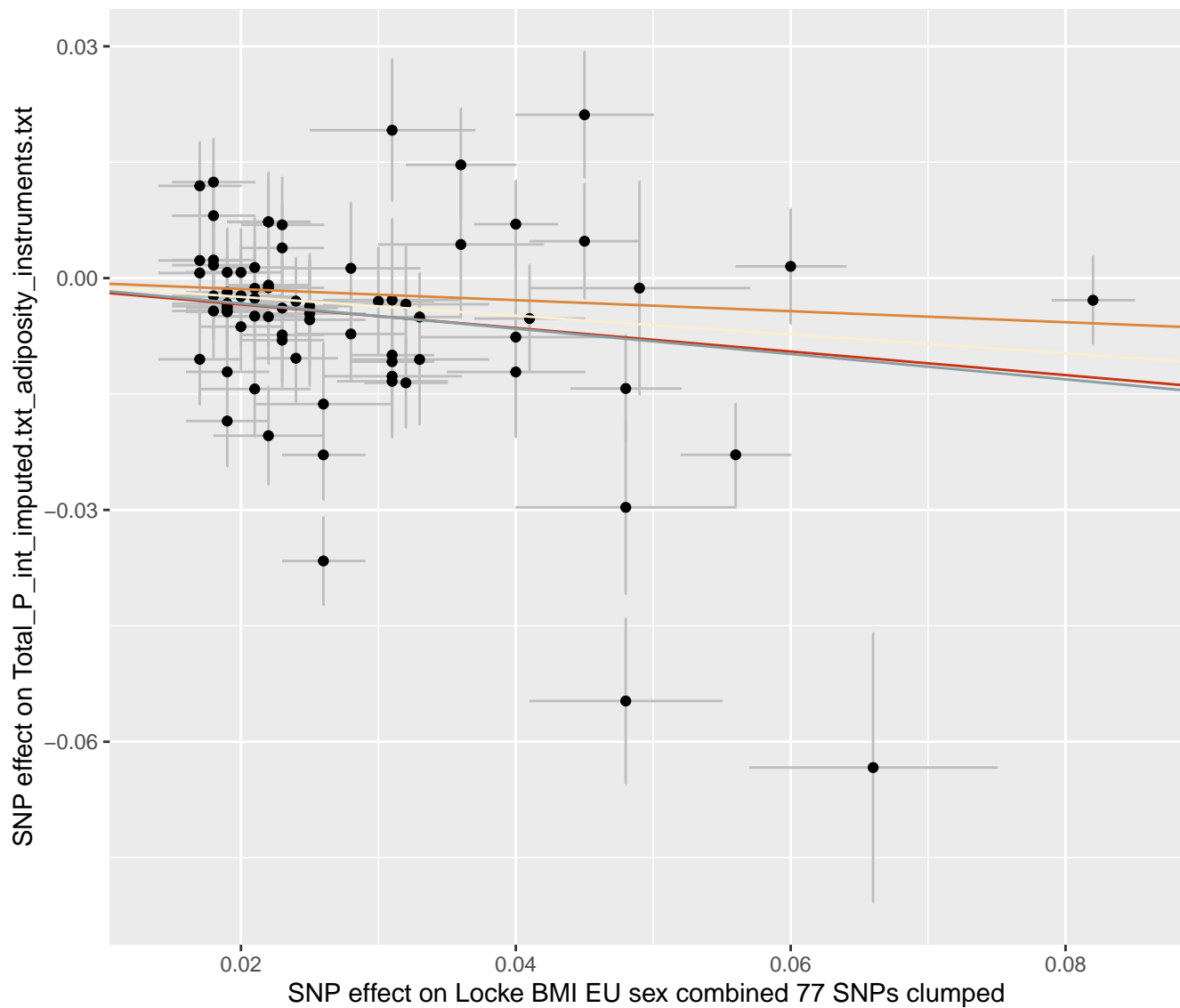


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test

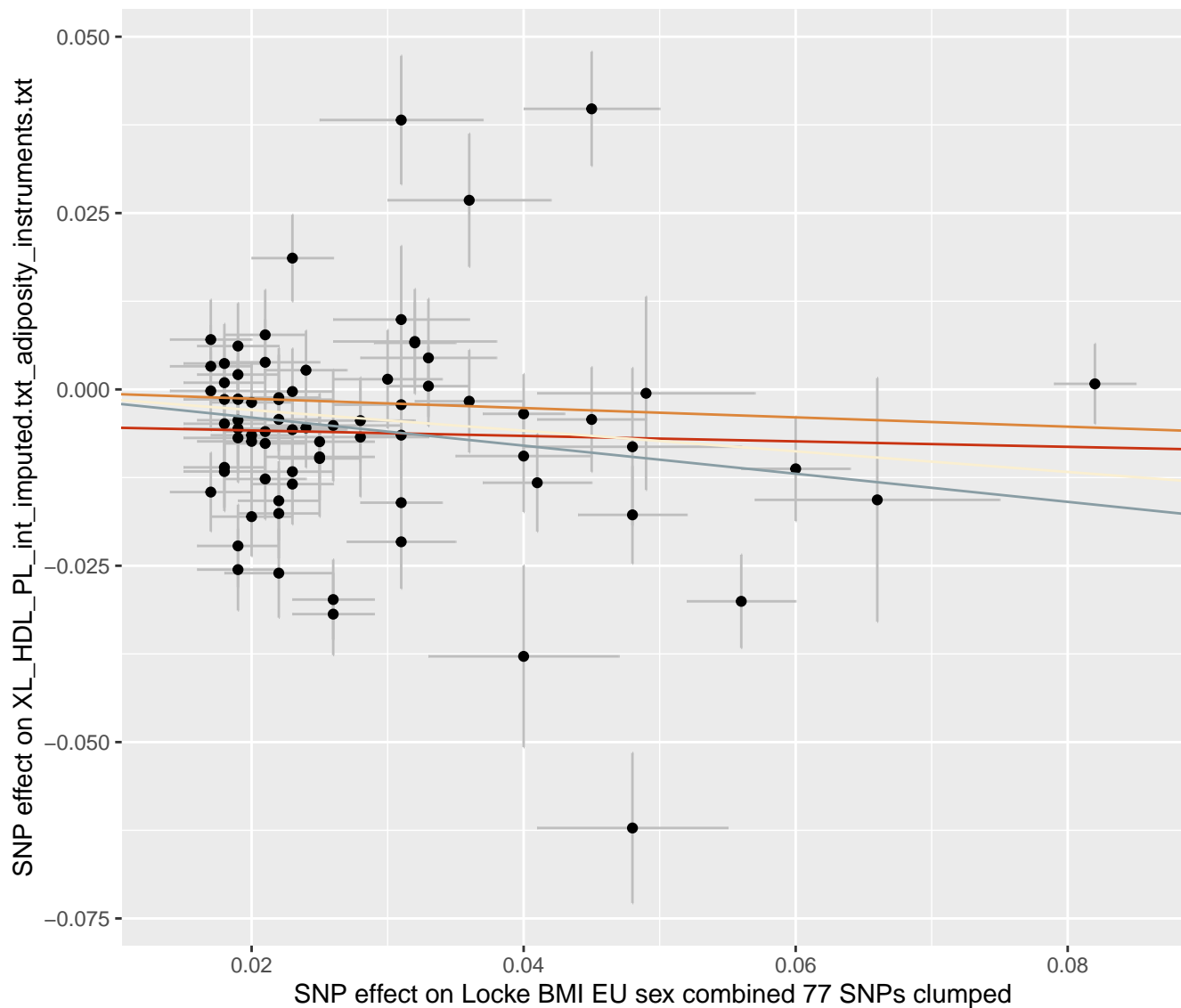


Inverse variance weighted (multiplicative random effects)

MR Egger

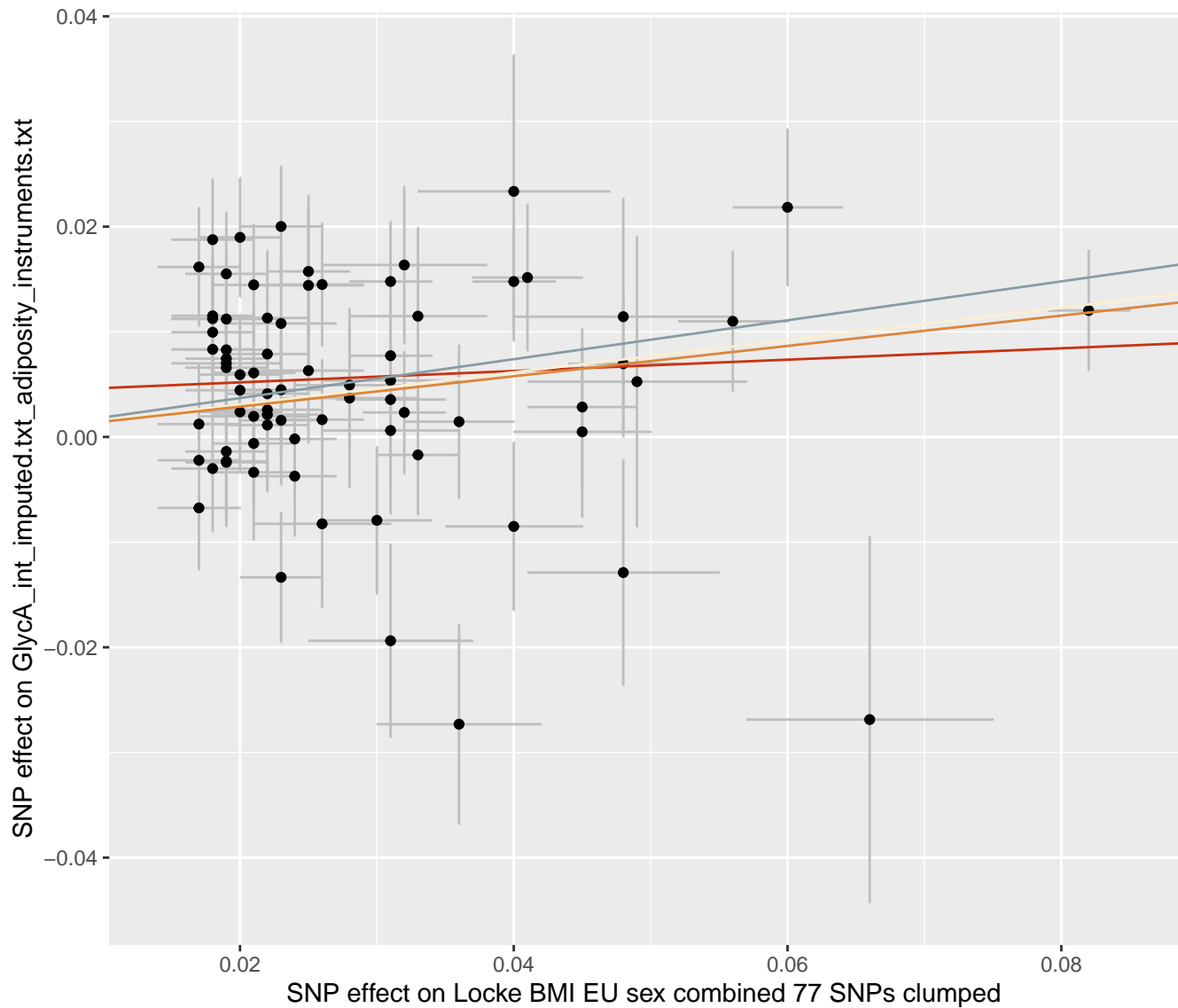
Weighted median

Weighted mode



# MR Test

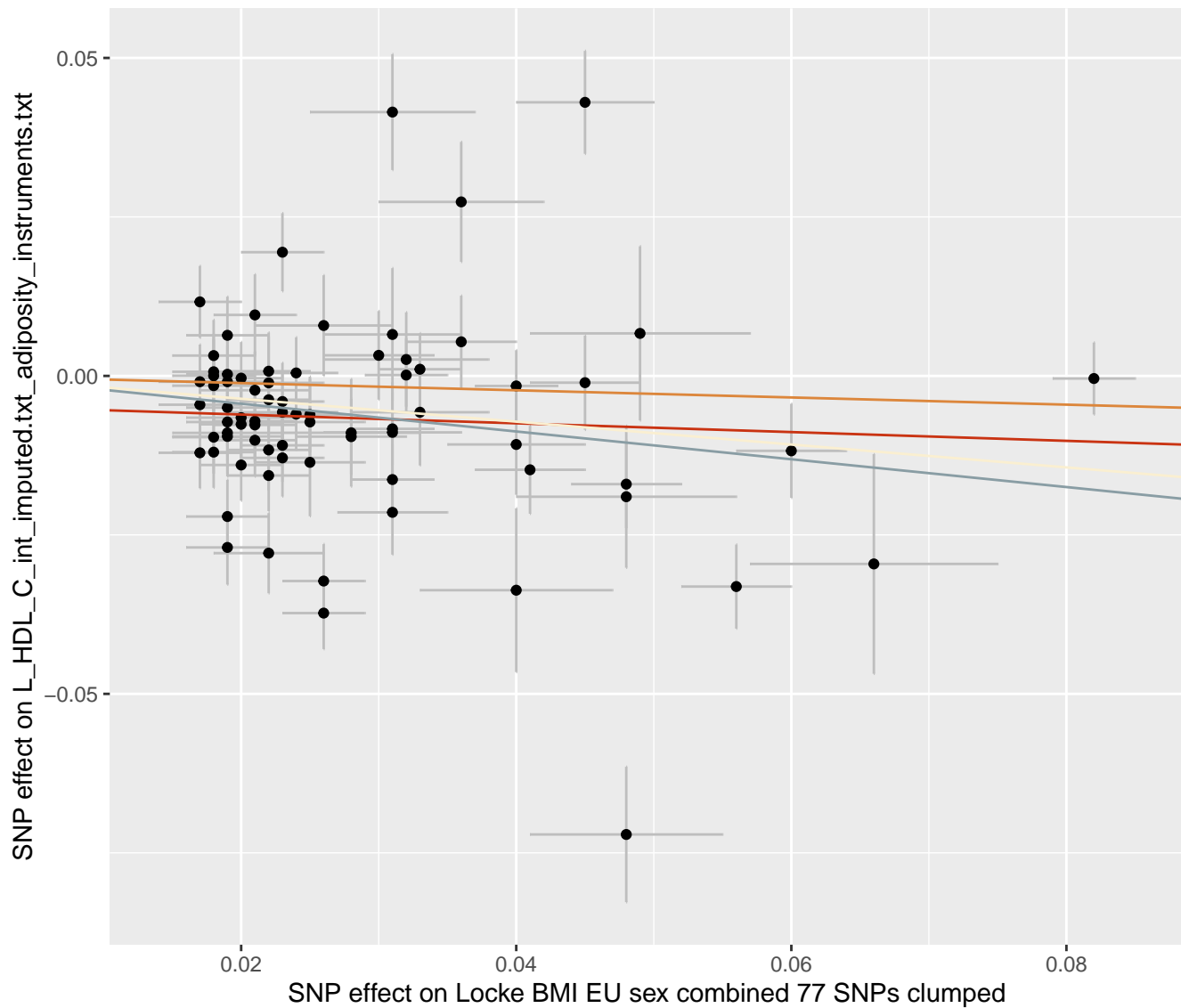
- Inverse variance weighted (multiplicative random effects)
- MR Egger
- Weighted median
- Weighted mode





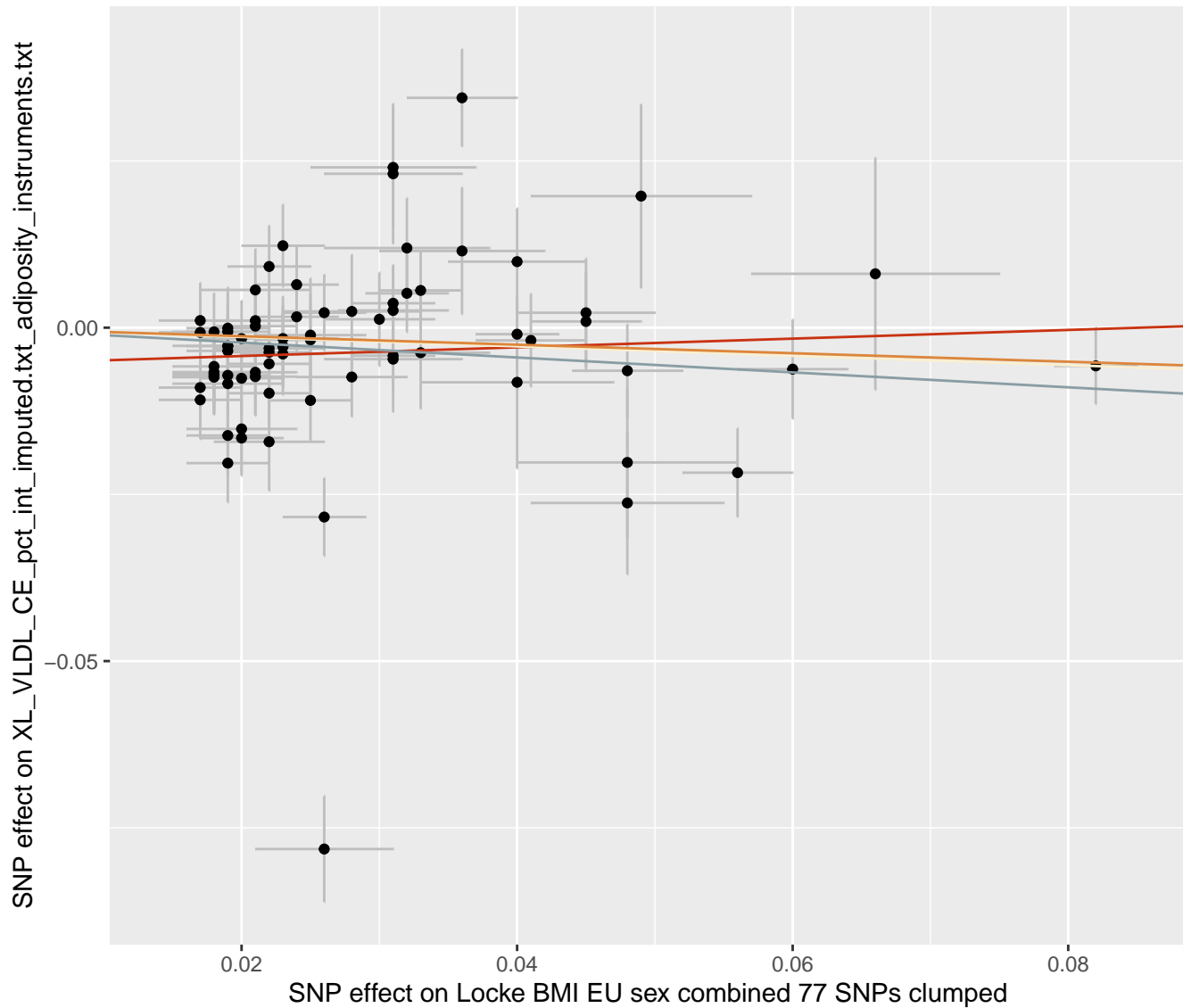
# MR Test

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



# MR Test

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

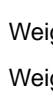


# MR Test



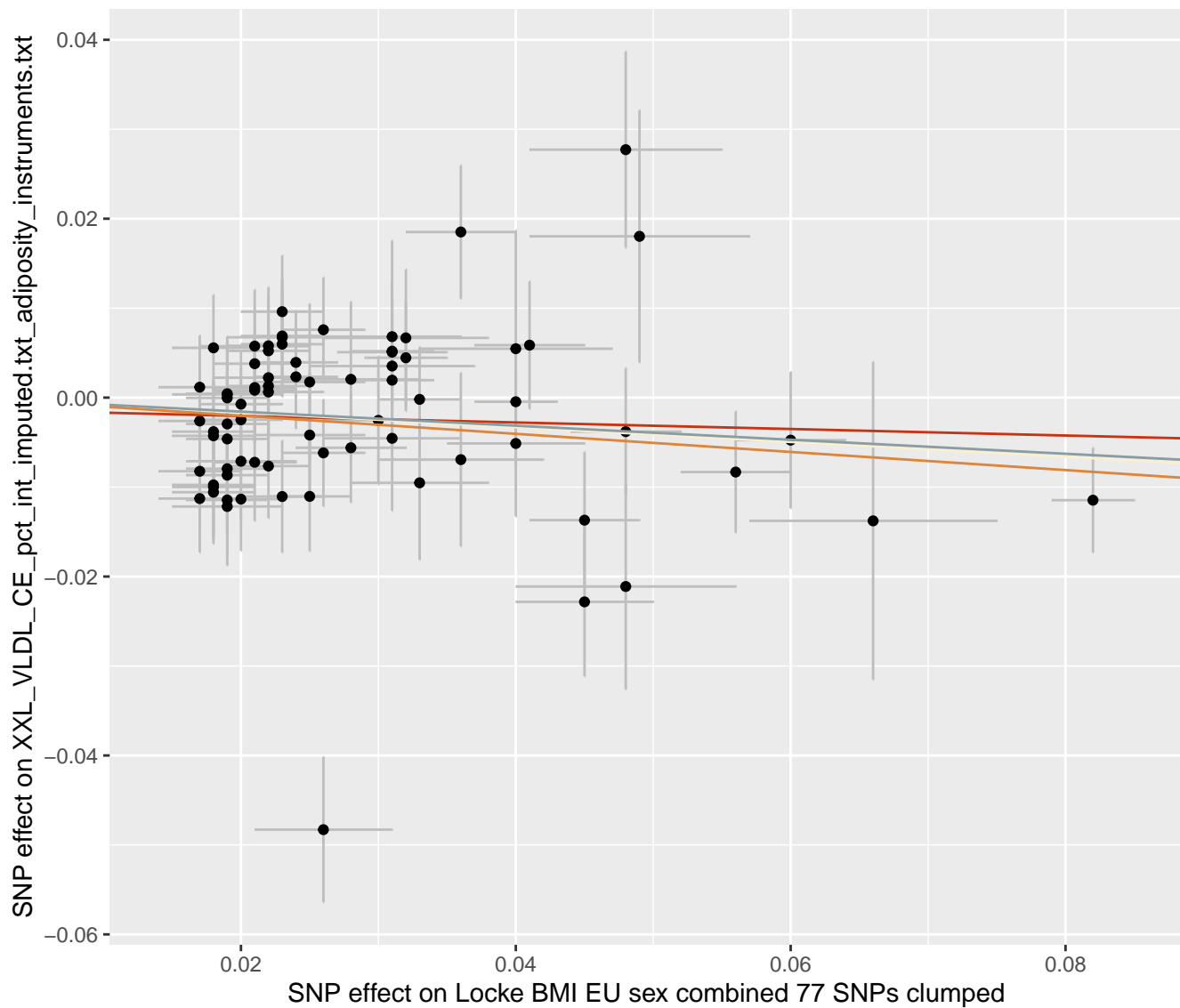
Inverse variance weighted (multiplicative random effects)

MR Egger



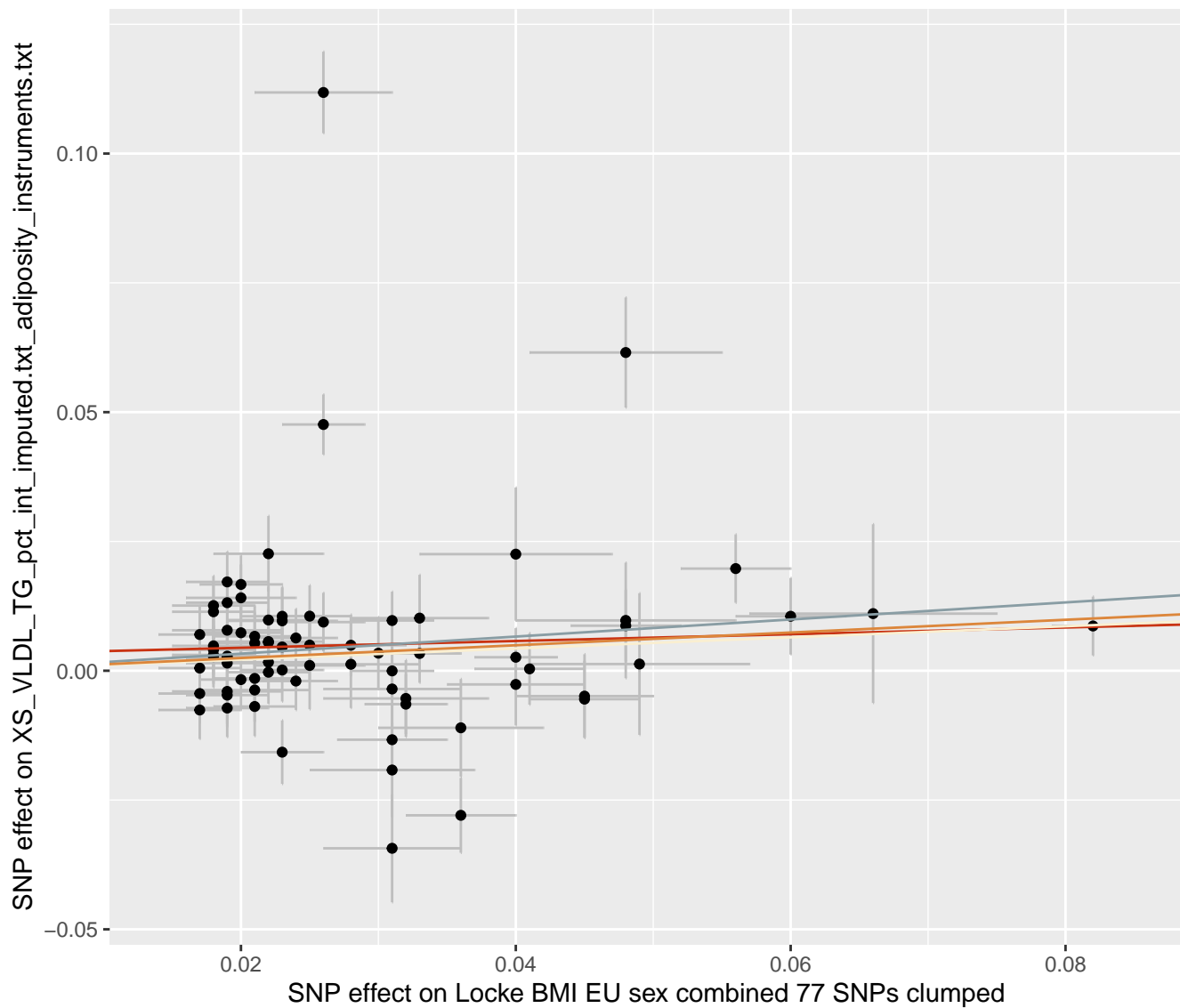
Weighted median

Weighted mode



# MR Test

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



# MR Test



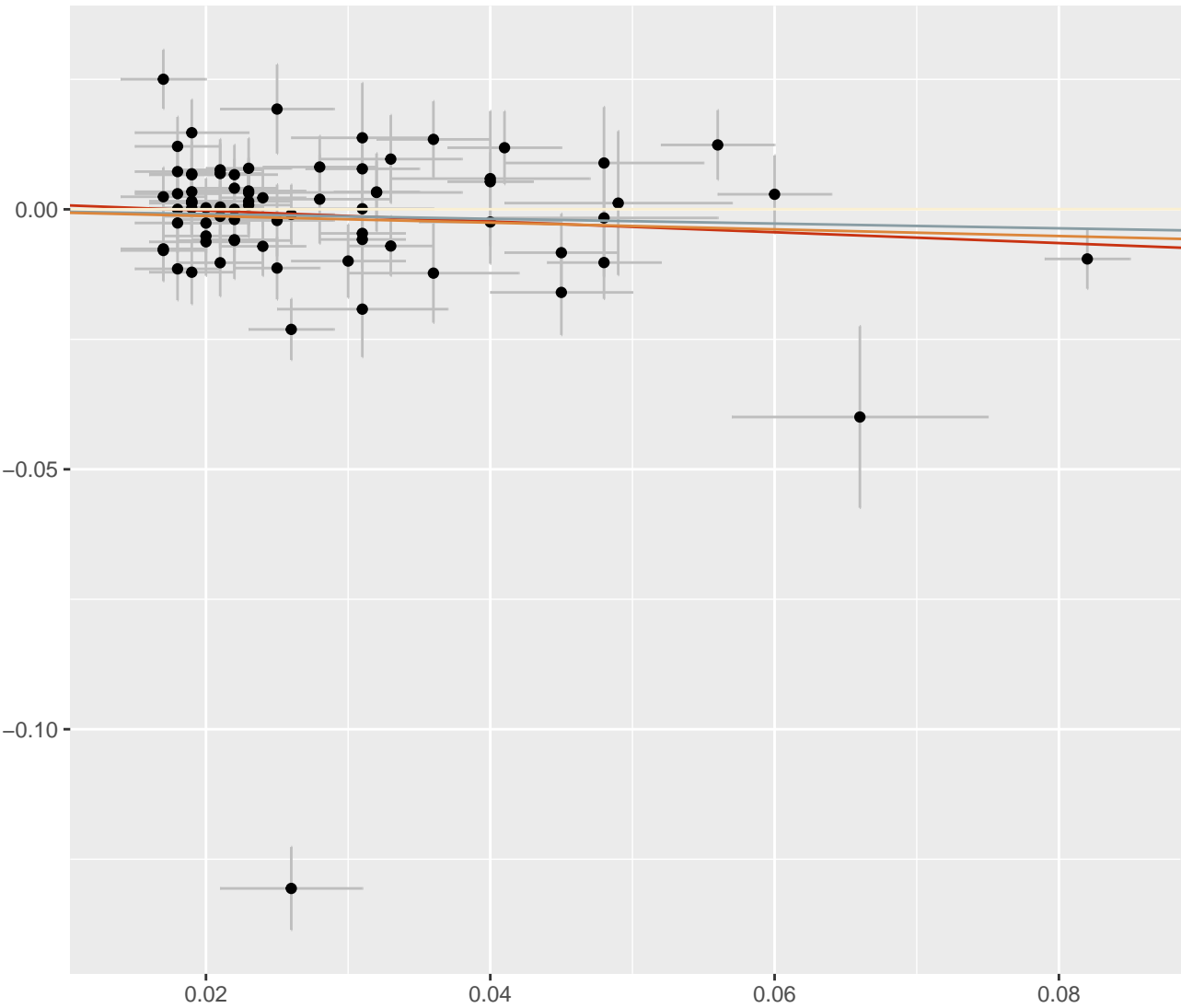
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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



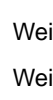
SNP effect on Locke BMI EU sex combined 77 SNPs clumped

# MR Test



Inverse variance weighted (multiplicative random effects)

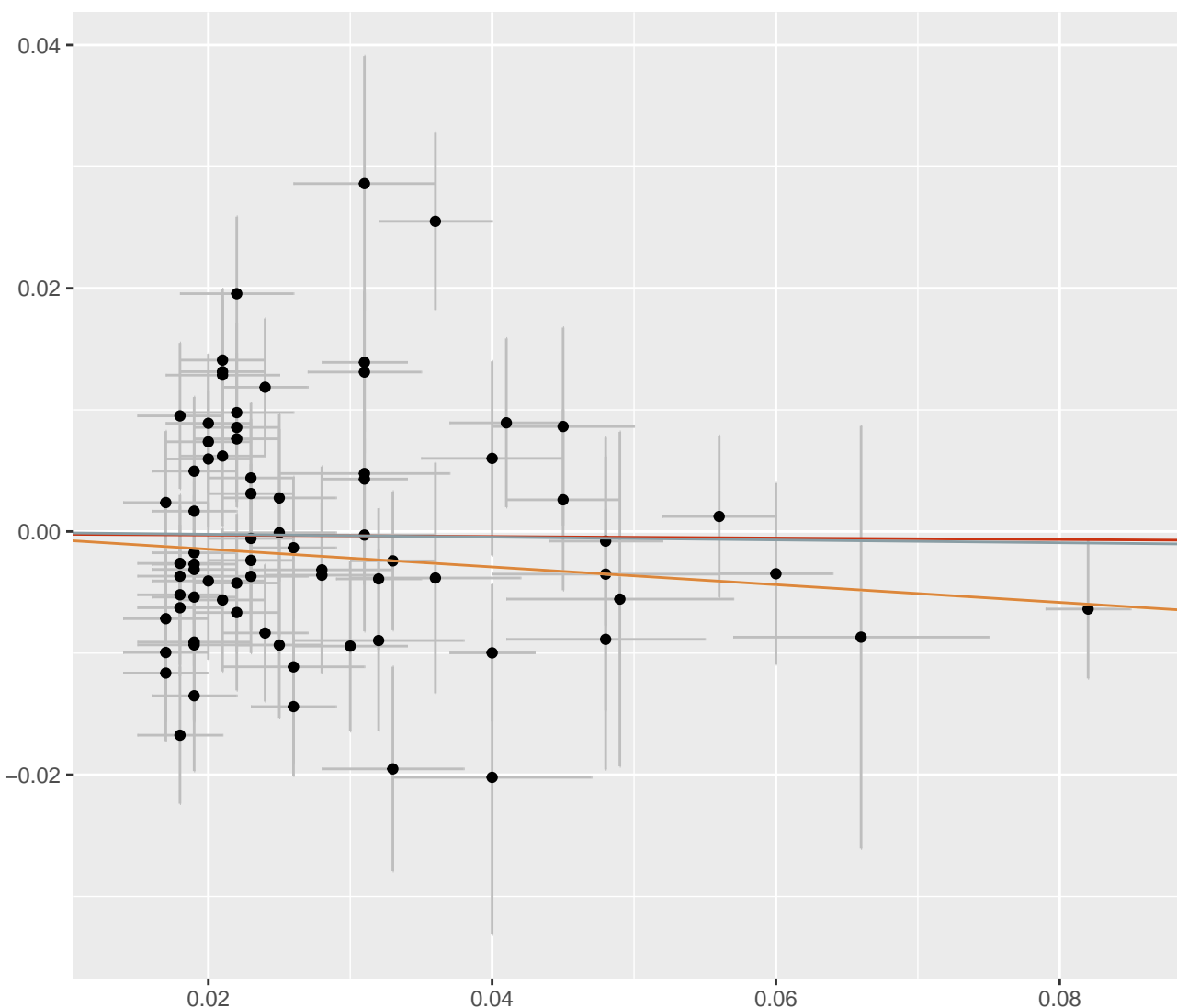
MR Egger



Weighted median

Weighted mode

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



SNP effect on Locke BMI EU sex combined 77 SNPs clumped

# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode

SNP effect on L\_LDL\_PL\_int\_imputed.txt adiposity\_instruments.txt

0.00

-0.05

-0.10

-0.15

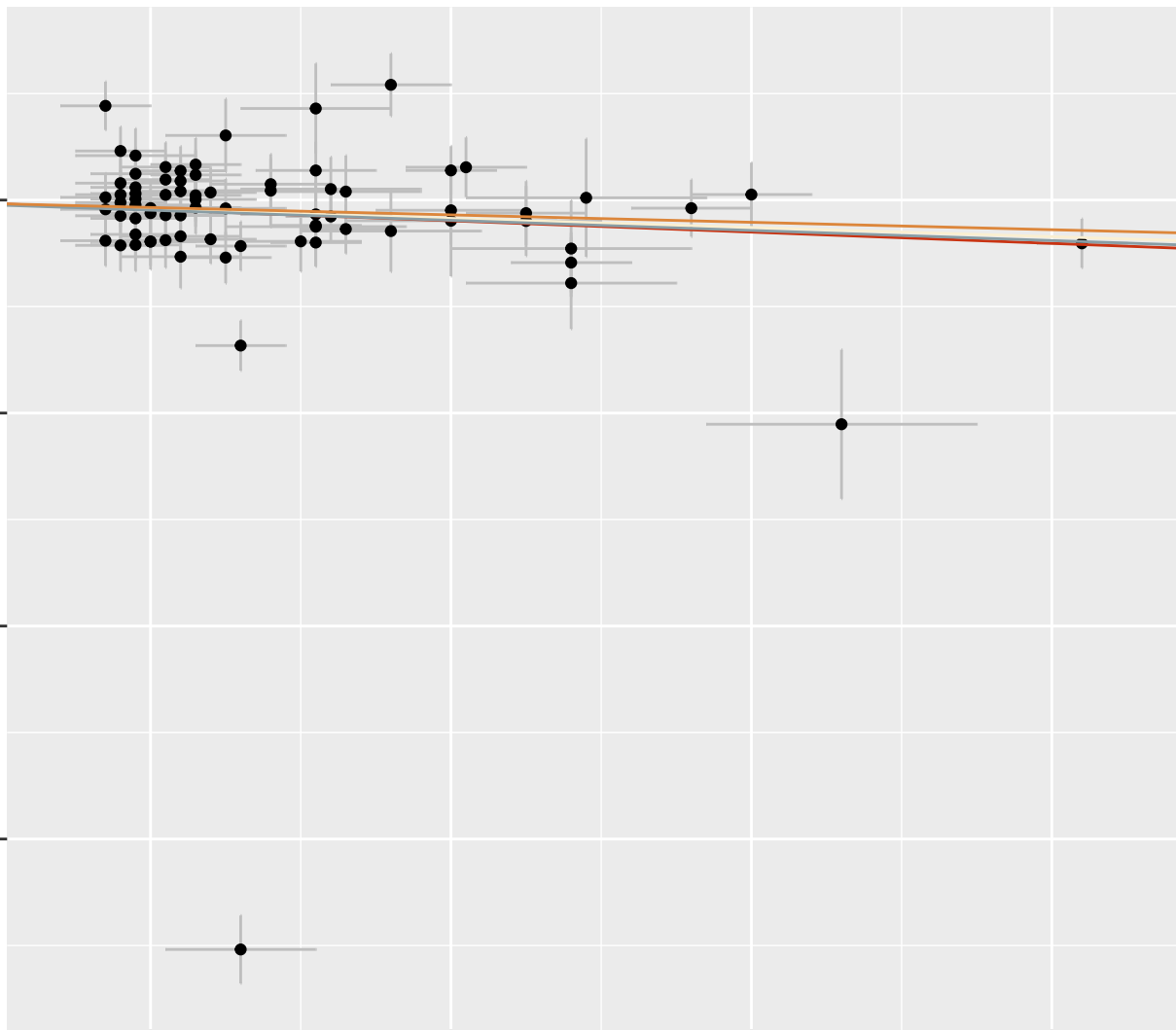
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# 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

0.00

-0.05

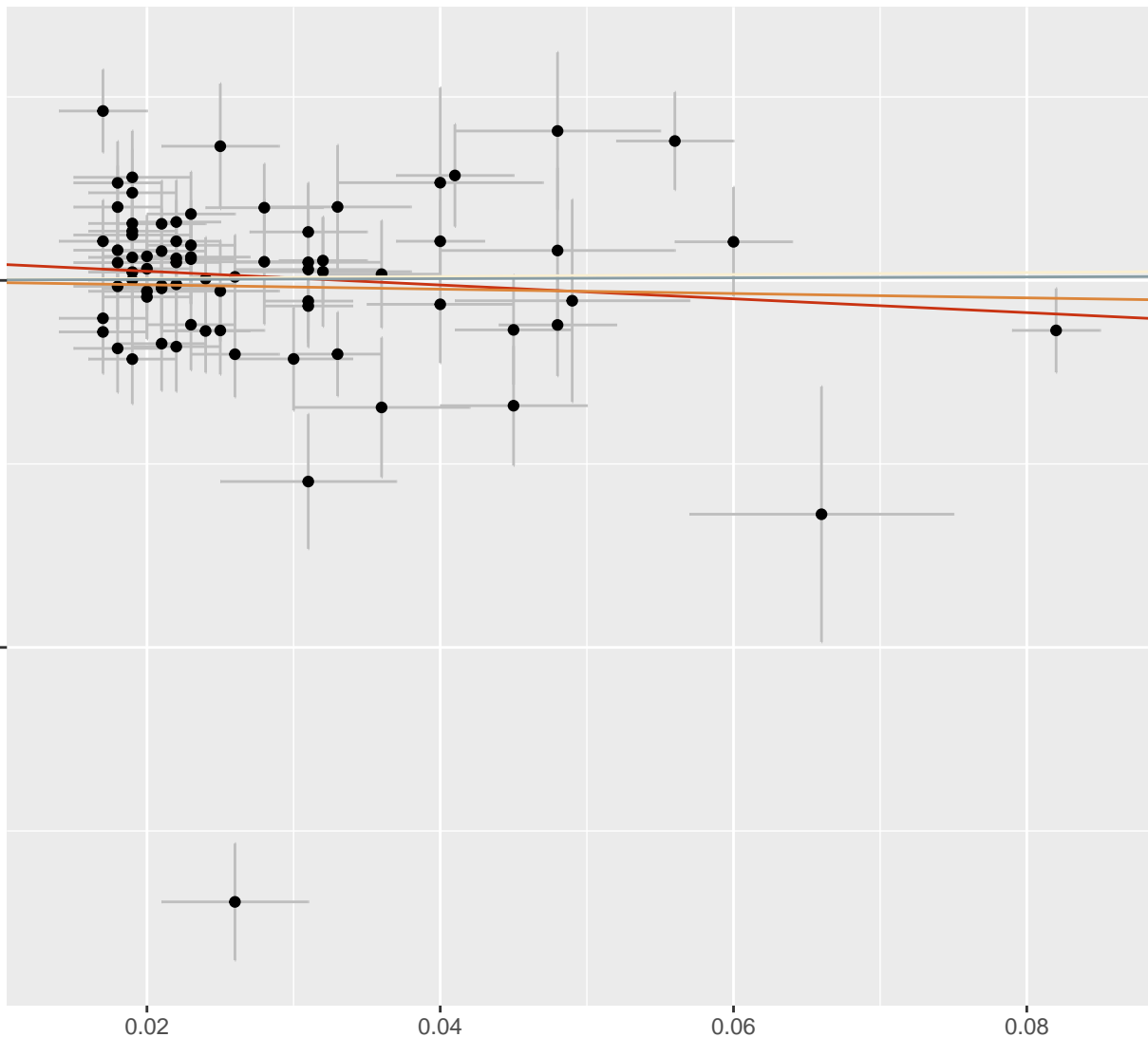
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped





# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.05

0.00

-0.05

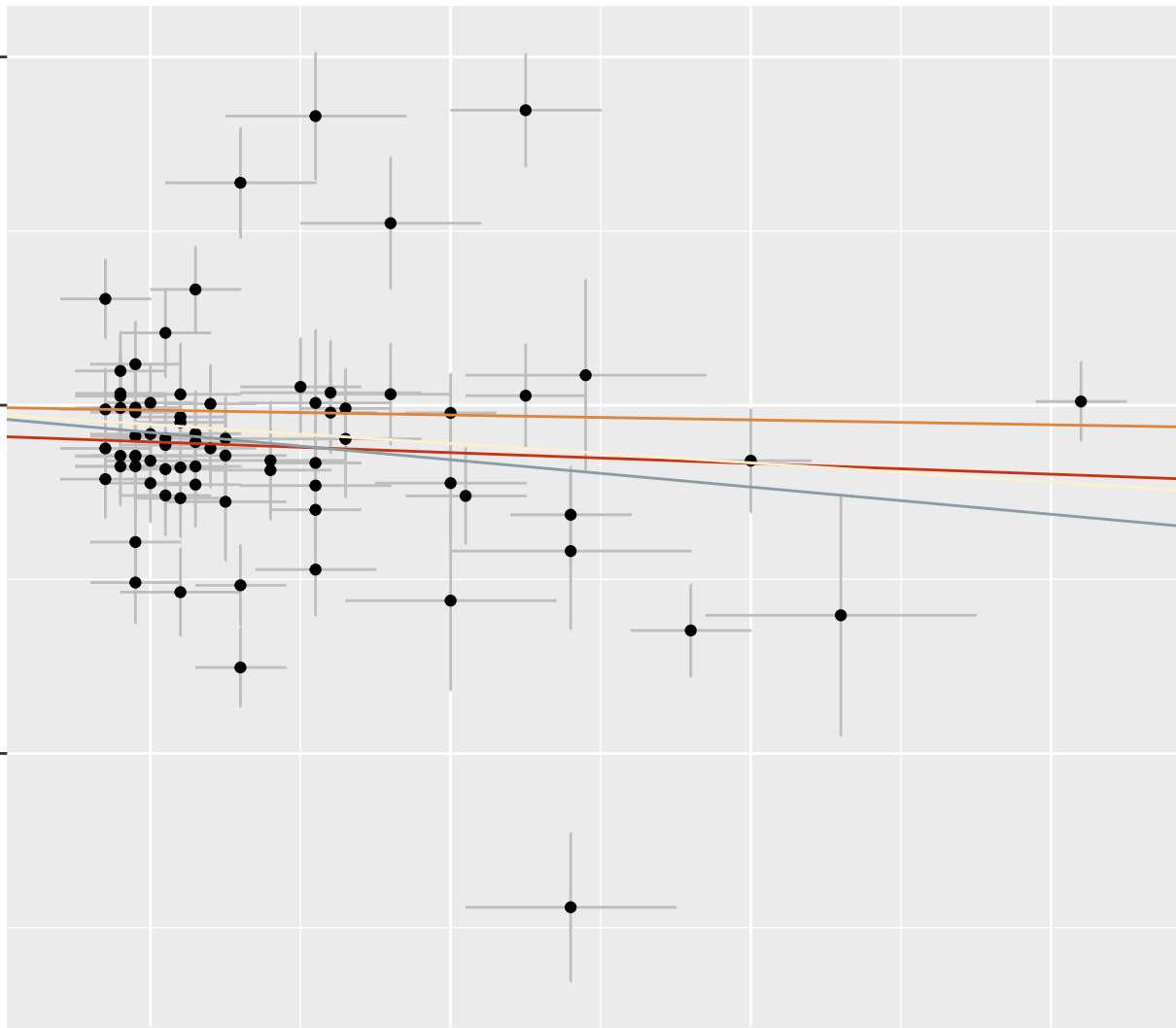
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test



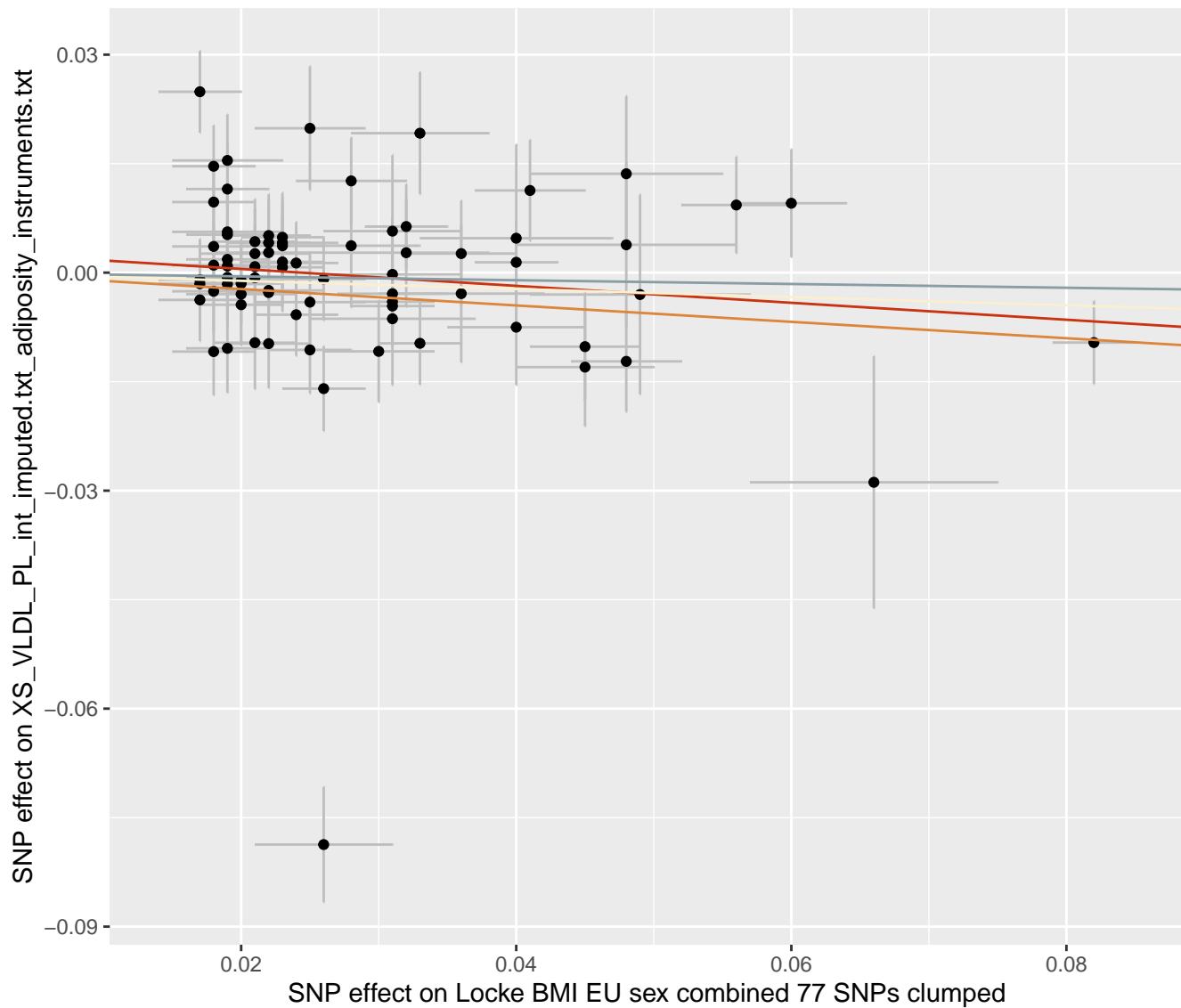
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.00

-0.05

-0.10

-0.15

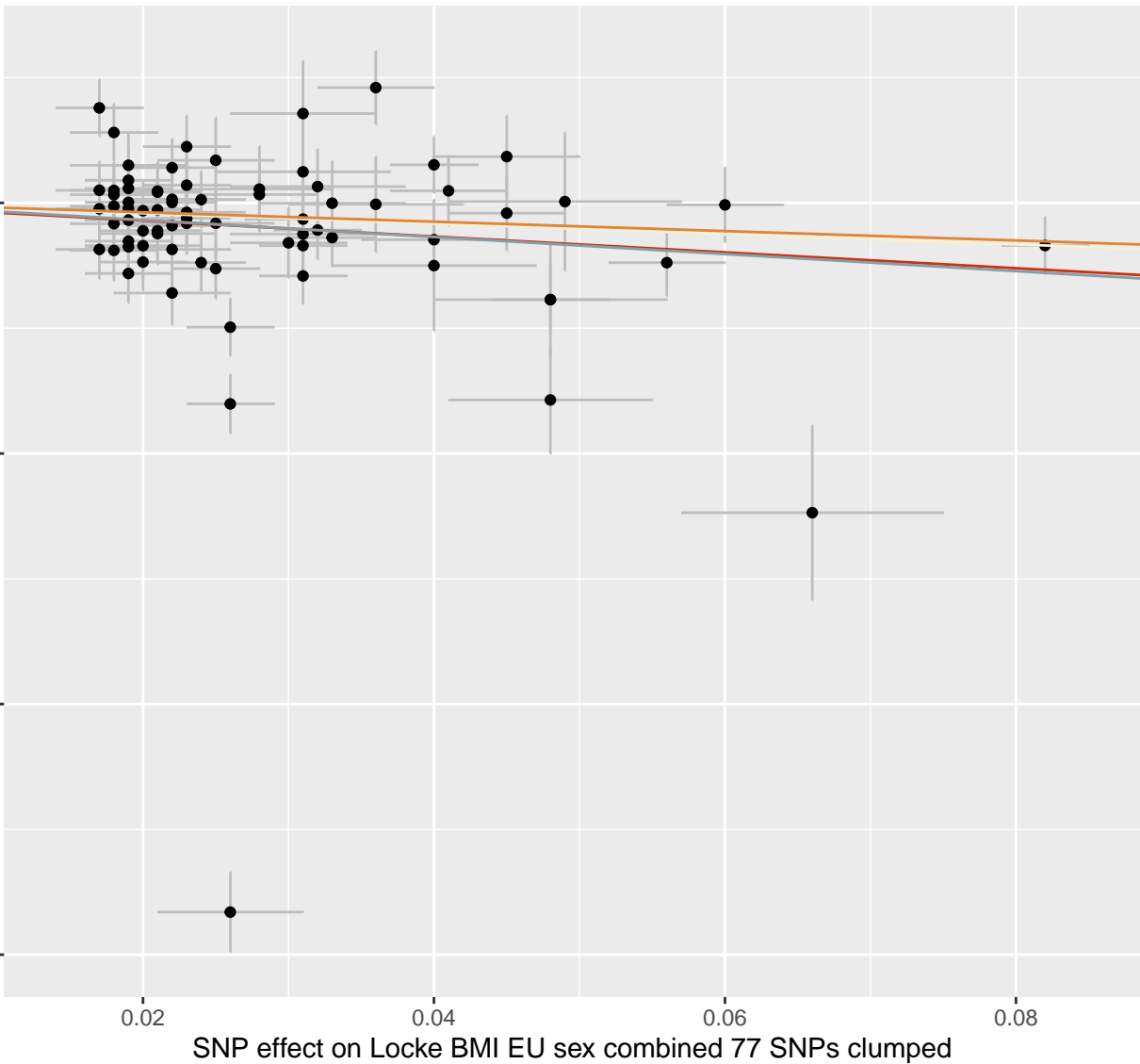
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# 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

0.00

-0.05

-0.10

-0.15

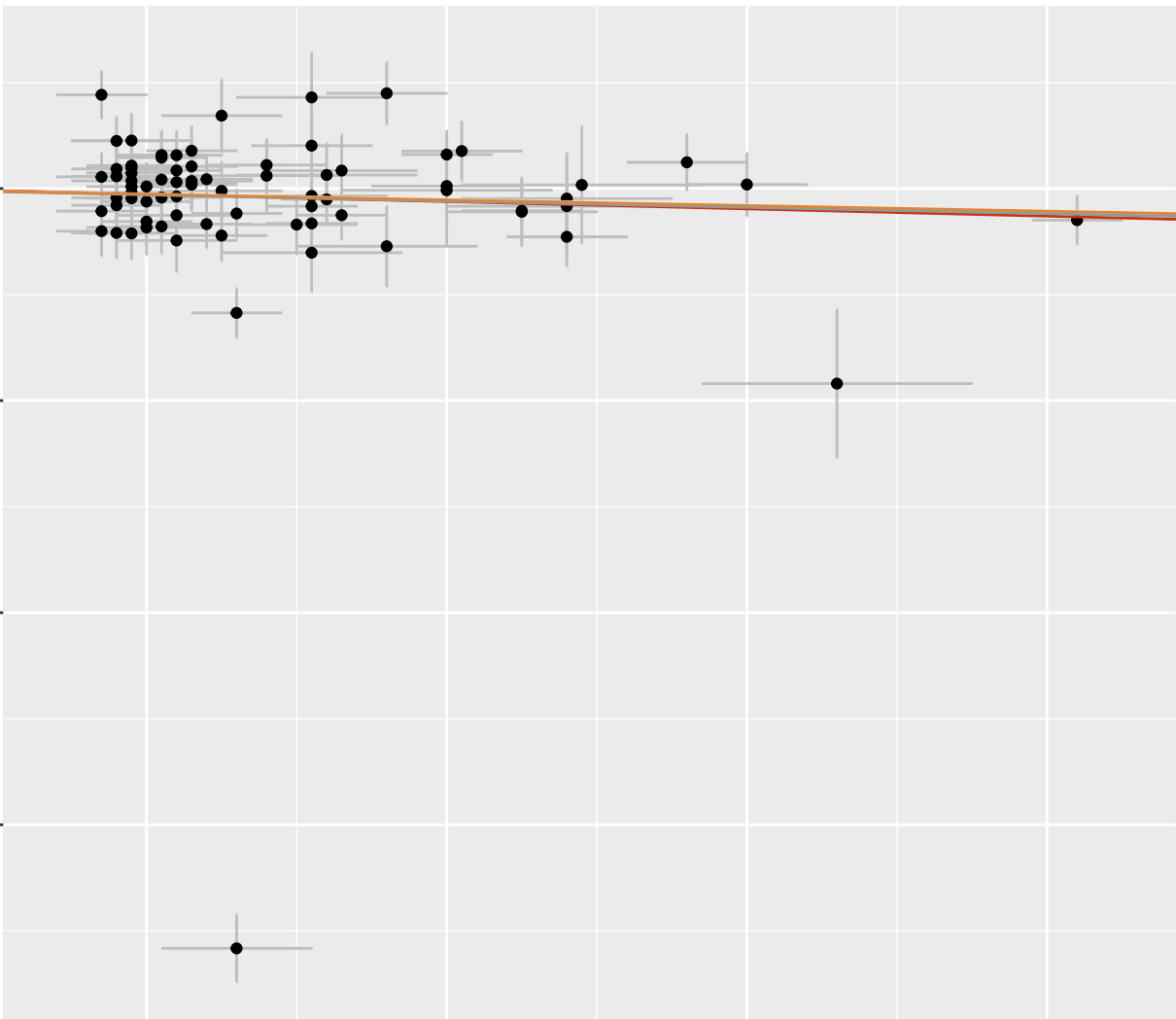
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test



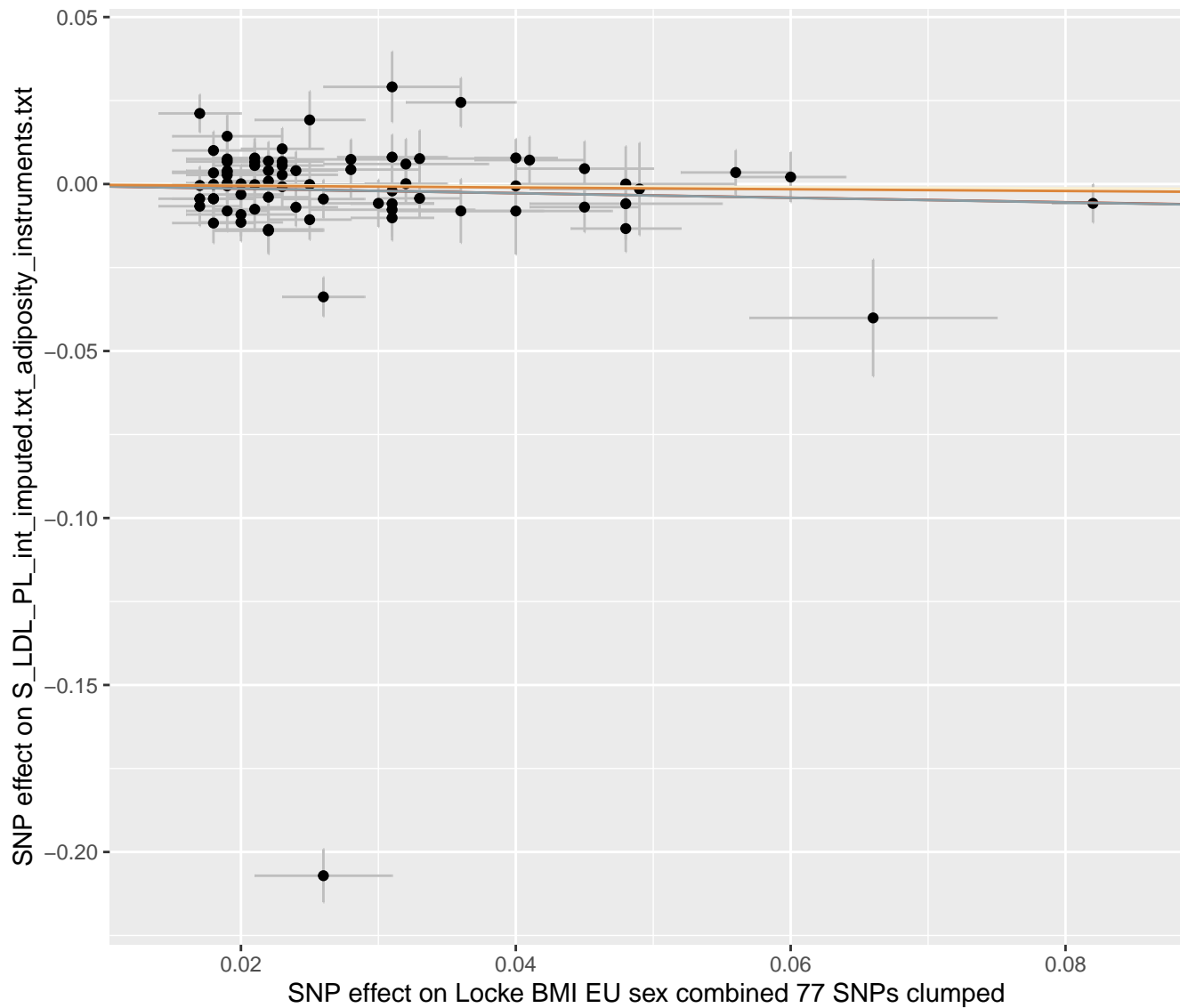
Inverse variance weighted (multiplicative random effects)

MR Egger



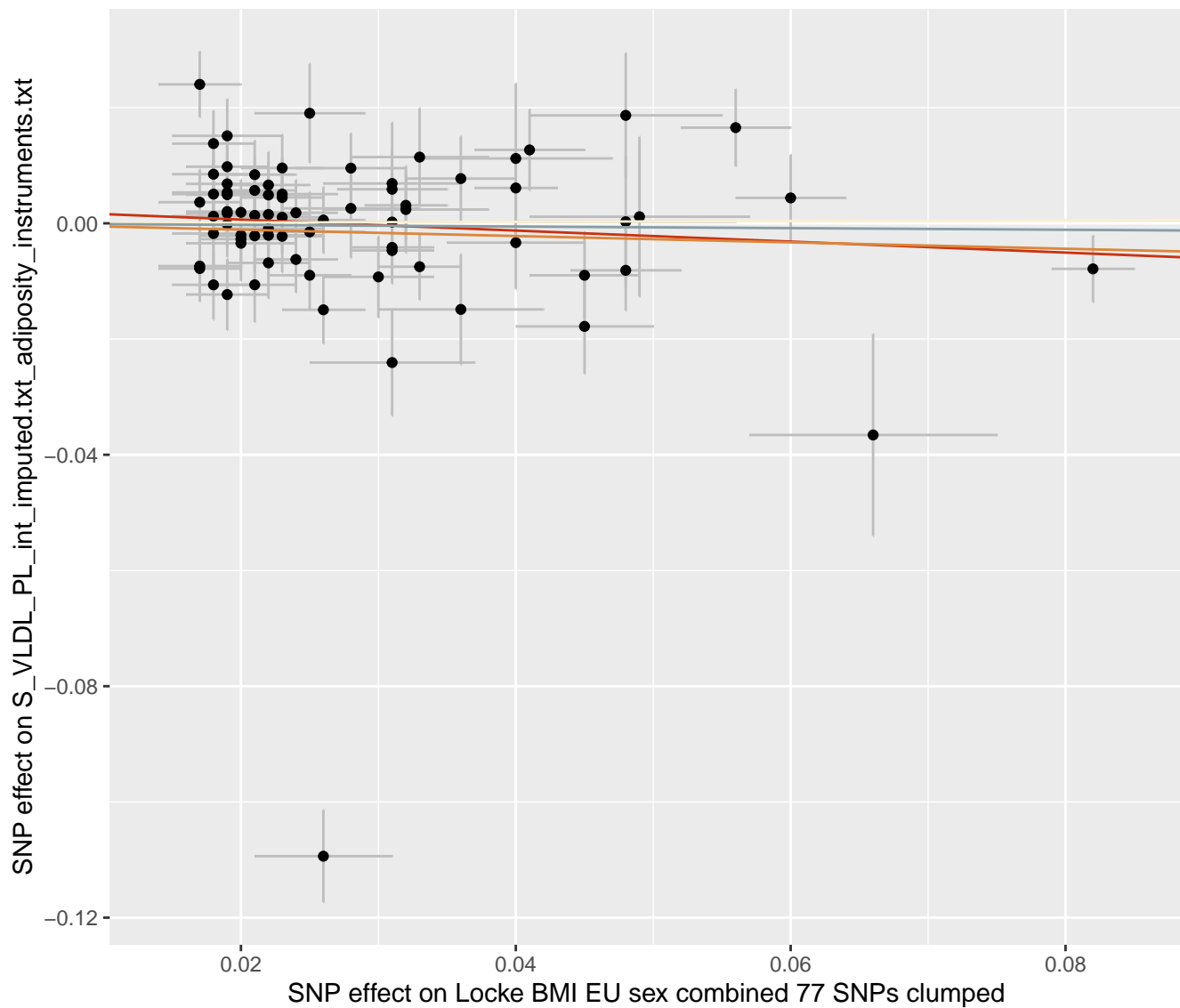
Weighted median

Weighted mode



# MR Test

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



# MR Test



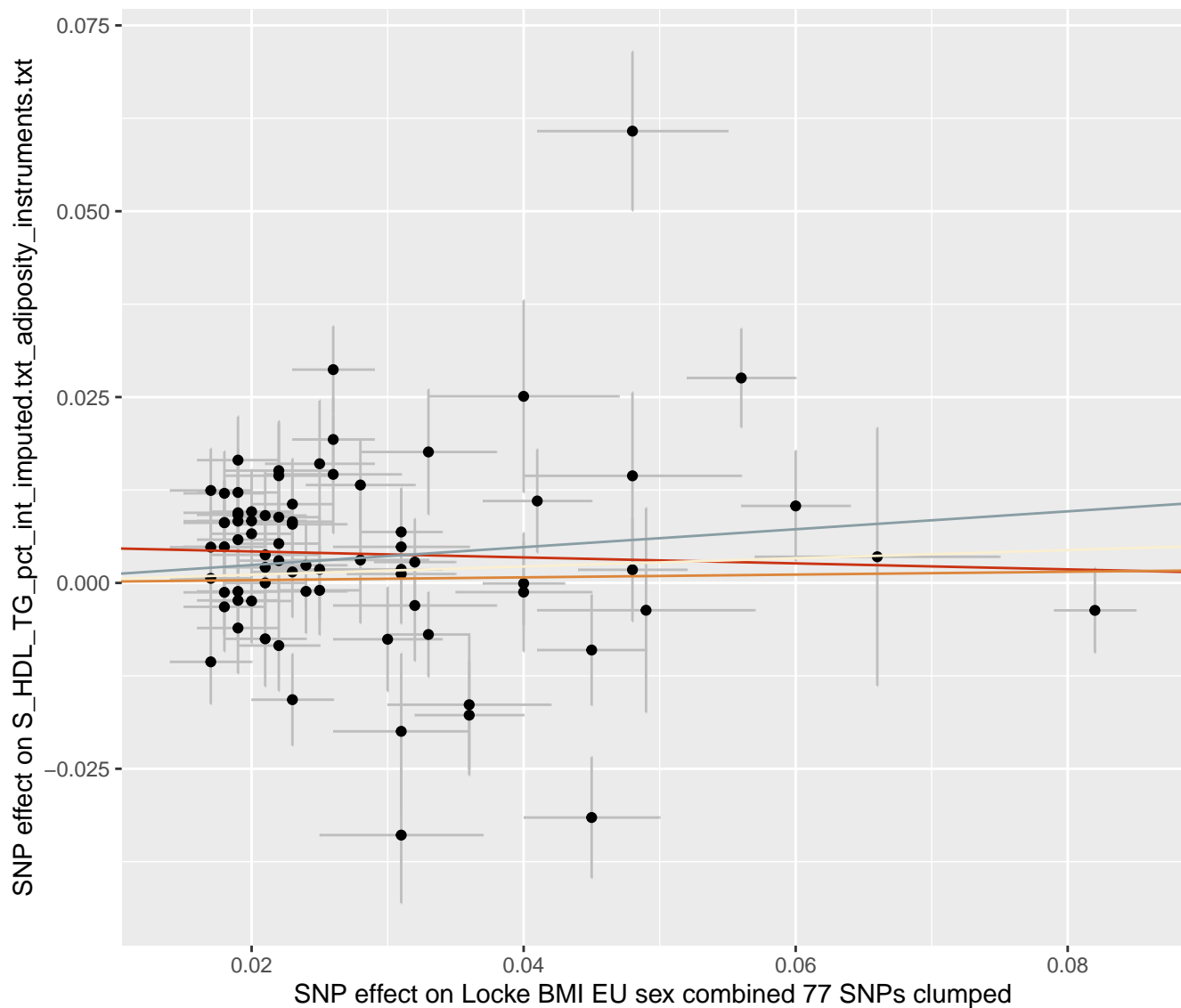
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.02

0.00

-0.02

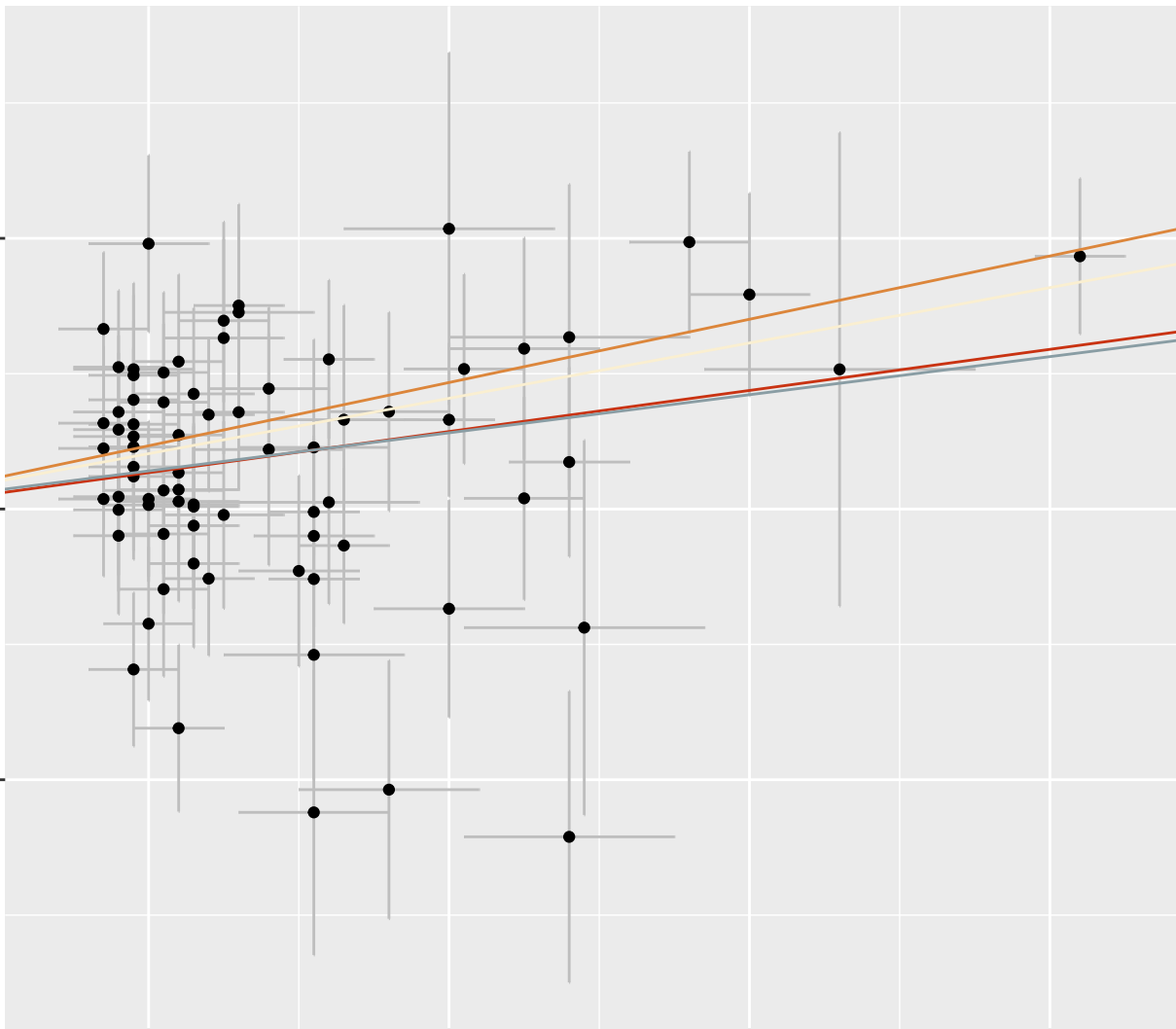
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



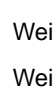


# MR Test



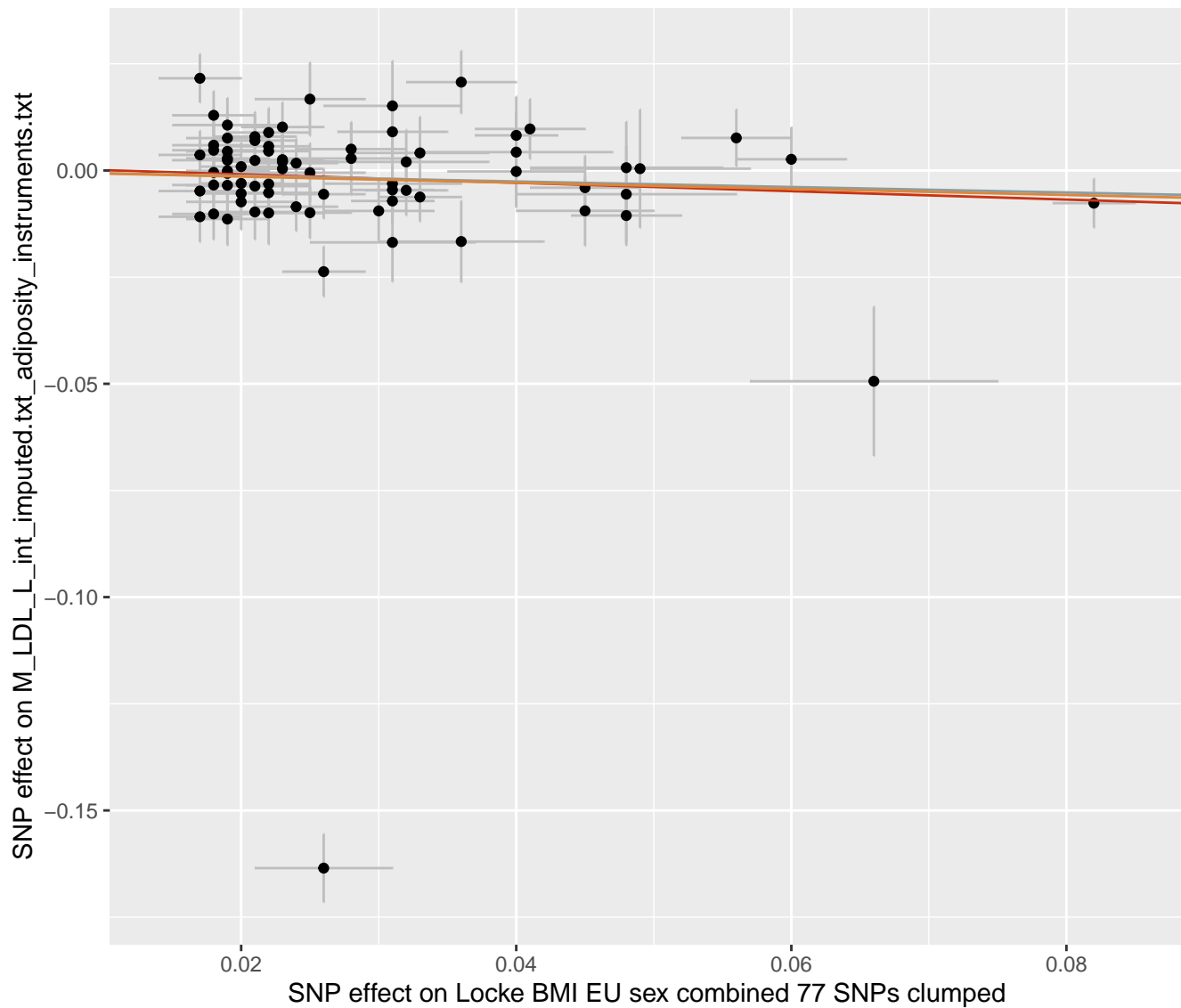
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test

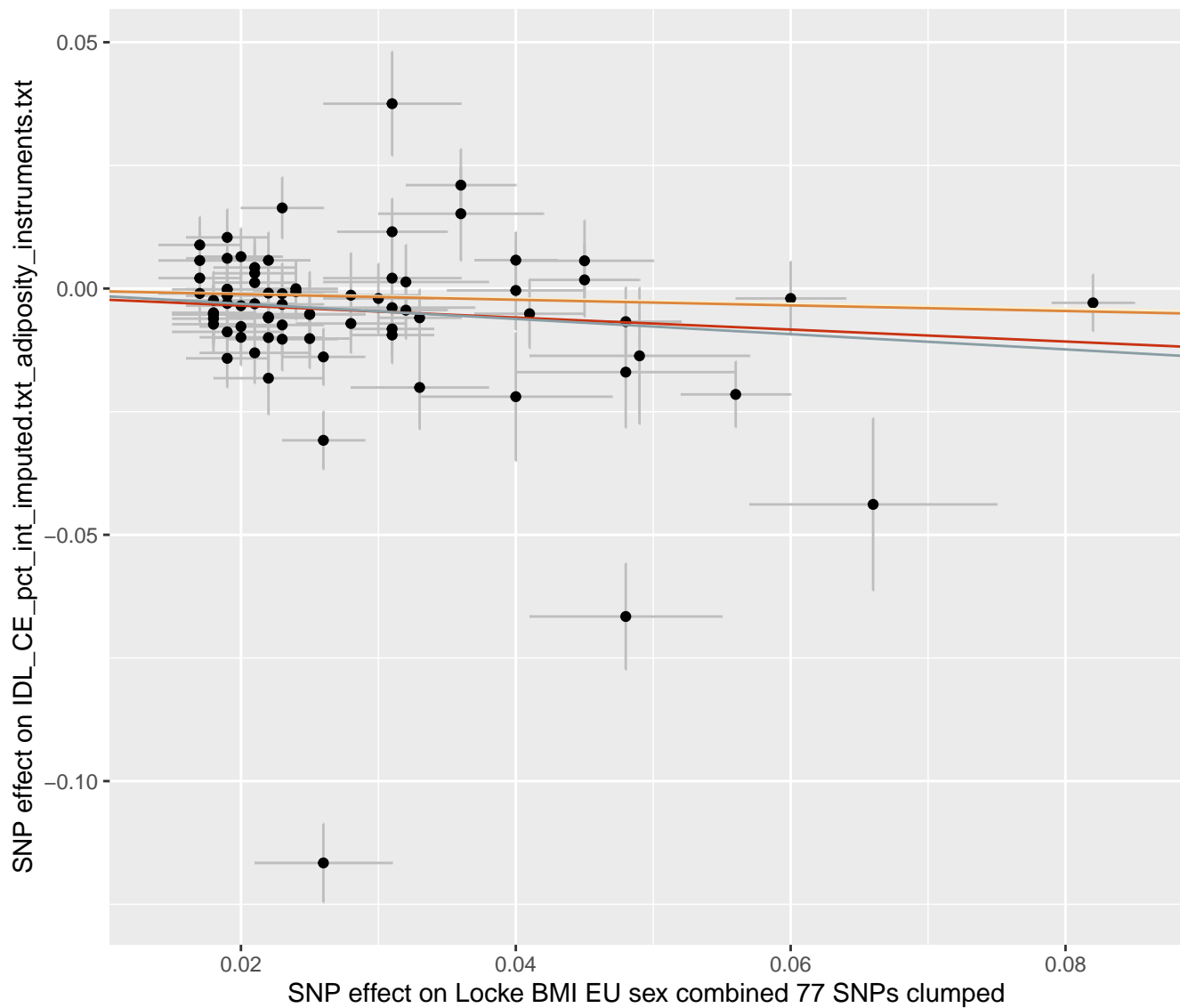


Inverse variance weighted (multiplicative random effects)

MR Egger

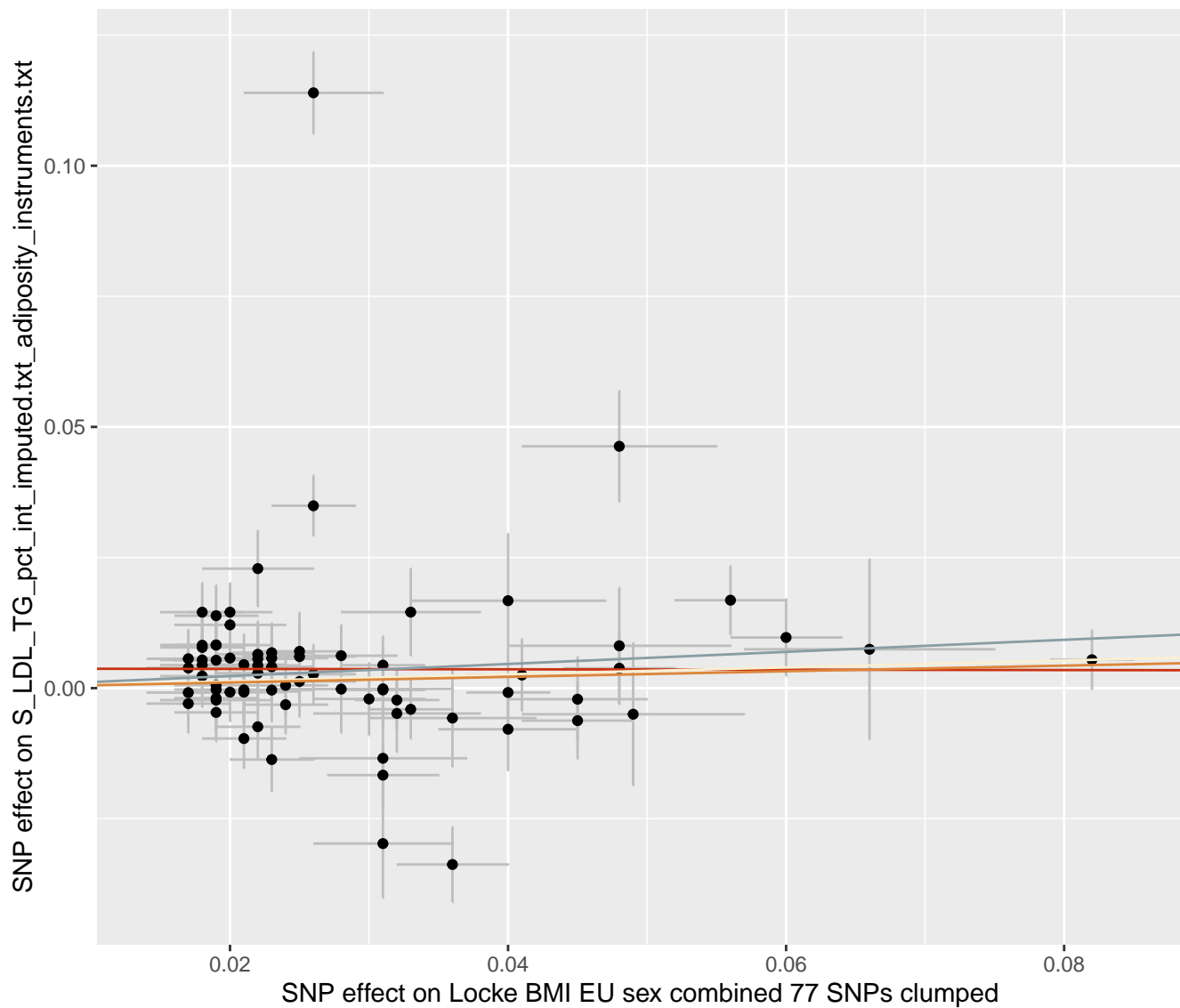
Weighted median

Weighted mode



# MR Test

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



# MR Test



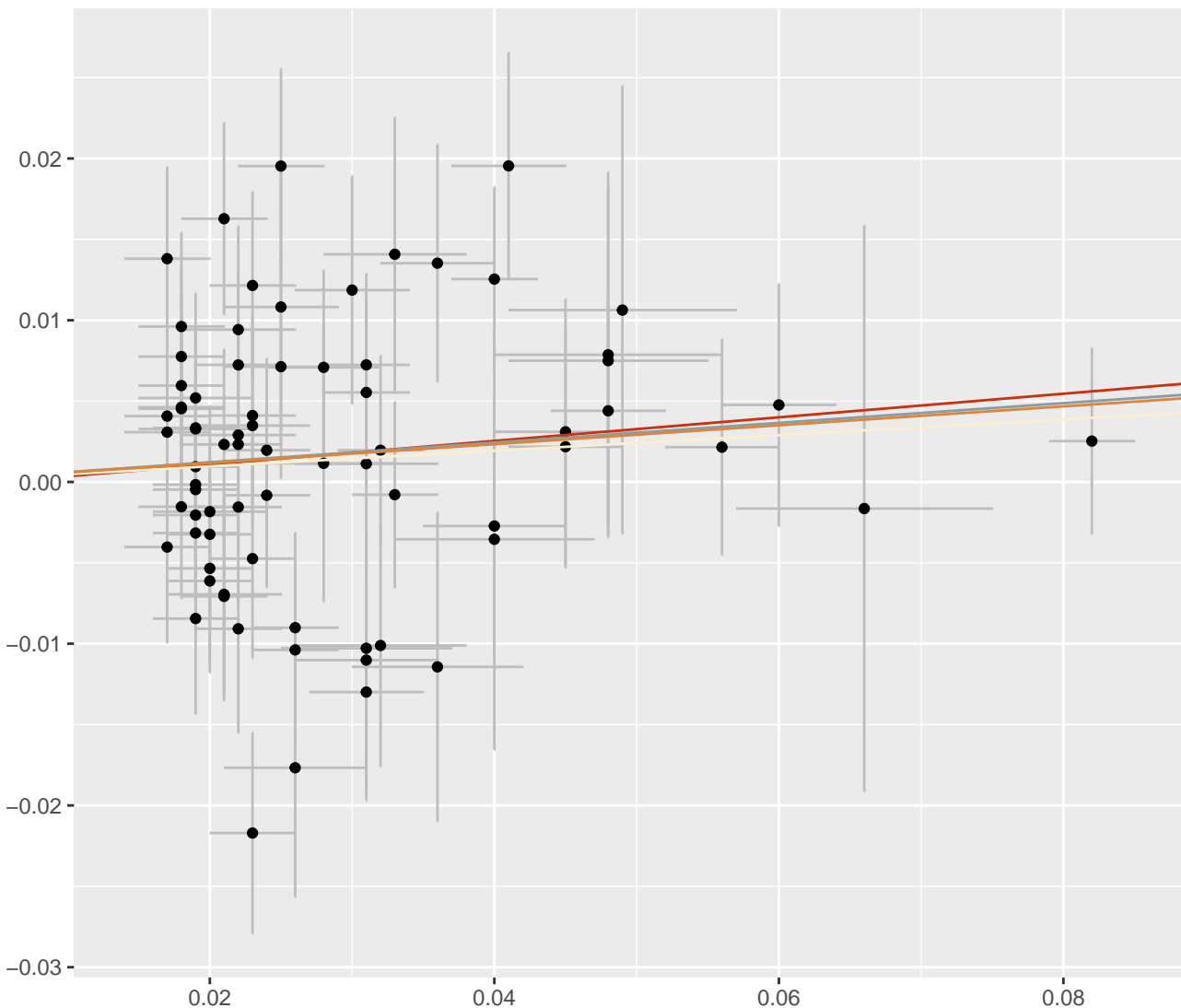
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

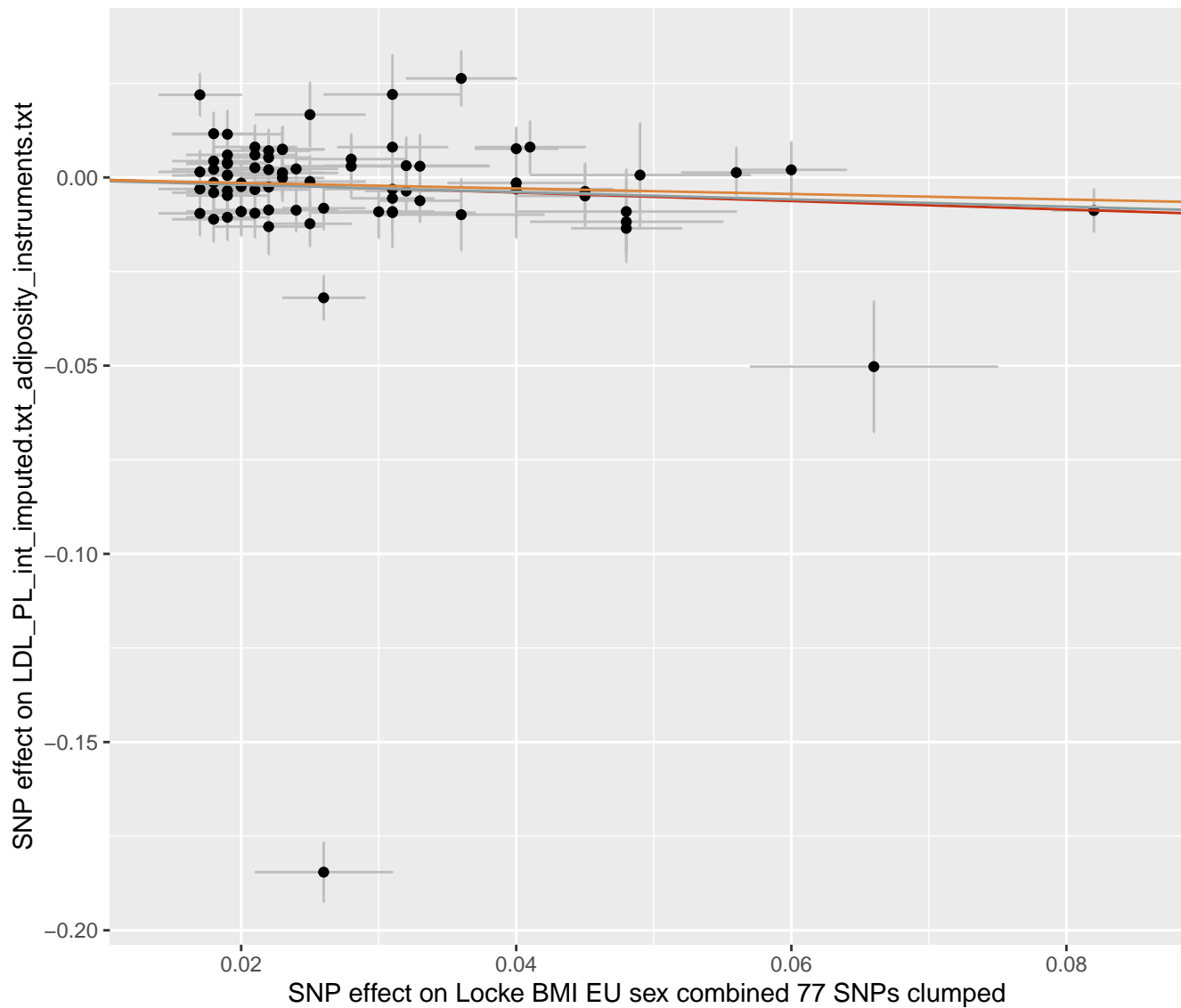
Weighted mode

SNP effect on Glucose\_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 Omega\_3\_int\_imputed.txt adiposity\_instruments.txt

0.02

0.00

-0.02

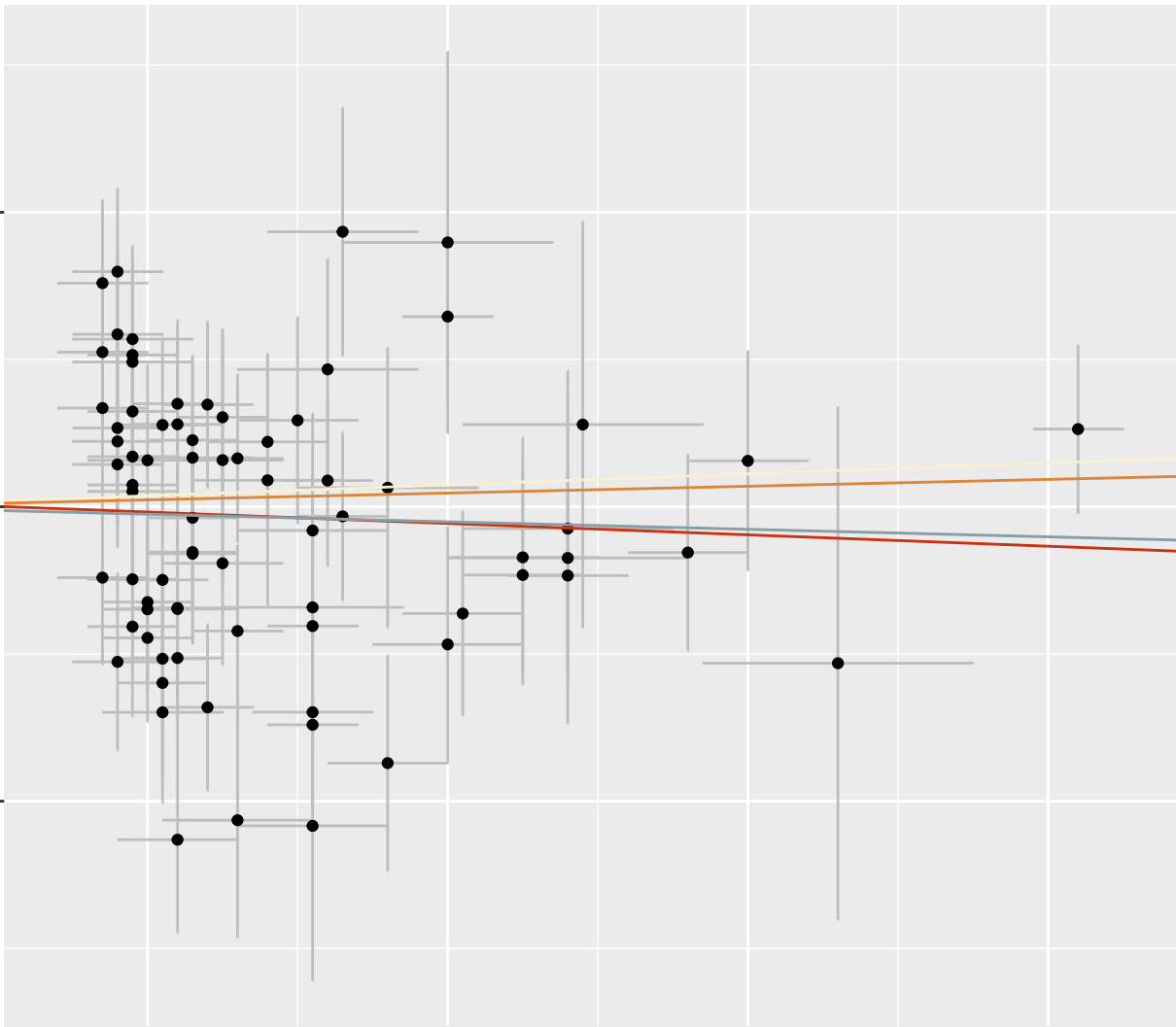
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test

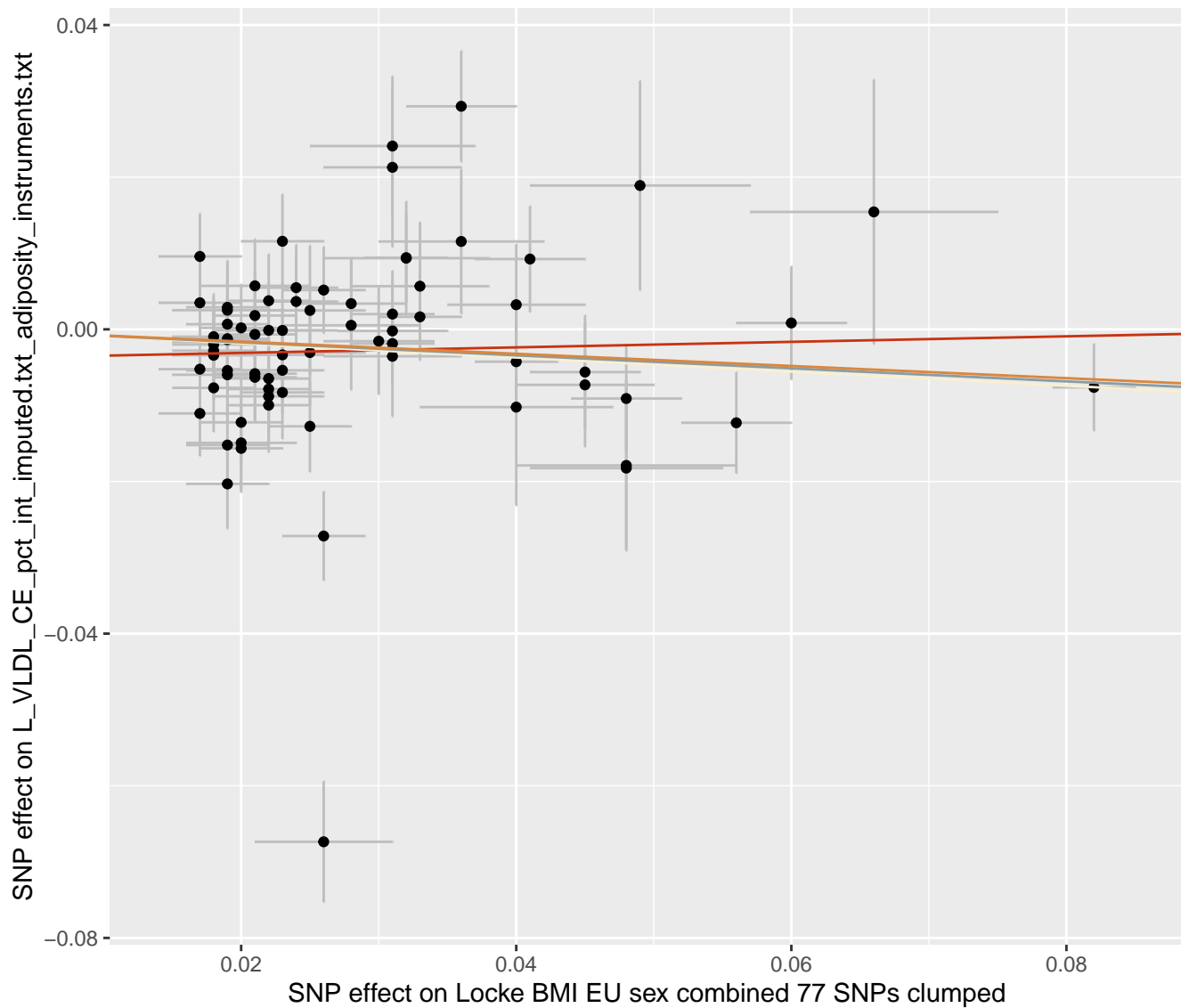


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test



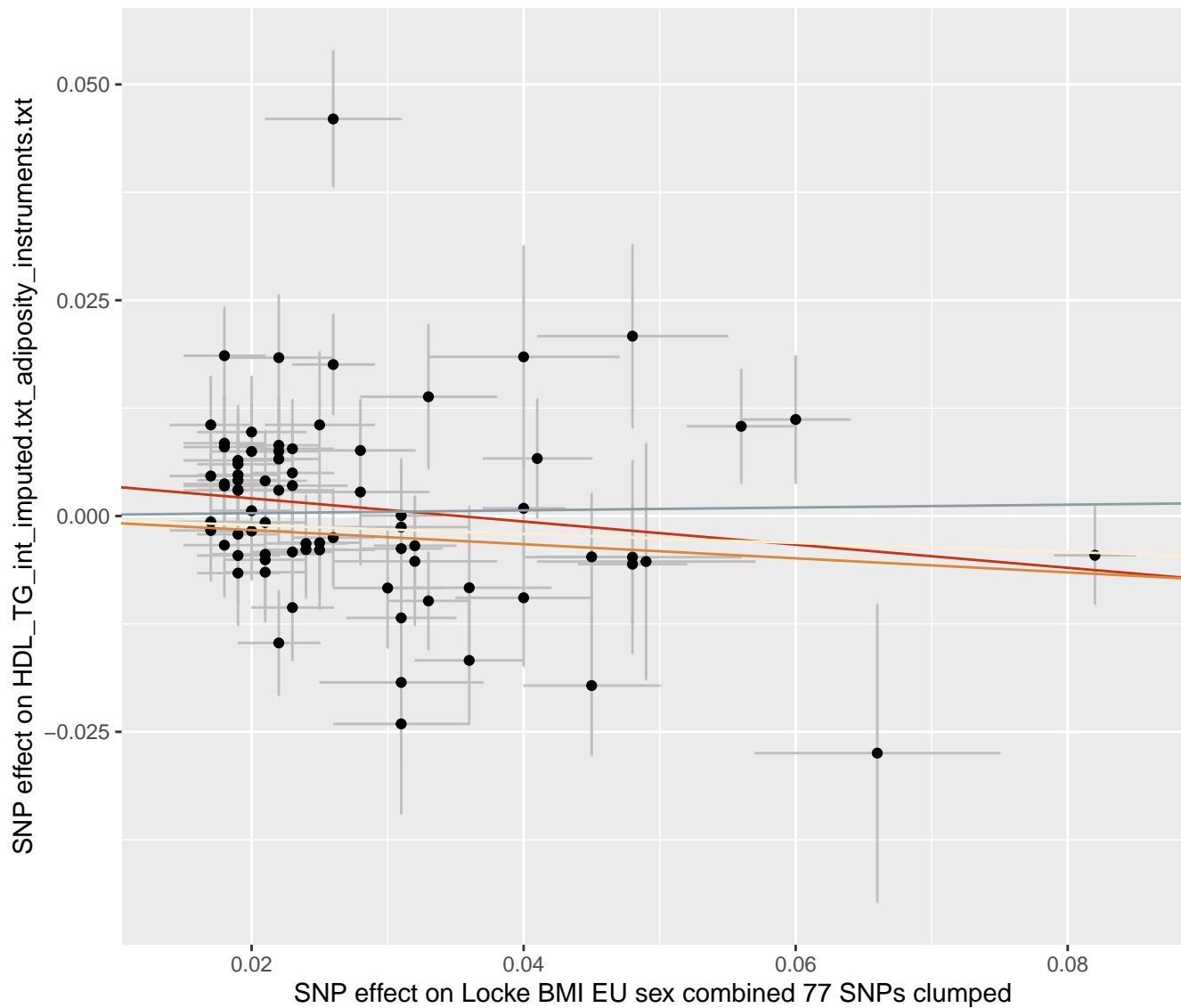
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

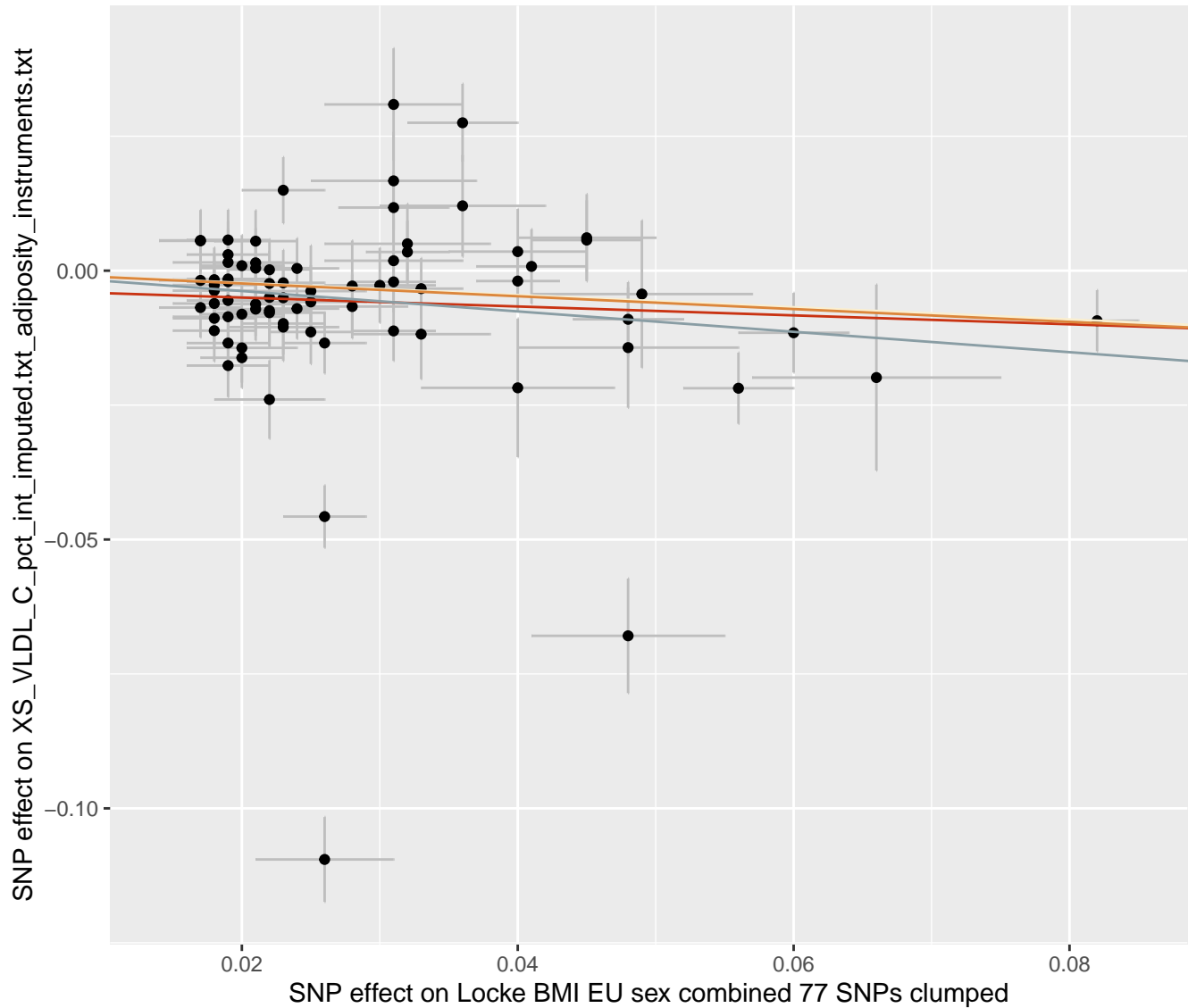
Weighted mode





# MR Test

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



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode

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

-0.050

-0.025

0.000

0.025

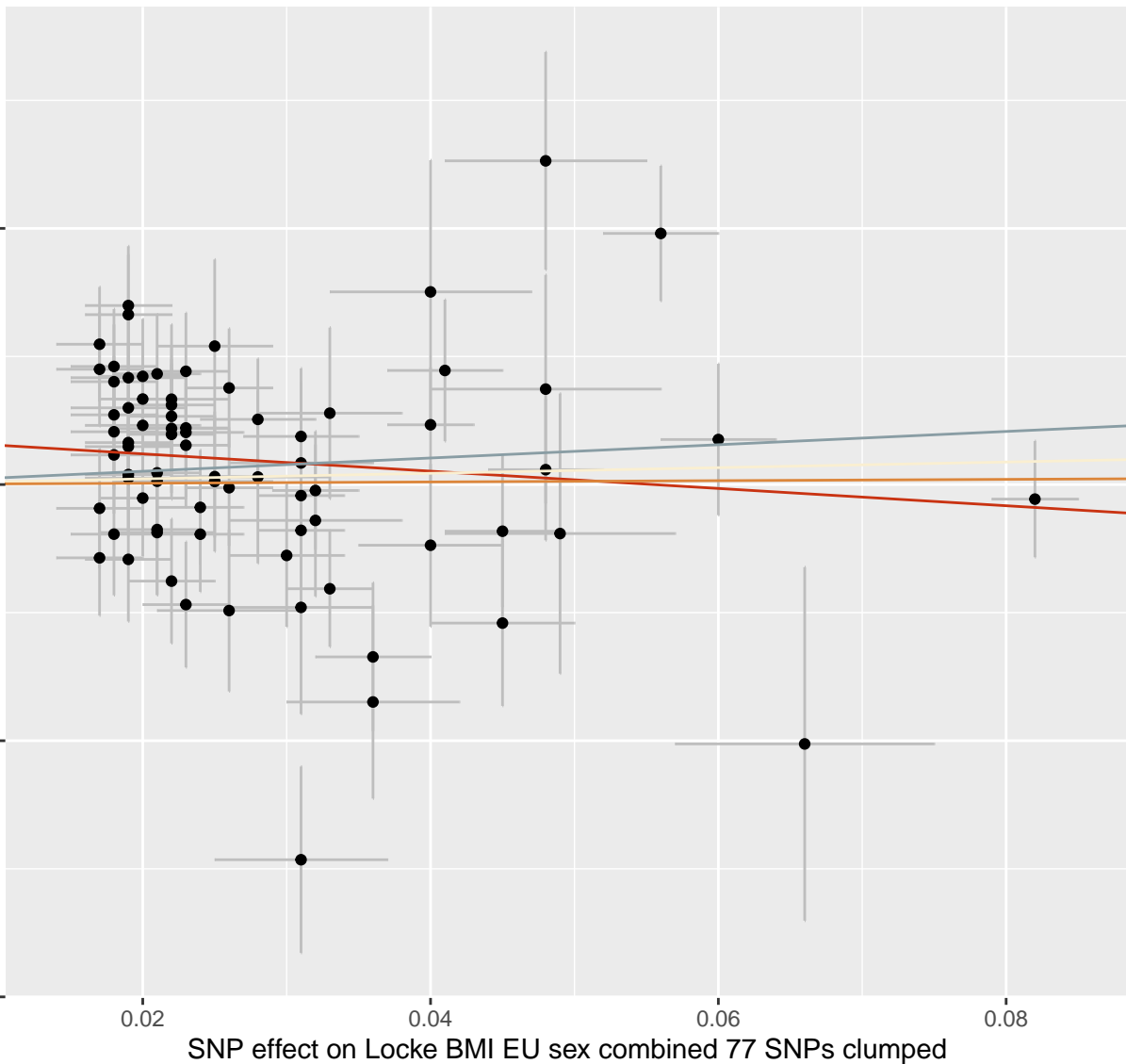
0.02

0.04

0.06

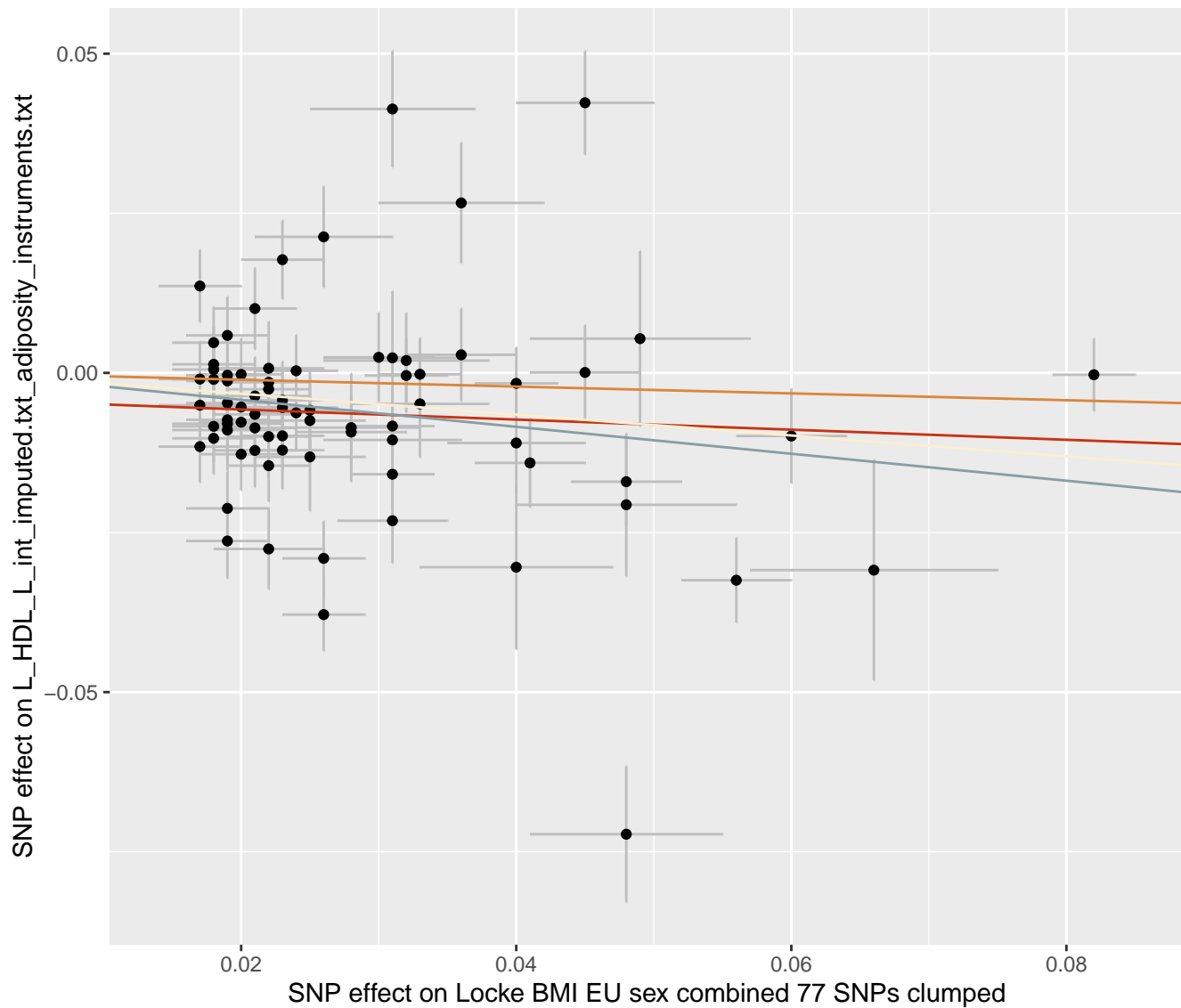
0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test

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



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.02  
0.00  
-0.02  
-0.04

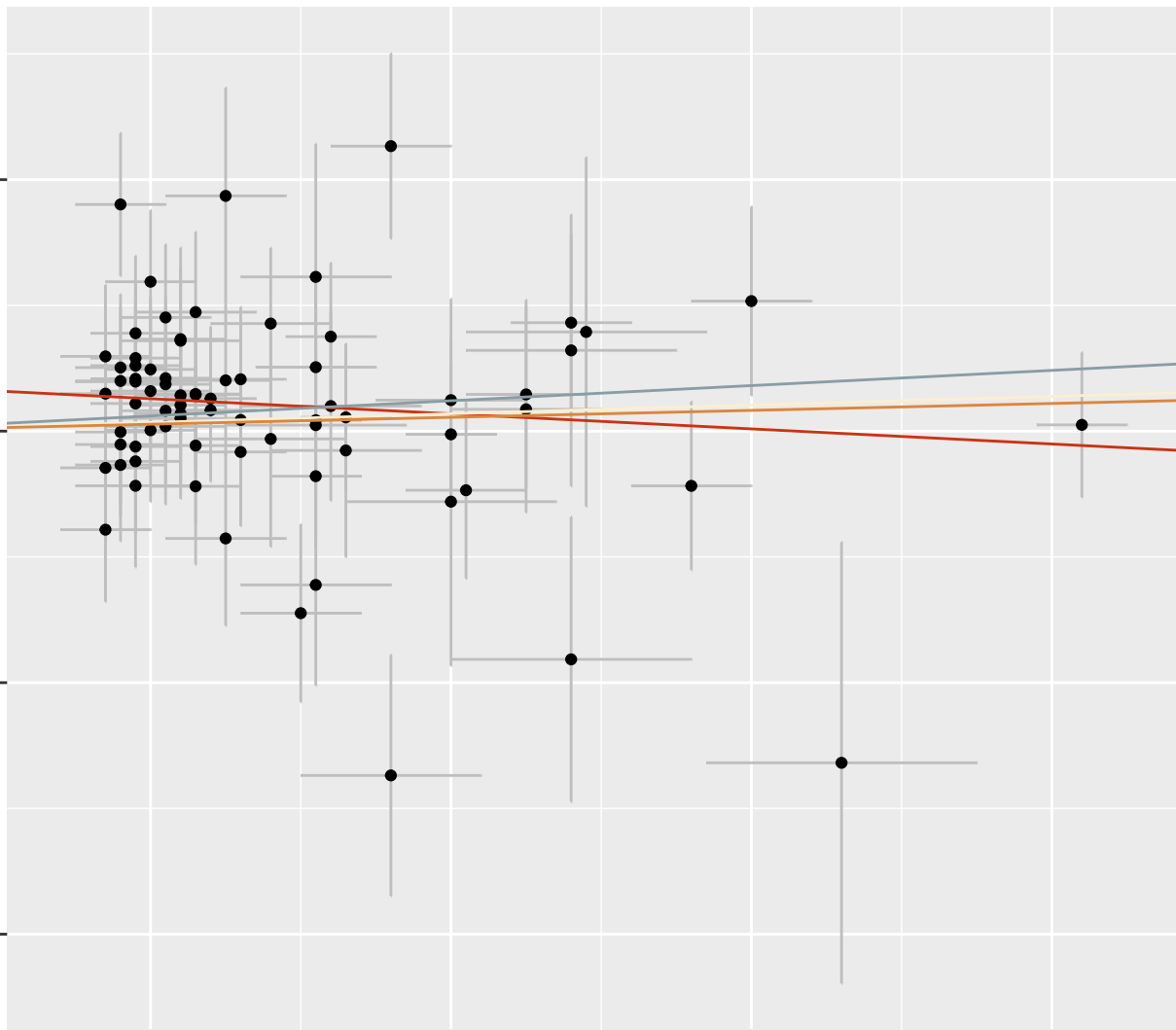
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test

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

SNP effect on XS\_VLDL\_L\_int\_imputed.txt adiposity\_instruments.txt

0.00

-0.05

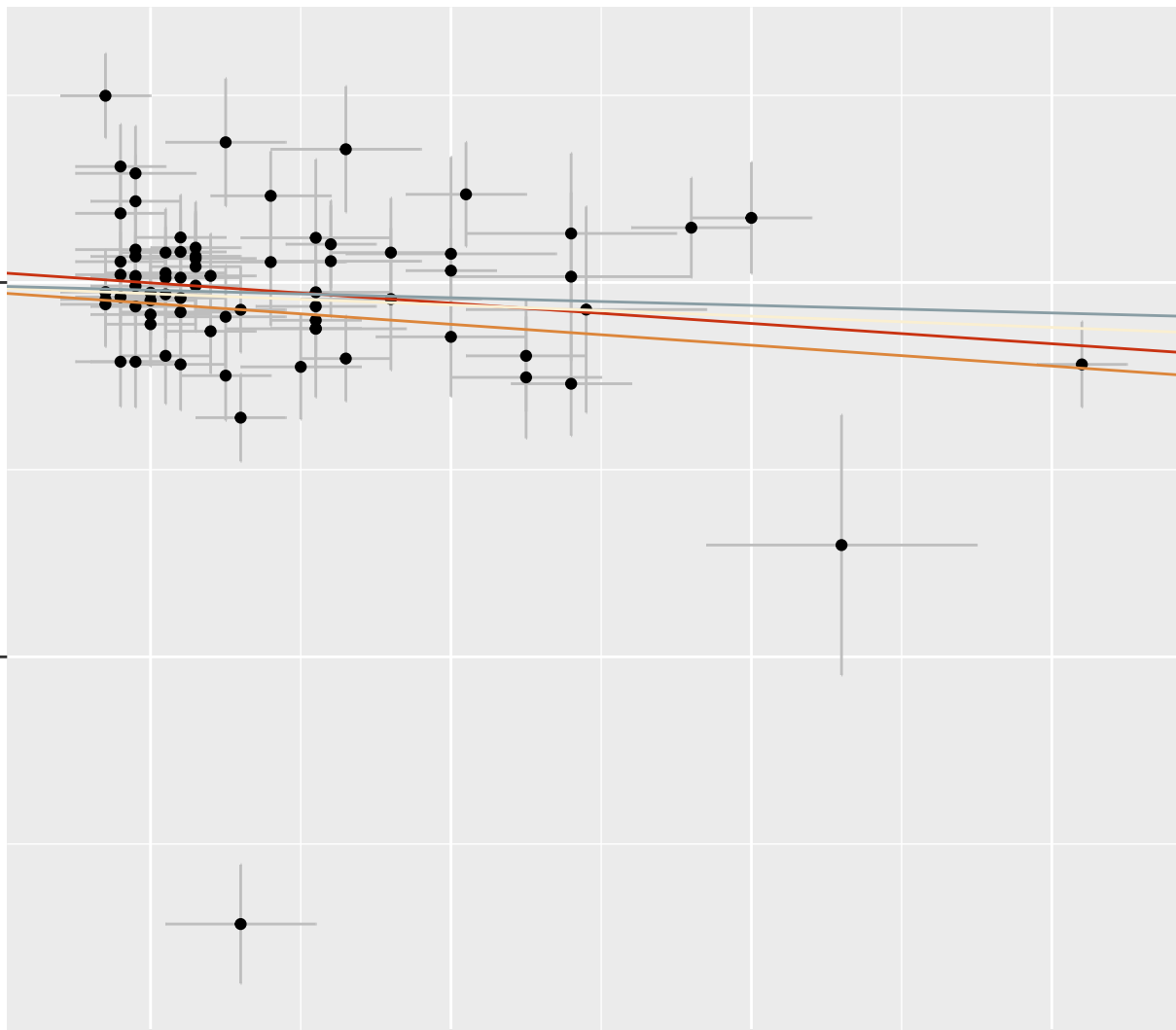
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test

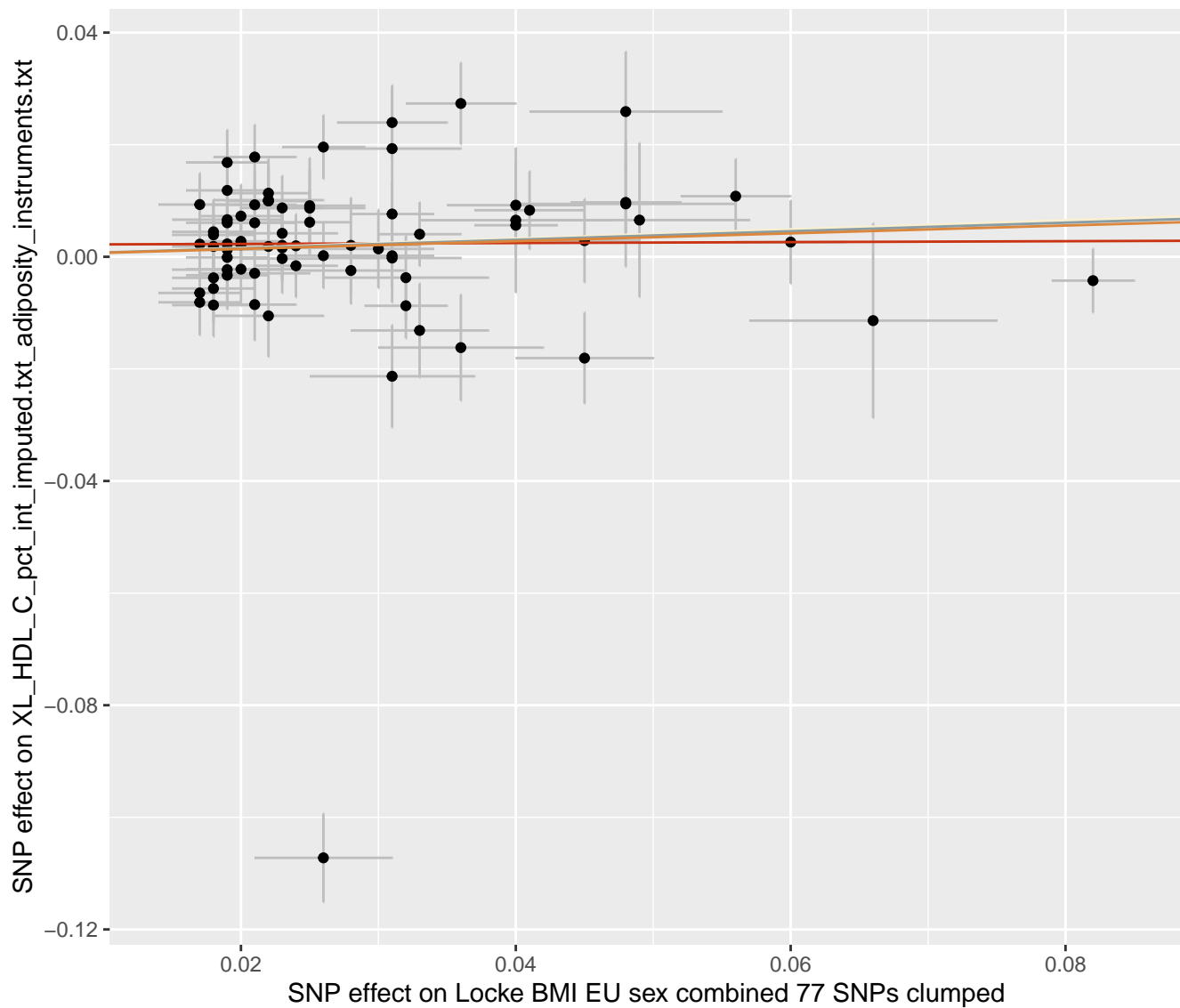


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test



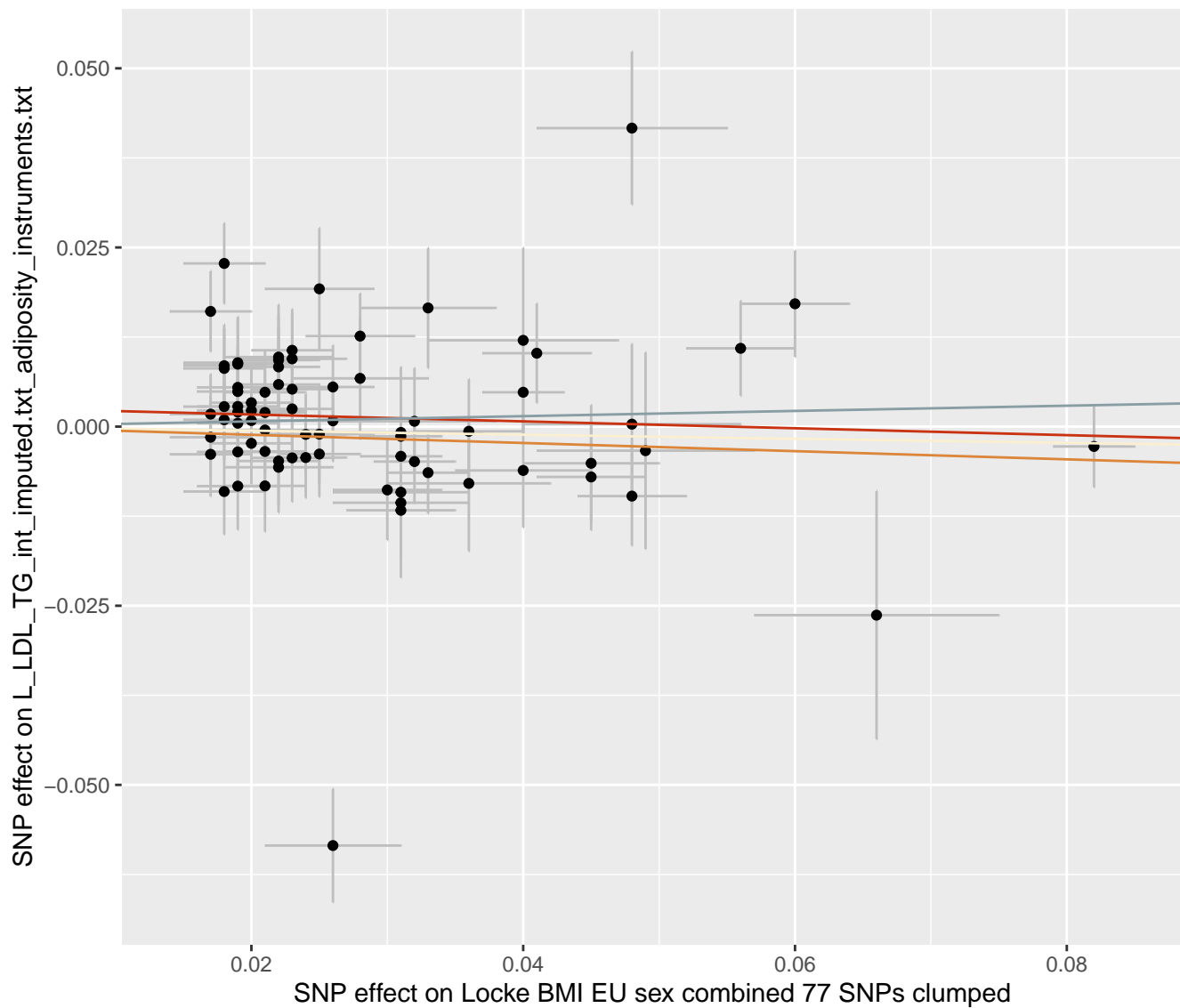
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test

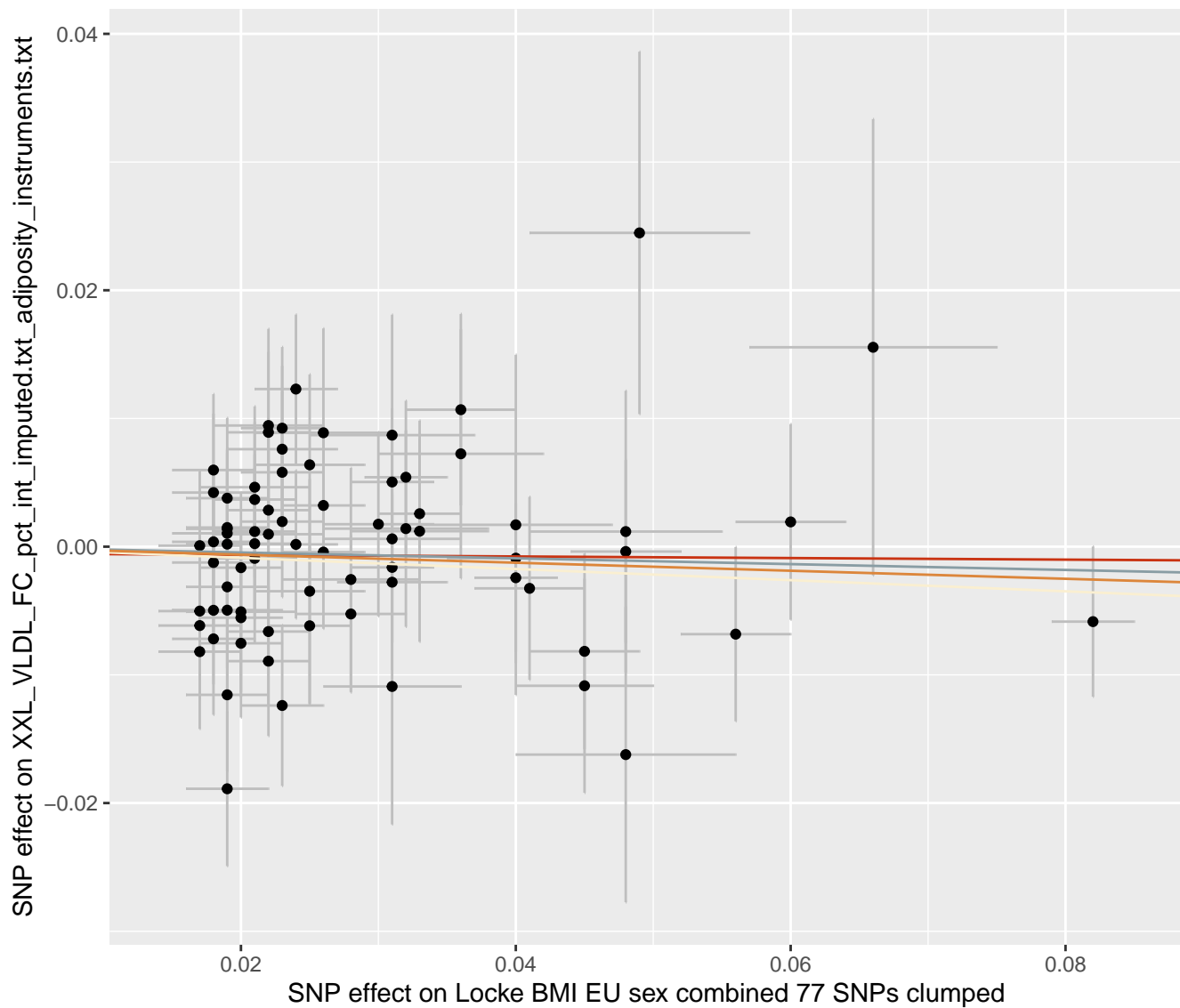


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

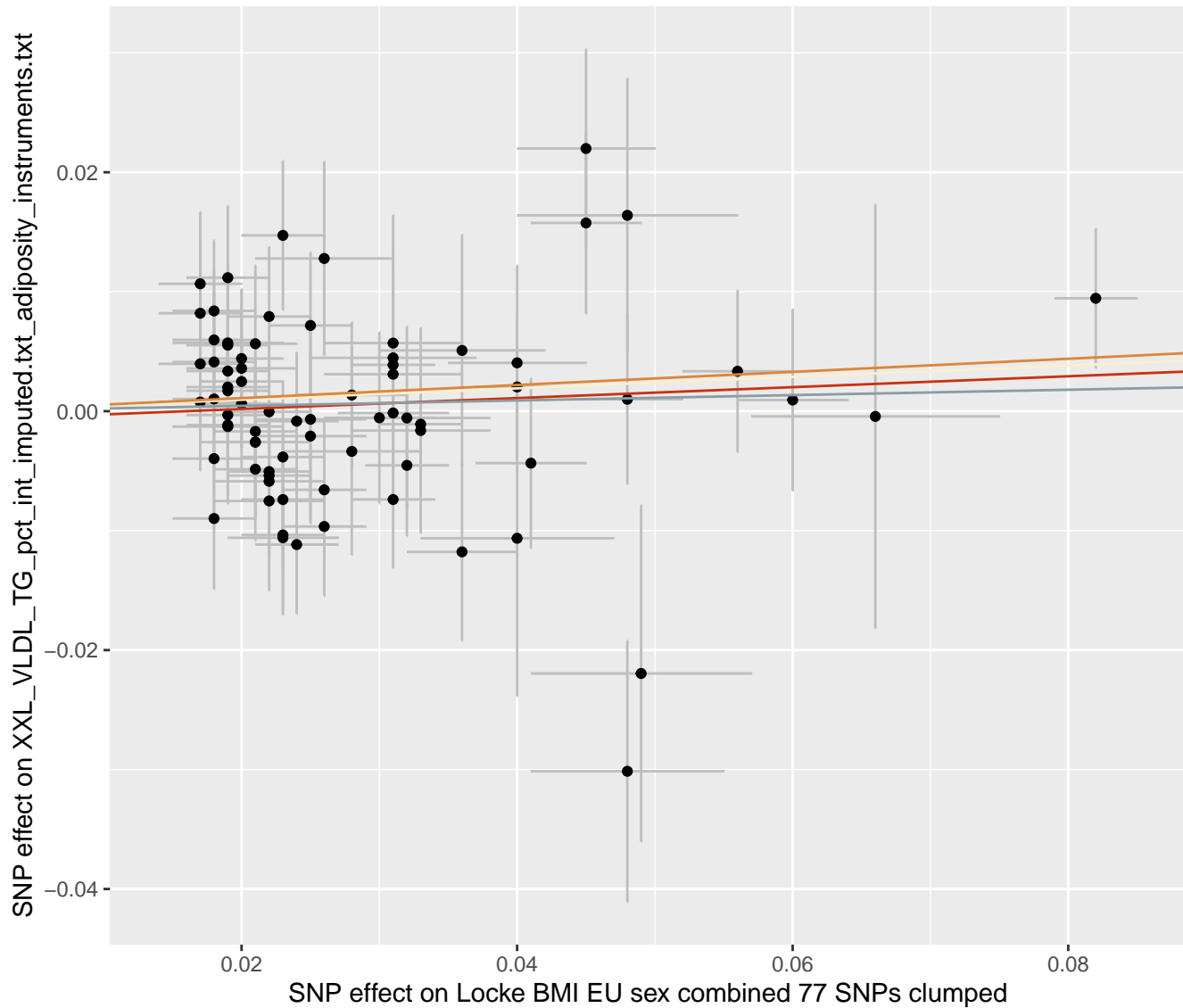
Weighted mode





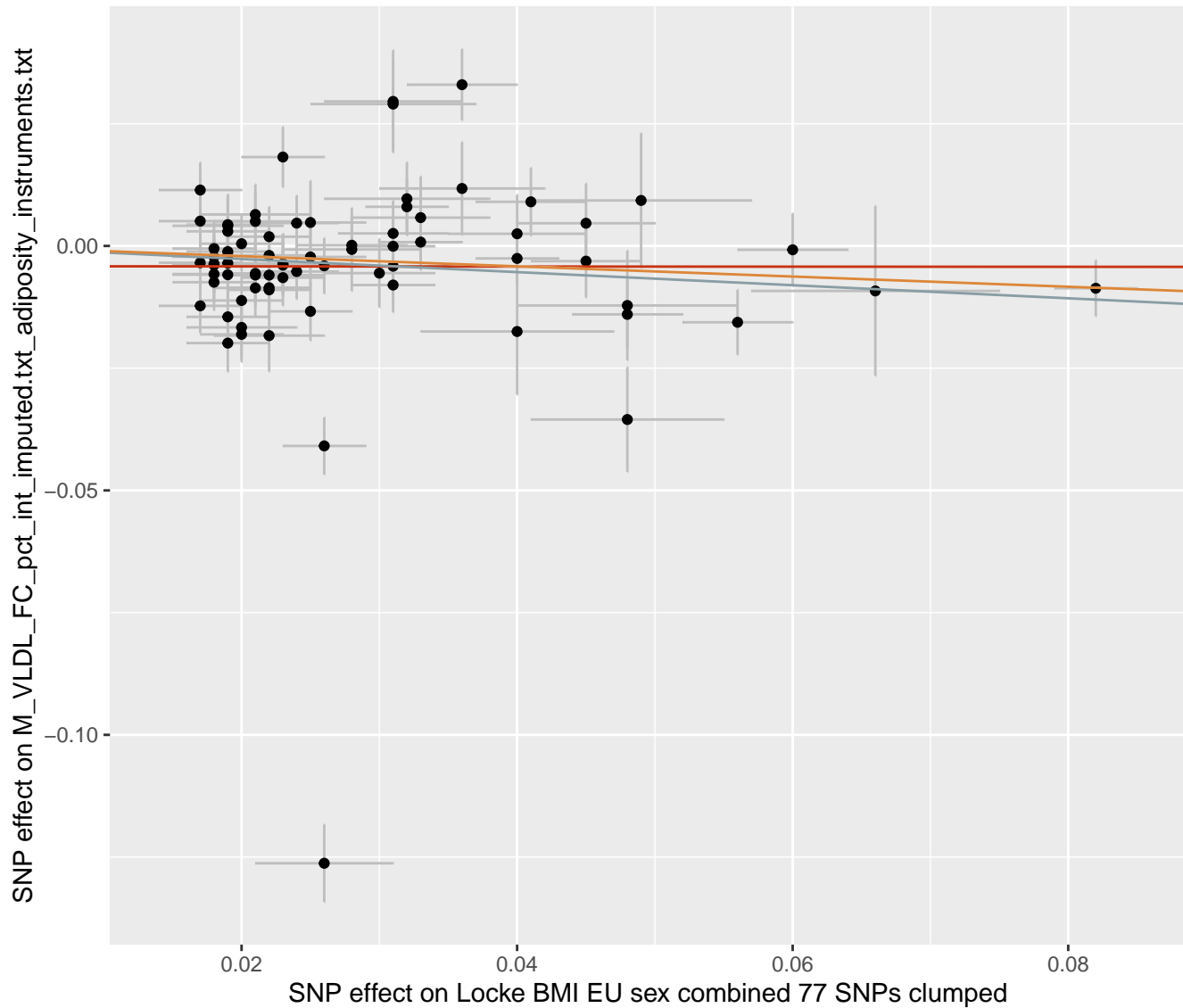
# MR Test

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



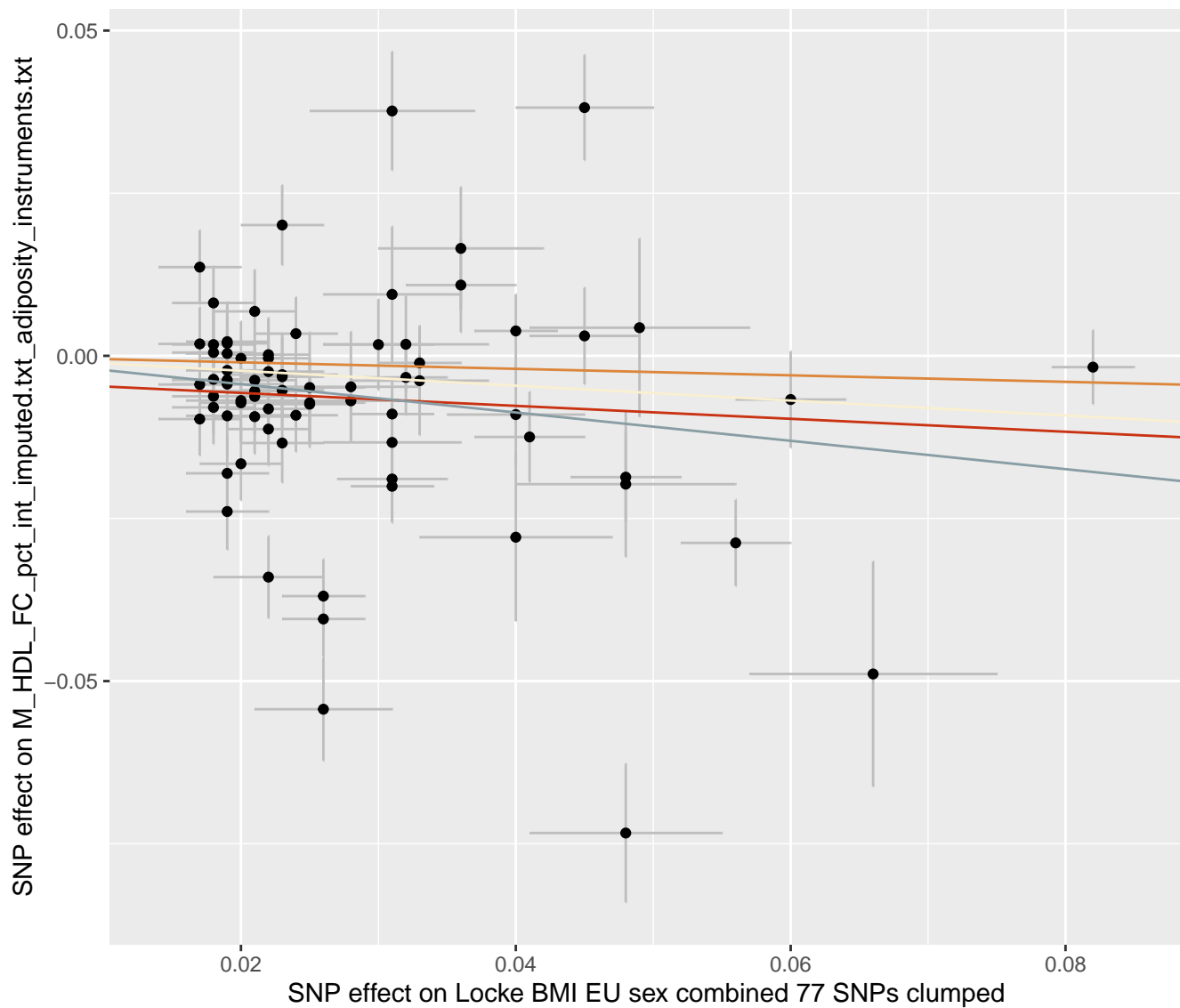
# MR Test

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



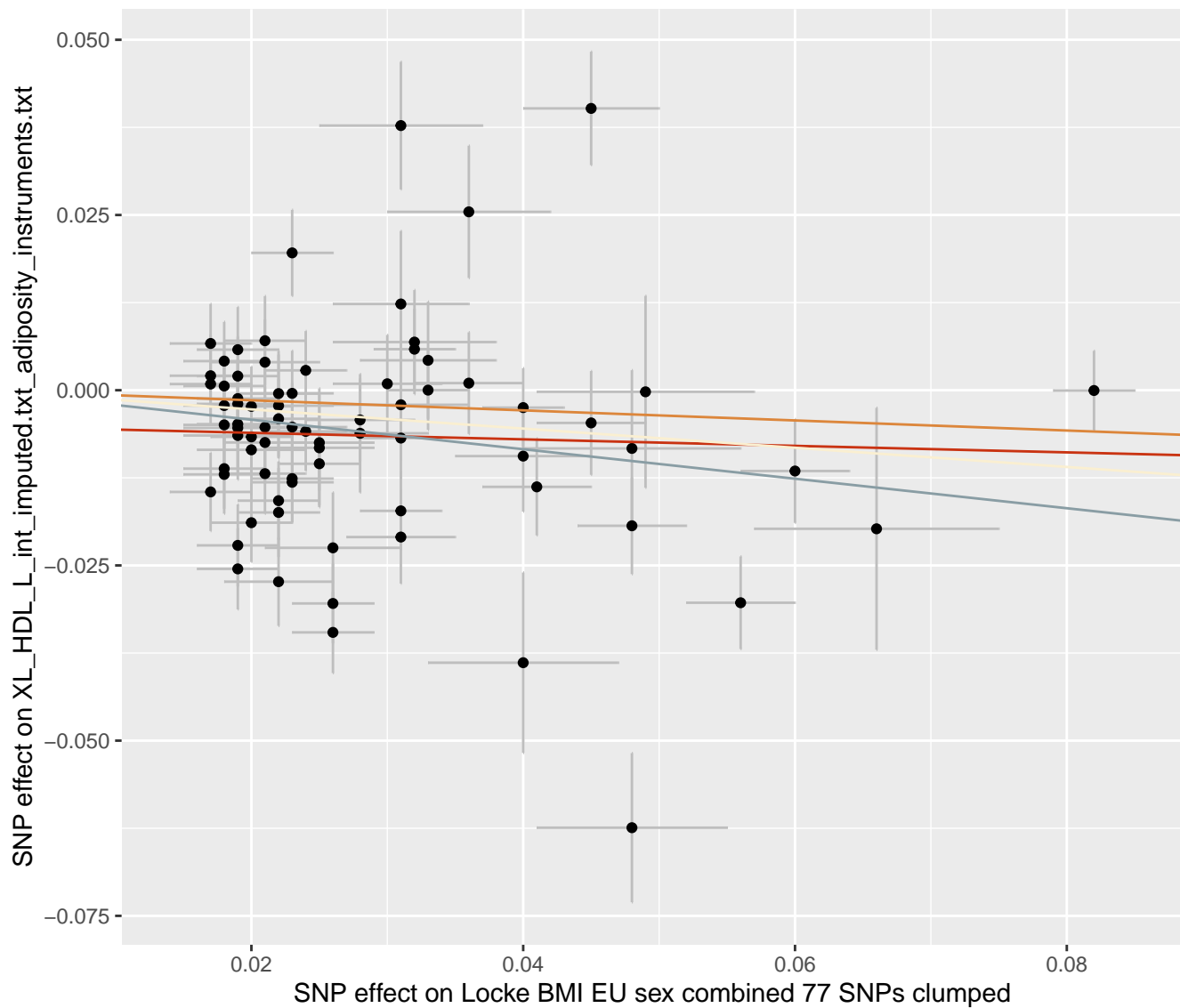
# MR Test

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



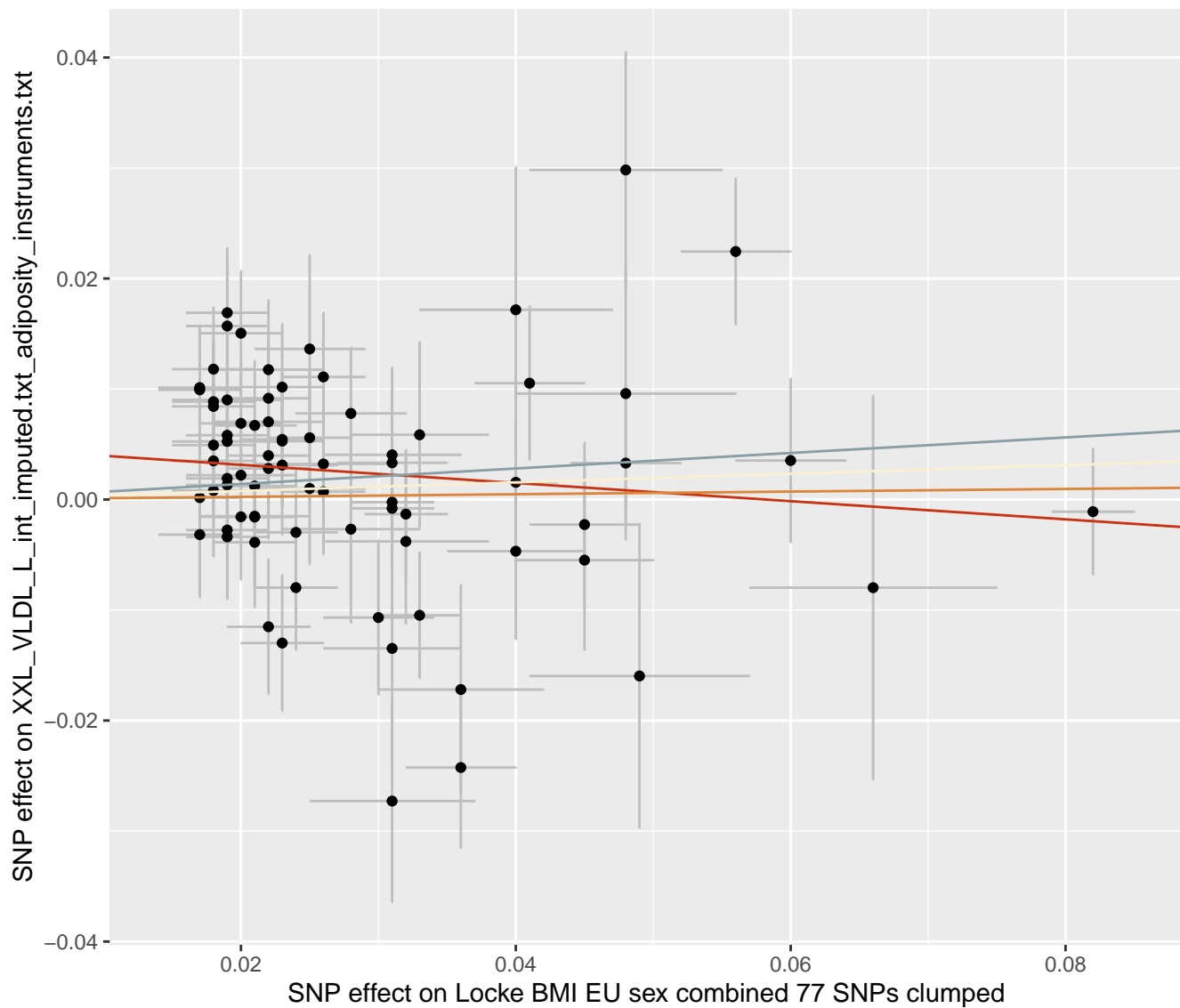
# MR Test

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



# MR Test

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



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.04

0.00

-0.04

-0.08

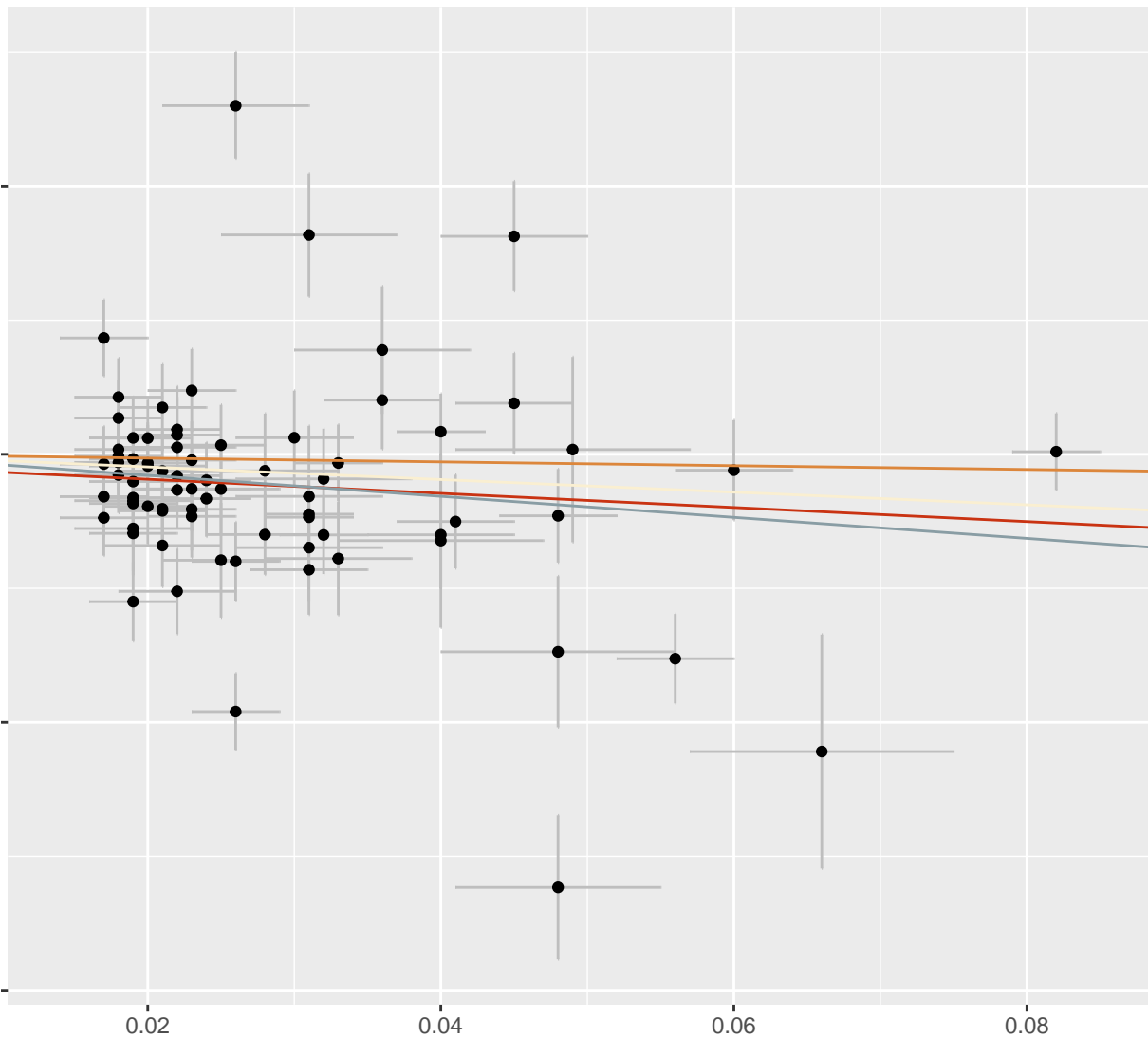
0.02

0.04

0.06

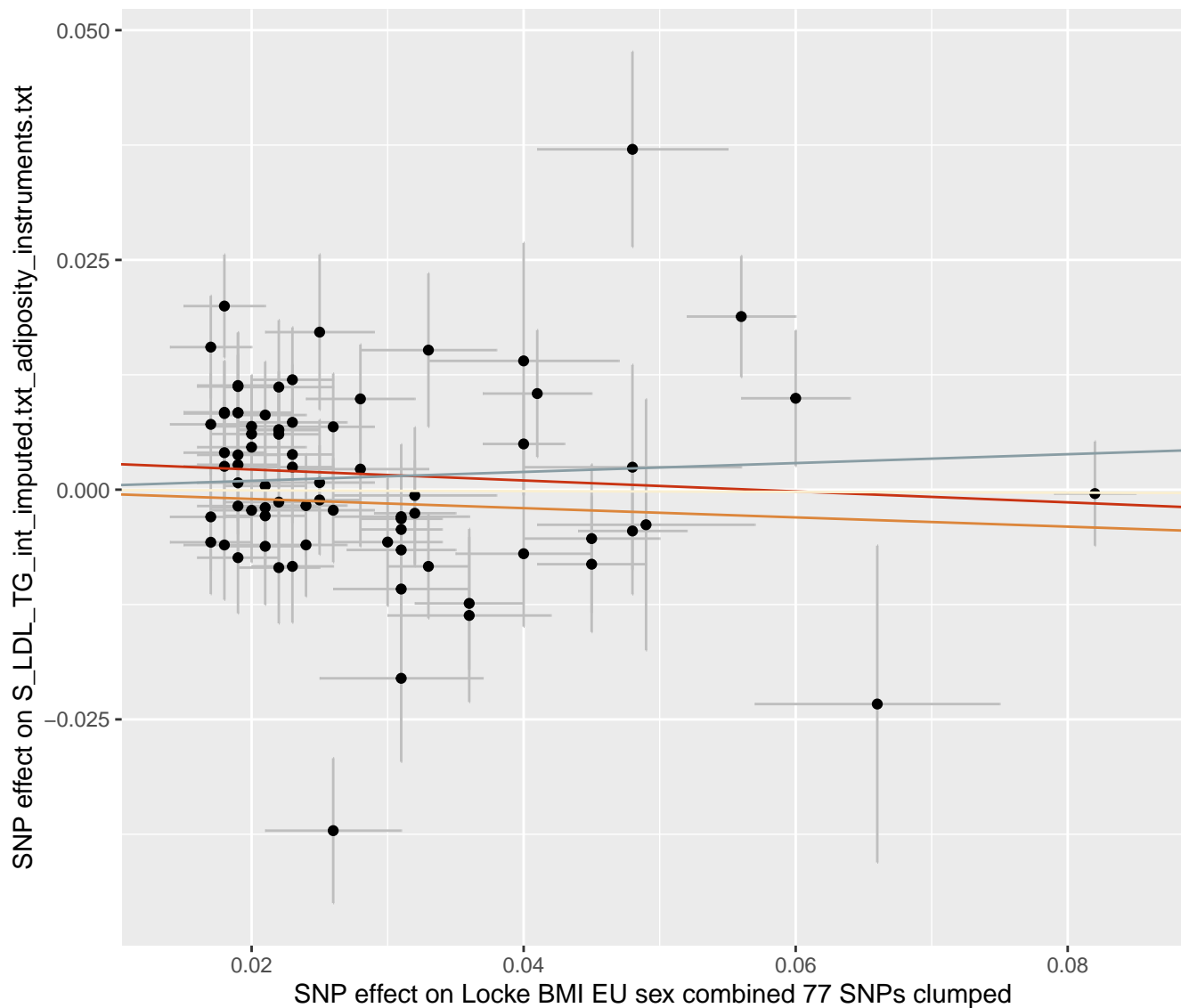
0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



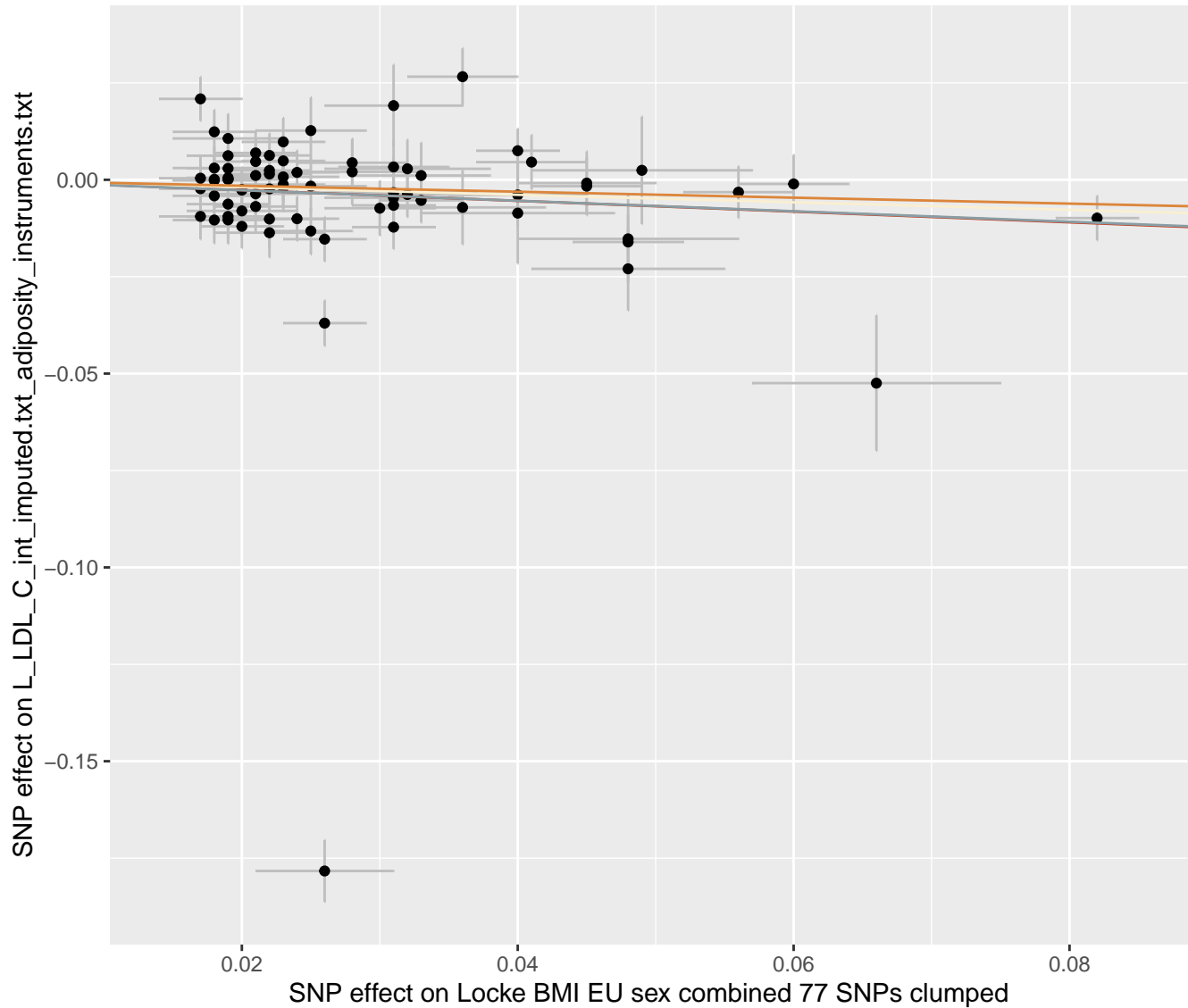
# MR Test

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



# MR Test

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





# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.025

0.000

-0.025

-0.050

-0.075

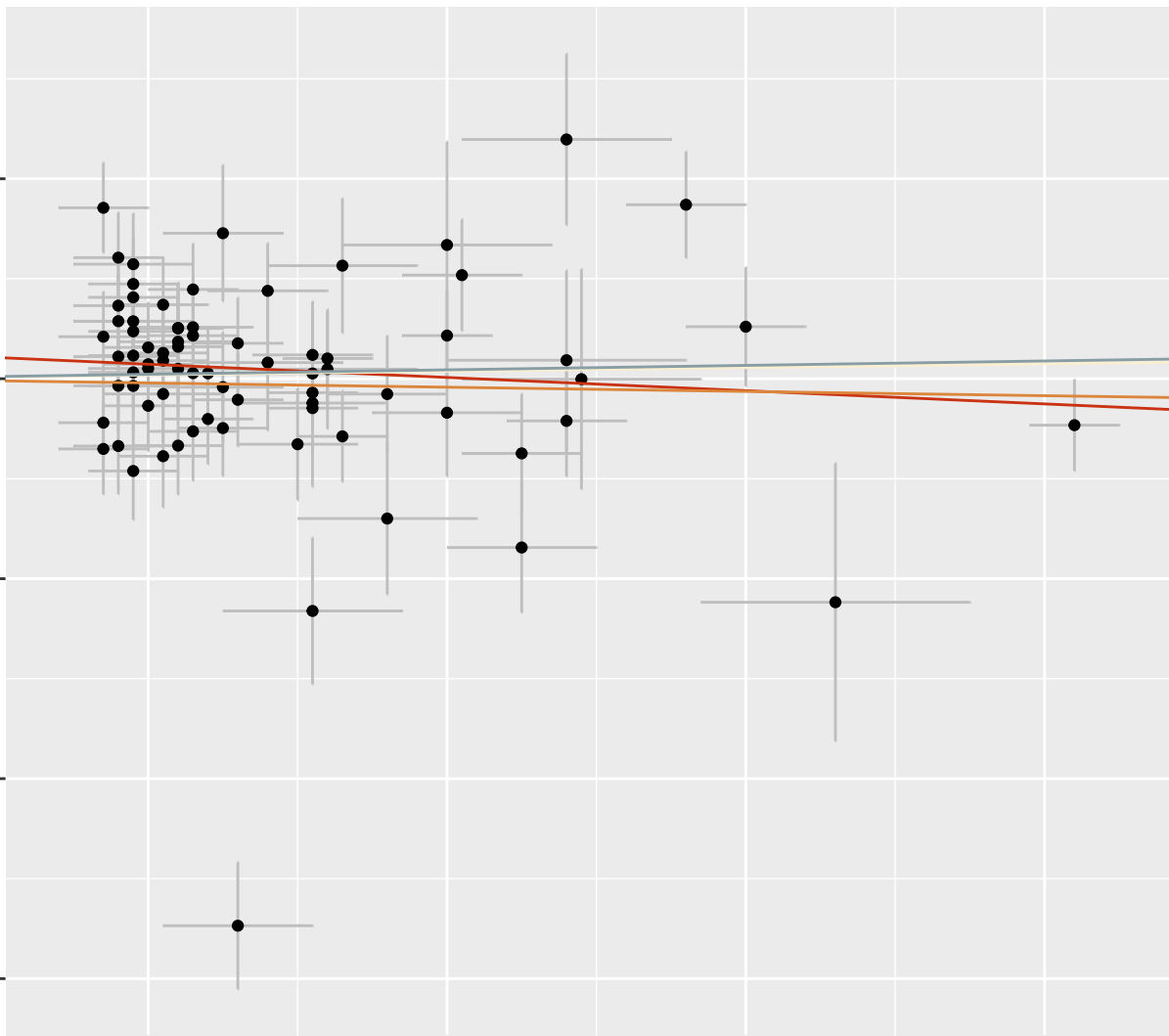
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped

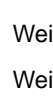


# MR Test



Inverse variance weighted (multiplicative random effects)

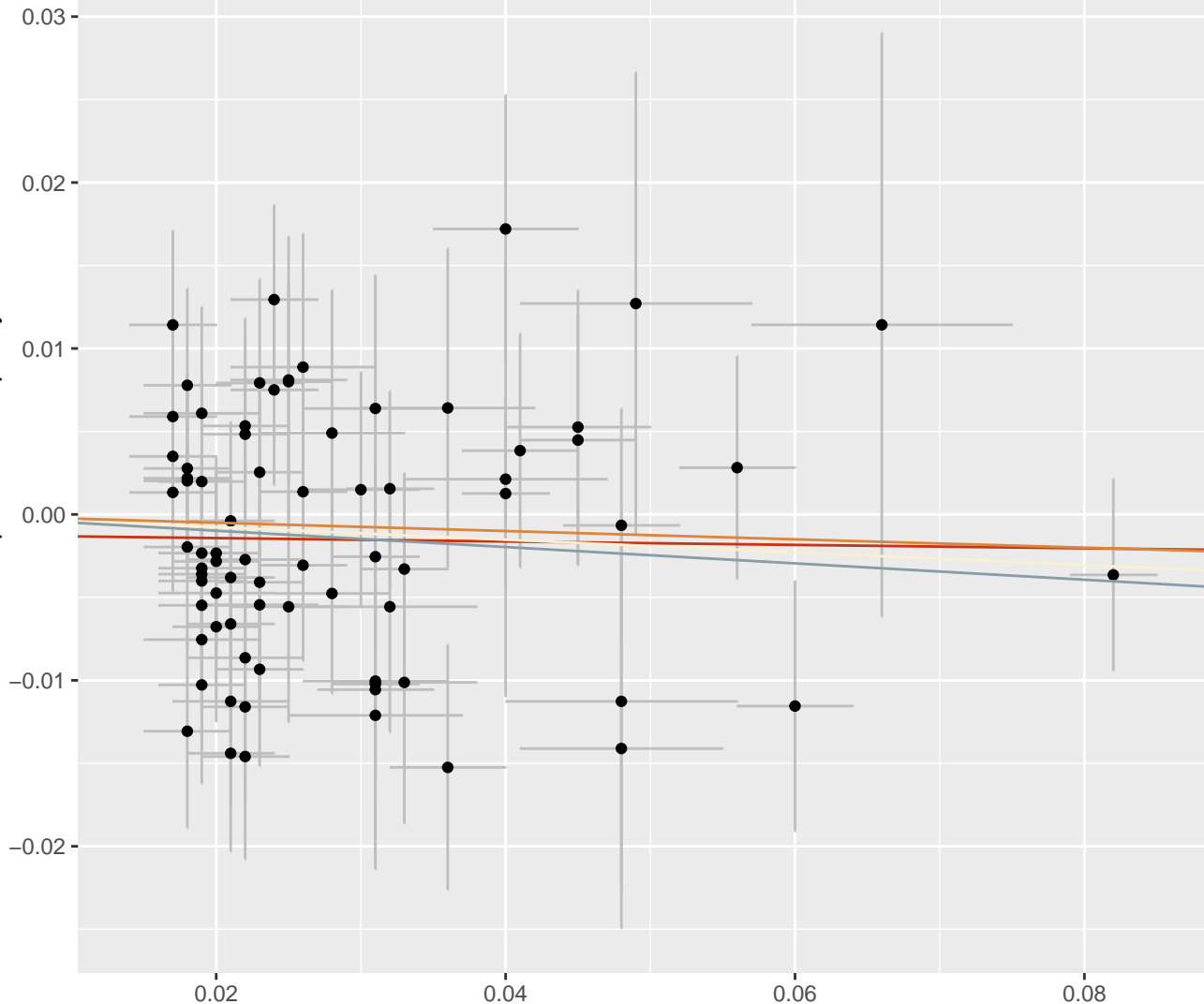
MR Egger



Weighted median

Weighted mode

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



# MR Test



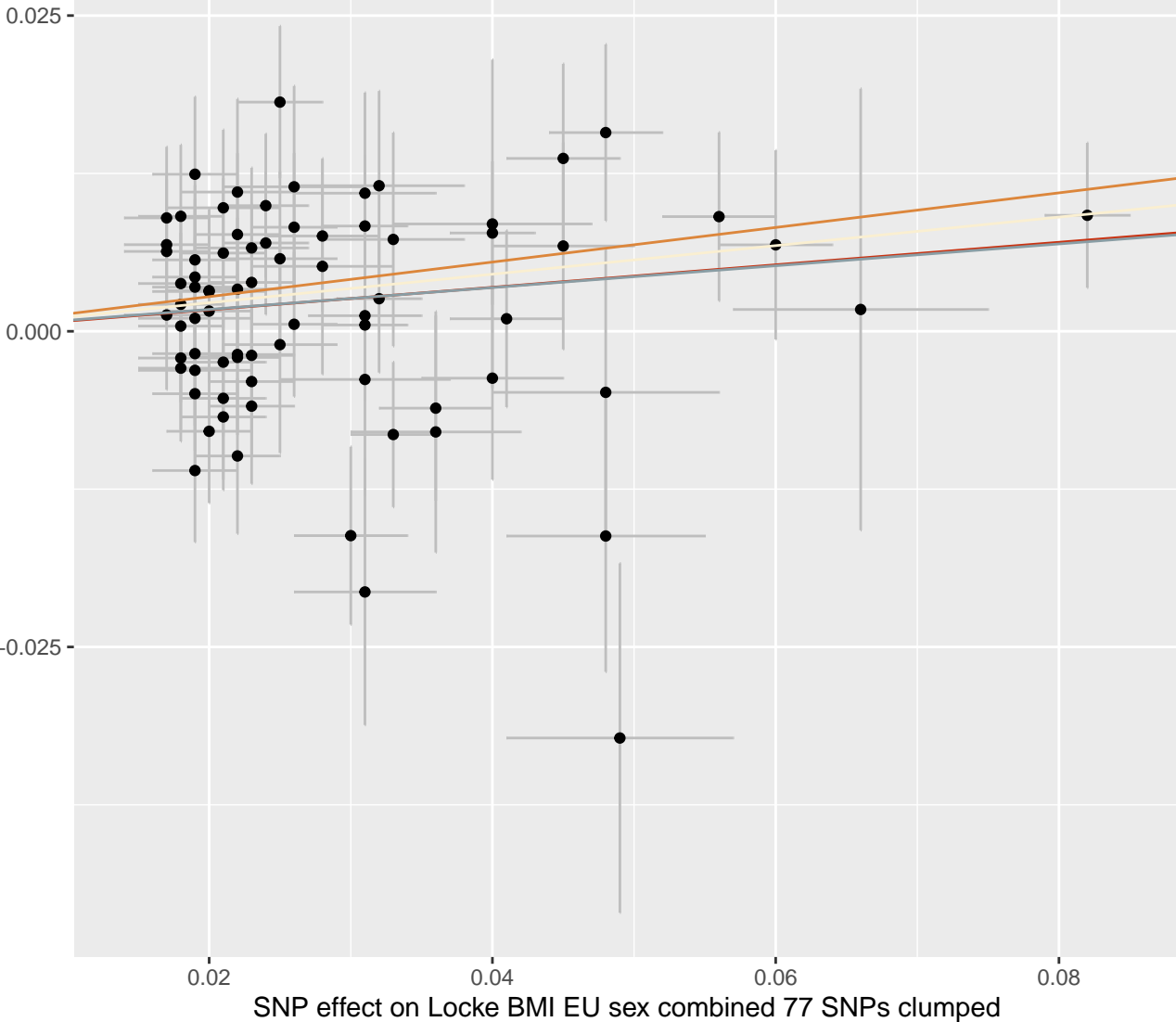
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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



# MR Test



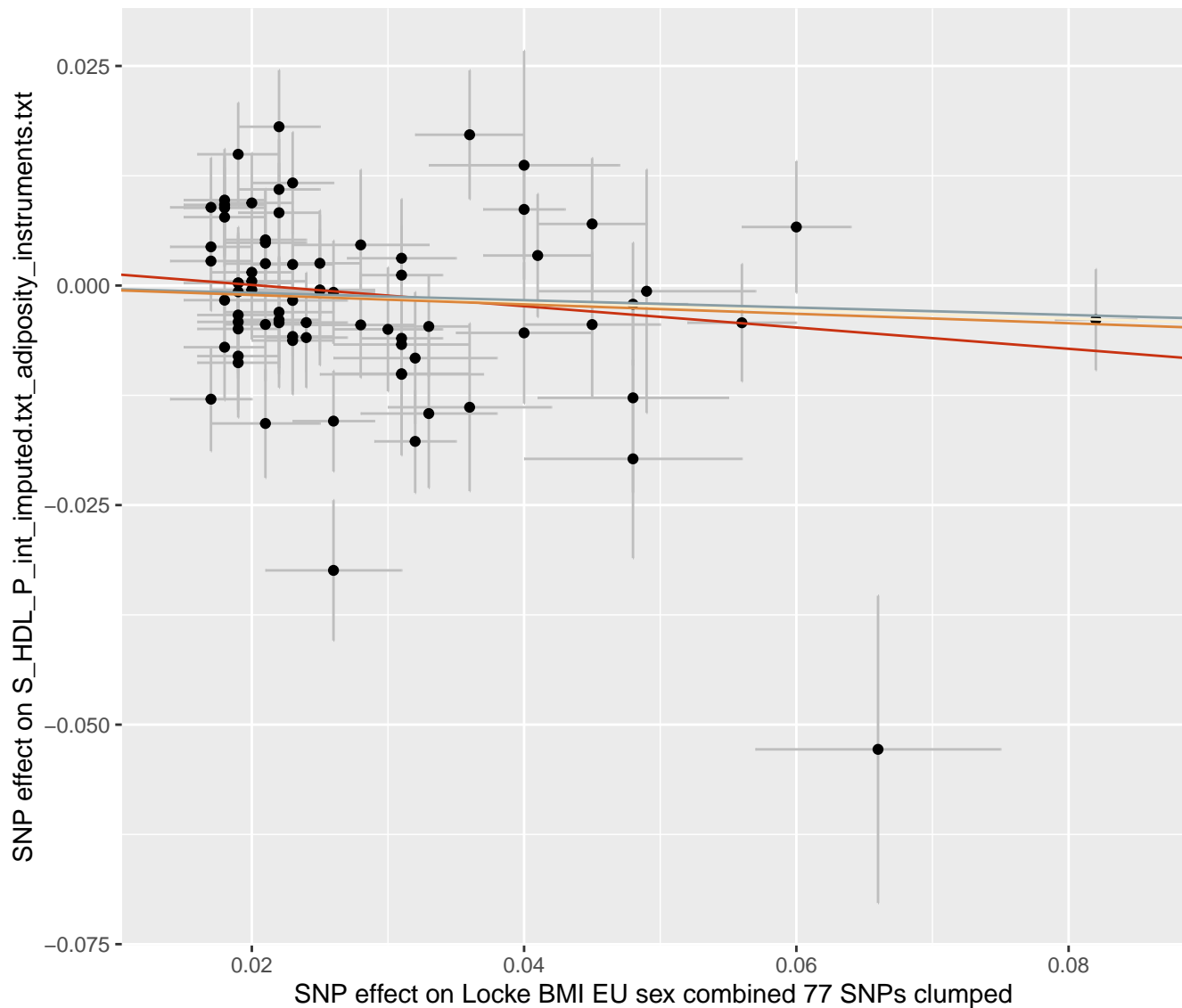
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test



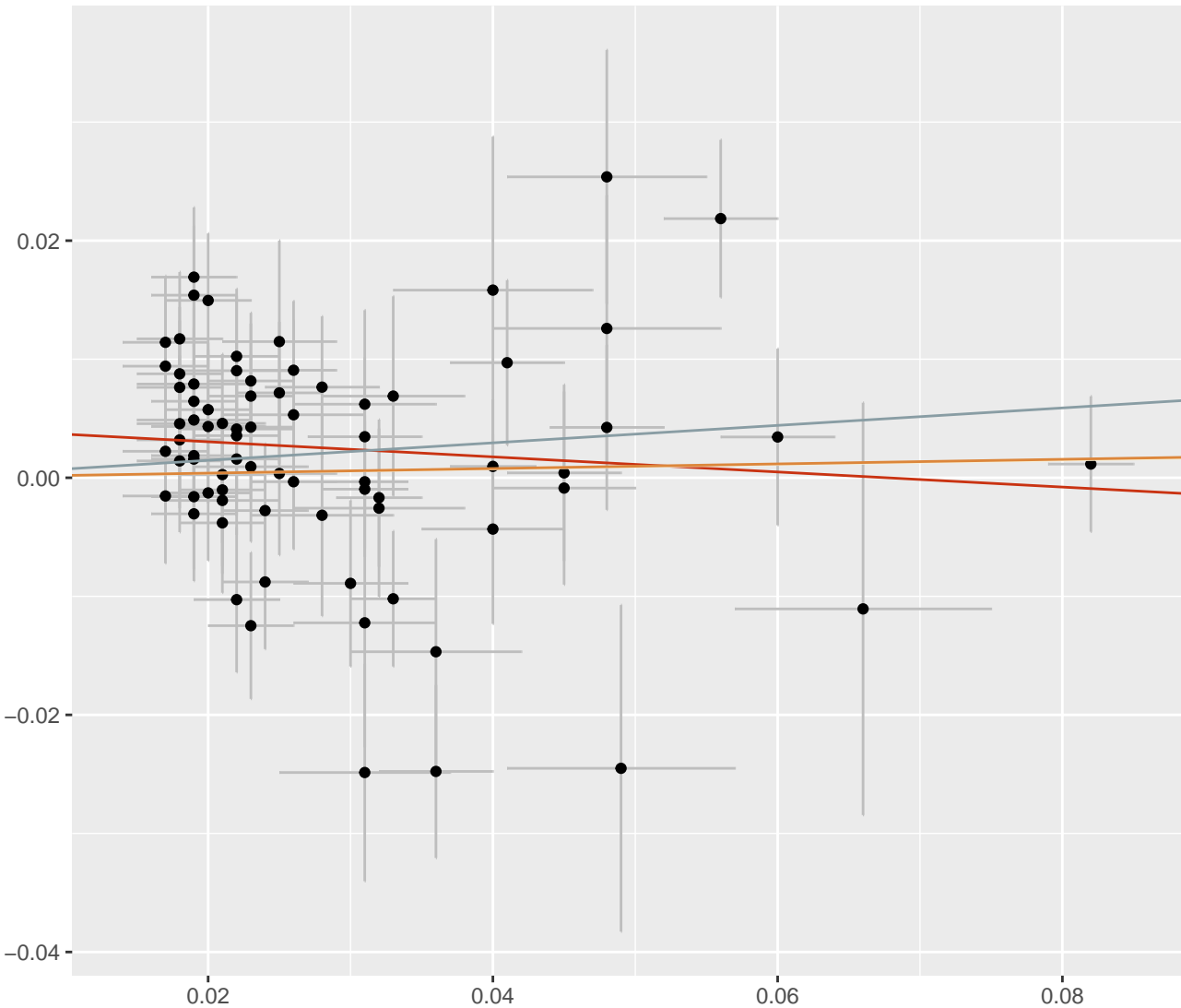
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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



SNP effect on Locke BMI EU sex combined 77 SNPs clumped

# MR Test

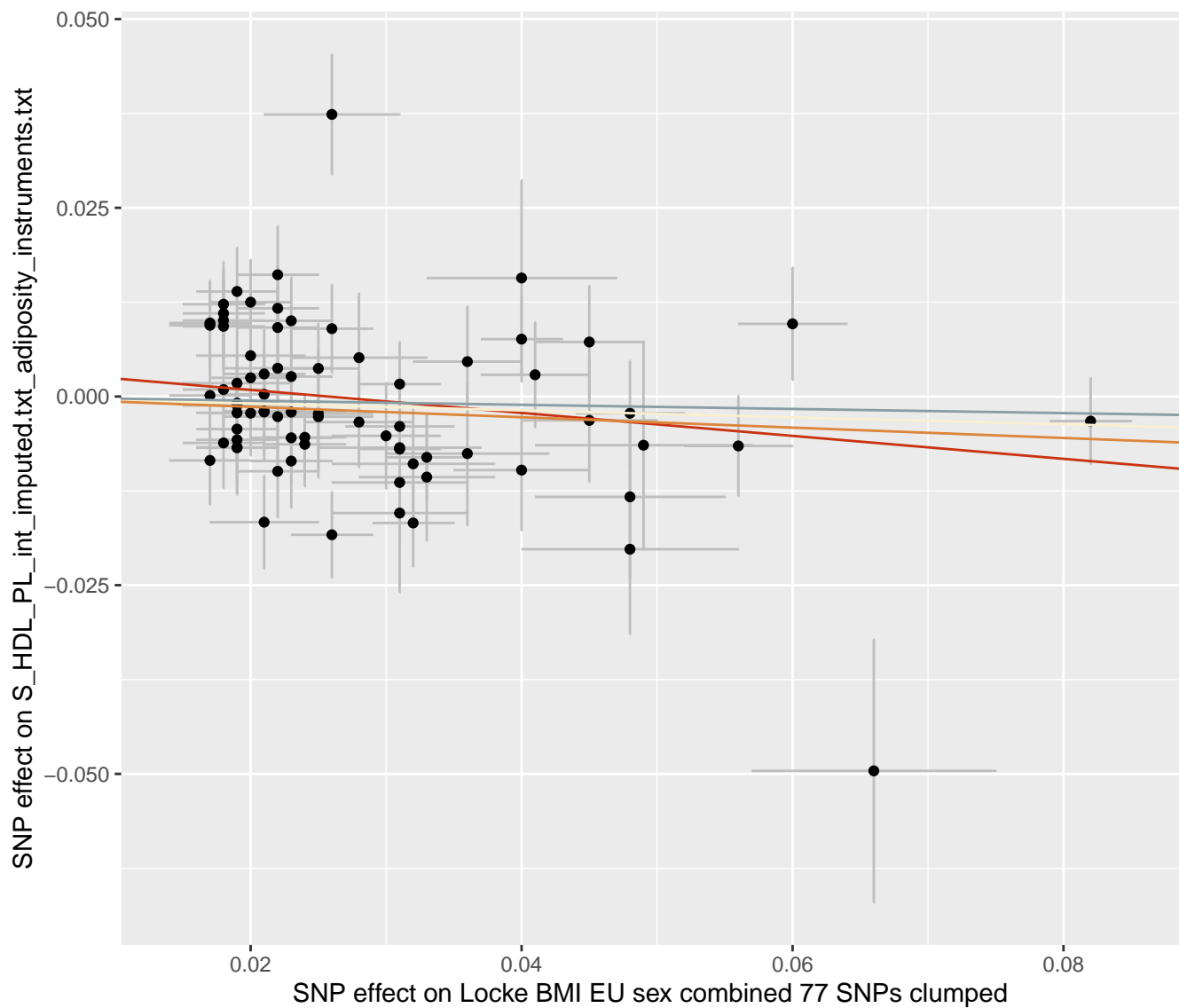


Inverse variance weighted (multiplicative random effects)

MR Egger

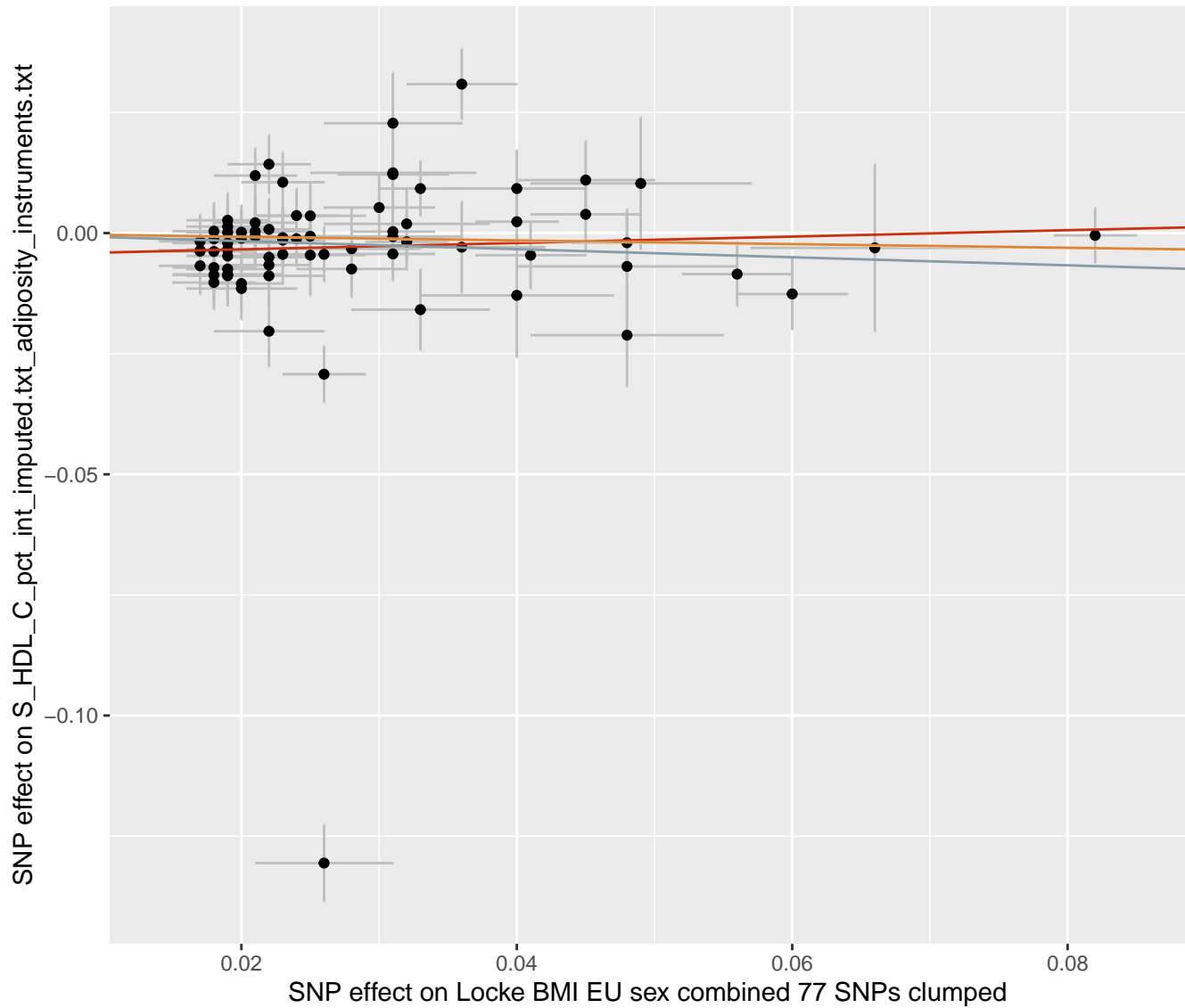
Weighted median

Weighted mode



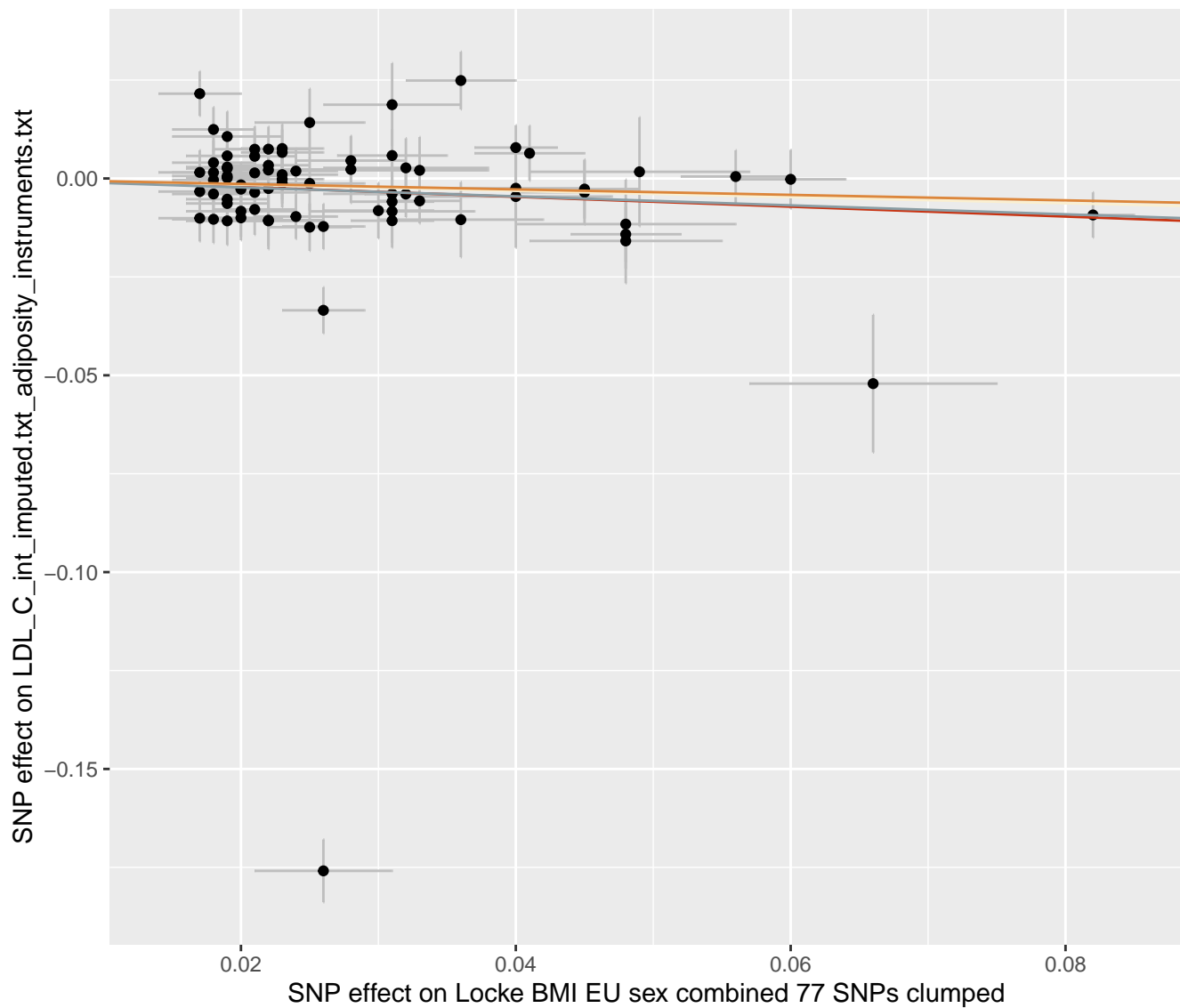
# MR Test

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



# MR Test

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





# MR Test



Inverse variance weighted (multiplicative random effects)

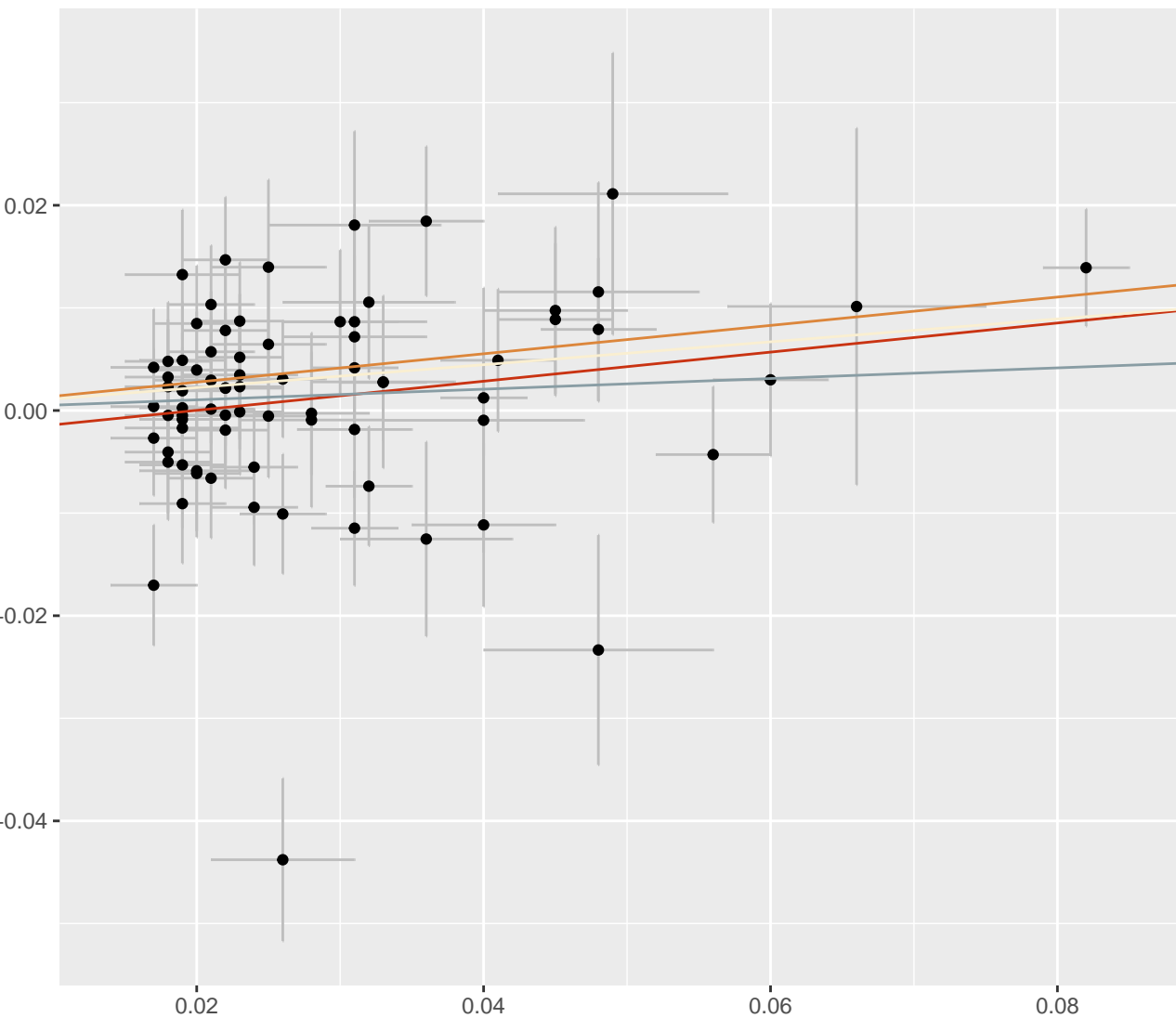
MR Egger



Weighted median

Weighted mode

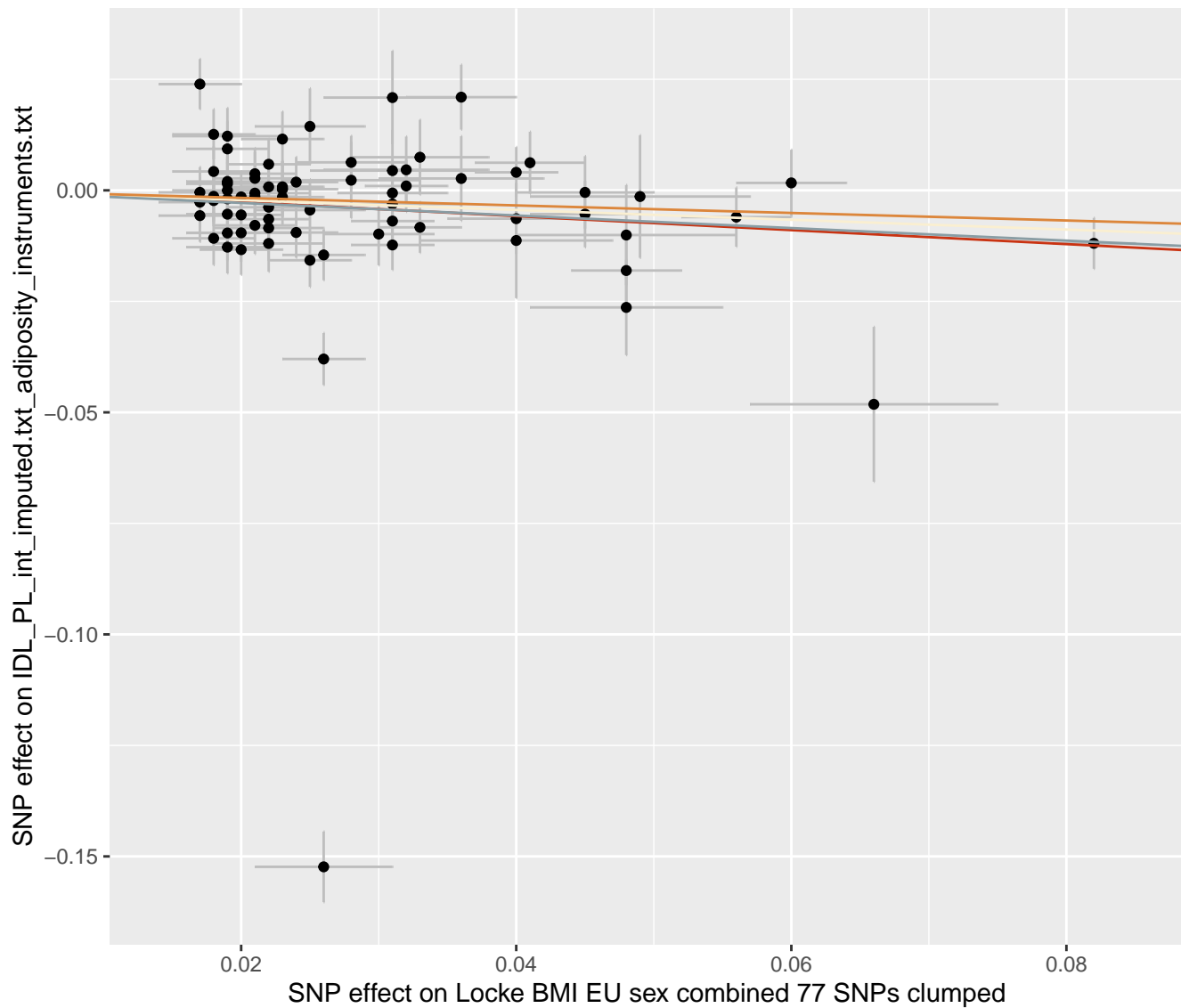
SNP effect on bOHbutyrate\_int\_imputed.txt\_adiposity\_instruments.txt



SNP effect on Locke BMI EU sex combined 77 SNPs clumped

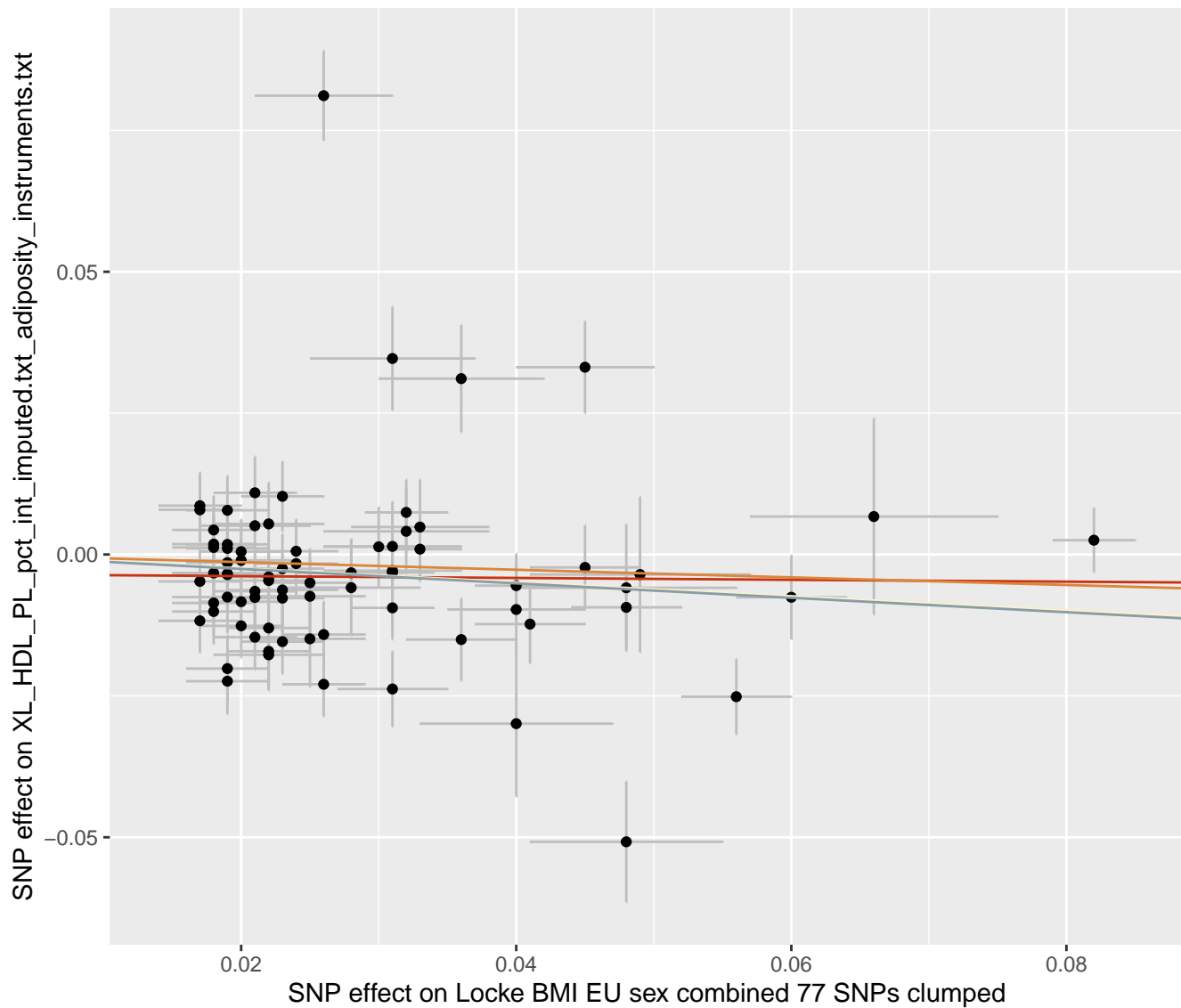
# MR Test

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



# MR Test

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



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.02

0.00

-0.02

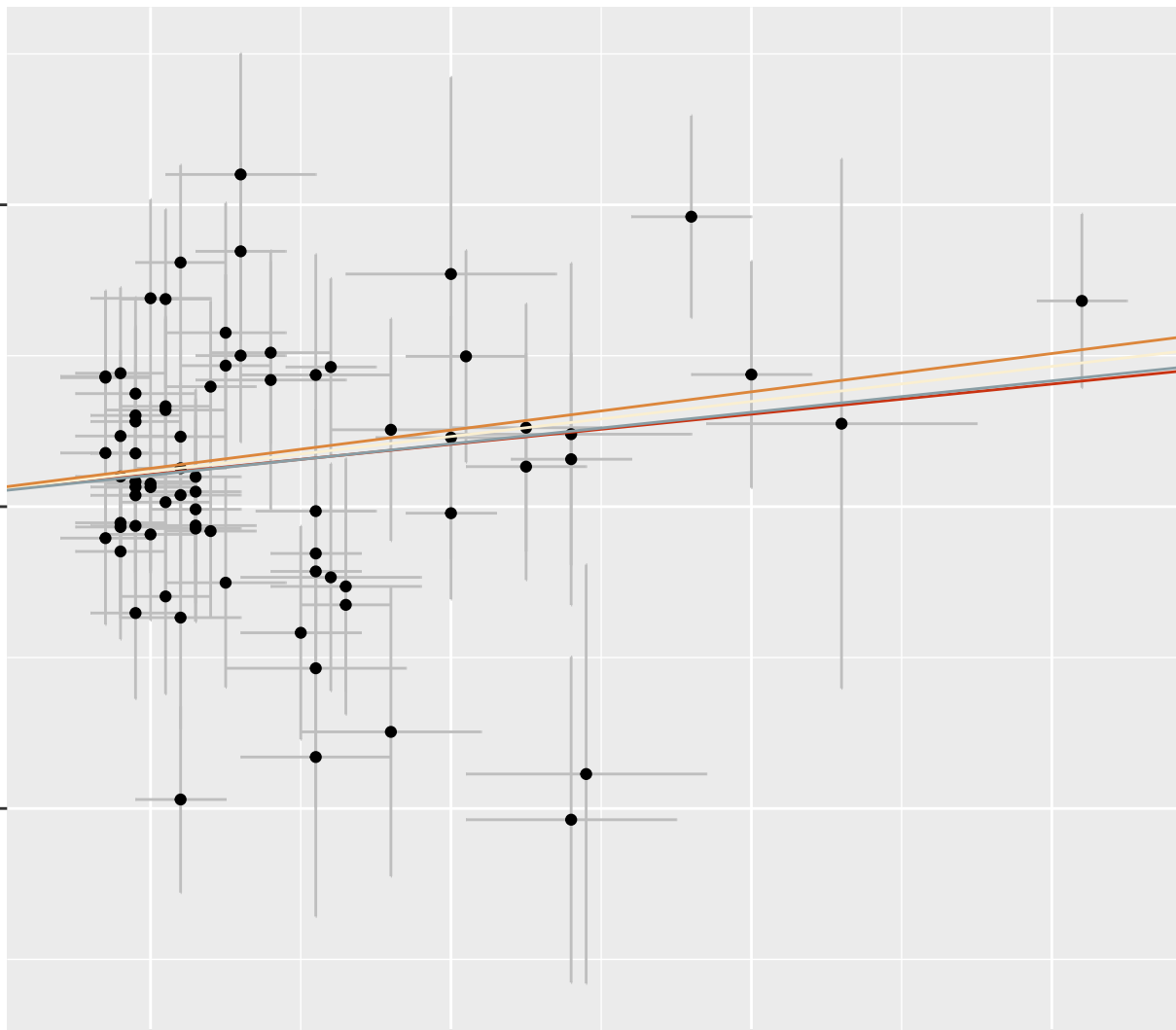
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode

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

0.025

0.000

-0.025

-0.050

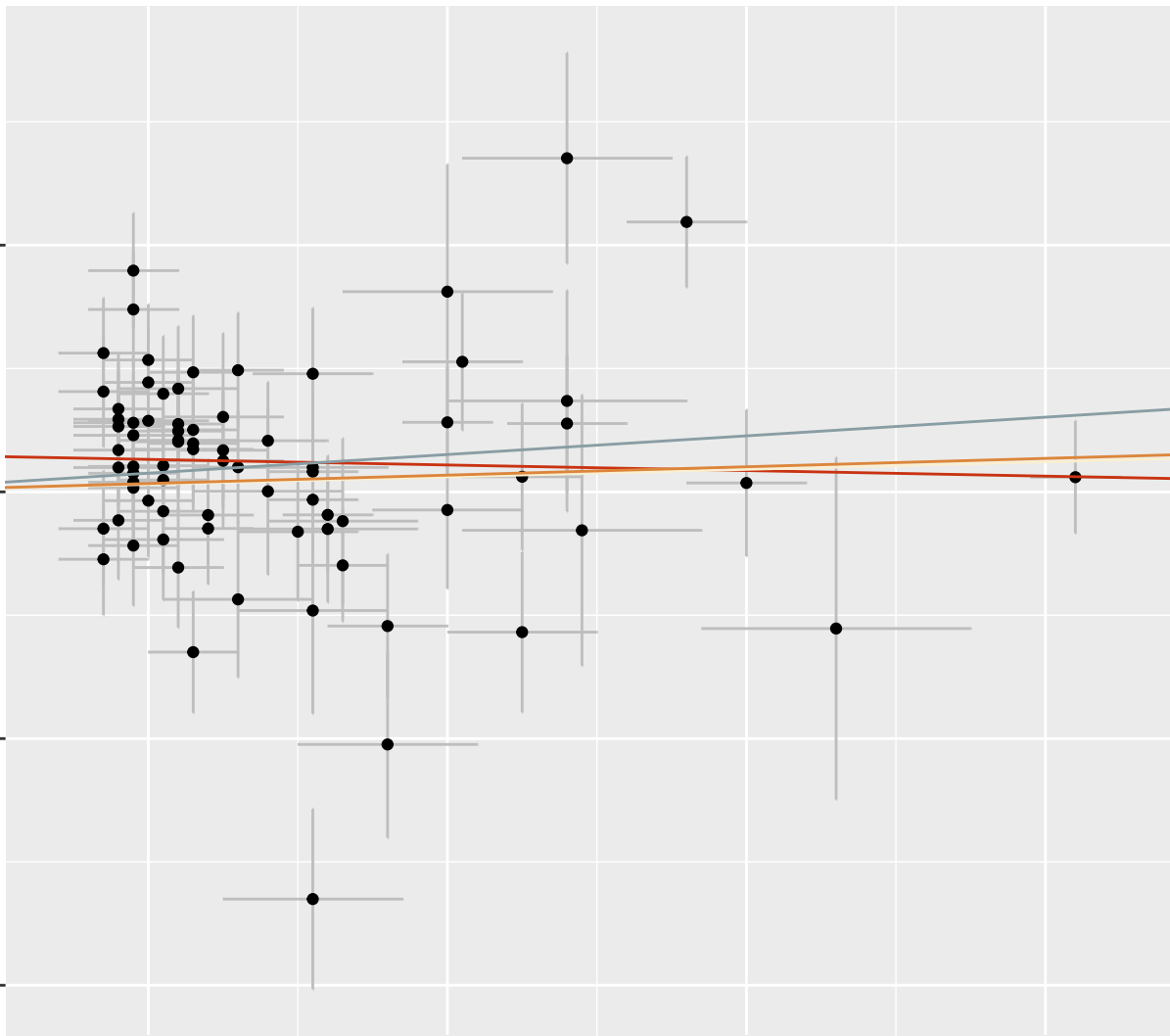
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test



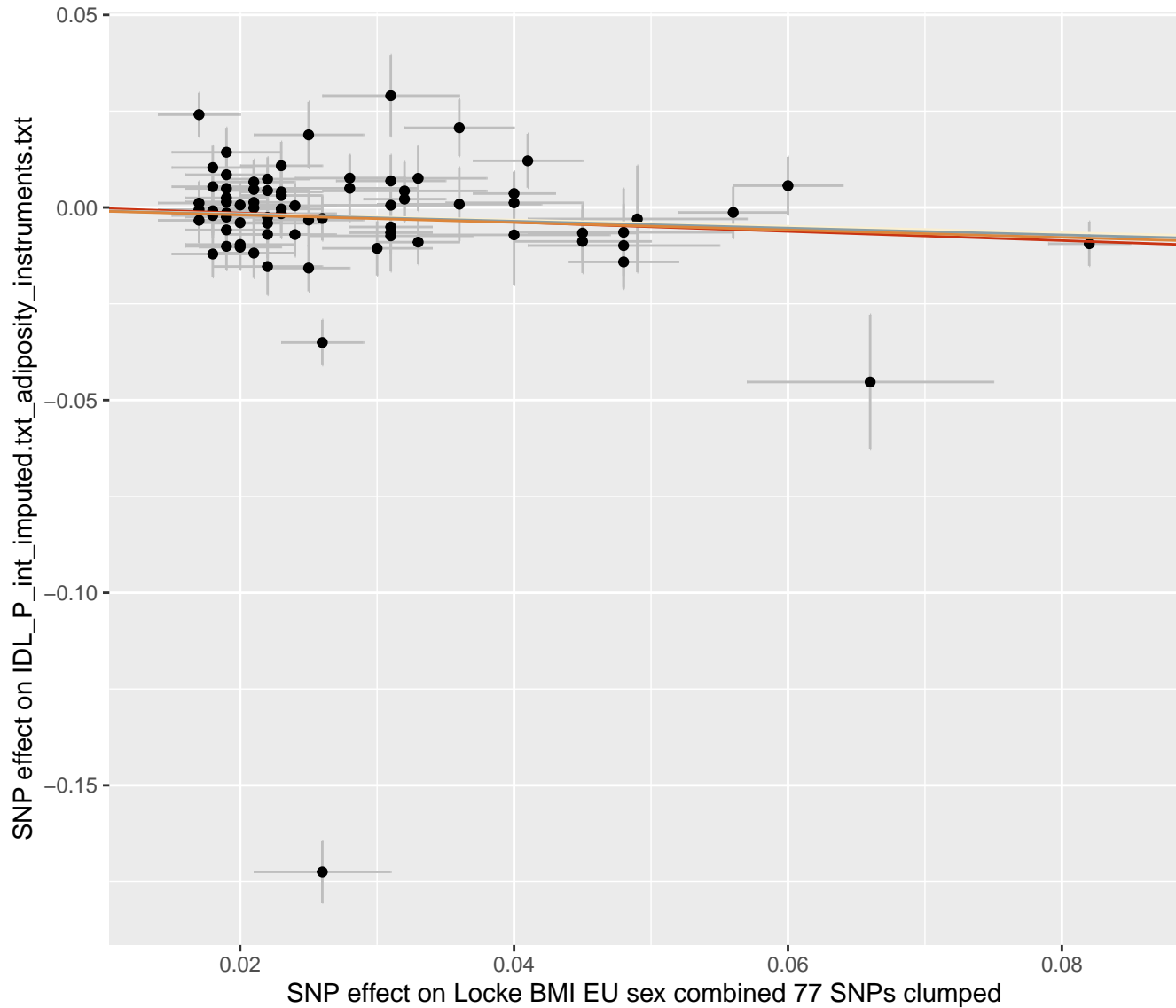
Inverse variance weighted (multiplicative random effects)

MR Egger



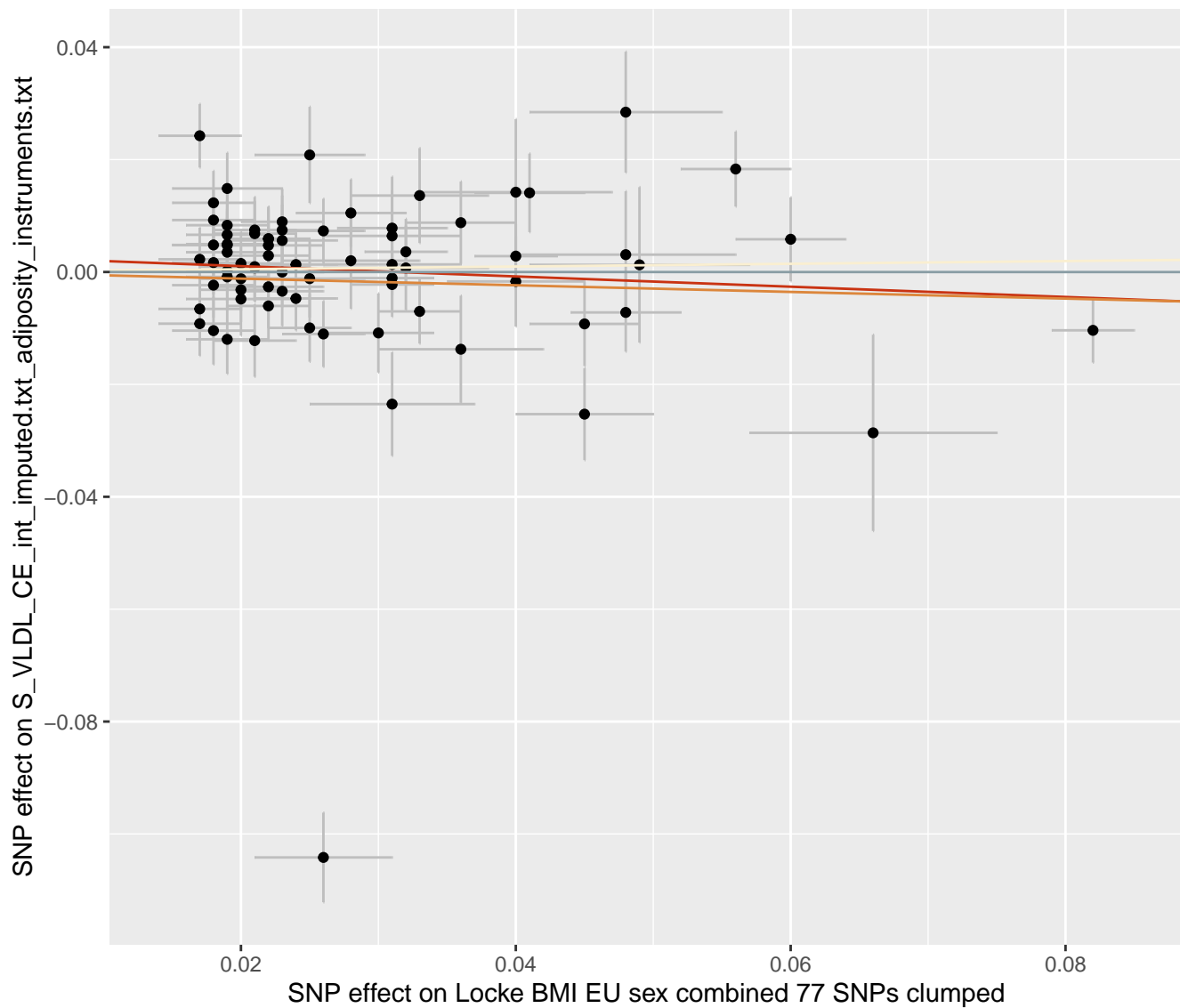
Weighted median

Weighted mode



# MR Test

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



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.02

0.00

-0.02

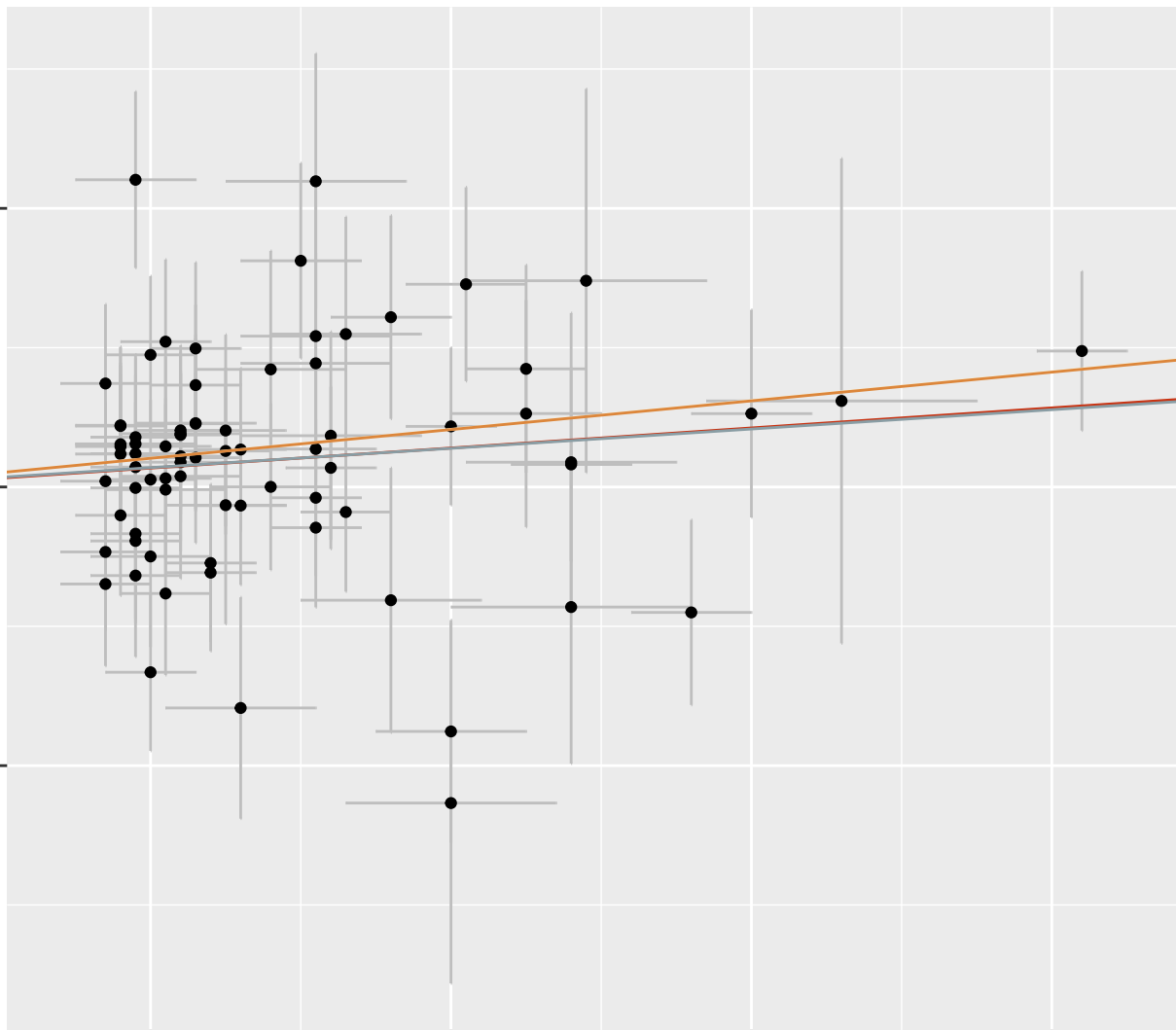
0.02

0.04

0.06

0.08

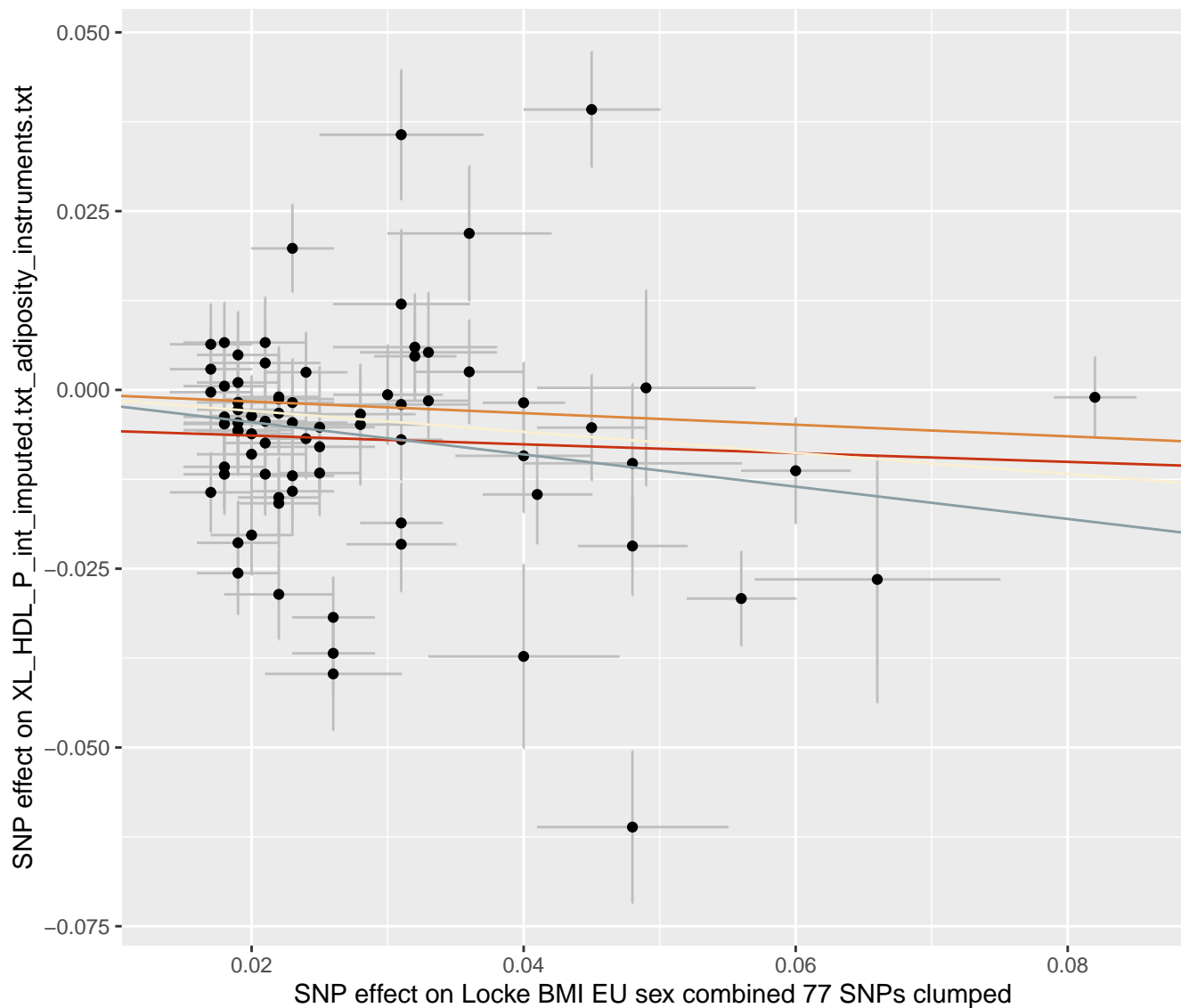
SNP effect on Locke BMI EU sex combined 77 SNPs clumped





# MR Test

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



# MR Test

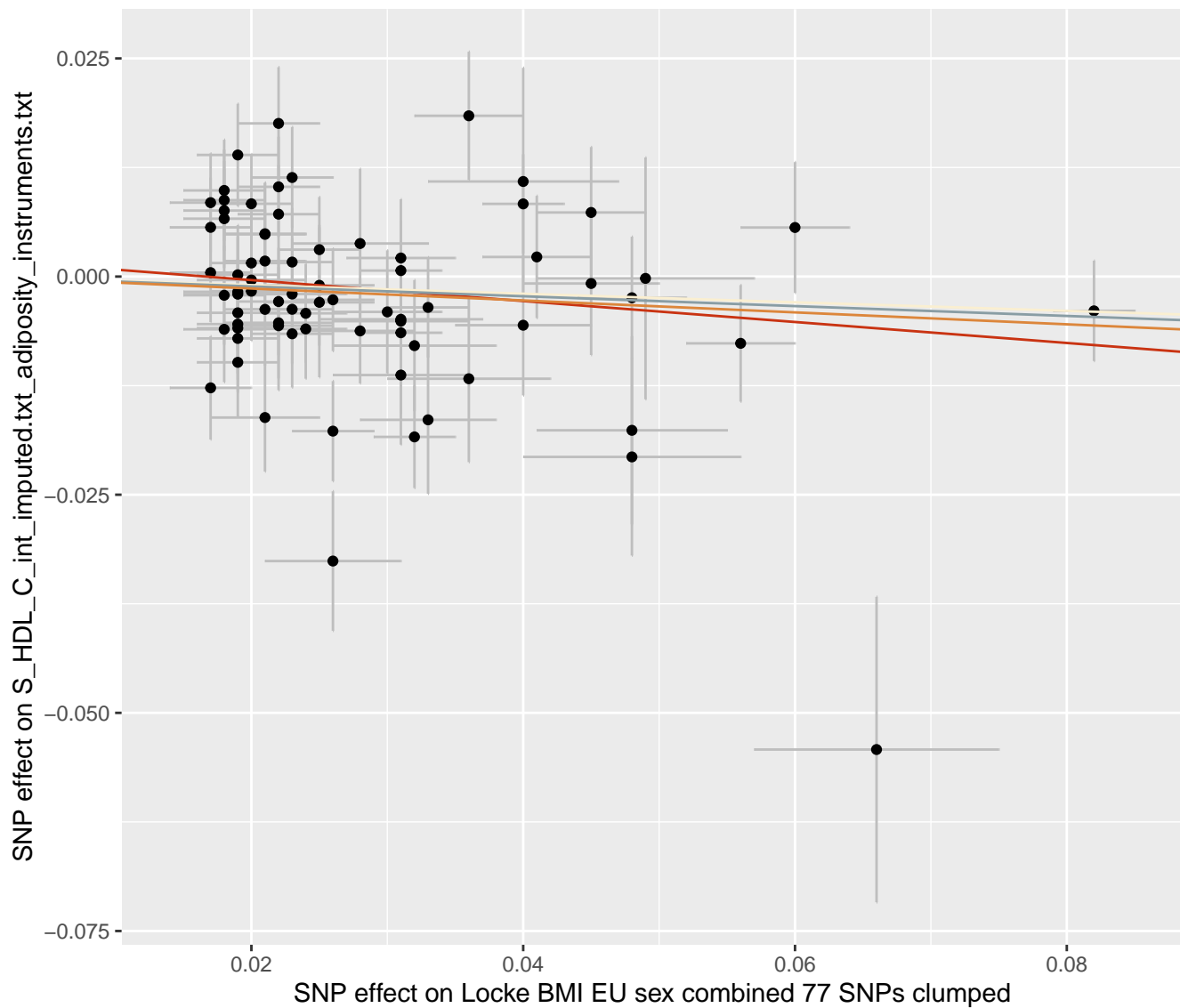


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.00

-0.05

-0.10

-0.15

-0.20

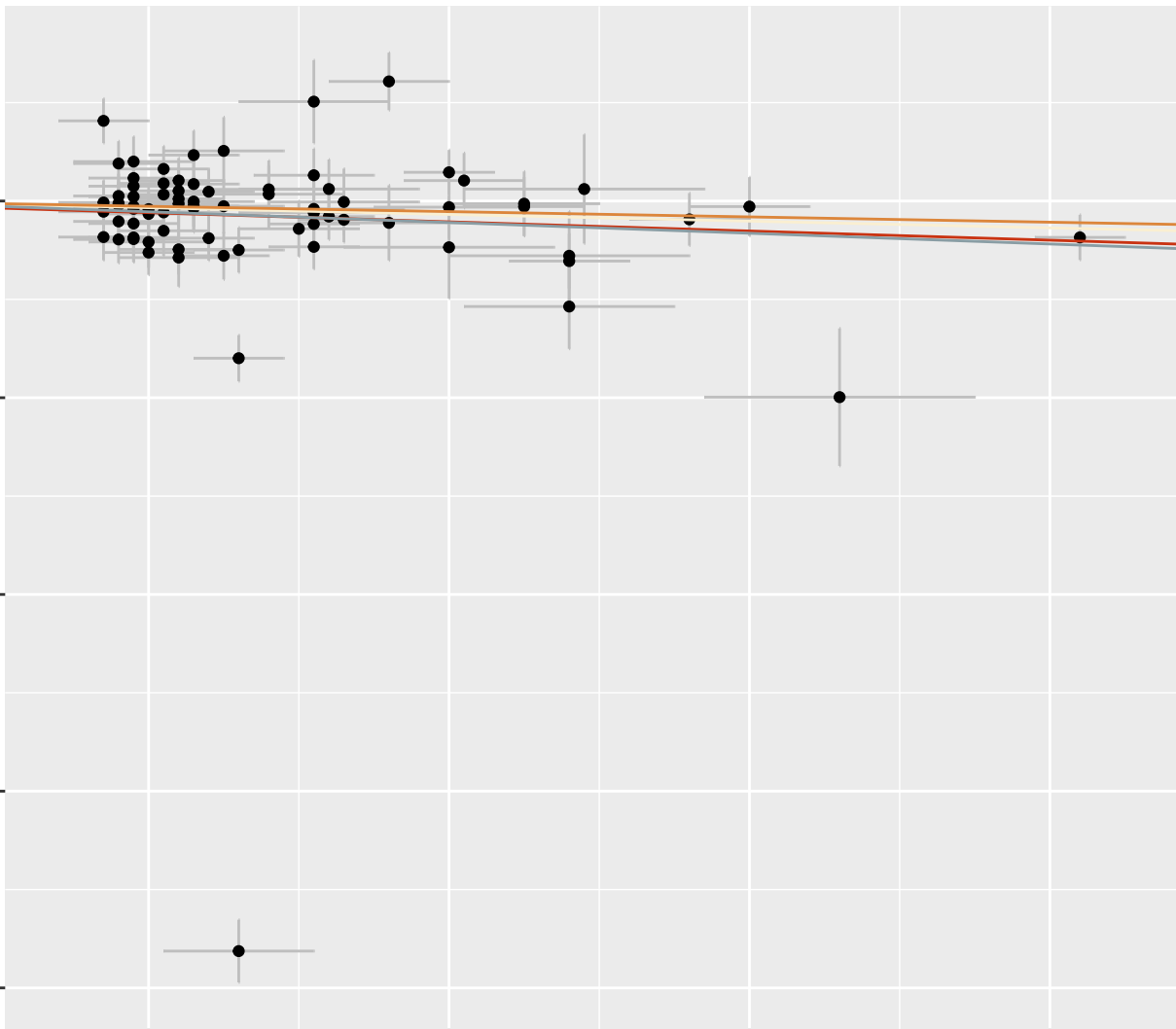
0.02

0.04

0.06

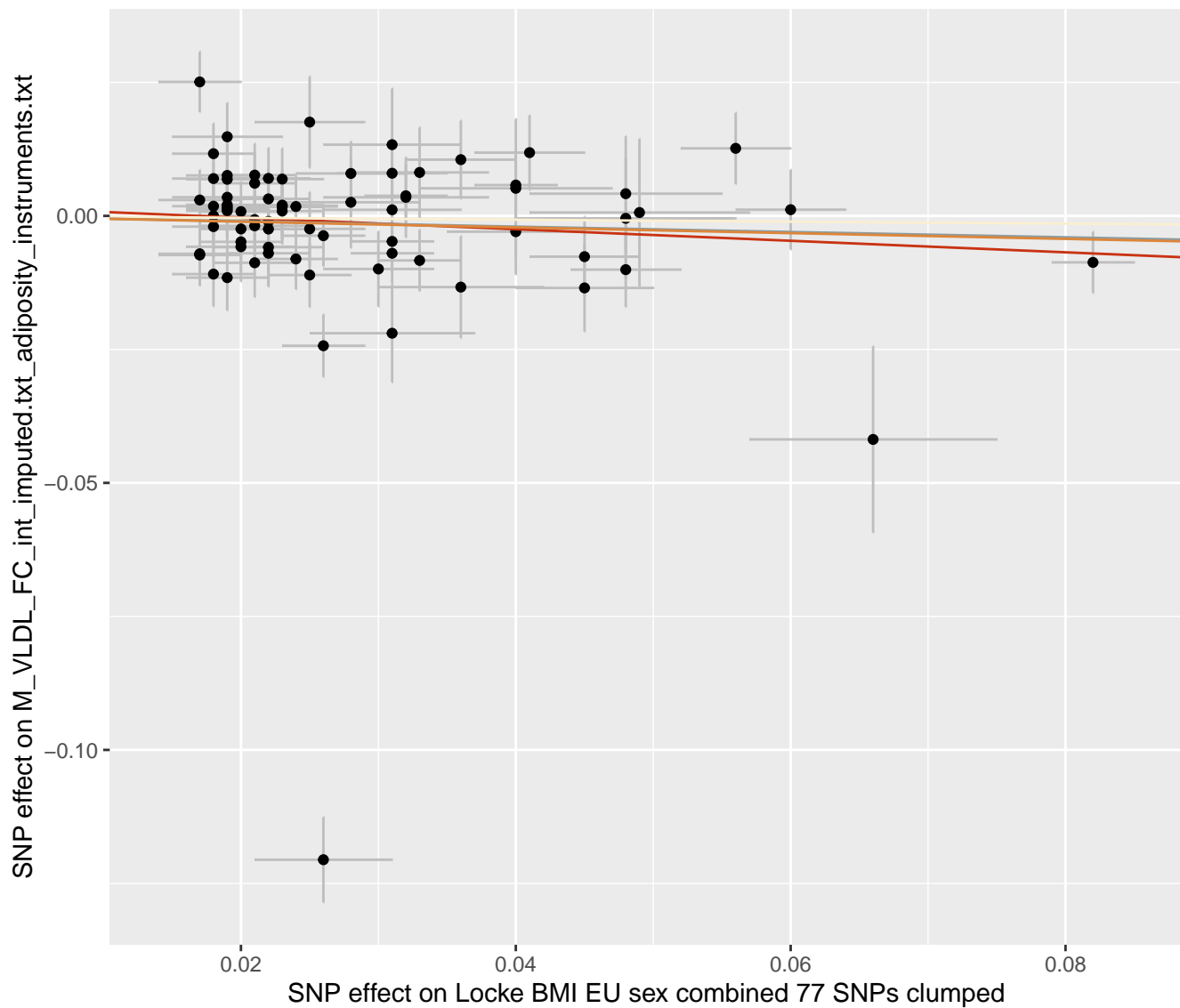
0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



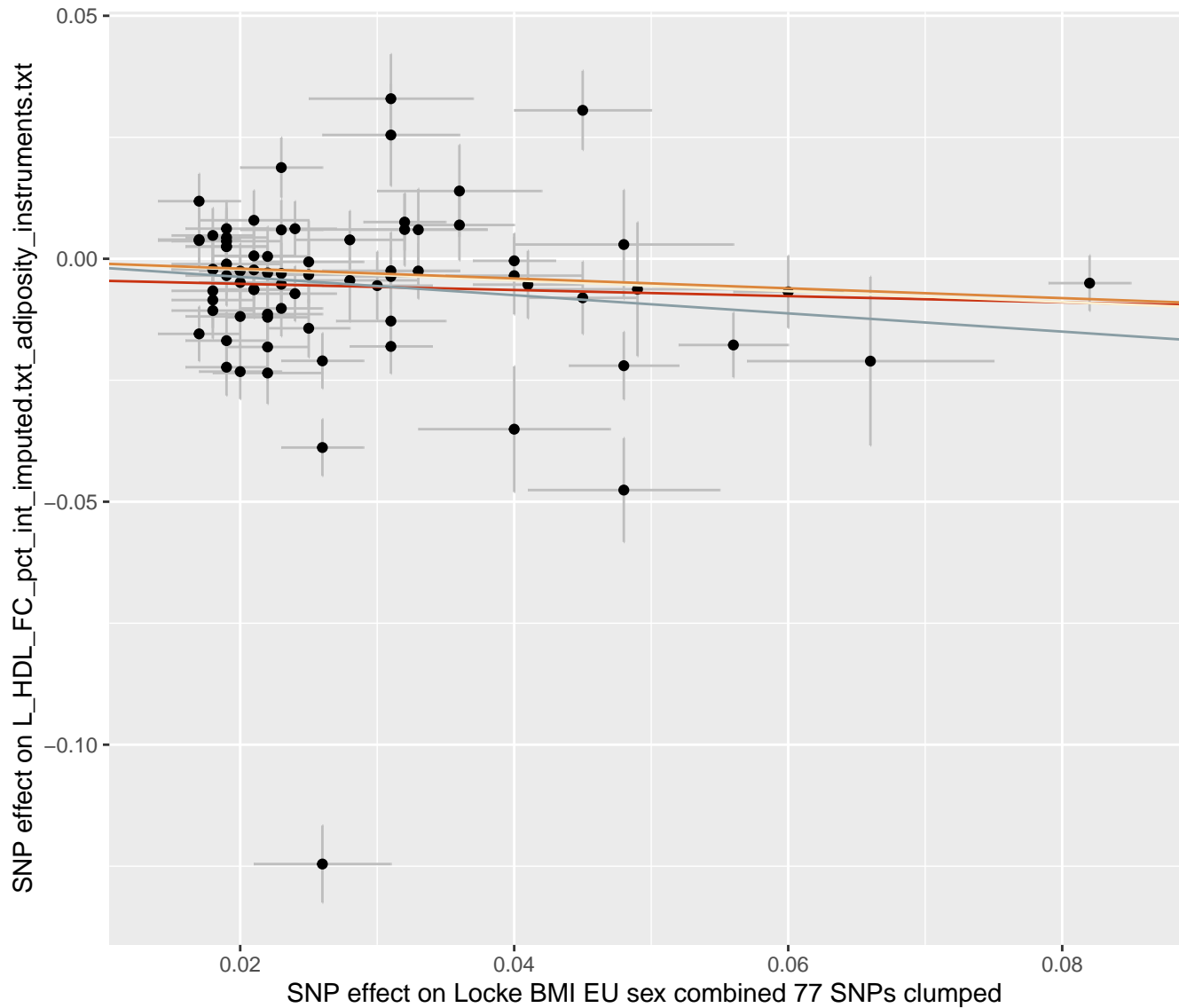
# MR Test

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



# MR Test

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



# MR Test

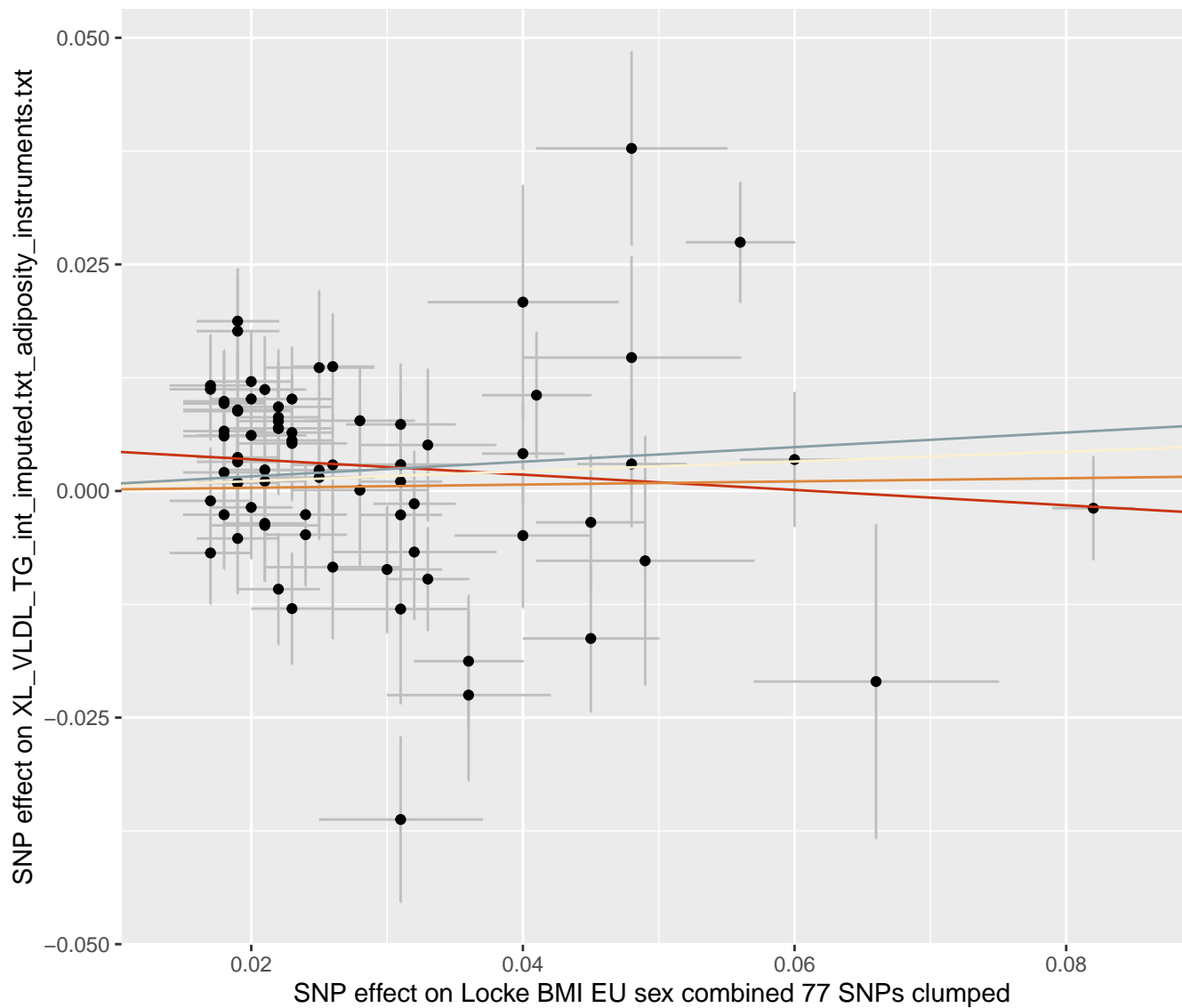


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test

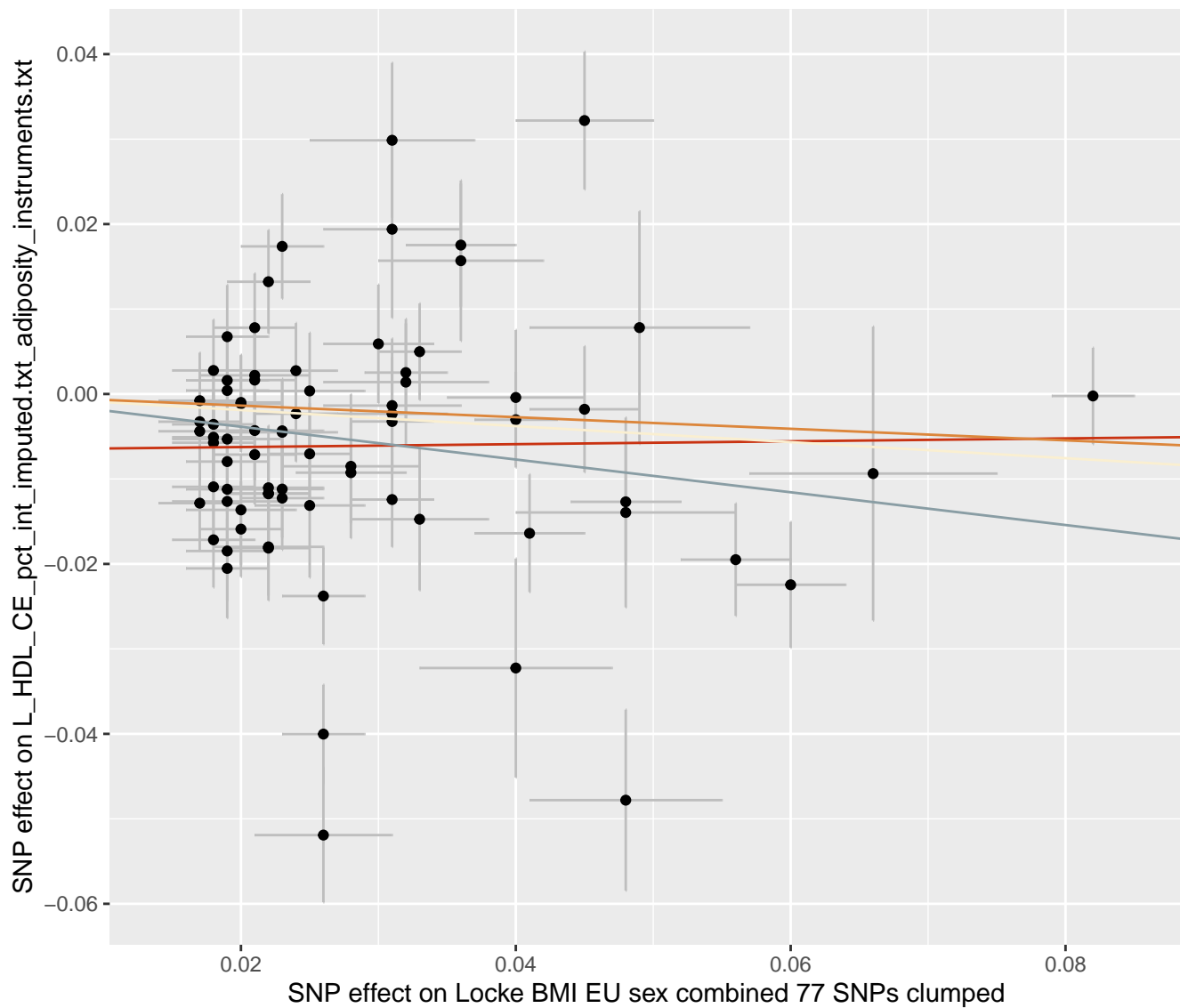


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)

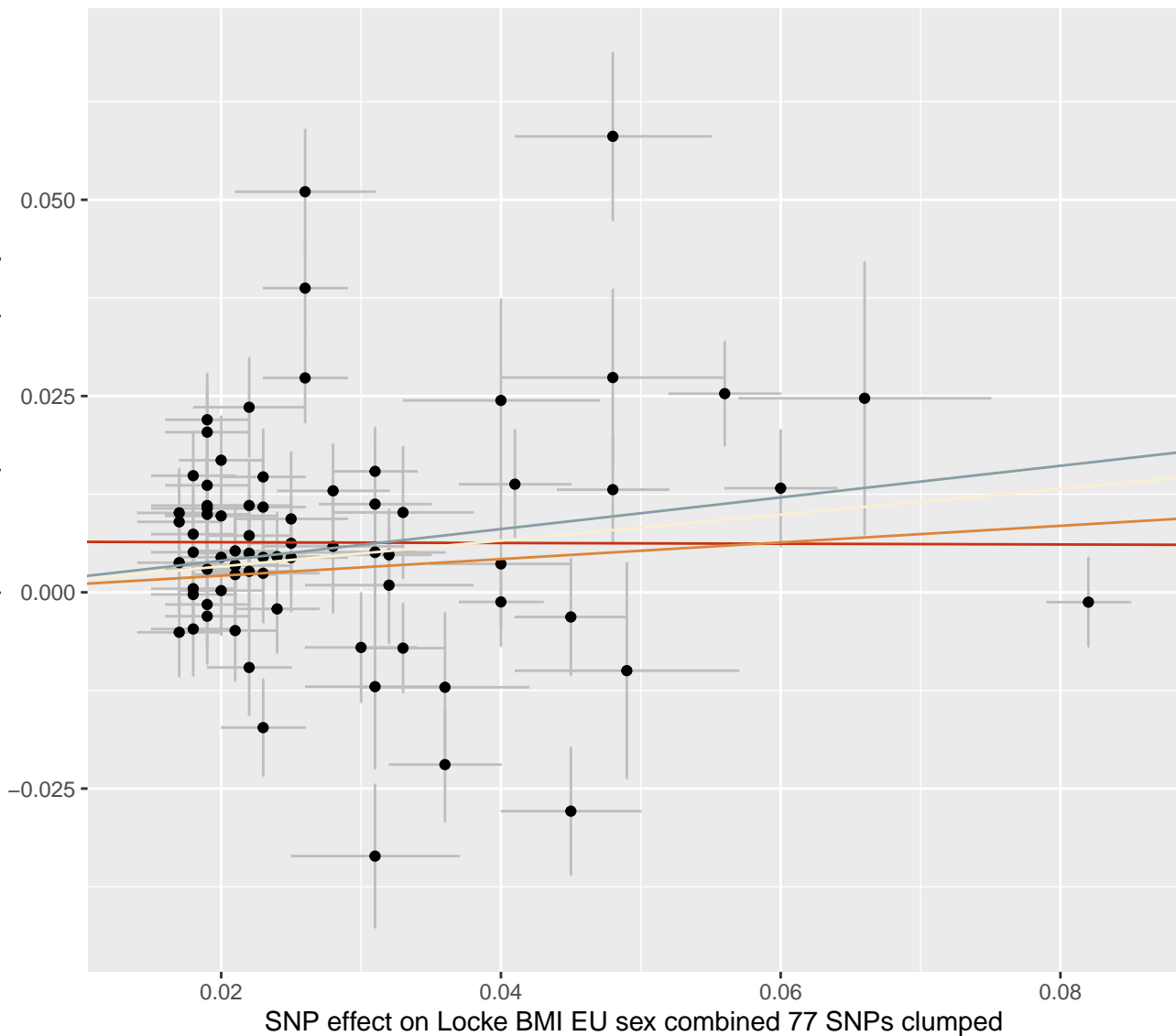
MR Egger



Weighted median

Weighted mode

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





# MR Test



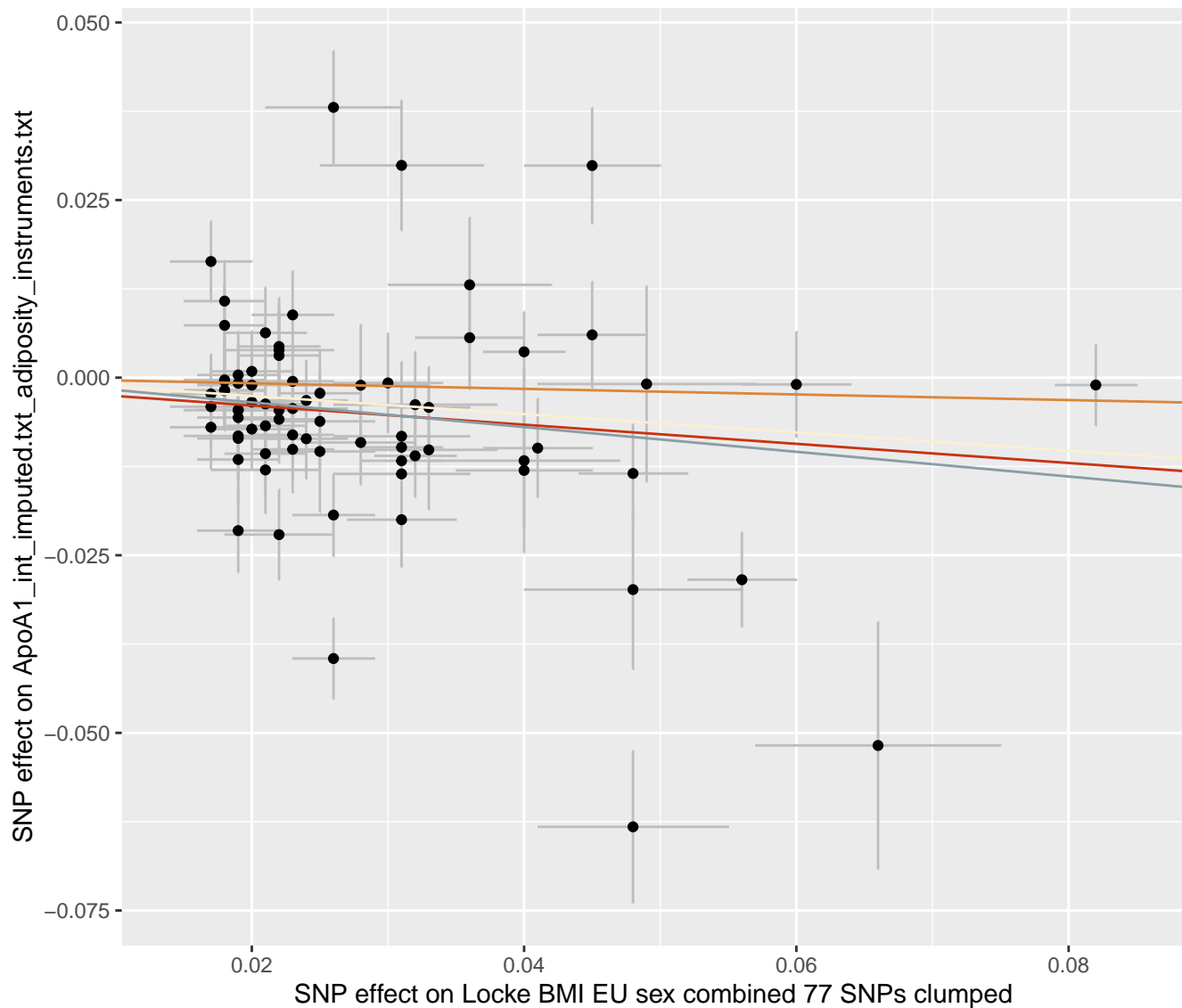
Inverse variance weighted (multiplicative random effects)

MR Egger



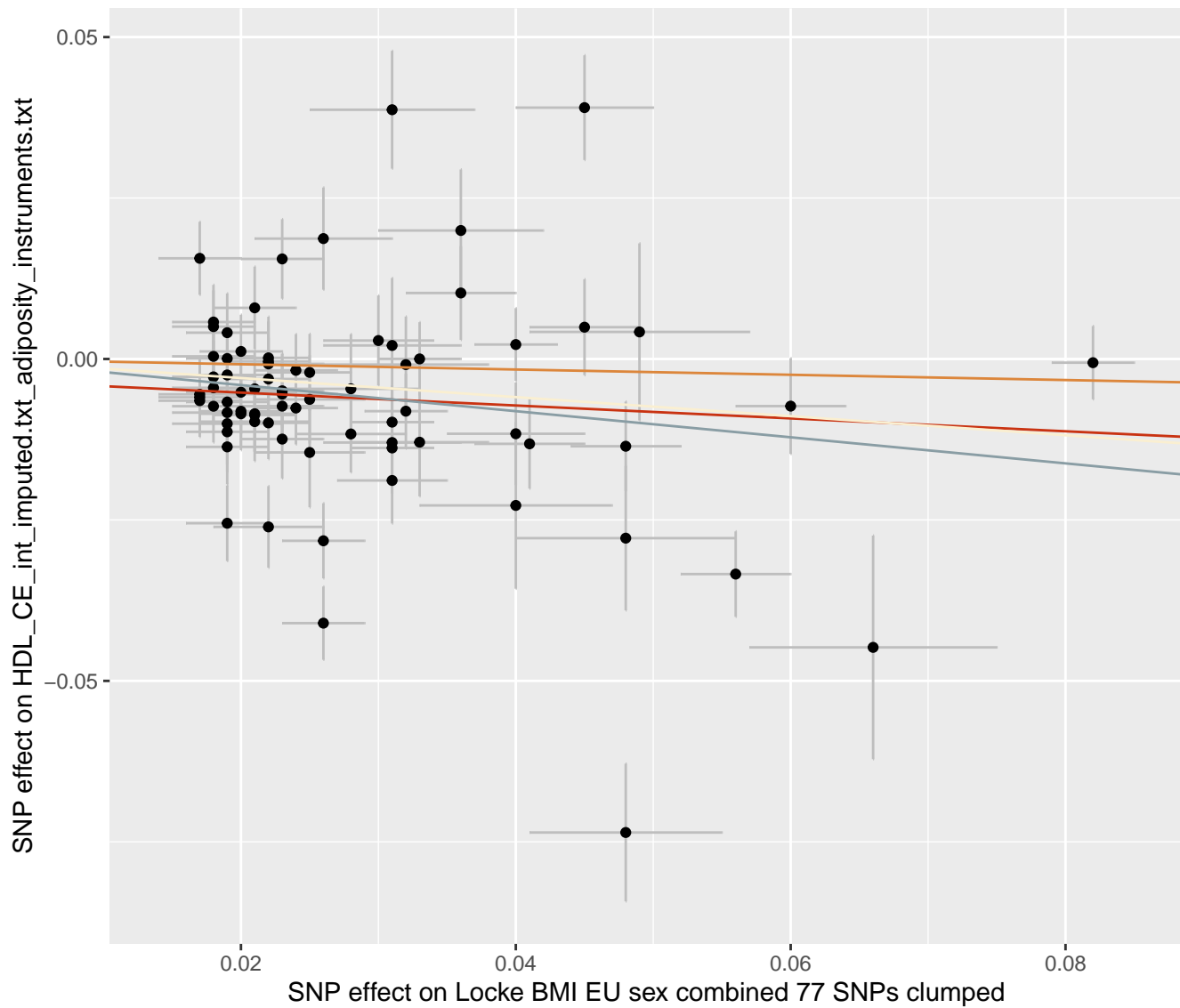
Weighted median

Weighted mode



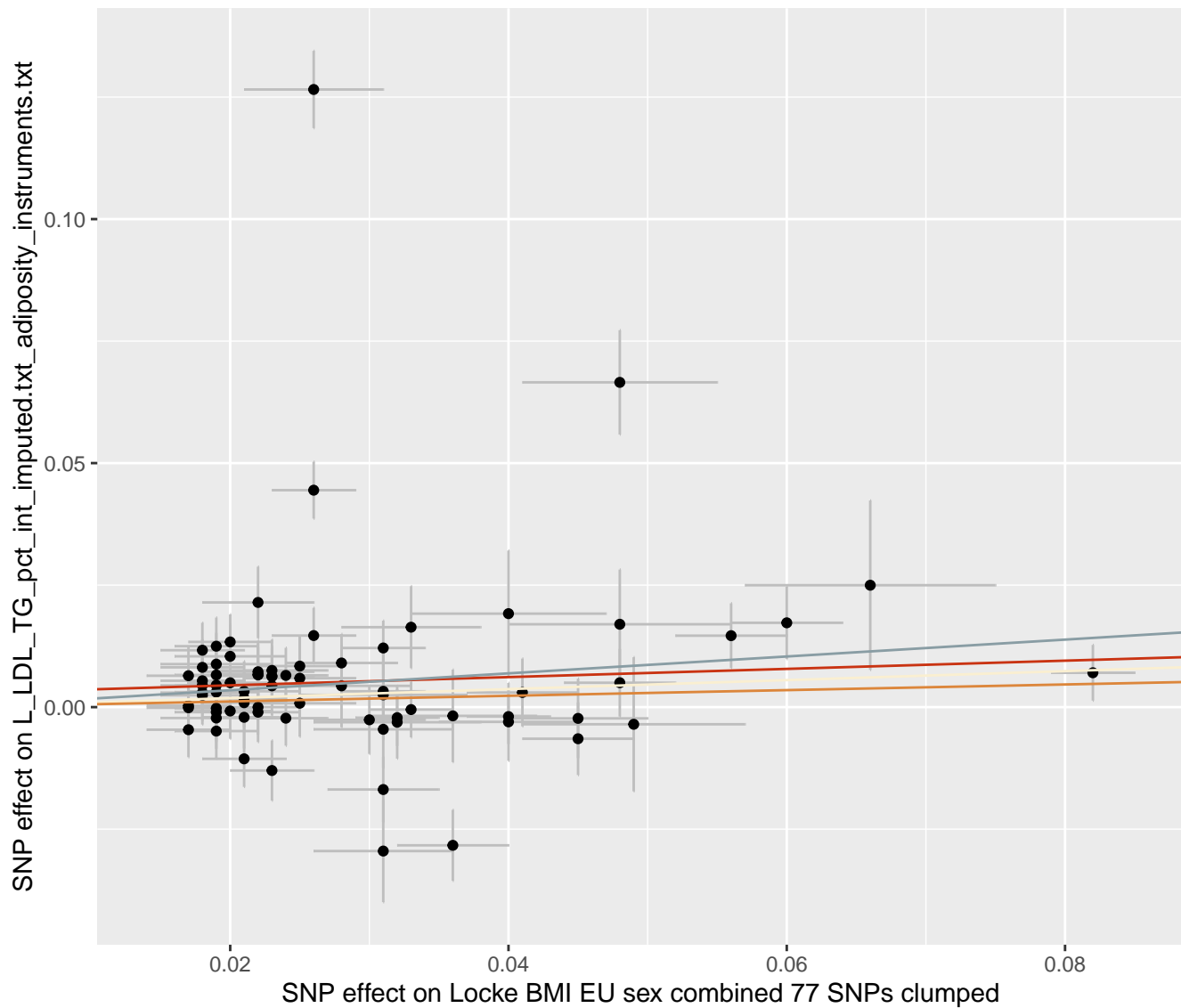
# MR Test

- 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)

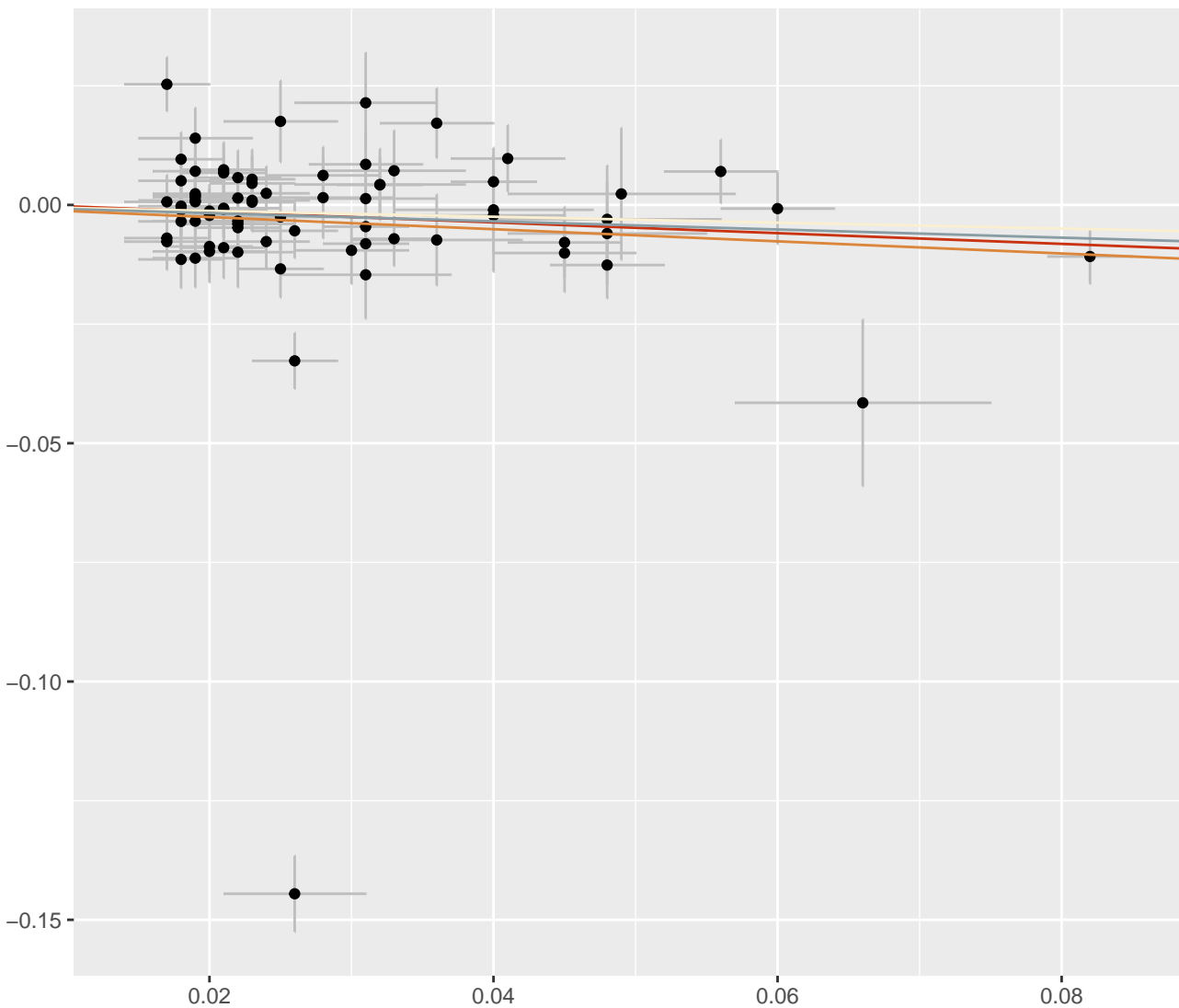
MR Egger



Weighted median

Weighted mode

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



SNP effect on Locke BMI EU sex combined 77 SNPs clumped

# MR Test

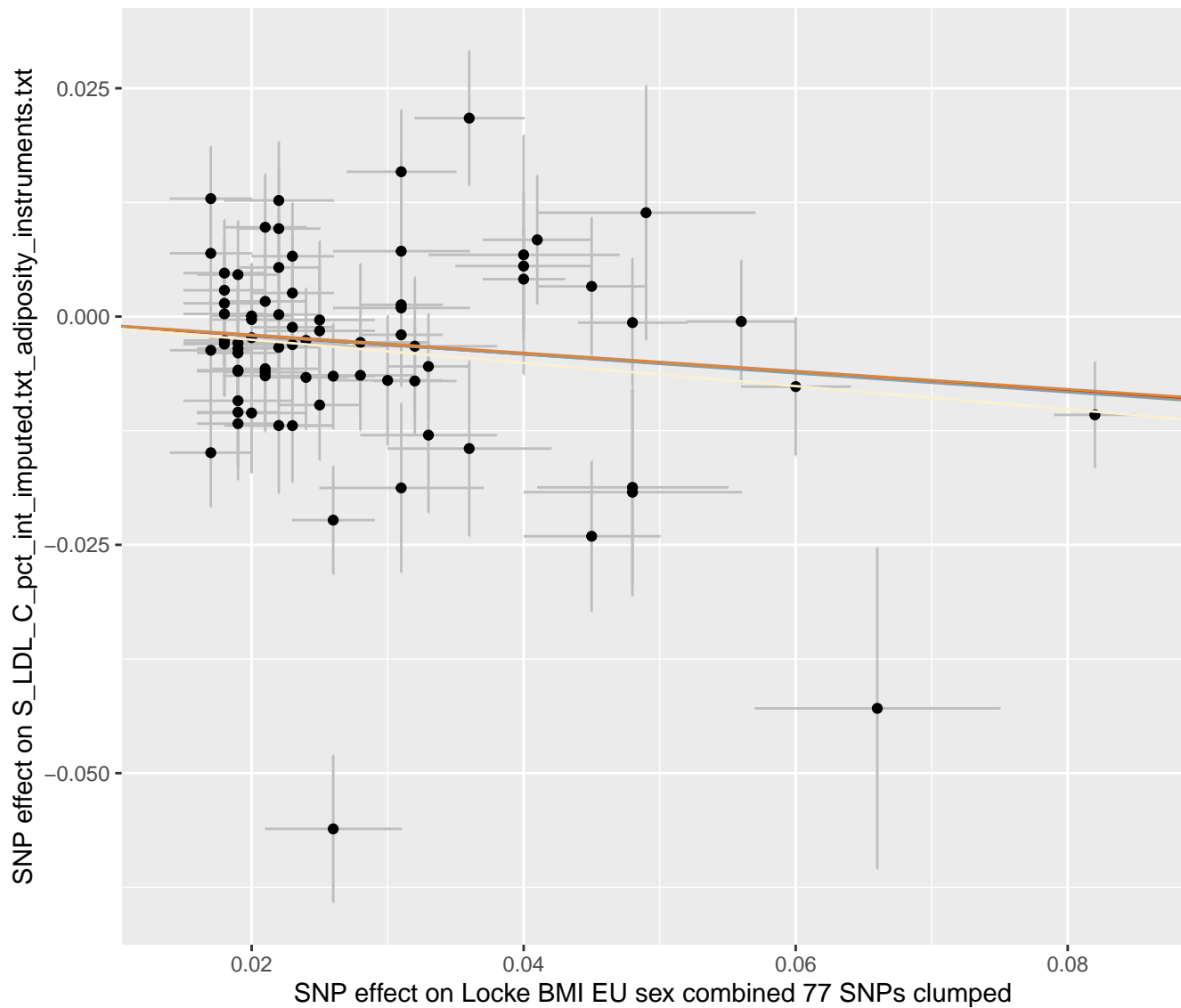


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test



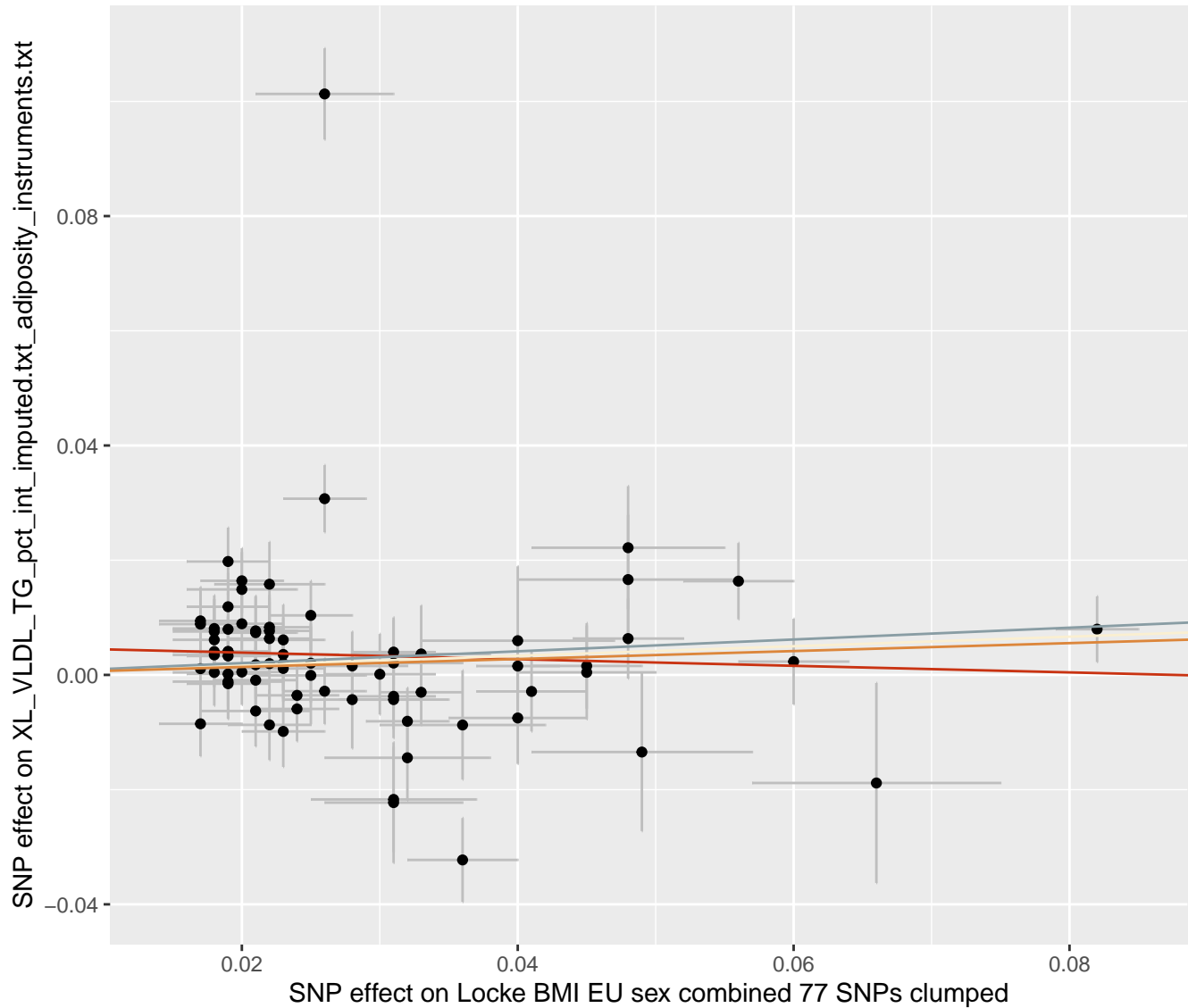
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test



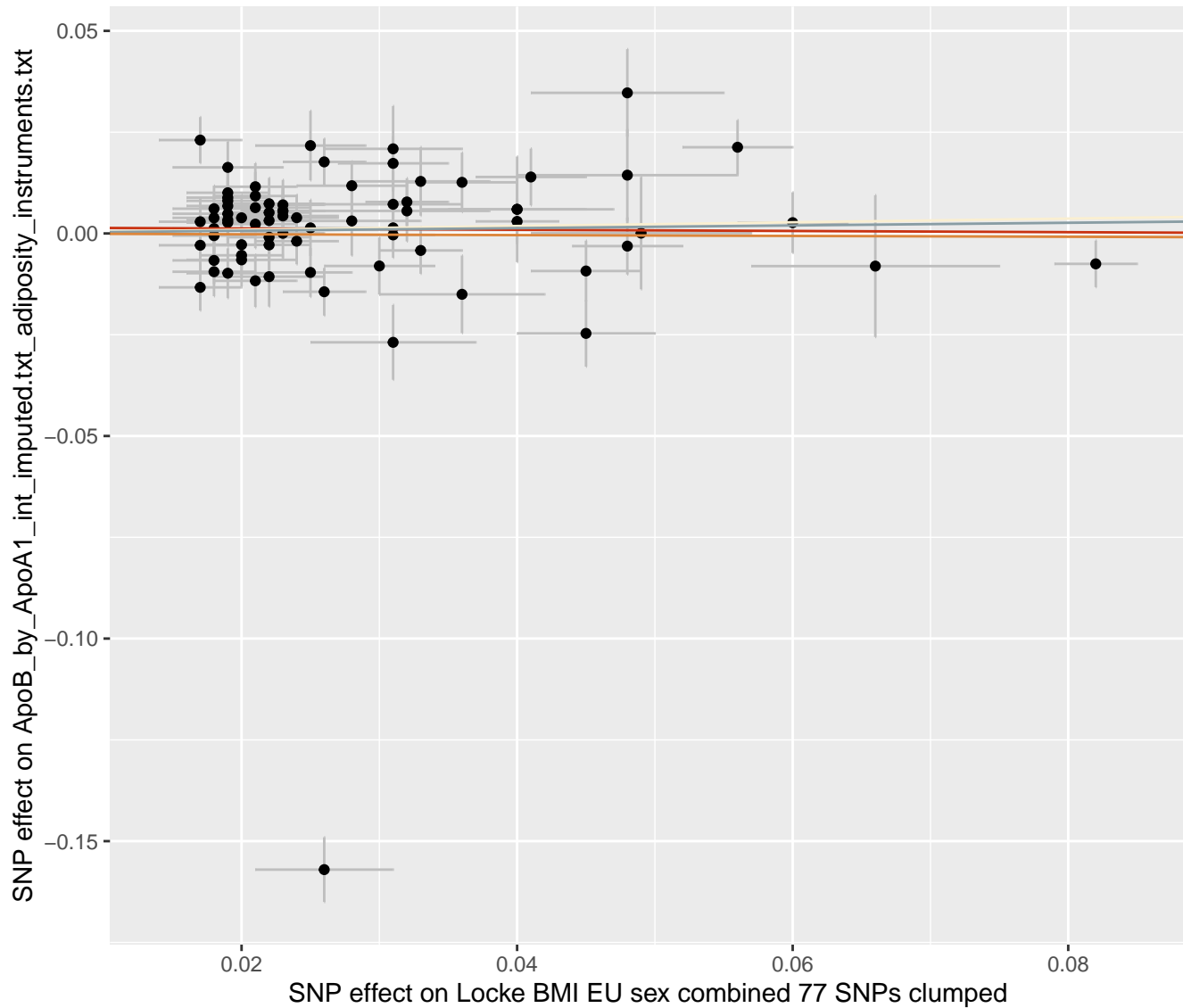
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test

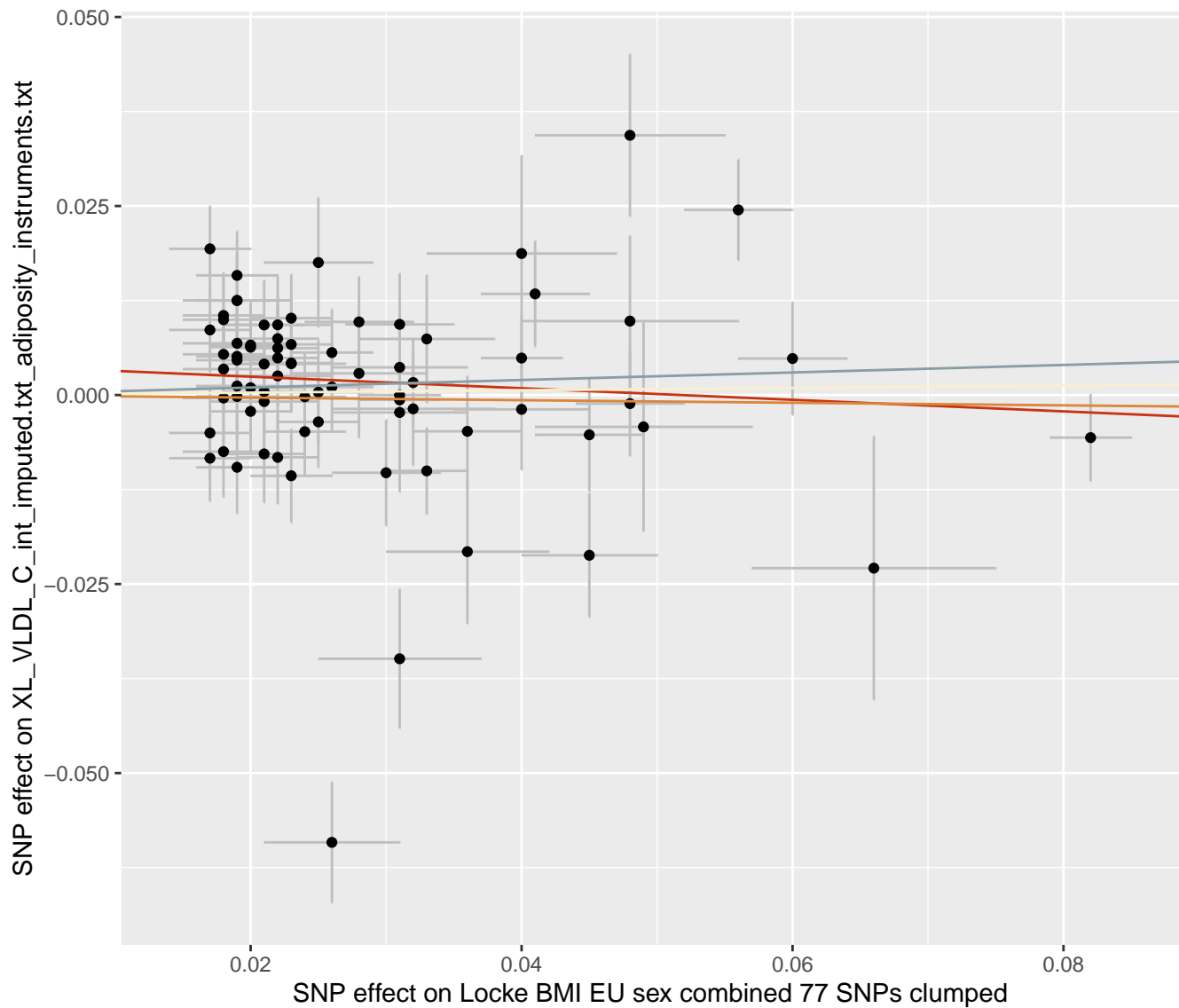


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode





# MR Test



Inverse variance weighted (multiplicative random effects)

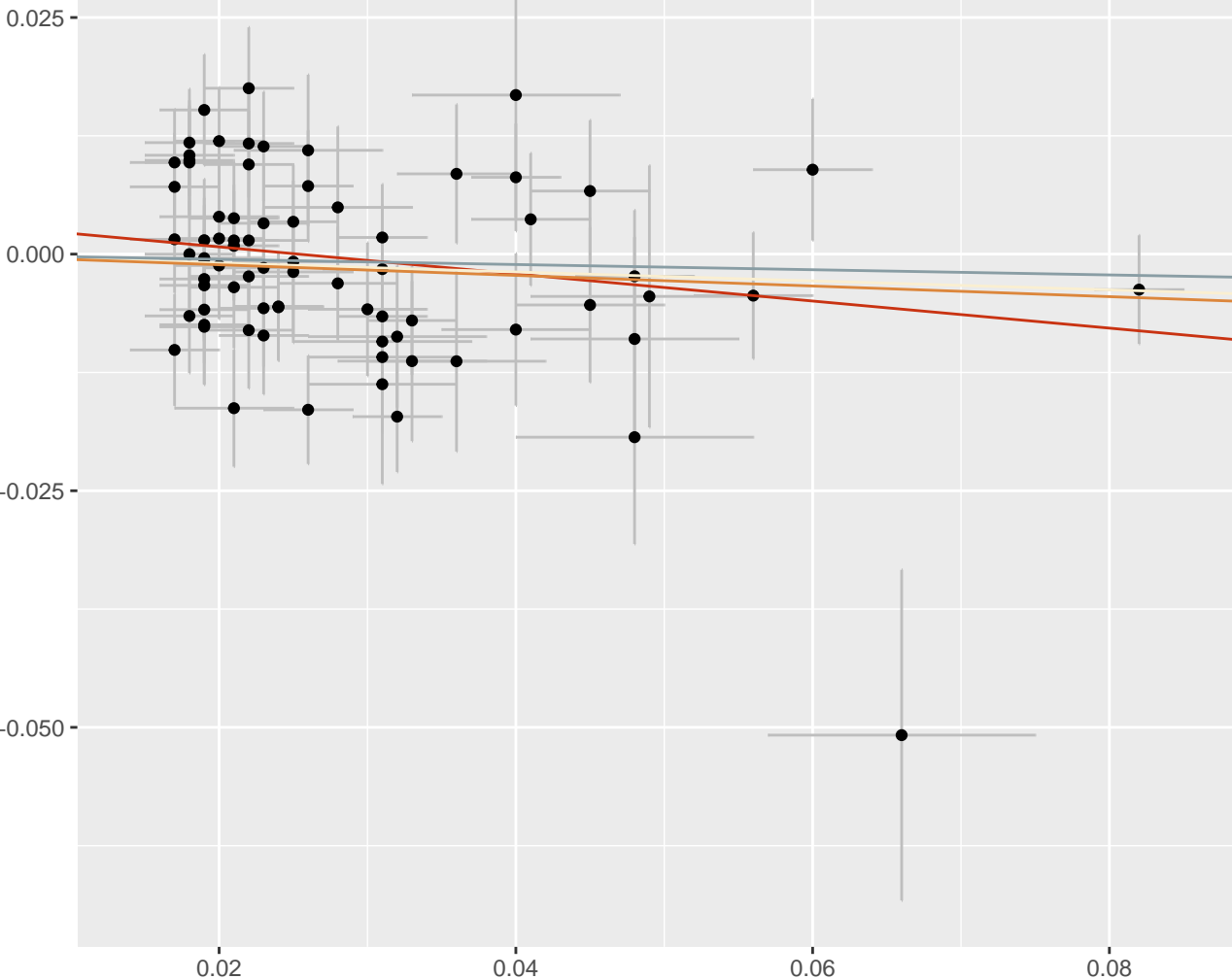
MR Egger



Weighted median

Weighted mode

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



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.025

0.000

-0.025

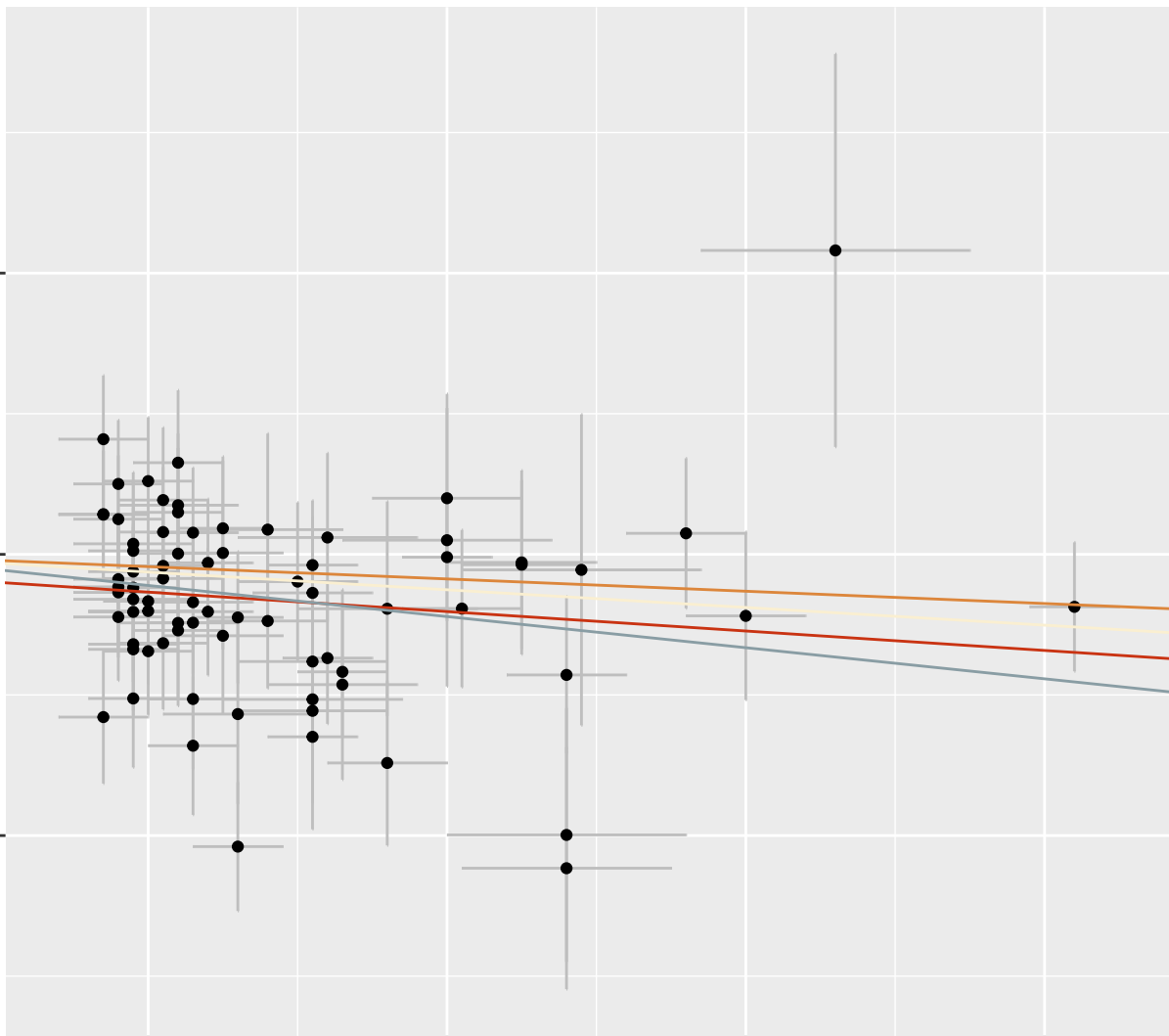
0.02

0.04

0.06

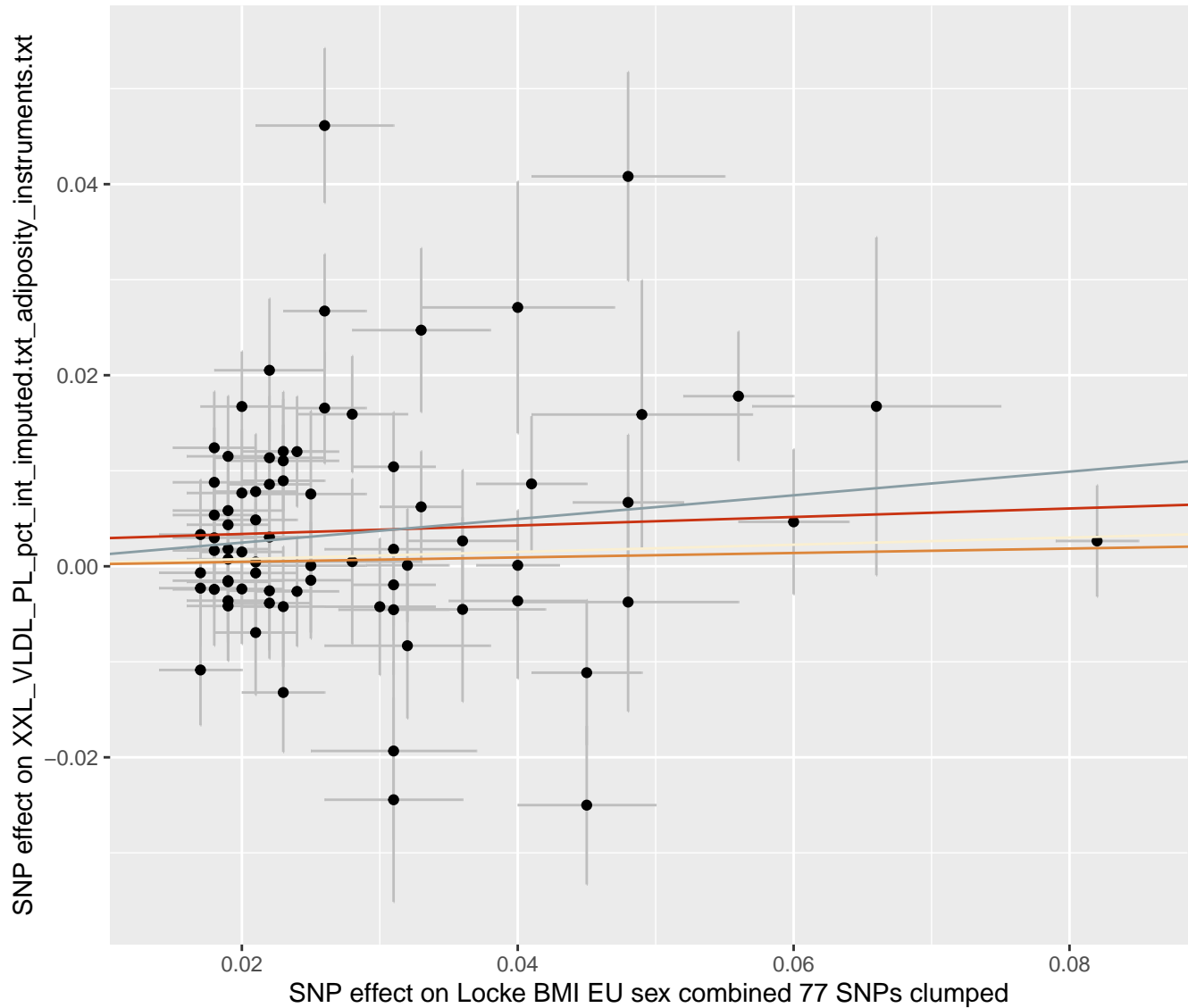
0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



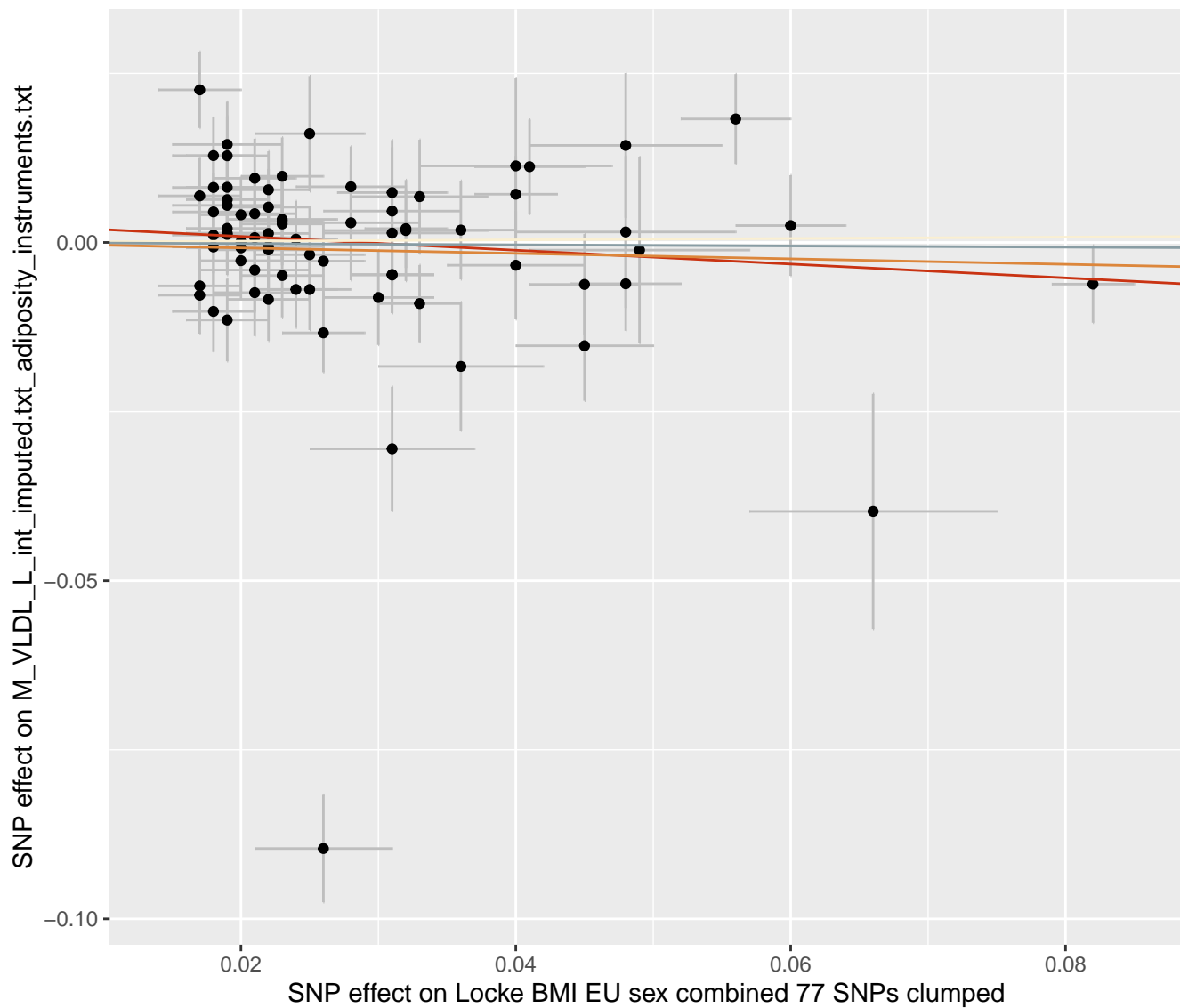
# MR Test

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



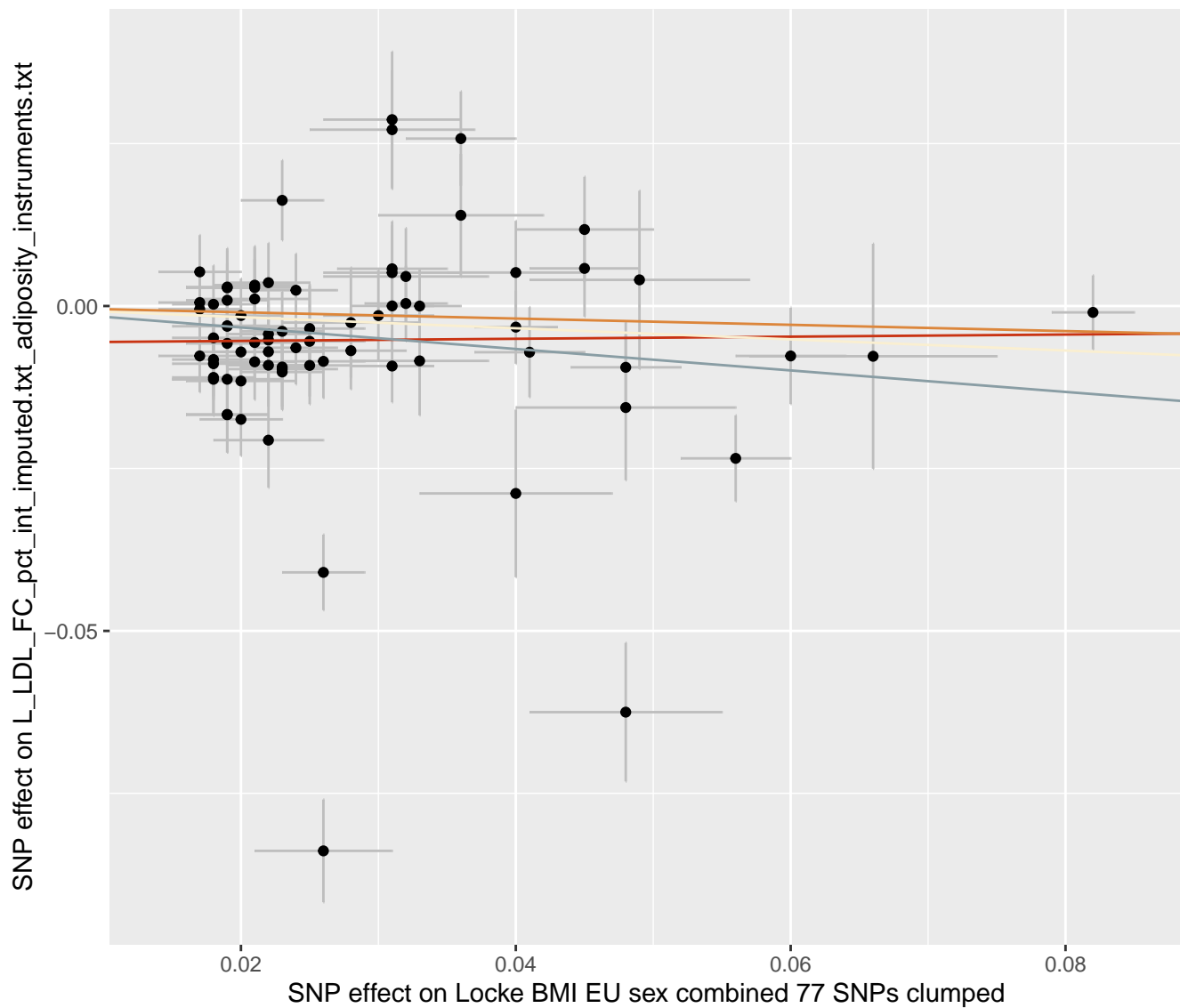
# MR Test

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



# MR Test

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



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.050  
0.025  
0.000  
-0.025  
-0.050

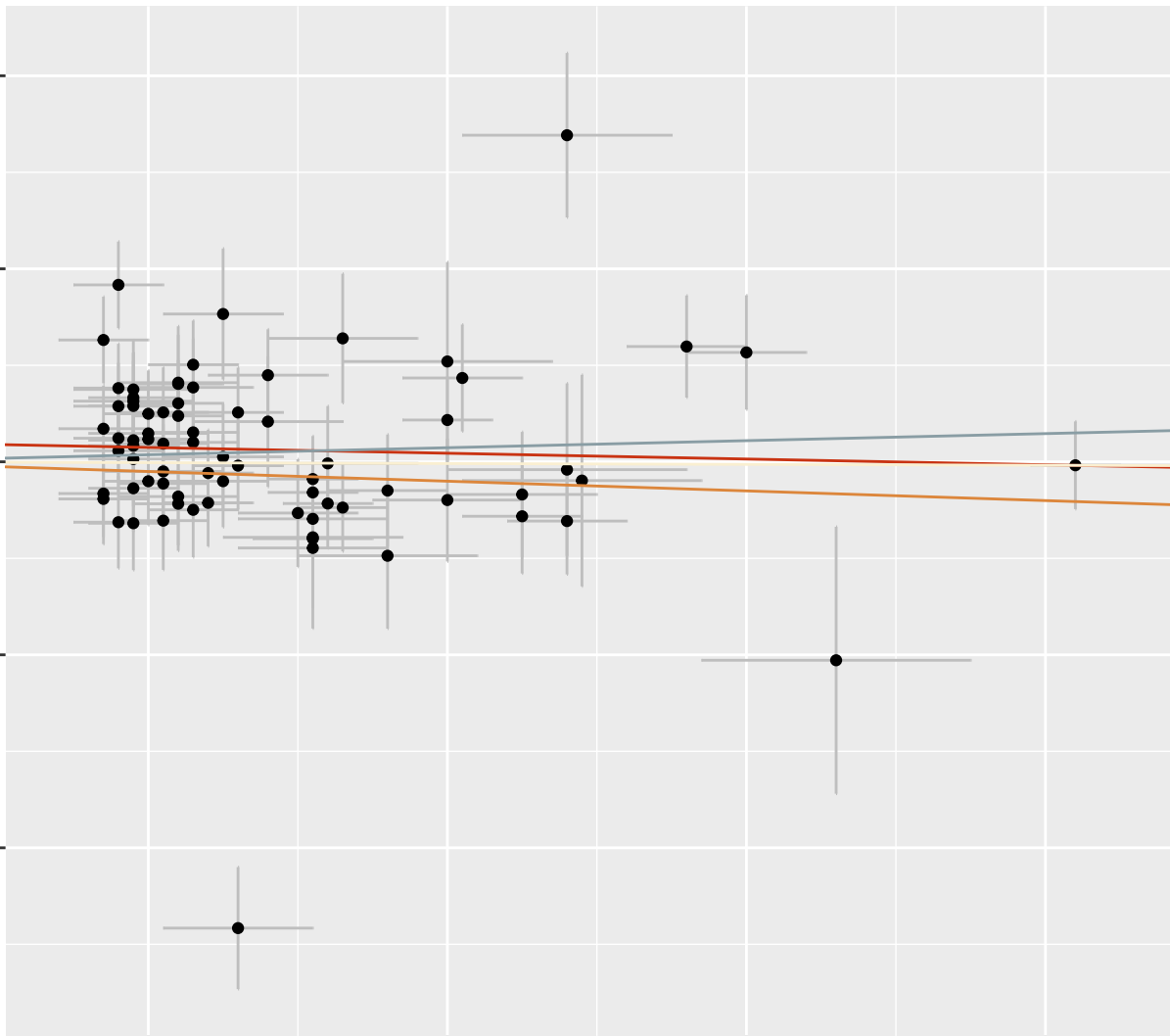
0.02

0.04

0.06

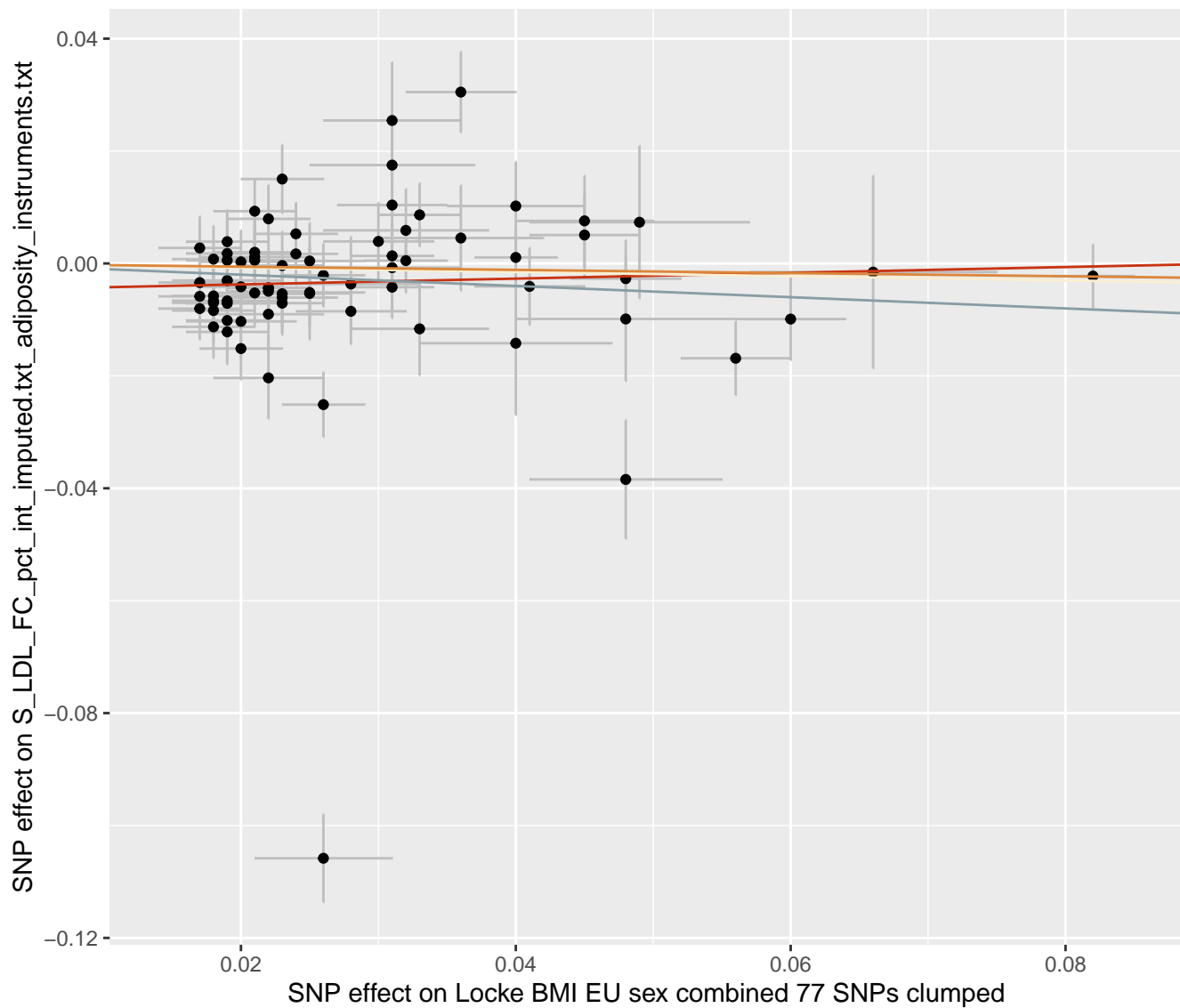
0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



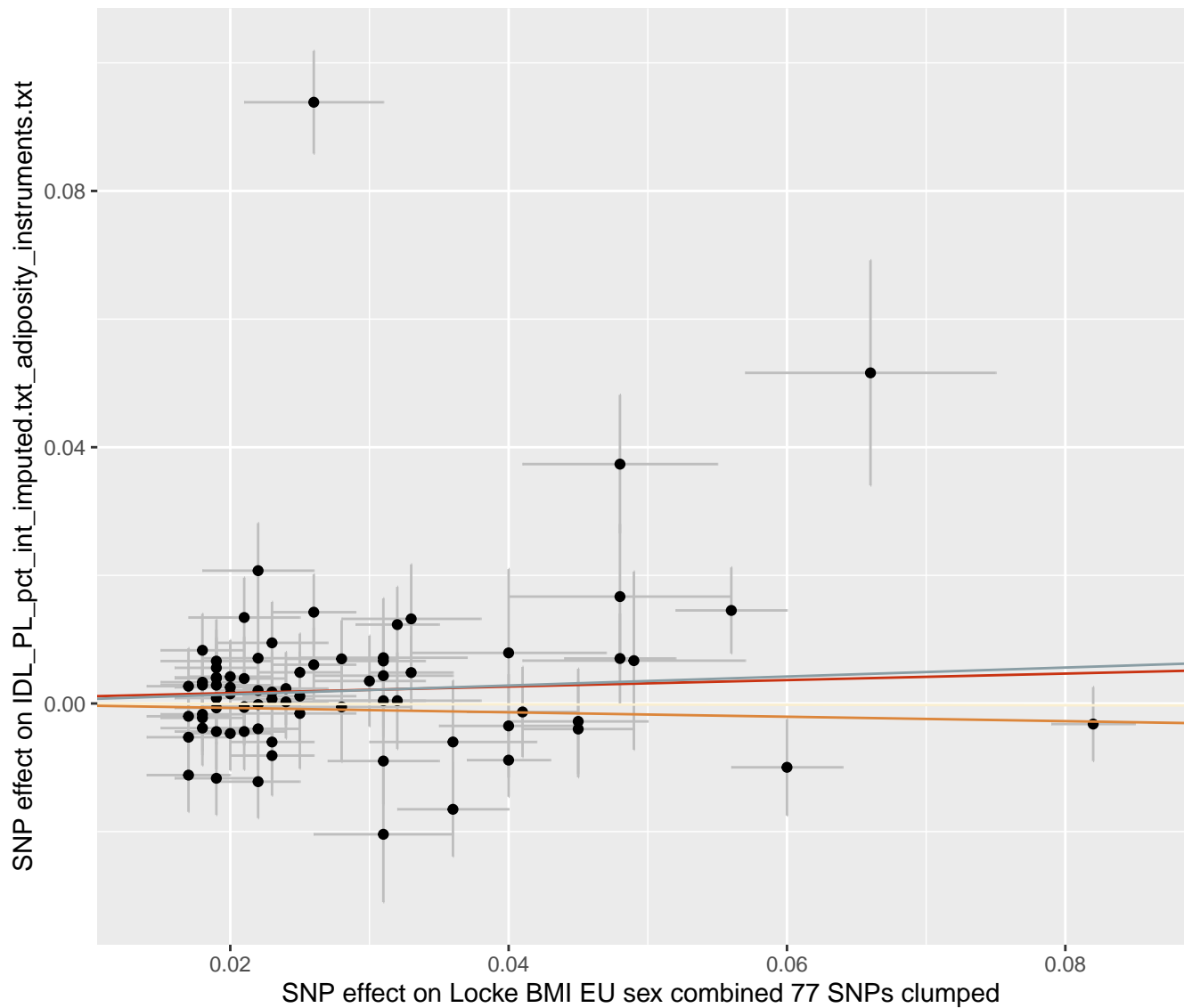
# MR Test

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



# MR Test

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





# MR Test



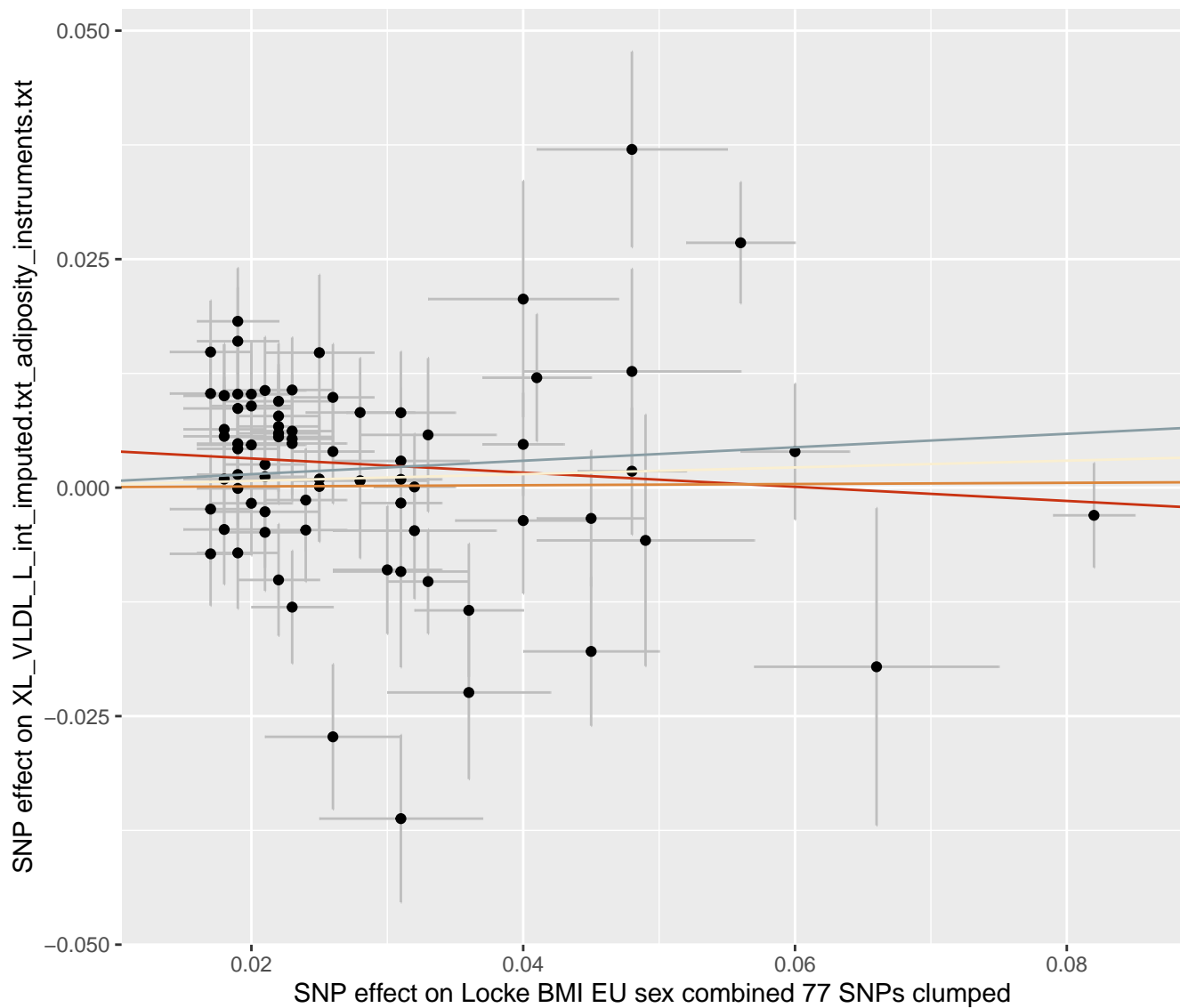
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.00

-0.05

-0.10

-0.15

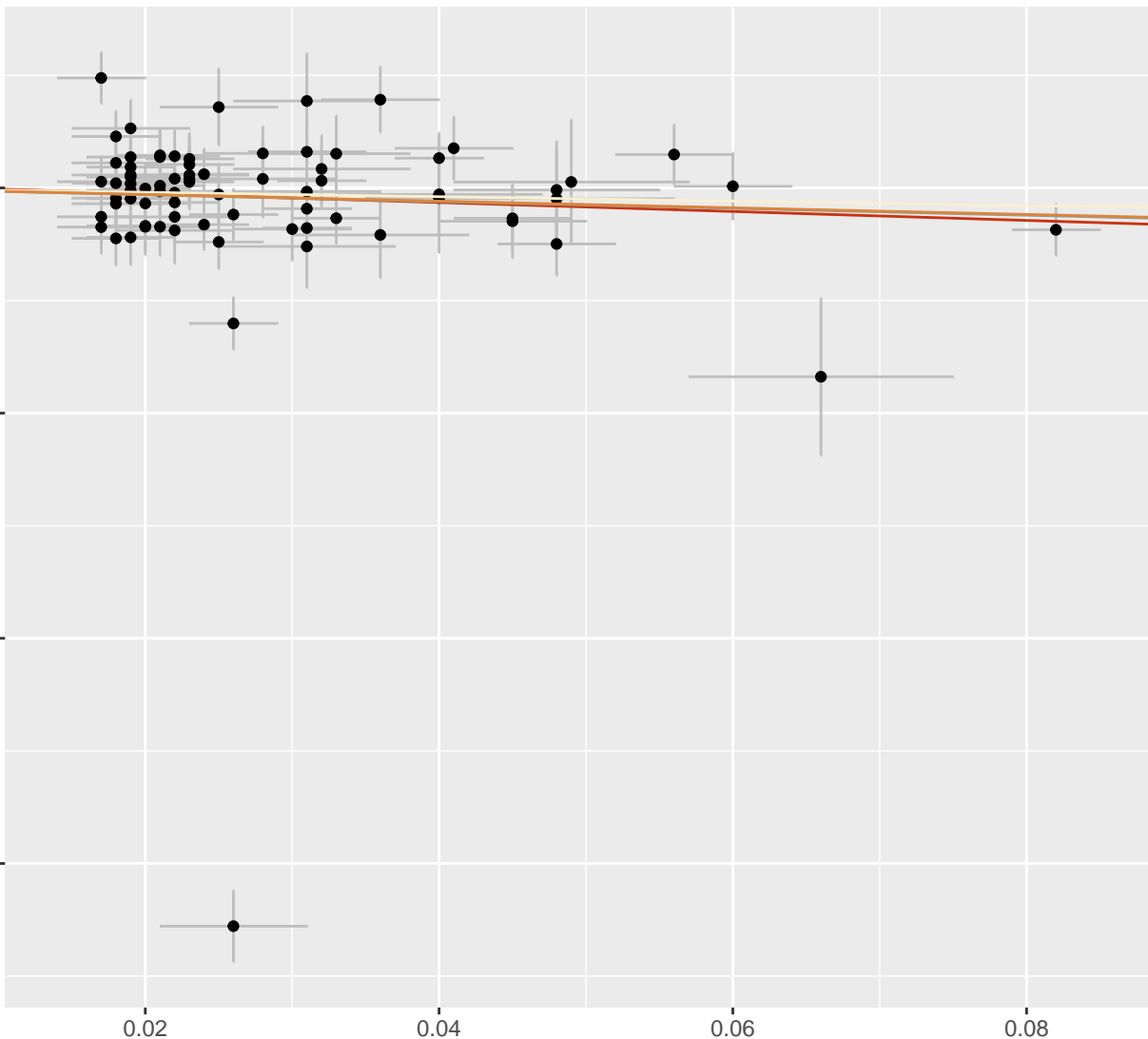
0.02

0.04

0.06

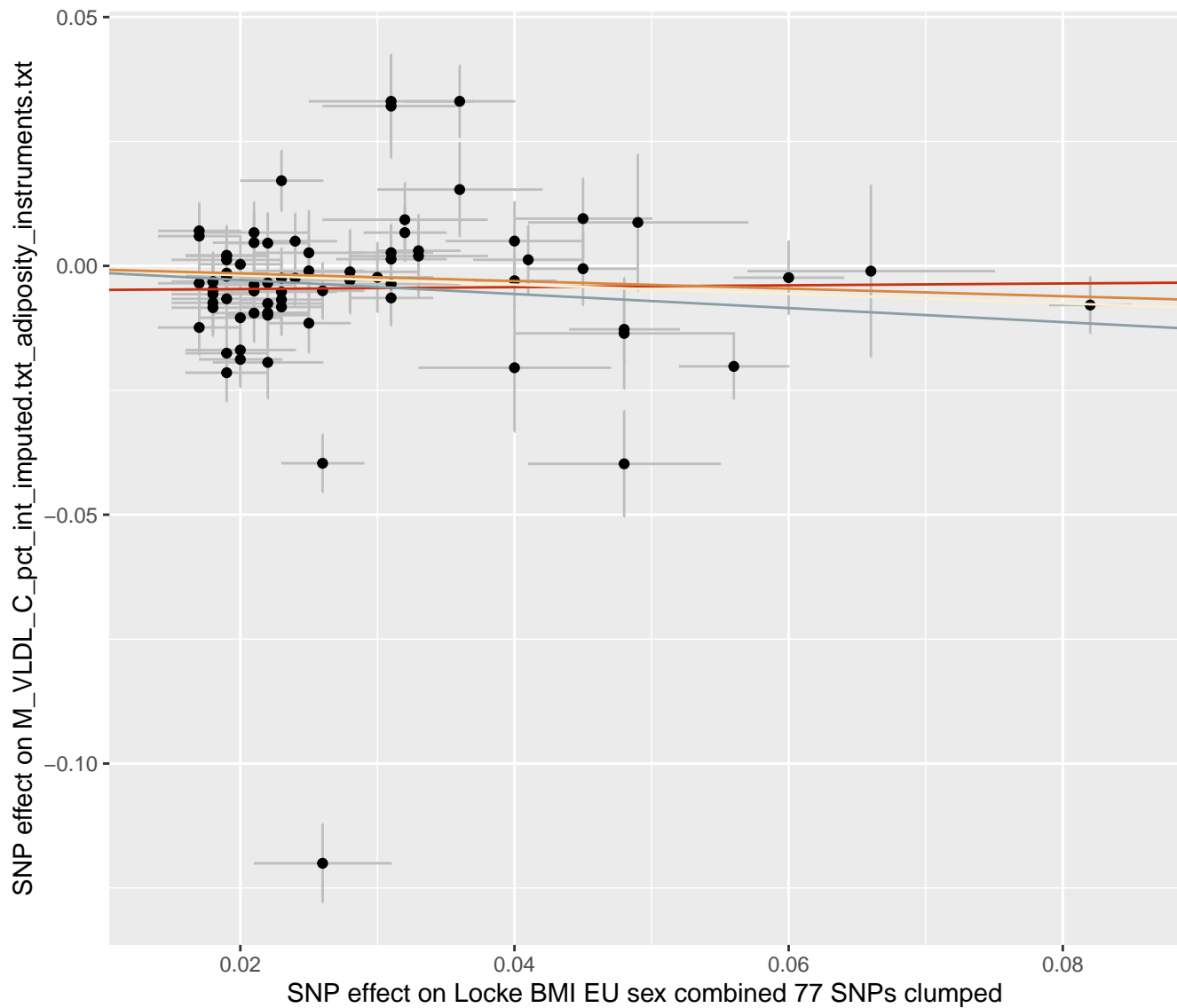
0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



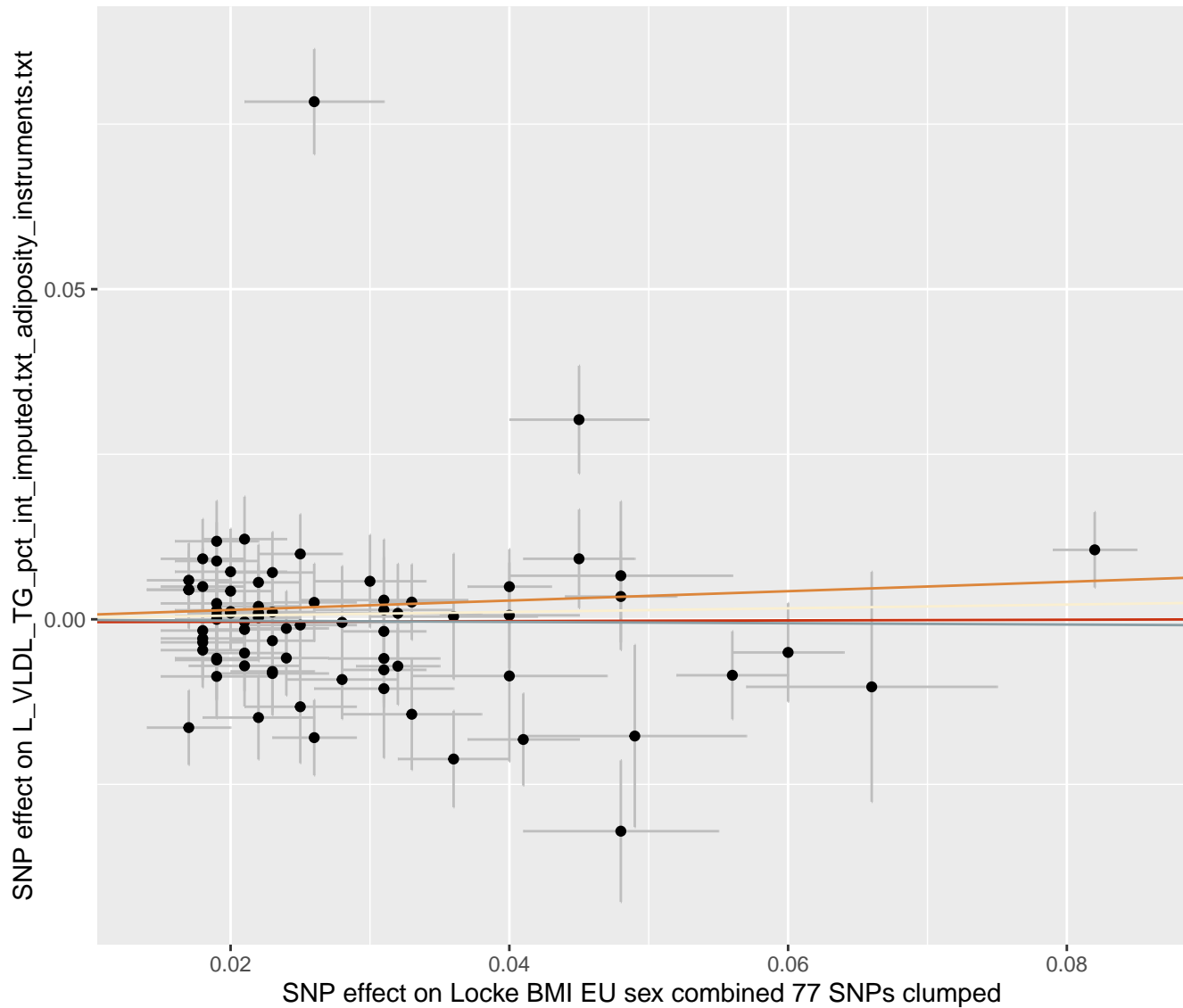
# MR Test

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



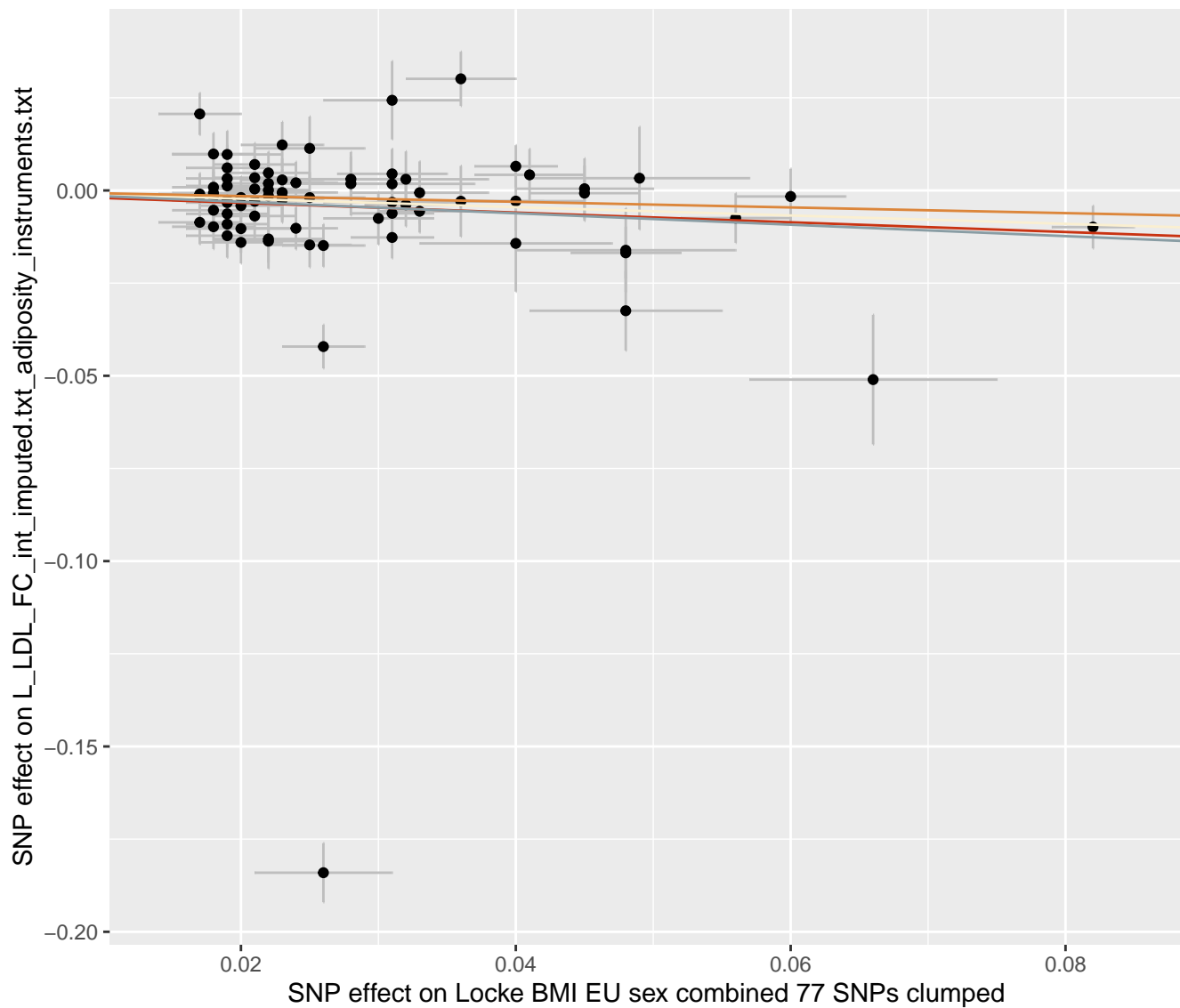
# MR Test

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



# MR Test

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



# MR Test



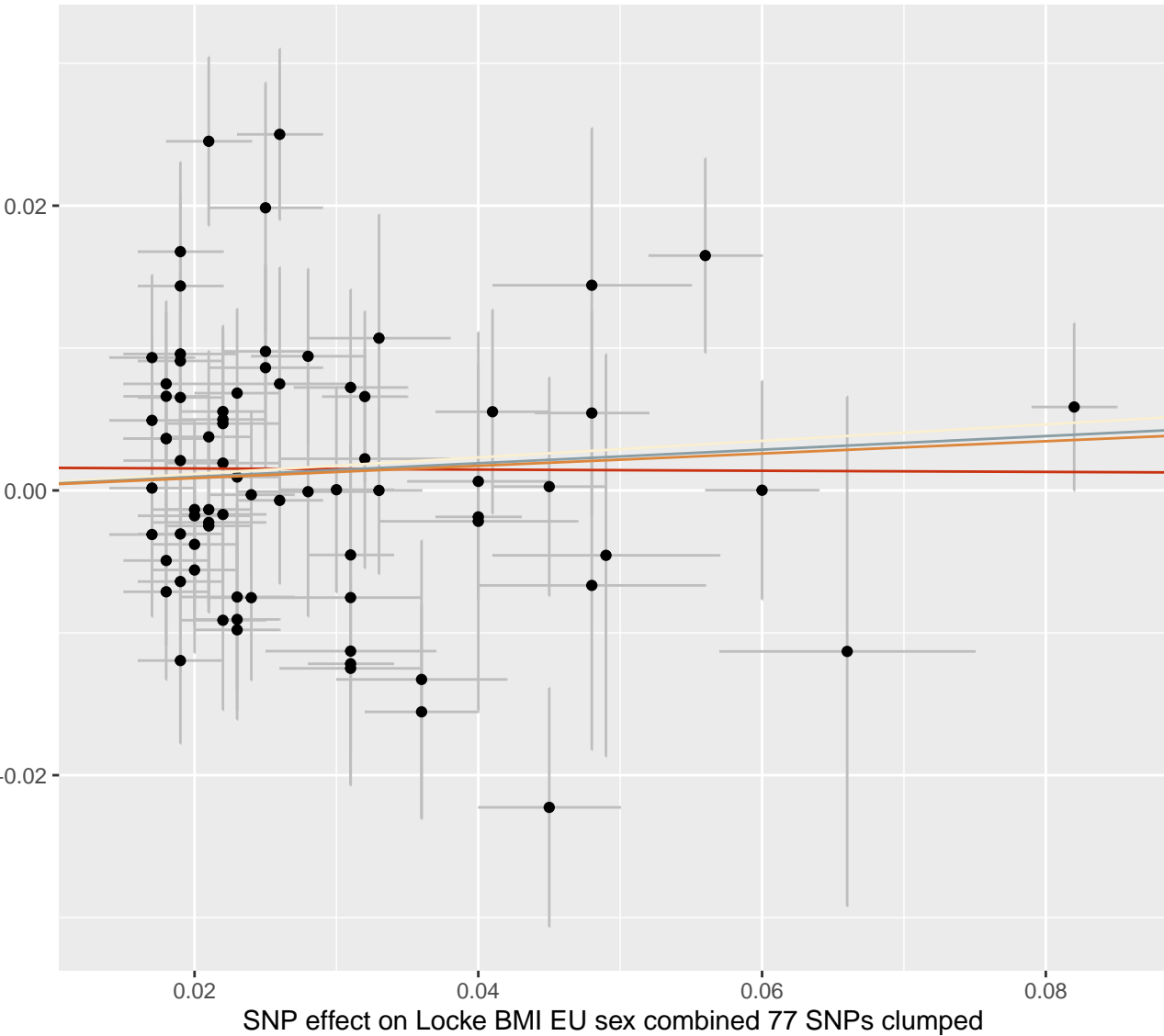
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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



# MR Test



Inverse variance weighted (multiplicative random effects)

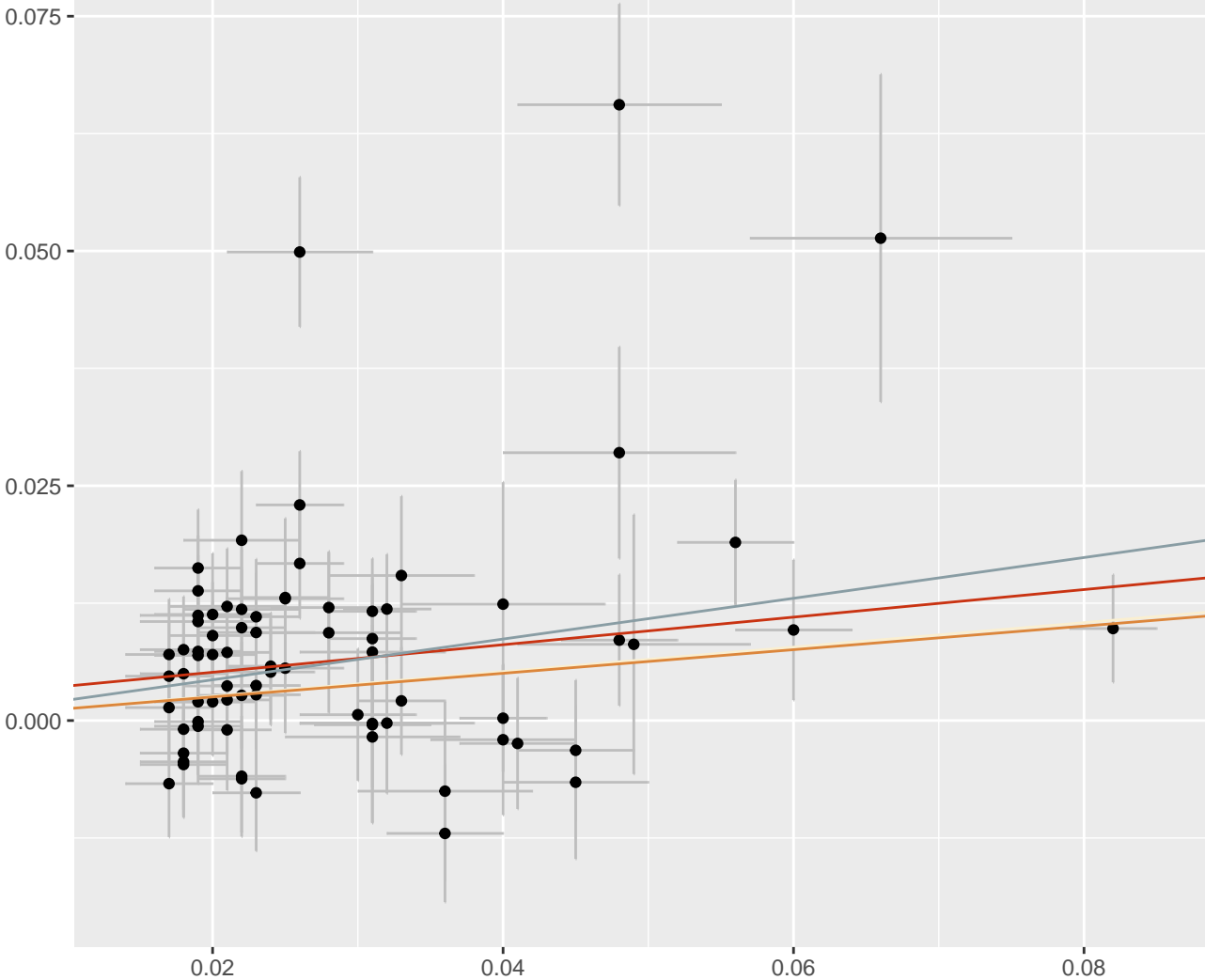
MR Egger



Weighted median

Weighted mode

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



# MR Test



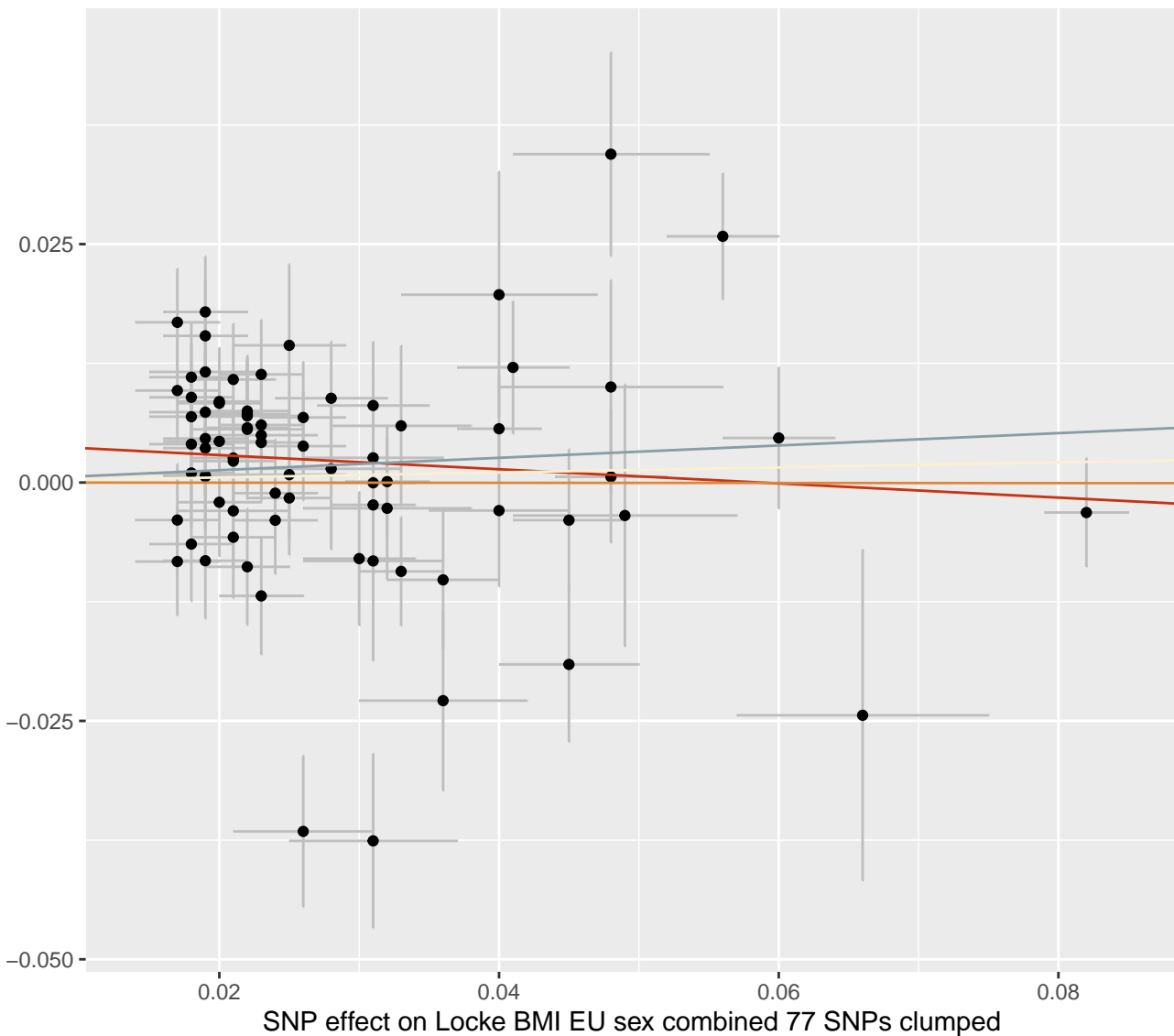
Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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





# MR Test



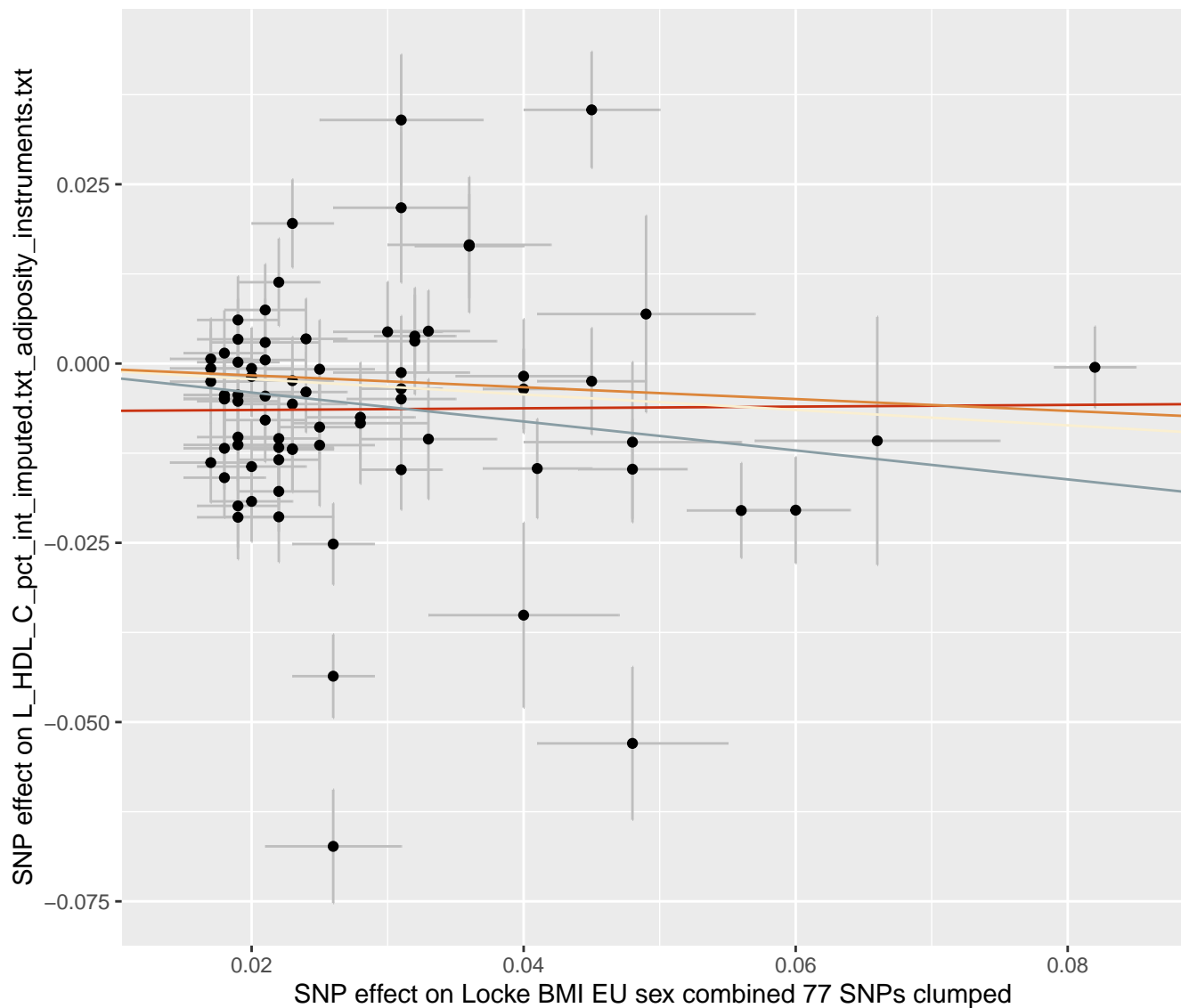
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.00

-0.05

-0.10

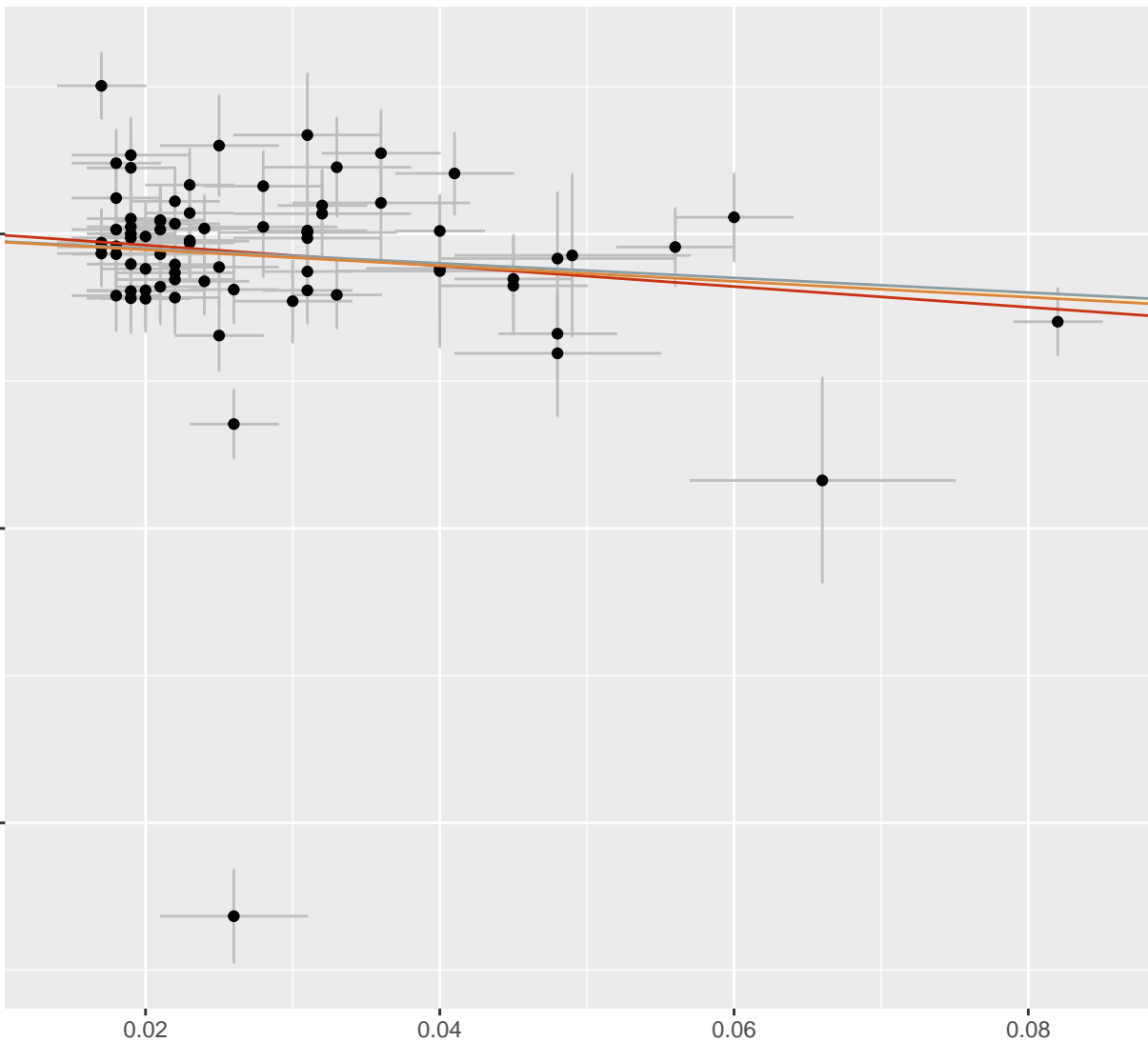
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# 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

0.03  
0.00  
-0.03  
-0.06

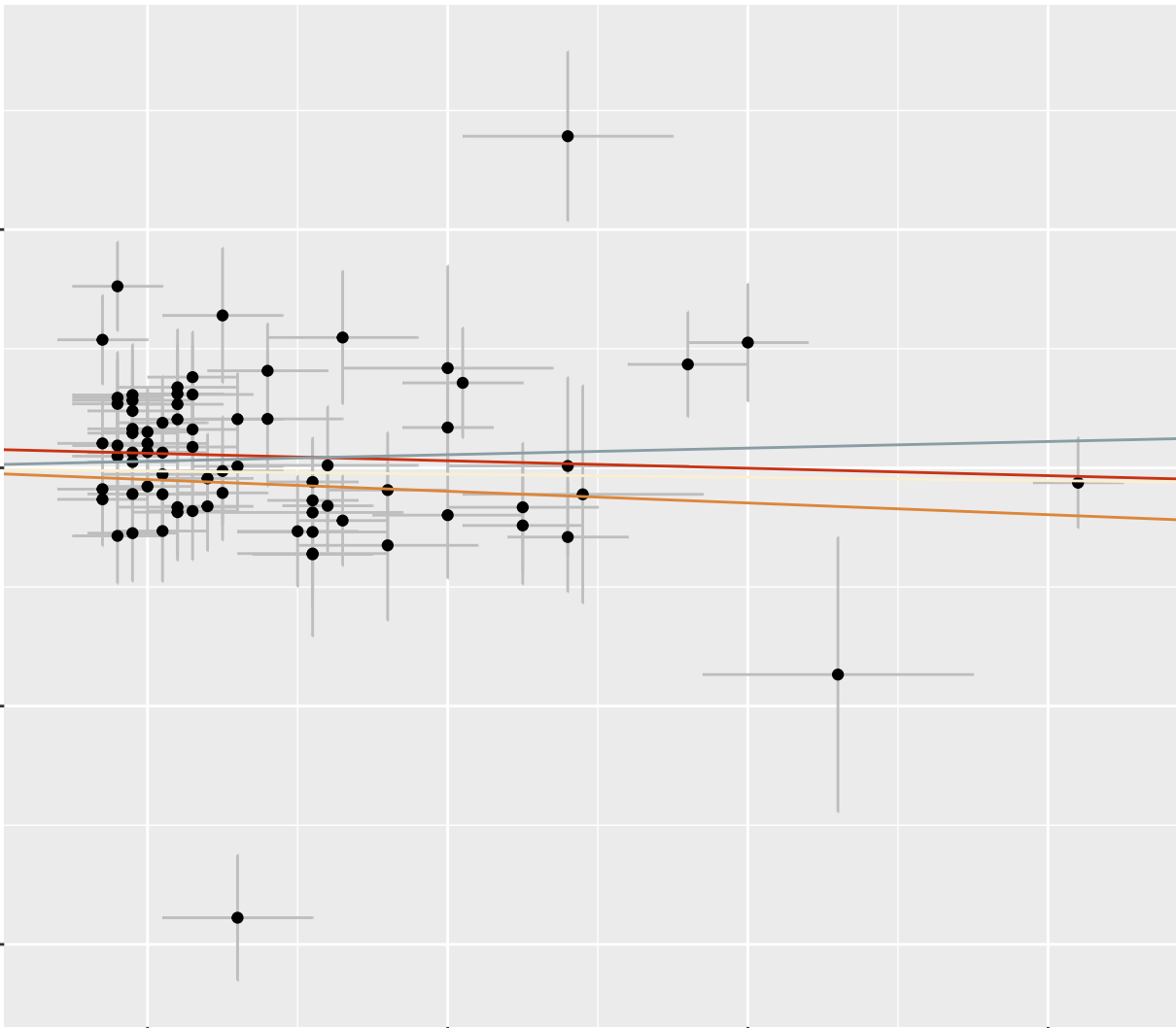
0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped

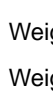


# MR Test



Inverse variance weighted (multiplicative random effects)

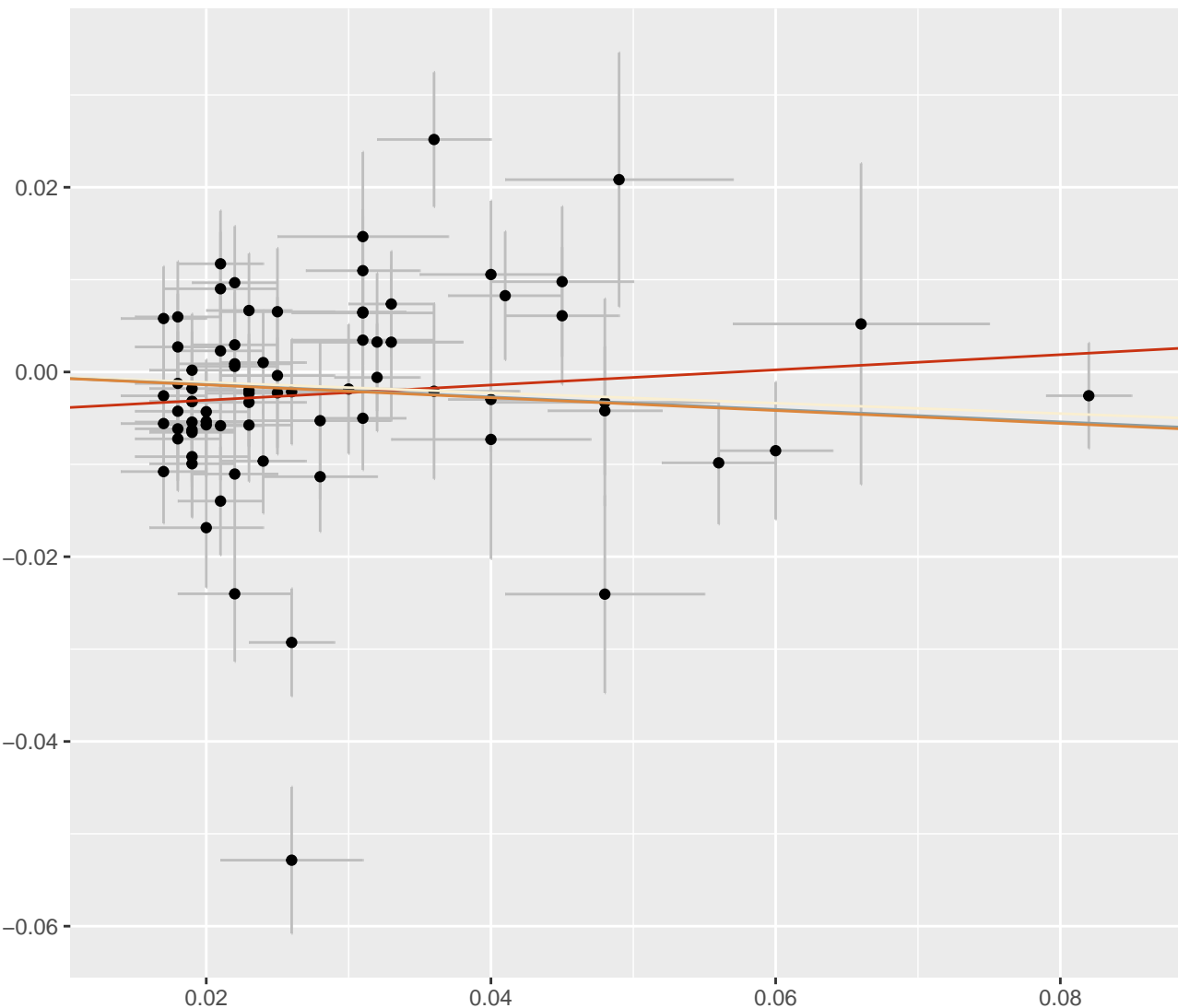
MR Egger



Weighted median

Weighted mode

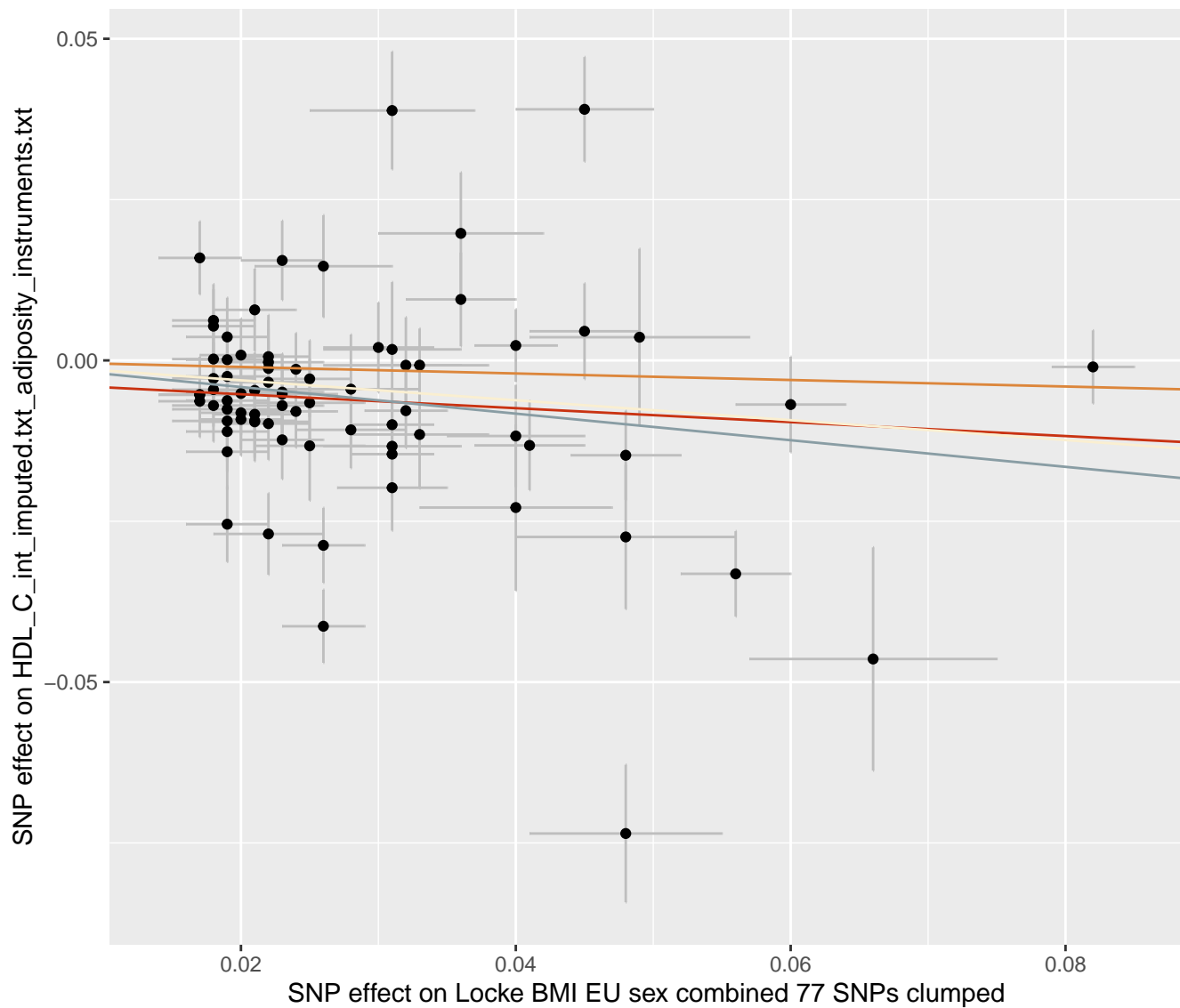
SNP effect on IDL\_FC\_pct\_int\_imputed.txt\_adiposity\_instruments.txt



SNP effect on Locke BMI EU sex combined 77 SNPs clumped

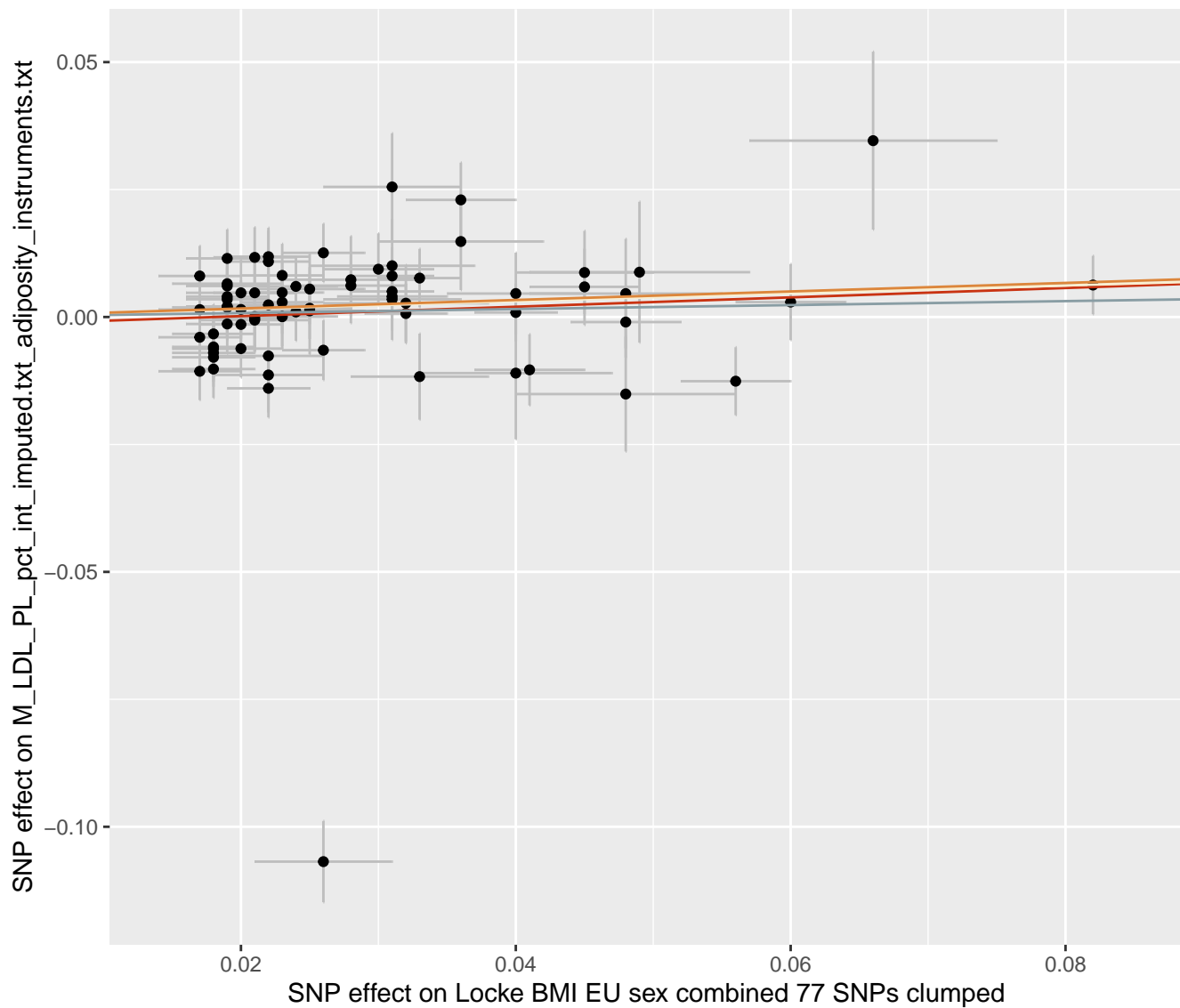
# MR Test

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



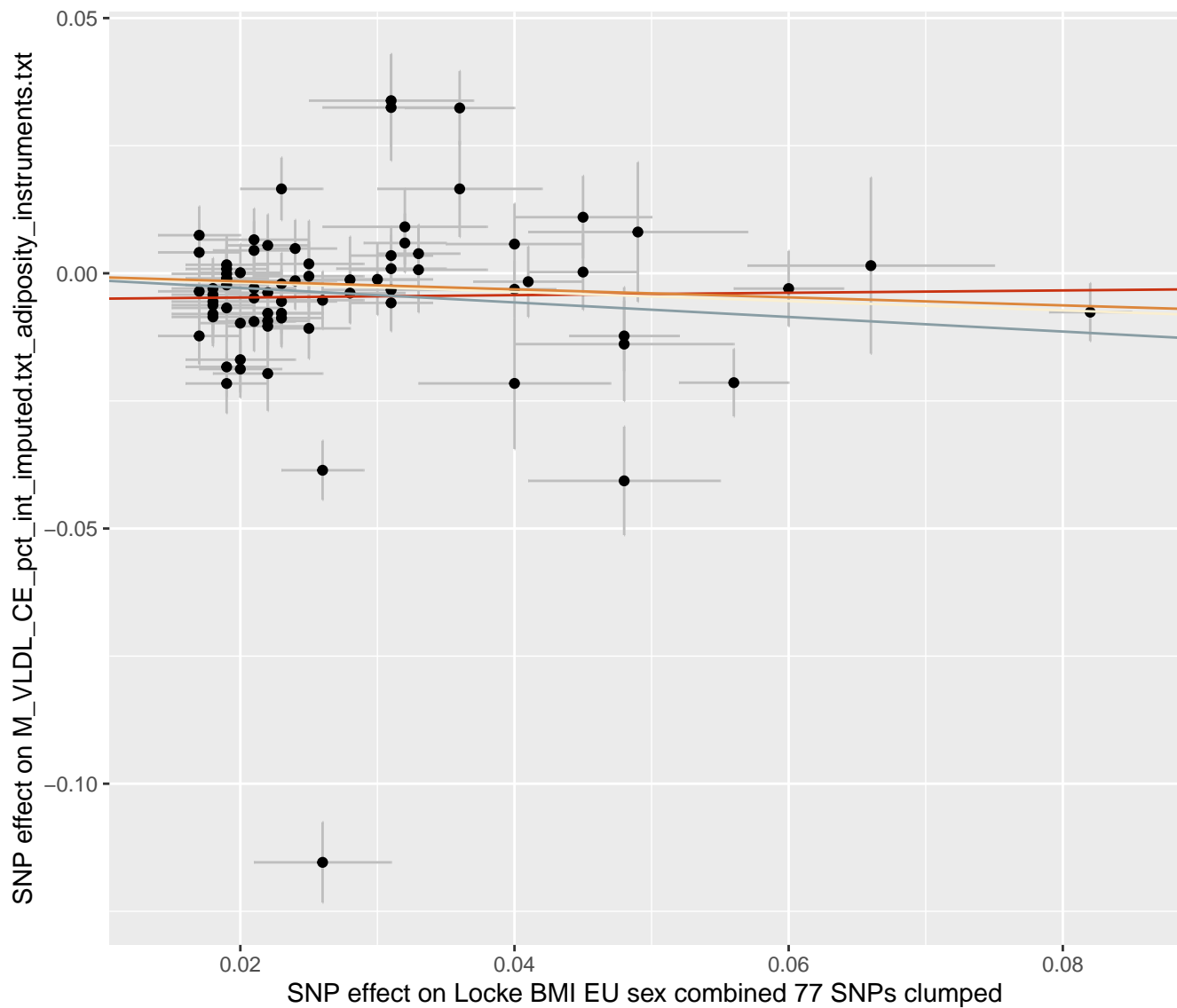
# MR Test

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



# MR Test

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



# MR Test



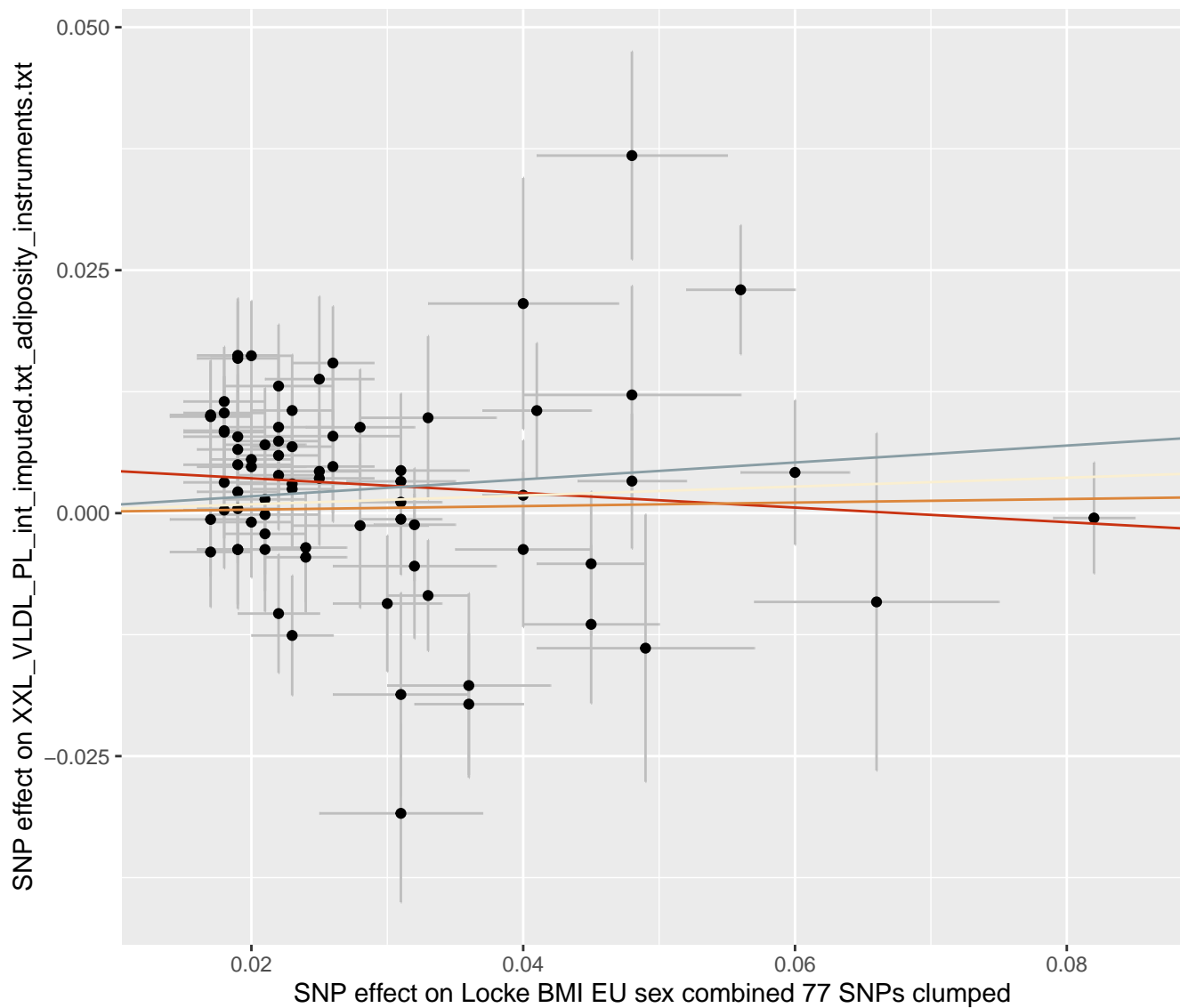
Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

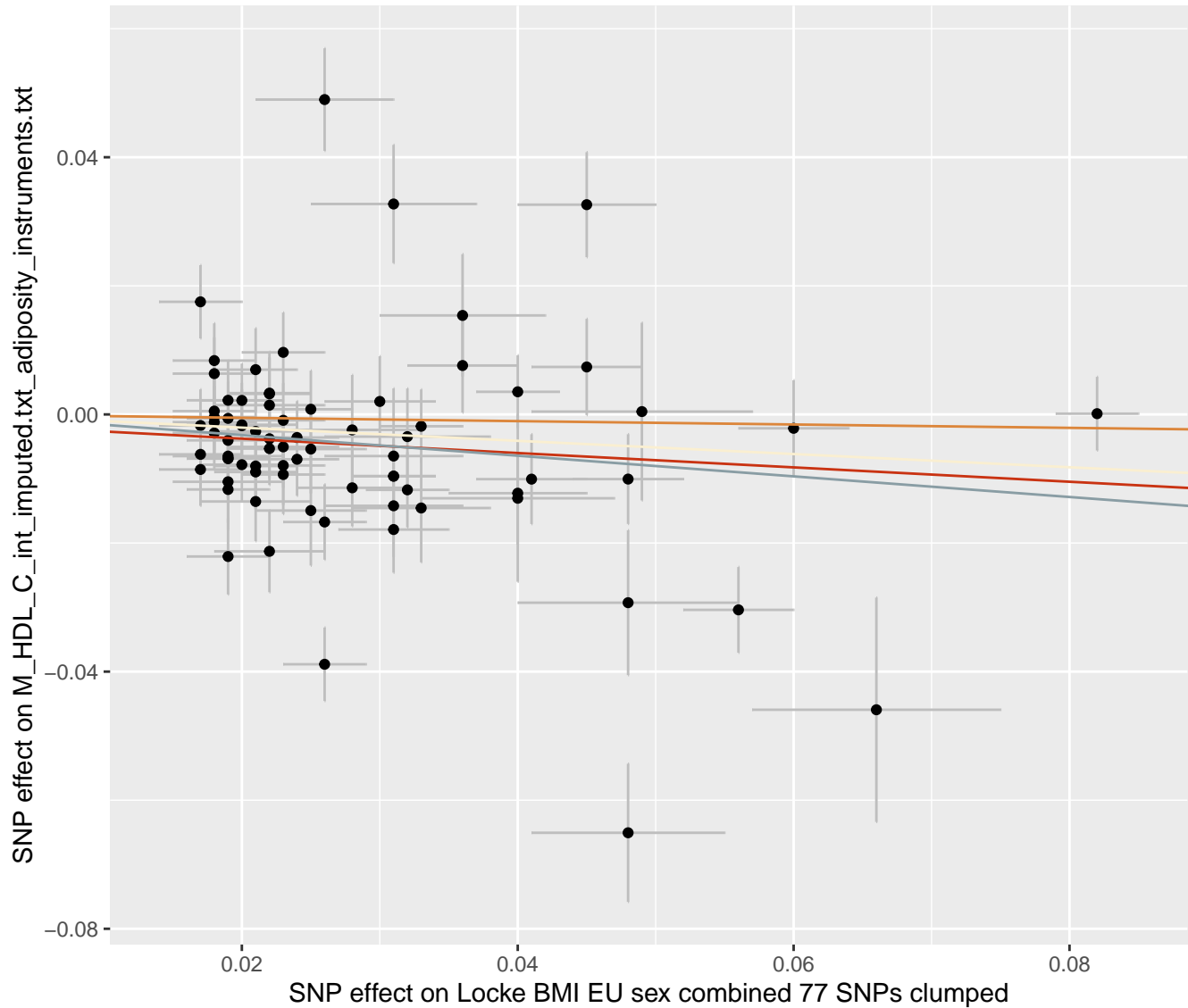
Weighted mode





# MR Test

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



# MR Test

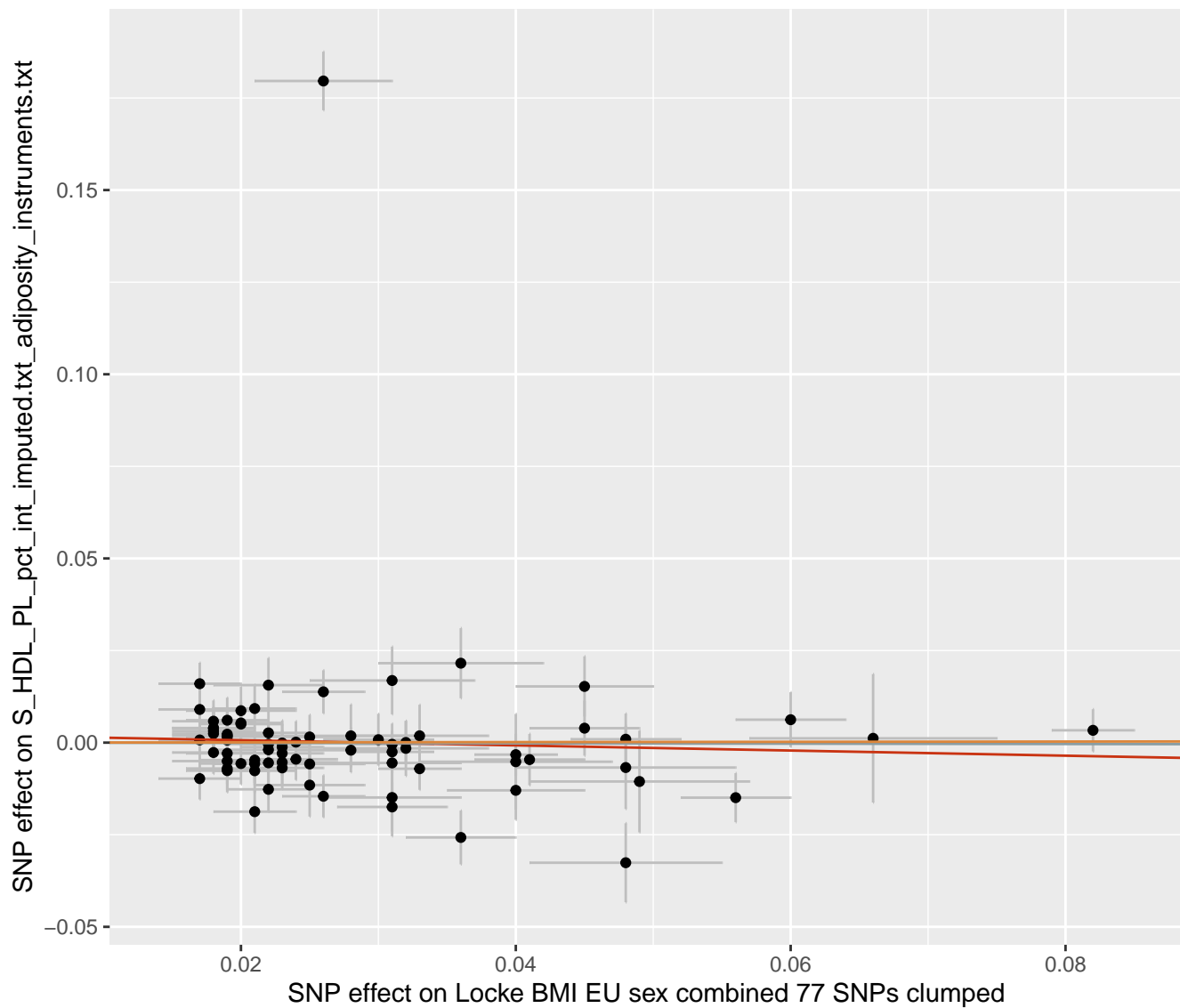


Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode



# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger



Weighted median

Weighted mode

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

0.00

-0.05

-0.10

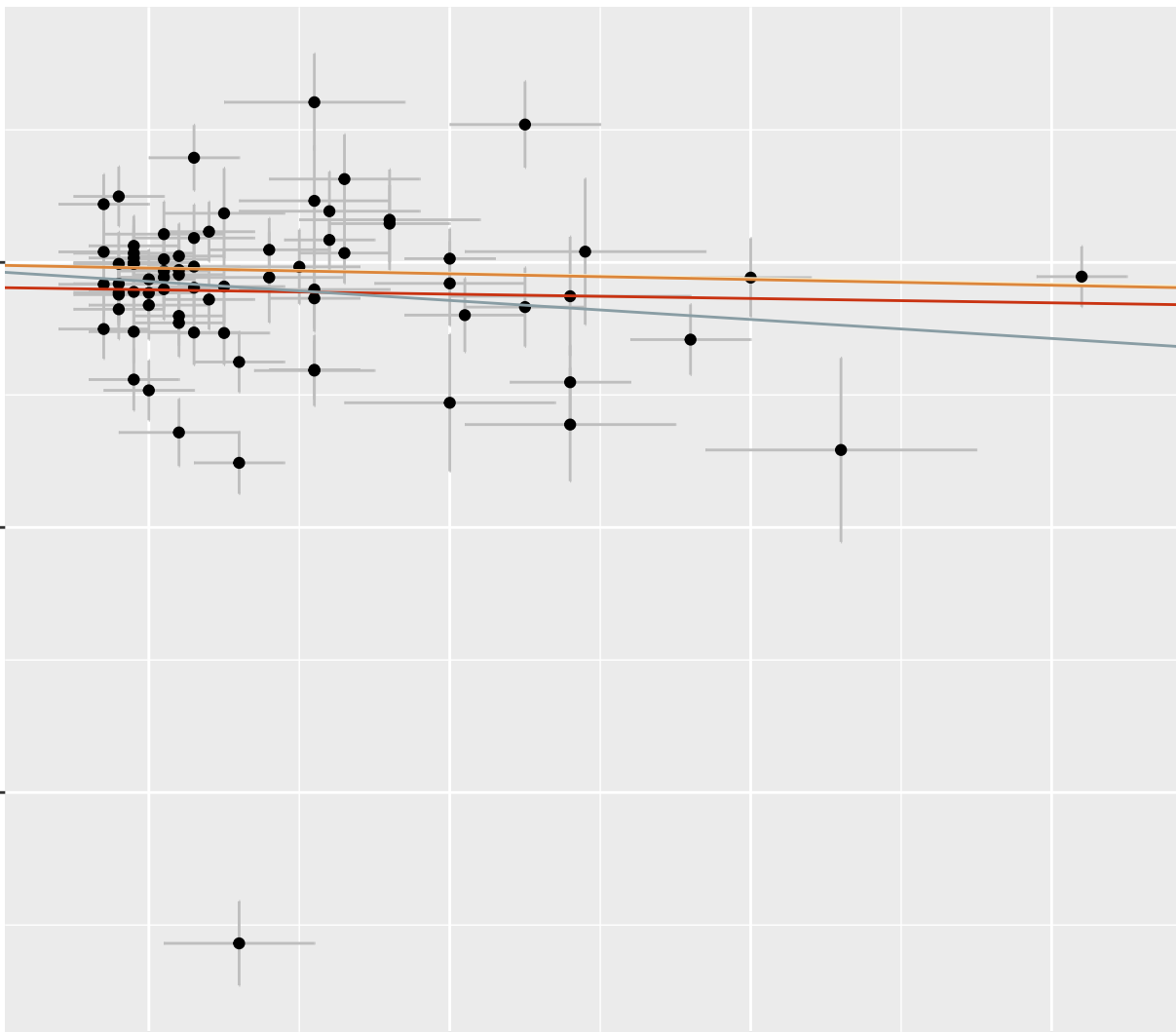
0.02

0.04

0.06

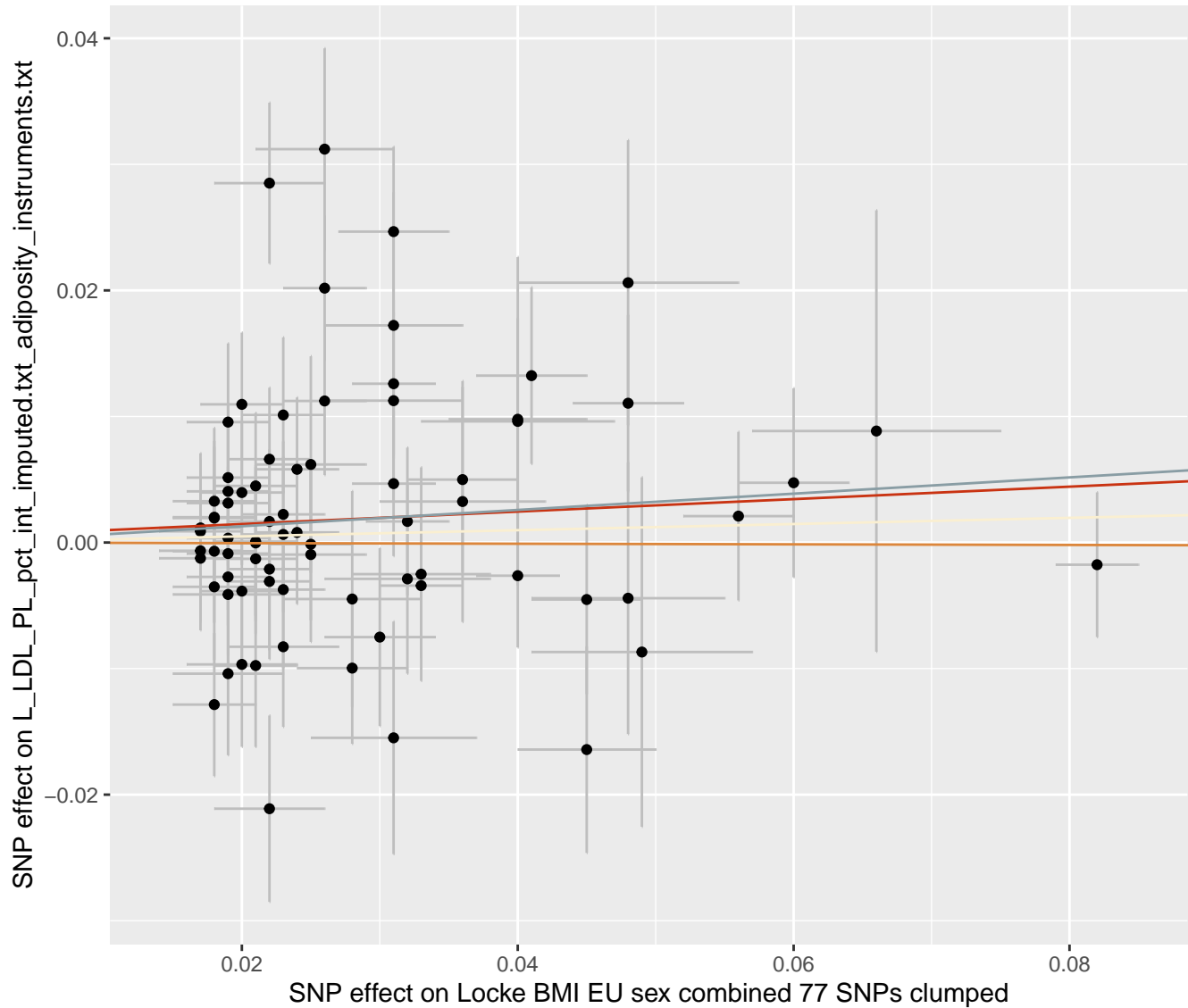
0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped



# MR Test

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



# MR Test



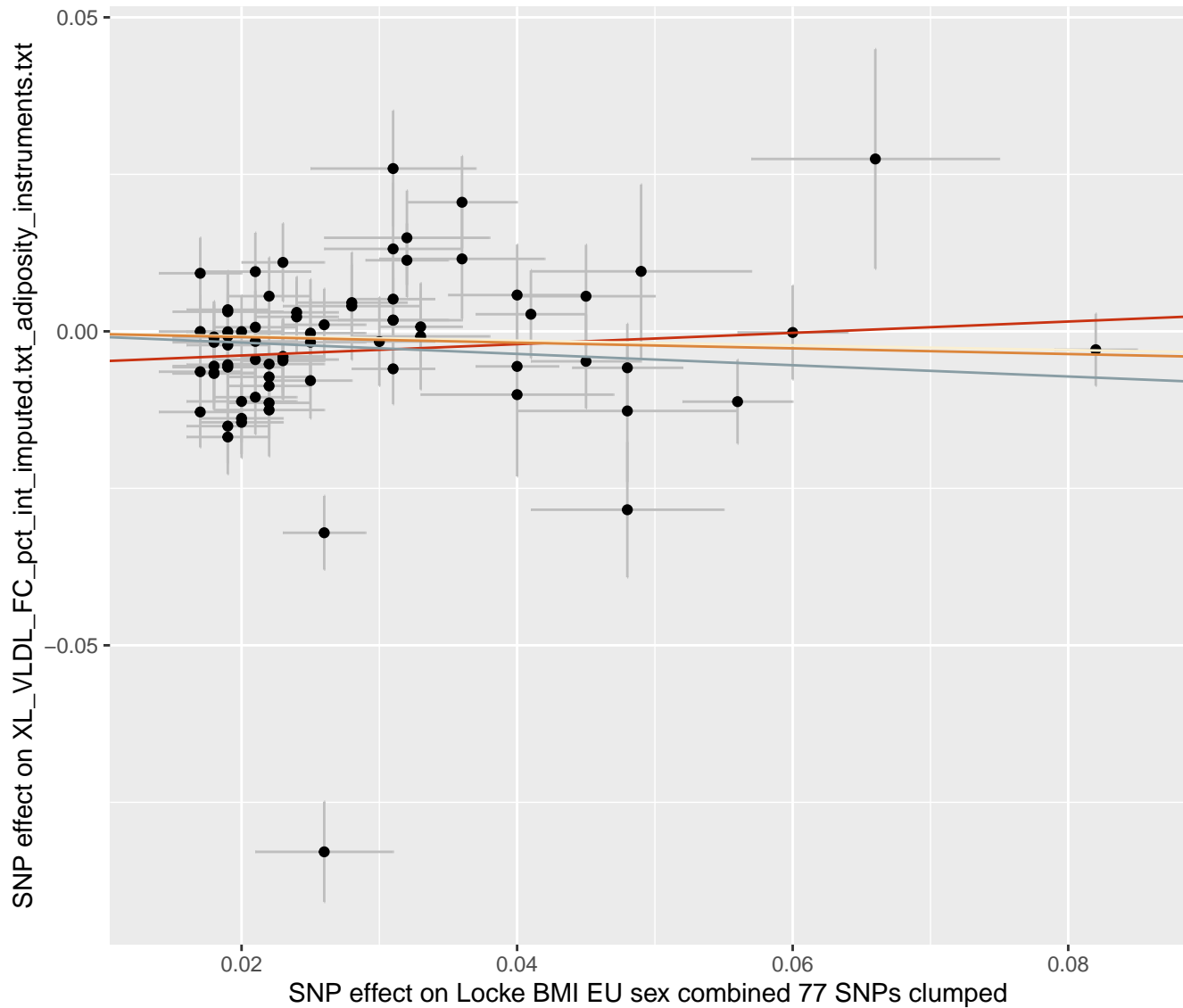
Inverse variance weighted (multiplicative random effects)

MR Egger



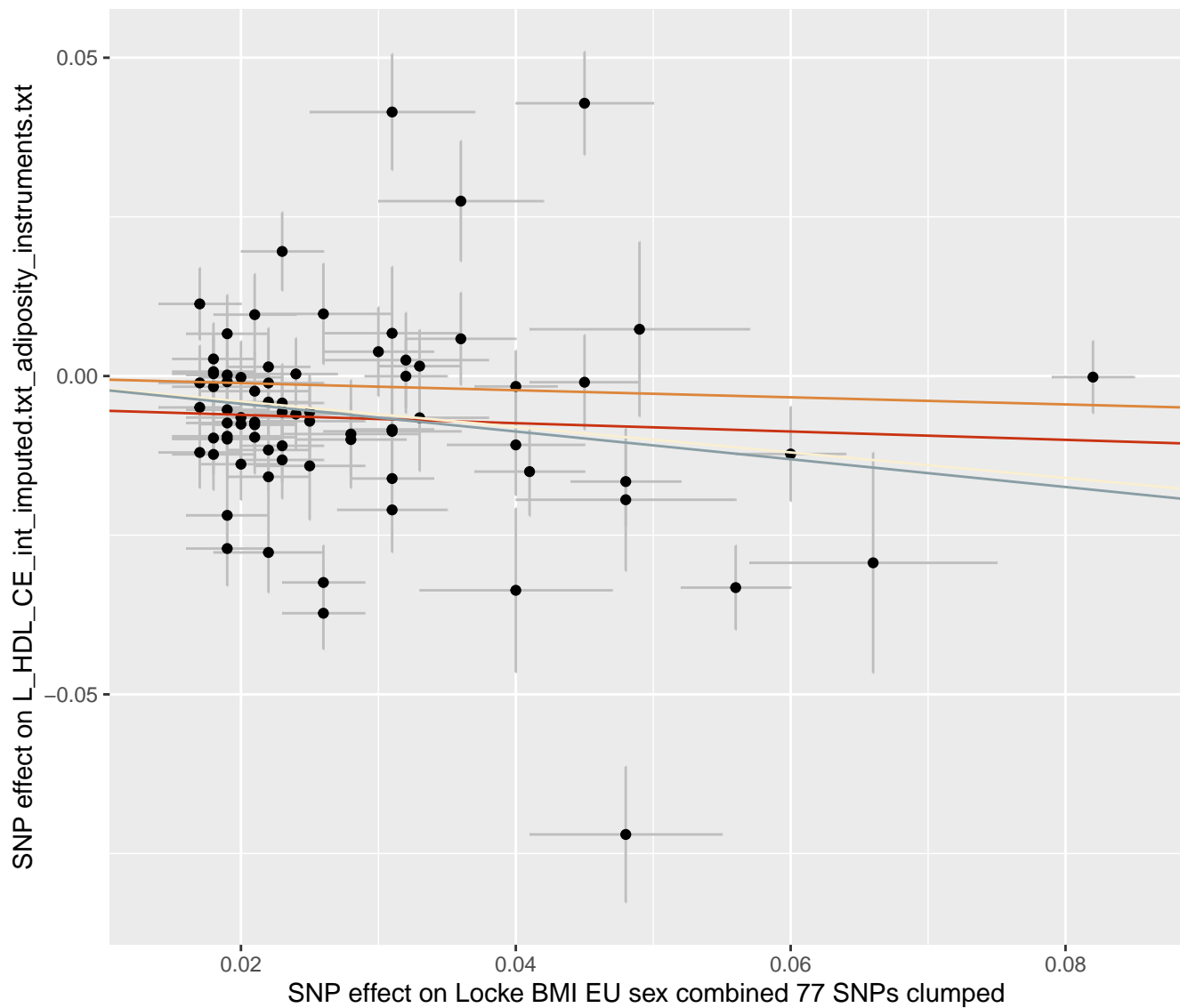
Weighted median

Weighted mode



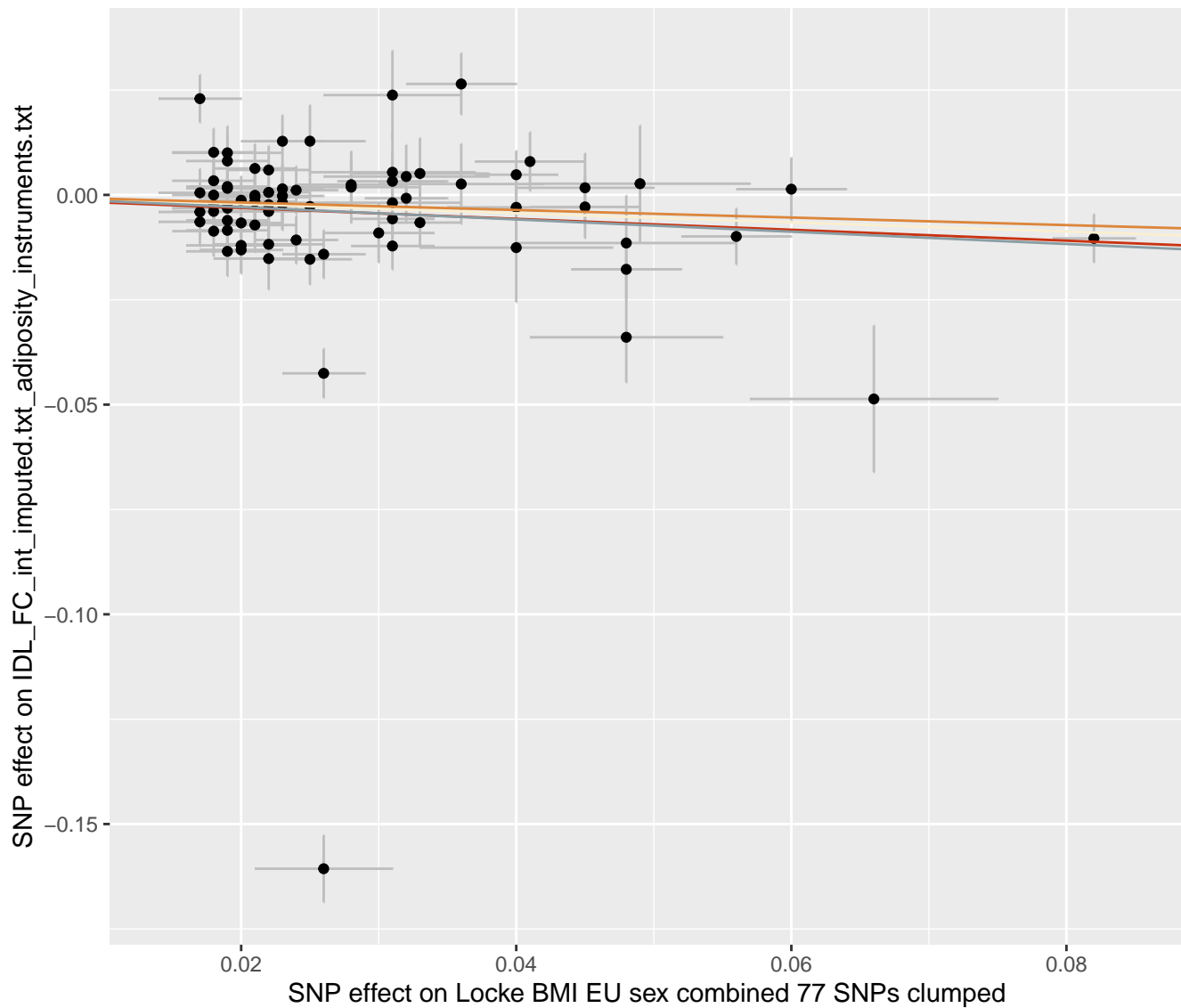
# MR Test

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



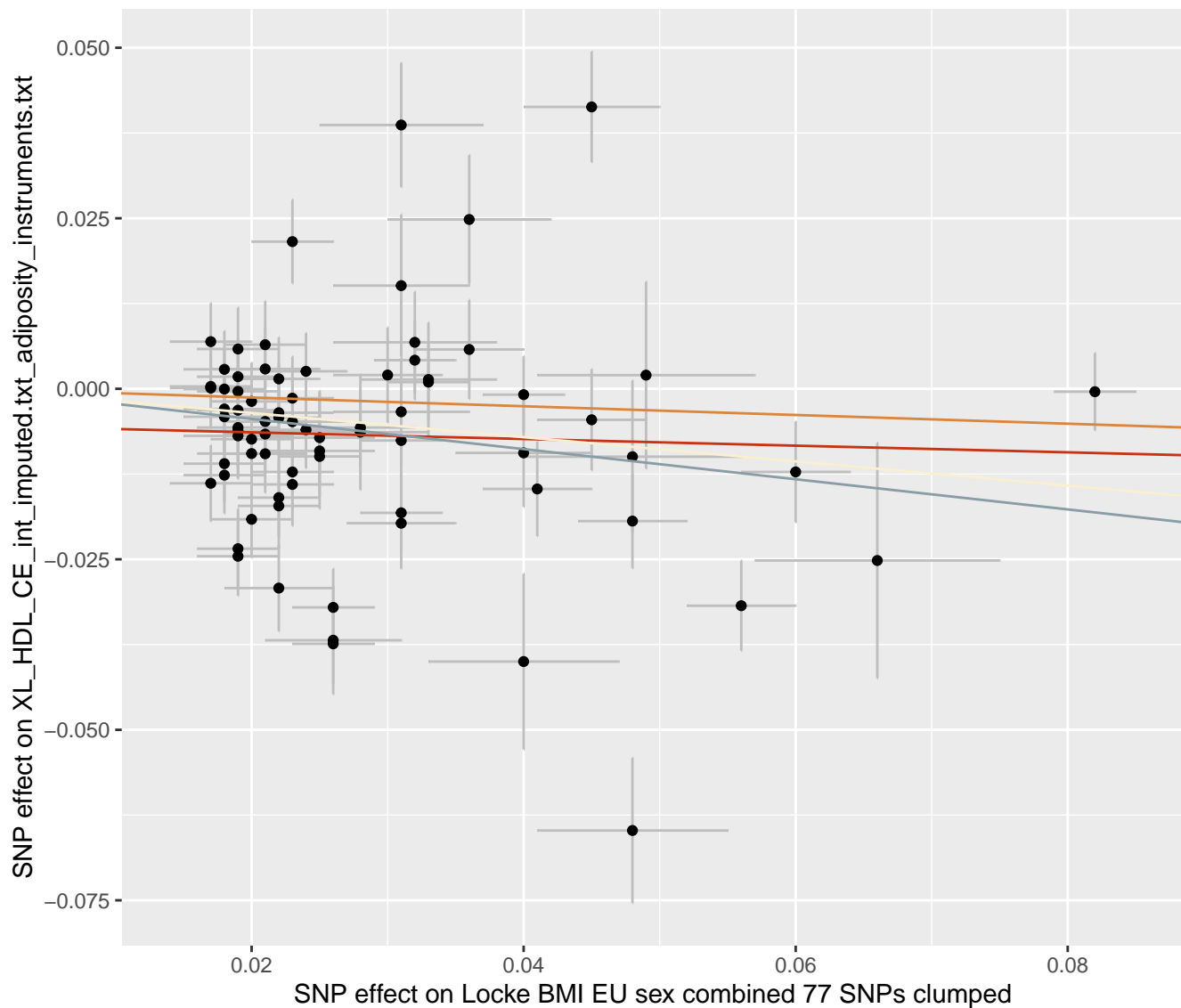
# MR Test

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



# MR Test

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





# MR Test



Inverse variance weighted (multiplicative random effects)

MR Egger

Weighted median

Weighted mode

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

0.00

-0.05

-0.10

-0.15

0.02

0.04

0.06

0.08

SNP effect on Locke BMI EU sex combined 77 SNPs clumped

