MR Test

Inverse variance weighted
MR Egger
Simple mode
Weighted median
Weighted mode

SNP effect on Risk tolerance

0.01
0.00
−0.01

0.02
0.04
0.06

SNP effect on Waist Circumference

rs55684003
rs11923667
rs7134060
rs10906391
rs45474499
rs1718845
rs11665020
rs1565716
rs4851462
rs17248480
rs9638084
rs2707238
rs11026586
rs9472135
rs7137749
rs4286632
rs2929184
rs28667801
rs360153
rs61892344
rs1706003
rs55829085
rs12078697
rs3898618
rs1047030
rs13001283
rs6777317
rs7606205
rs1996992
rs1220128
rs1098708
rs73049928
rs34517439
rs11080134
rs10062049
rs1271309
rs12142296
rs668459
rs598682
rs954767
rs1821295
rs35981664
rs4424827
rs4411245
rs59333122
rs6565174
rs75507123
rs56236159
rs10087782
rs17224476
rs113134141
rs873122
rs34163044
rs875106
rs1607644
rs603424
rs55747751
rs2390258
rs1947228
rs1232482
rs62229372
rs73033340
rs11628933
rs72704264
rs7020564
rs9932866
rs8069739
rs9563529
rs62004794
rs2222544
rs17880989
rs7180952
rs34324971
rs4634143
rs9865843
All − MR Egger
All − Inverse variance weighted
−0.10
−0.05
0.00
0.05
0.10
MR effect size for
'Diastolic blood pressure' on 'Risk tolerance'

rs9865843
rs4634143
rs73033340
rs17880989
rs7180952
rs34324971
rs1947228
rs9932866
rs8069739
rs11628933
rs9563529
rs62004794
rs7020564
rs2222544
rs34163044
rs1232482
rs603424
rs72704264
rs55747751
rs875106
rs62229372
rs2390258
rs10087782
rs1607644
rs873122
rs6565174
rs113134141
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rs35981664
rs75507123
rs56236159
rs59333122
rs1821295
rs4411245
rs4424827
rs954767
rs668459
rs598682
rs12142296
rs1271309
rs11080134
rs10062049
rs73049928
rs1098708
rs34517439
rs6777317
rs12078697
rs7606205
rs1047030
rs13001283
rs61892344
rs1220128
rs1996992
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rs2929184
rs2707238
rs1718845
rs4286632
rs1706003
rs1565716
rs9638084
rs4851462
rs7137749
rs28667801
rs11026586
rs7134060
rs9472135
rs10906391
rs11665020
rs11923667
rs360153
rs55684003
rs45474499
rs17248480
All
−0.0025
0.0000
0.0025
0.0050
0.0075
MR leave−one−out sensitivity analysis for
'Diastolic blood pressure' on 'Risk tolerance'

MR Test

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

SNP effect on Risk tolerance

0.02
0.01
0.00
−0.01
−0.02

SNP effect on Diastolic blood pressure

0.1
0.2
0.3
0.4
0.5

rs55684003
rs11923667
rs7134060
rs10906391
rs45474499
rs1718845
rs11665020
rs1565716
rs4851462
rs17248480
rs9638084
rs2707238
rs11026586
rs9472135
rs7137749
rs4286632
rs2929184
rs28667801
rs360153
rs61892344
rs1706003
rs55829085
rs12078697
rs3898618
rs1047030
rs13001283
rs6777317
rs7606205
rs1996992
rs1220128
rs1098708
rs73049928
rs34517439
rs11080134
rs10062049
rs1271309
rs12142296
rs668459
rs598682
rs954767
rs1821295
rs35981664
rs4424827
rs4411245
rs59333122
rs6565174
rs75507123
rs56236159
rs10087782
rs17224476
rs113134141
rs873122
rs34163044
rs875106
rs1607644
rs603424
rs55747751
rs2390258
rs1947228
rs1232482
rs62229372
rs73033340
rs11628933
rs72704264
rs7020564
rs9932866
rs8069739
rs9563529
rs62004794
rs2222544
rs17880989
rs7180952
rs34324971
rs4634143
rs9865843
All − MR Egger
All − Inverse variance weighted
−0.10
−0.05
0.00
0.05
0.10
MR effect size for
'Diastolic blood pressure' on 'Risk tolerance'

rs9865843
rs4634143
rs73033340
rs17880989
rs7180952
rs34324971
rs1947228
rs9932866
rs8069739
rs11628933
rs9563529
rs62004794
rs7020564
rs2222544
rs34163044
rs1232482
rs603424
rs72704264
rs55747751
rs875106
rs62229372
rs2390258
rs10087782
rs1607644
rs873122
rs6565174
rs113134141
rs17224476
rs35981664
rs75507123
rs56236159
rs59333122
rs1821295
rs4411245
rs4424827
rs954767
rs668459
rs598682
rs12142296
rs1271309
rs11080134
rs10062049
rs73049928
rs1098708
rs34517439
rs6777317
rs12078697
rs7606205
rs1047030
rs13001283
rs61892344
rs1220128
rs1996992
rs55829085
rs3898618
rs2929184
rs2707238
rs1718845
rs4286632
rs1706003
rs1565716
rs9638084
rs4851462
rs7137749
rs28667801
rs11026586
rs7134060
rs9472135
rs10906391
rs11665020
rs11923667
rs360153
rs55684003
rs45474499
rs17248480
All
−0.0025
0.0000
0.0025
0.0050
0.0075
MR leave−one−out sensitivity analysis for
'Diastolic blood pressure' on 'Risk tolerance'

MR Method

Inverse variance weighted

MR Egger

90

80

70

60

50

40

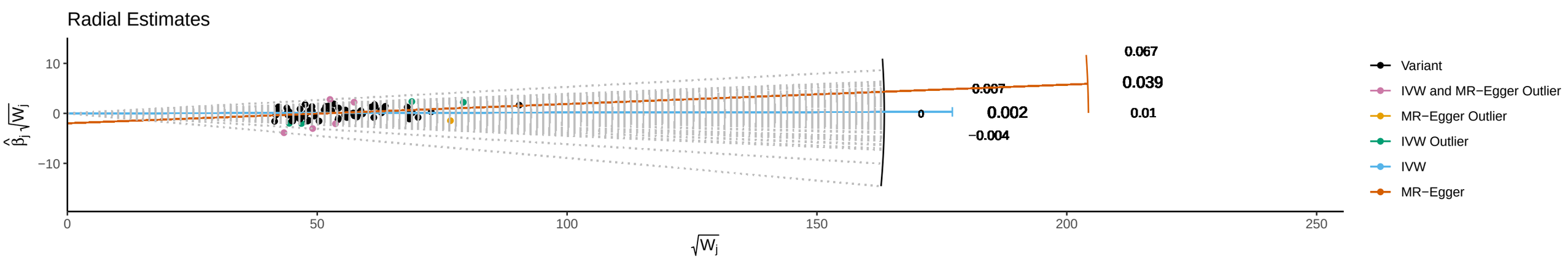
$1/SE_{IV}$

−0.05

0.00

0.05

β_{IV}


Radial Estimates
10
0
−10
0
50
100
150
200
250
$\sqrt{W_j}$
$\hat{\beta}_j\sqrt{W_j}$
0.067
0.039
0.01
0.067
0.002
−0.004
0
Variant
IVW and MR−Egger Outlier
MR−Egger Outlier
IVW Outlier
IVW
MR−Egger

MR Test

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

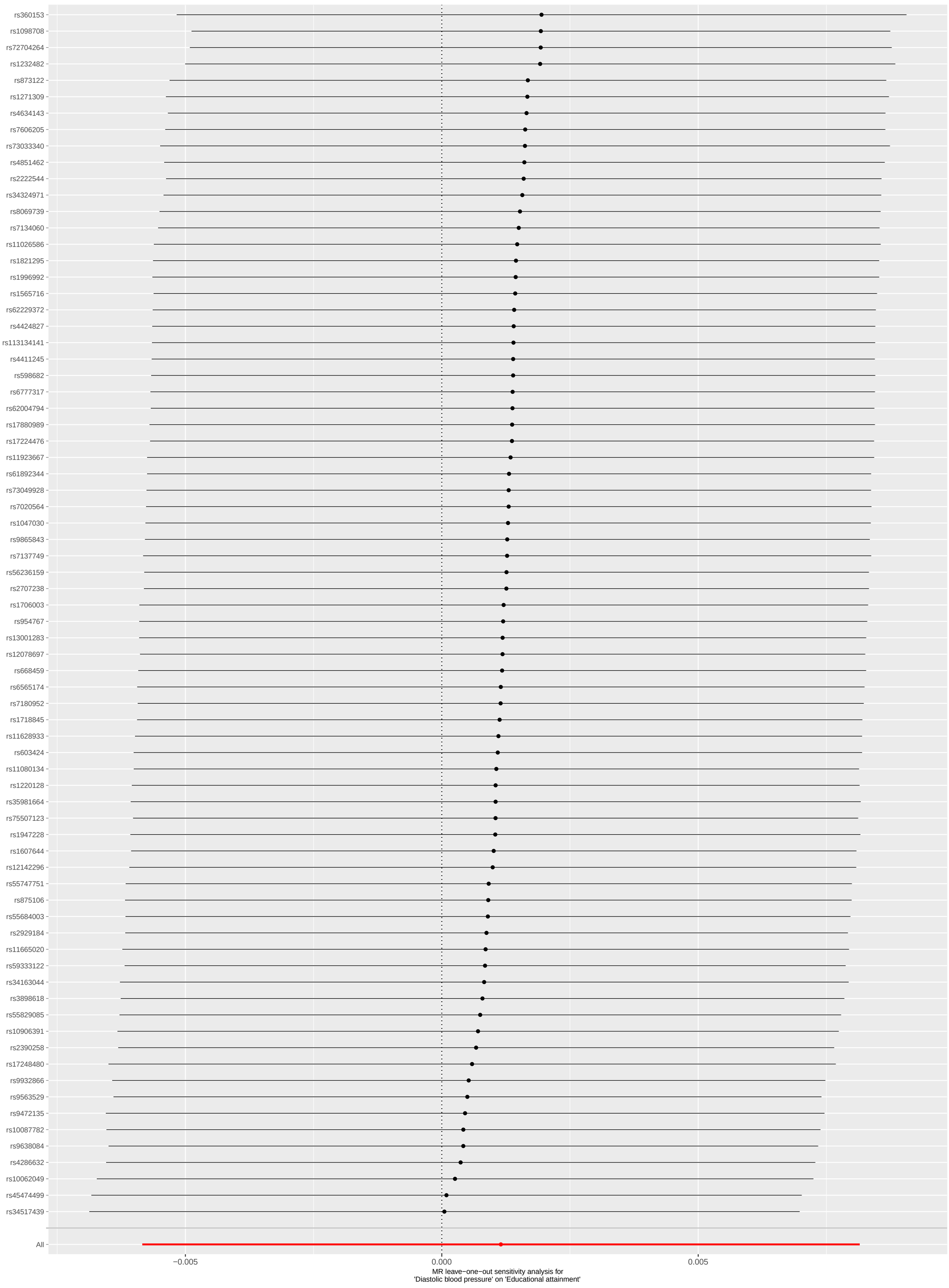
SNP effect on Educational attainment

0.02
0.01
0.00
−0.01

0.1
0.2
0.3
0.4
0.5

SNP effect on Diastolic blood pressure

rs9563529
rs9638084
rs4286632
rs9932866
rs2390258
rs10087782
rs45474499
rs34517439
rs10062049
rs9472135
rs59333122
rs10906391
rs55829085
rs2929184
rs3898618
rs17248480
rs55684003
rs11665020
rs55747751
rs875106
rs34163044
rs1607644
rs75507123
rs12142296
rs11080134
rs1220128
rs1947228
rs35981664
rs603424
rs11628933
rs1718845
rs7180952
rs6565174
rs668459
rs13001283
rs954767
rs1706003
rs12078697
rs7137749
rs2707238
rs11923667
rs1047030
rs56236159
rs7020564
rs9865843
rs73033340
rs1996992
rs17880989
rs11026586
rs73049928
rs1821295
rs61892344
rs360153
rs6777317
rs17224476
rs598682
rs62004794
rs1565716
rs4411245
rs113134141
rs62229372
rs4424827
rs1271309
rs7134060
rs8069739
rs4851462
rs7606205
rs4634143
rs873122
rs34324971
rs2222544
rs1232482
rs72704264
rs1098708
All − MR Egger
All − Inverse variance weighted
−0.10
−0.05
0.00
0.05
0.10
MR effect size for
'Diastolic blood pressure' on 'Educational attainment'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rs1098708
rs72704264
rs1232482
rs873122
rs1271309
rs4634143
rs7606205
rs73033340
rs4851462
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rs34324971
rs8069739
rs7134060
rs11026586
rs1821295
rs1996992
rs1565716
rs62229372
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rs113134141
rs4411245
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rs62004794
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rs11923667
rs61892344
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rs7020564
rs1047030
rs9865843
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rs1220128
rs35981664
rs75507123
rs1947228
rs1607644
rs12142296
rs55747751
rs875106
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rs2929184
rs11665020
rs59333122
rs34163044
rs3898618
rs55829085
rs10906391
rs2390258
rs17248480
rs9932866
rs9563529
rs9472135
rs10087782
rs9638084
rs4286632
rs10062049
rs45474499
rs34517439
All
−0.005
0.000
0.005
MR leave−one−out sensitivity analysis for
'Diastolic blood pressure' on 'Educational attainment'

MR Test

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

SNP effect on Educational attainment

0.02
0.01
0.00
−0.01

0.1
0.2
0.3
0.4
0.5

SNP effect on Diastolic blood pressure

rs9563529
rs9638084
rs4286632
rs9932866
rs2390258
rs10087782
rs45474499
rs34517439
rs10062049
rs9472135
rs59333122
rs10906391
rs55829085
rs2929184
rs3898618
rs17248480
rs55684003
rs11665020
rs55747751
rs875106
rs34163044
rs1607644
rs75507123
rs12142296
rs11080134
rs1220128
rs1947228
rs35981664
rs603424
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rs1047030
rs56236159
rs7020564
rs9865843
rs73033340
rs1996992
rs17880989
rs11026586
rs73049928
rs1821295
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rs360153
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rs17224476
rs598682
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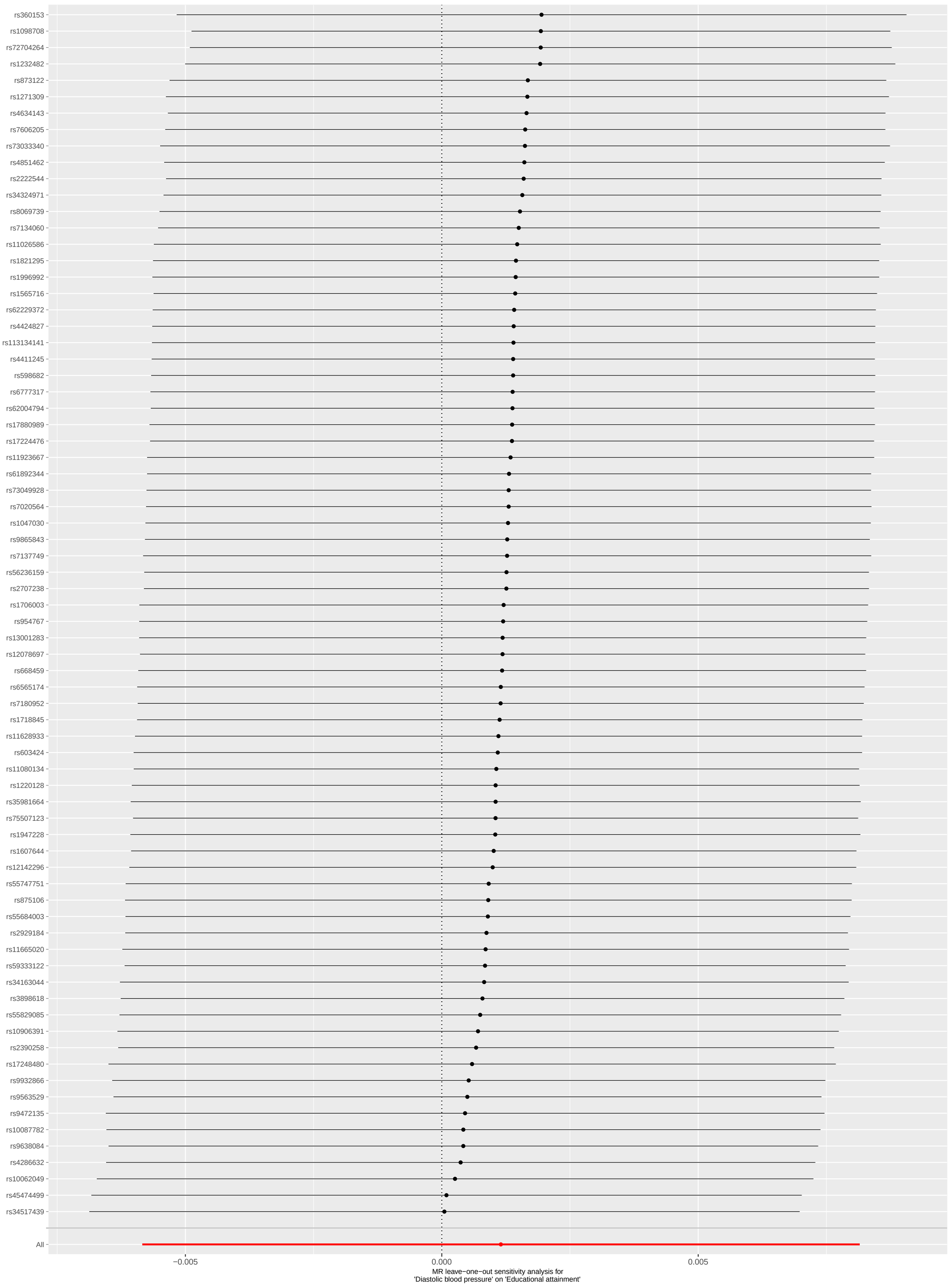
rs1565716
rs4411245
rs113134141
rs62229372
rs4424827
rs1271309
rs7134060
rs8069739
rs4851462
rs7606205
rs4634143
rs873122
rs34324971
rs2222544
rs1232482
rs72704264
rs1098708
All − MR Egger
All − Inverse variance weighted
−0.10
−0.05
0.00
0.05
0.10
MR effect size for
'Diastolic blood pressure' on 'Educational attainment'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rs8069739
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rs1821295
rs1996992
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rs598682
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rs1047030
rs9865843
rs7137749
rs56236159
rs2707238
rs1706003
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rs13001283
rs12078697
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rs603424
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rs1220128
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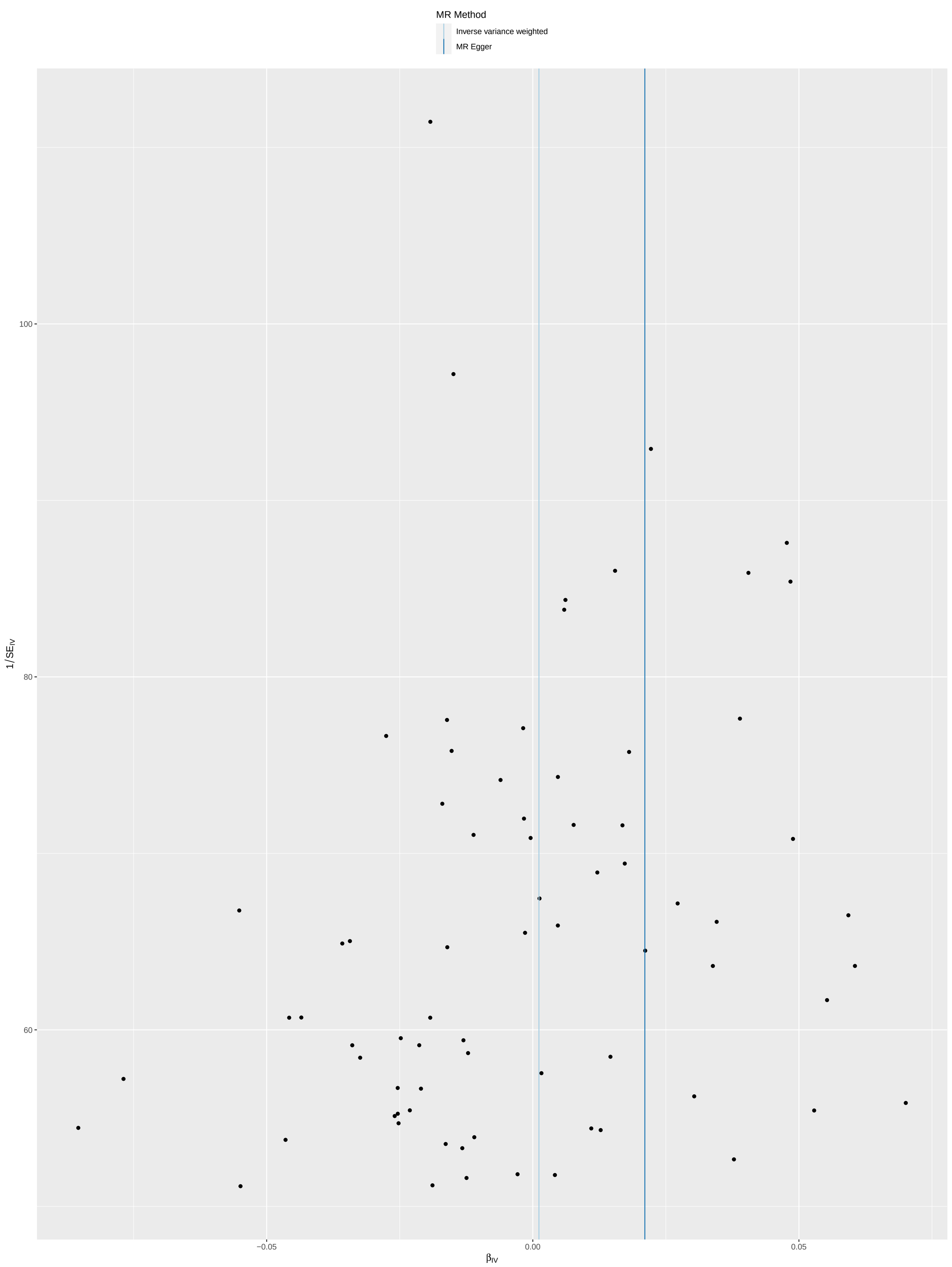
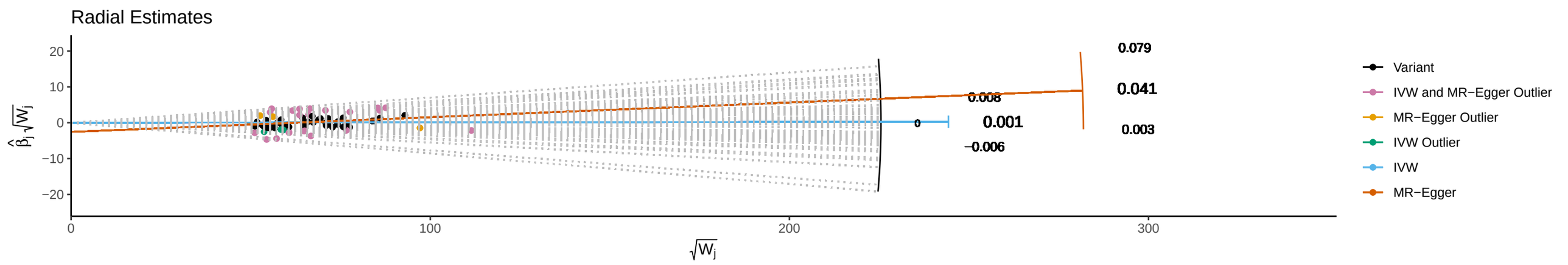
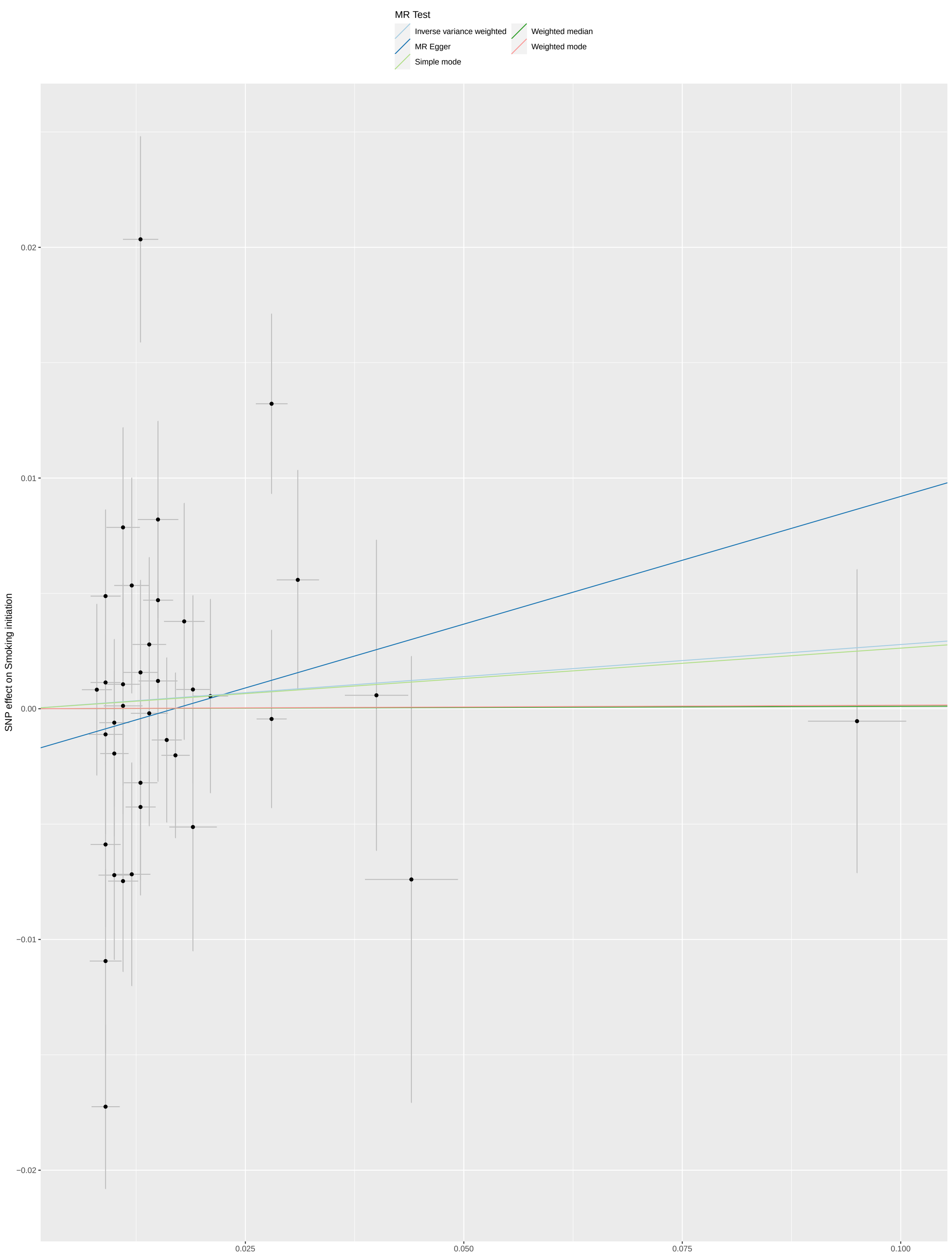
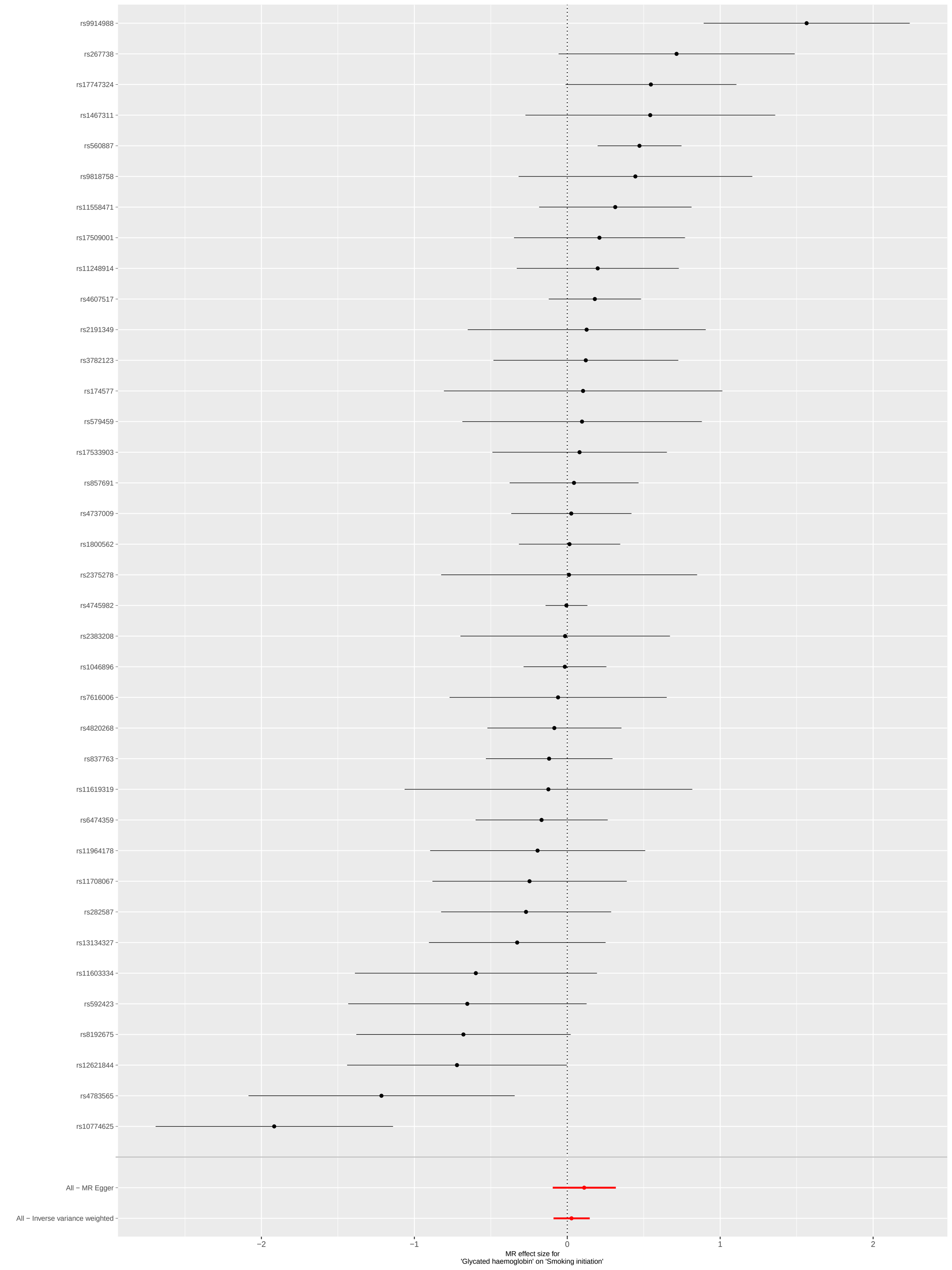
rs75507123
rs1947228
rs1607644
rs12142296
rs55747751
rs875106
rs55684003
rs2929184
rs11665020
rs59333122
rs34163044
rs3898618
rs55829085
rs10906391
rs2390258
rs17248480
rs9932866
rs9563529
rs9472135
rs10087782
rs9638084
rs4286632
rs10062049
rs45474499
rs34517439
All
−0.005
0.000
0.005
MR leave−one−out sensitivity analysis for
'Diastolic blood pressure' on 'Educational attainment'


MR Method
Inverse variance weighted
MR Egger
100
80
60
1/SE_IV
−0.05
0.00
0.05
β_IV


Radial Estimates
20
10
0
−10
−20
$\hat{\beta}_j\sqrt{W_j}$
0
100
200
300
$\sqrt{W_j}$
0.079
0.041
0.003
0.008
0.001
0
−0.006
Variant
IVW and MR−Egger Outlier
MR−Egger Outlier
IVW Outlier
IVW
MR−Egger

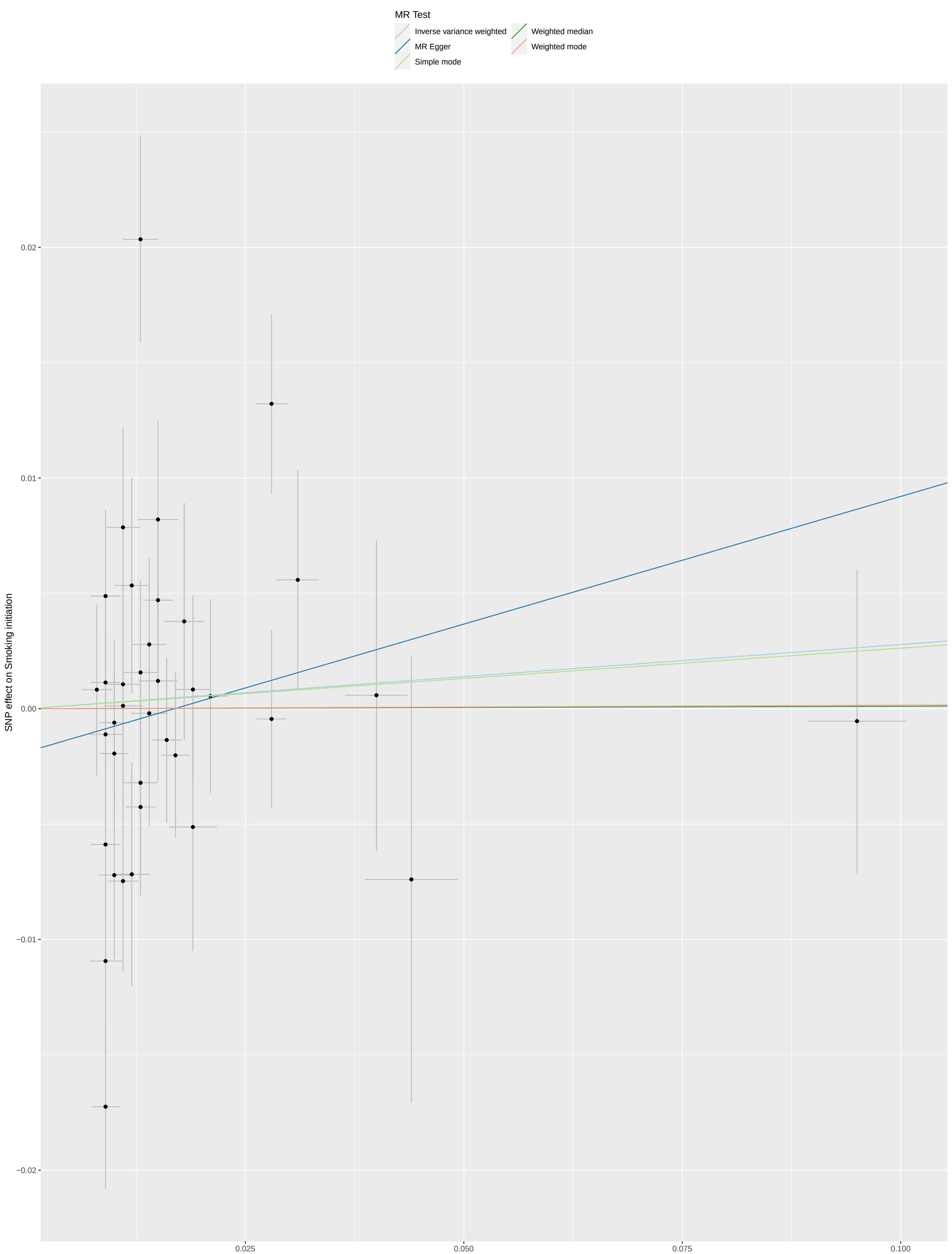

MR Test
Inverse variance weighted
MR Egger
Simple mode
Weighted median
Weighted mode
0.02
0.01
0.00
−0.01
−0.02
SNP effect on Smoking initiation
0.025
0.050
0.075
0.100
SNP effect on Glycated haemoglobin

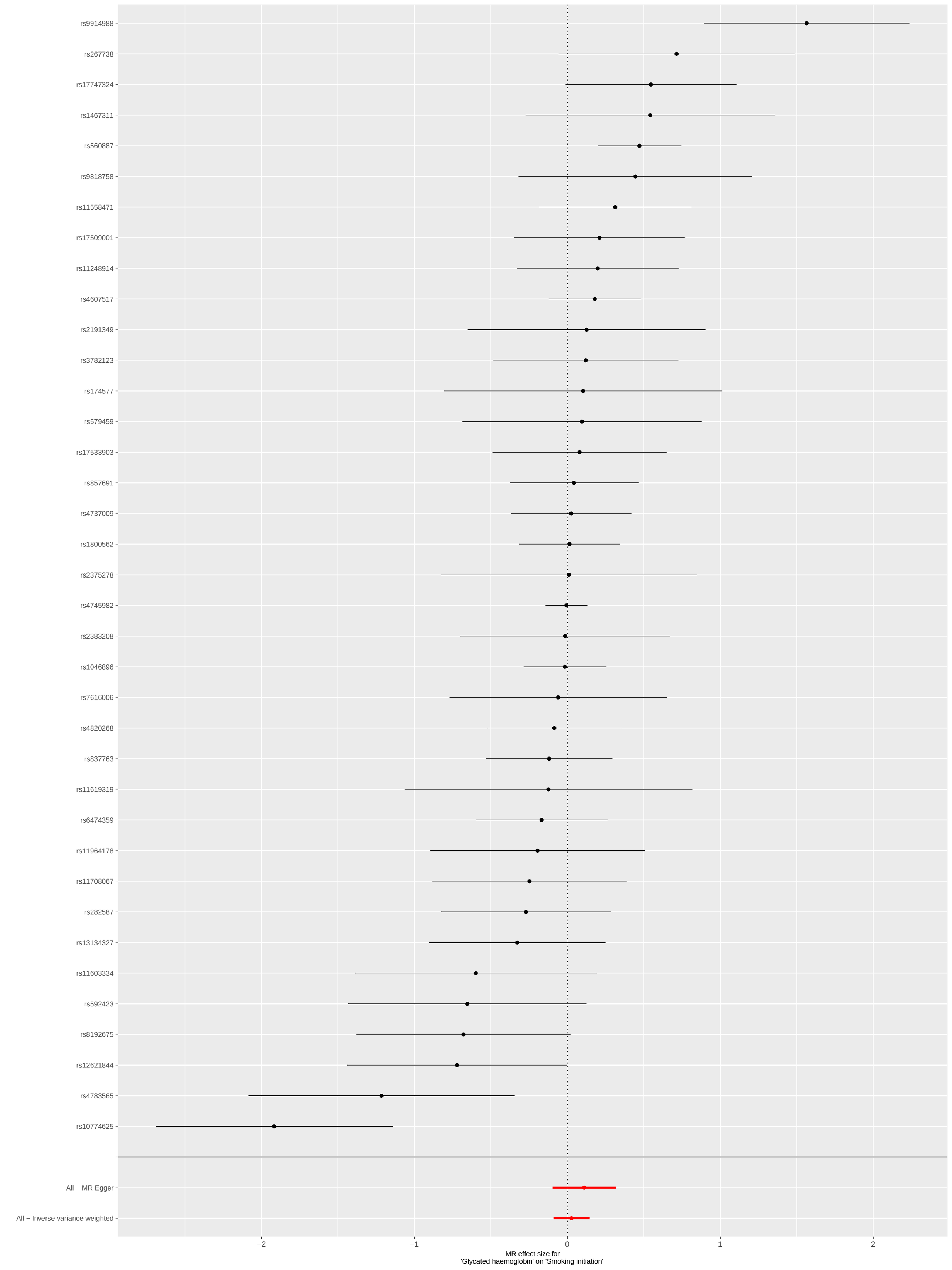

rs9914988
rs267738
rs17747324
rs1467311
rs560887
rs9818758
rs11558471
rs17509001
rs11248914
rs4607517
rs2191349
rs3782123
rs174577
rs579459
rs17533903
rs857691
rs4737009
rs1800562
rs2375278
rs4745982
rs2383208
rs1046896
rs7616006
rs4820268
rs837763
rs11619319
rs6474359
rs11964178
rs11708067
rs282587
rs13134327
rs11603334
rs592423
rs8192675
rs12621844
rs4783565
rs10774625
All − MR Egger
All − Inverse variance weighted
−2
−1
0
1
2
MR effect size for
'Glycated haemoglobin' on 'Smoking initiation'

rs10774625
rs4745982
rs4783565
rs12621844
rs8192675
rs592423
rs13134327
rs6474359
rs11603334
rs282587
rs837763
rs11708067
rs1046896
rs4820268
rs11964178
rs7616006
rs11619319
rs1800562
rs2383208
rs2375278
rs4737009
rs174577
rs857691
rs579459
rs17533903
rs2191349
rs3782123
rs17509001
rs11248914
rs9818758
rs1467311
rs267738
rs11558471
rs17747324
rs4607517
rs9914988
rs560887
All

−0.1
0.0
0.1

MR leave−one−out sensitivity analysis for
'Glycated haemoglobin' on 'Smoking initiation'

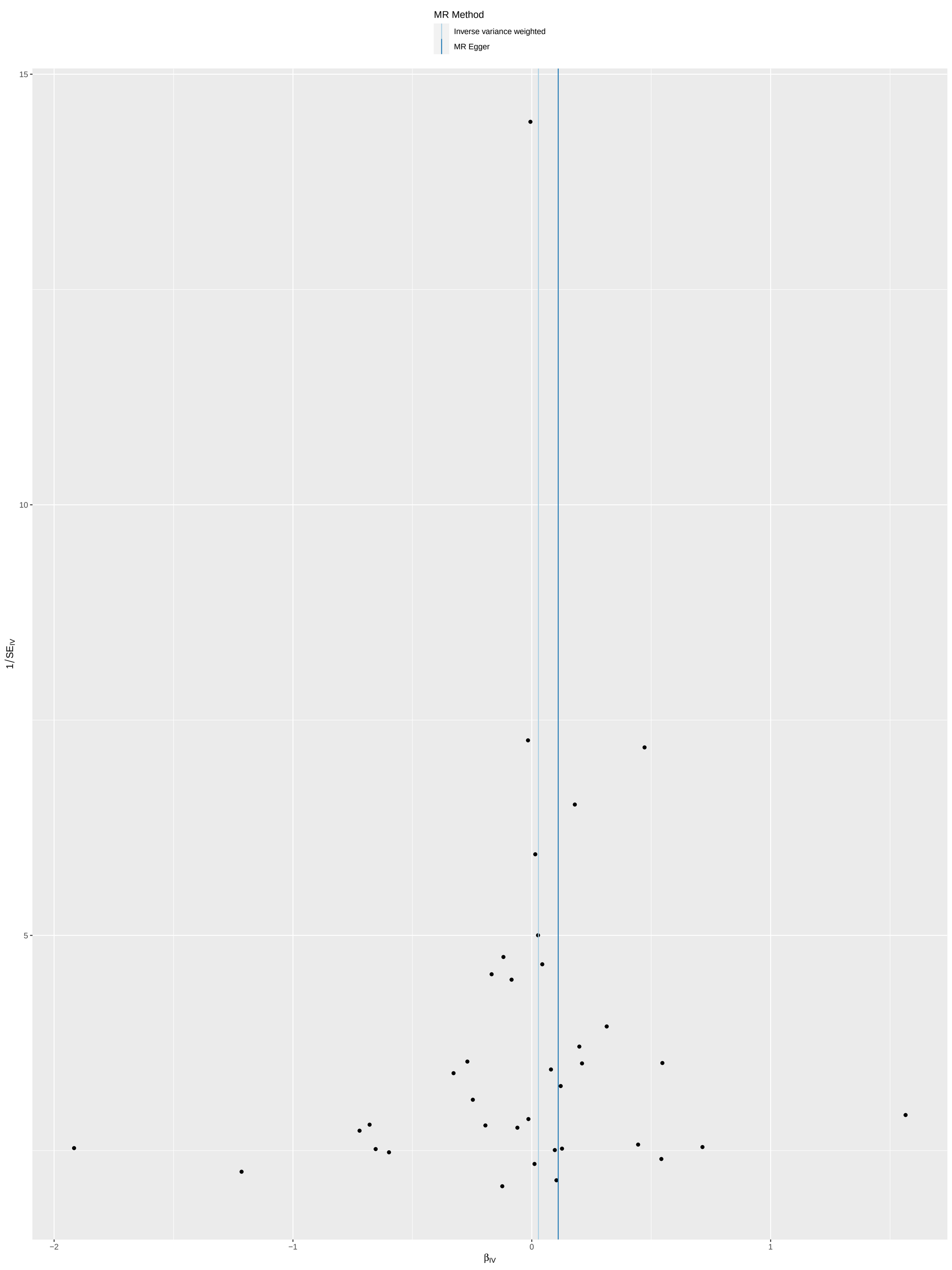

MR Test
Inverse variance weighted
MR Egger
Simple mode
Weighted median
Weighted mode
0.02
0.01
0.00
−0.01
−0.02
SNP effect on Smoking initiation
0.025
0.050
0.075
0.100
SNP effect on Glycated haemoglobin


rs9914988
rs267738
rs17747324
rs1467311
rs560887
rs9818758
rs11558471
rs17509001
rs11248914
rs4607517
rs2191349
rs3782123
rs174577
rs579459
rs17533903
rs857691
rs4737009
rs1800562
rs2375278
rs4745982
rs2383208
rs1046896
rs7616006
rs4820268
rs837763
rs11619319
rs6474359
rs11964178
rs11708067
rs282587
rs13134327
rs11603334
rs592423
rs8192675
rs12621844
rs4783565
rs10774625
All − MR Egger
All − Inverse variance weighted
−2
−1
0
1
2
MR effect size for
'Glycated haemoglobin' on 'Smoking initiation'

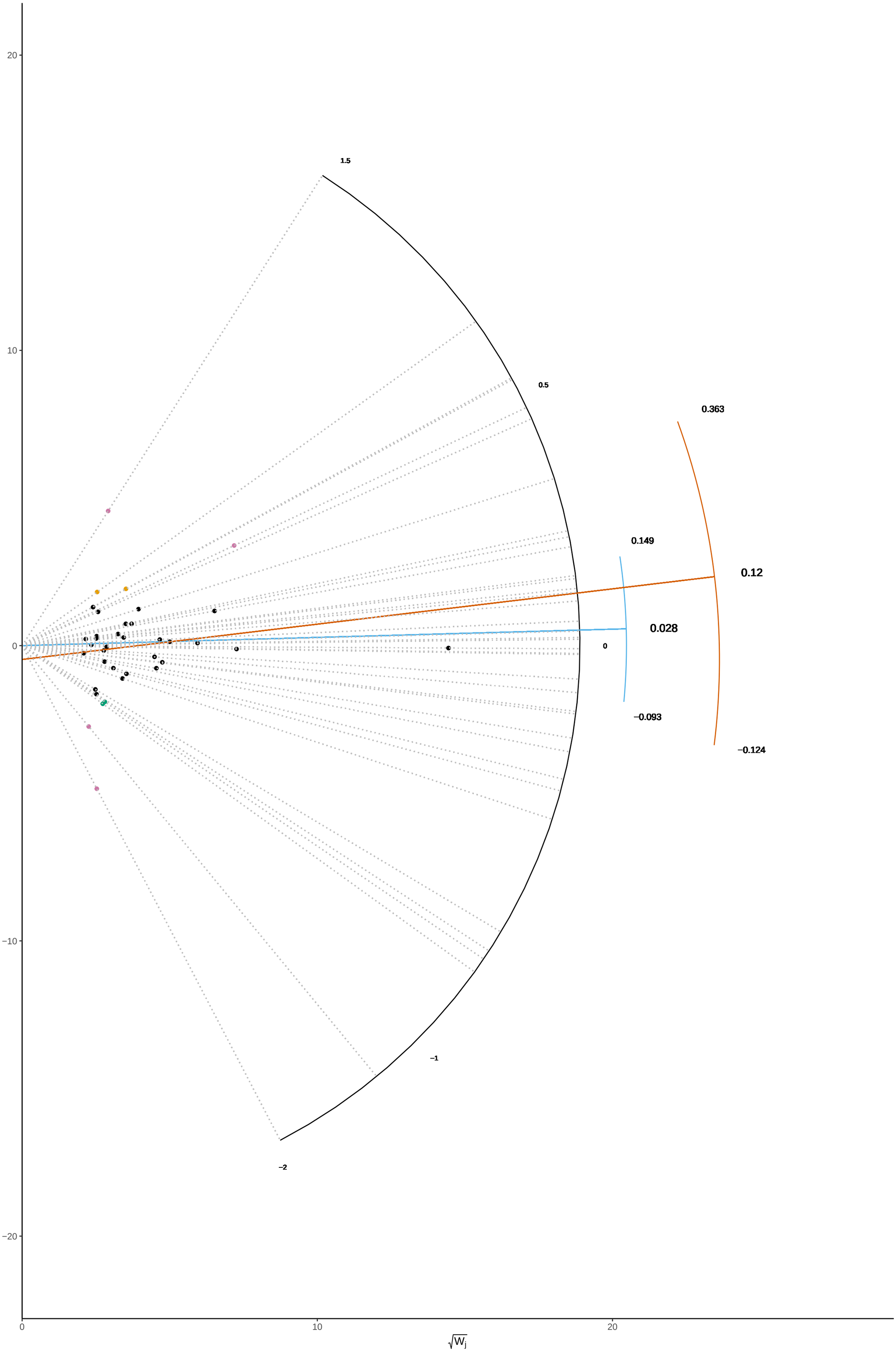
rs10774625
rs4745982
rs4783565
rs12621844
rs8192675
rs592423
rs13134327
rs6474359
rs11603334
rs282587
rs837763
rs11708067
rs1046896
rs4820268
rs11964178
rs7616006
rs11619319
rs1800562
rs2383208
rs2375278
rs4737009
rs174577
rs857691
rs579459
rs17533903
rs2191349
rs3782123
rs17509001
rs11248914
rs9818758
rs1467311
rs267738
rs11558471
rs17747324
rs4607517
rs9914988
rs560887
All

−0.1
0.0
0.1

MR leave−one−out sensitivity analysis for
'Glycated haemoglobin' on 'Smoking initiation'


MR Method
Inverse variance weighted
MR Egger
15
10
5
1/SE_IV
−2
−1
0
1
β_IV

Radial Estimates



MR Test

Inverse variance weighted
MR Egger
Simple mode
Weighted median
Weighted mode

SNP effect on Alcohol drinks per week

SNP effect on Glycated haemoglobin

rs267738
rs1467311
rs17533903
rs11603334
rs4820268
rs3782123
rs11708067
rs560887
rs4745982
rs2191349
rs11619319
rs11248914
rs8192675
rs4737009
rs1800562
rs579459
rs9818758
rs1046896
rs857691
rs6474359
rs837763
rs282587
rs10774625
rs13134327
rs9914988
rs4607517
rs7616006
rs2375278
rs592423
rs17747324
rs2383208
rs11558471
rs17509001
rs12621844
rs4783565
rs174577
rs11964178
All − MR Egger
All − Inverse variance weighted
−1.0
−0.5
0.0
0.5
1.0
MR effect size for
'Glycated haemoglobin' on 'Alcohol drinks per week'

rs11964178
rs4607517
rs11558471
rs17509001
rs174577
rs12621844
rs17747324
rs2383208
rs4783565
rs837763
rs592423
rs13134327
rs7616006
rs1046896
rs282587
rs9914988
rs2375278
rs6474359
rs10774625
rs857691
rs9818758
rs579459
rs8192675
rs11619319
rs2191349
rs4737009
rs1800562
rs11708067
rs11248914
rs11603334
rs3782123
rs1467311
rs17533903
rs267738
rs4820268
rs560887
rs4745982
All
−0.10
−0.05
0.00
0.05
MR leave−one−out sensitivity analysis for
'Glycated haemoglobin' on 'Alcohol drinks per week'

MR Test

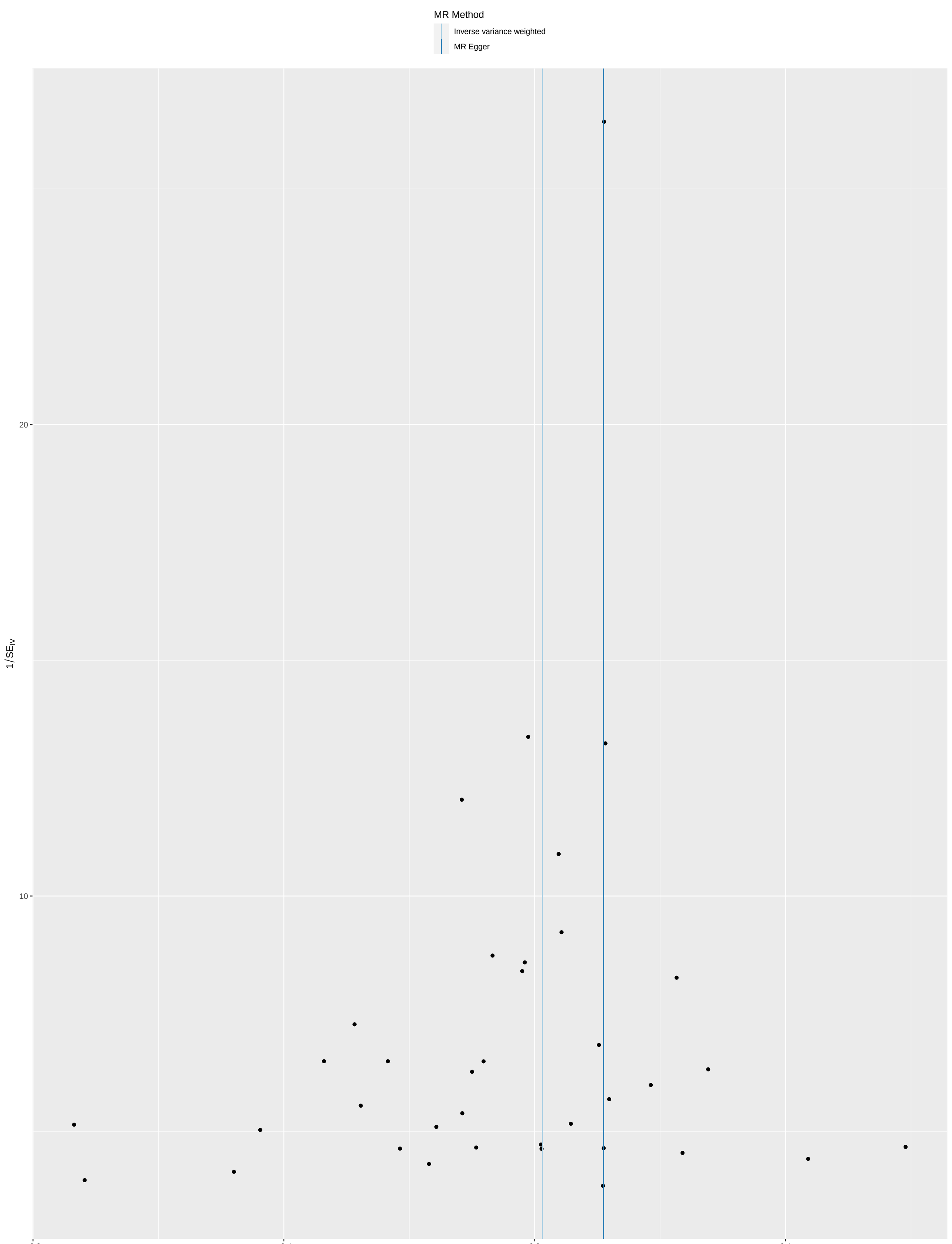
Inverse variance weighted
MR Egger
Simple mode
Weighted median
Weighted mode

SNP effect on Alcohol drinks per week

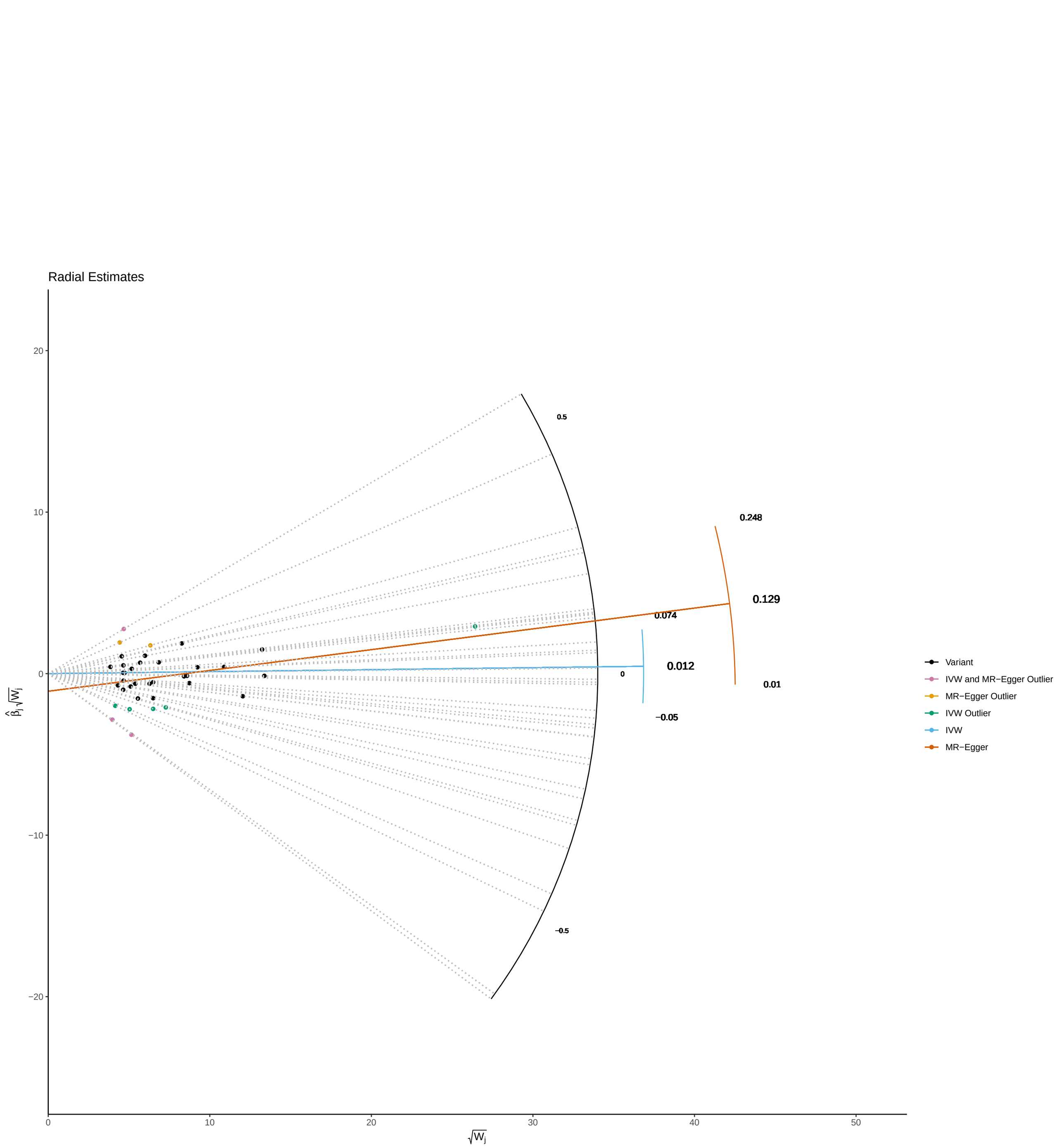
SNP effect on Glycated haemoglobin

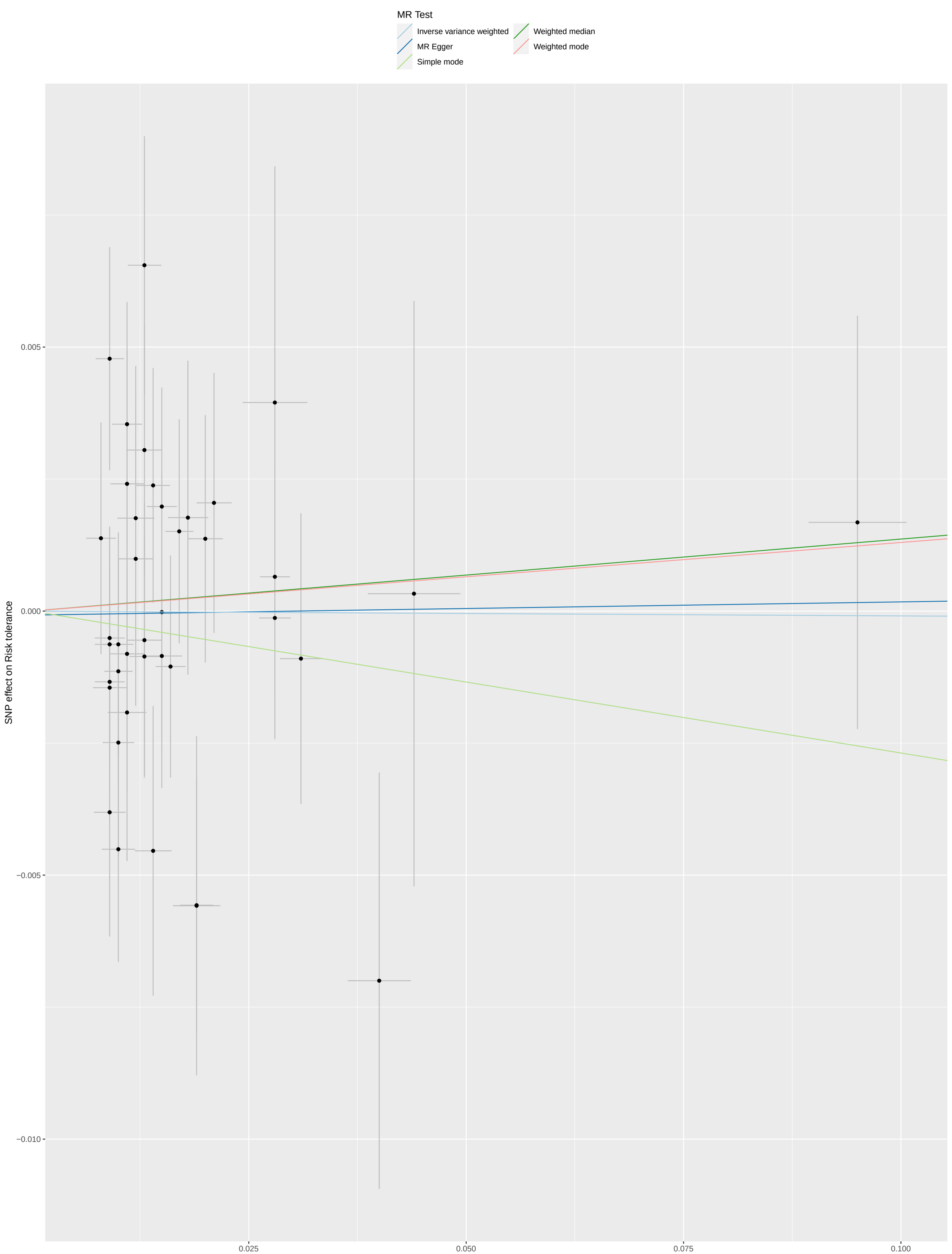
rs267738
rs1467311
rs17533903
rs11603334
rs4820268
rs3782123
rs11708067
rs560887
rs4745982
rs2191349
rs11619319
rs11248914
rs8192675
rs4737009
rs1800562
rs579459
rs9818758
rs1046896
rs857691
rs6474359
rs837763
rs282587
rs10774625
rs13134327
rs9914988
rs4607517
rs7616006
rs2375278
rs592423
rs17747324
rs2383208
rs11558471
rs17509001
rs12621844
rs4783565
rs174577
rs11964178
All − MR Egger
All − Inverse variance weighted
−1.0
−0.5
0.0
0.5
1.0
MR effect size for
'Glycated haemoglobin' on 'Alcohol drinks per week'

rs11964178
rs4607517
rs11558471
rs17509001
rs174577
rs12621844
rs17747324
rs2383208
rs4783565
rs837763
rs592423
rs13134327
rs7616006
rs1046896
rs282587
rs9914988
rs2375278
rs6474359
rs10774625
rs857691
rs9818758
rs579459
rs8192675
rs11619319
rs2191349
rs4737009
rs1800562
rs11708067
rs11248914
rs11603334
rs3782123
rs1467311
rs17533903
rs267738
rs4820268
rs560887
rs4745982
All
−0.10
−0.05
0.00
0.05
MR leave−one−out sensitivity analysis for
'Glycated haemoglobin' on 'Alcohol drinks per week'

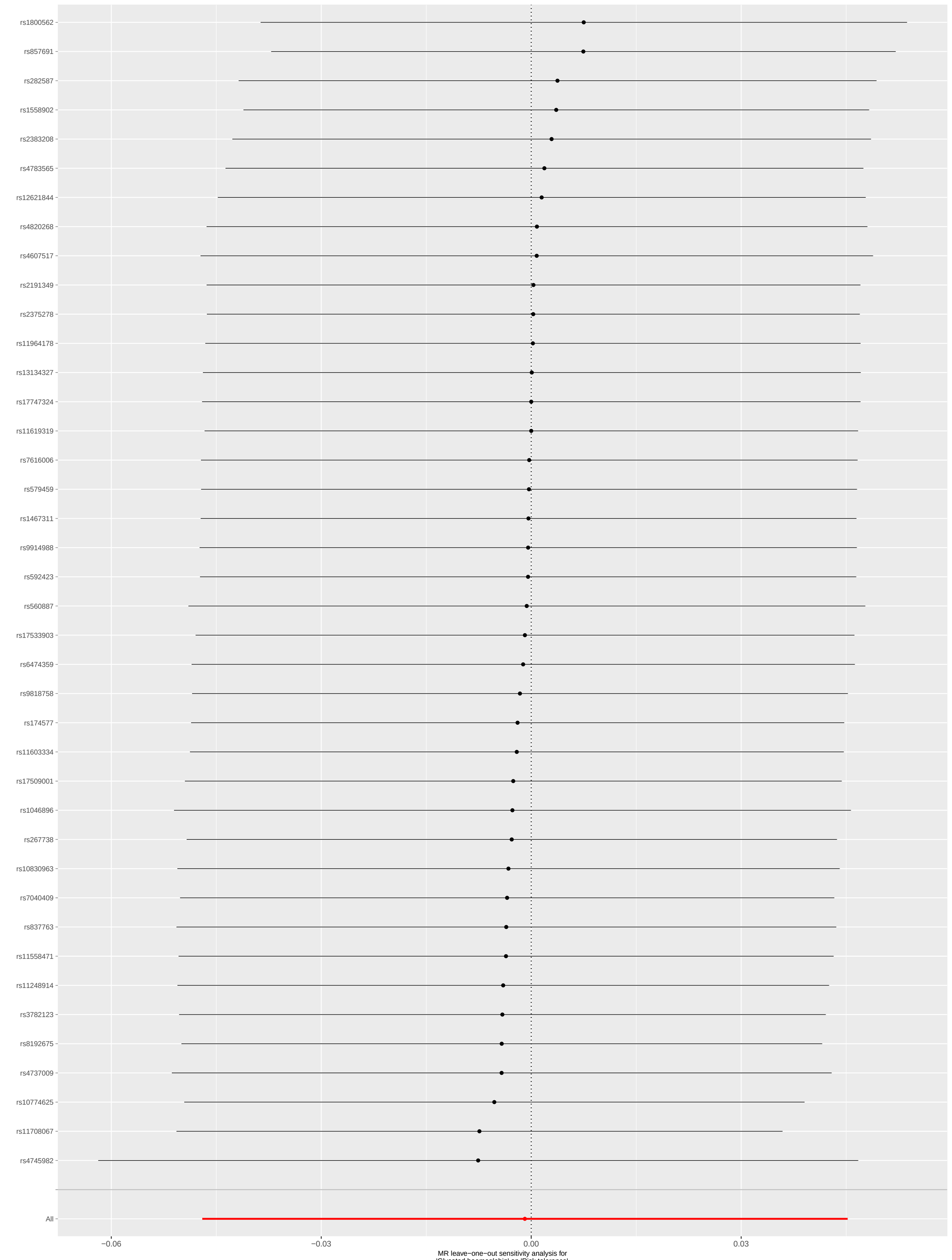

MR Method
Inverse variance weighted
MR Egger
20
10
1/SE_IV
−0.8
−0.4
0.0
0.4
β_IV

Radial Estimates




MR Test
Inverse variance weighted
MR Egger
Simple mode
Weighted median
Weighted mode
0.005
0.000
−0.005
−0.010
SNP effect on Risk tolerance
0.025
0.050
0.075
0.100
SNP effect on Glycated haemoglobin

rs10774625
rs11708067
rs8192675
rs3782123
rs267738
rs174577
rs11248914
rs11603334
rs7040409
rs11558471
rs17509001
rs4737009
rs837763
rs9818758
rs10830963
rs1046896
rs4745982
rs6474359
rs17533903
rs560887
rs4607517
rs9914988
rs17747324
rs592423
rs7616006
rs4820268
rs13134327
rs1467311
rs579459
rs11964178
rs2191349
rs11619319
rs2375278
rs1800562
rs12621844
rs857691
rs282587
rs2383208
rs4783565
rs1558902
All − MR Egger
All − Inverse variance weighted
−1.0
−0.5
0.0
0.5
1.0
MR effect size for
'Glycated haemoglobin' on 'Risk tolerance'


rs1800562
rs857691
rs282587
rs1558902
rs2383208
rs4783565
rs12621844
rs4820268
rs4607517
rs2191349
rs2375278
rs11964178
rs13134327
rs17747324
rs11619319
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rs579459
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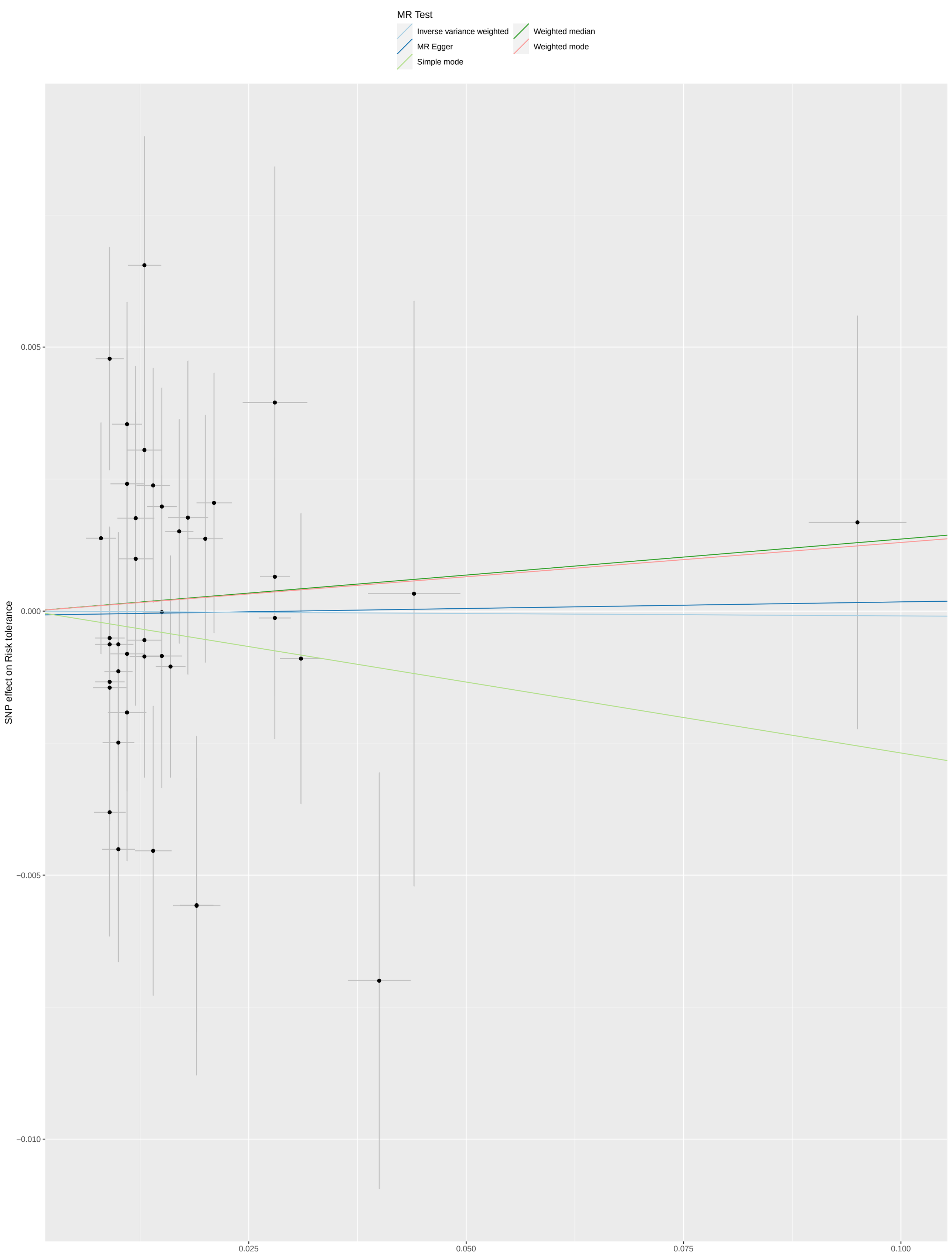
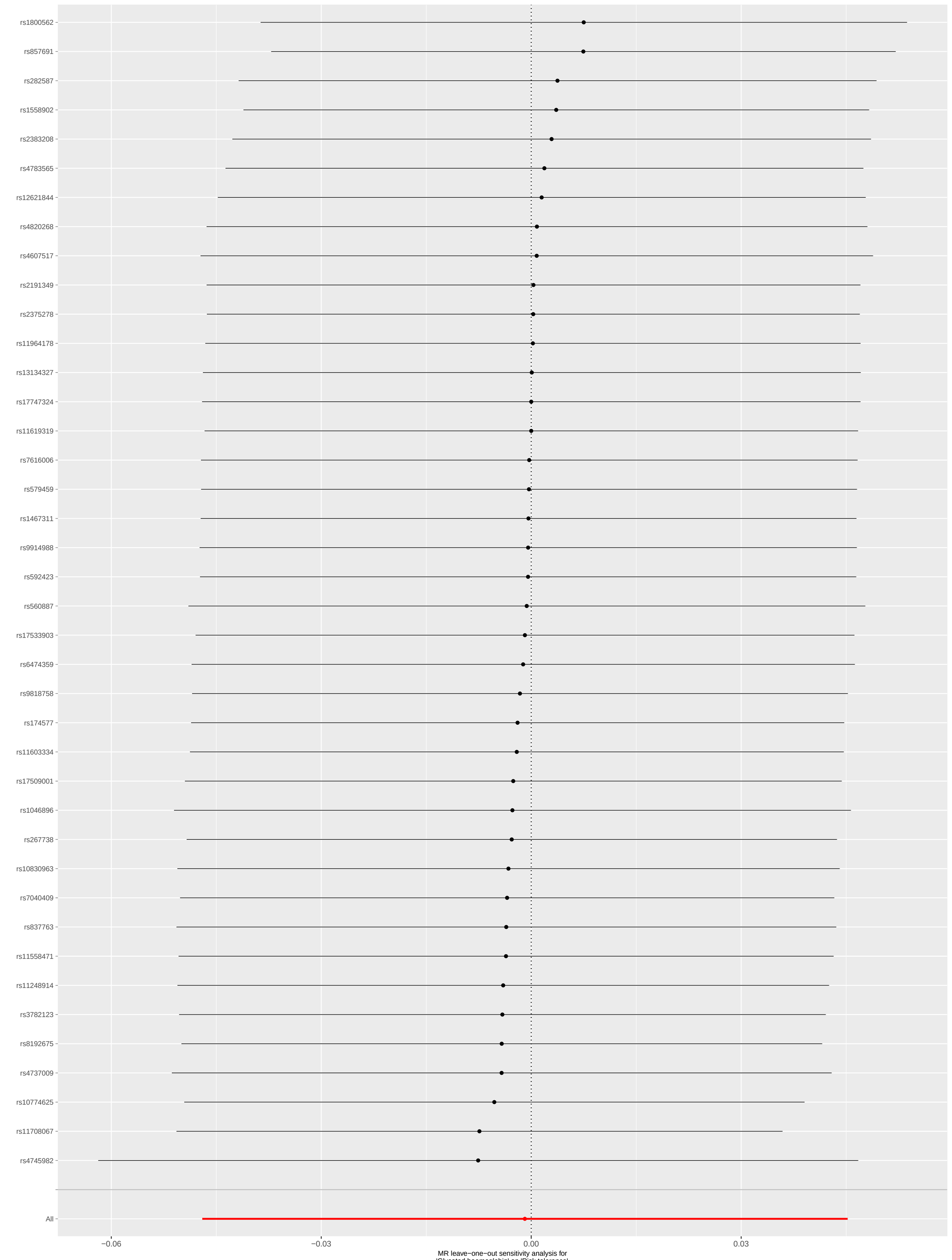
rs9914988
rs592423
rs560887
rs17533903
rs6474359
rs9818758
rs174577
rs11603334
rs17509001
rs1046896
rs267738
rs10830963
rs7040409
rs837763
rs11558471
rs11248914
rs3782123
rs8192675
rs4737009
rs10774625
rs11708067
rs4745982
All
−0.06
−0.03
0.00
0.03
MR leave−one−out sensitivity analysis for
'Glycated haemoglobin' on 'Risk tolerance'


MR Test
Inverse variance weighted
MR Egger
Simple mode
Weighted median
Weighted mode
0.005
0.000
−0.005
−0.010
SNP effect on Risk tolerance
0.025
0.050
0.075
0.100
SNP effect on Glycated haemoglobin

rs10774625
rs11708067
rs8192675
rs3782123
rs267738
rs174577
rs11248914
rs11603334
rs7040409
rs11558471
rs17509001
rs4737009
rs837763
rs9818758
rs10830963
rs1046896
rs4745982
rs6474359
rs17533903
rs560887
rs4607517
rs9914988
rs17747324
rs592423
rs7616006
rs4820268
rs13134327
rs1467311
rs579459
rs11964178
rs2191349
rs11619319
rs2375278
rs1800562
rs12621844
rs857691
rs282587
rs2383208
rs4783565
rs1558902
All − MR Egger
All − Inverse variance weighted
−1.0
−0.5
0.0
0.5
1.0
MR effect size for
'Glycated haemoglobin' on 'Risk tolerance'


rs1800562
rs857691
rs282587
rs1558902
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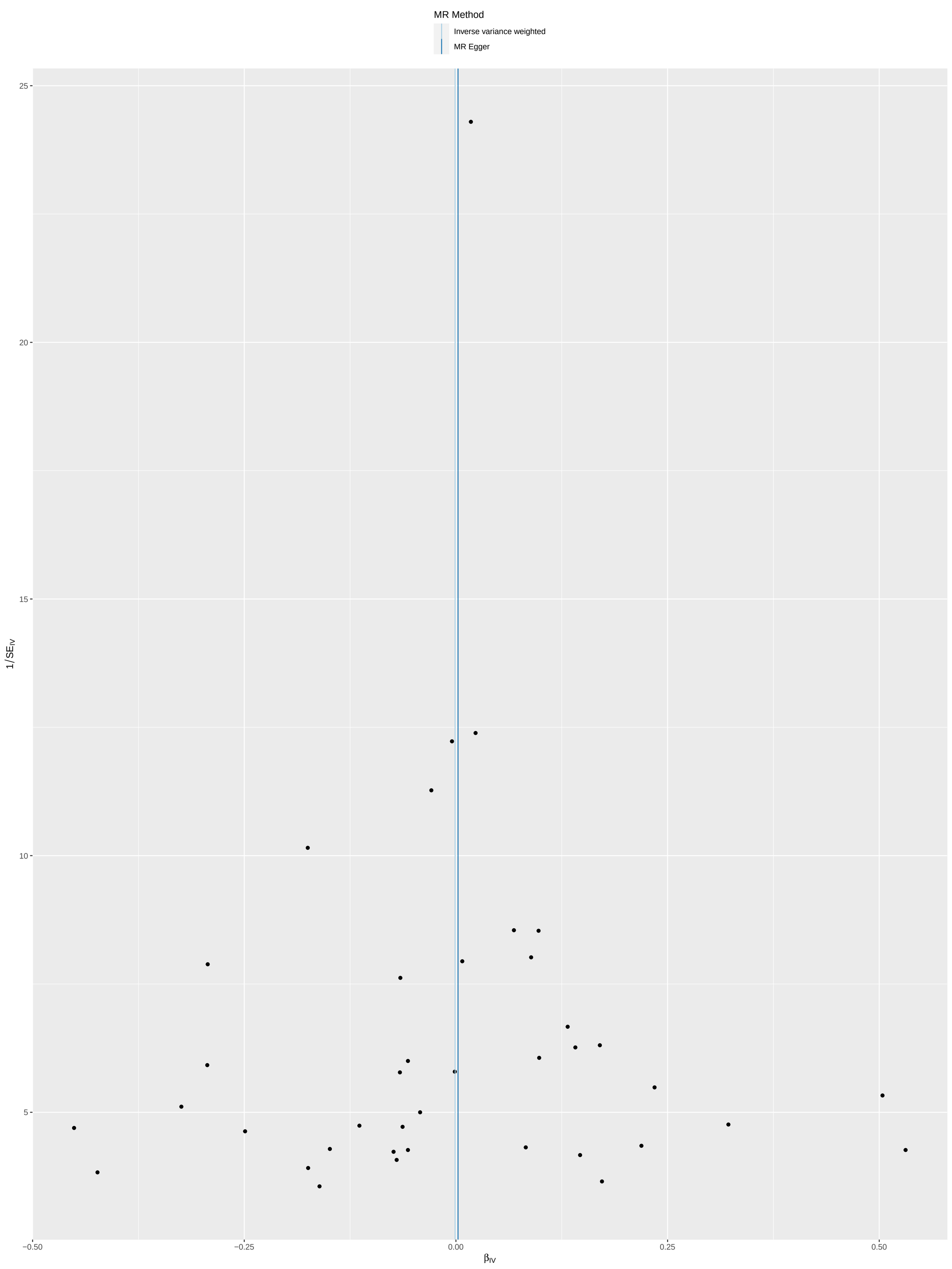
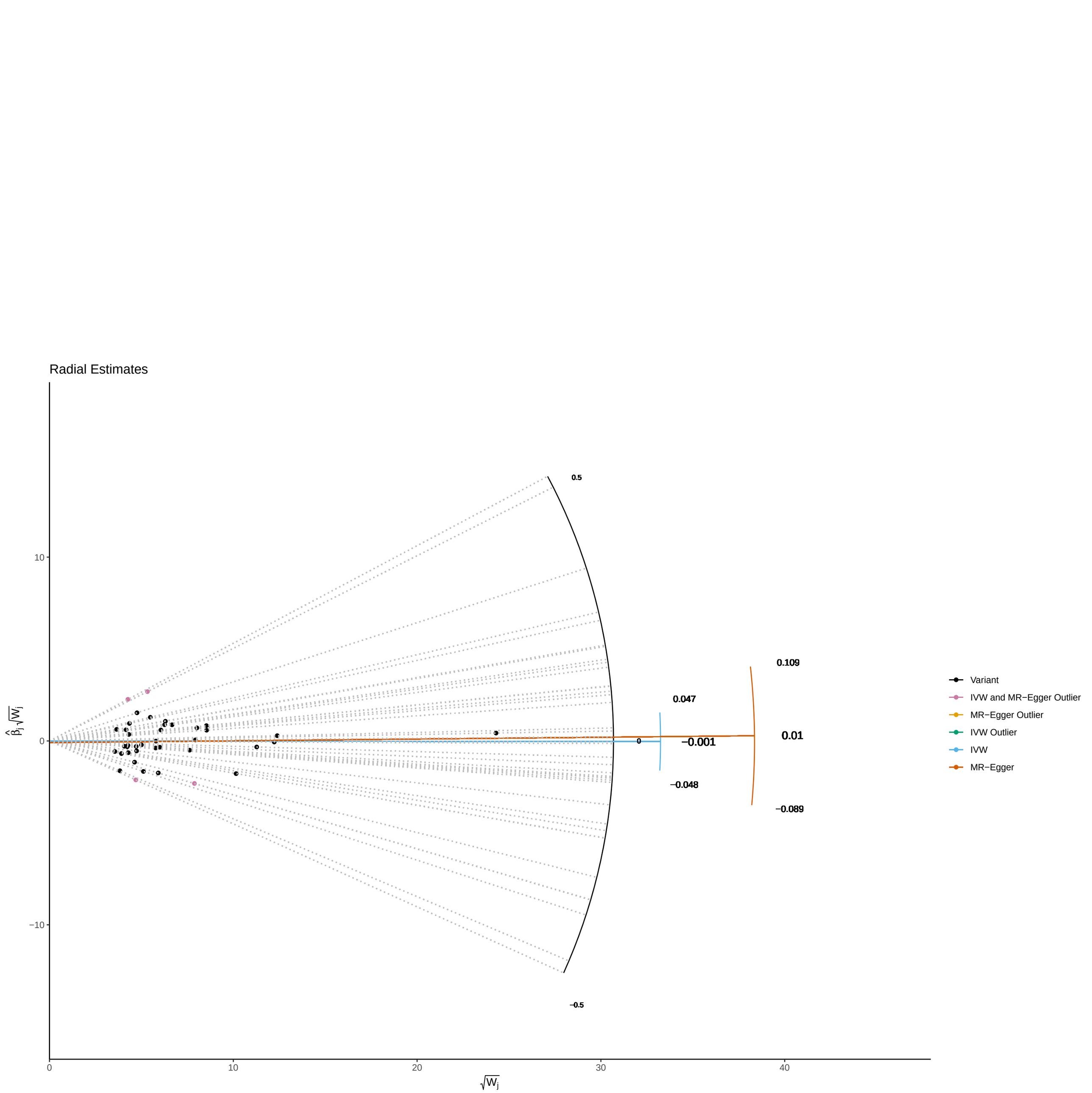
rs11964178
rs13134327
rs17747324
rs11619319
rs7616006
rs579459
rs1467311
rs9914988
rs592423
rs560887
rs17533903
rs6474359
rs9818758
rs174577
rs11603334
rs17509001
rs1046896
rs267738
rs10830963
rs7040409
rs837763
rs11558471
rs11248914
rs3782123
rs8192675
rs4737009
rs10774625
rs11708067
rs4745982
All
−0.06
−0.03
0.00
0.03
MR leave−one−out sensitivity analysis for
'Glycated haemoglobin' on 'Risk tolerance'


MR Method
Inverse variance weighted
MR Egger
25
20
15
10
5
1/SE_IV
−0.50
−0.25
0.00
0.25
0.50
β_IV

Radial Estimates



MR Test

Inverse variance weighted
MR Egger
Simple mode
Weighted median
Weighted mode

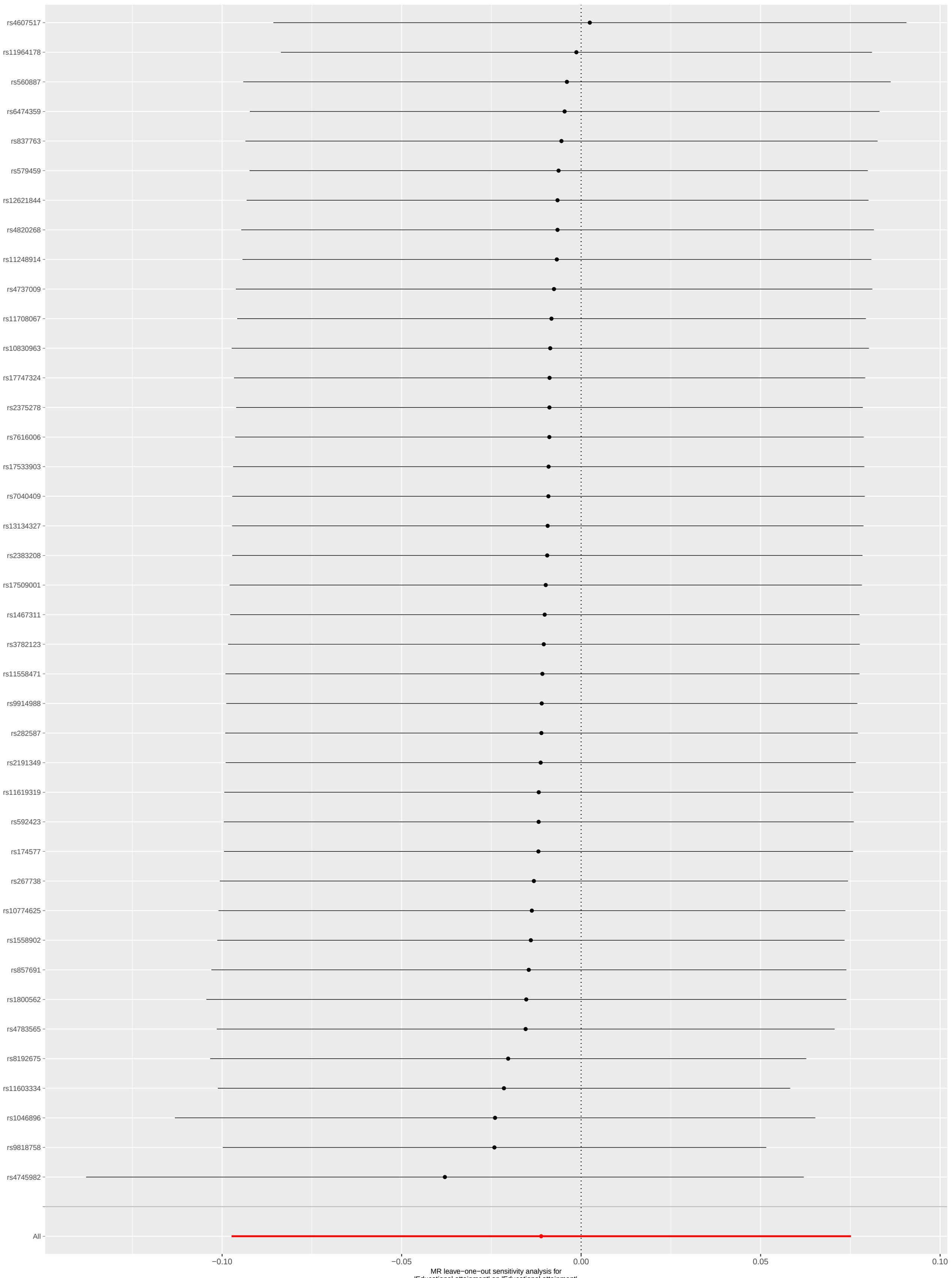
SNP effect on Educational attainment

0.02
0.01
0.00
−0.01

0.025
0.050
0.075
0.100

SNP effect on Educational attainment

rs9818758
rs11603334
rs8192675
rs4783565
rs10774625
rs1558902
rs267738
rs1046896
rs174577
rs857691
rs11619319
rs1800562
rs592423
rs4745982
rs2191349
rs282587
rs9914988
rs11558471
rs3782123
rs10830963
rs17509001
rs560887
rs4737009
rs7040409
rs13134327
rs1467311
rs17533903
rs2383208
rs17747324
rs4820268
rs837763
rs7616006
rs11708067
rs4607517
rs11248914
rs6474359
rs2375278
rs12621844
rs579459
rs11964178
All − MR Egger
All − Inverse variance weighted
−1
0
1
MR effect size for
'Educational attainment' on 'Educational attainment'


rs4607517
rs11964178
rs560887
rs6474359
rs837763
rs579459
rs12621844
rs4820268
rs11248914
rs4737009
rs11708067
rs10830963
rs17747324
rs2375278
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rs11558471
rs9914988
rs282587
rs2191349
rs11619319
rs592423
rs174577
rs267738
rs10774625
rs1558902
rs857691
rs1800562
rs4783565
rs8192675
rs11603334
rs1046896
rs9818758
rs4745982
All
−0.10
−0.05
0.00
0.05
0.10
MR leave−one−out sensitivity analysis for
'Educational attainment' on 'Educational attainment'

MR Test

Inverse variance weighted
MR Egger
Simple mode
Weighted median
Weighted mode

SNP effect on Educational attainment

0.02
0.01
0.00
−0.01

0.025
0.050
0.075
0.100

SNP effect on Educational attainment

rs9818758
rs11603334
rs8192675
rs4783565
rs10774625
rs1558902
rs267738
rs1046896
rs174577
rs857691
rs11619319
rs1800562
rs592423
rs4745982
rs2191349
rs282587
rs9914988
rs11558471
rs3782123
rs10830963
rs17509001
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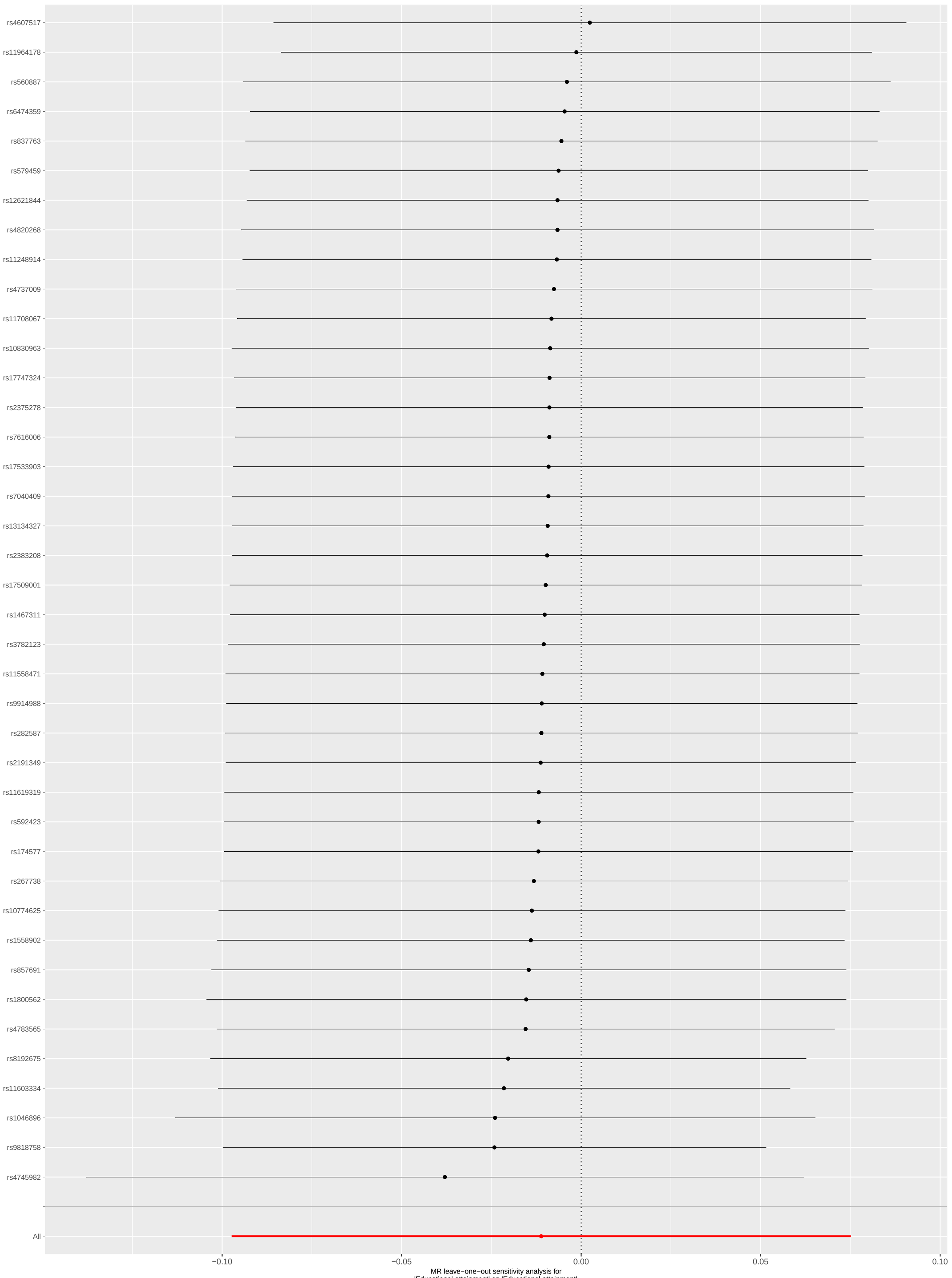
rs4737009
rs7040409
rs13134327
rs1467311
rs17533903
rs2383208
rs17747324
rs4820268
rs837763
rs7616006
rs11708067
rs4607517
rs11248914
rs6474359
rs2375278
rs12621844
rs579459
rs11964178
All − MR Egger
All − Inverse variance weighted
−1
0
1
MR effect size for
'Educational attainment' on 'Educational attainment'


rs4607517
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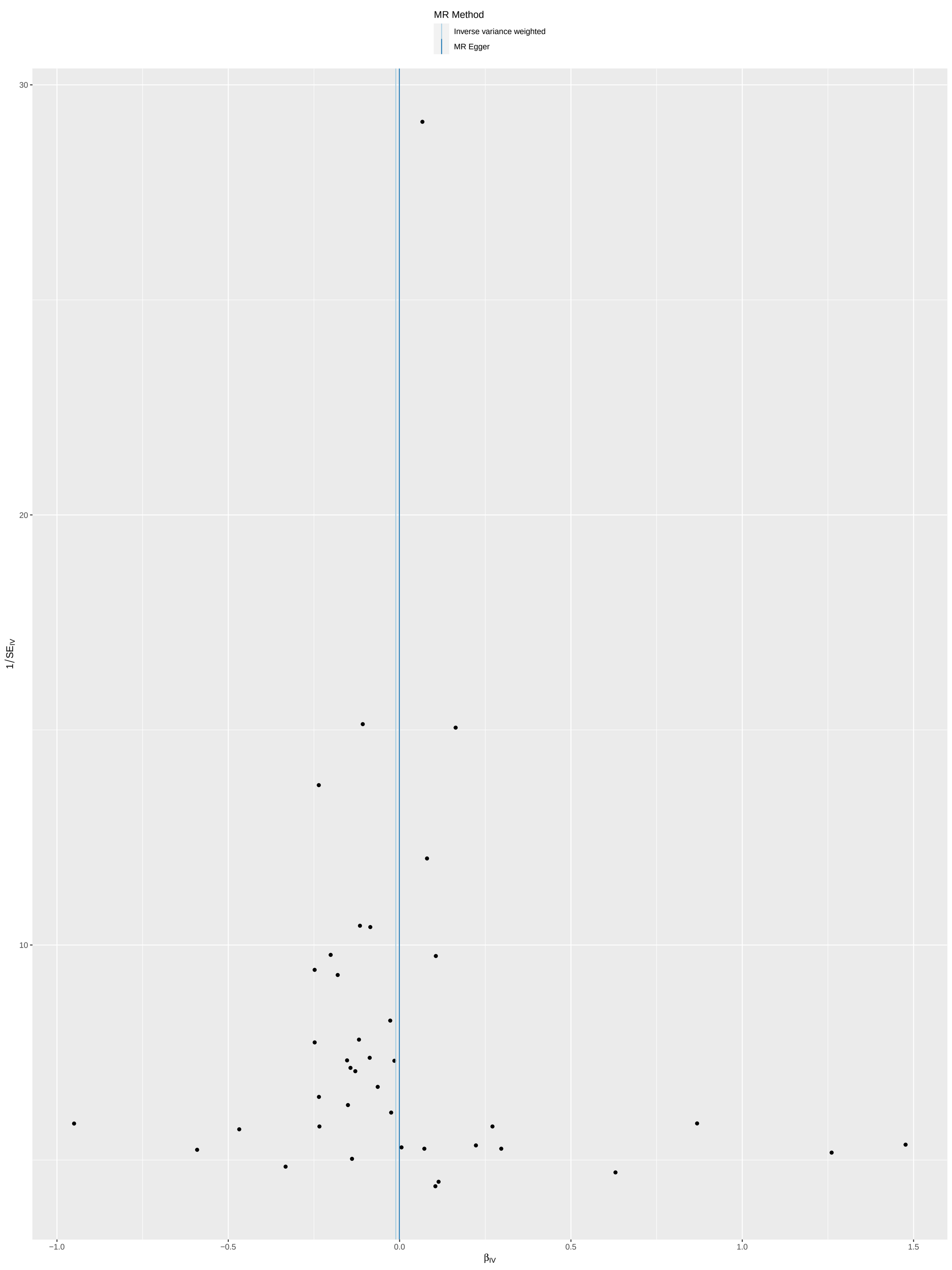
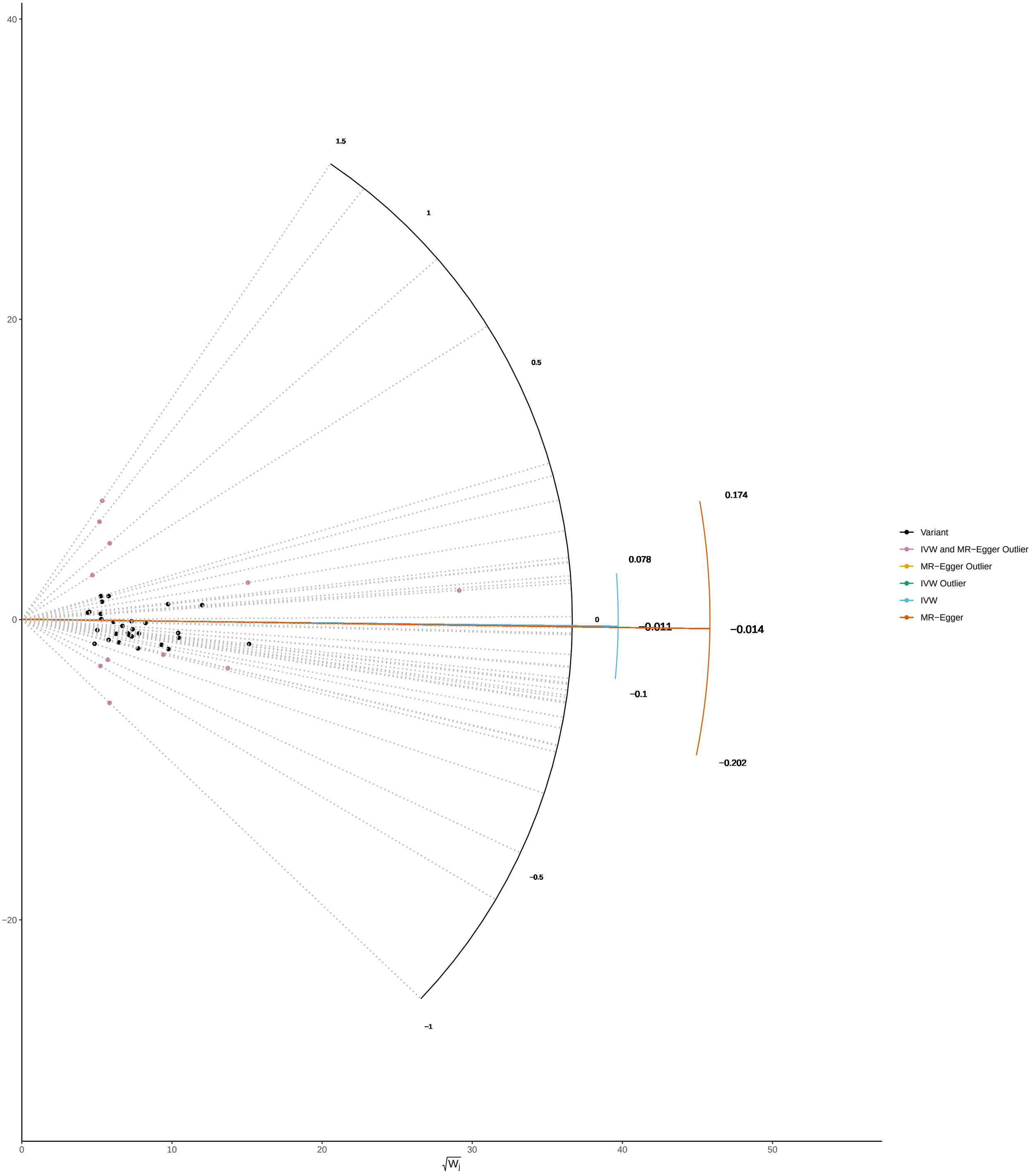
rs11708067
rs10830963
rs17747324
rs2375278
rs7616006
rs17533903
rs7040409
rs13134327
rs2383208
rs17509001
rs1467311
rs3782123
rs11558471
rs9914988
rs282587
rs2191349
rs11619319
rs592423
rs174577
rs267738
rs10774625
rs1558902
rs857691
rs1800562
rs4783565
rs8192675
rs11603334
rs1046896
rs9818758
rs4745982
All
−0.10
−0.05
0.00
0.05
0.10
MR leave−one−out sensitivity analysis for
'Educational attainment' on 'Educational attainment'


MR Method
Inverse variance weighted
MR Egger
30
20
10
1/SE_IV
−1.0
−0.5
0.0
0.5
1.0
1.5
β_IV

Radial Estimates