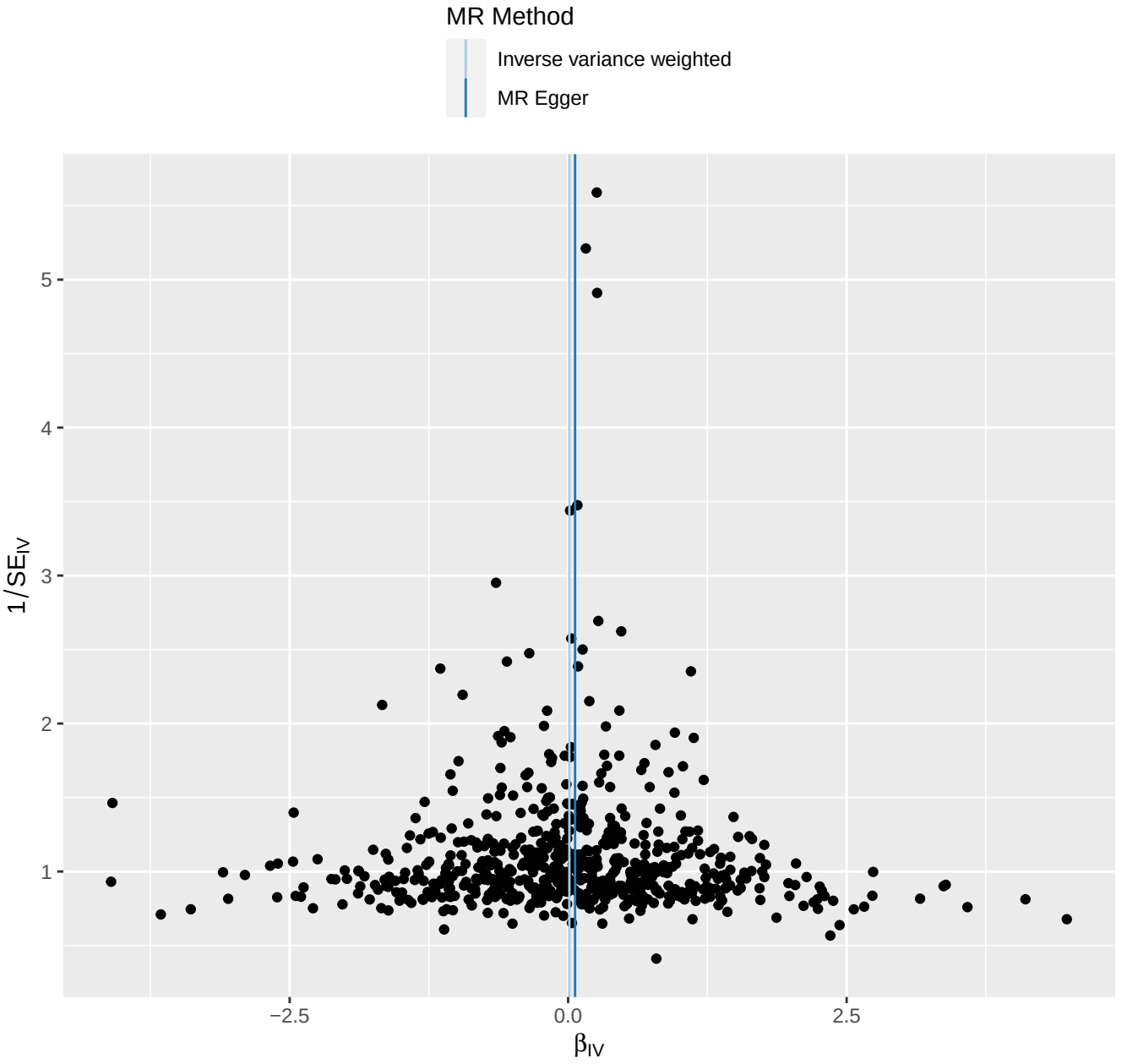
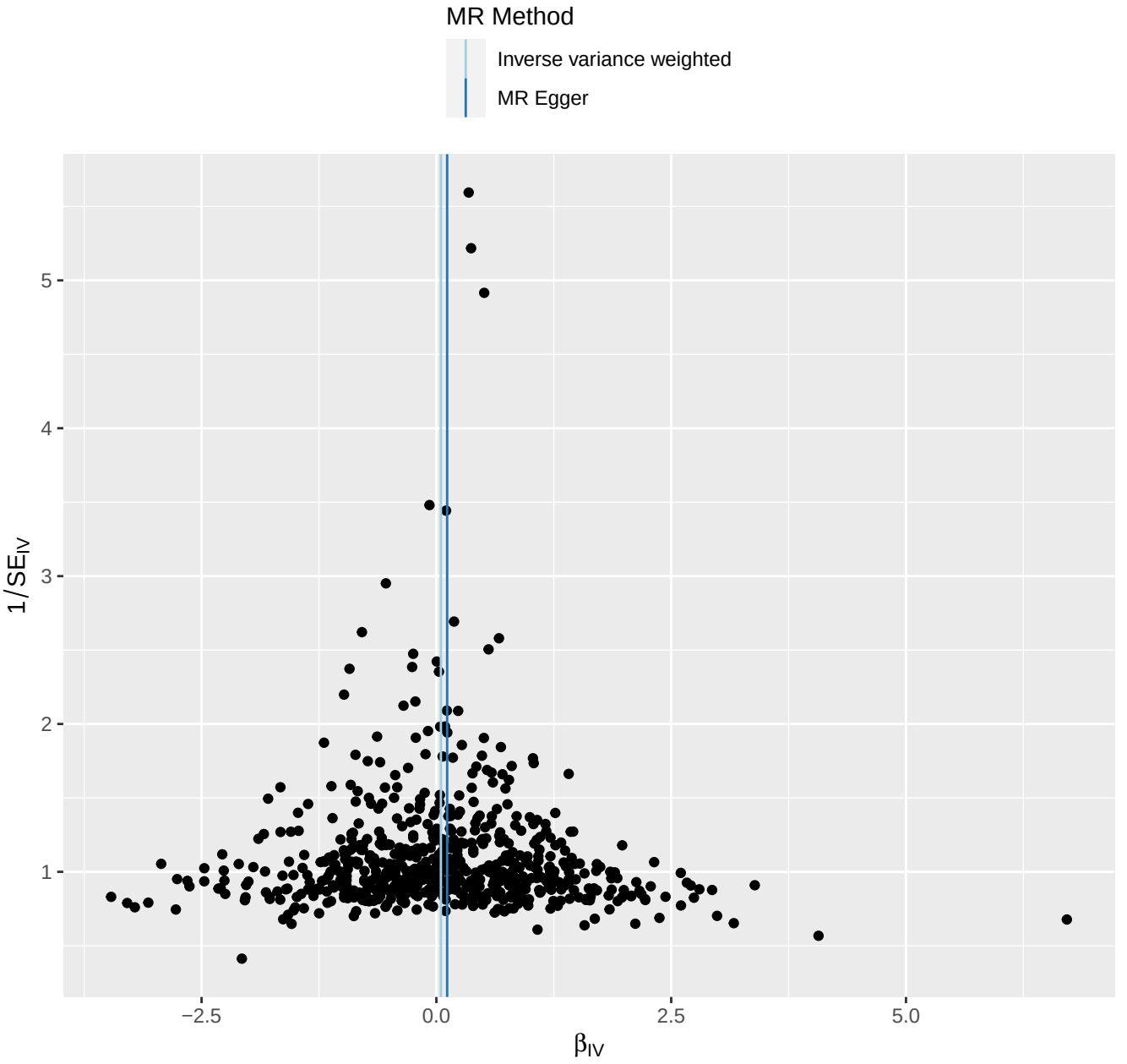
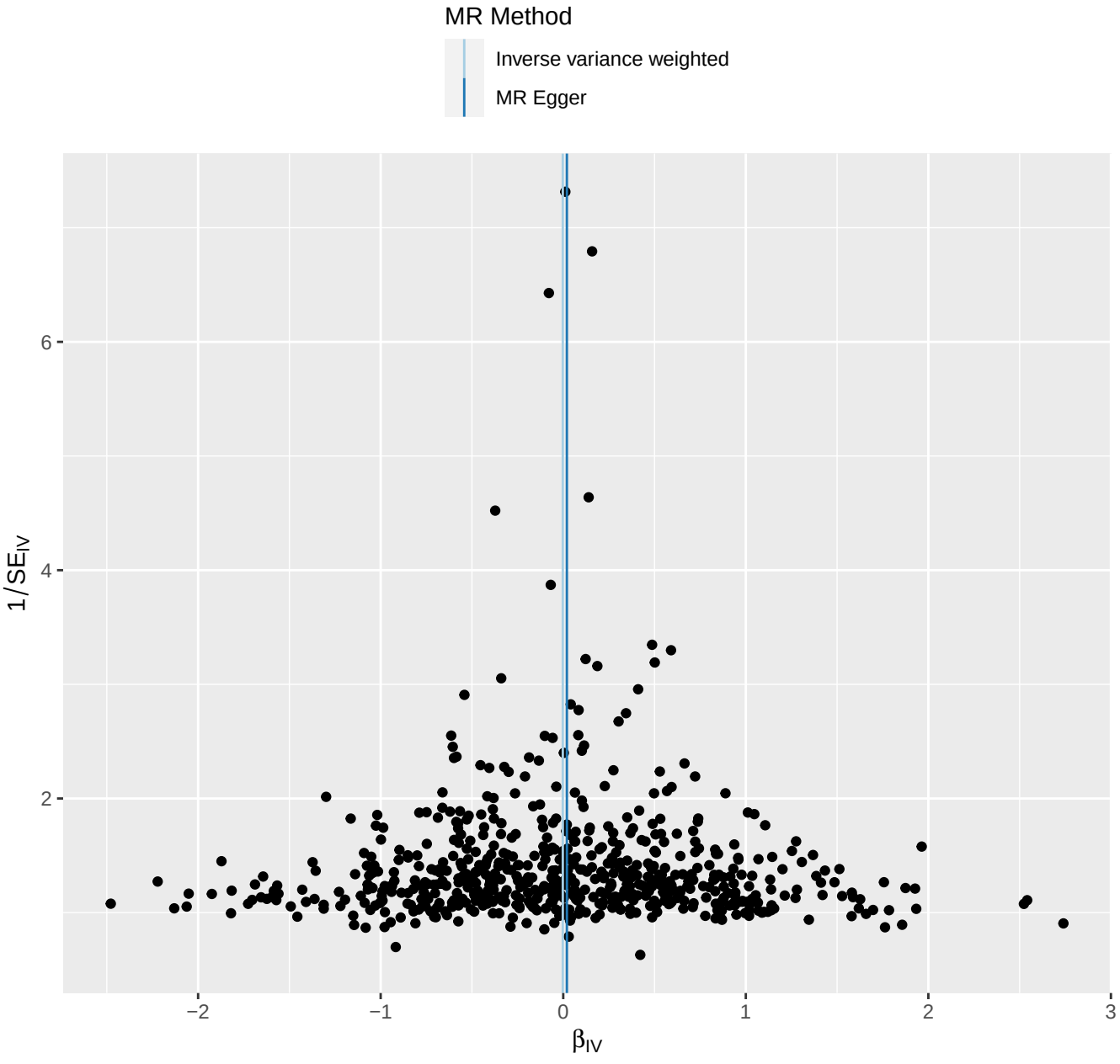
18:2, linoleic acid (LA)

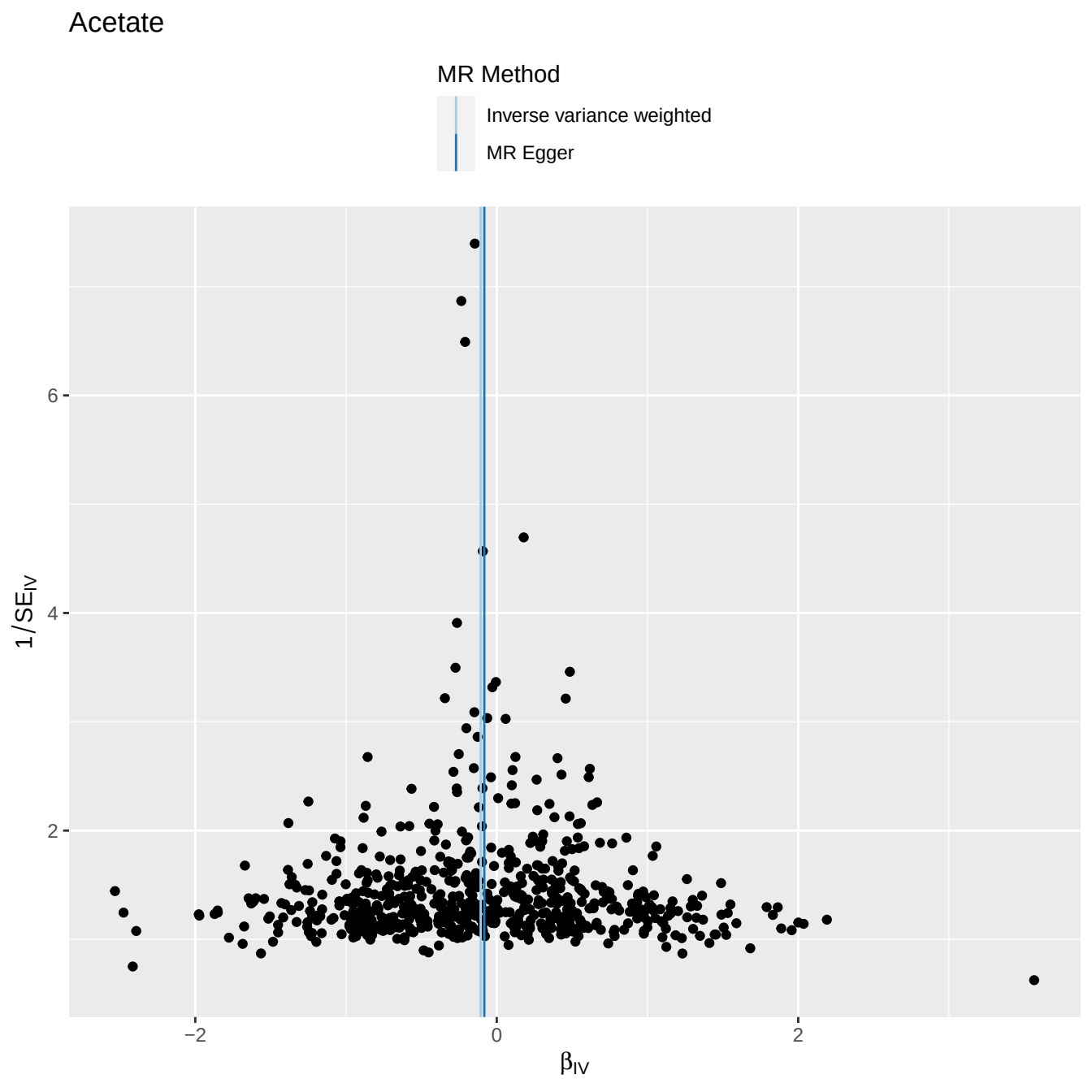


22:6, docosahexaenoic acid

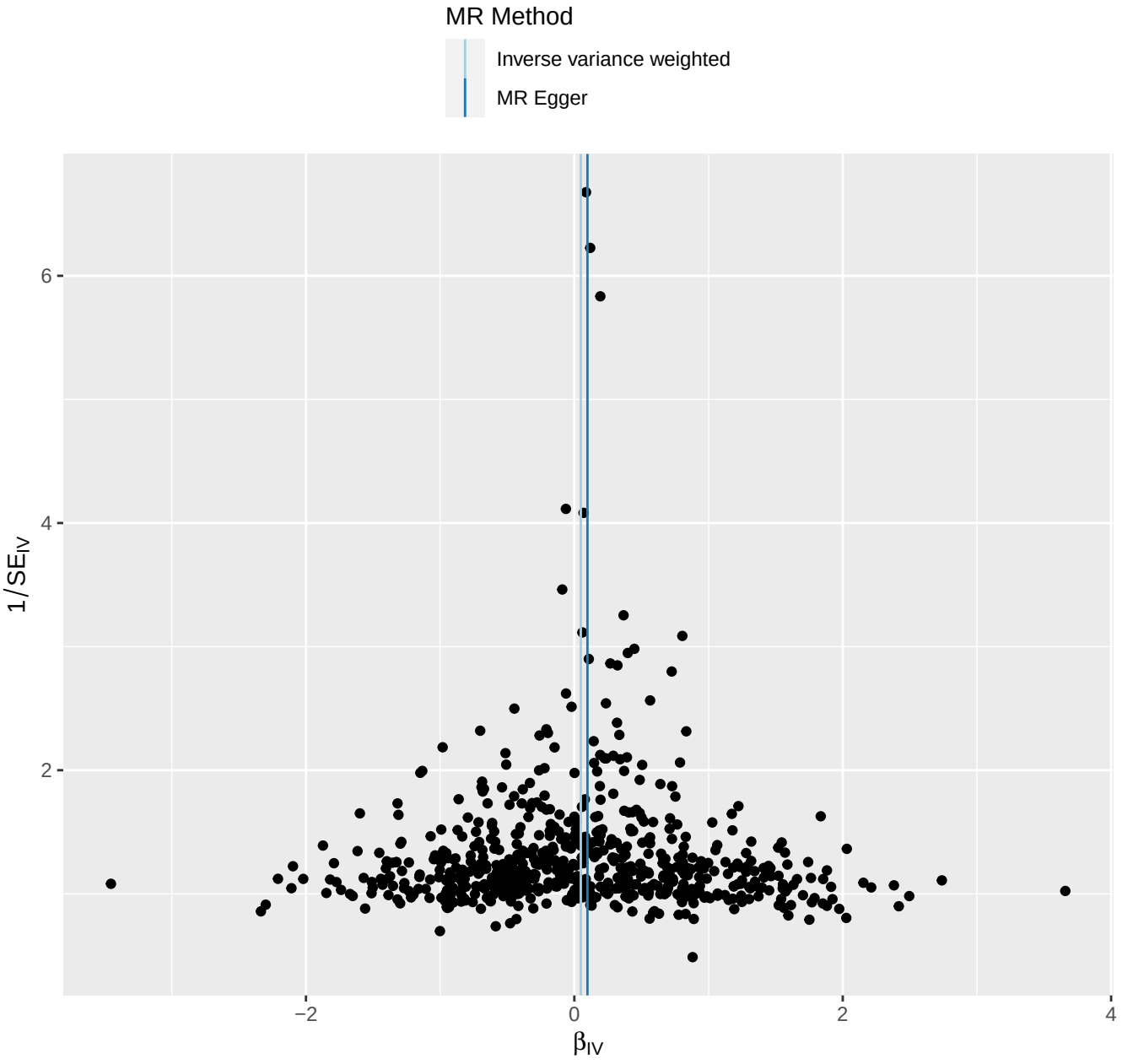


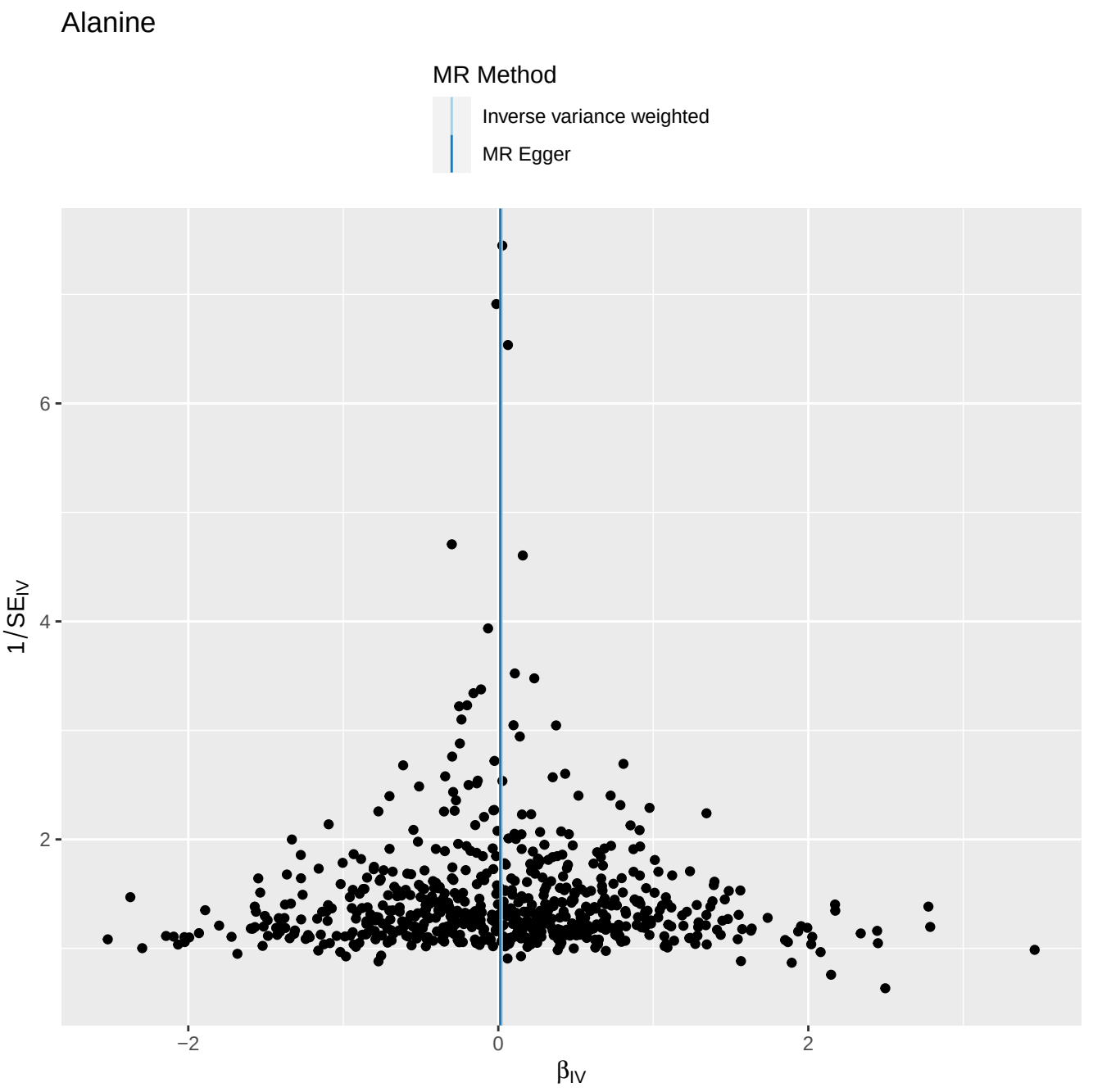
3−hydroxybutyrate

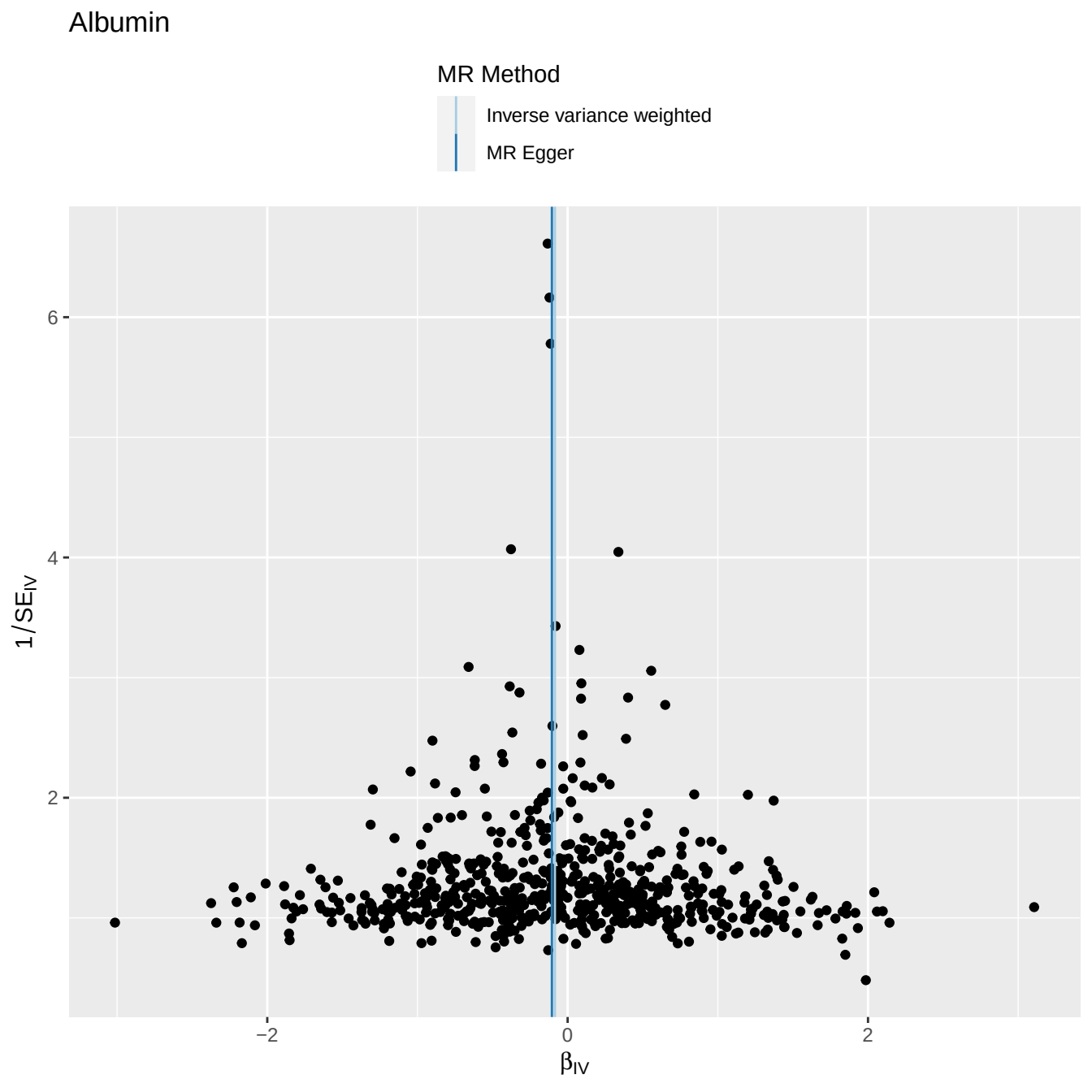



Acetate
MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2
0
2
β_IV

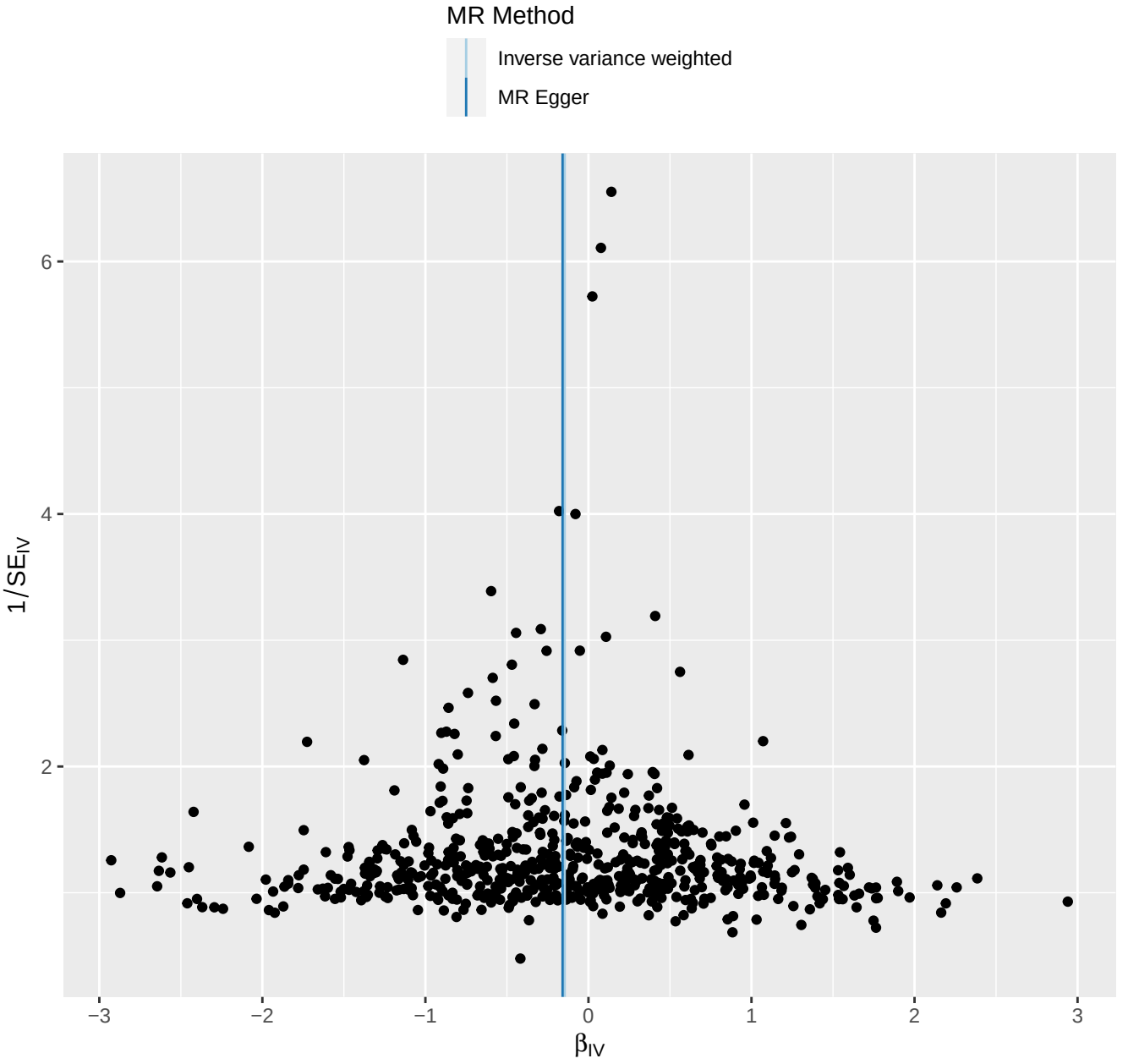
Acetoacetate



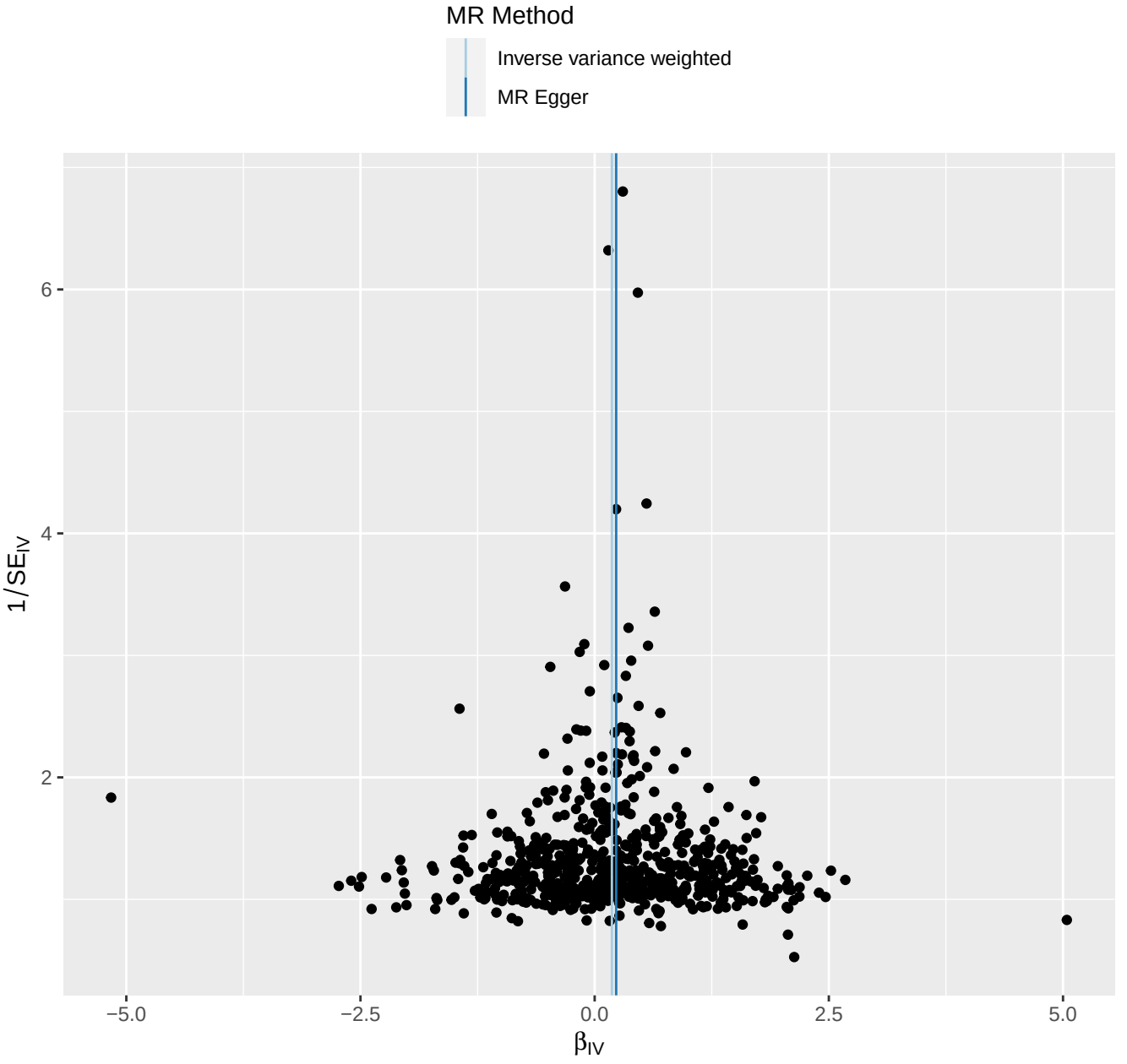

Alanine
MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2
0
2
β_IV


Albumin
MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2
0
2
β_IV

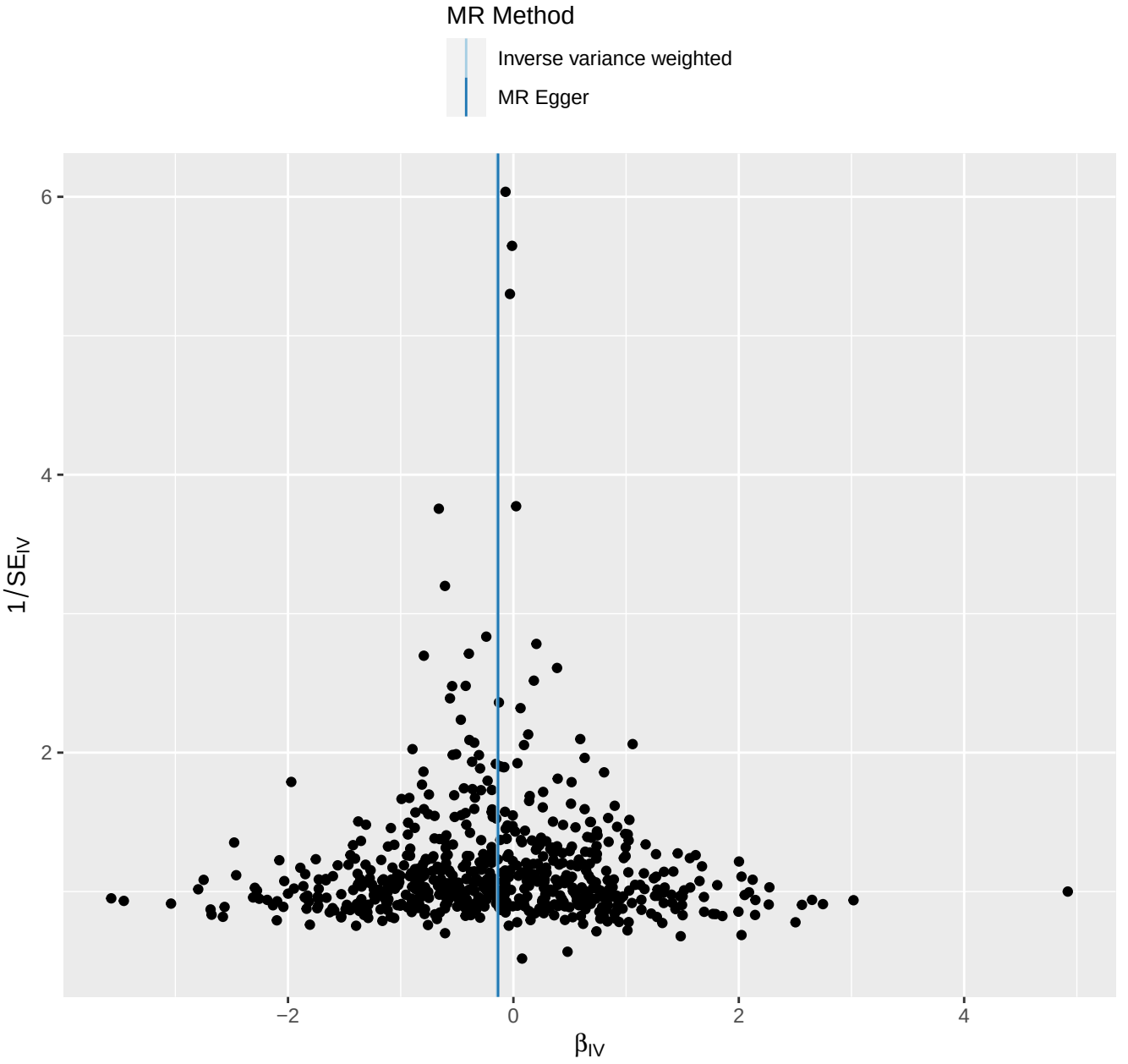
Apolipoprotein A−I



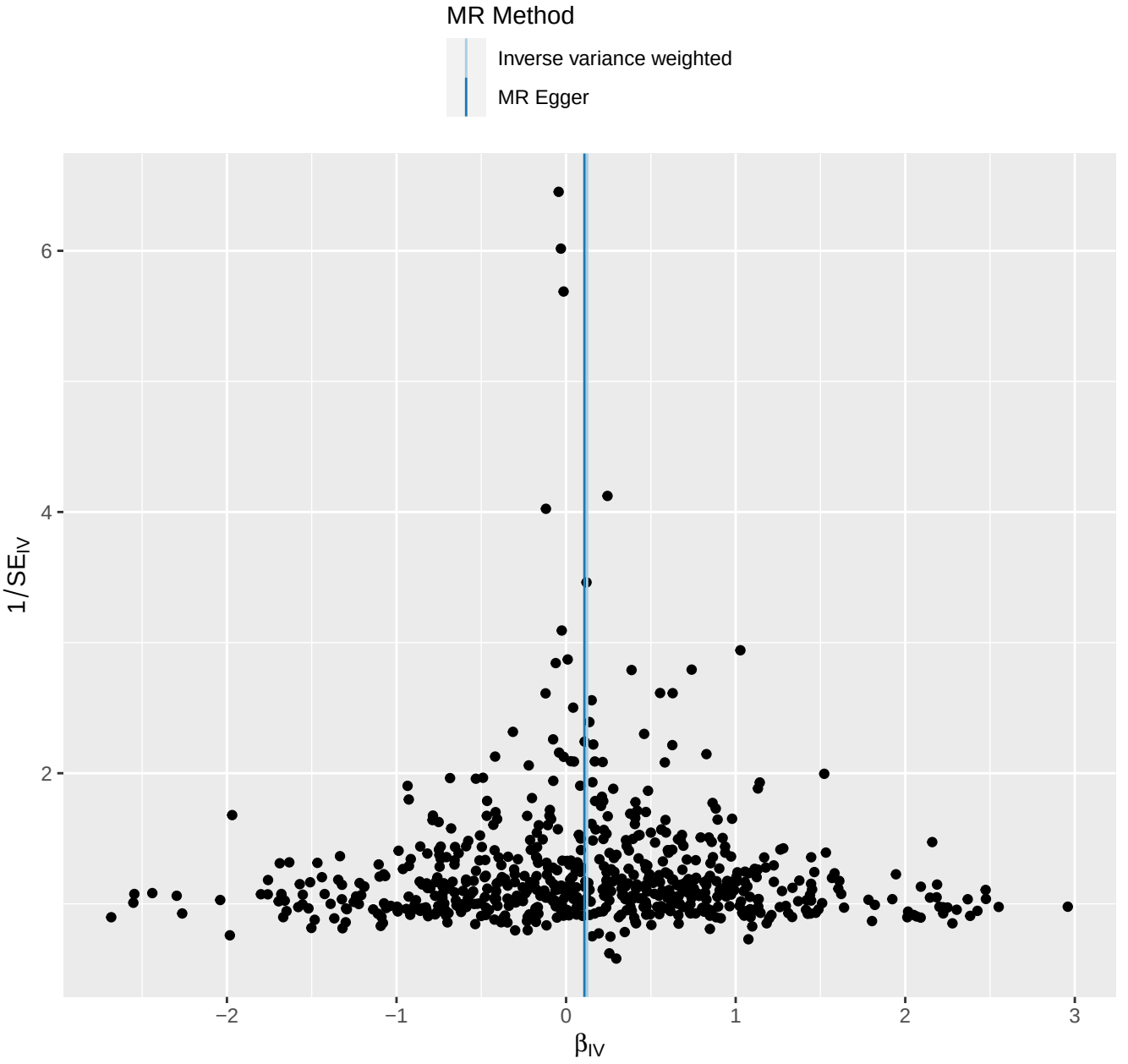
Apolipoprotein B



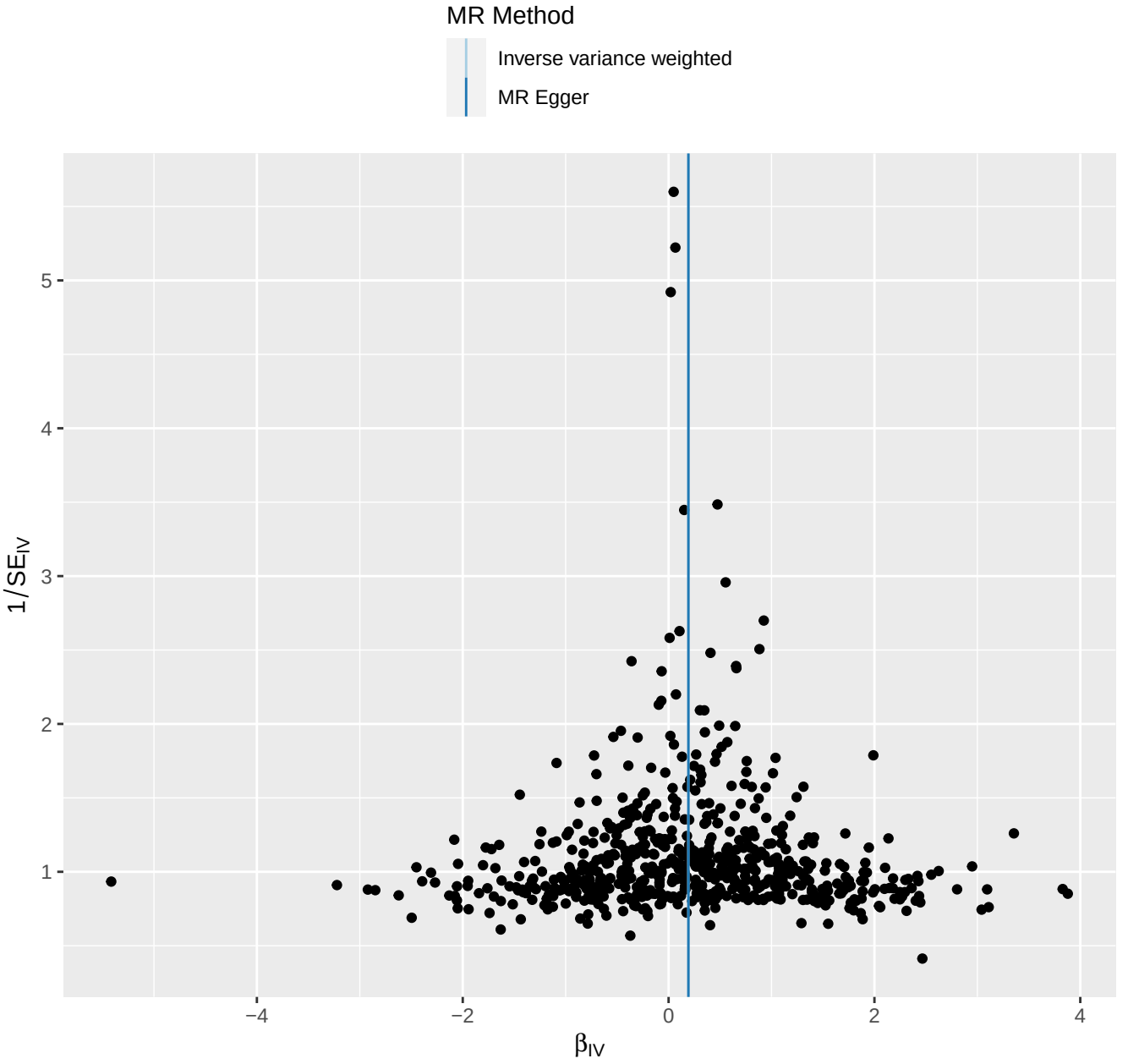
Average number of double bonds in a fatty acid chain



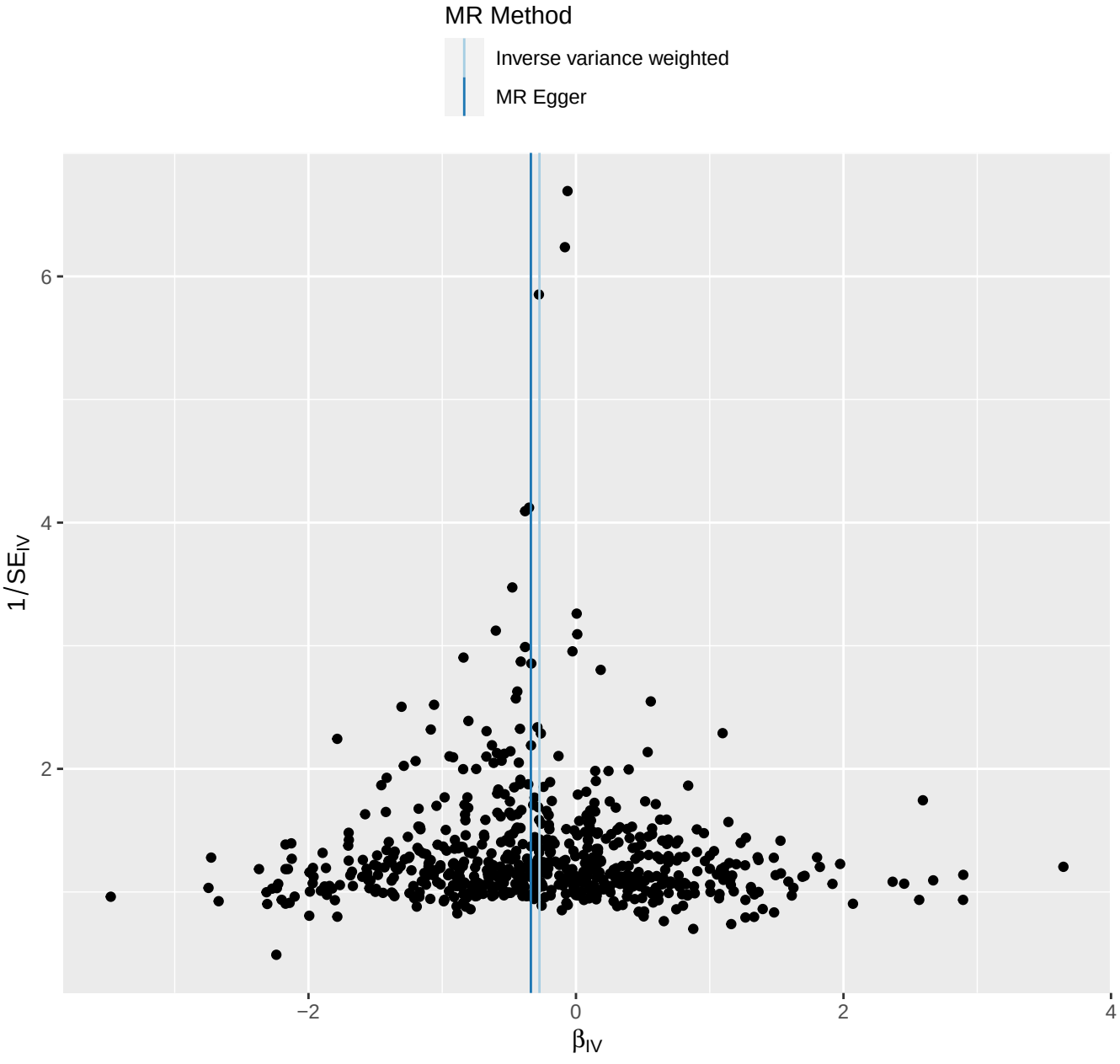
Average number of methylene groups in a fatty acid chain



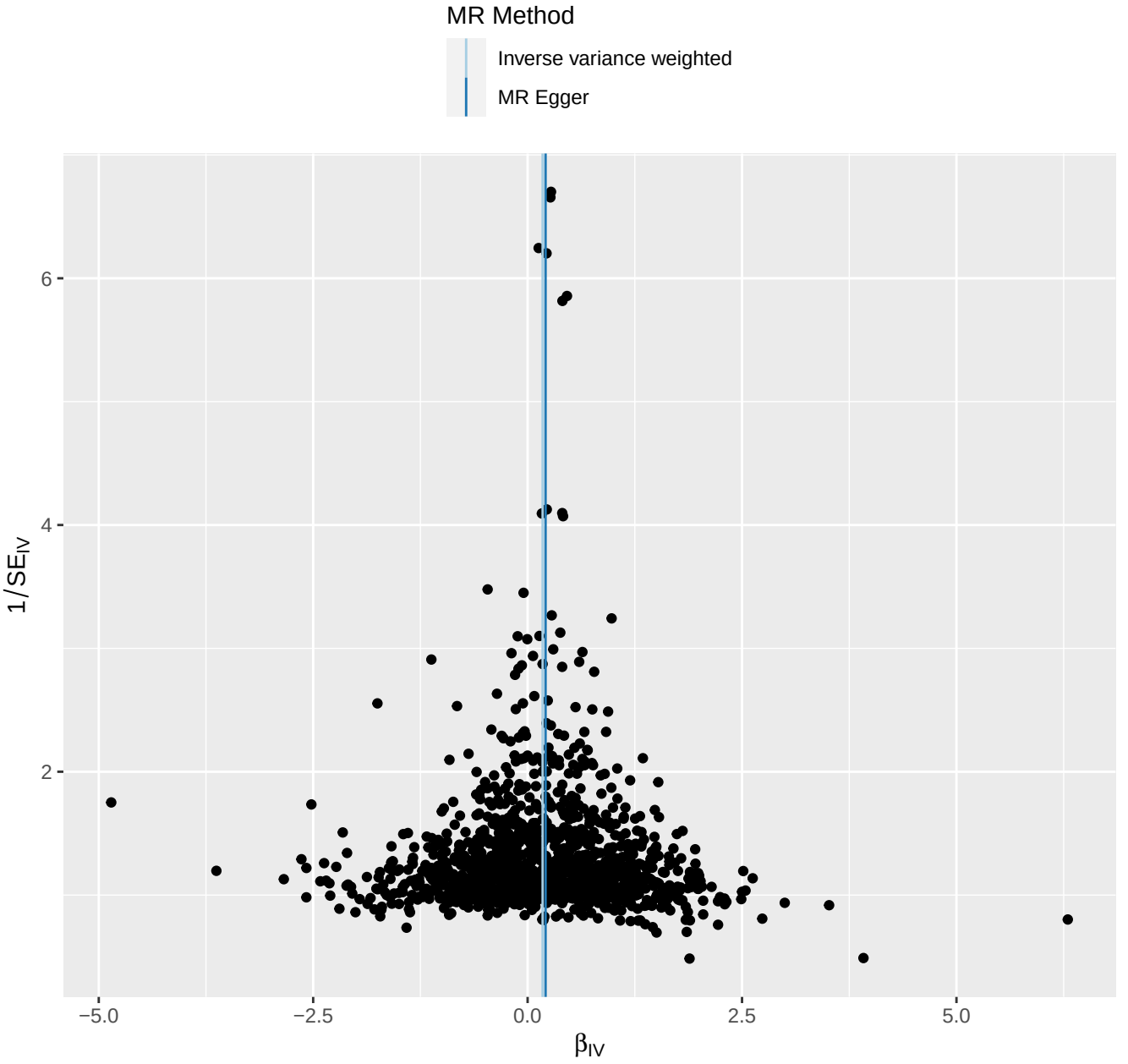
Average number of methylene groups per double bond



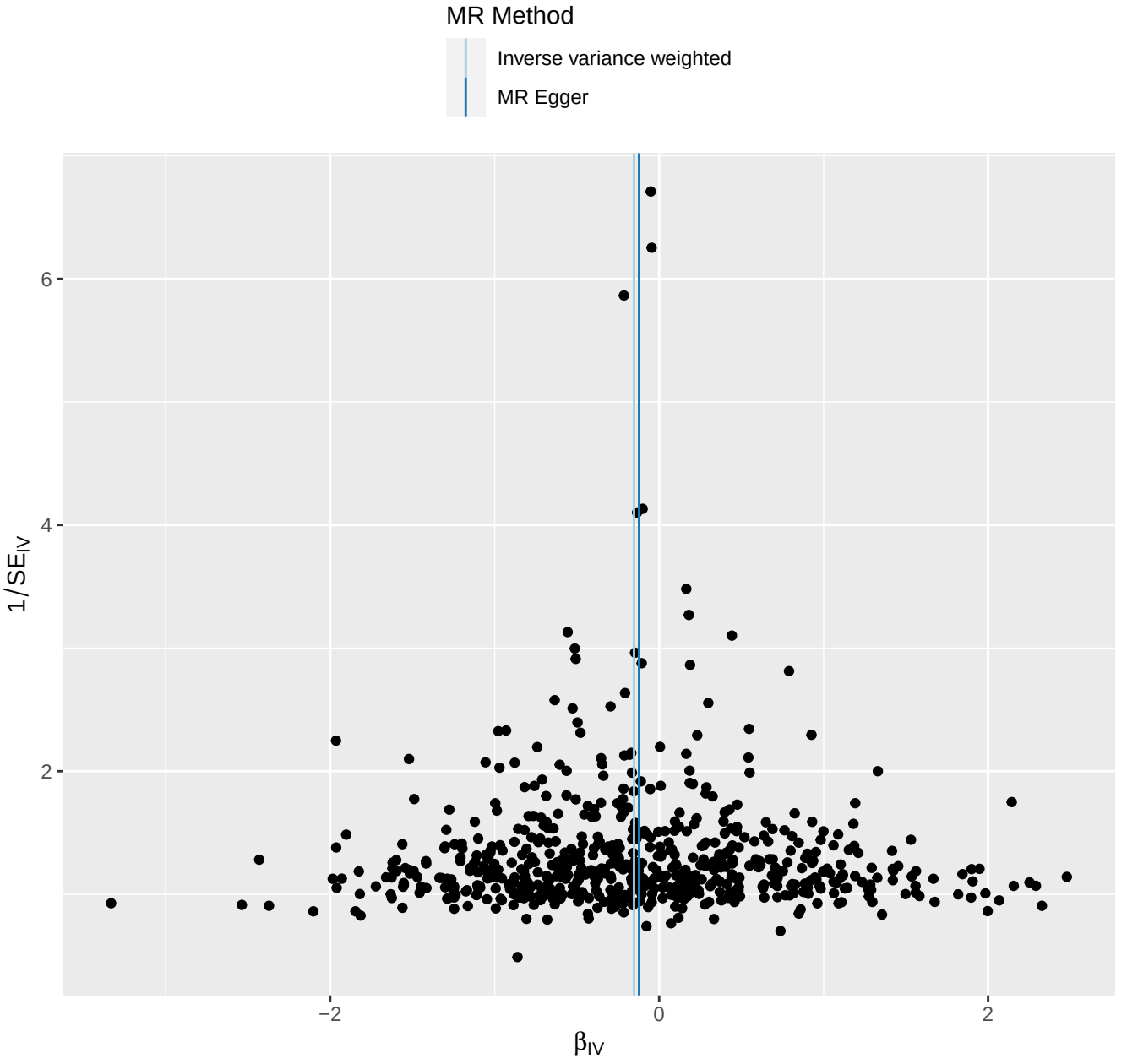
Cholesterol esters in large HDL



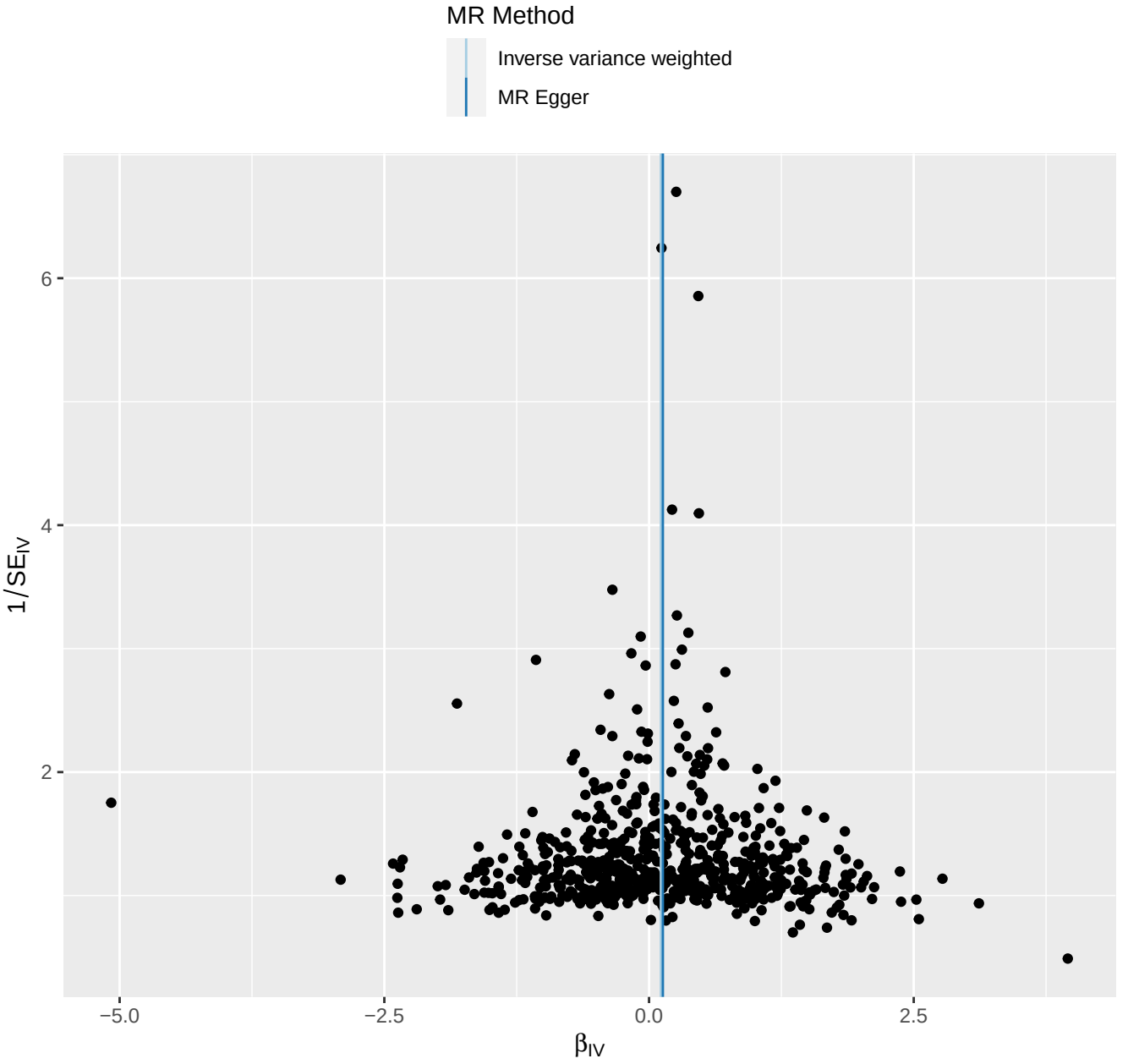
Cholesterol esters in large VLDL



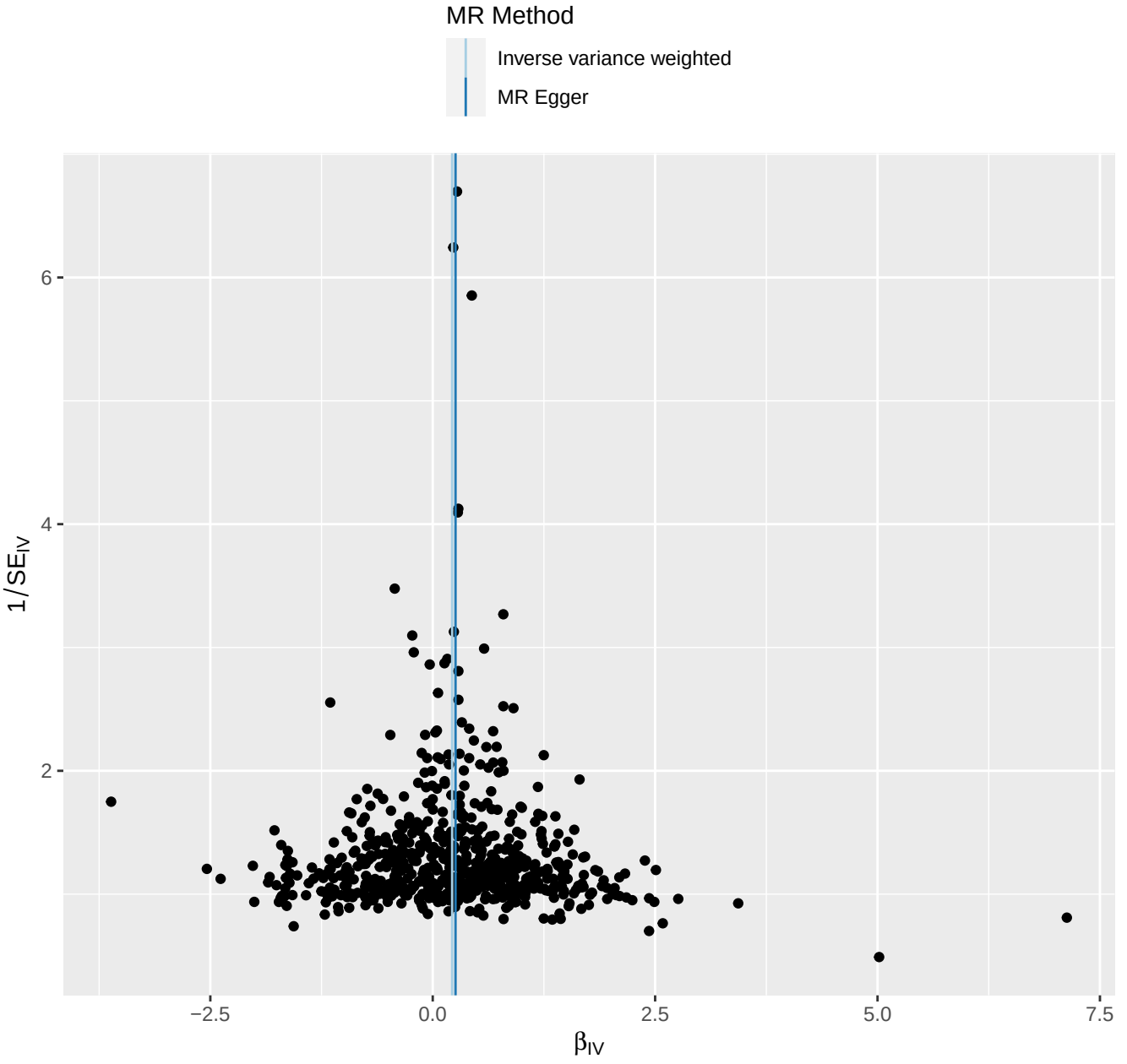
Cholesterol esters in medium HDL



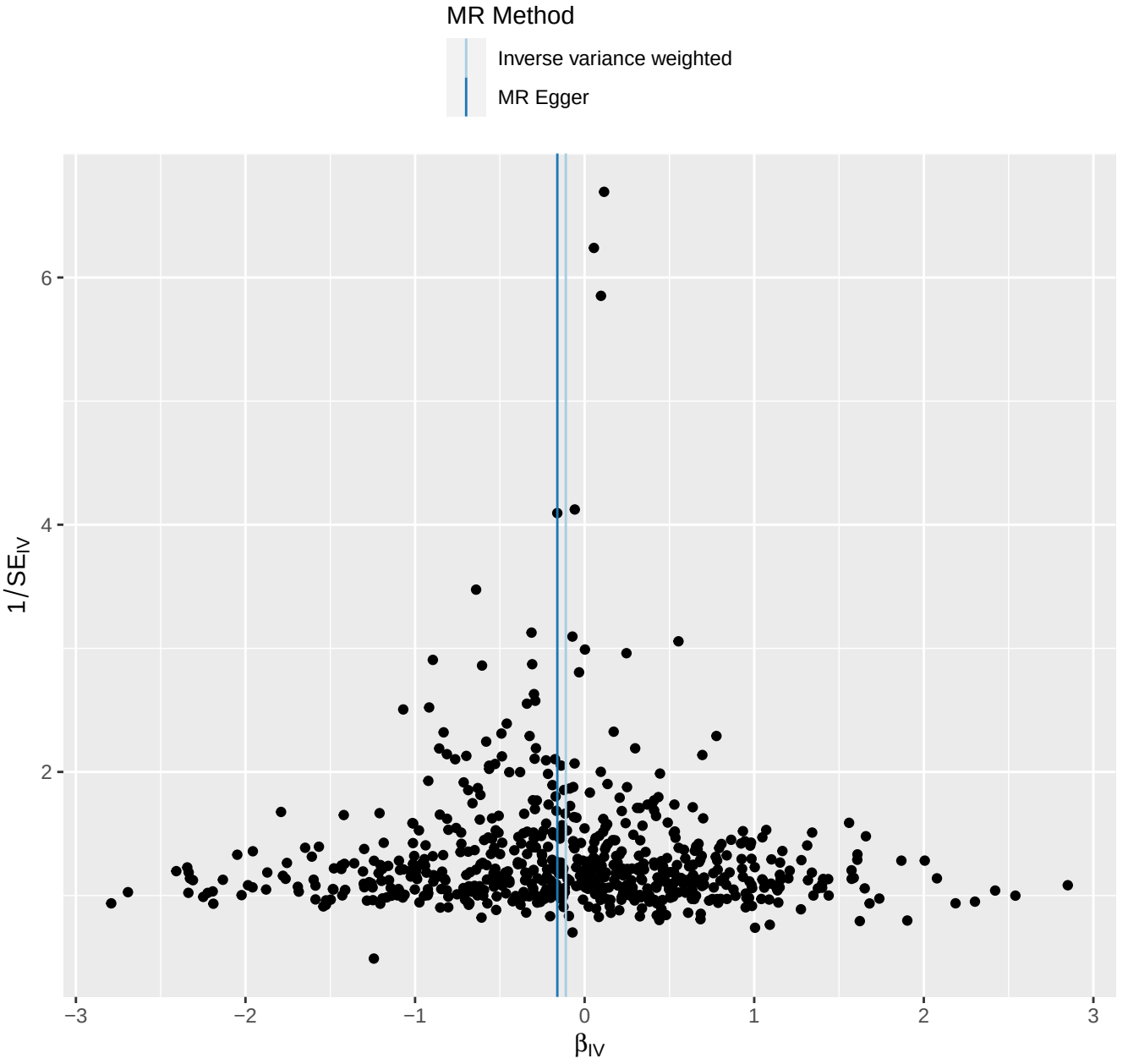
Cholesterol esters in medium LDL



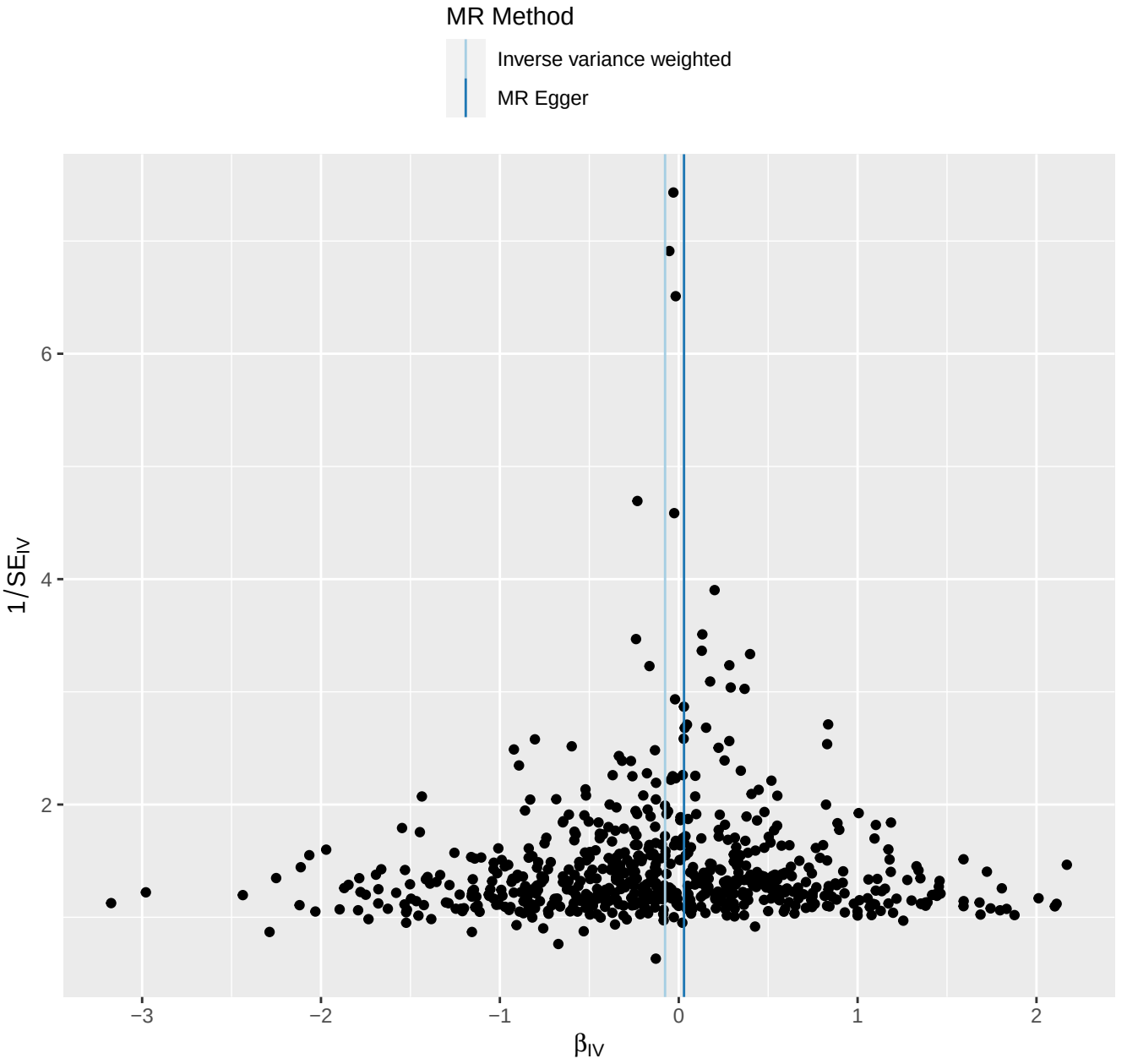
Cholesterol esters in medium VLDL

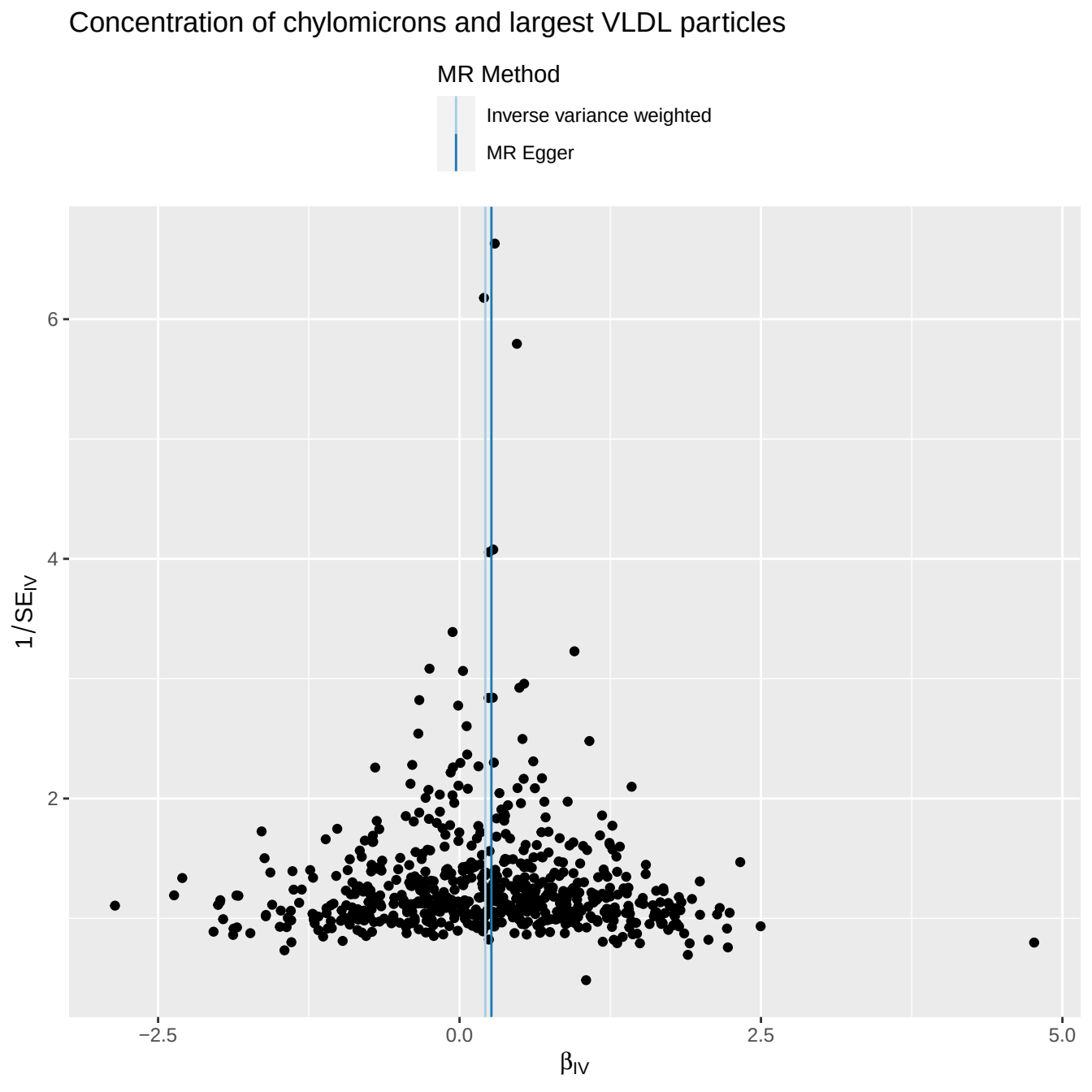


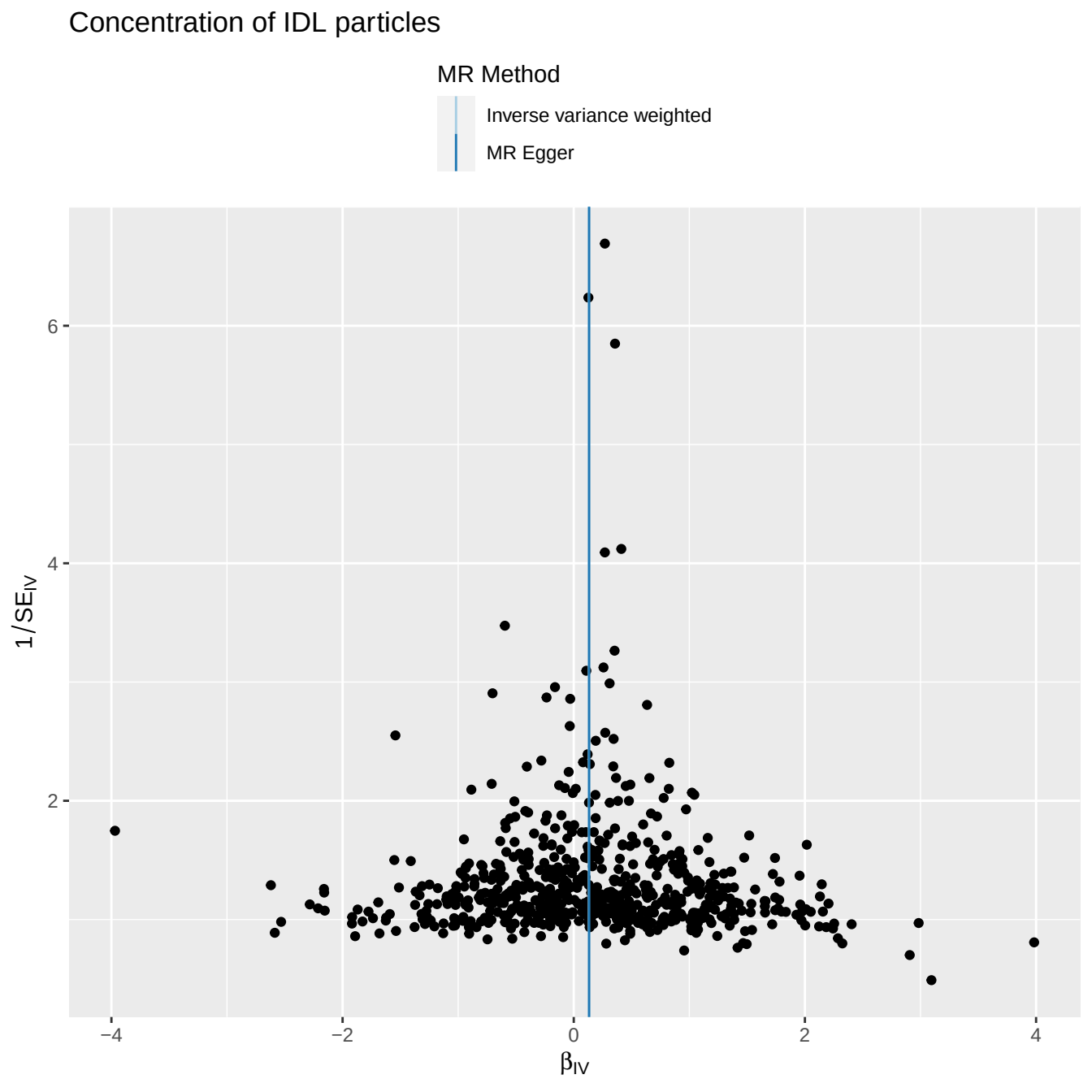
Cholesterol esters in very large HDL

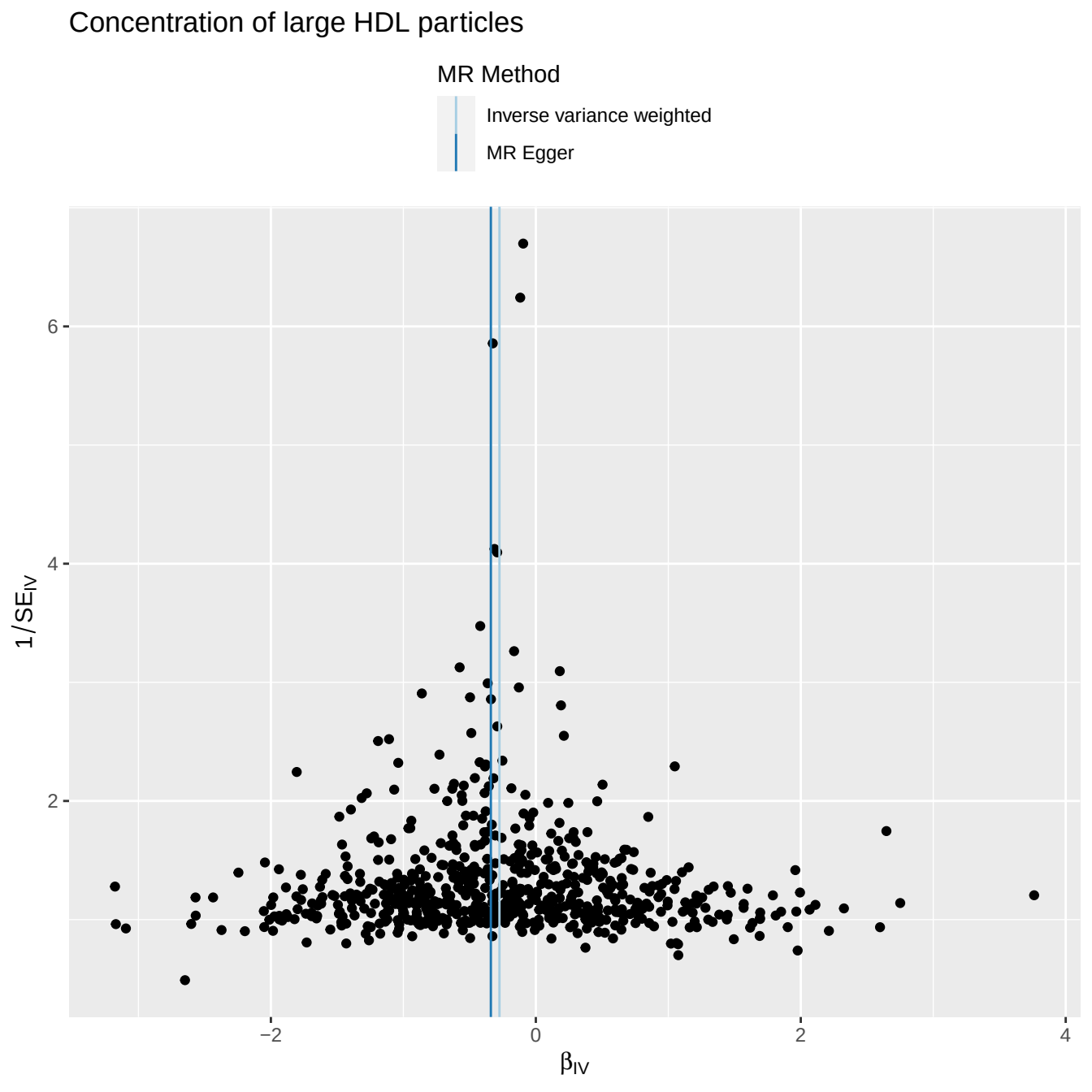


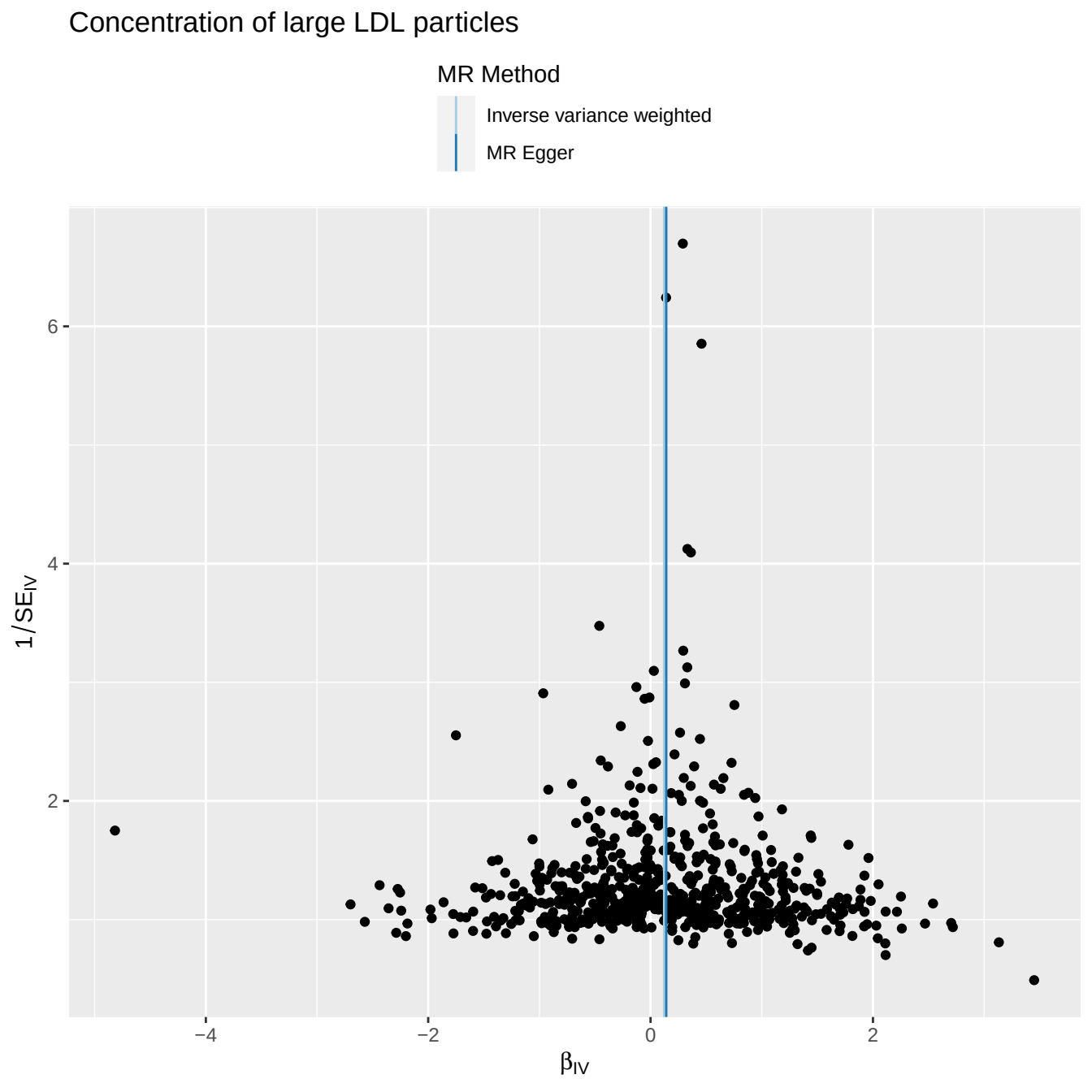
Citrate

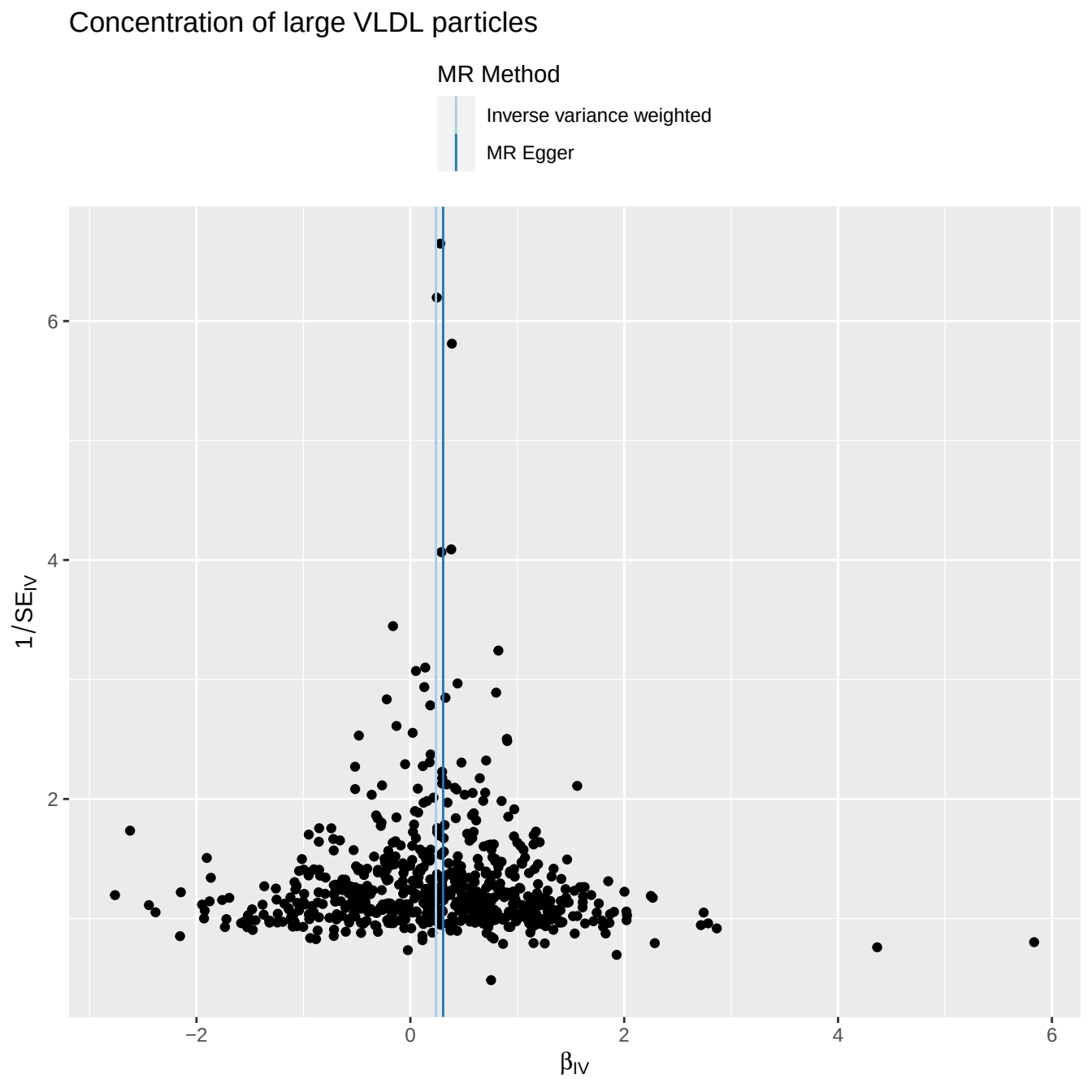

MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−3
−2
−1
0
1
2
β_IV


Concentration of chylomicrons and largest VLDL particles
MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2.5
0.0
2.5
5.0
β_IV

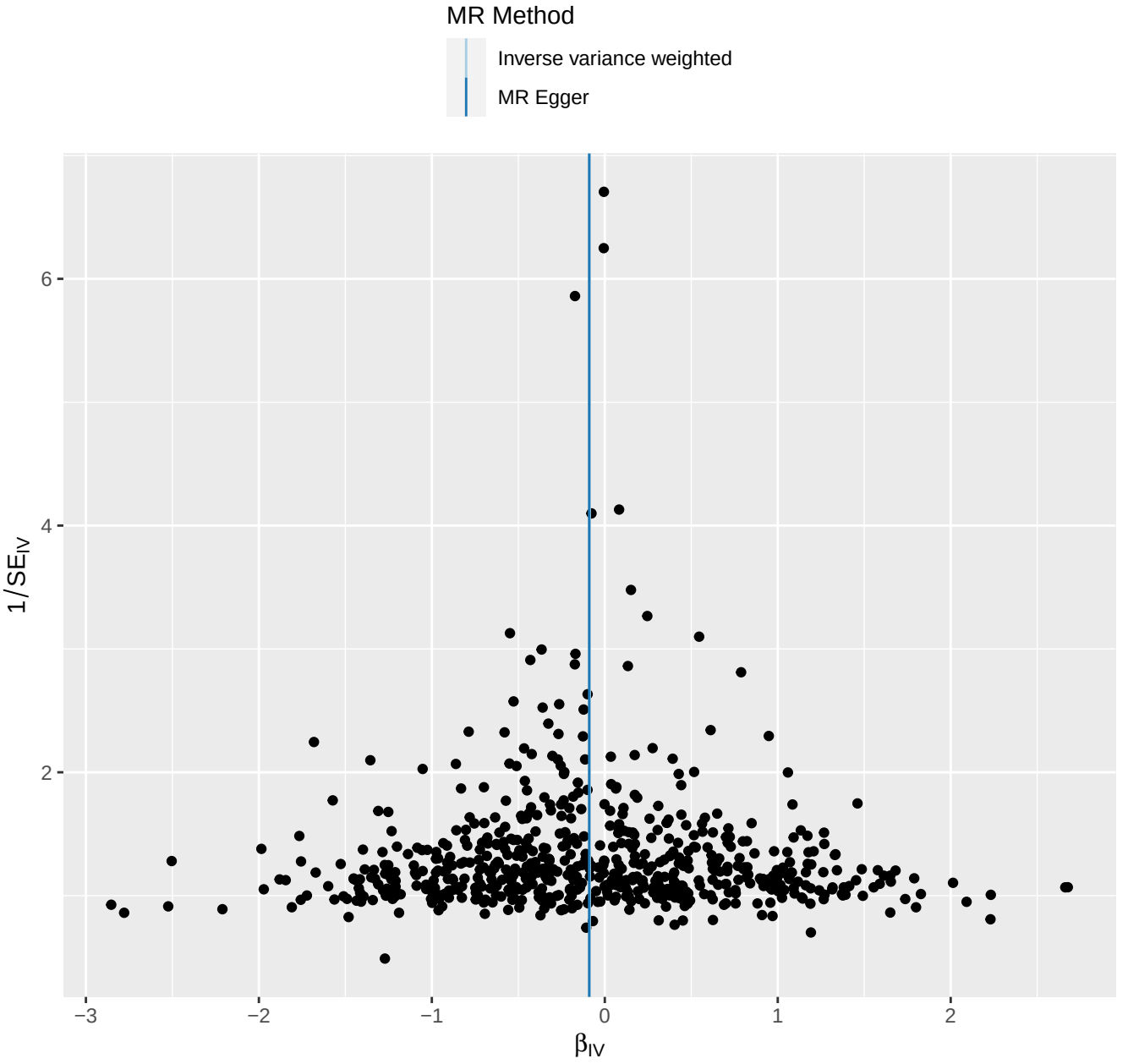

Concentration of IDL particles
MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−4
−2
0
2
4
β_IV


Concentration of large HDL particles
MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2
0
2
4
β_IV

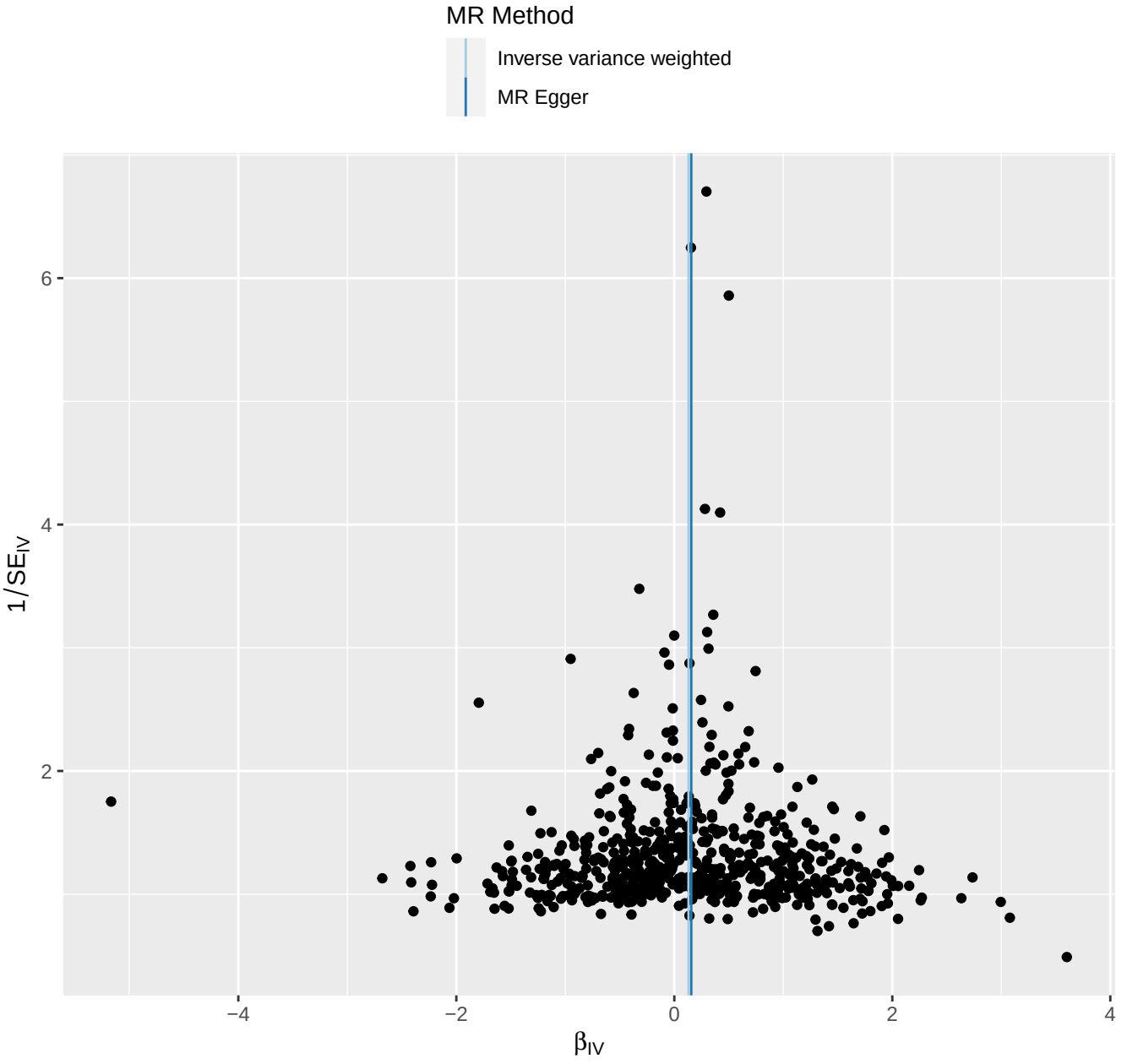

Concentration of large LDL particles
MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−4
−2
0
2
β_IV


Concentration of large VLDL particles
MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2
0
2
4
6
β_IV

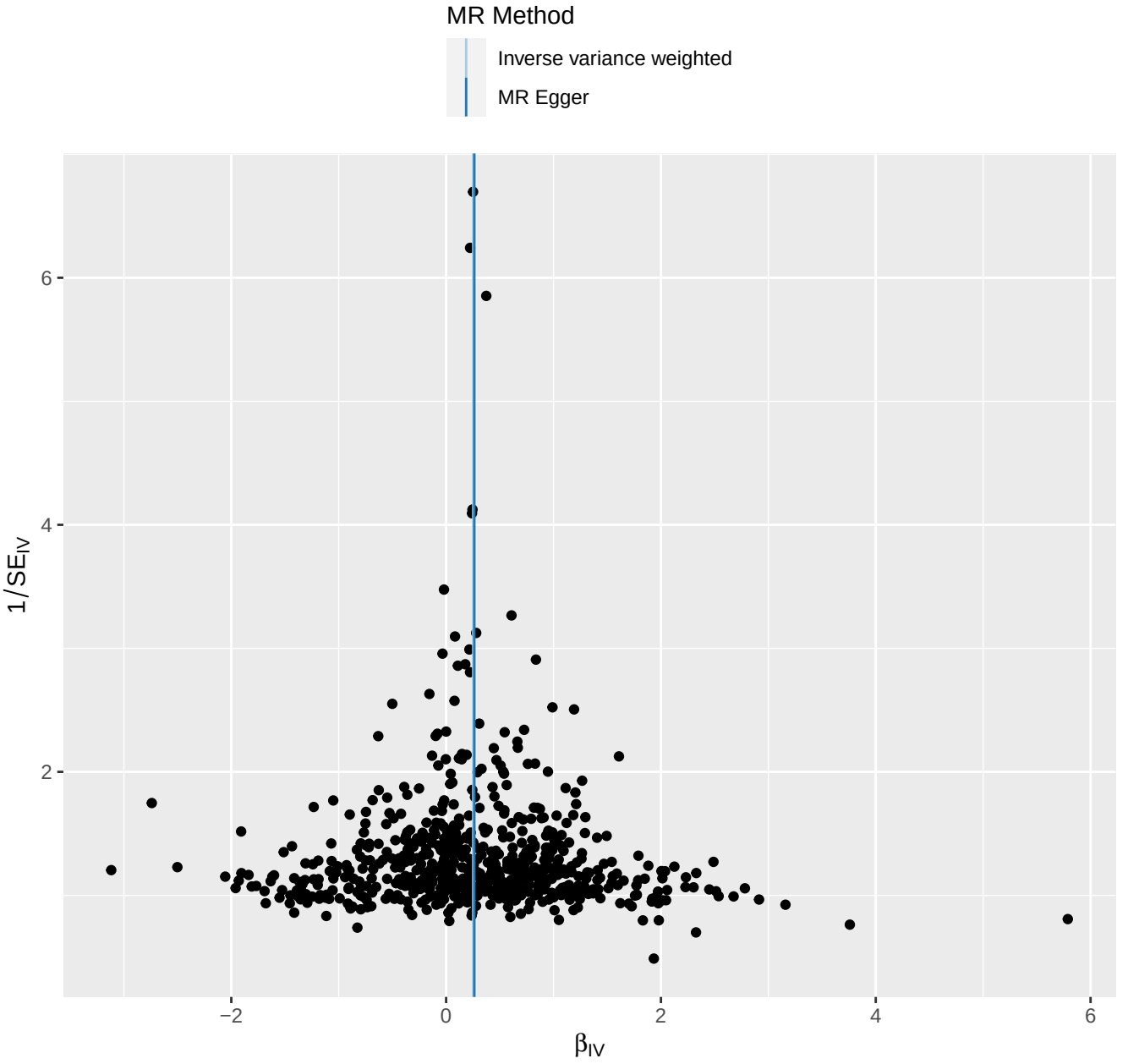
Concentration of medium HDL particles



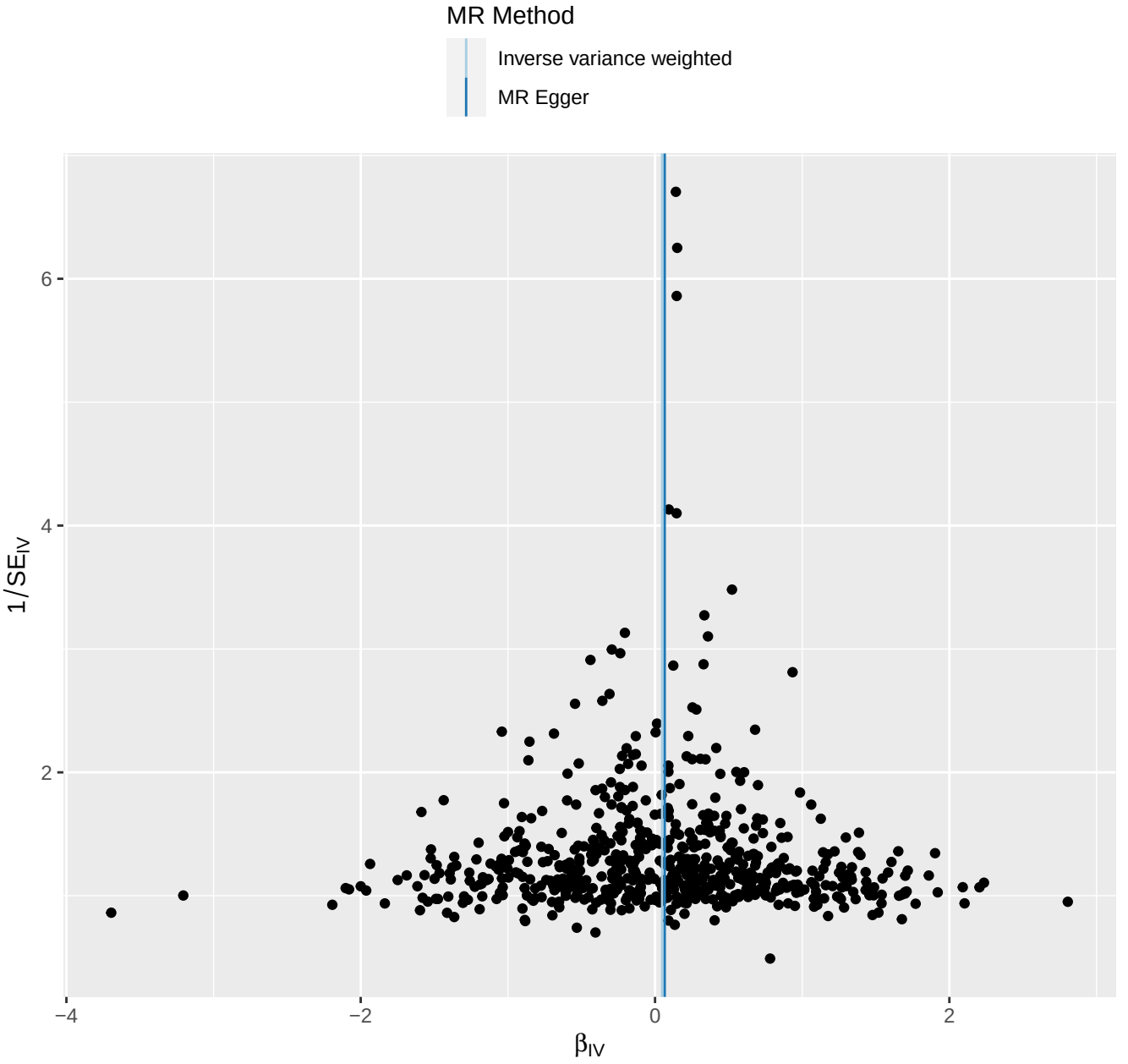
Concentration of medium LDL particles



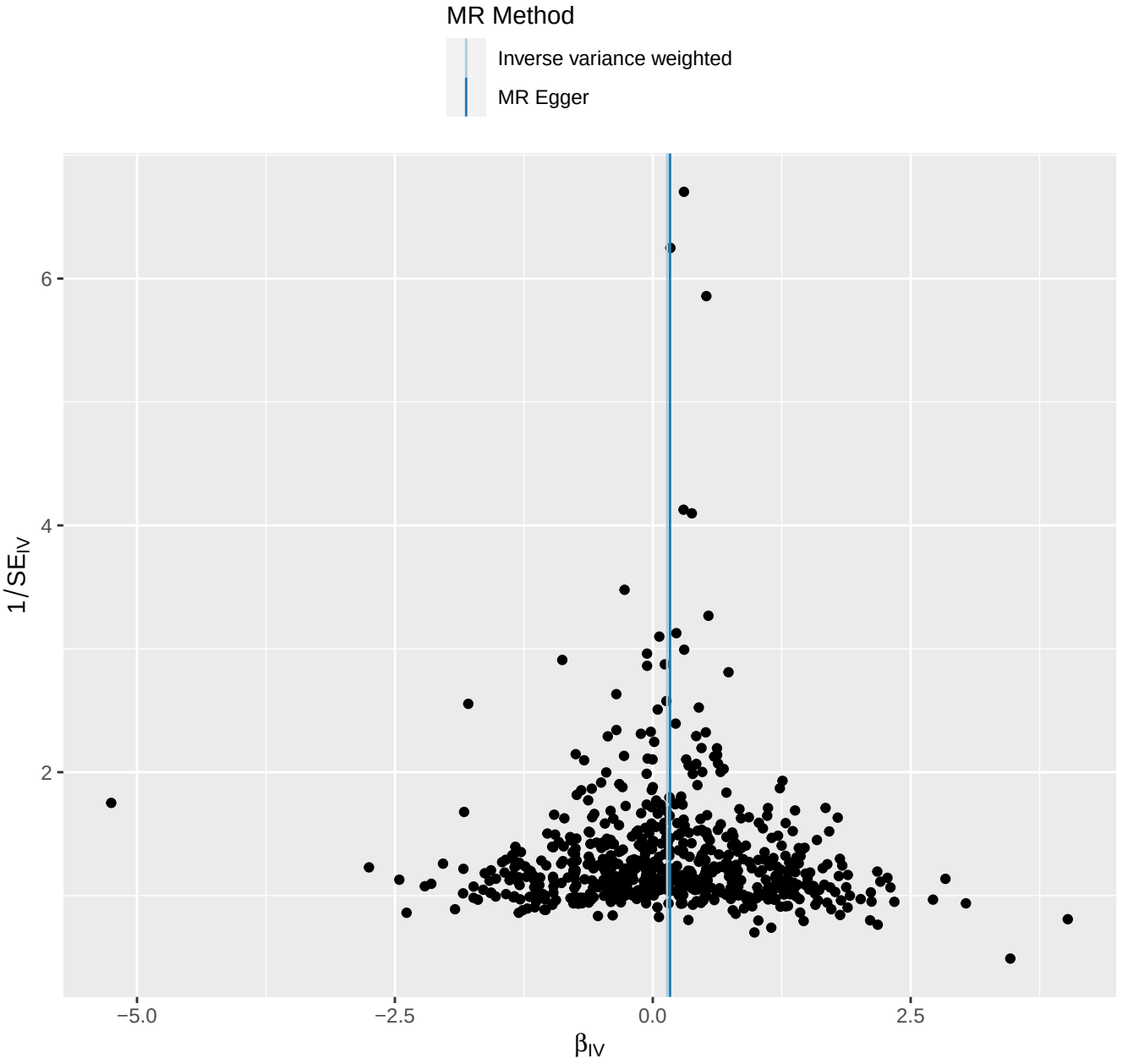
Concentration of medium VLDL particles



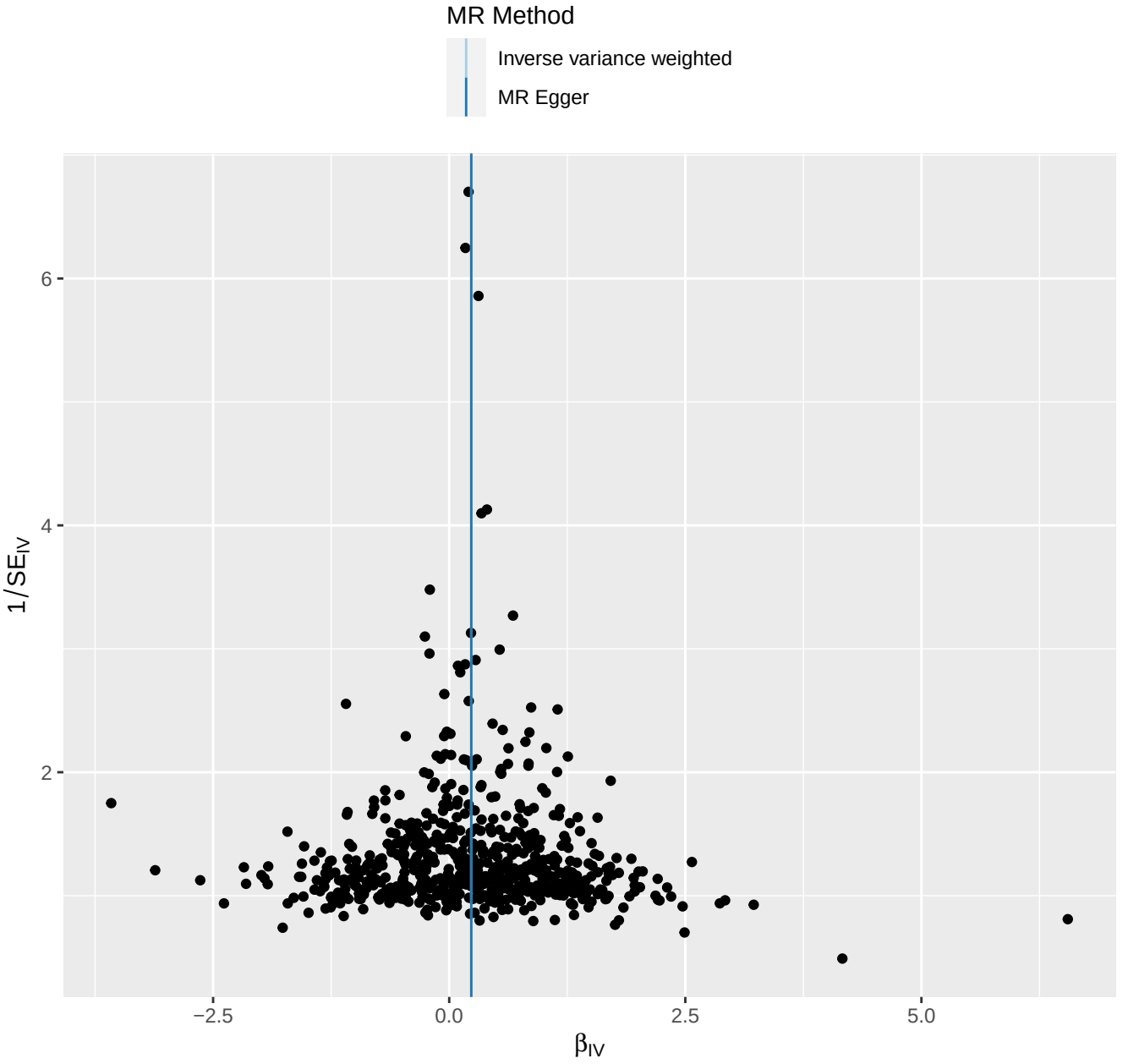
Concentration of small HDL particles

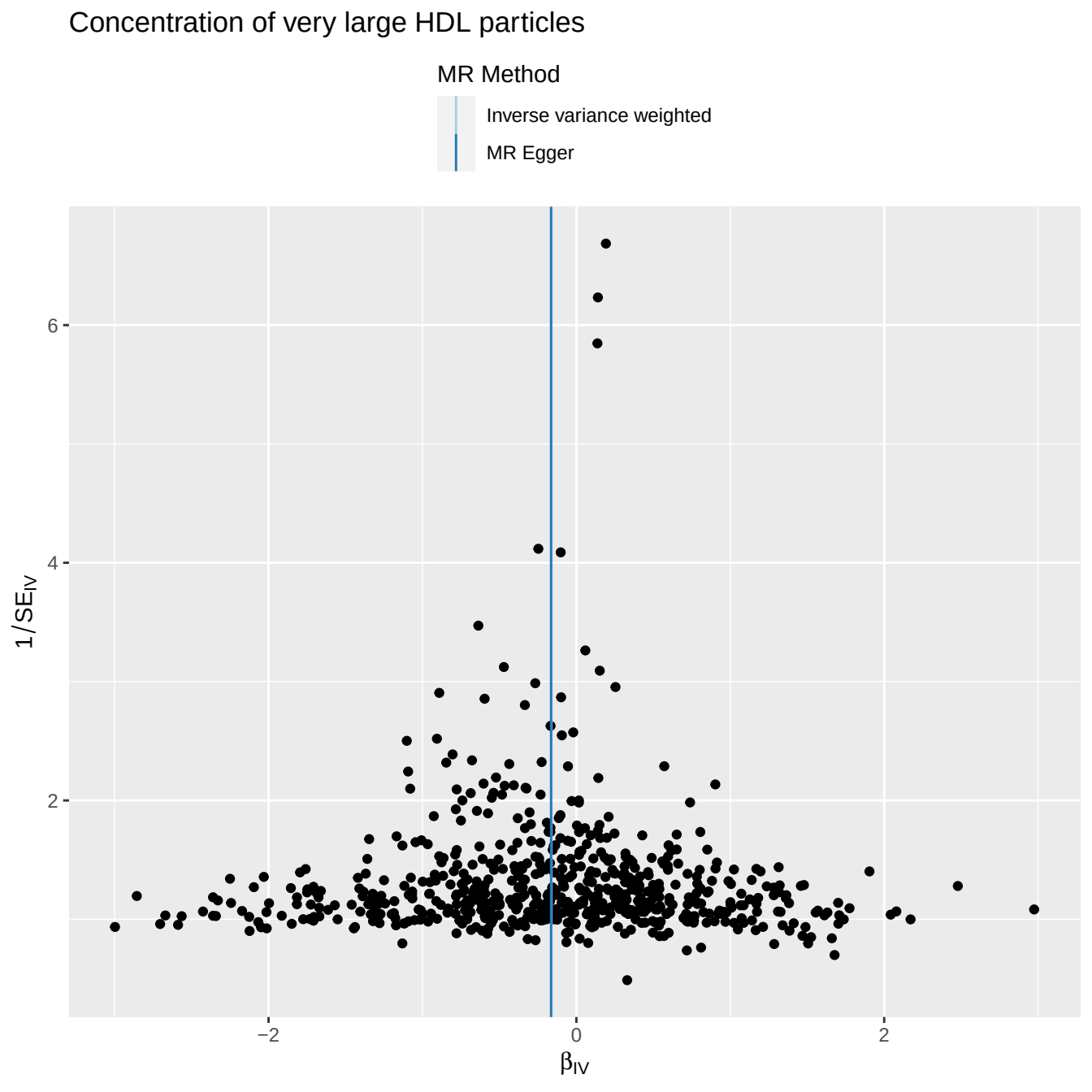


Concentration of small LDL particles

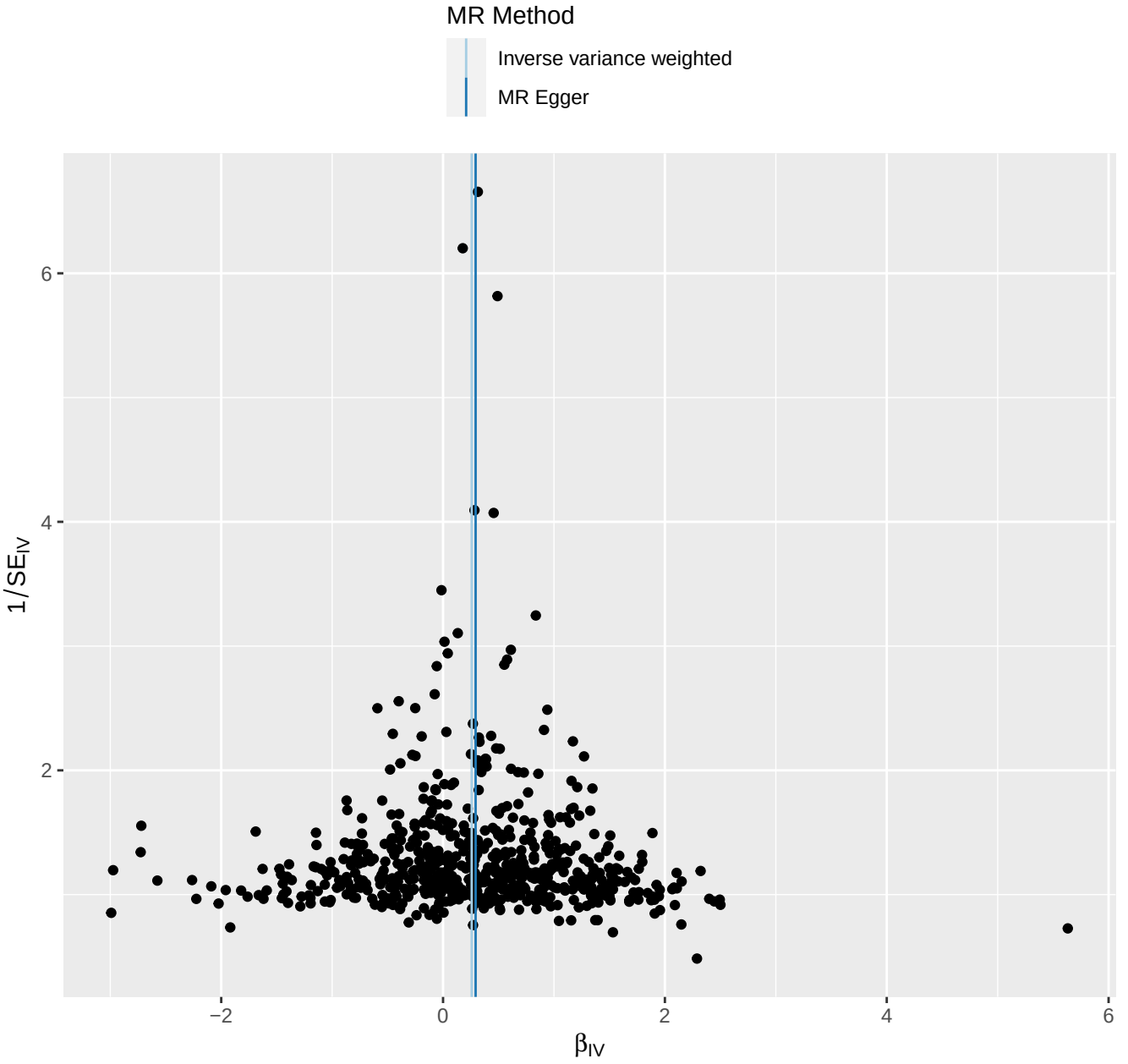


Concentration of small VLDL particles

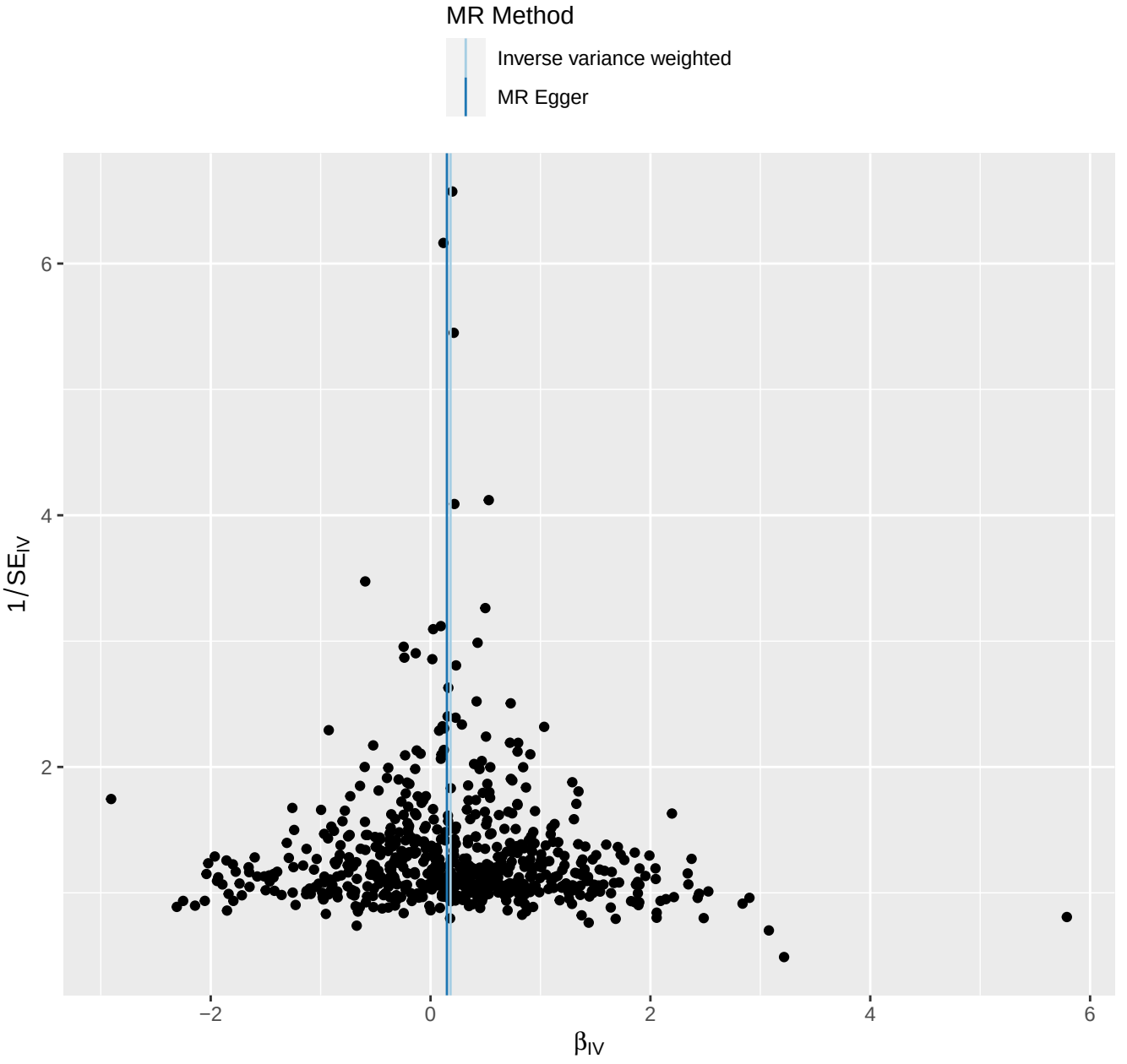


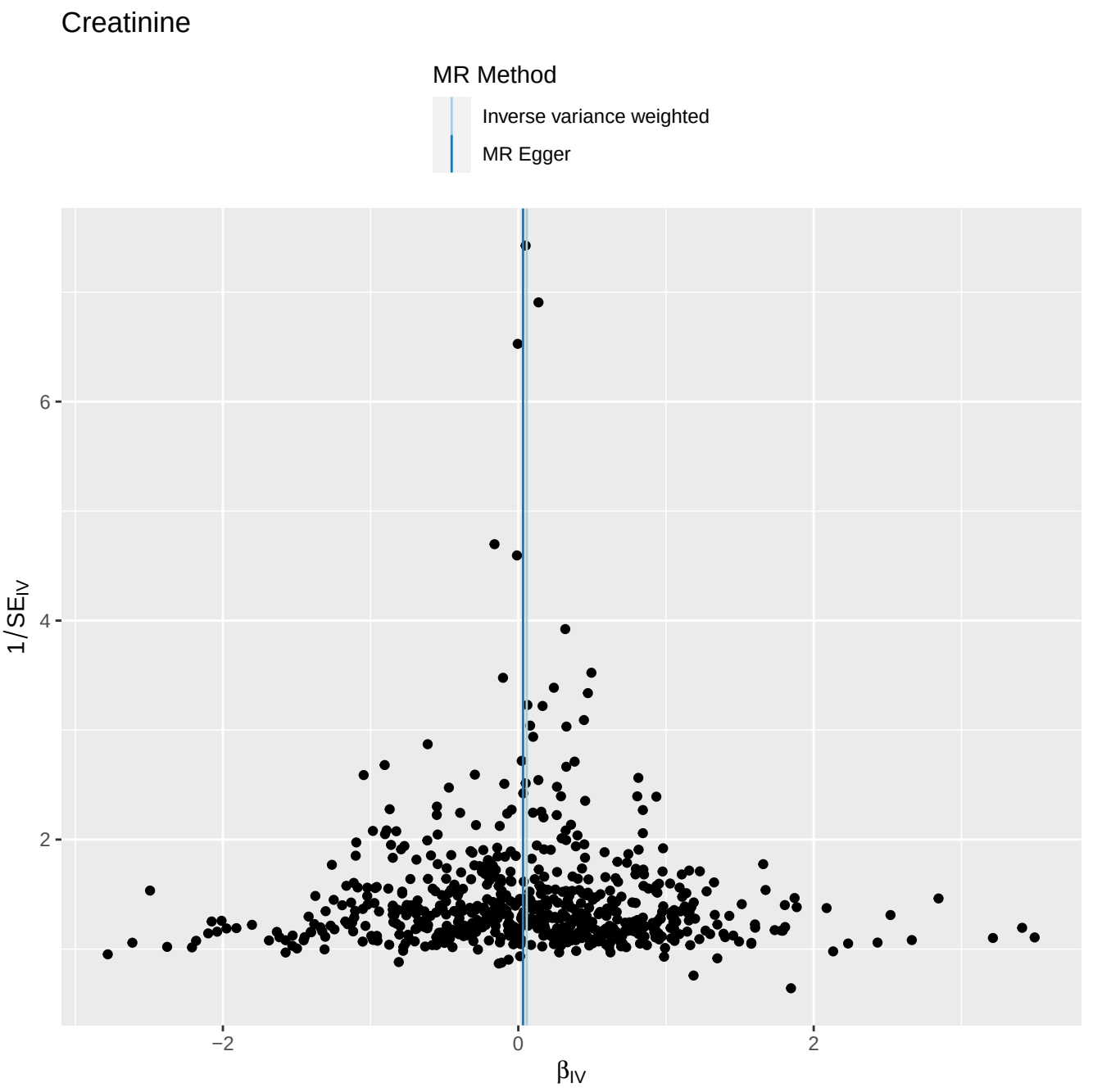

Concentration of very large HDL particles
MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2
0
2
β_IV

Concentration of very large VLDL particles

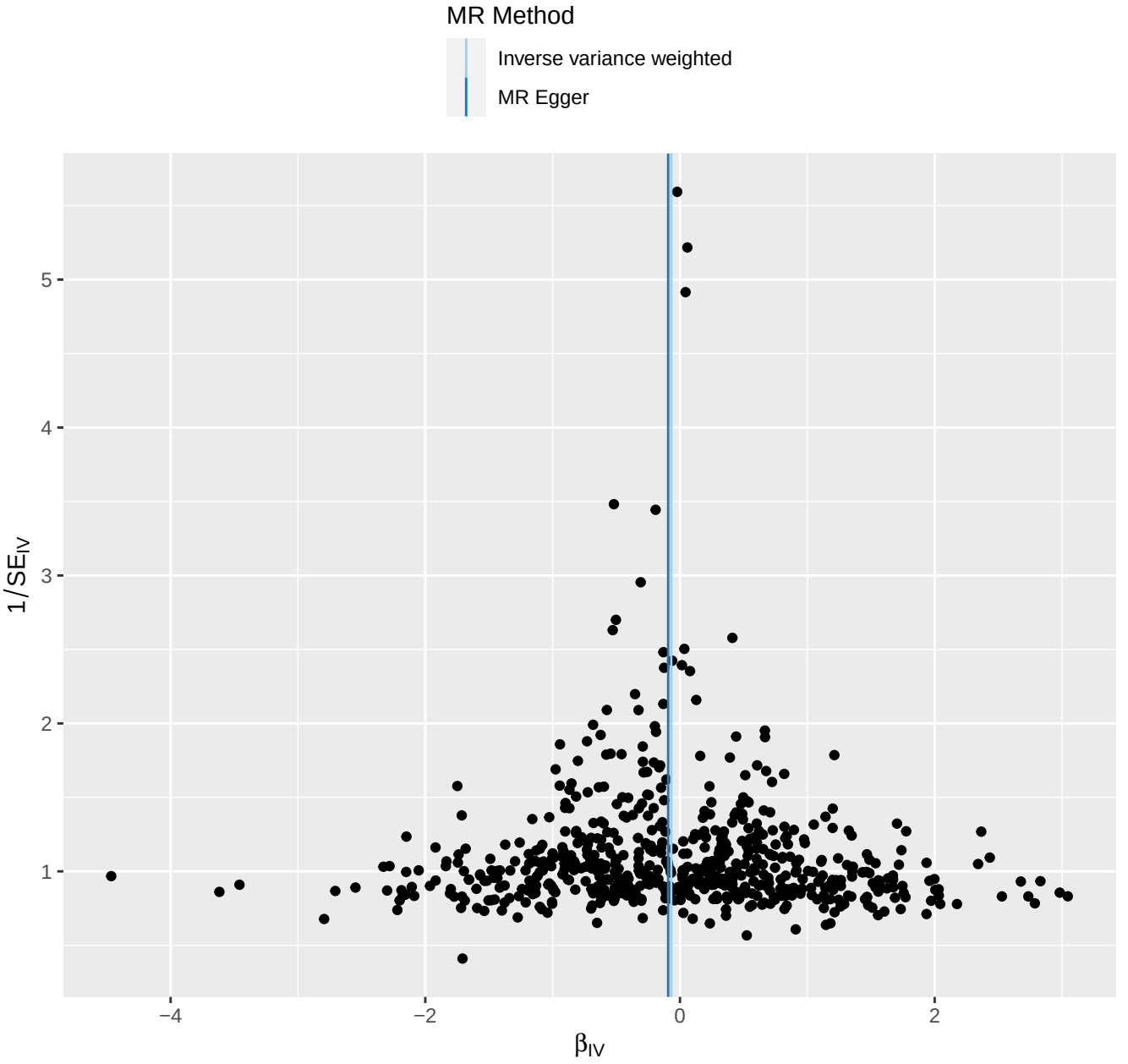


Concentration of very small VLDL particles

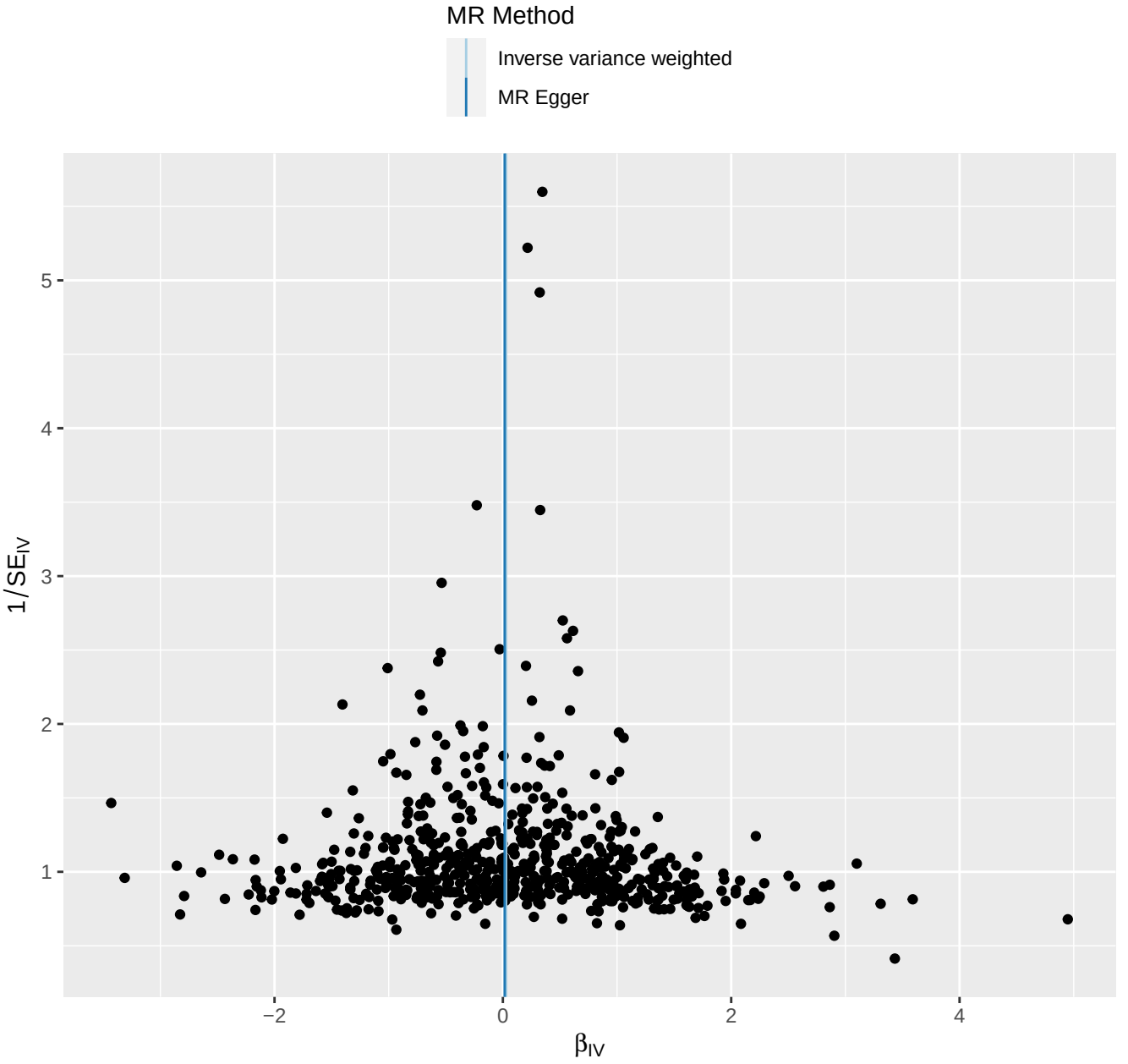



Creatinine
MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2
0
2
β_IV

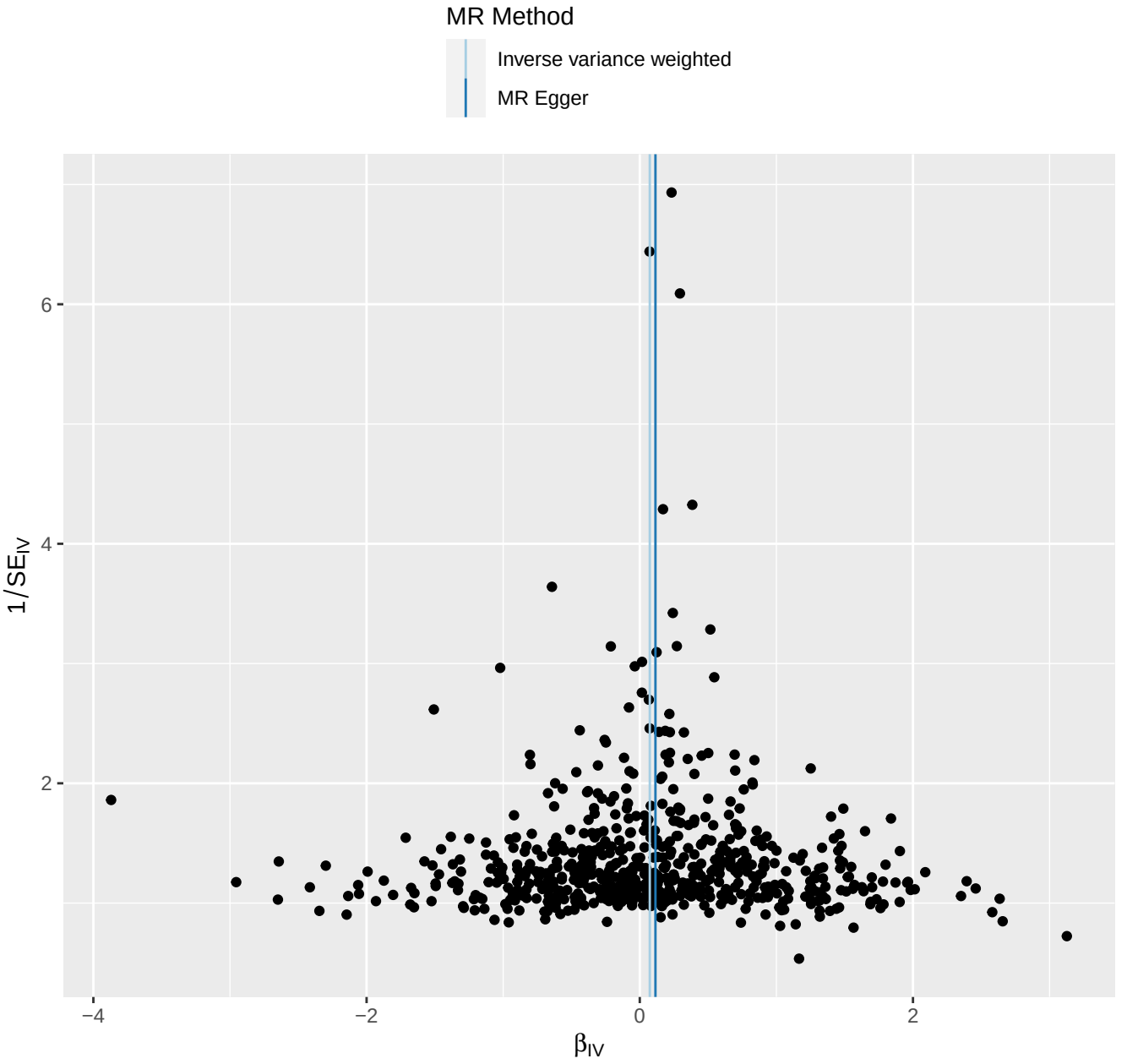
Description of average fatty acid chain length, not actual carbon number



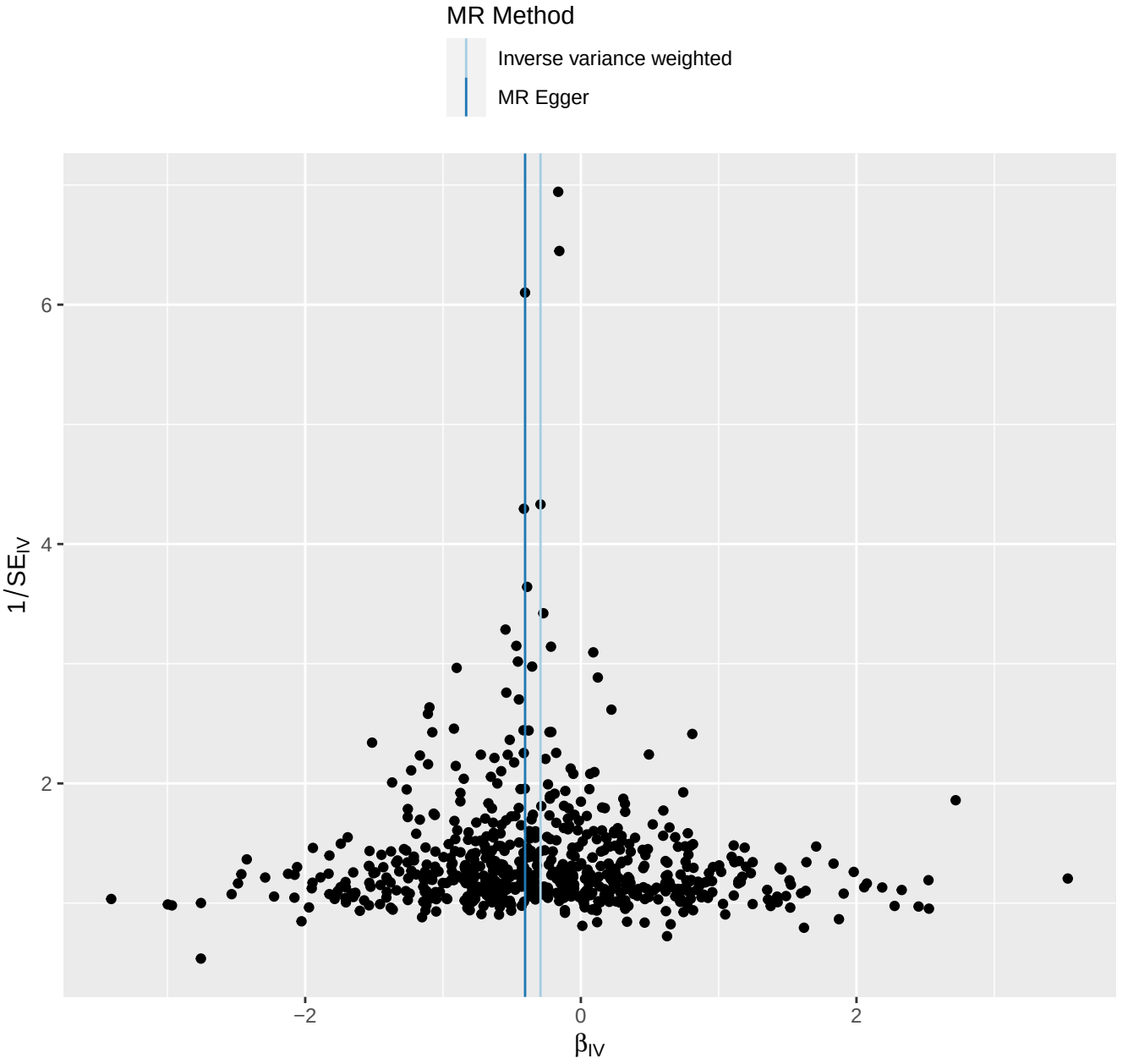
Free cholesterol



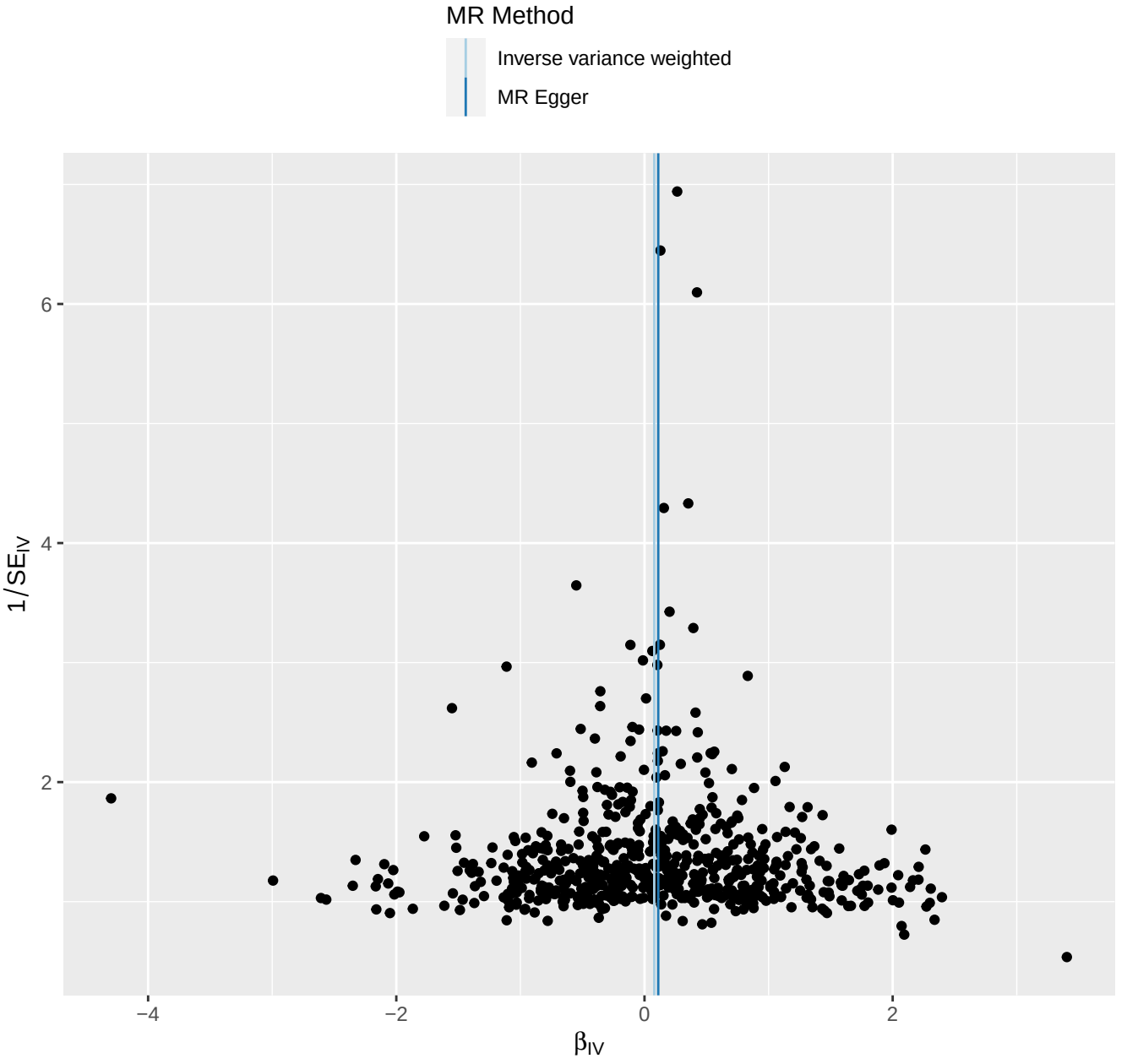
Free cholesterol in IDL



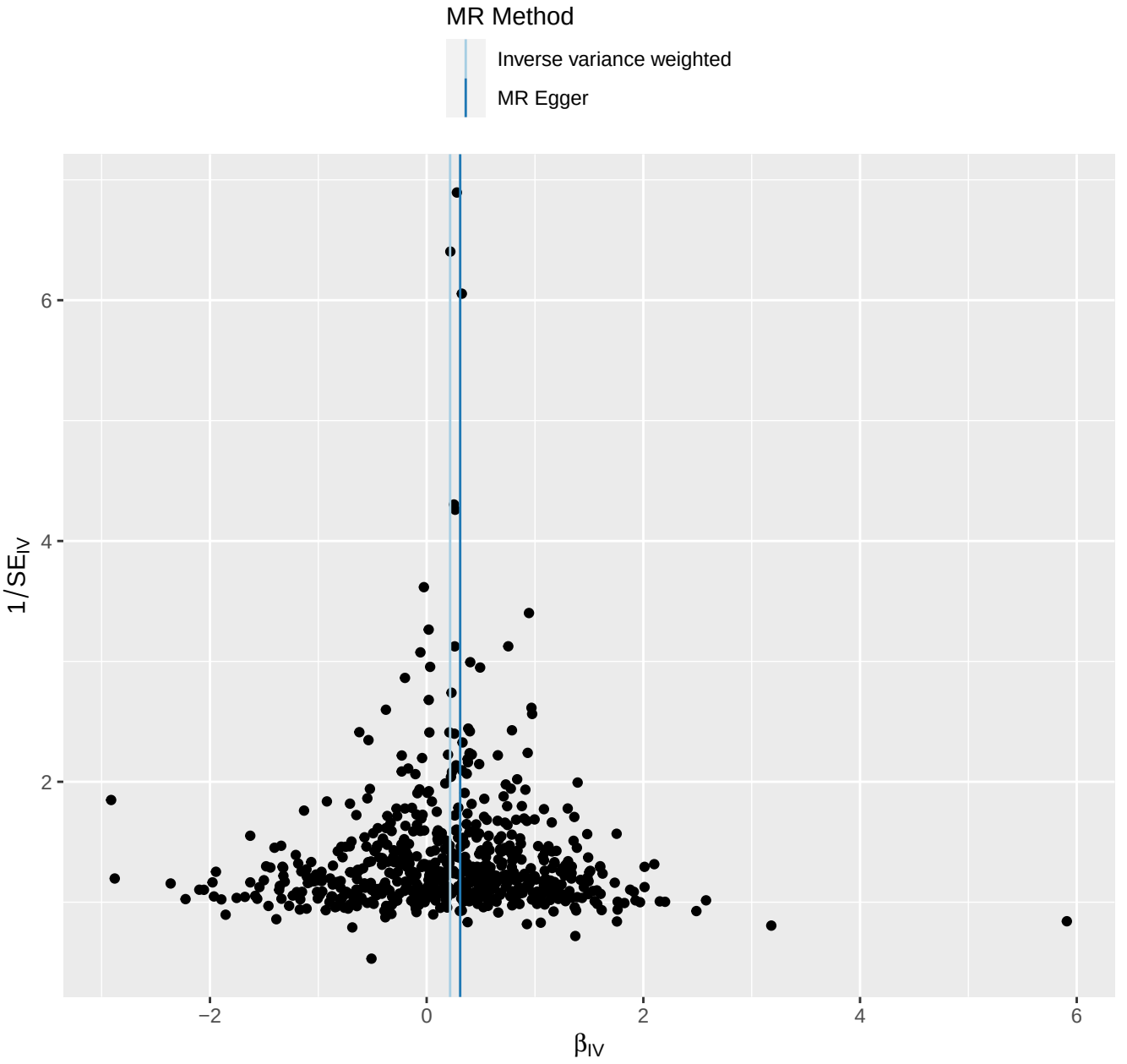
Free cholesterol in large HDL



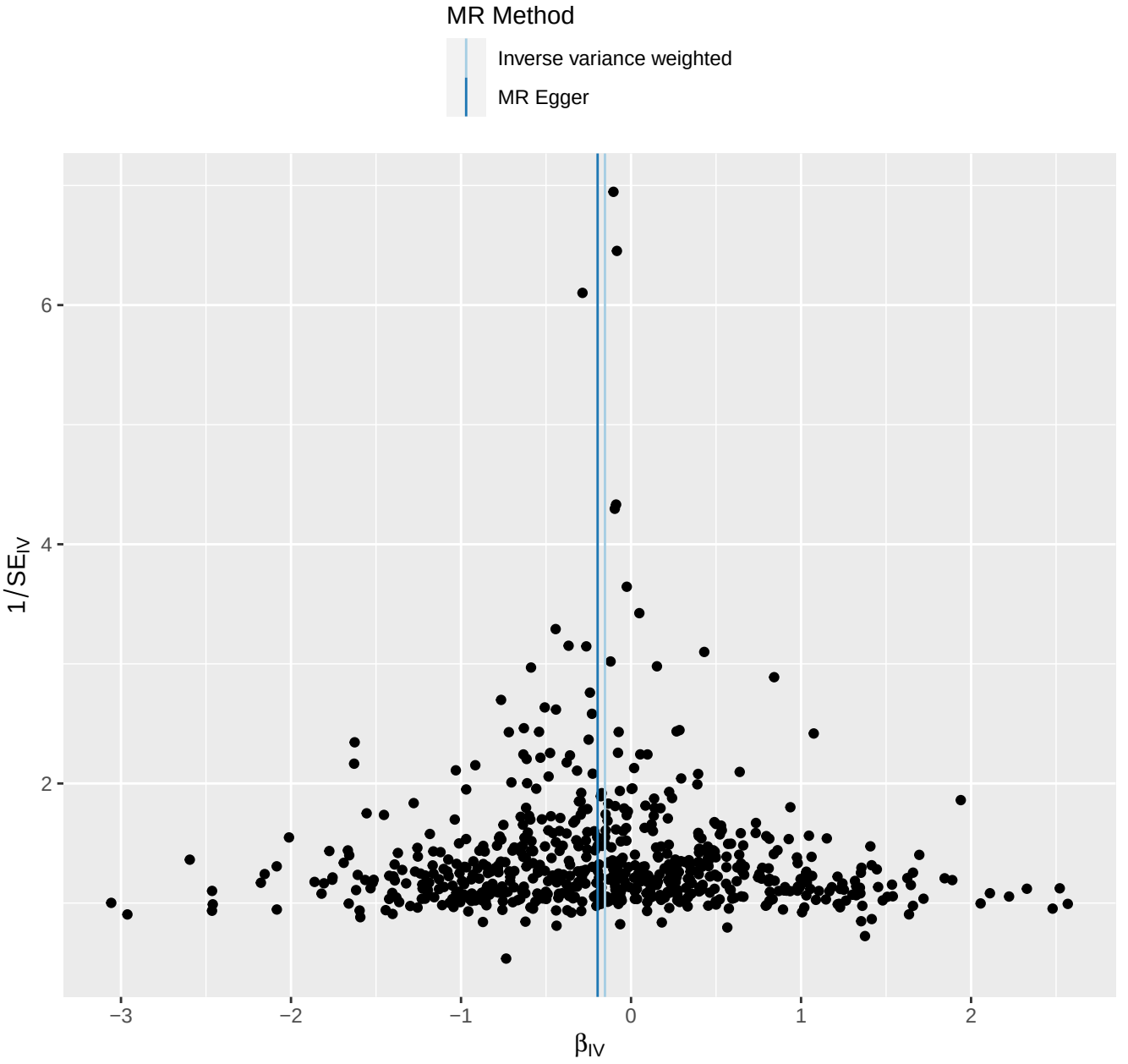
Free cholesterol in large LDL



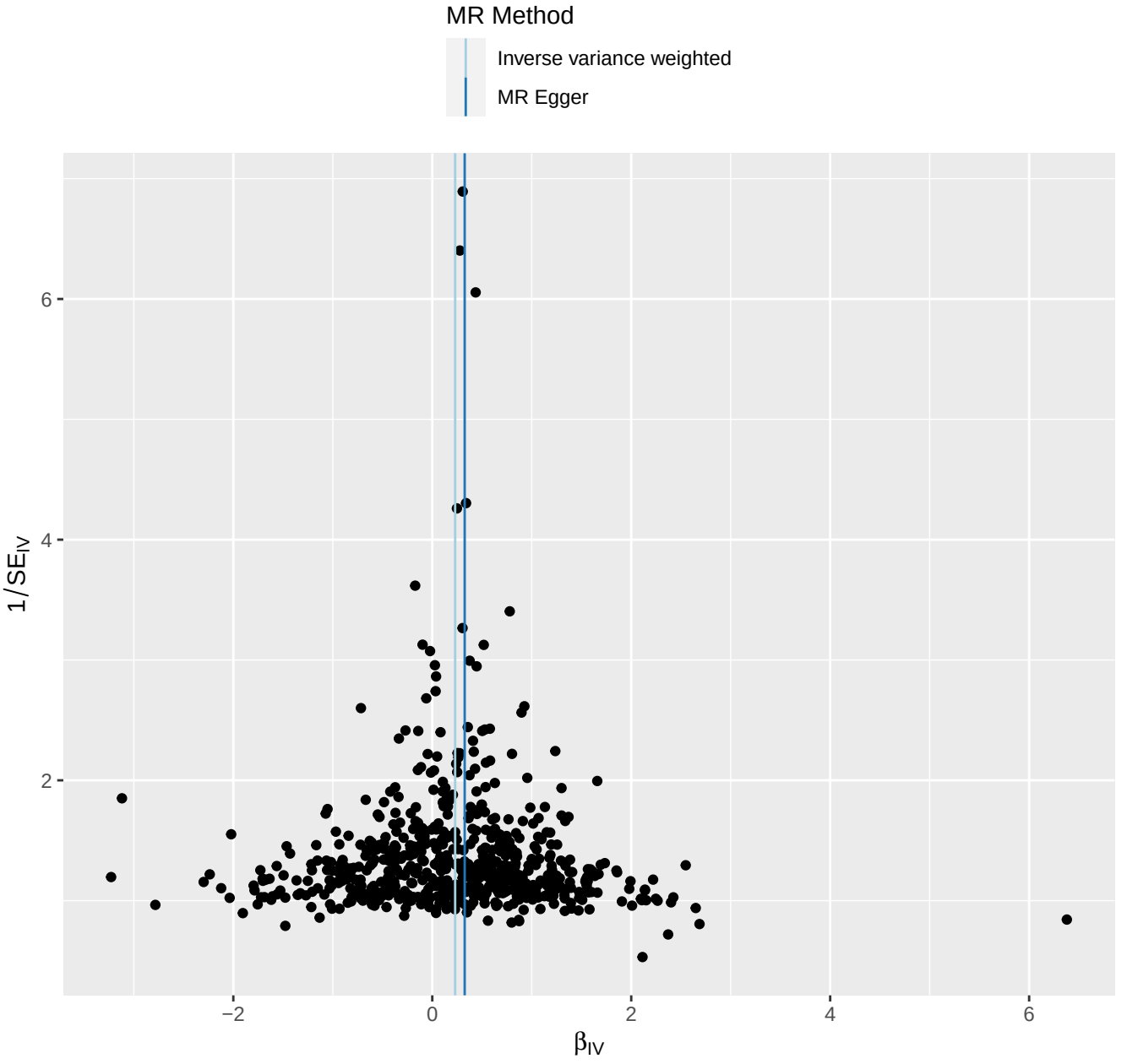
Free cholesterol in large VLDL



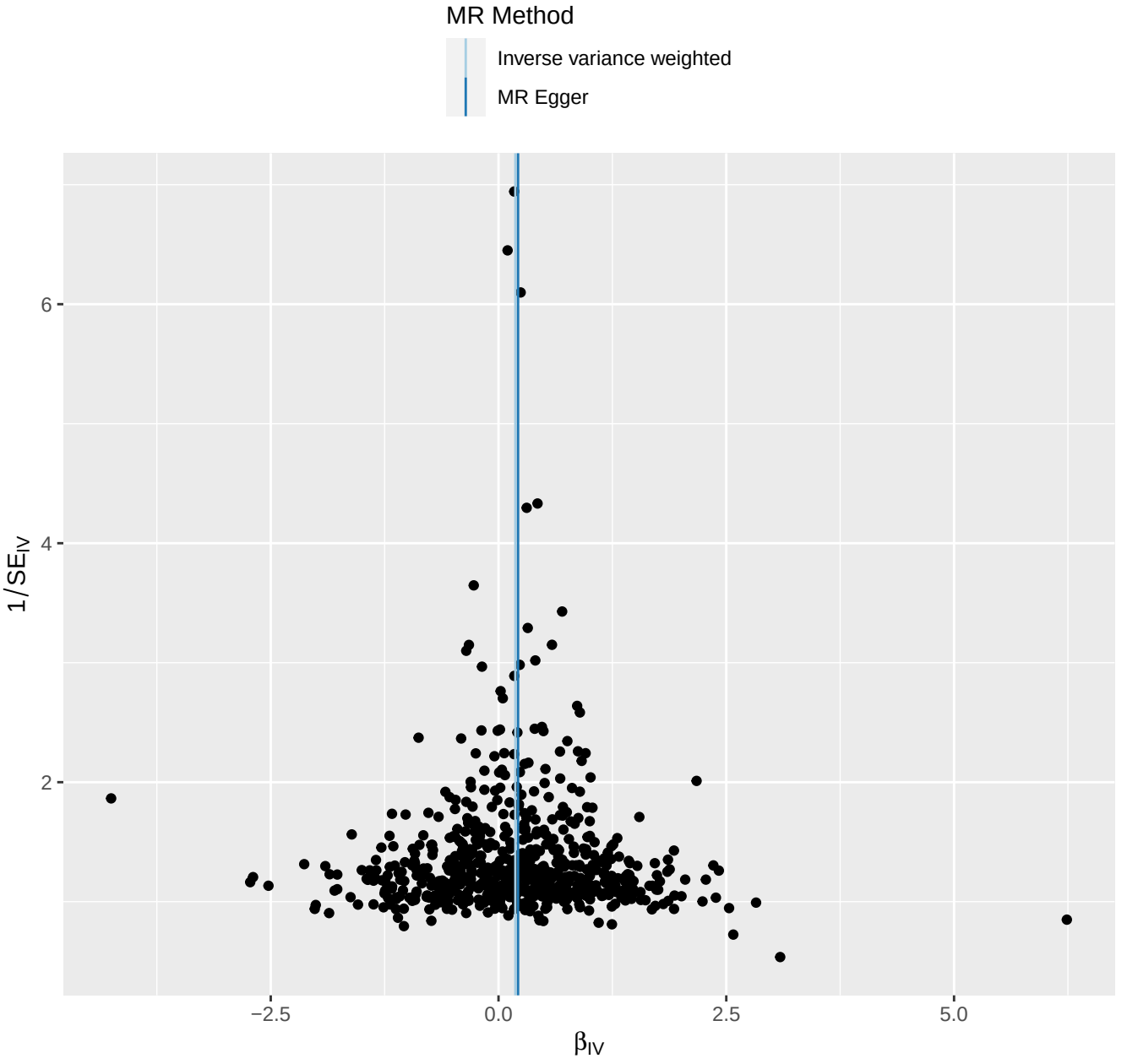
Free cholesterol in medium HDL



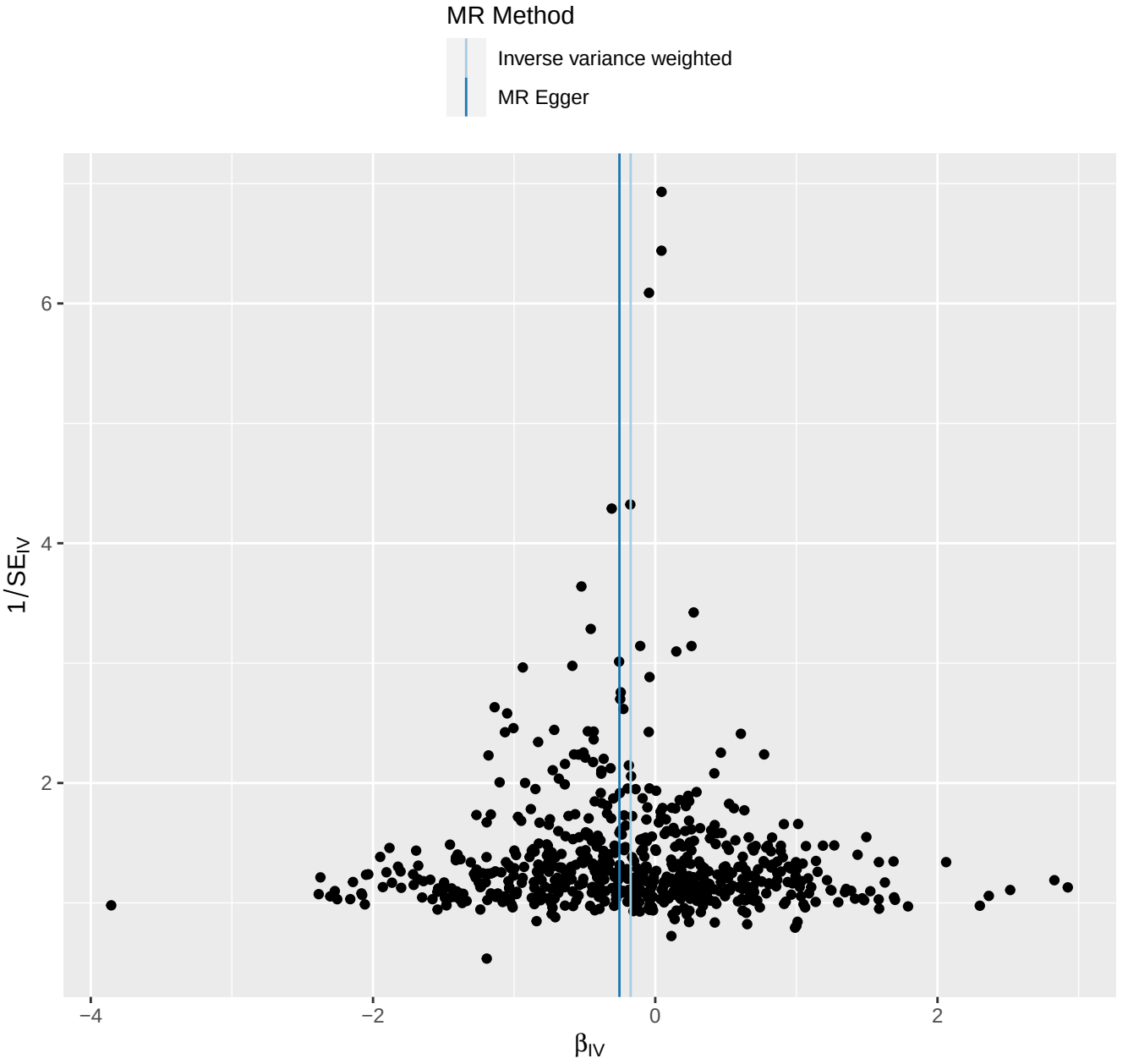
Free cholesterol in medium VLDL



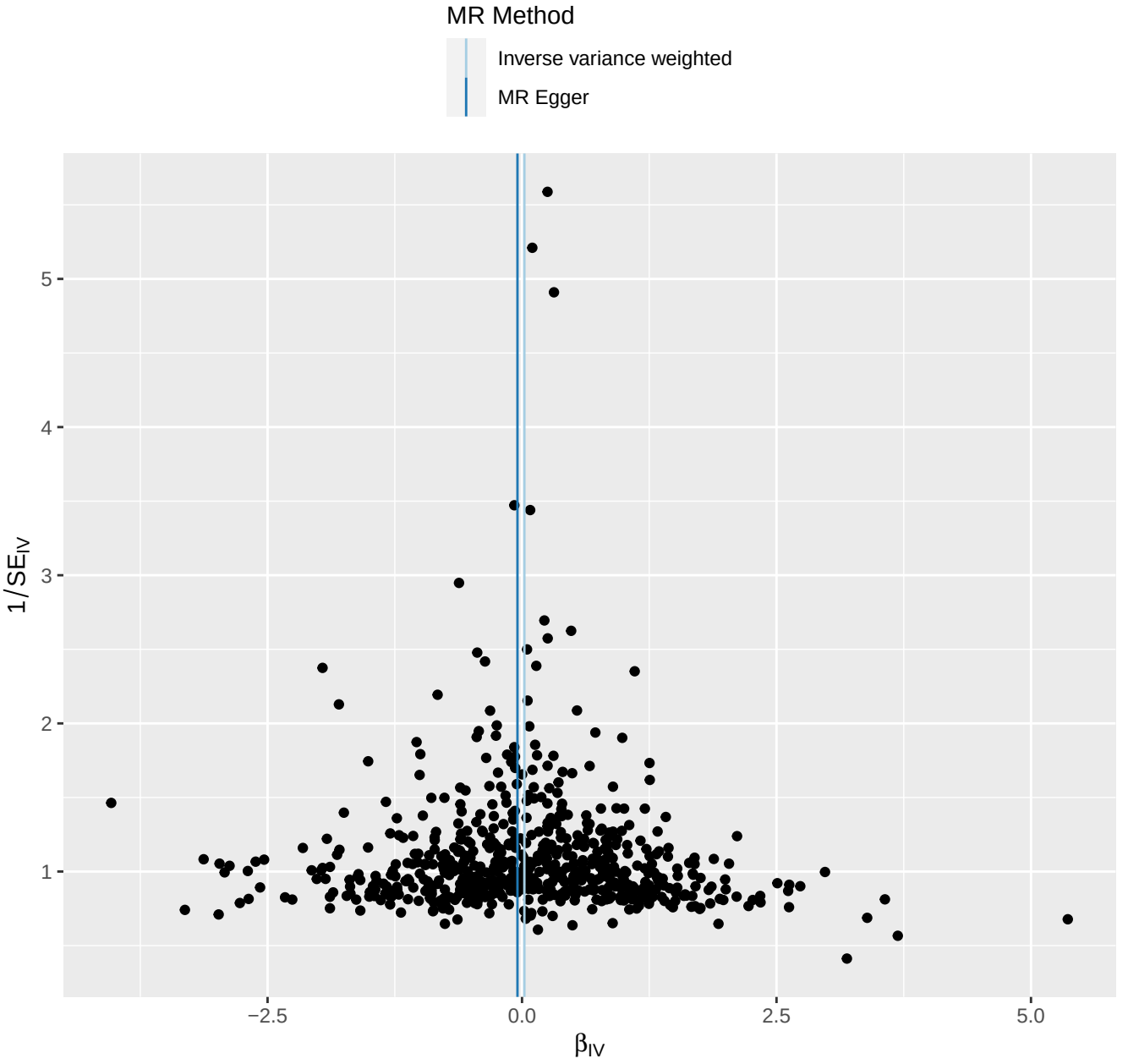
Free cholesterol in small VLDL

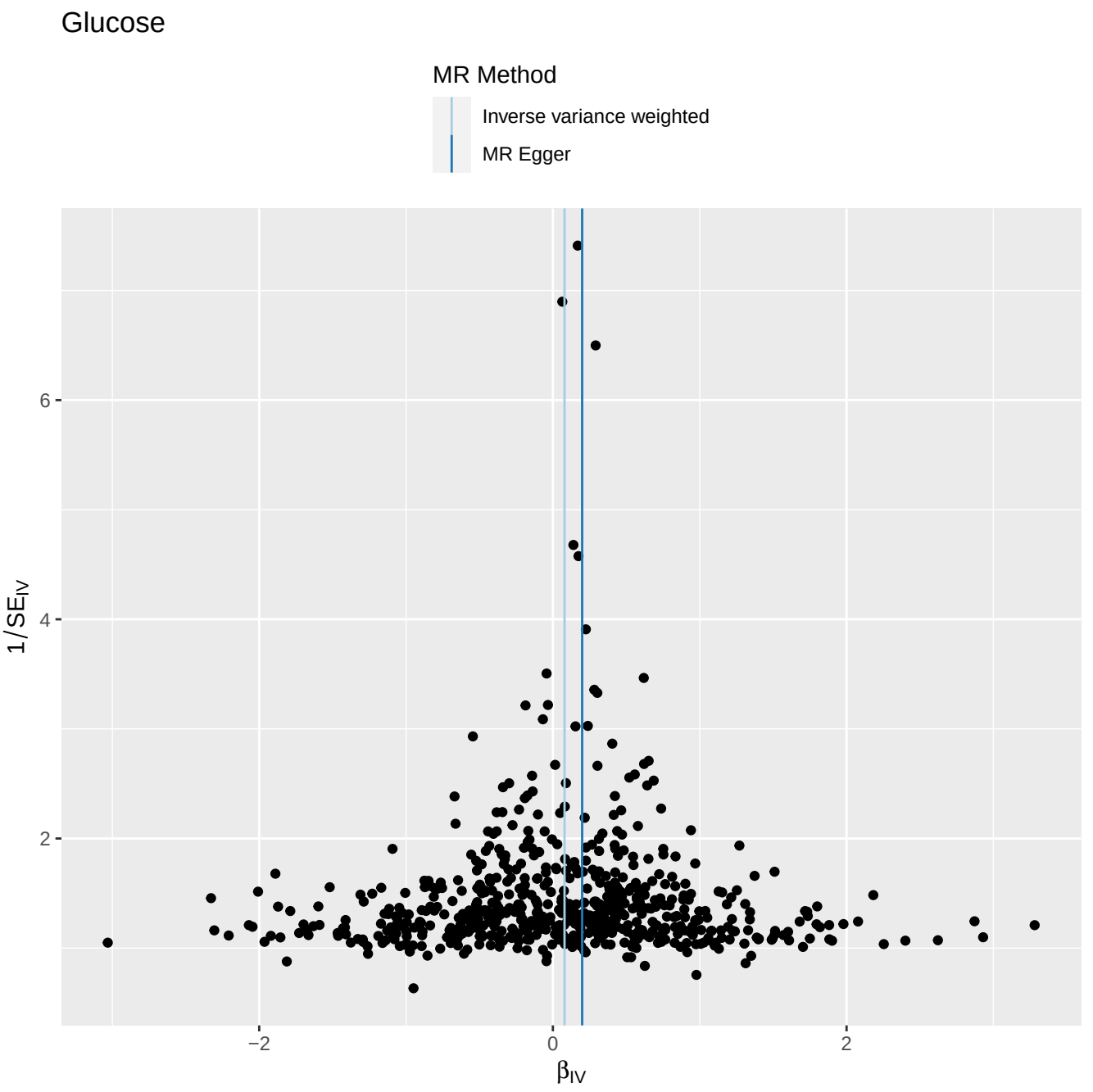


Free cholesterol in very large HDL

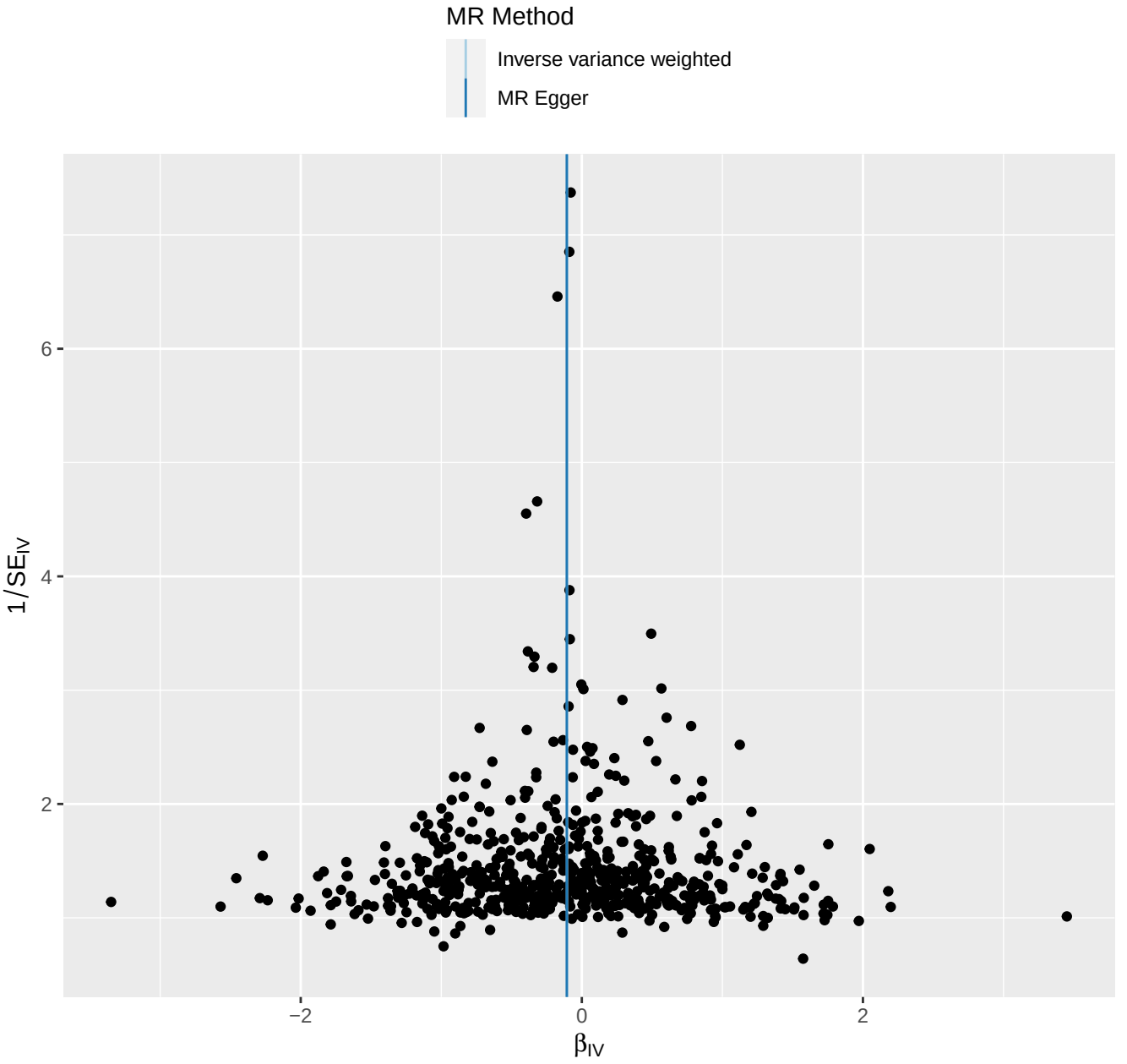


Free cholesterol to esterified cholesterol ratio

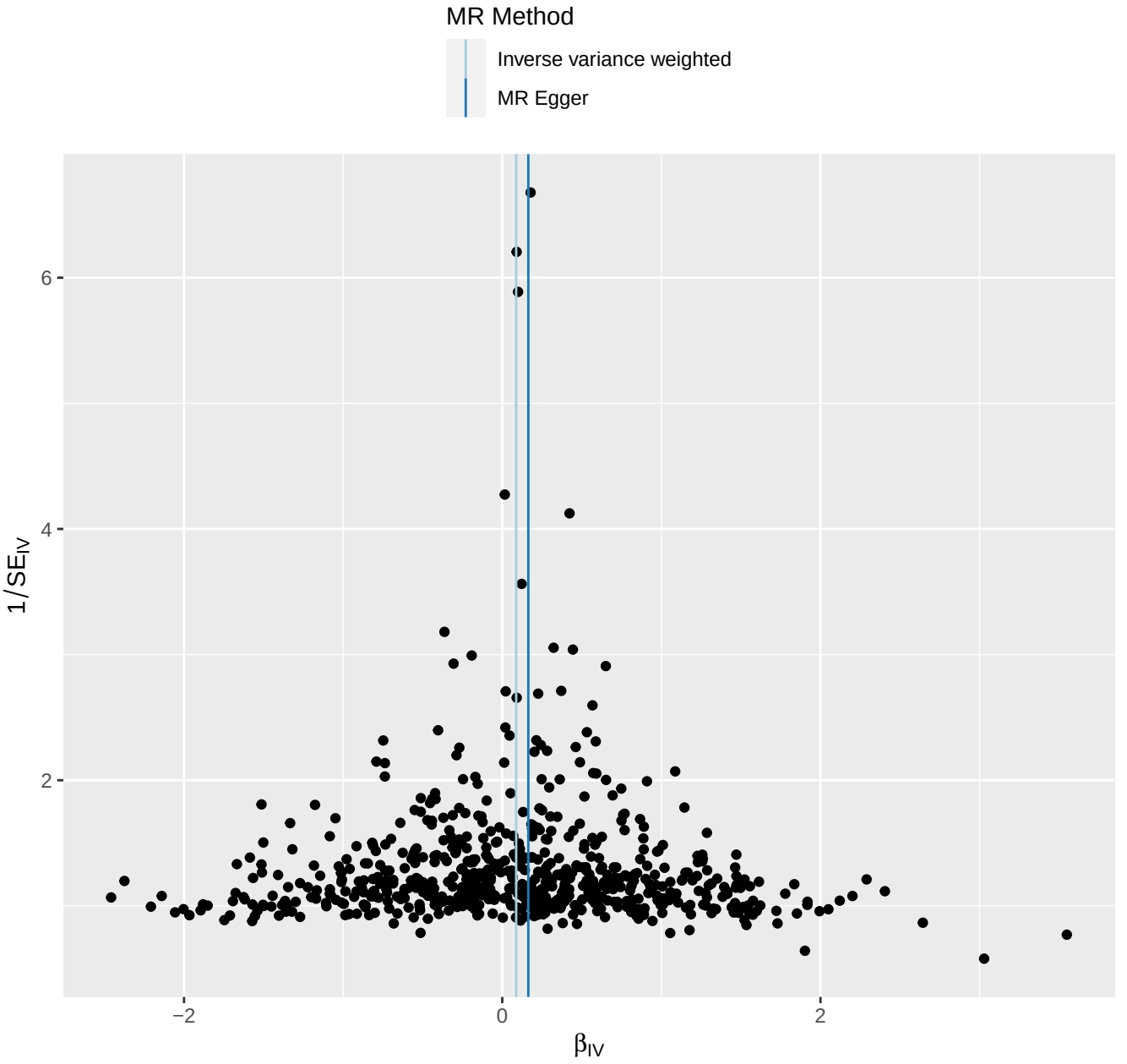



Glucose
MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2
0
2
β_IV

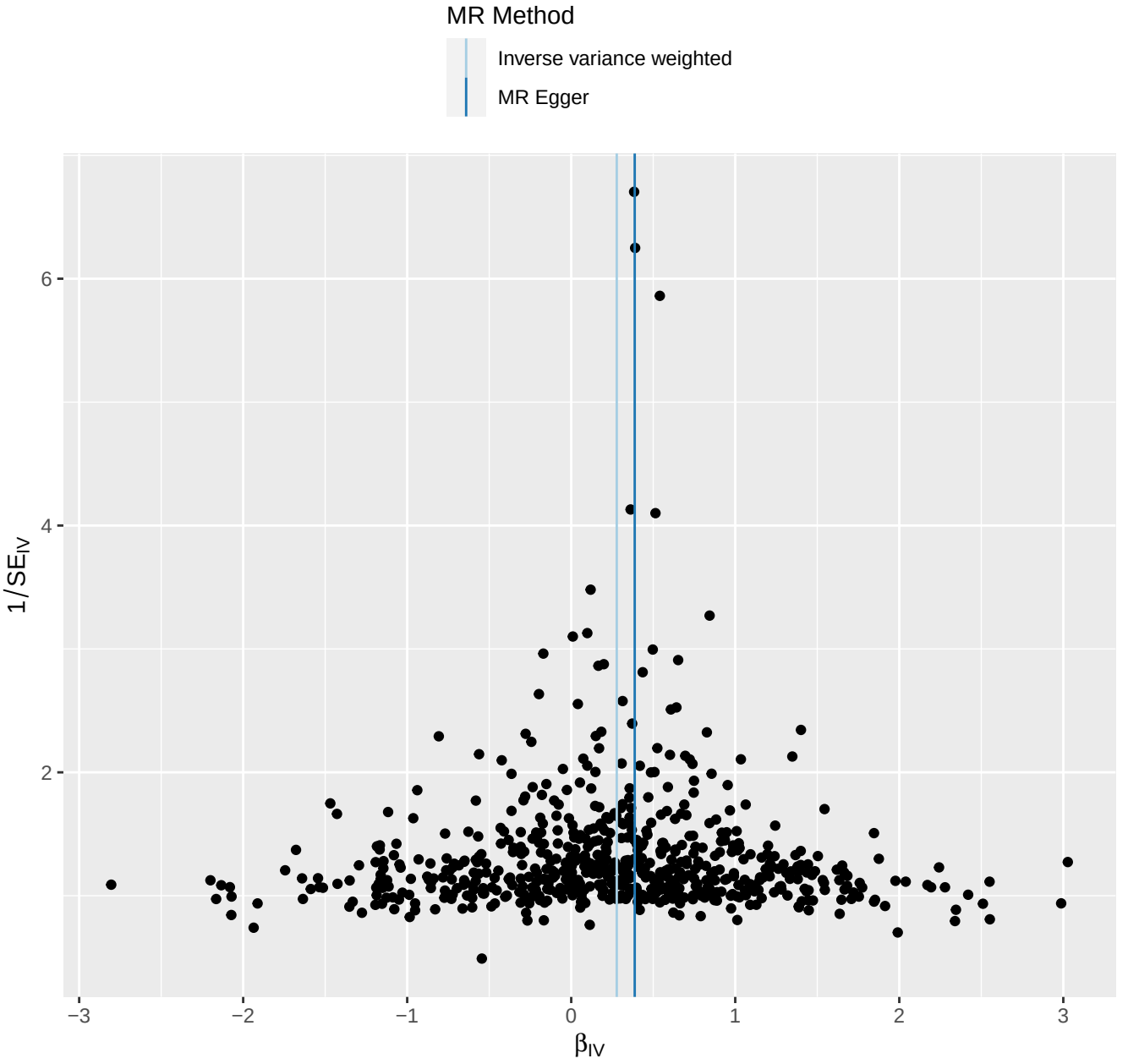
Glutamine


MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2
0
2
β_IV

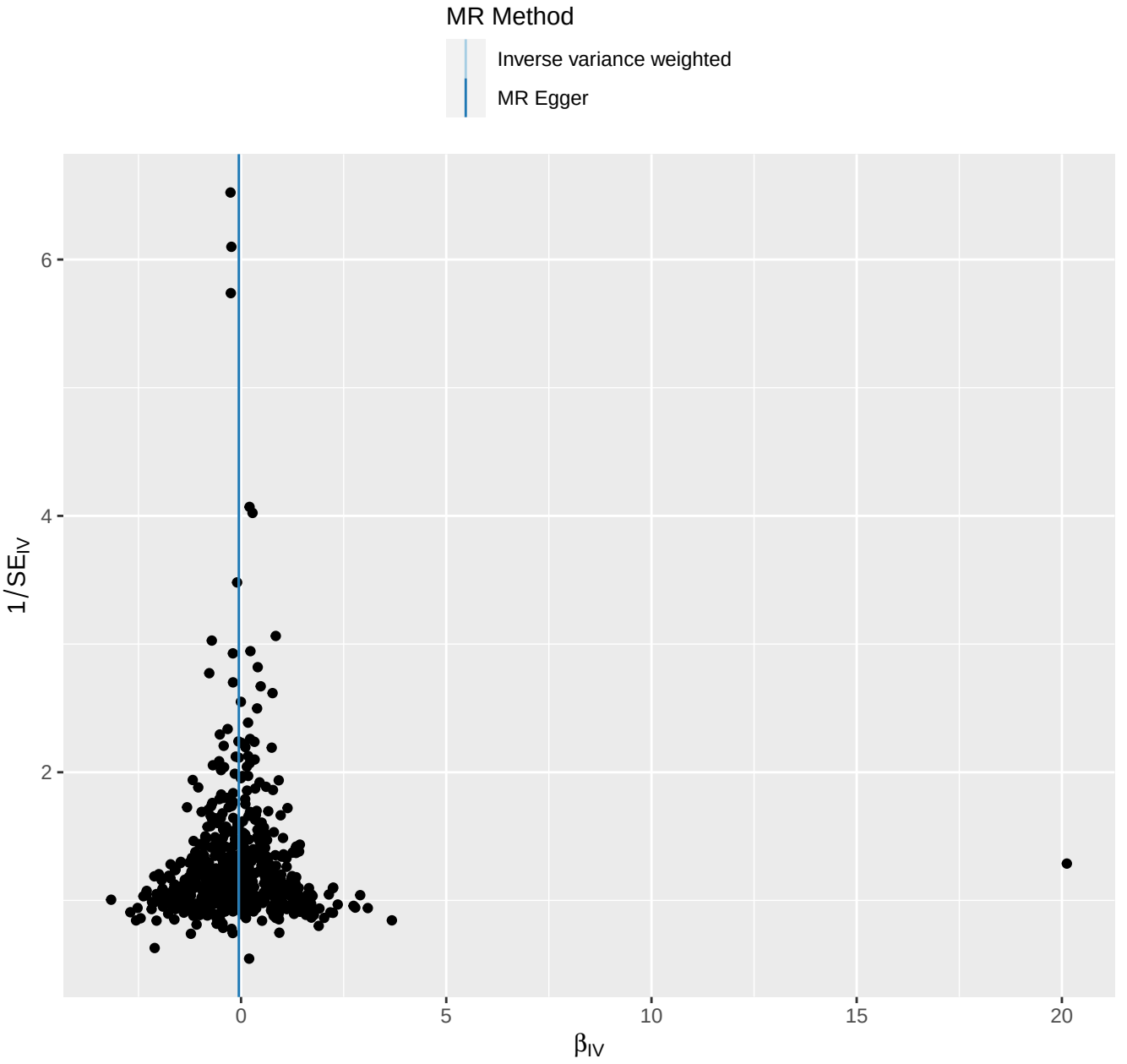
Glycerol


MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2
0
2
β_IV

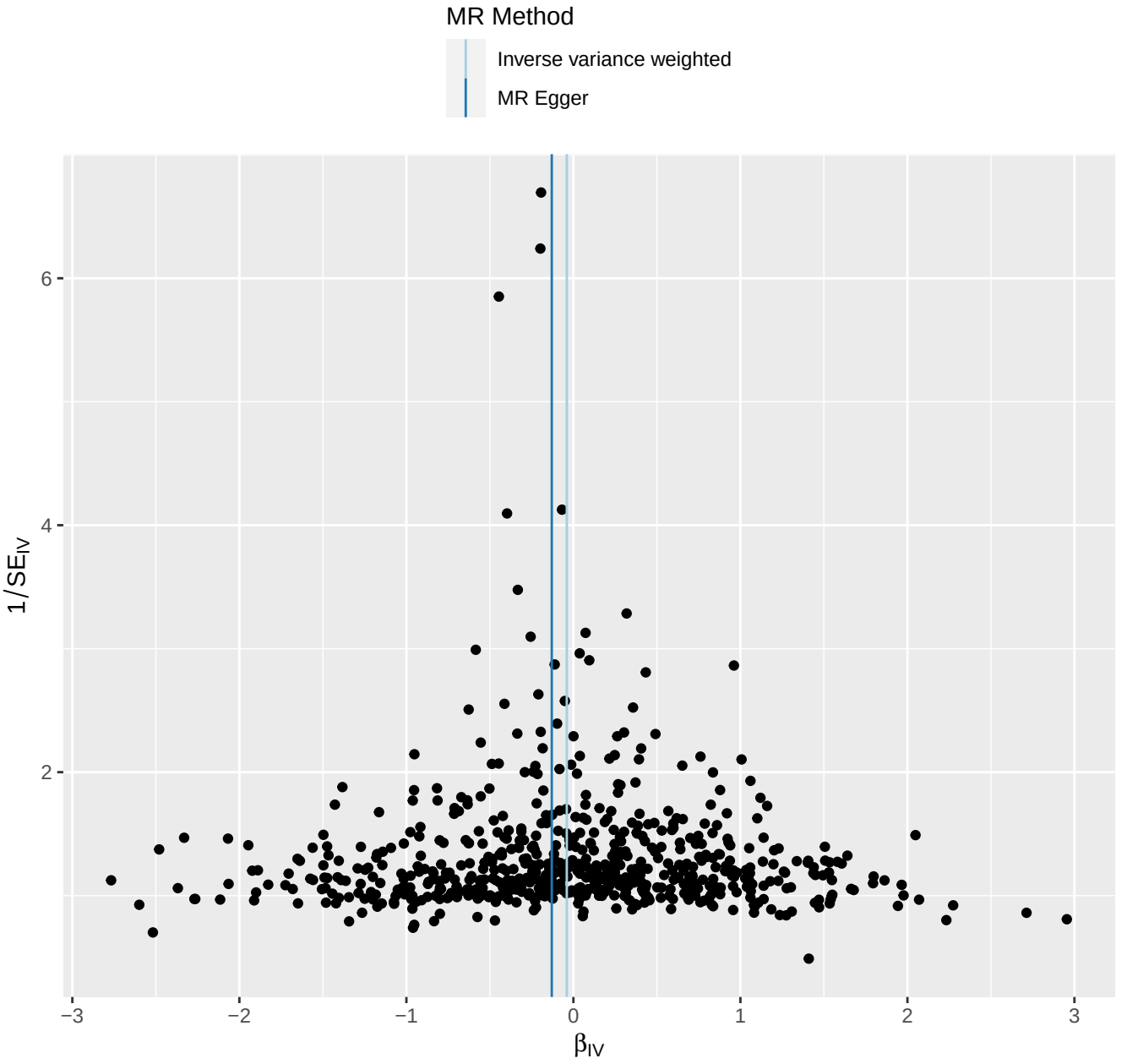
Glycoprotein acetyls



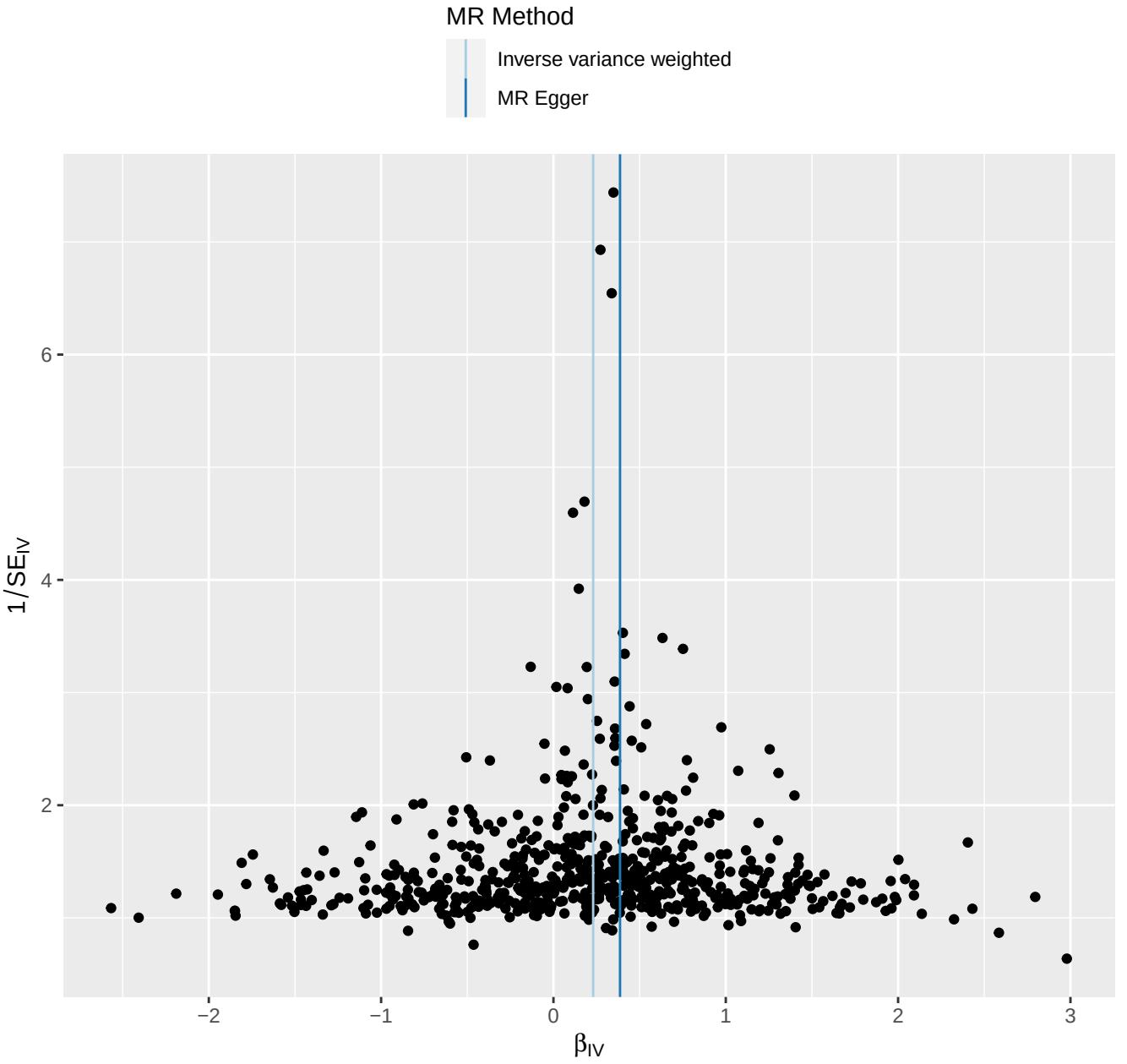
Glycoproteins



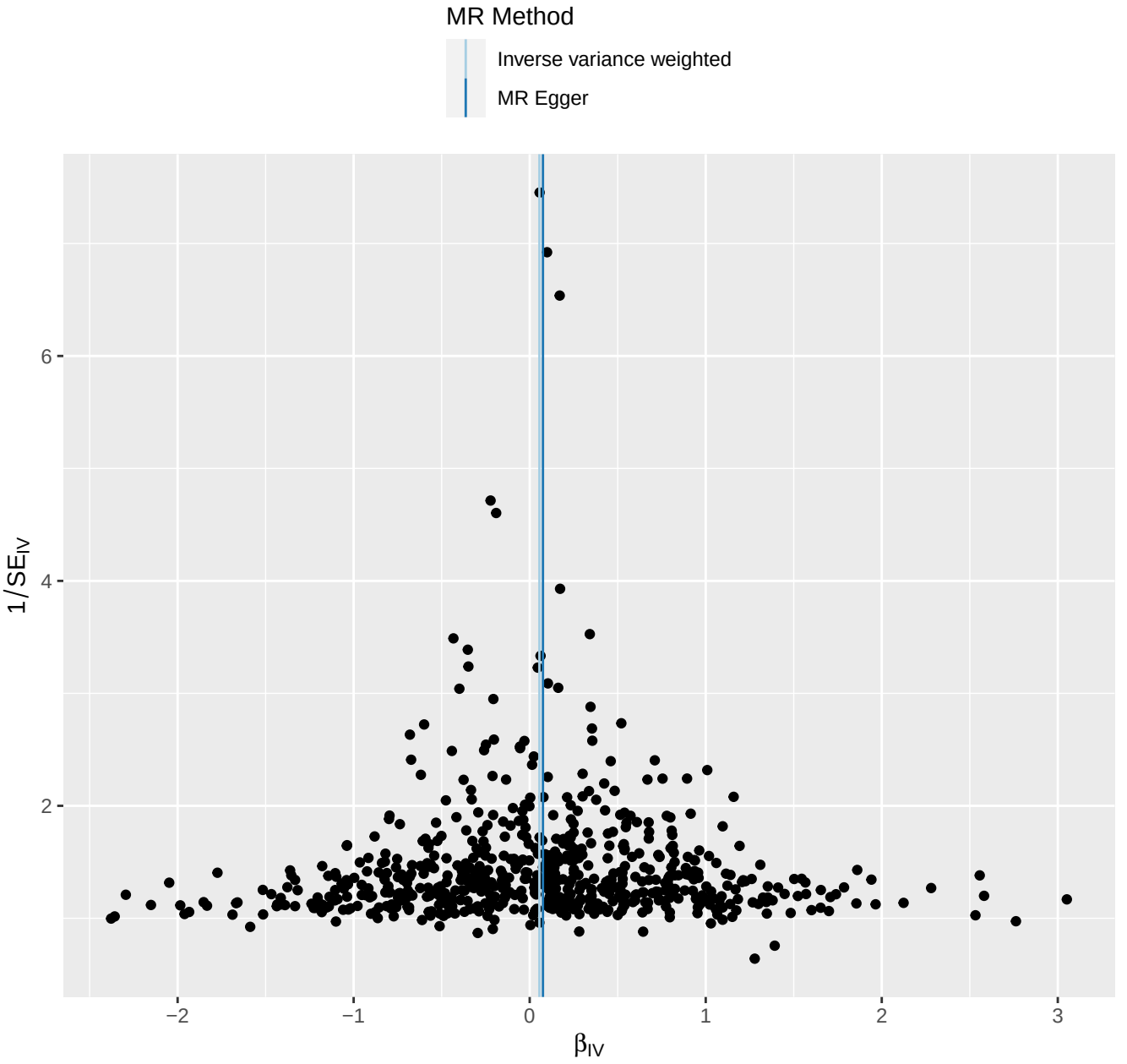
Histidine


MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−3
−2
−1
0
1
2
3
β_IV

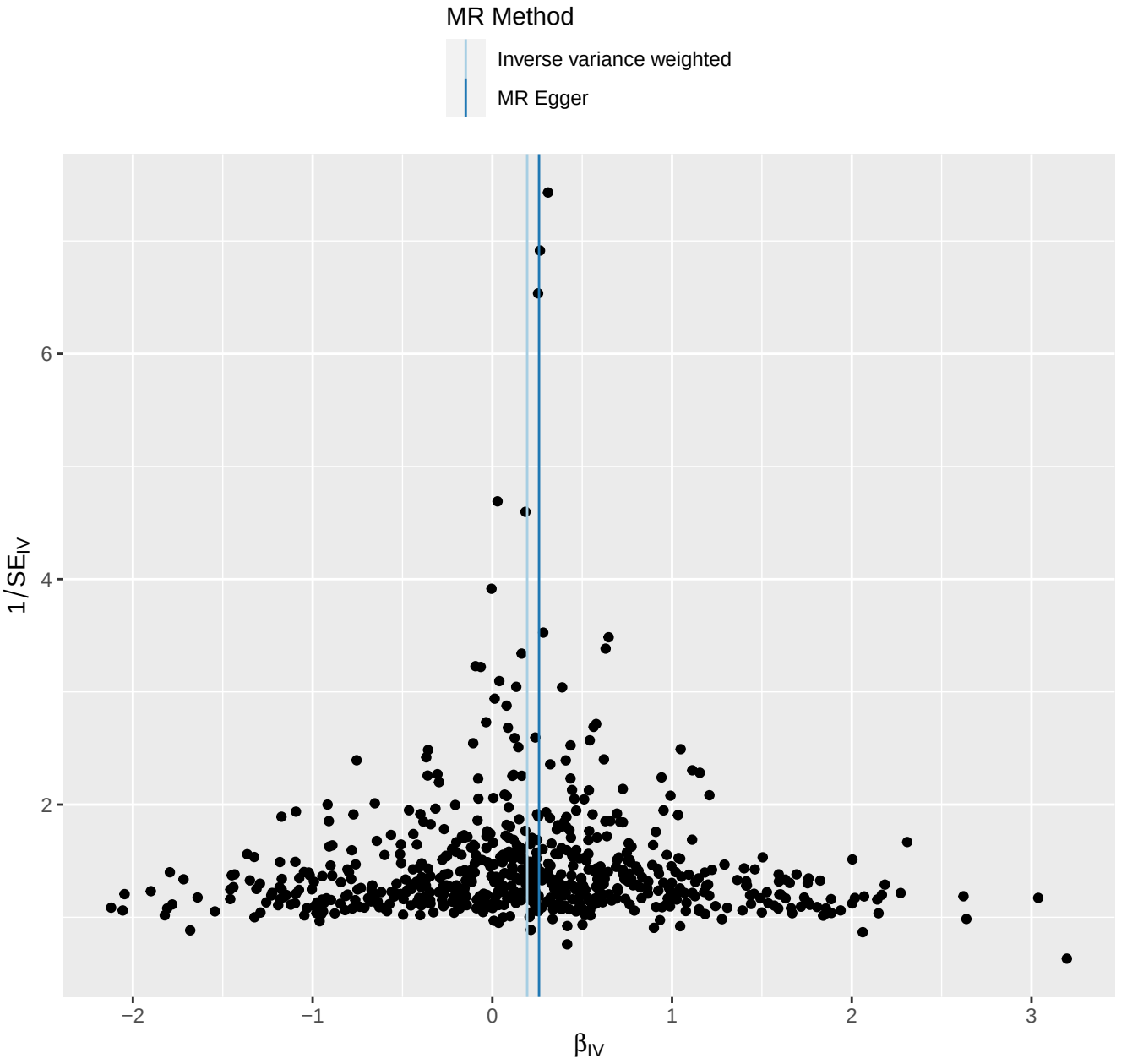
Isoleucine


MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2
−1
0
1
2
3
β_IV

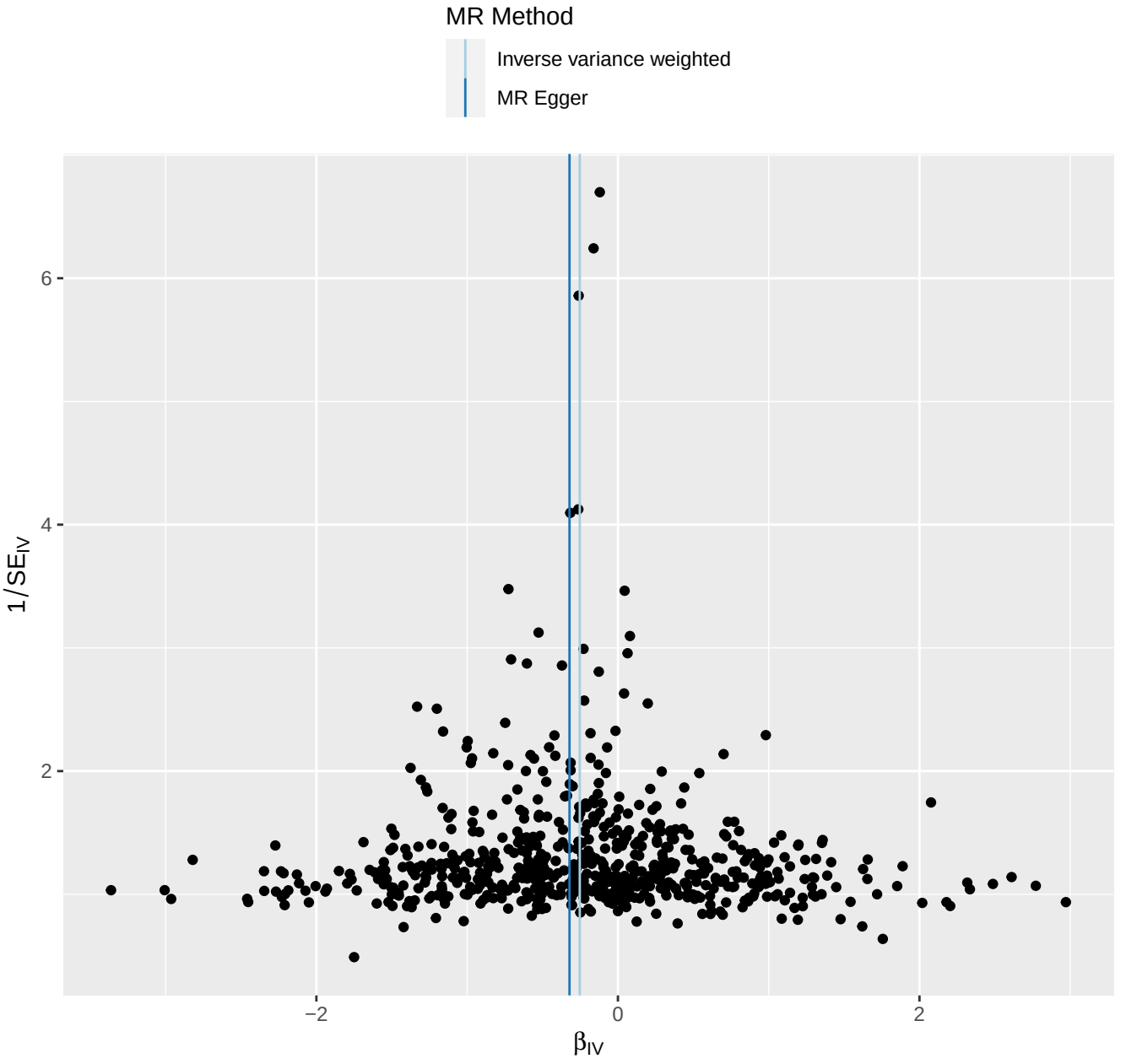
Lactate

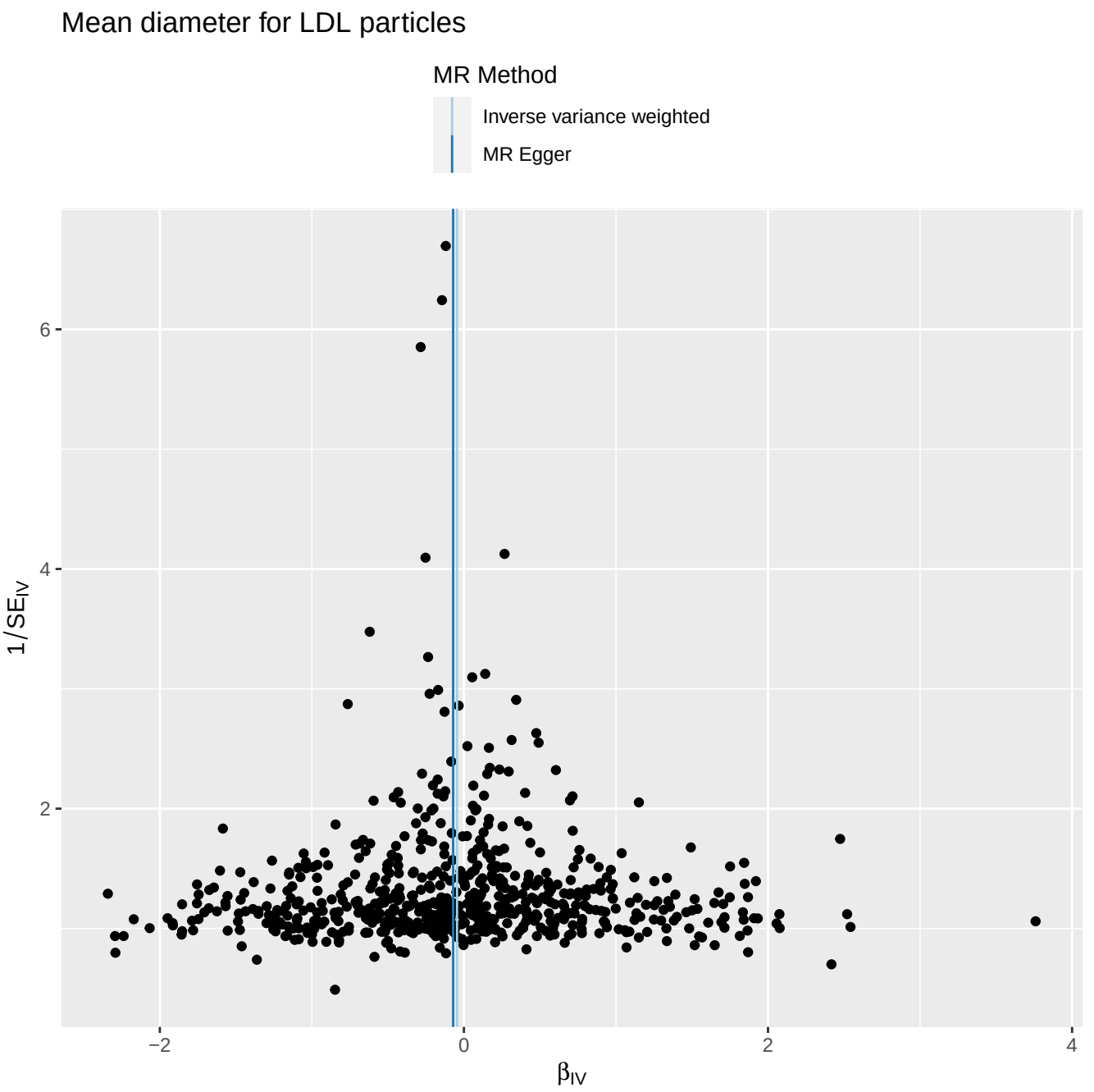

MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2
−1
0
1
2
3
β_IV

Leucine

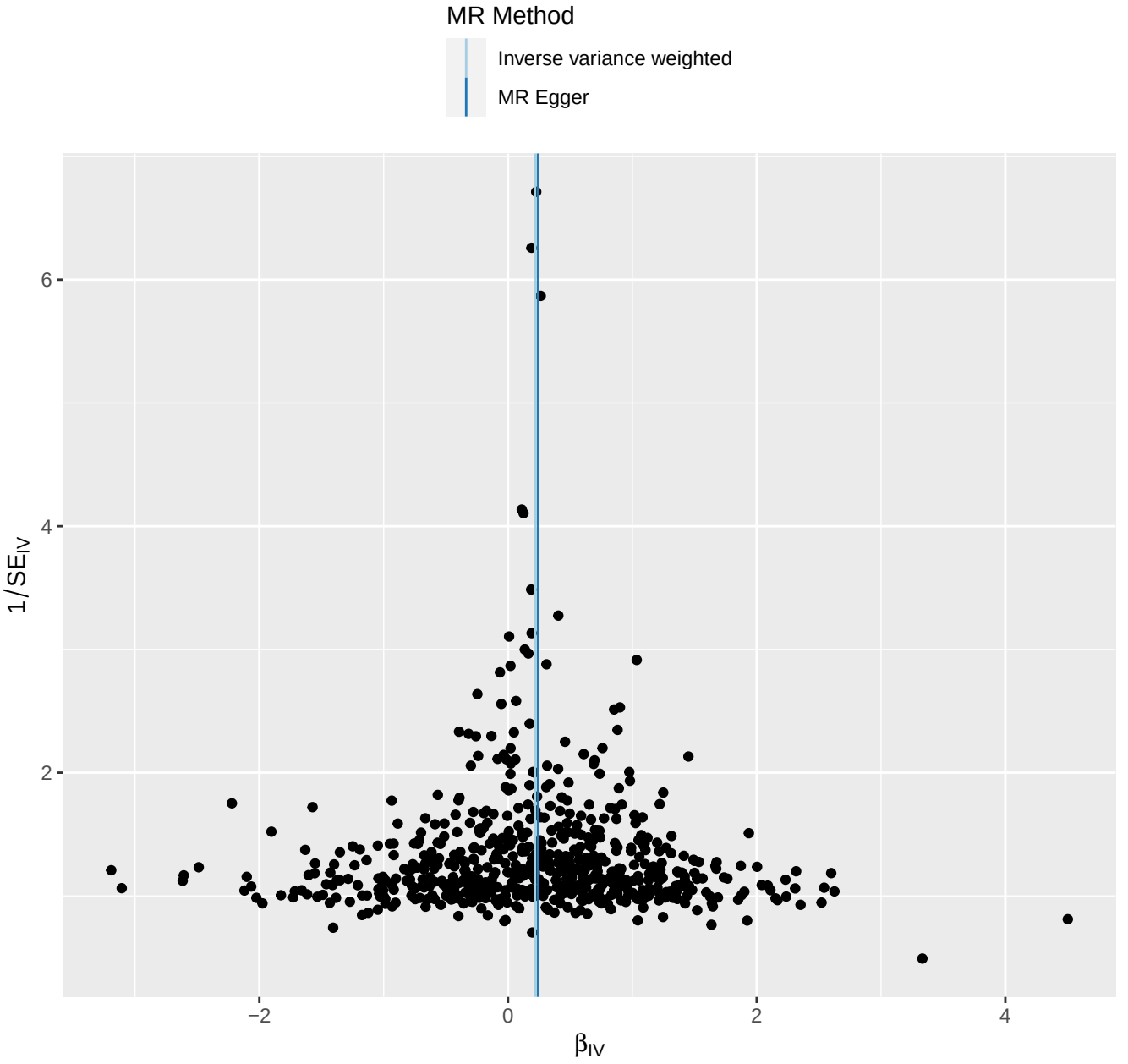

MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2
−1
0
1
2
3
β_IV

Mean diameter for HDL particles

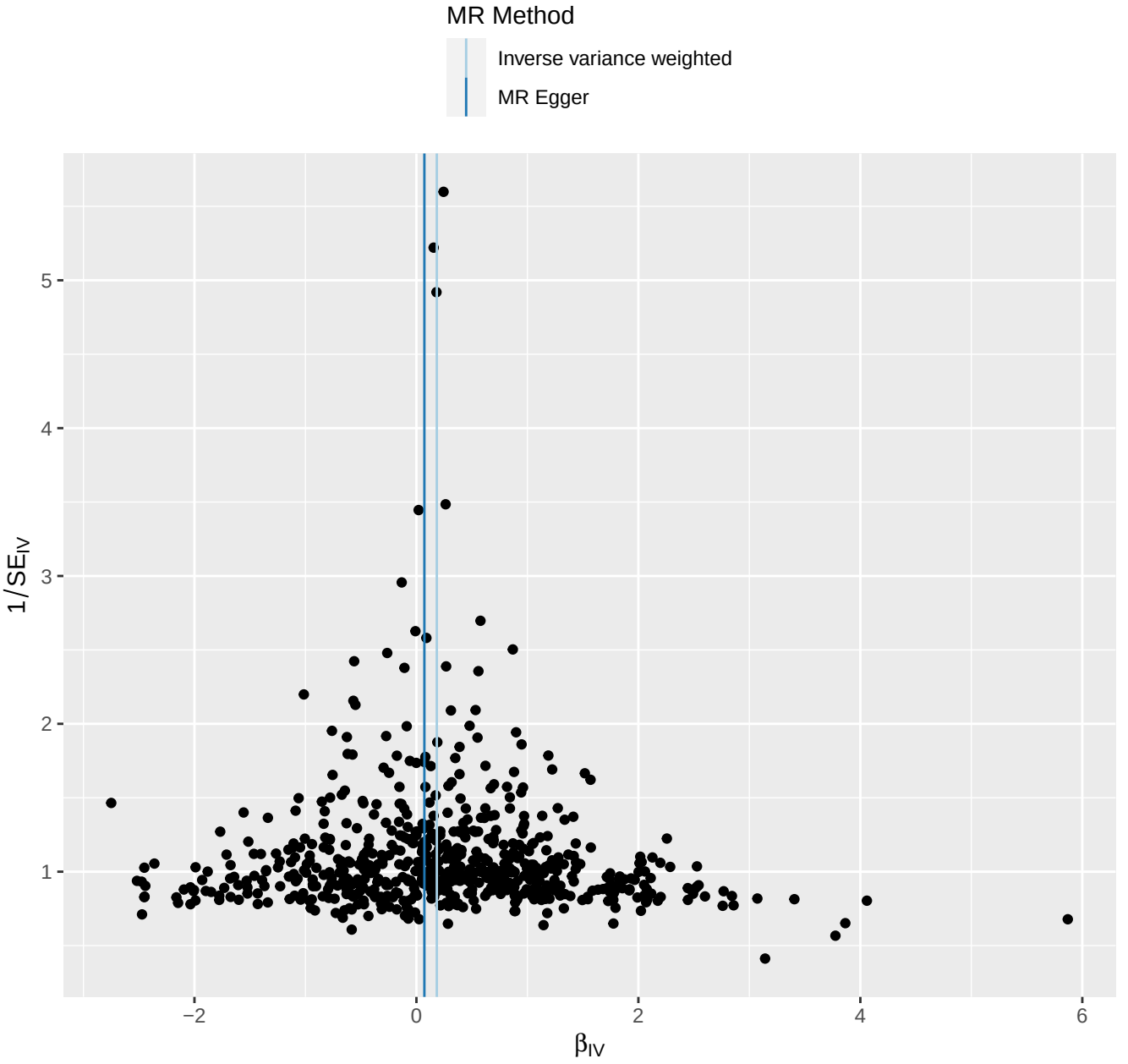


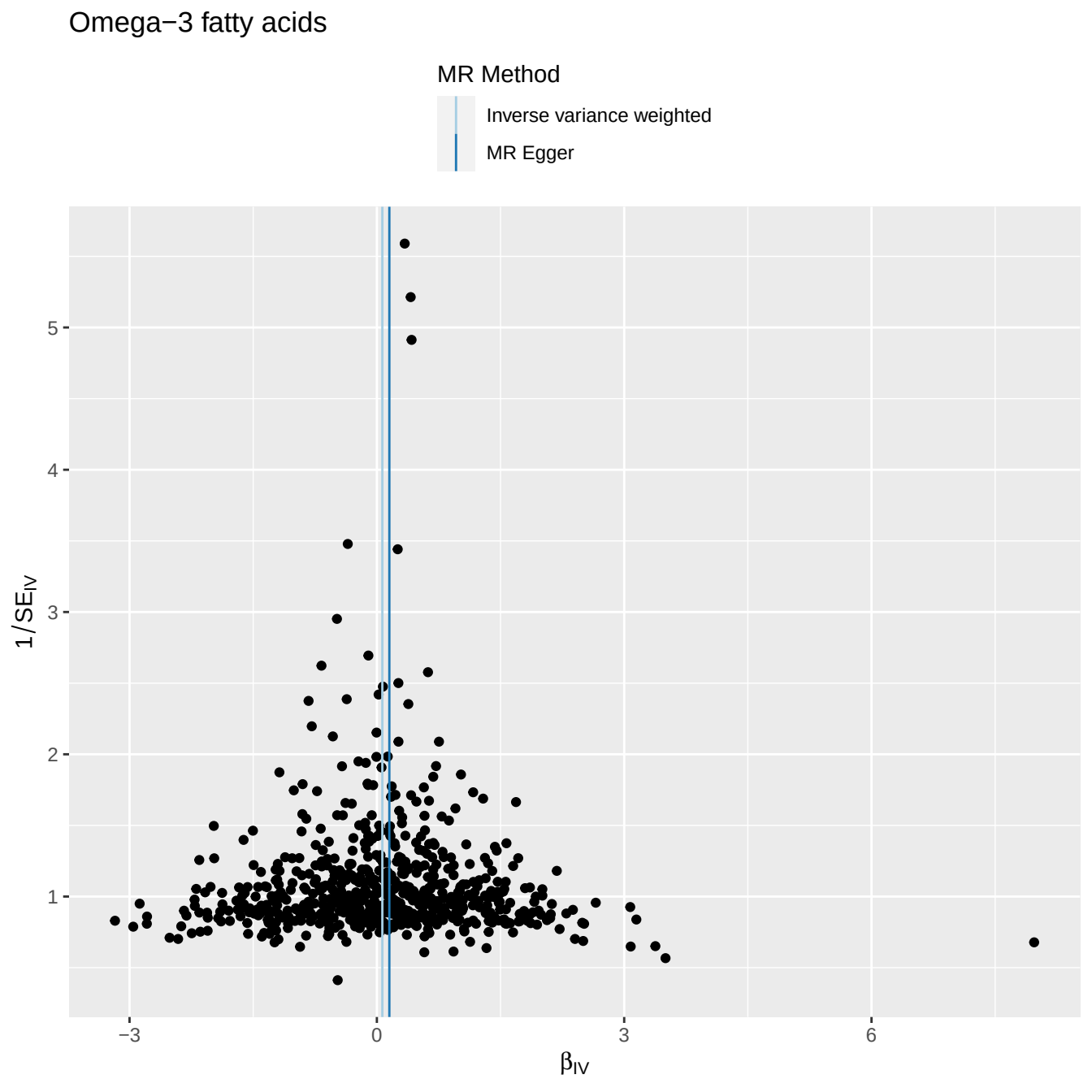

Mean diameter for LDL particles
MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2
0
2
4
β_IV

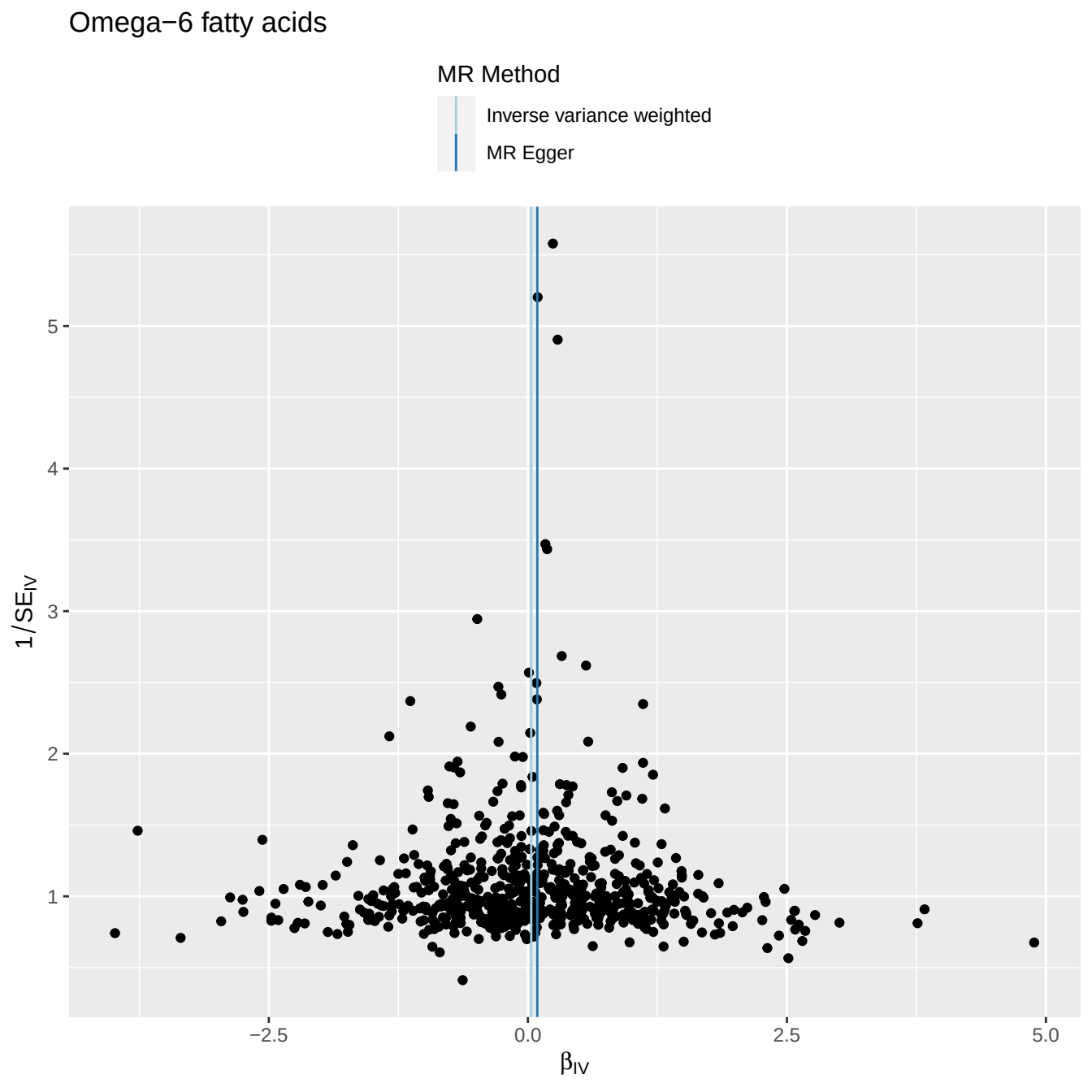
Mean diameter for VLDL particles



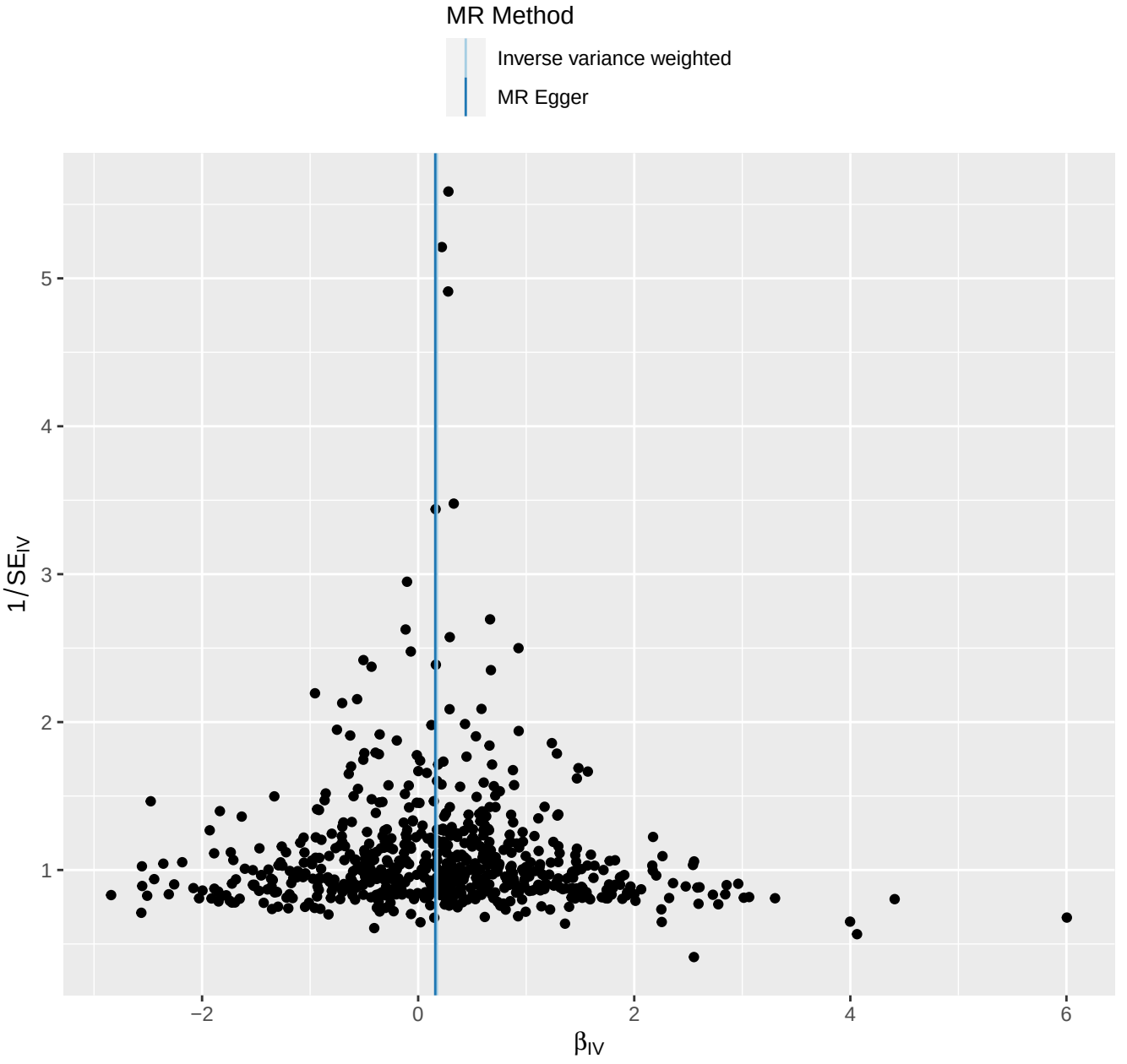
Mono−unsaturated fatty acids



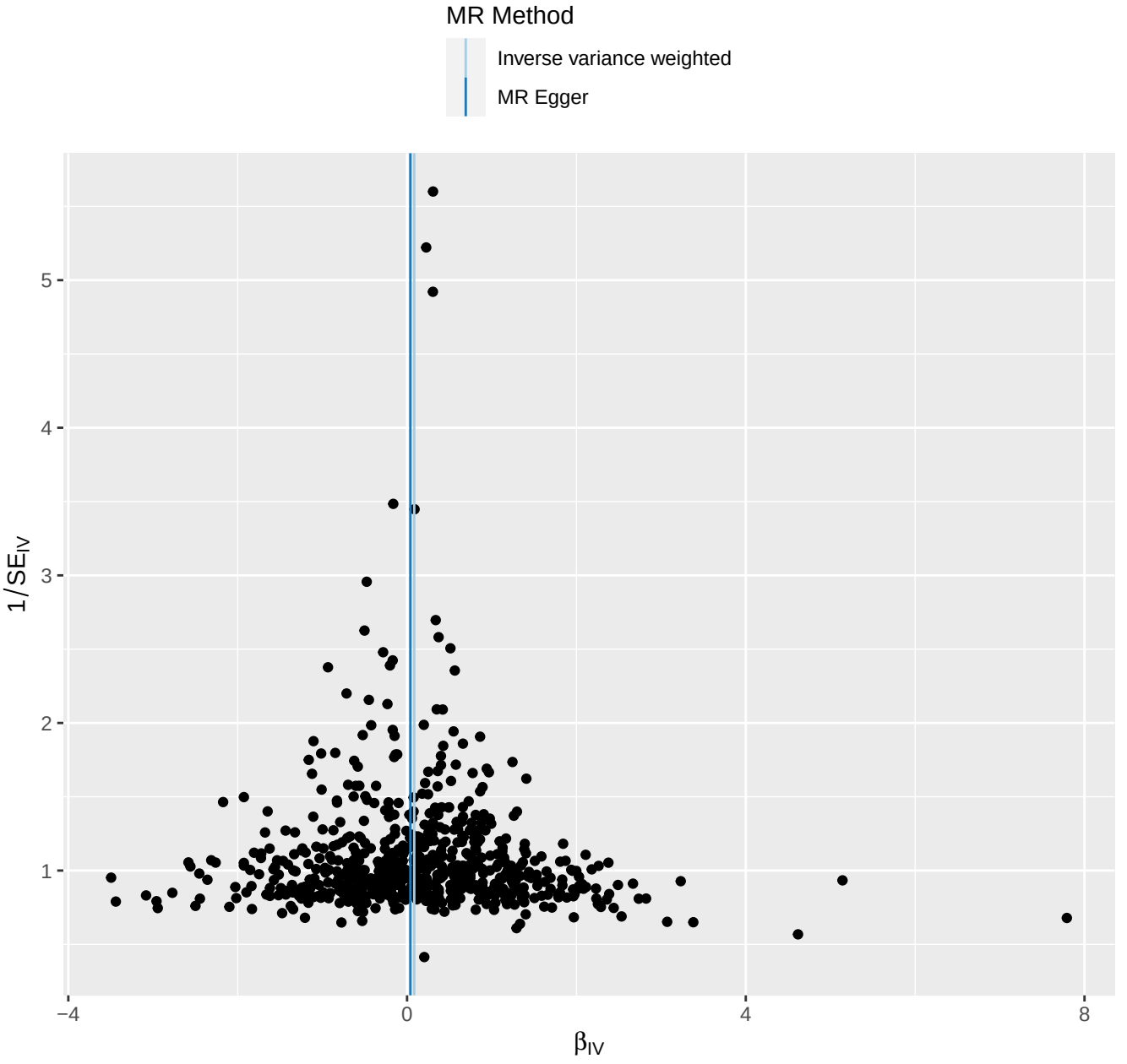

Omega−3 fatty acids
MR Method
Inverse variance weighted
MR Egger
1/SE_IV
5
4
3
2
1
−3
0
3
6
β_IV


Omega−6 fatty acids
MR Method
Inverse variance weighted
MR Egger
1/SE_IV
5
4
3
2
1
−2.5
0.0
2.5
5.0
β_IV

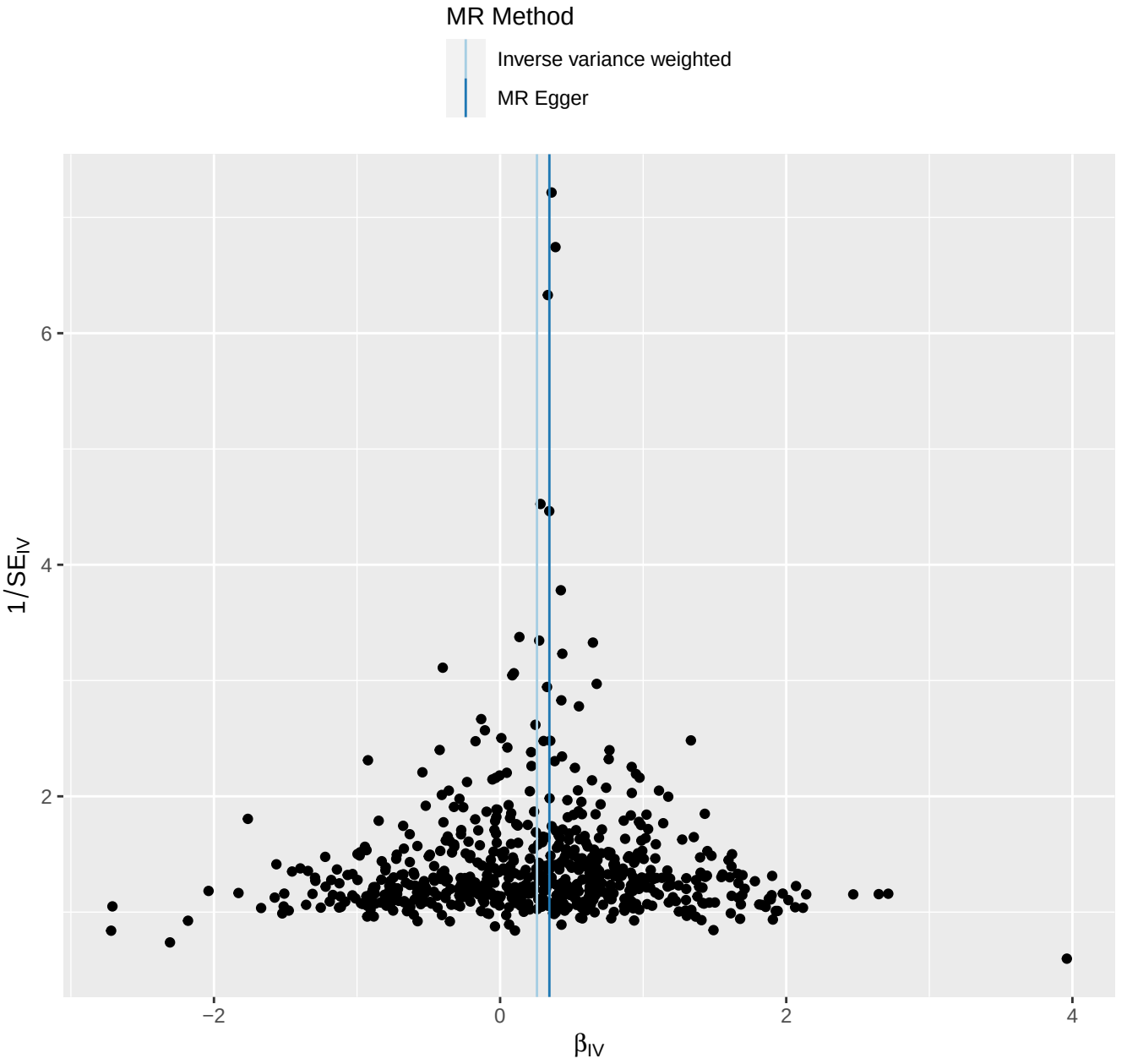
Omega−7, omega−9 and saturated fatty acids



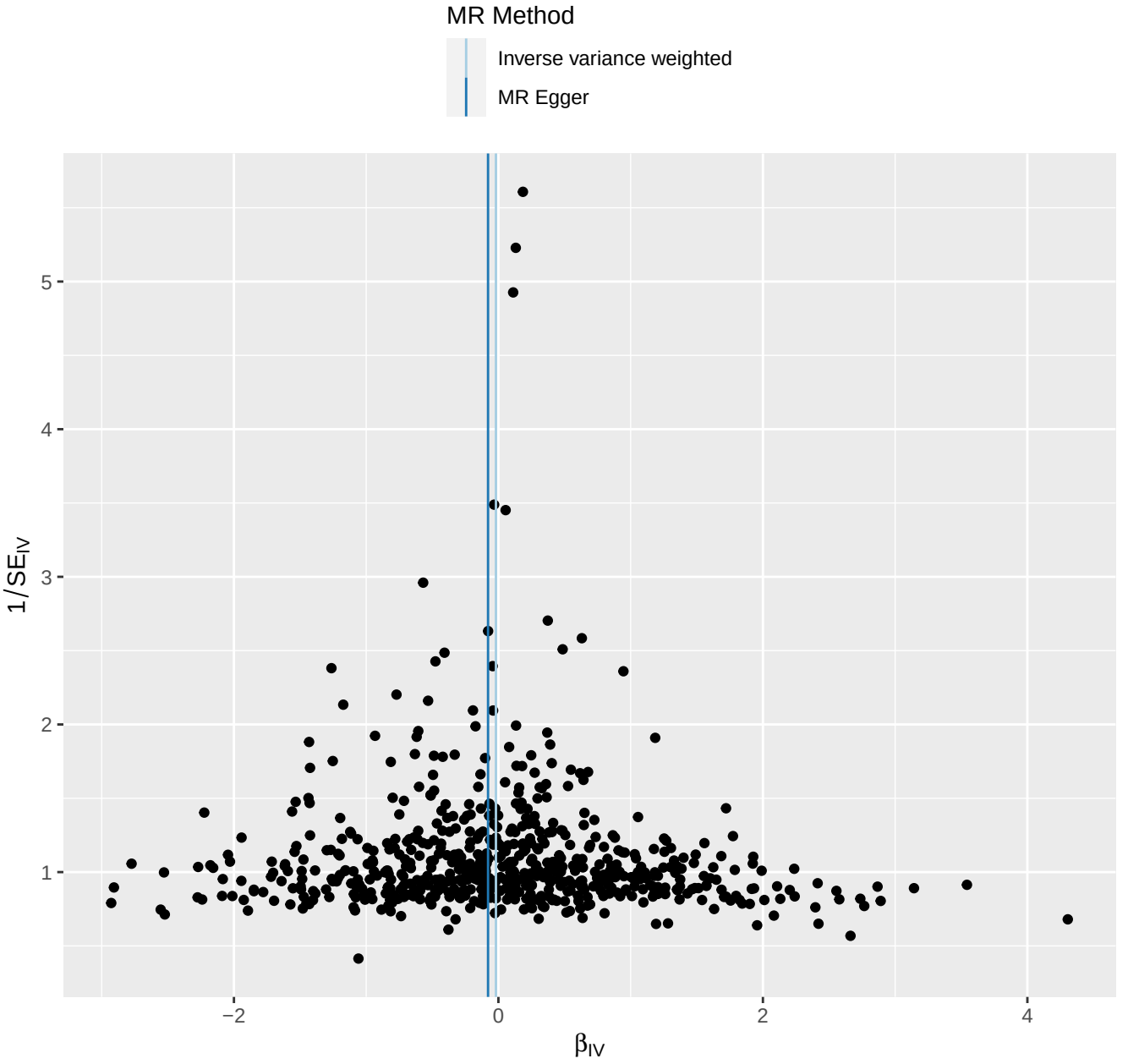
Other polyunsaturated fatty acids than 18:2



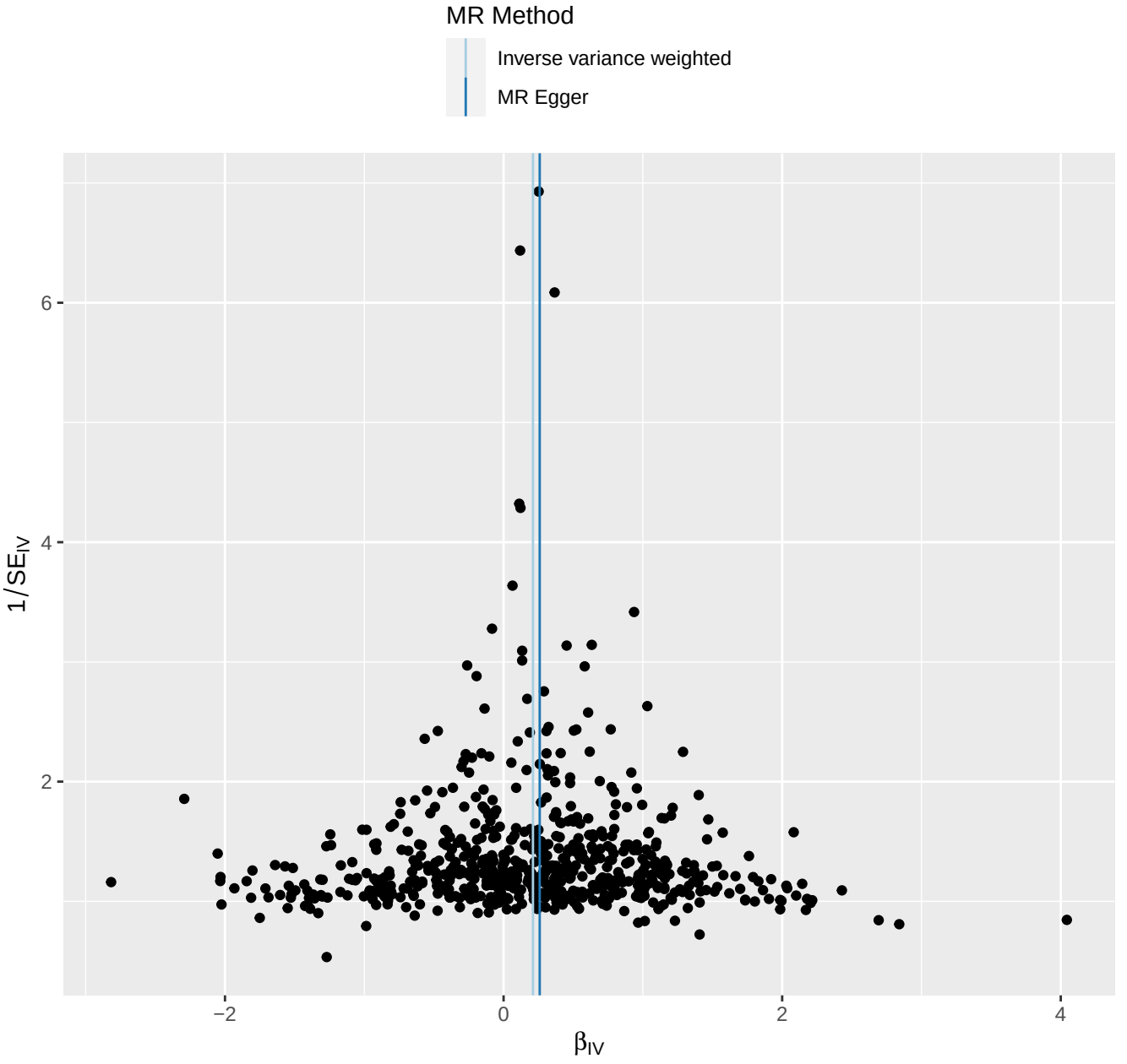
Phenylalanine

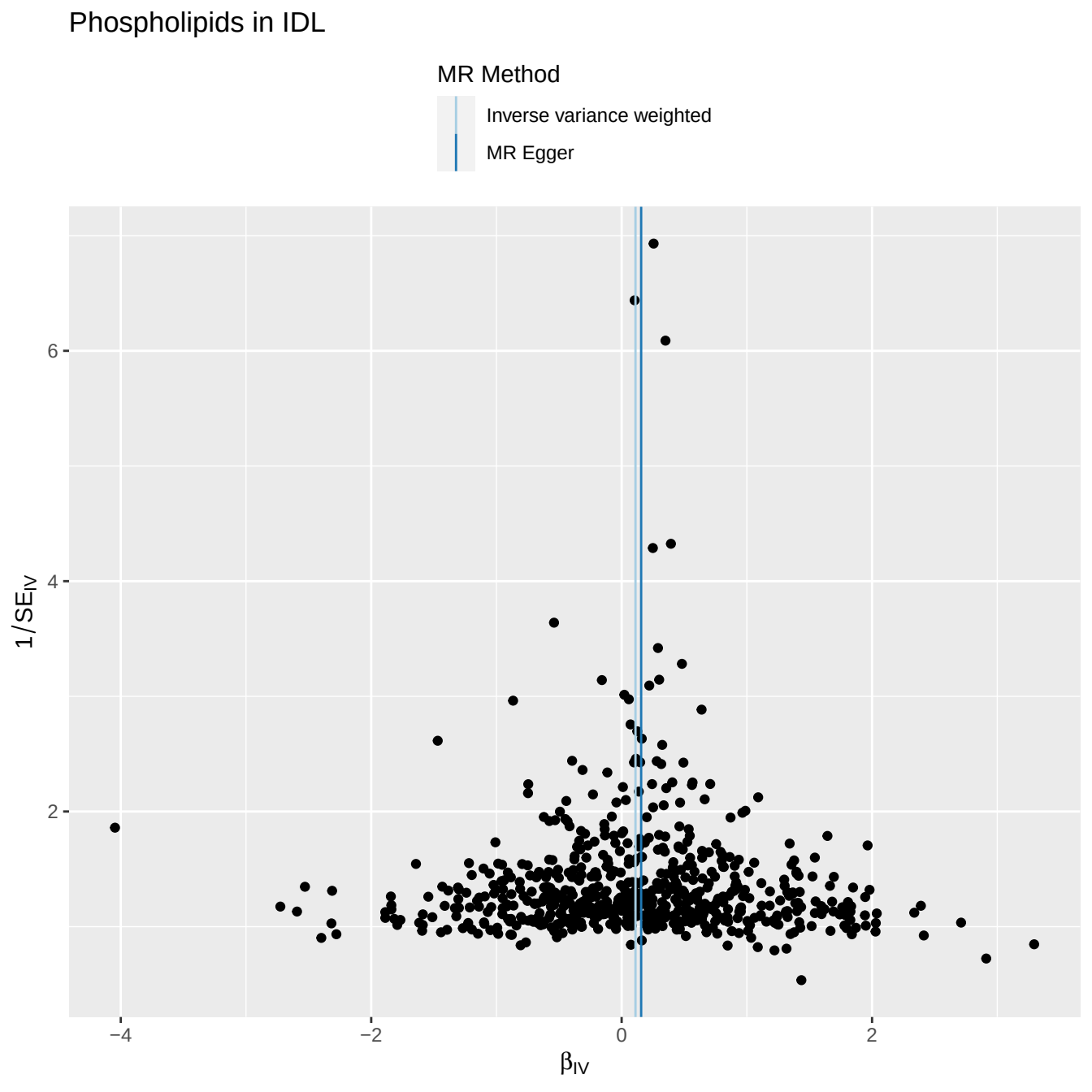


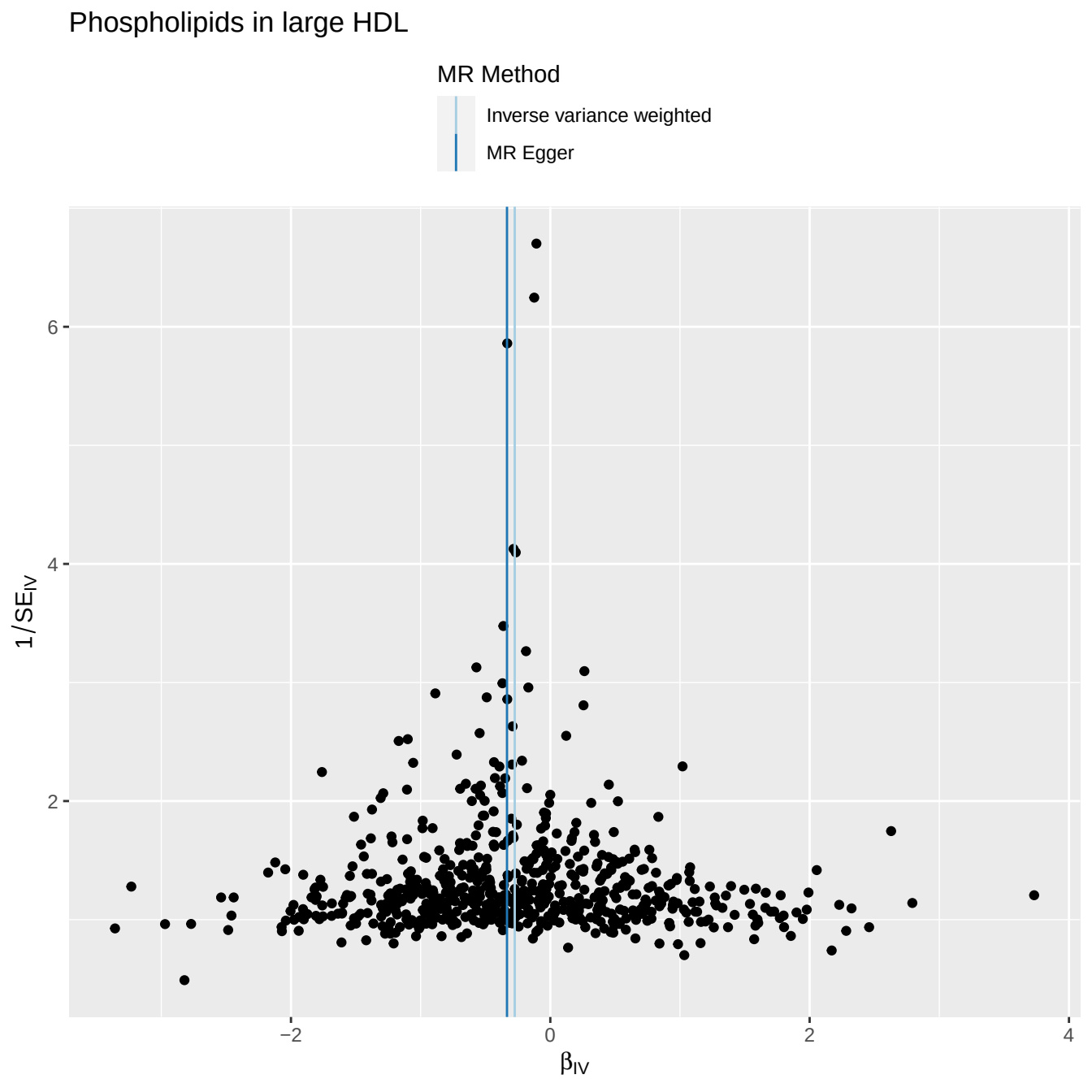
Phosphatidylcholine and other cholines

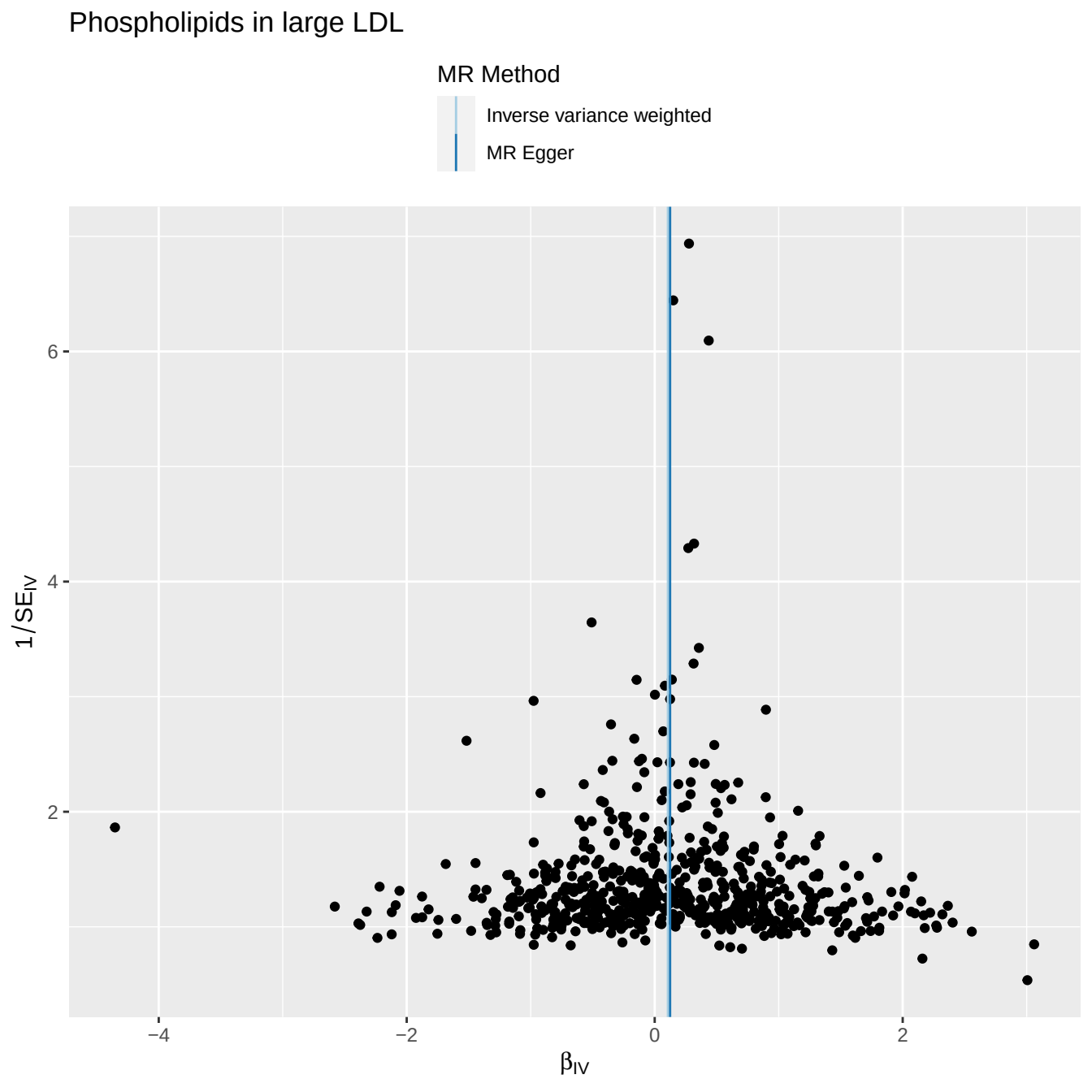


Phospholipids in chylomicrons and largest VLDL particles

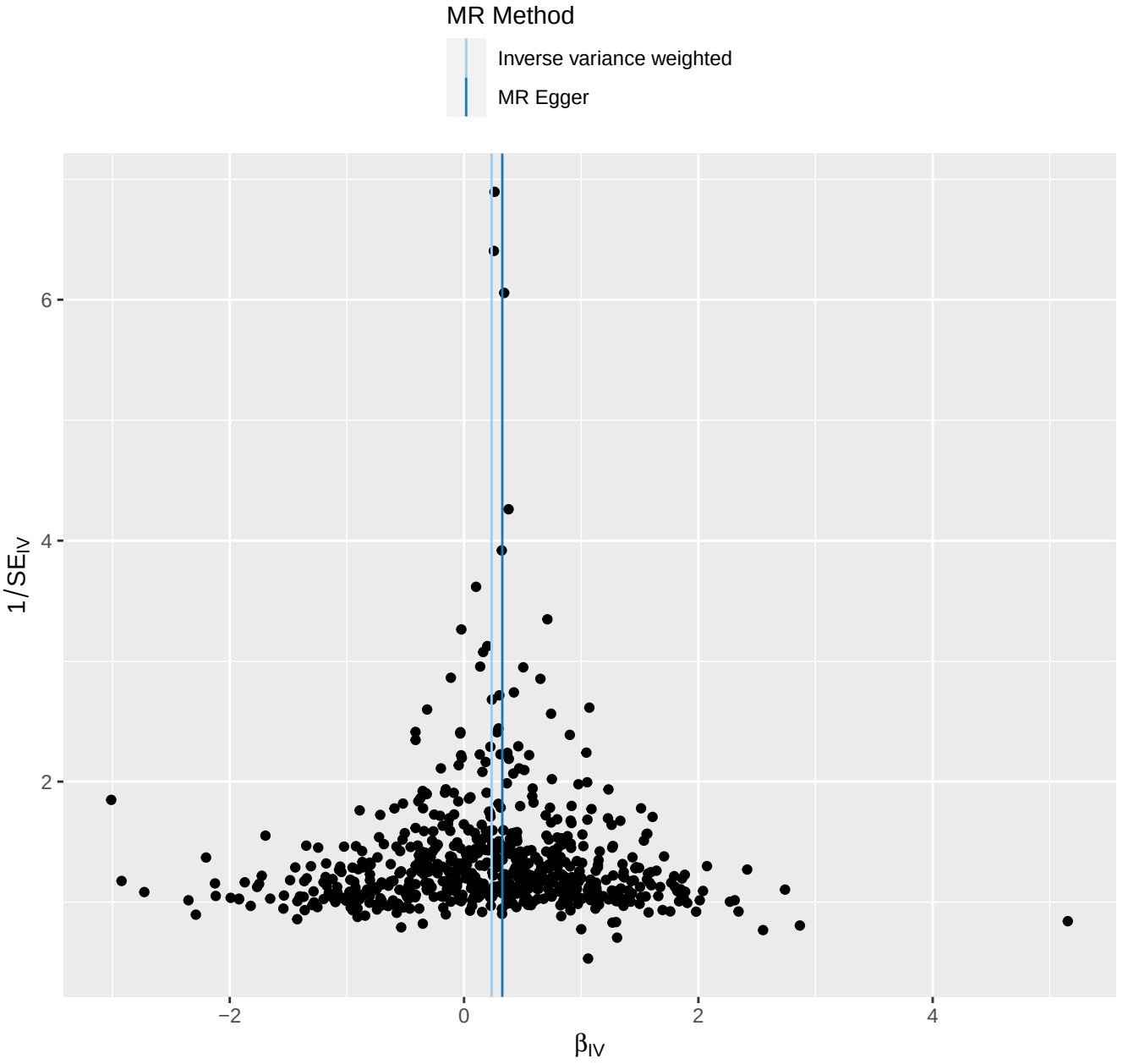



Phospholipids in IDL
MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−4
−2
0
2
β_IV

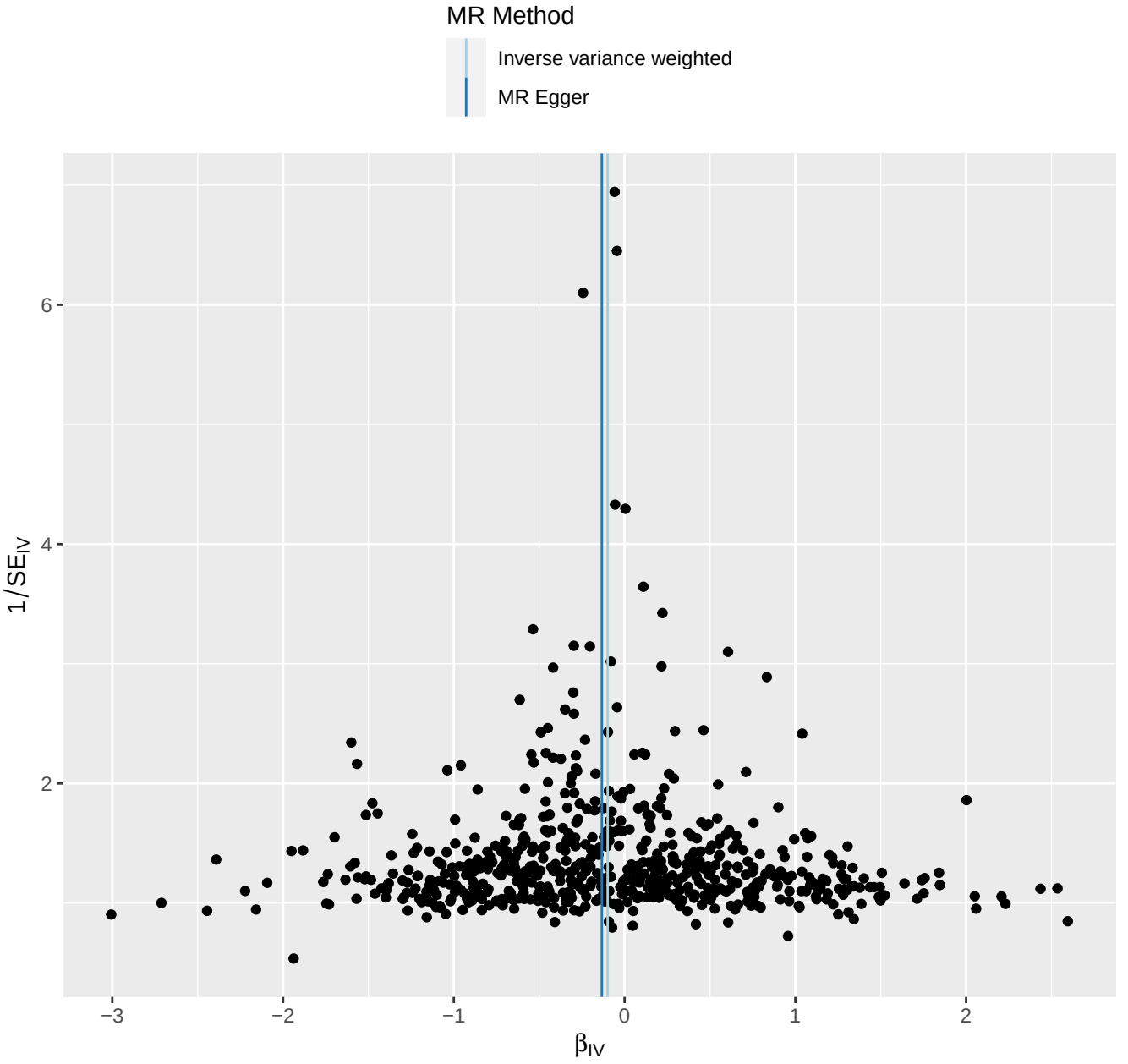

Phospholipids in large HDL
MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2
0
2
4
β_IV


Phospholipids in large LDL
MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−4
−2
0
2
β_IV

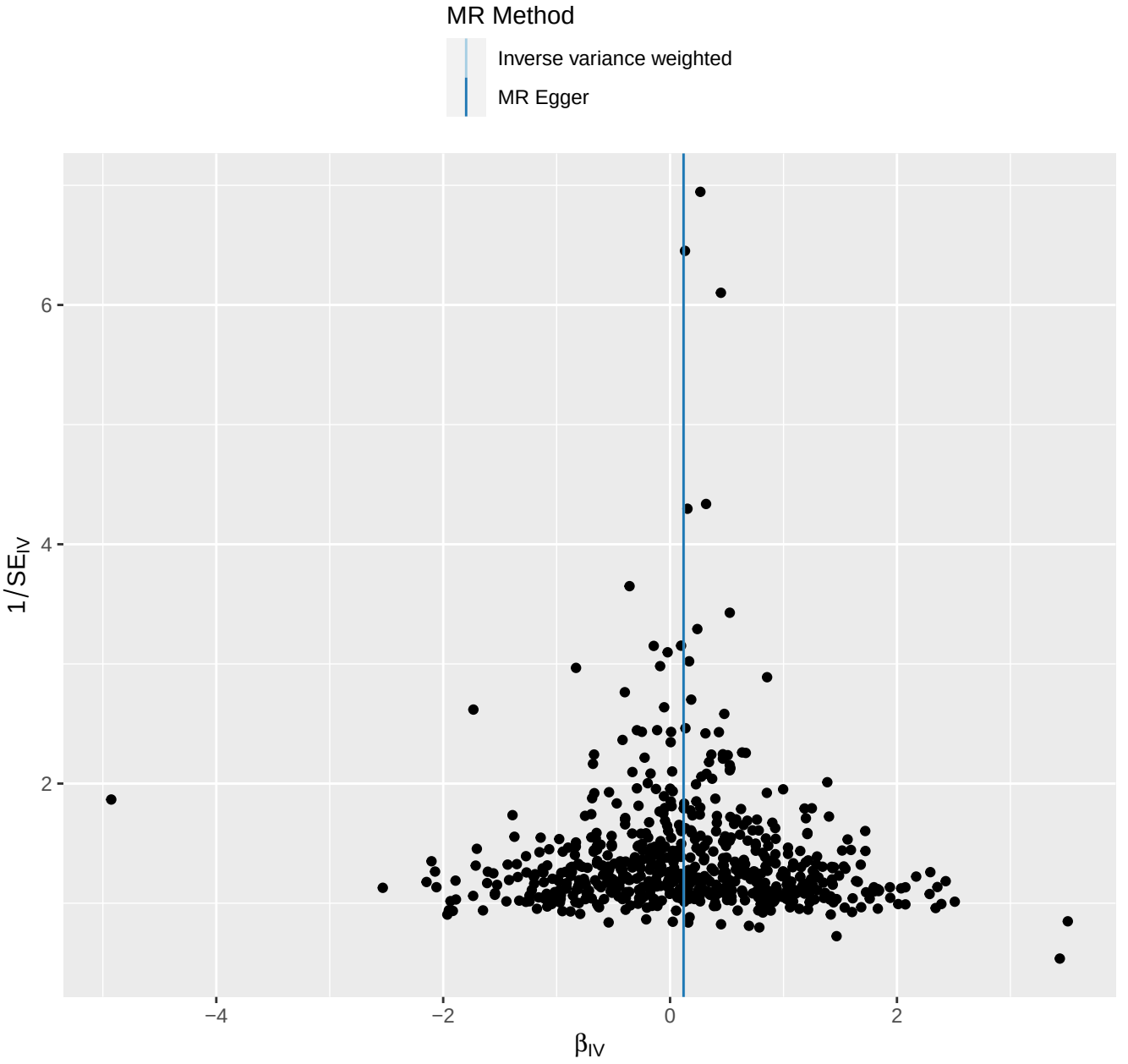
Phospholipids in large VLDL



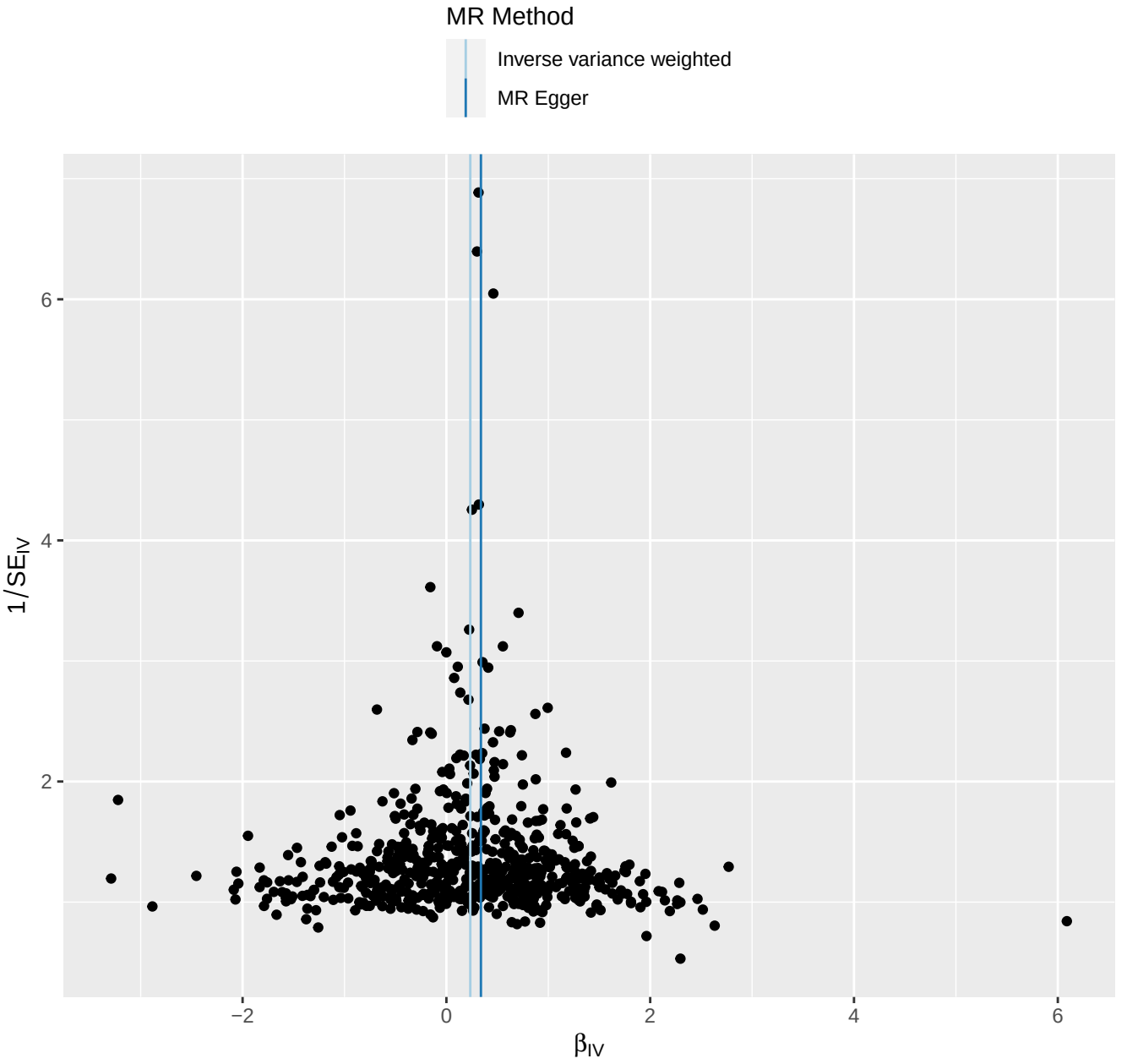
Phospholipids in medium HDL



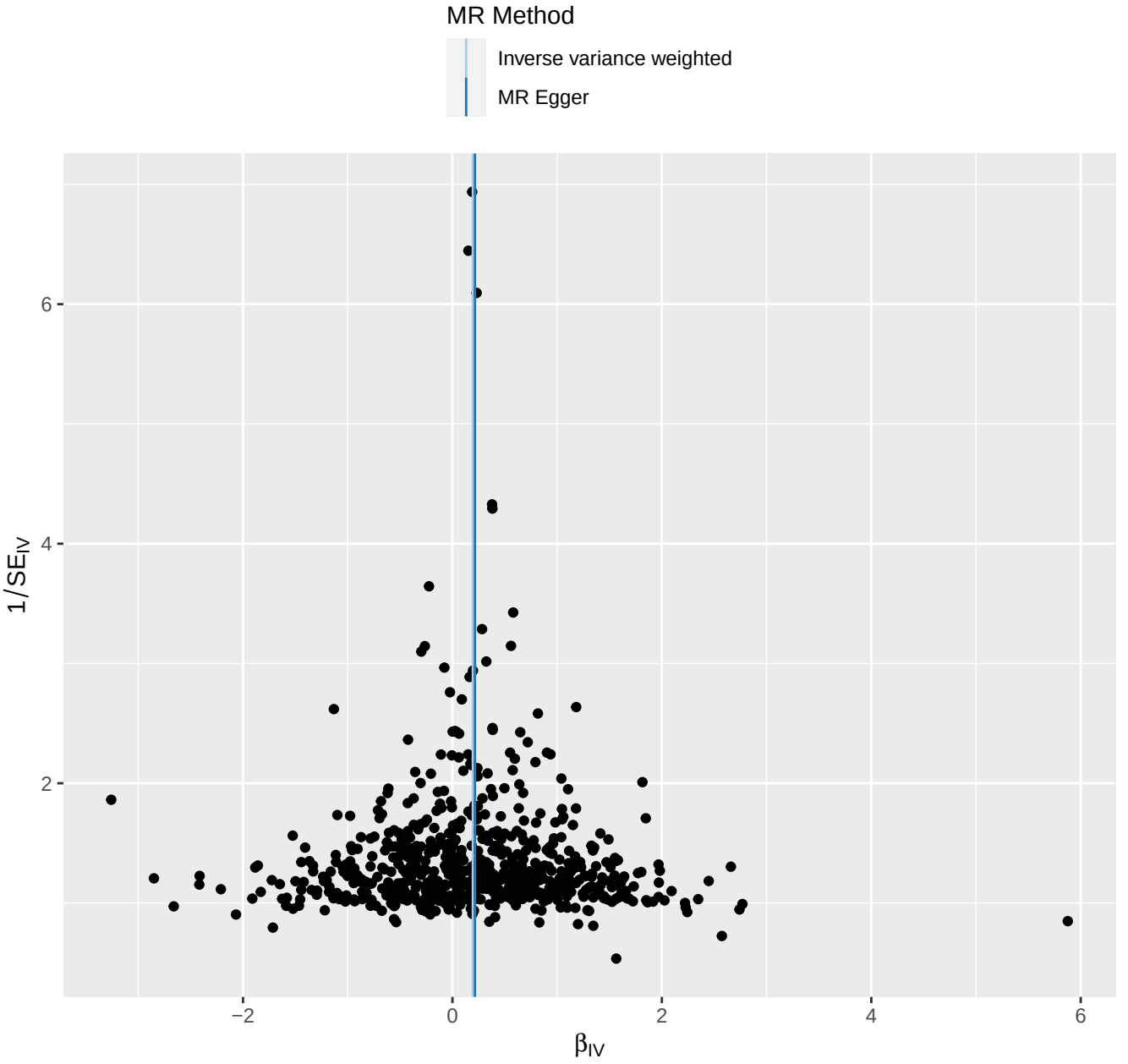
Phospholipids in medium LDL



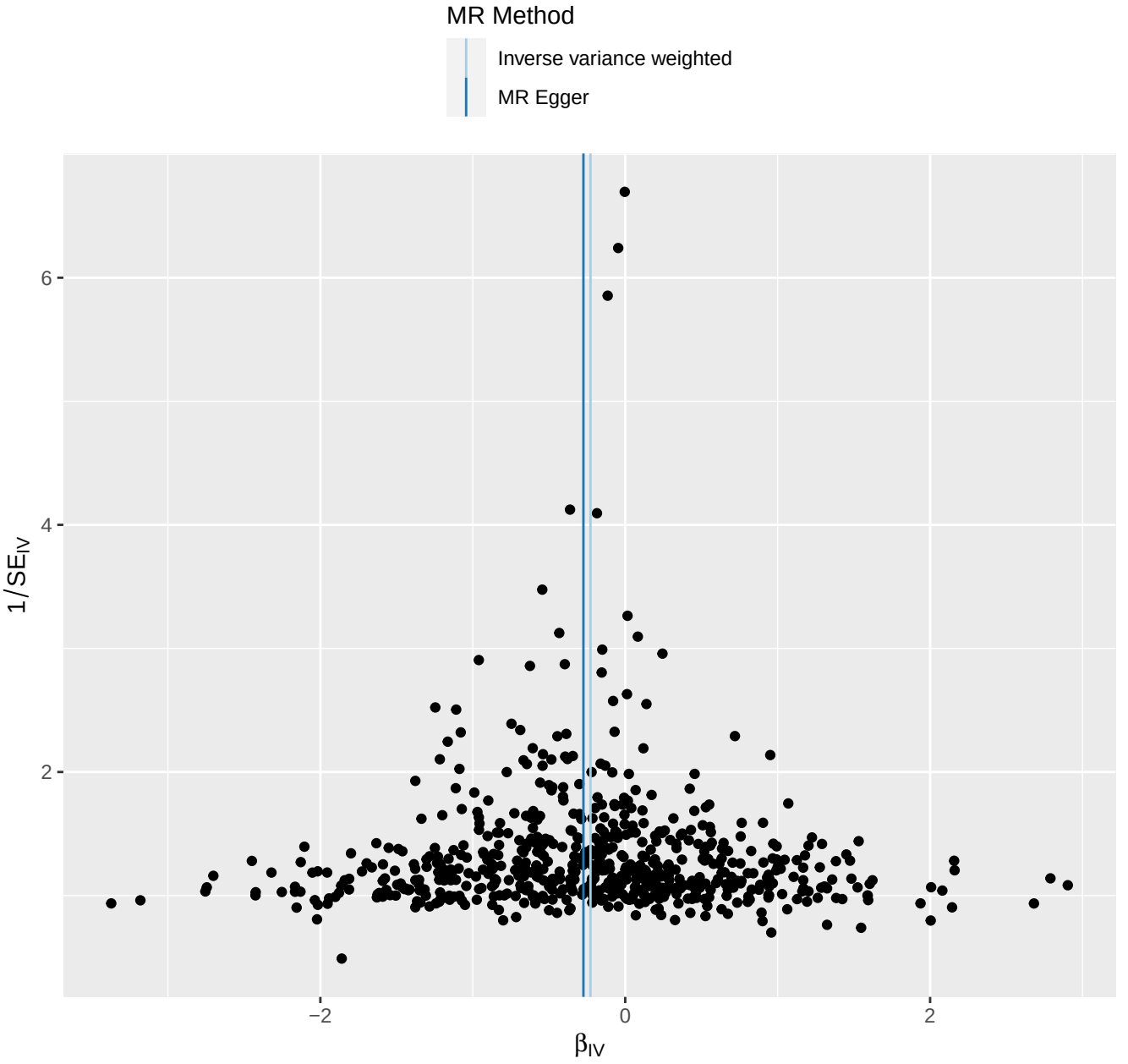
Phospholipids in medium VLDL



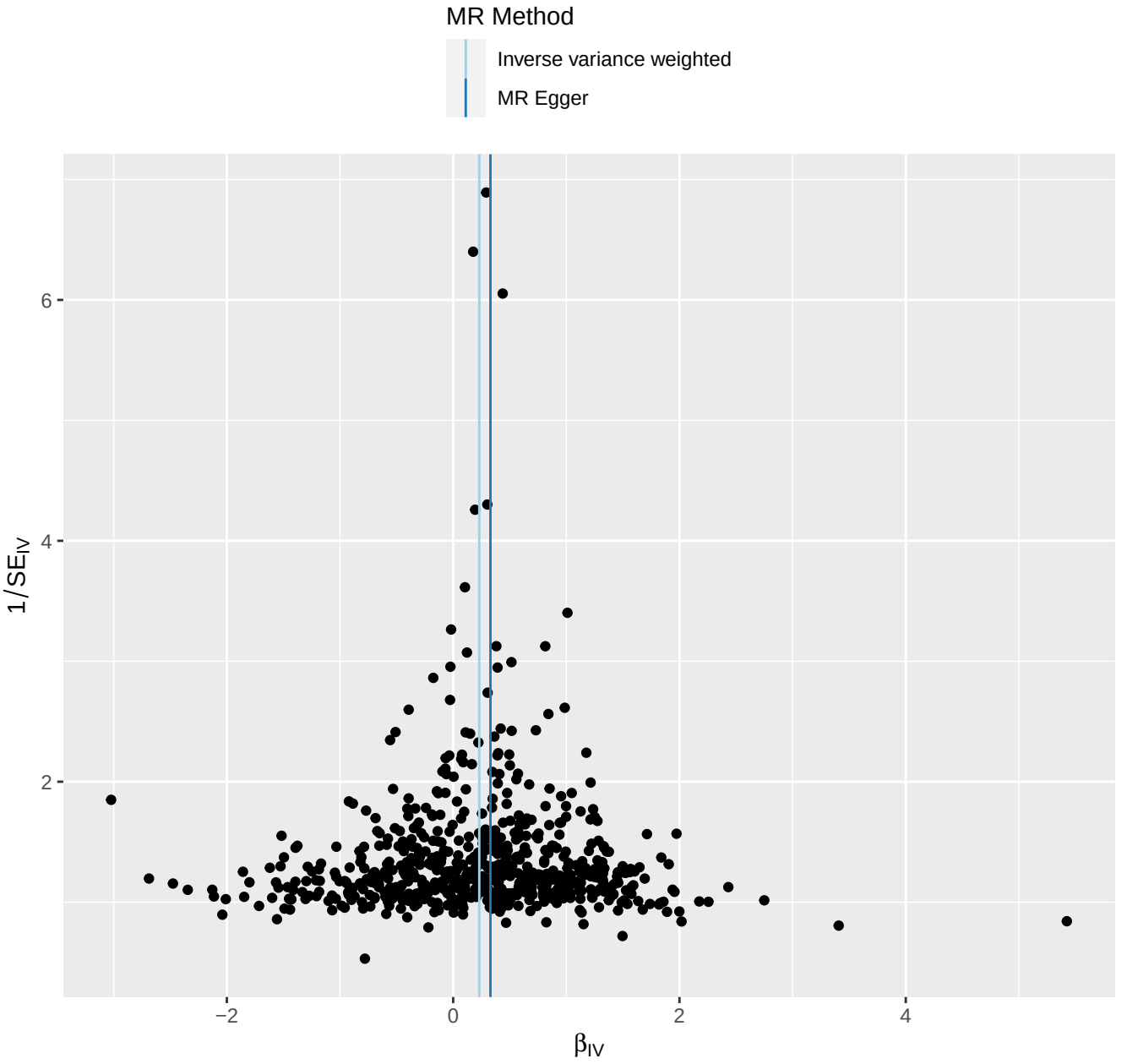
Phospholipids in small VLDL



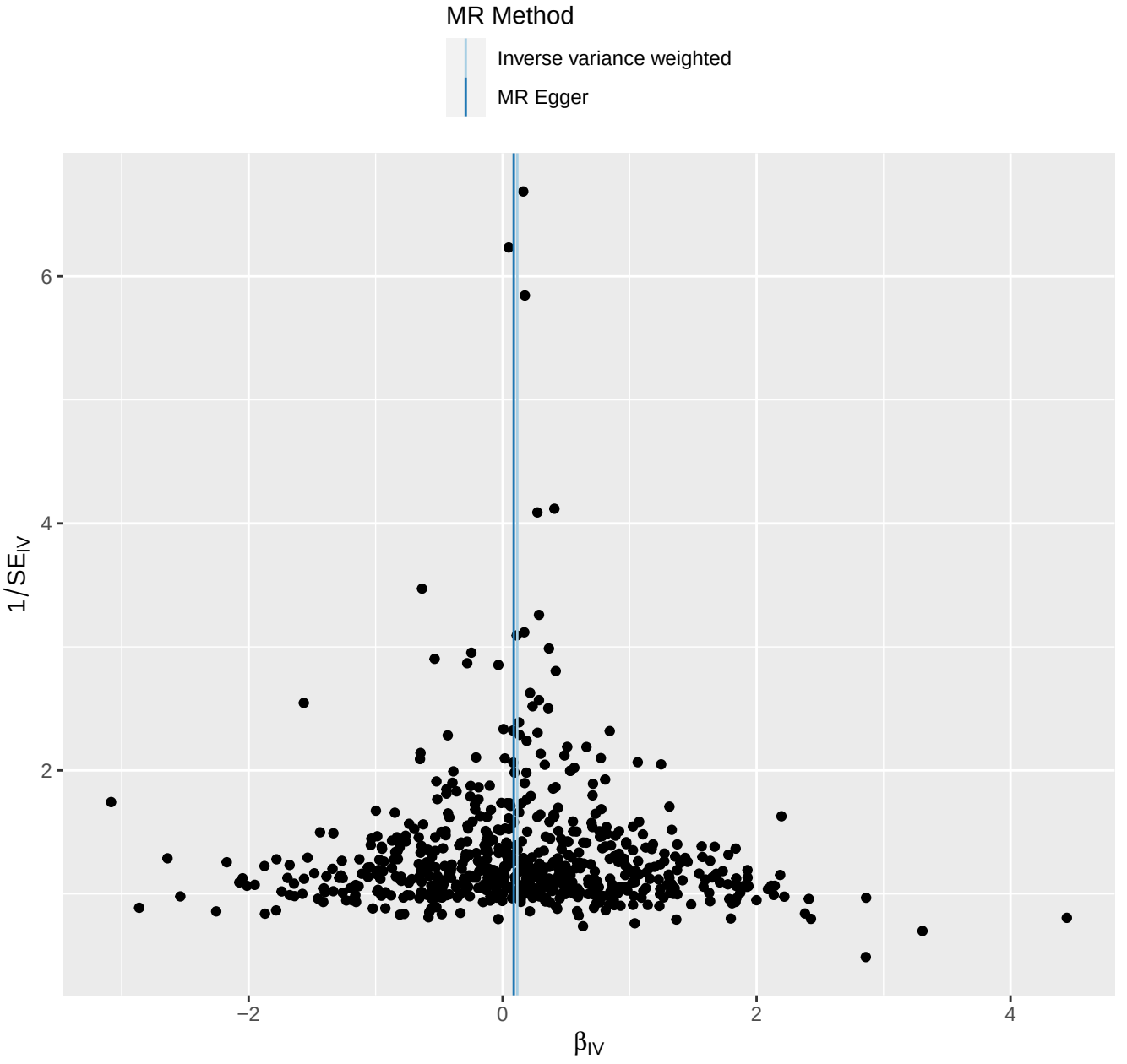
Phospholipids in very large HDL



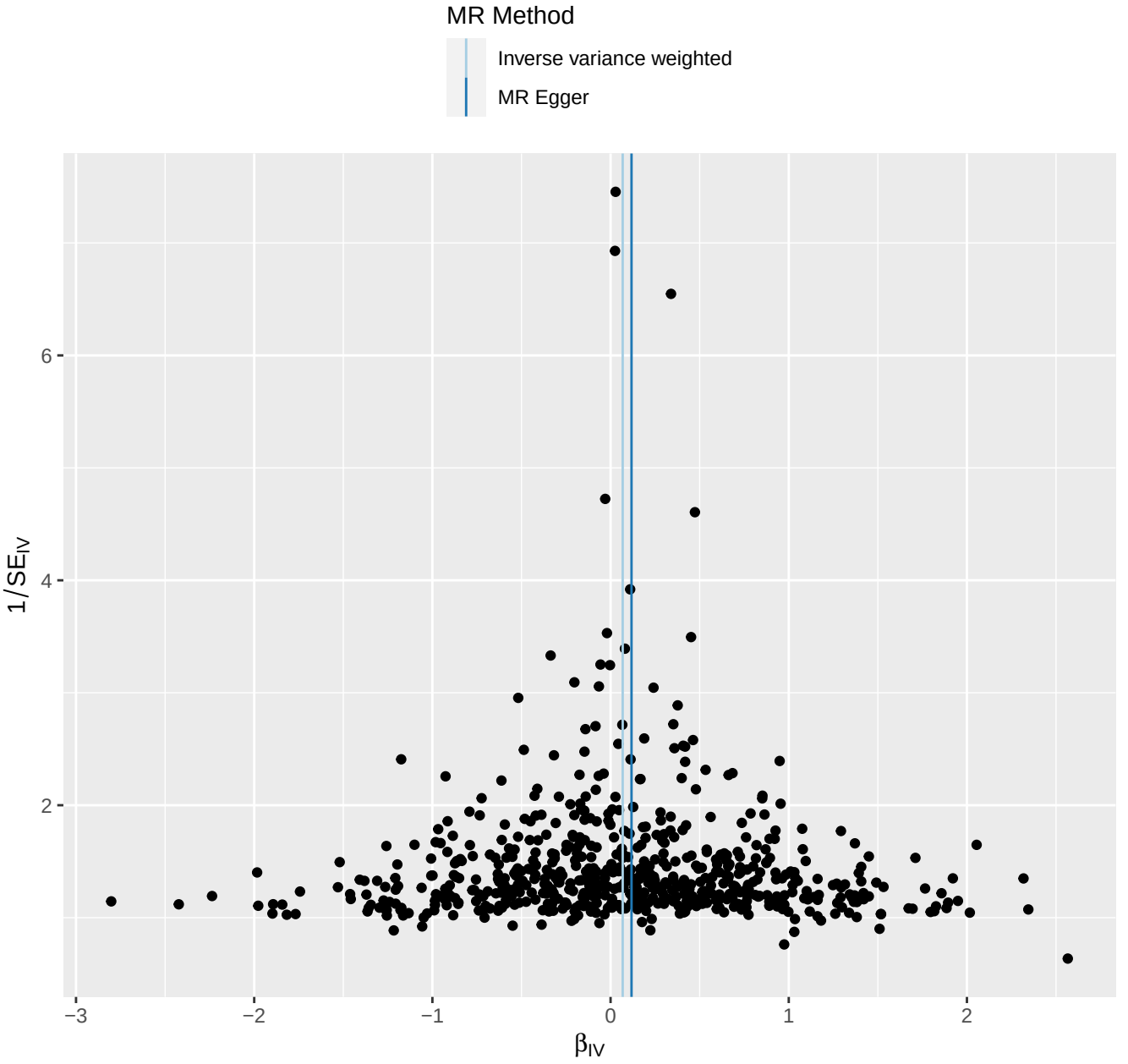
Phospholipids in very large VLDL



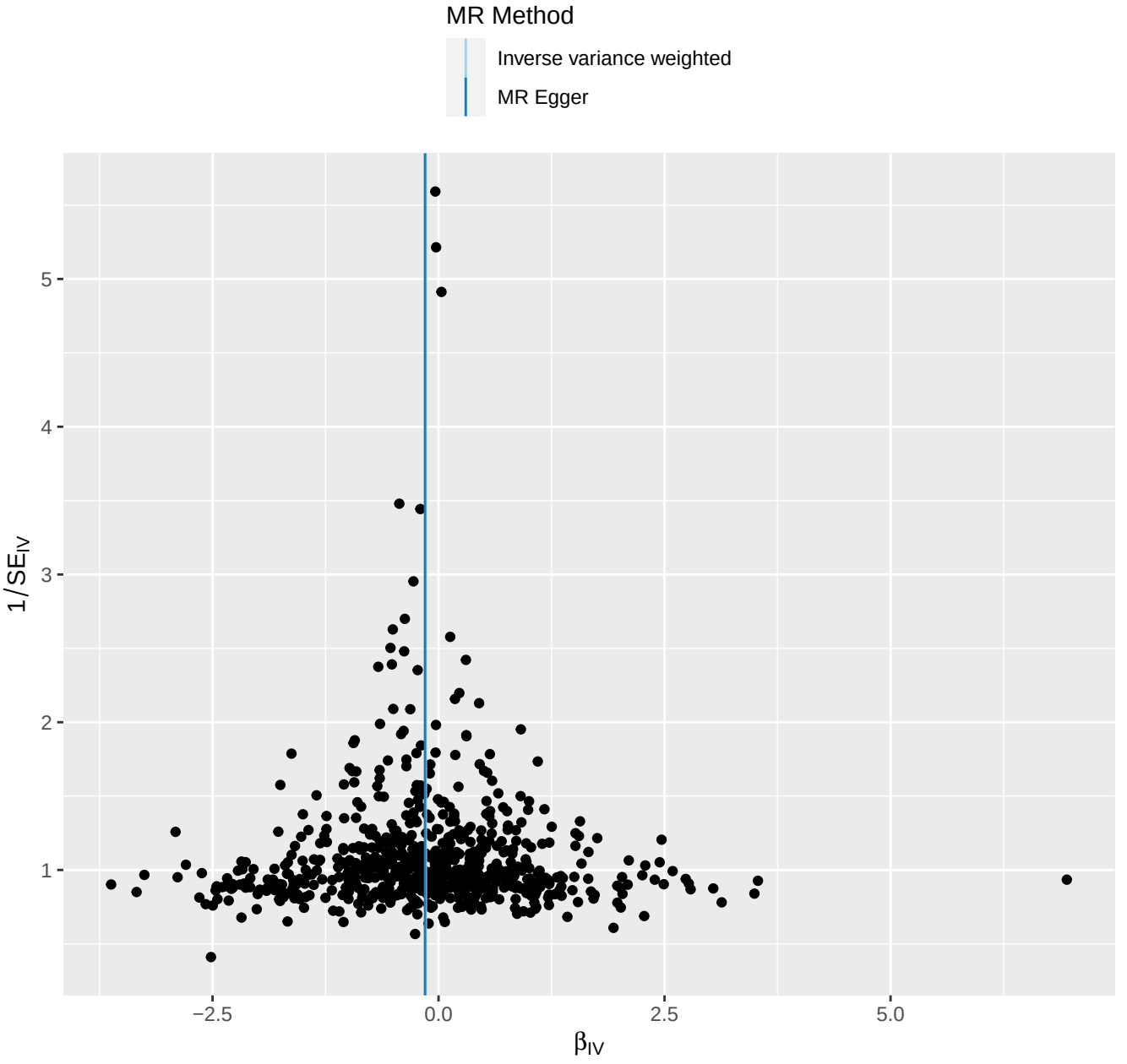
Phospholipids in very small VLDL



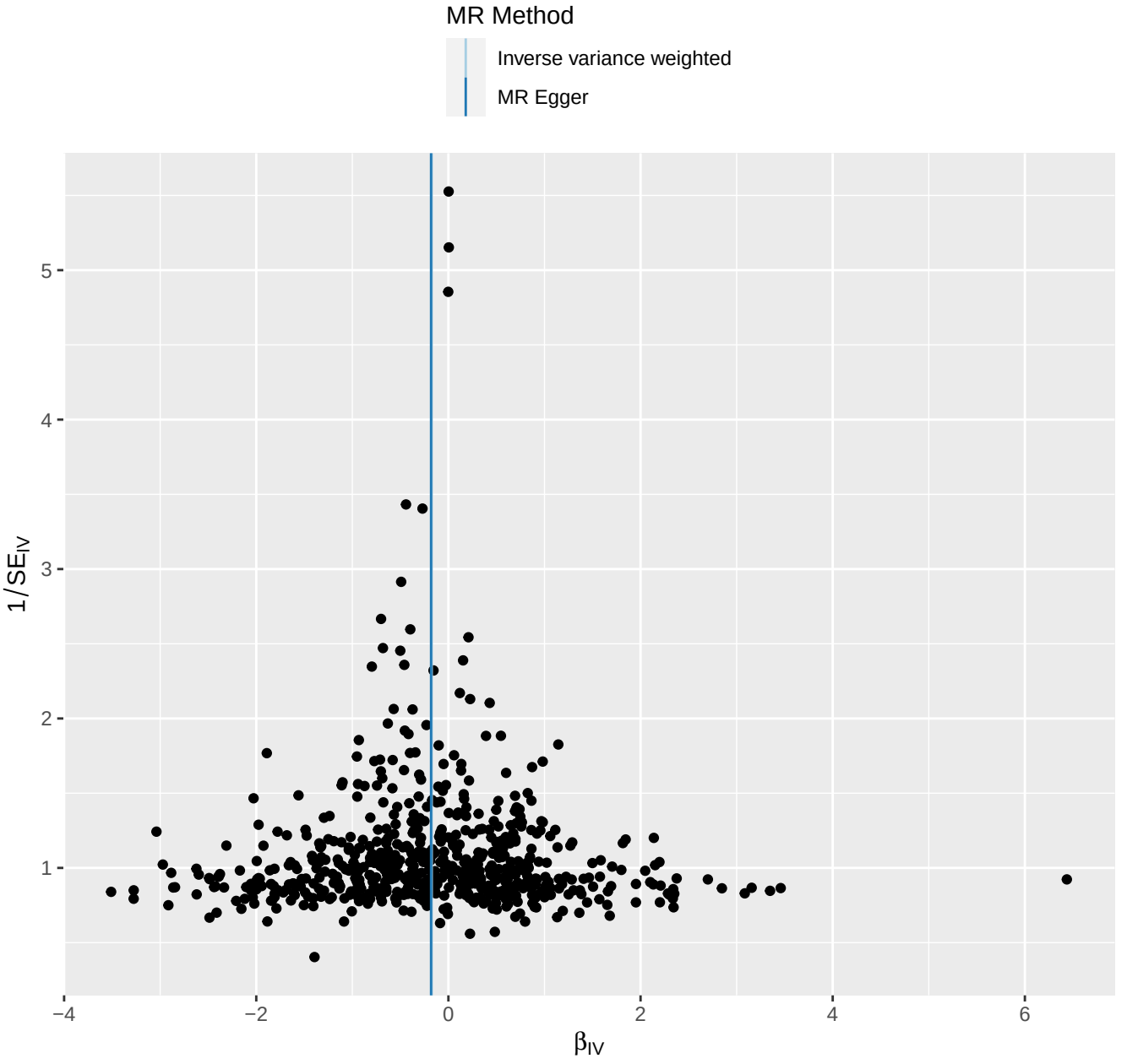
Pyruvate


MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−3
−2
−1
0
1
2
β_IV

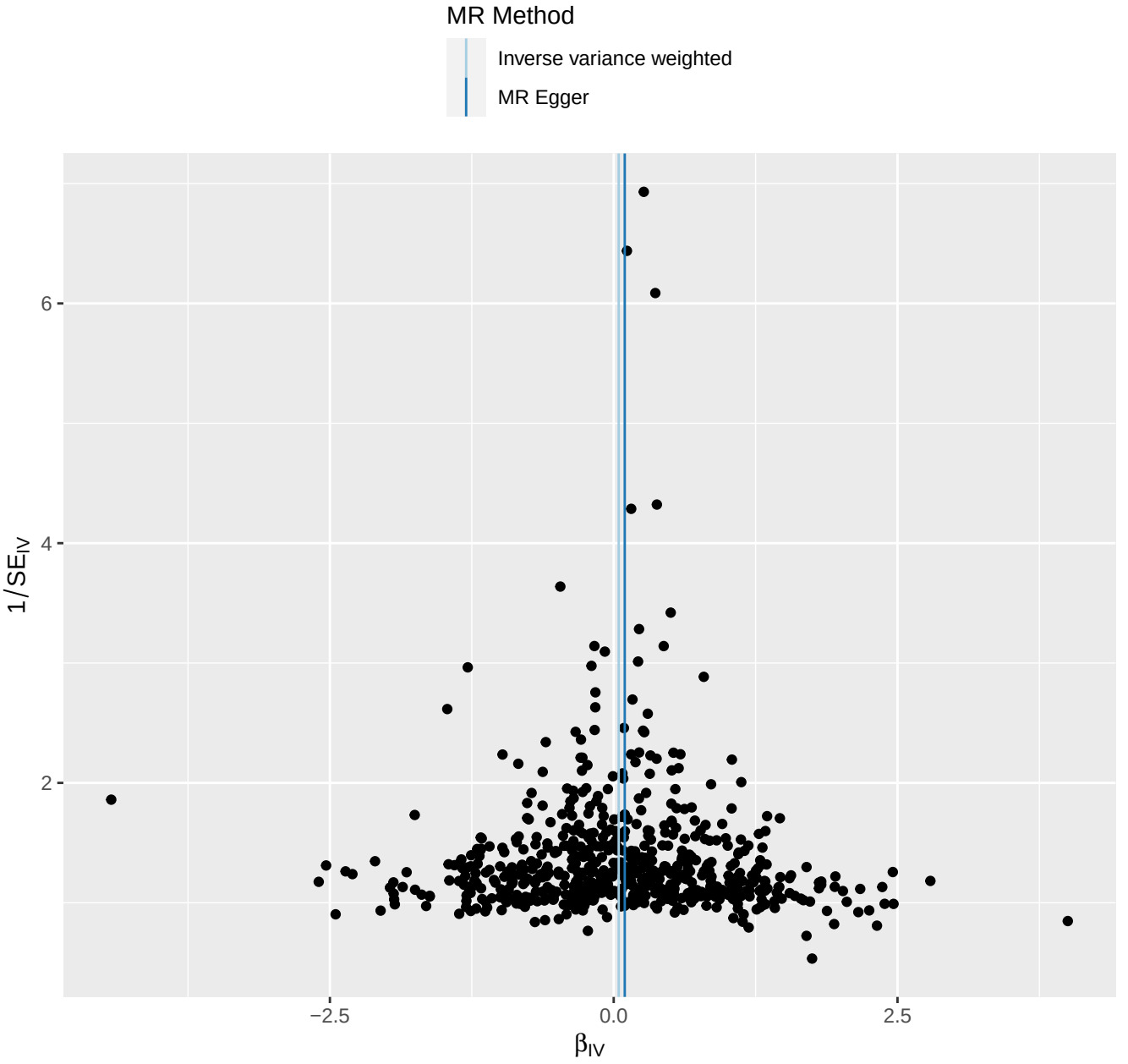
Ratio of bisallylic groups to double bonds



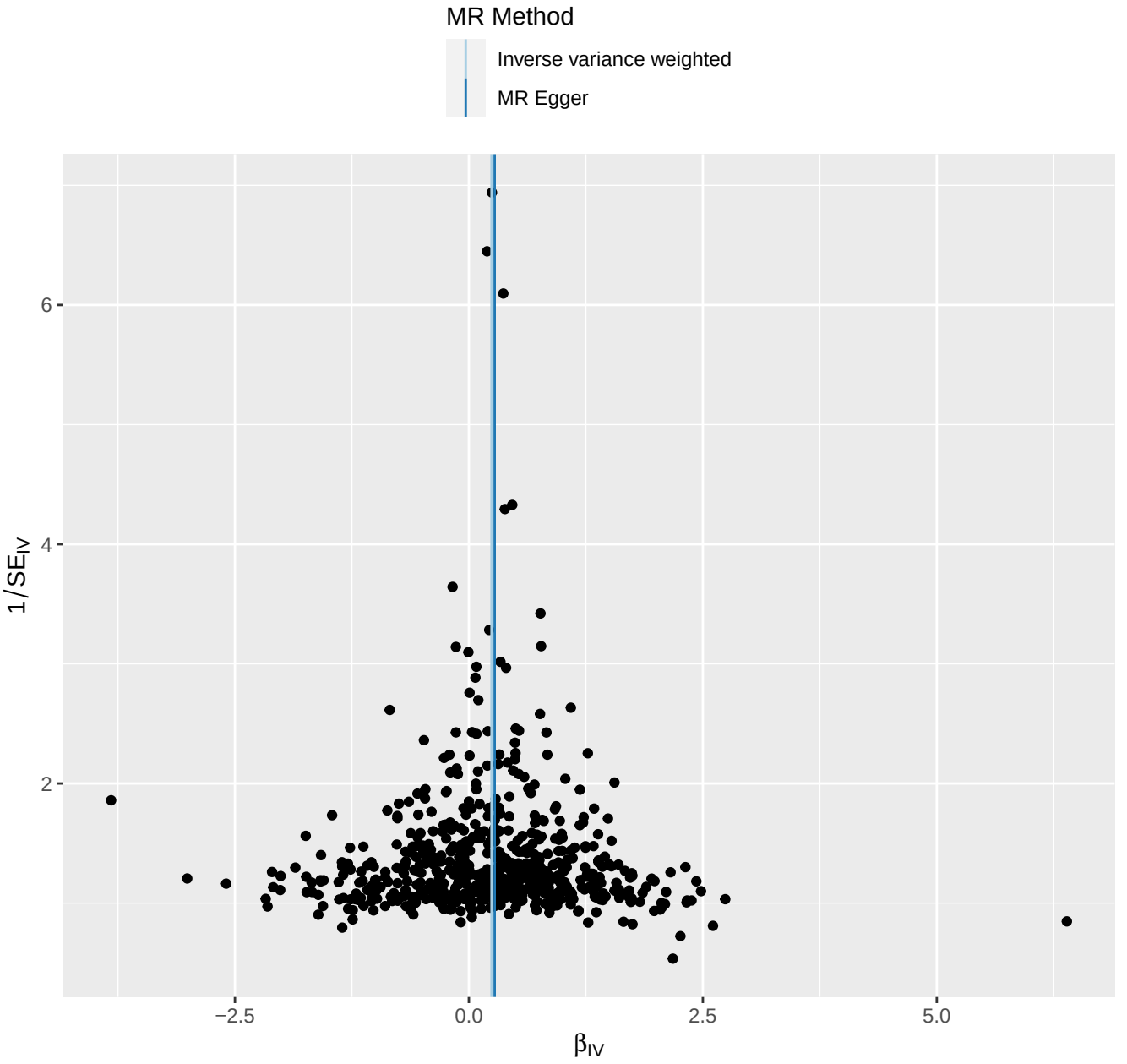
Ratio of bisallylic groups to total fatty acids



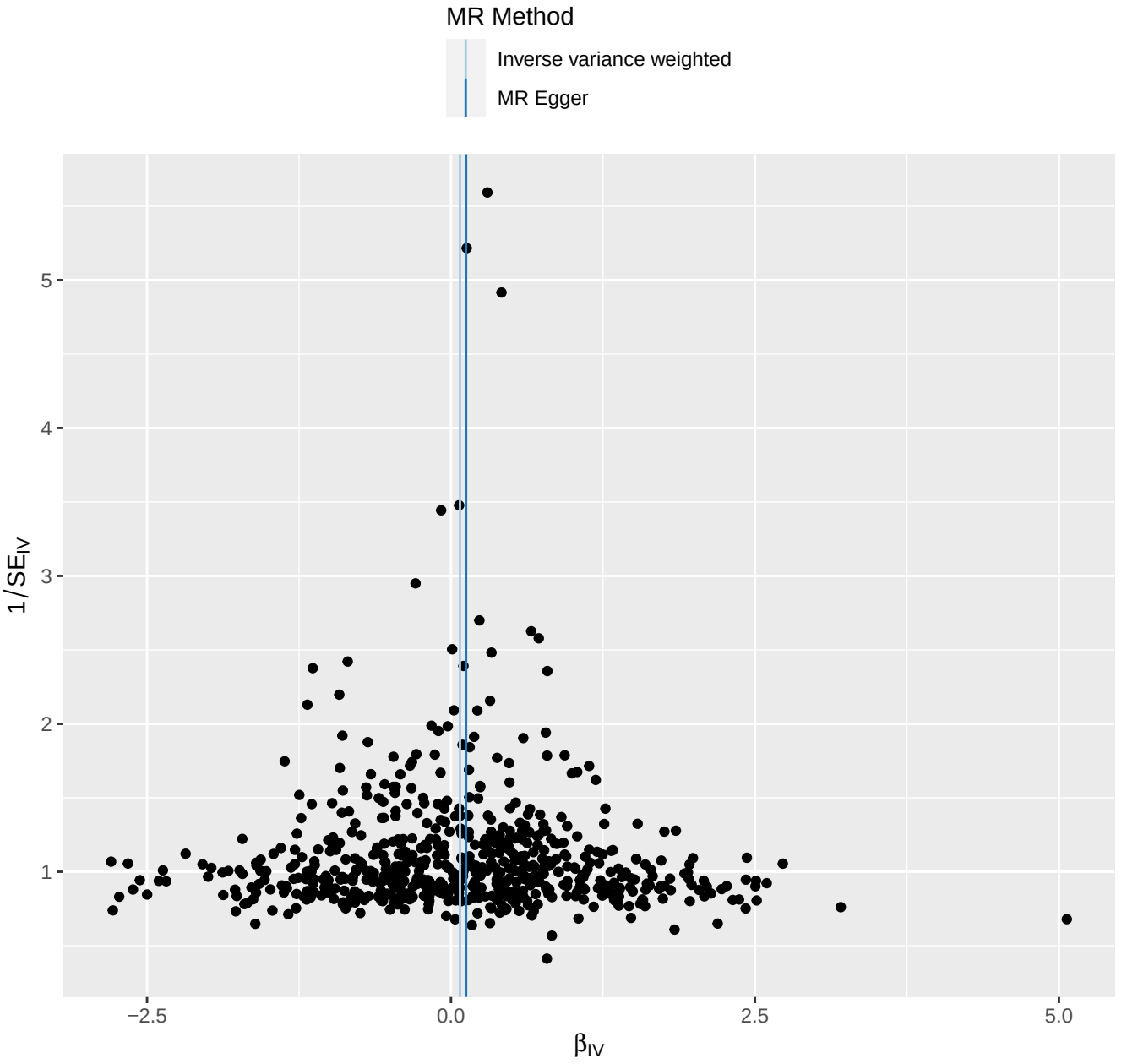
Serum total cholesterol



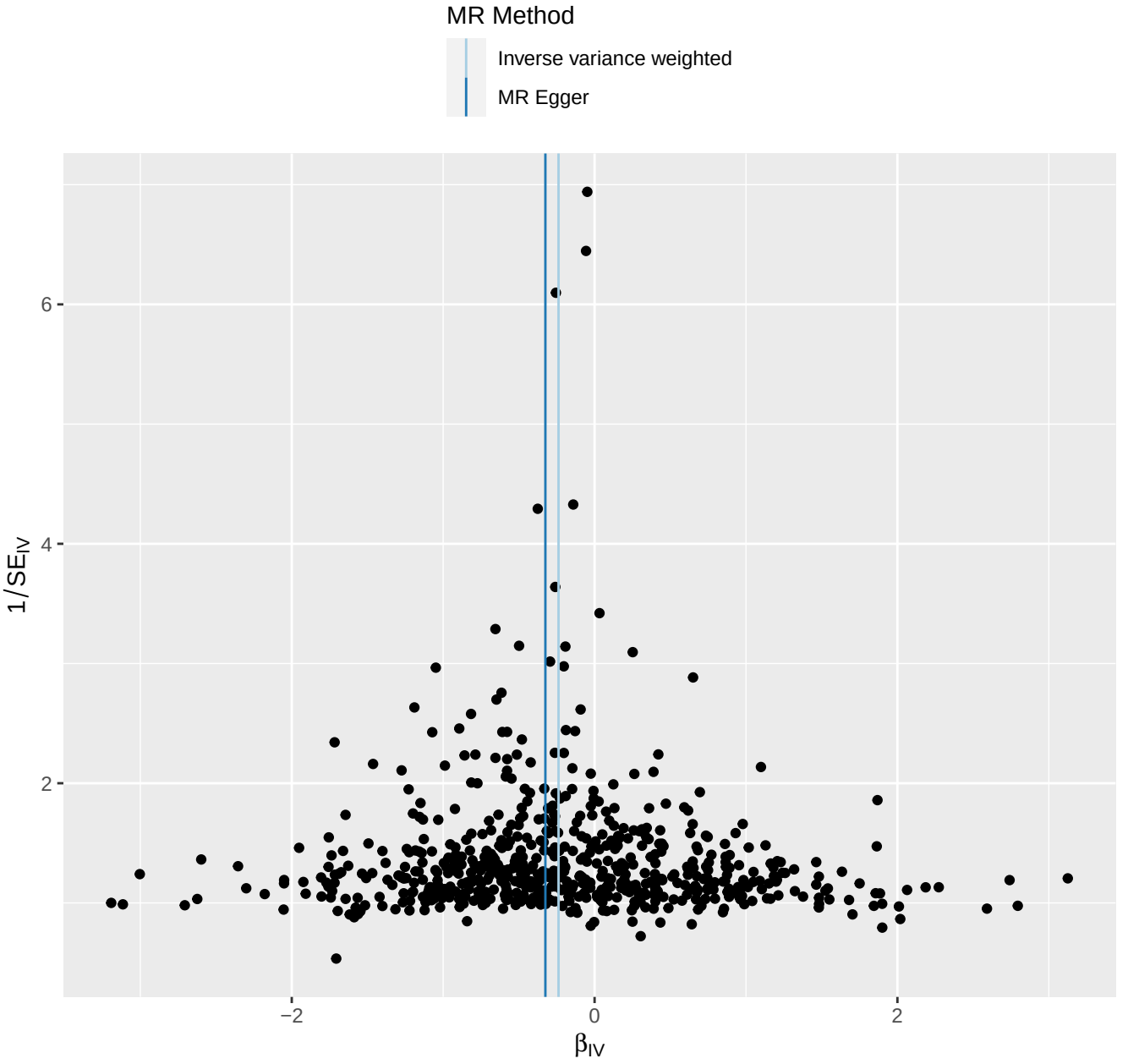
Serum total triglycerides



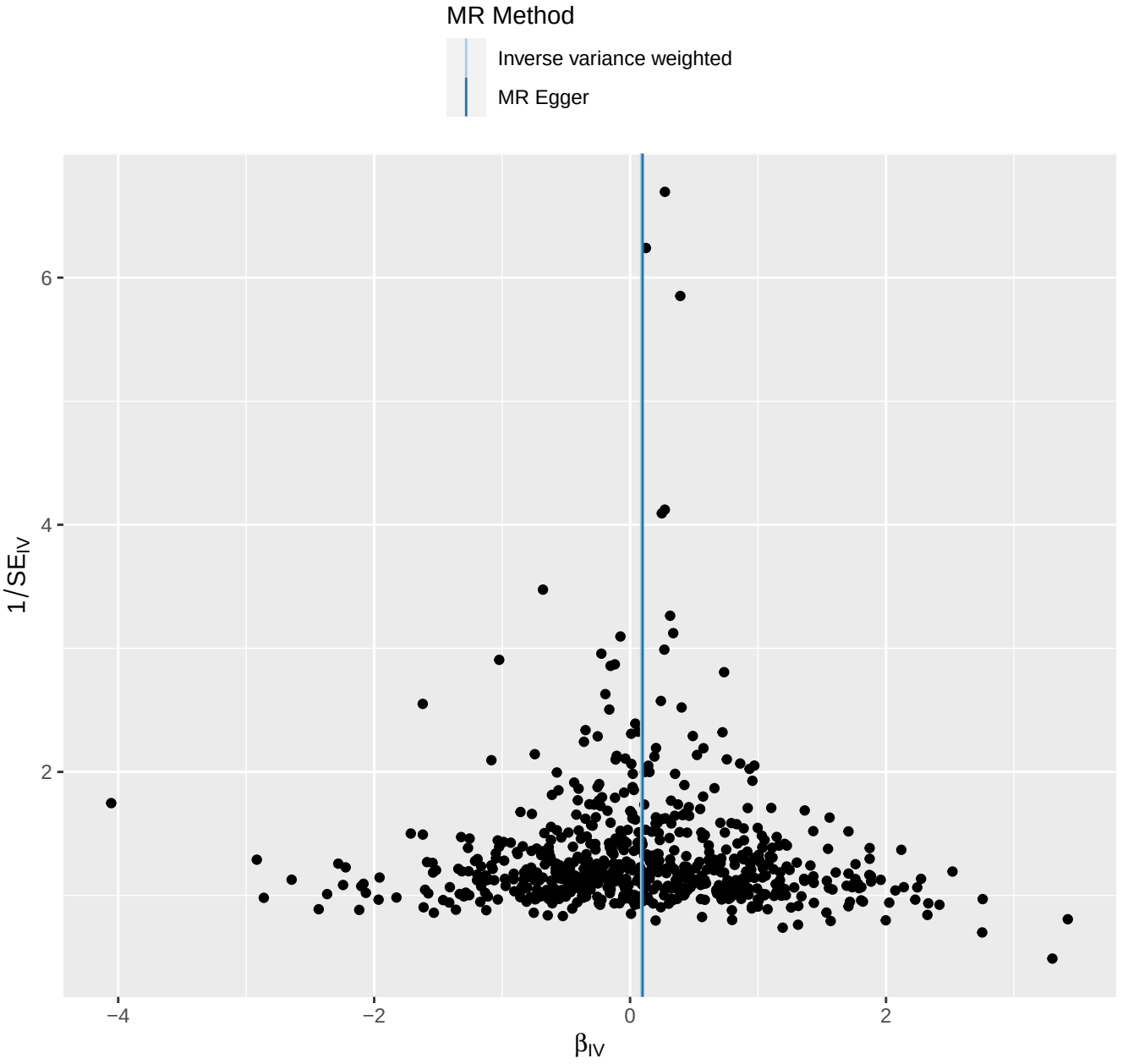
Sphingomyelins



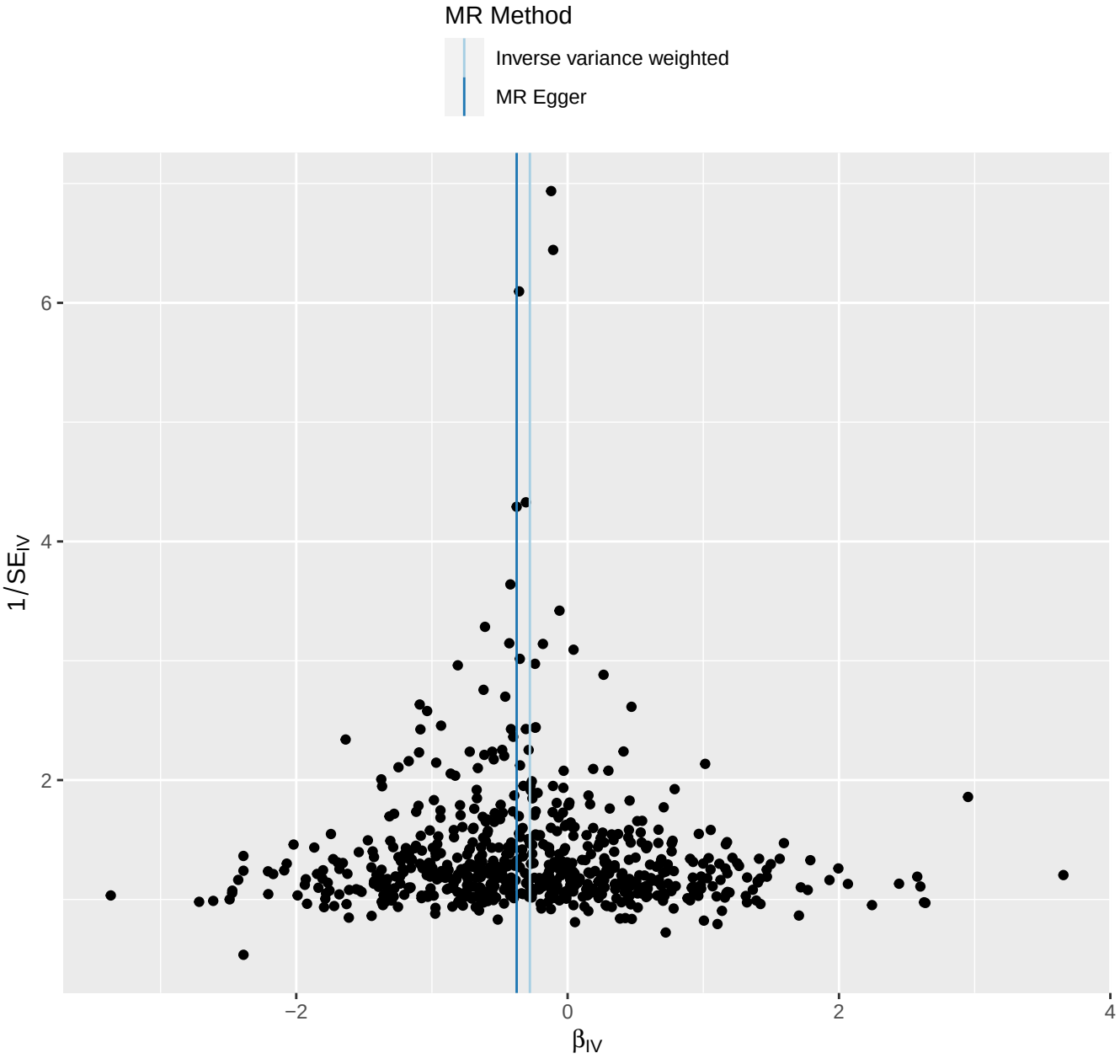
Total cholesterol in HDL



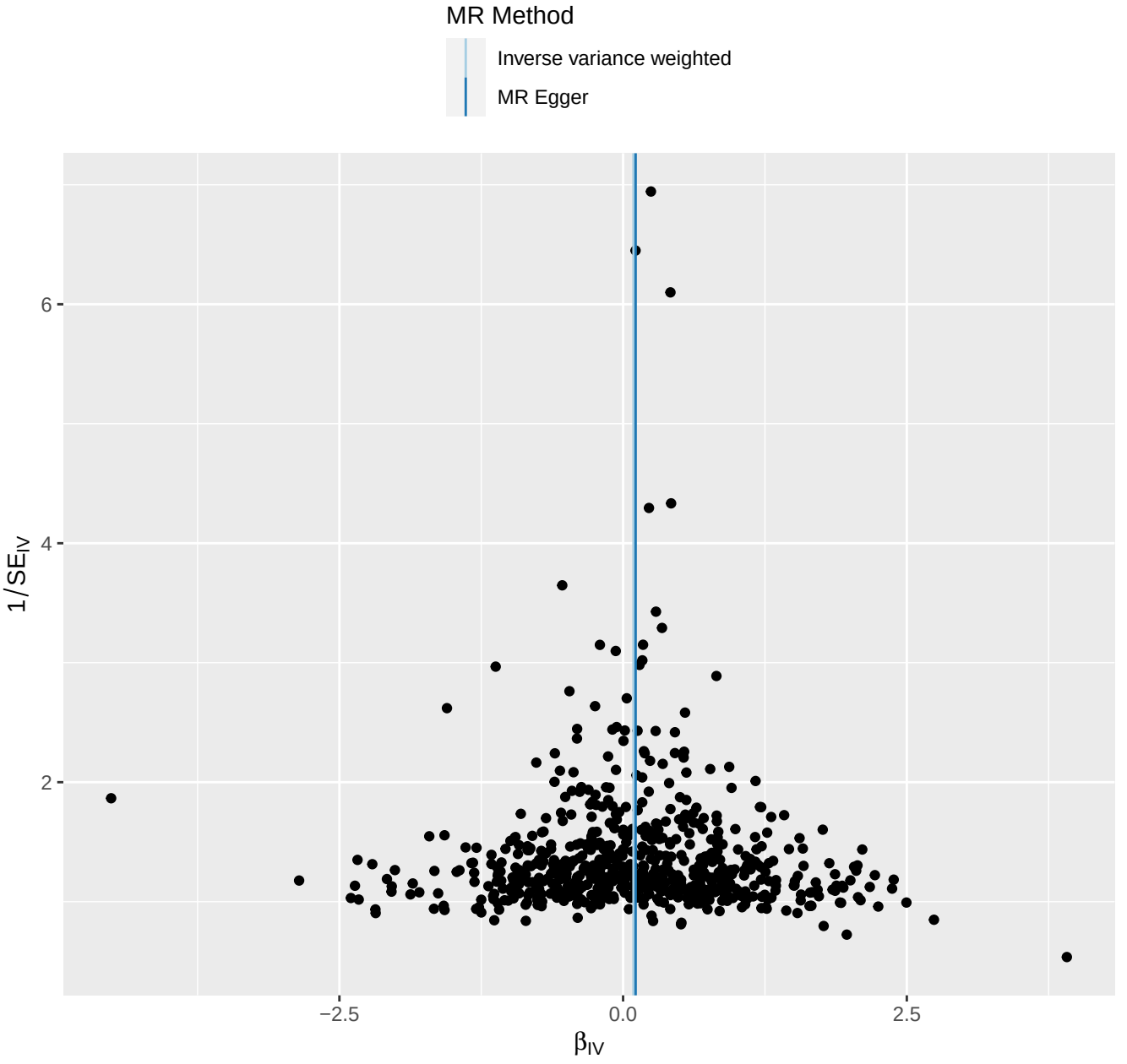
Total cholesterol in IDL



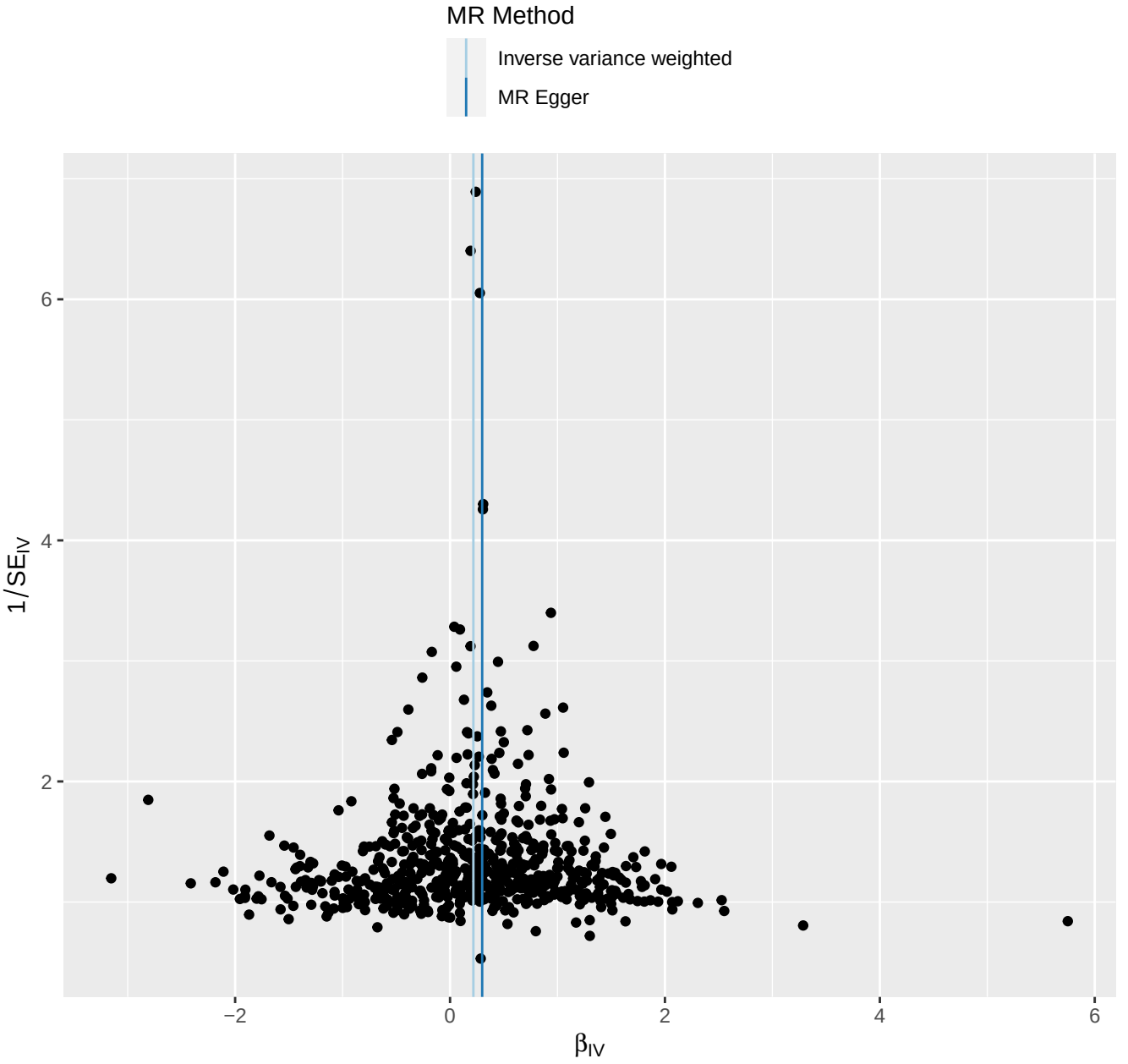
Total cholesterol in large HDL



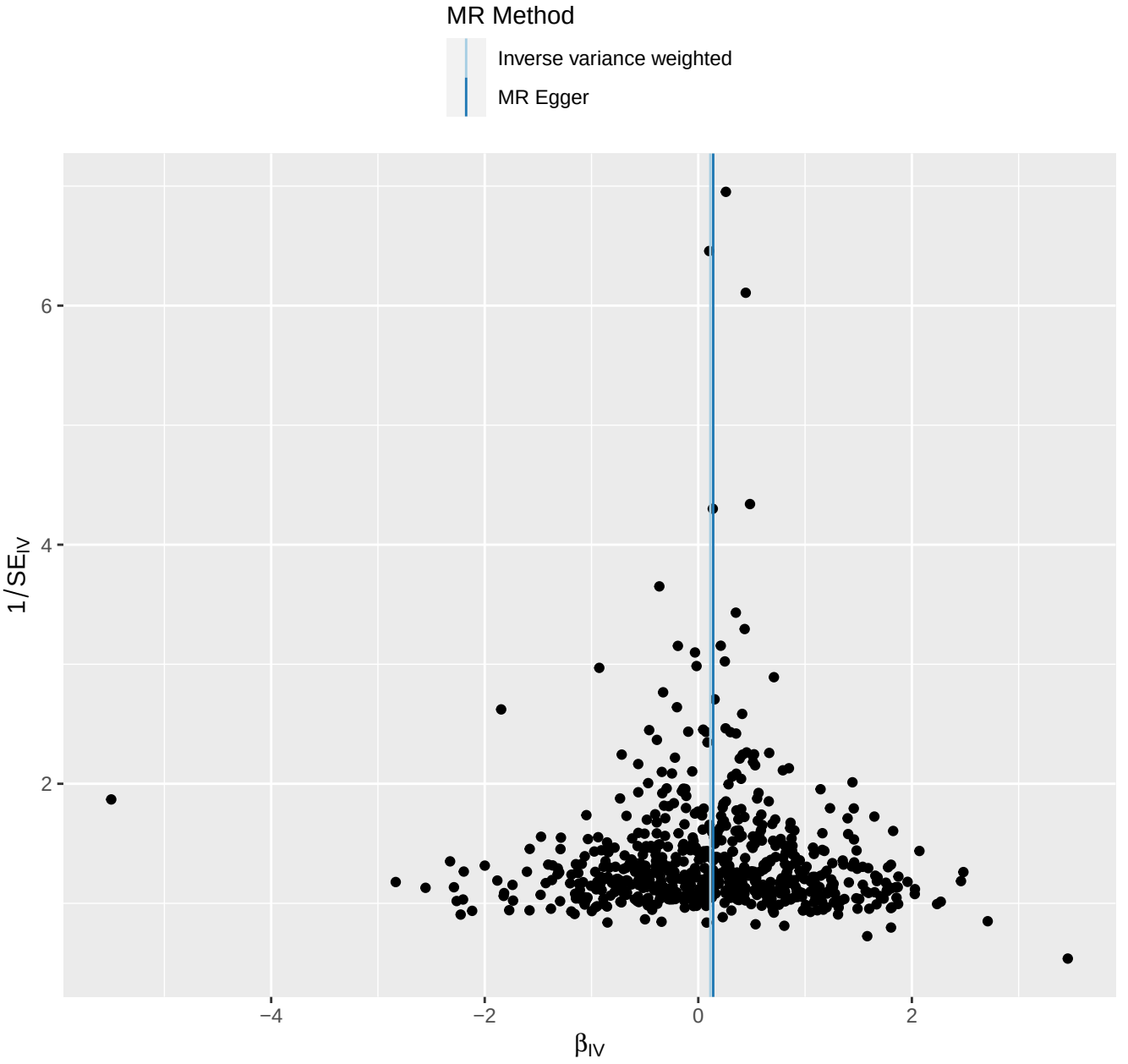
Total cholesterol in large LDL



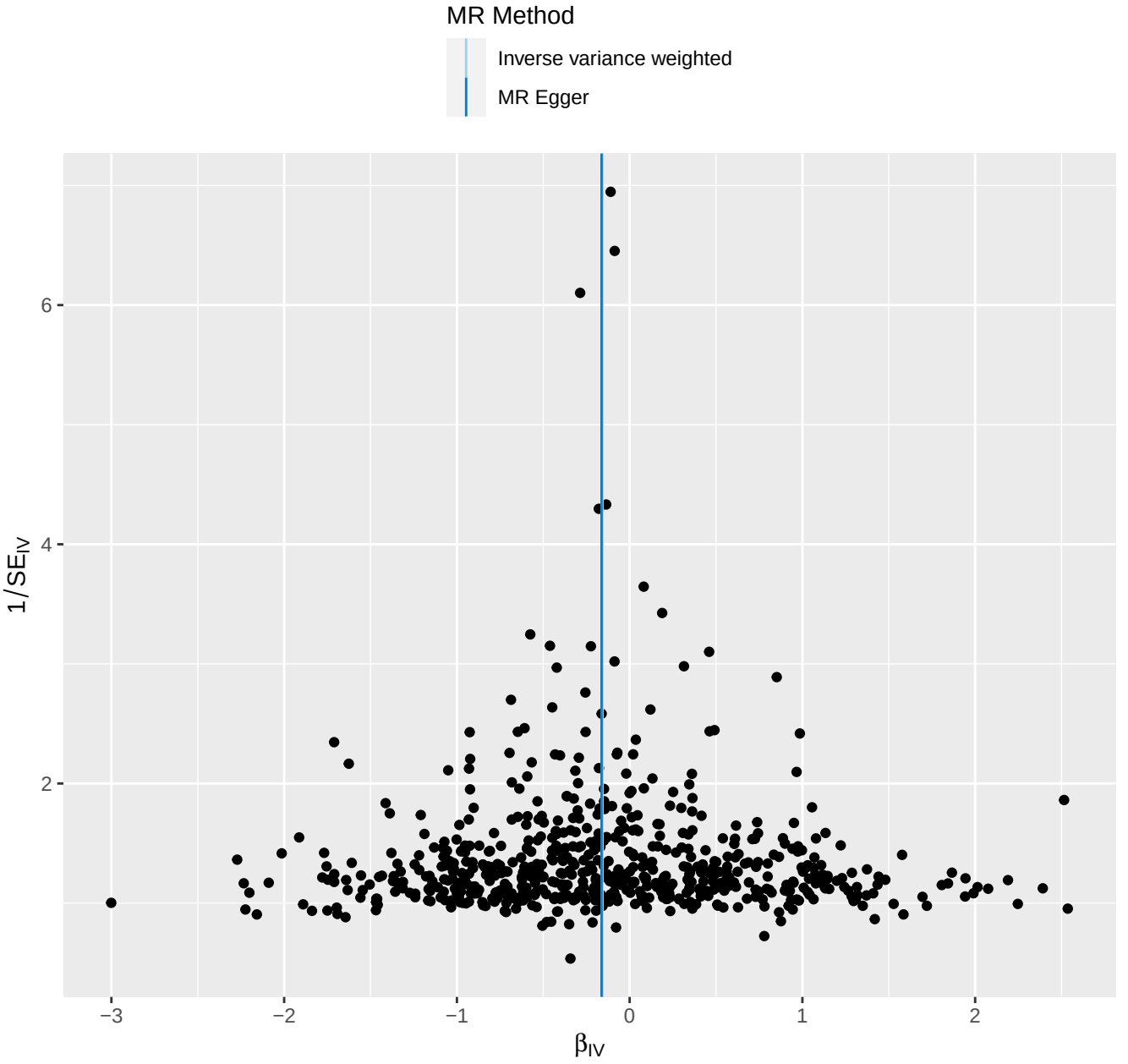
Total cholesterol in large VLDL



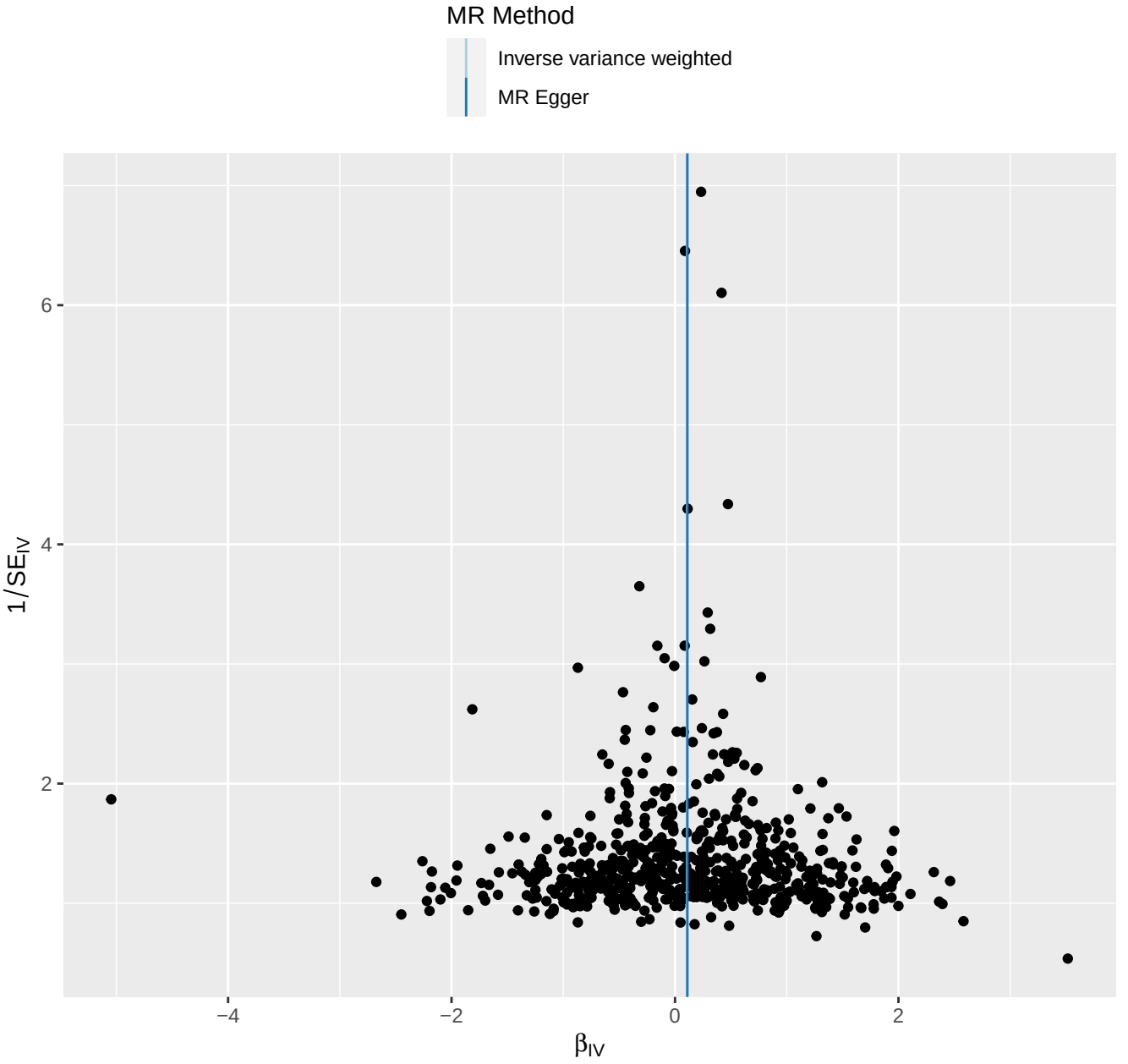
Total cholesterol in LDL



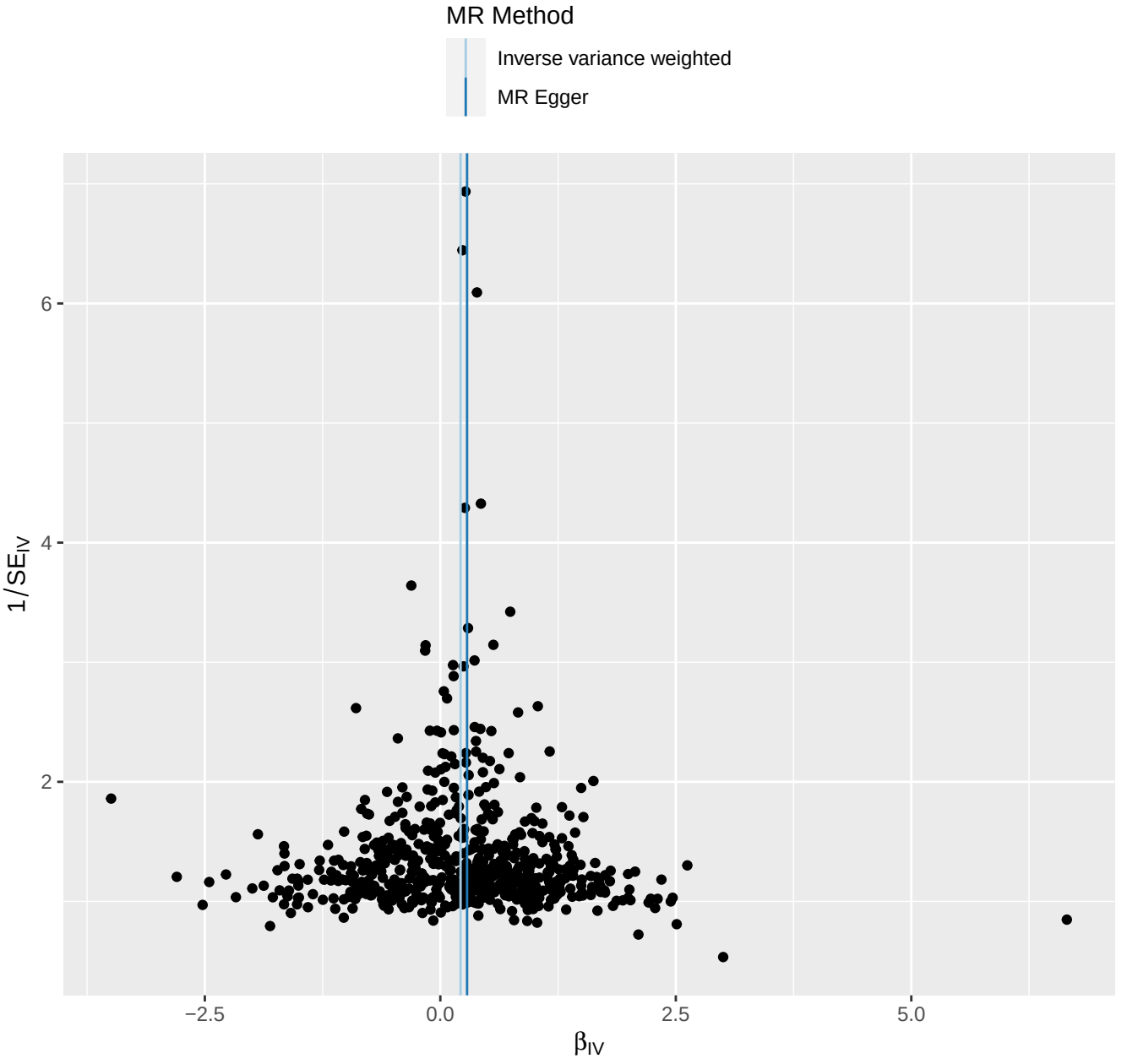
Total cholesterol in medium HDL



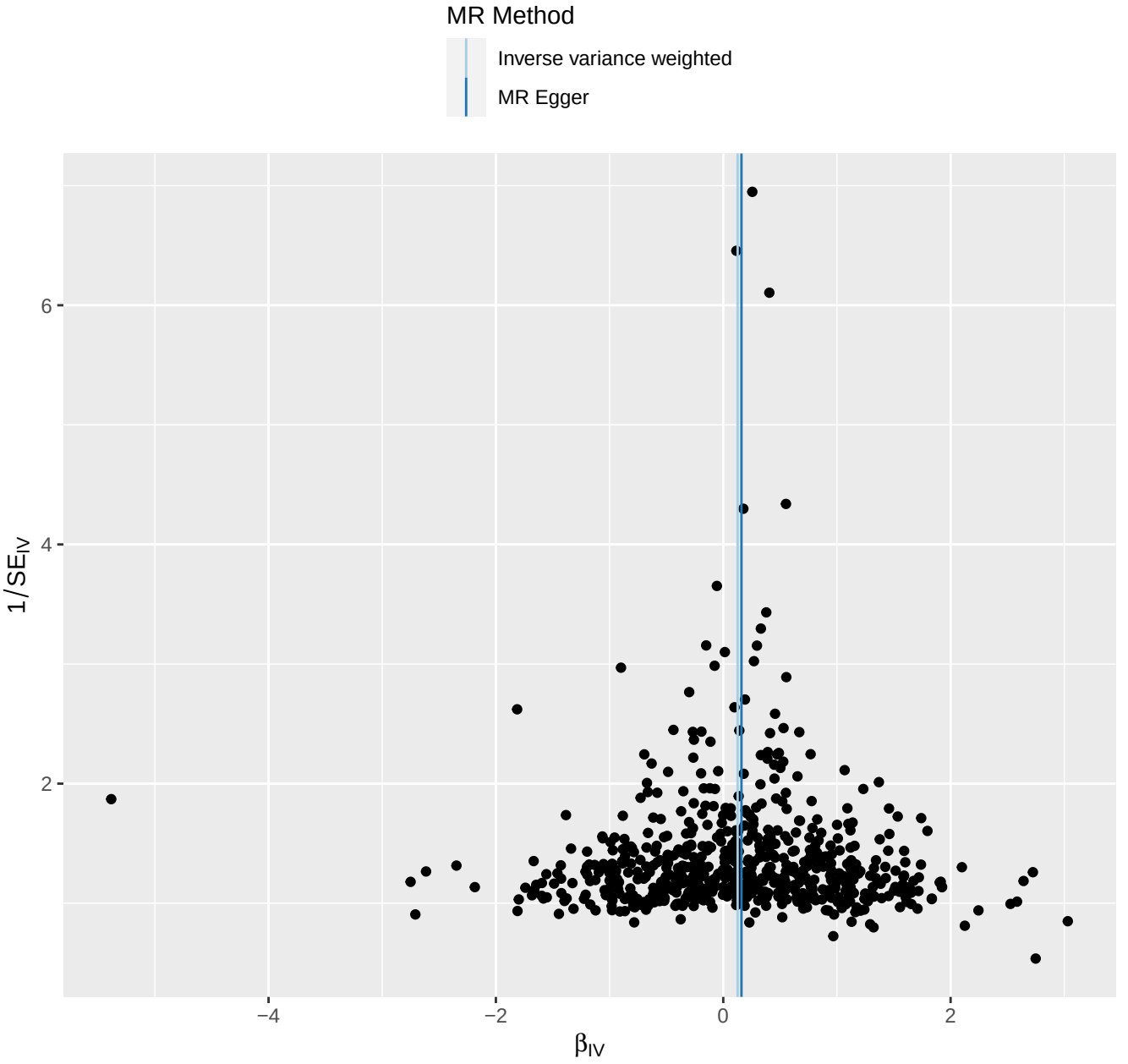
Total cholesterol in medium LDL



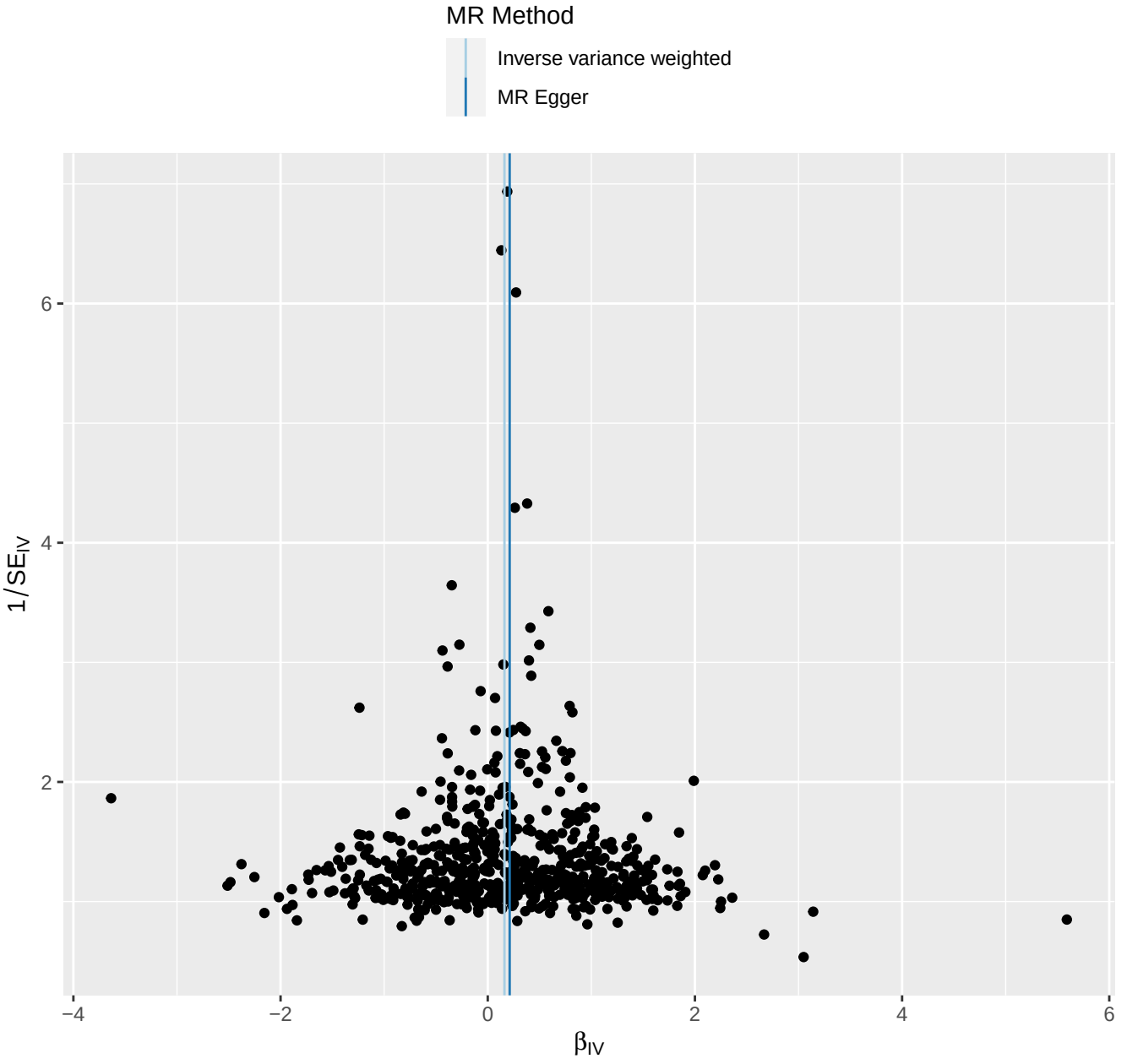
Total cholesterol in medium VLDL



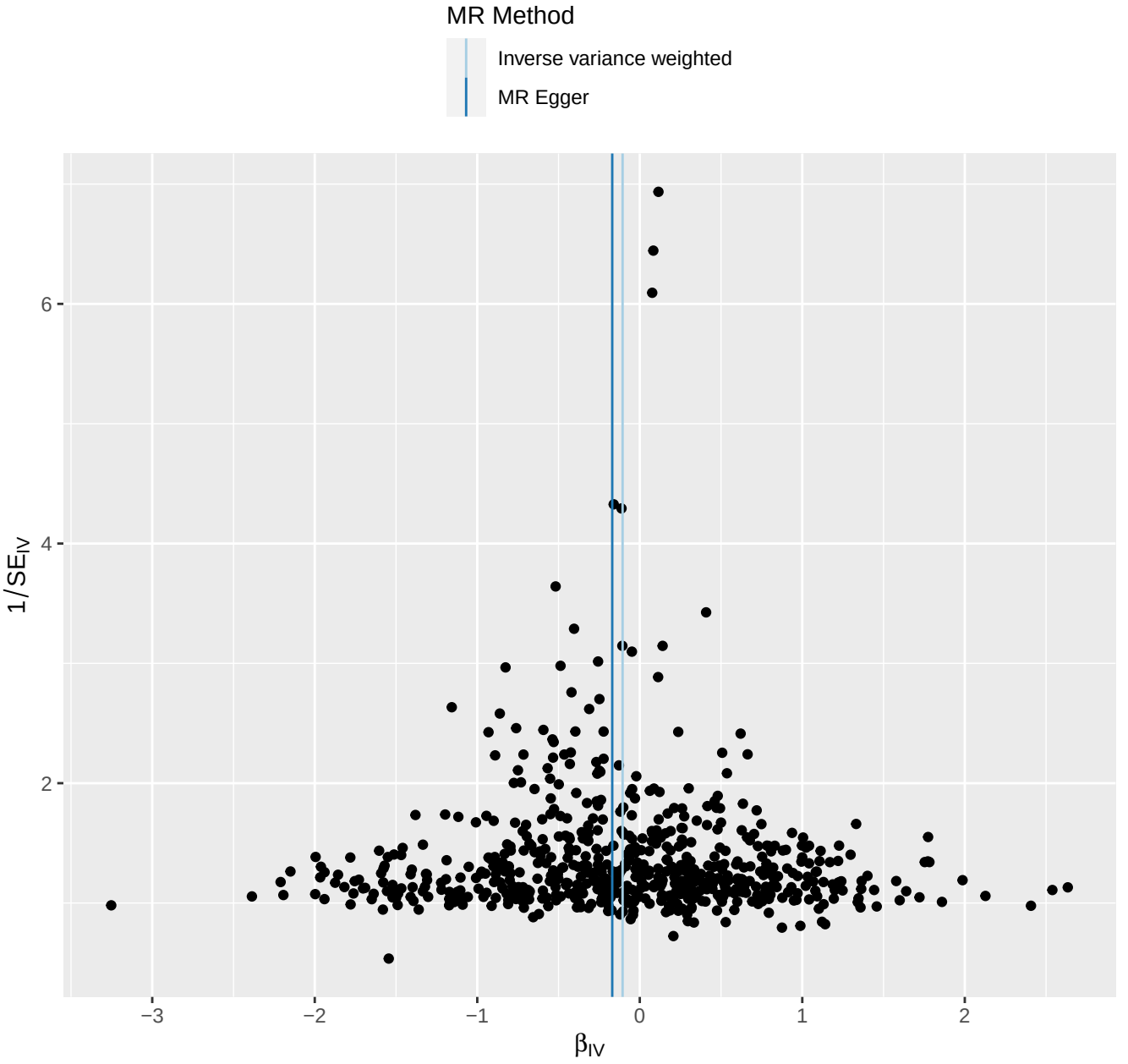
Total cholesterol in small LDL



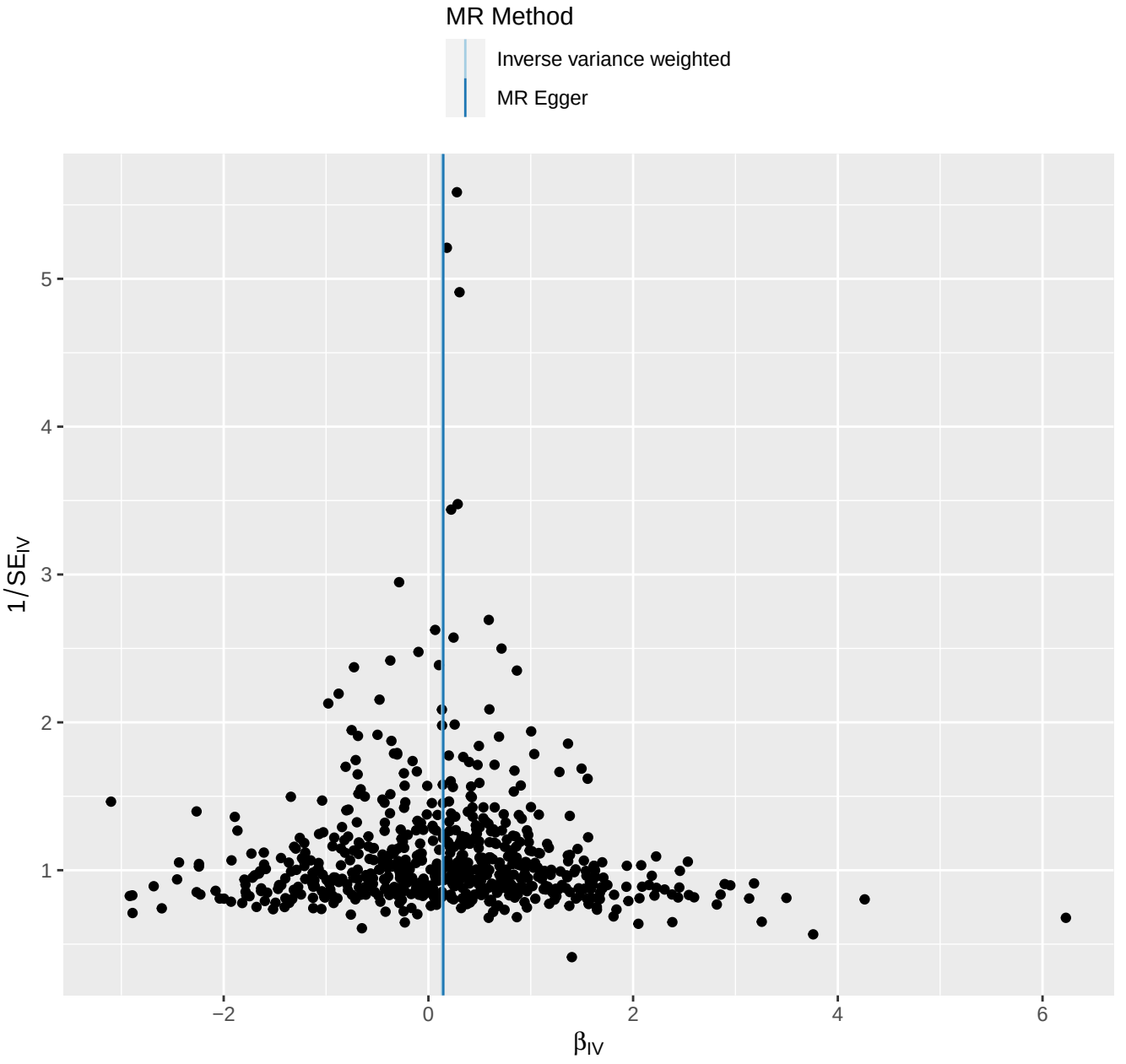
Total cholesterol in small VLDL

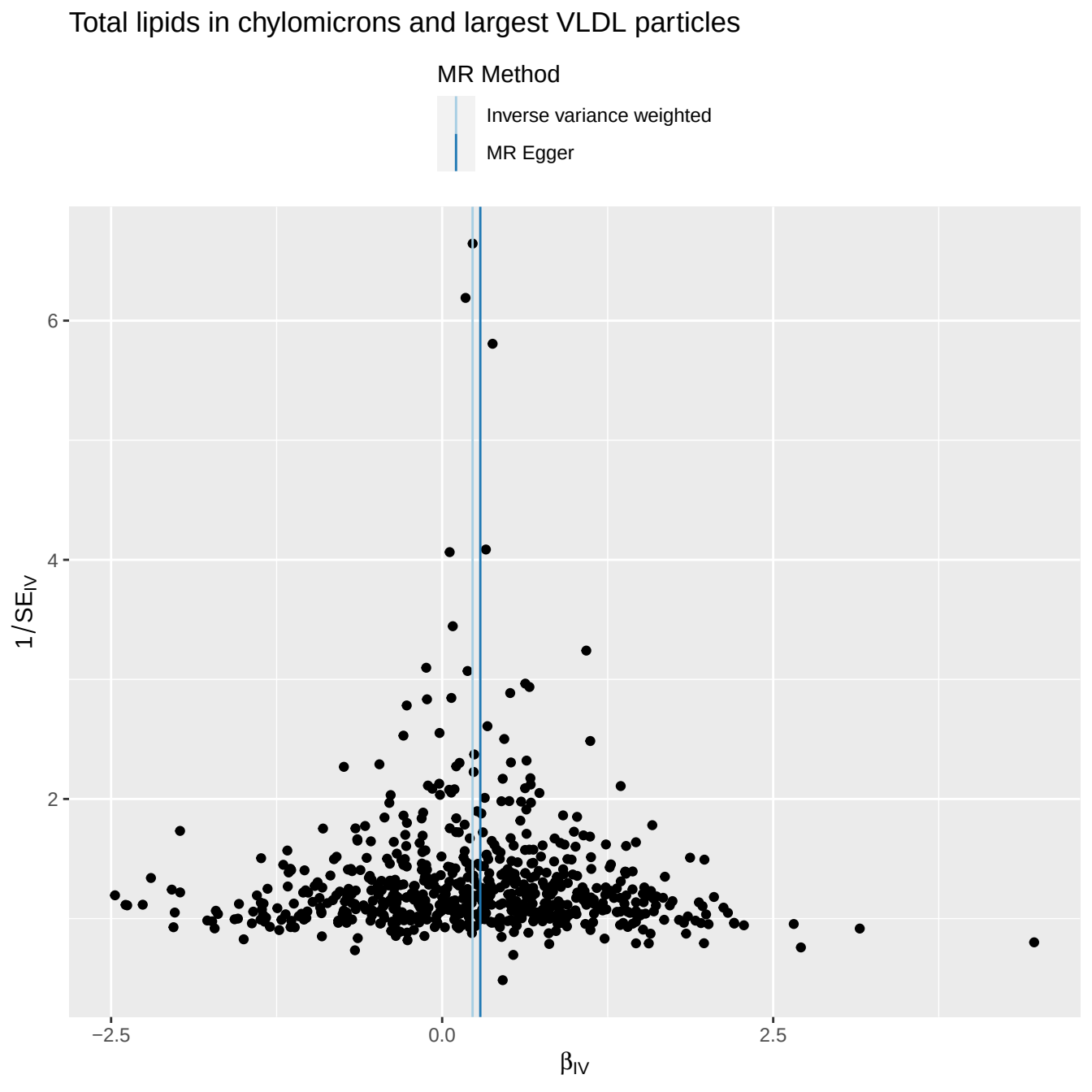


Total cholesterol in very large HDL

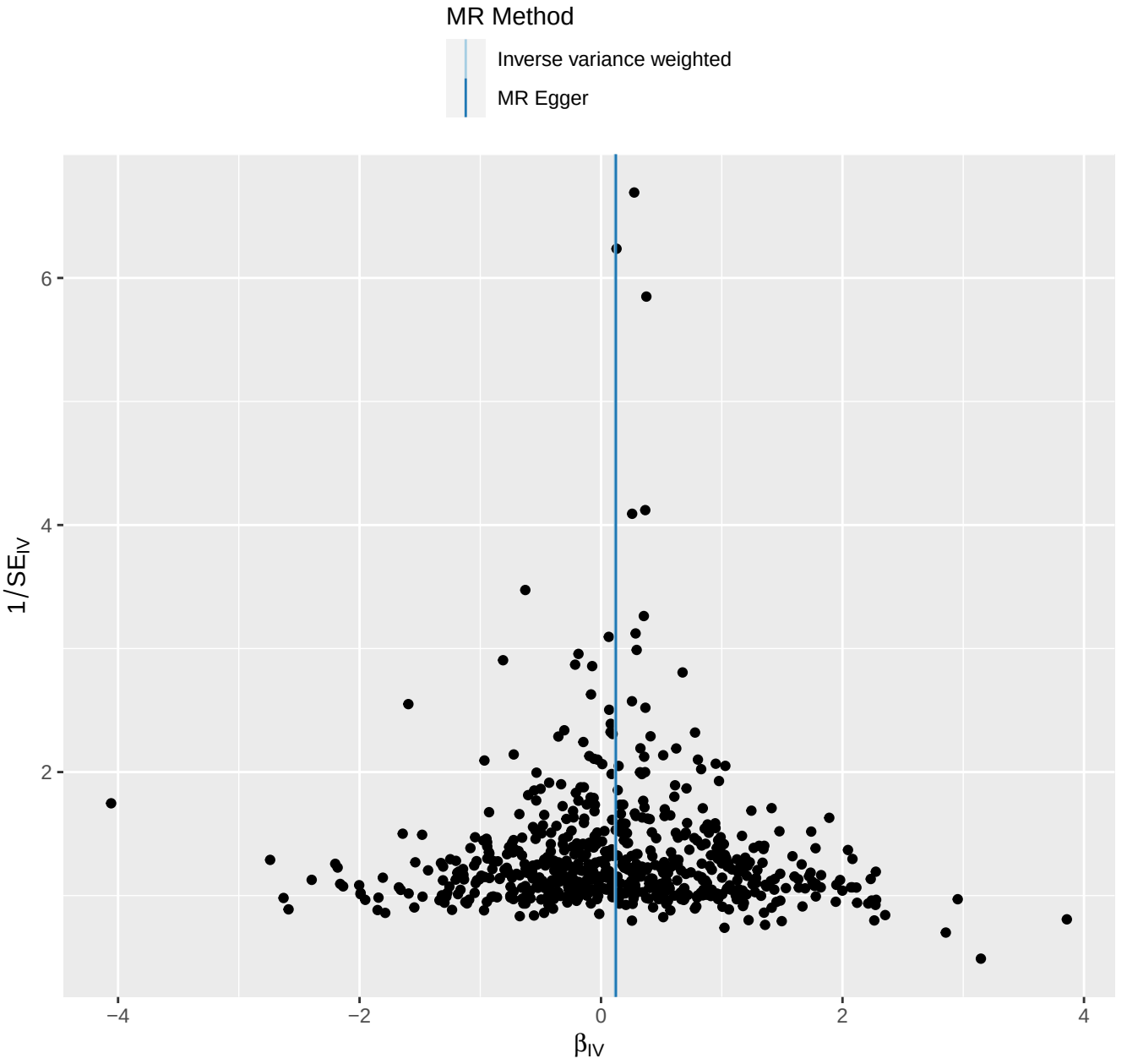


Total fatty acids

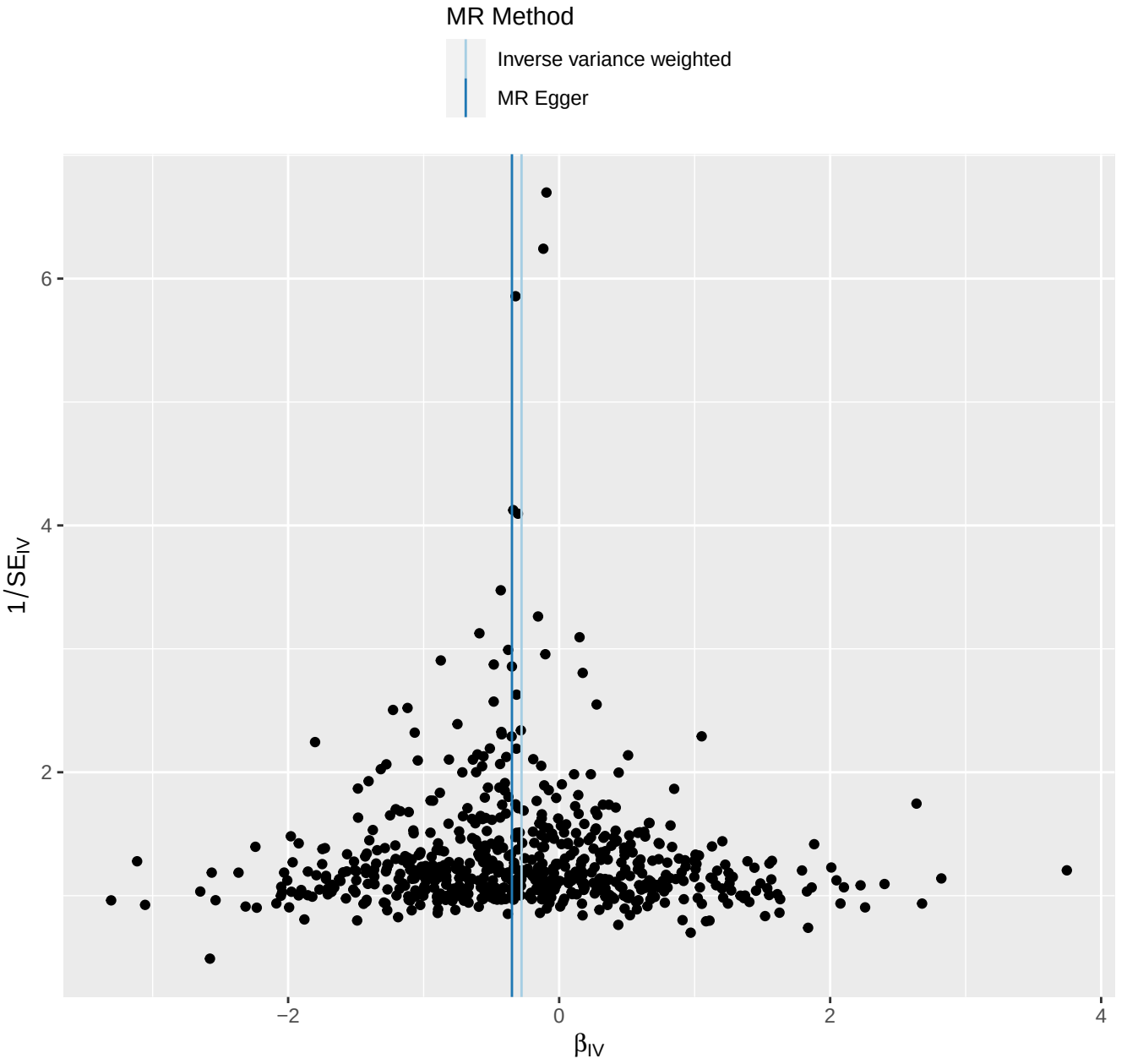



Total lipids in chylomicrons and largest VLDL particles
MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2.5
0.0
2.5
β_IV

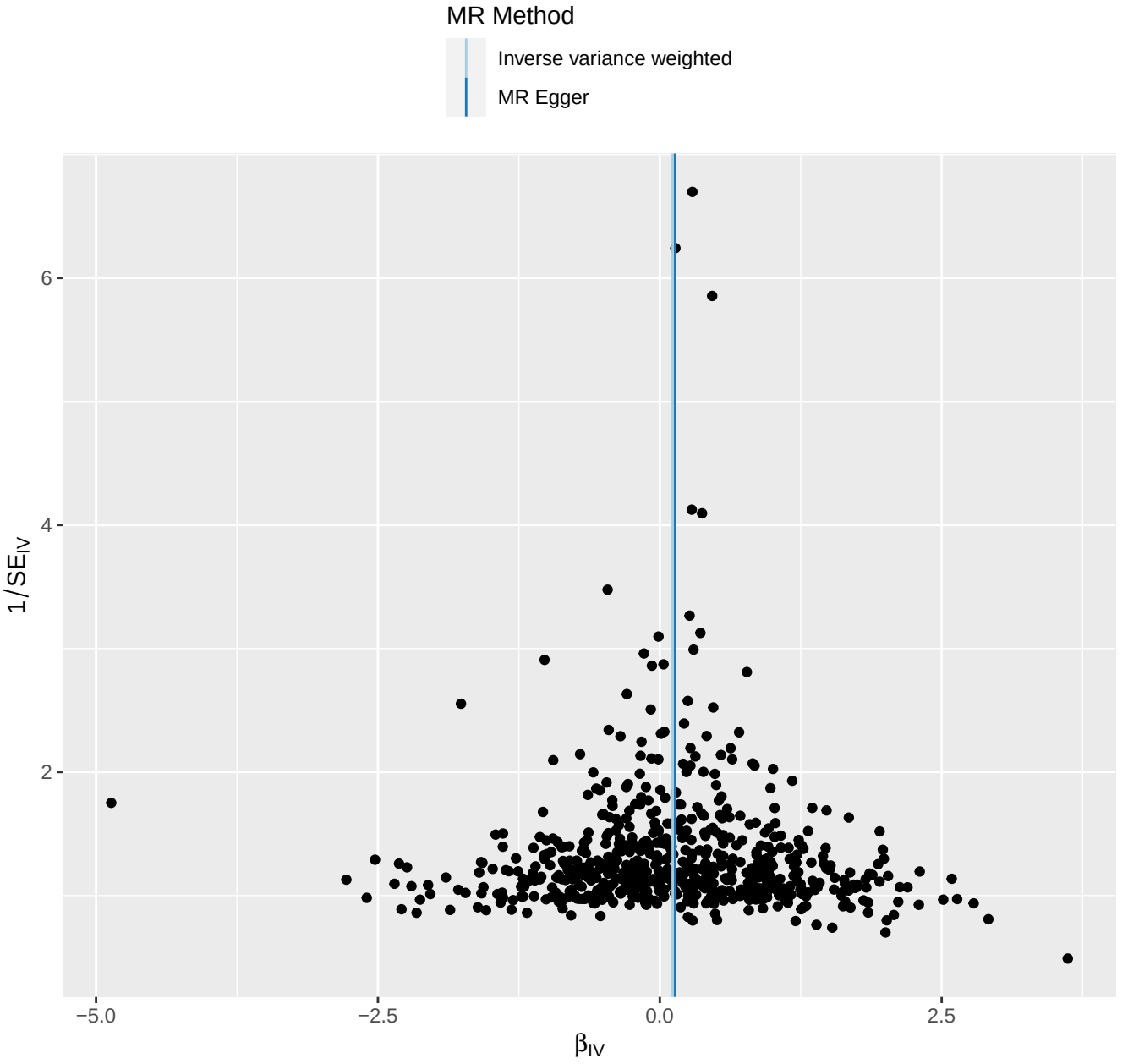
Total lipids in IDL



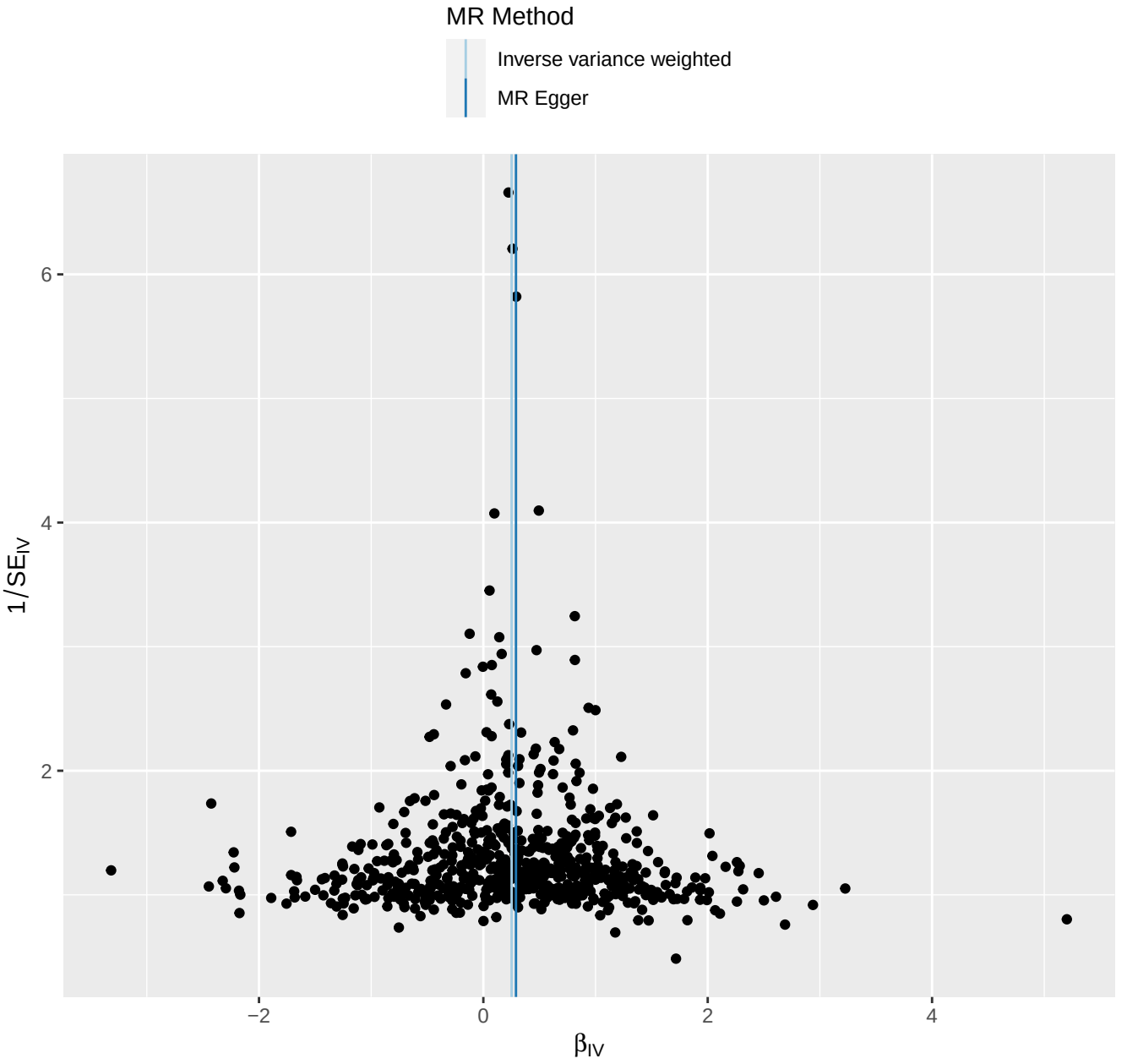
Total lipids in large HDL



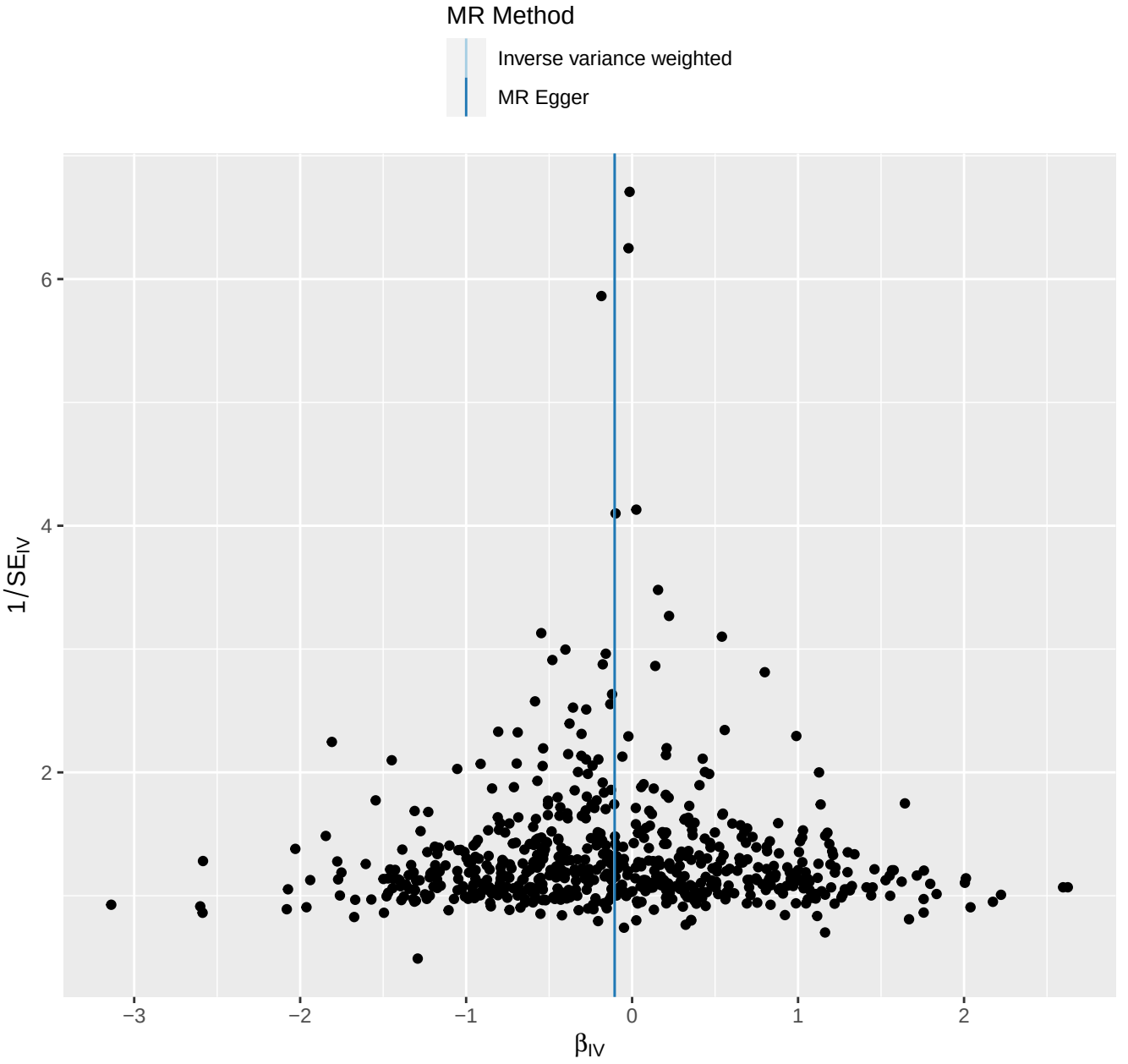
Total lipids in large LDL



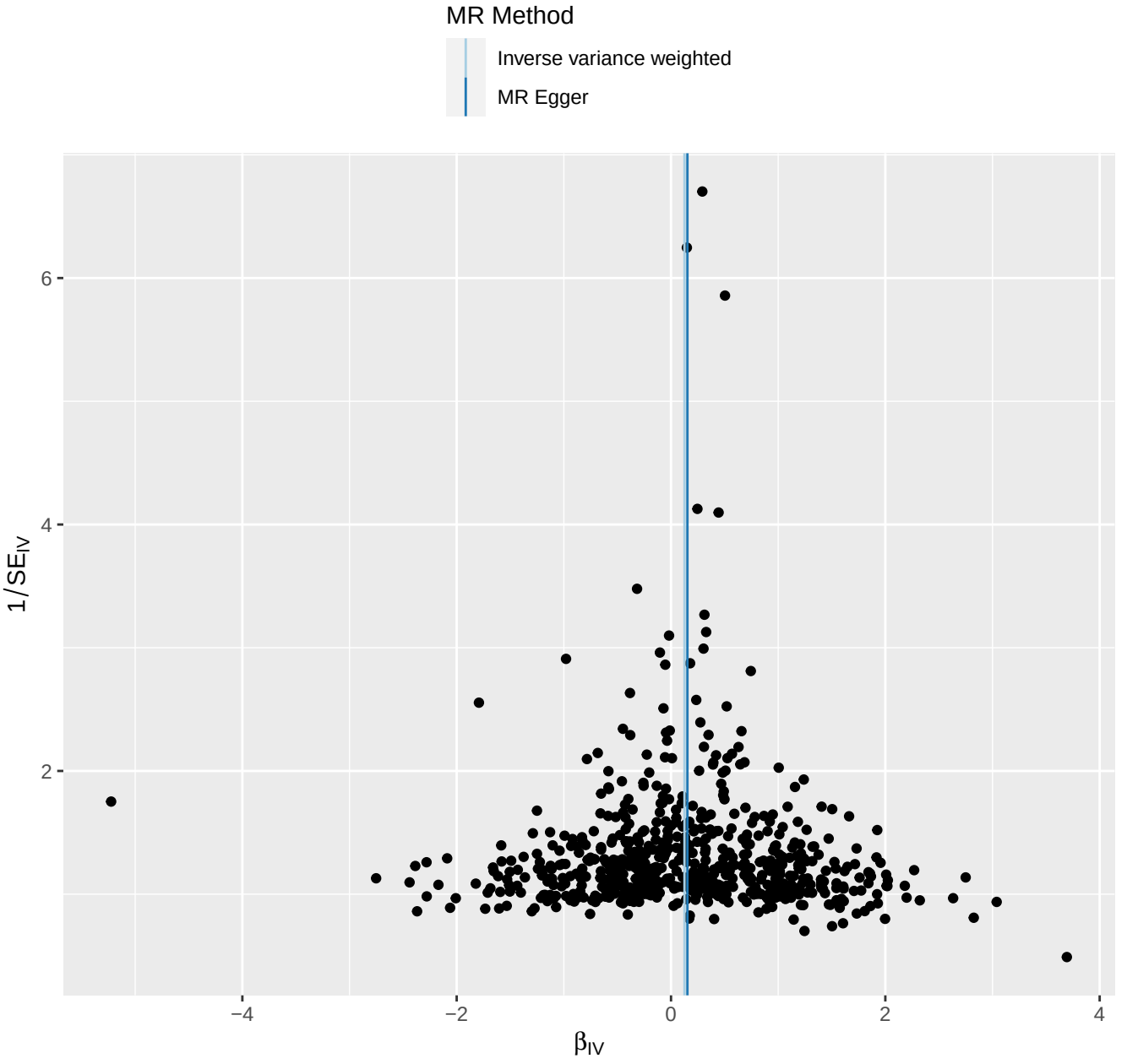
Total lipids in large VLDL



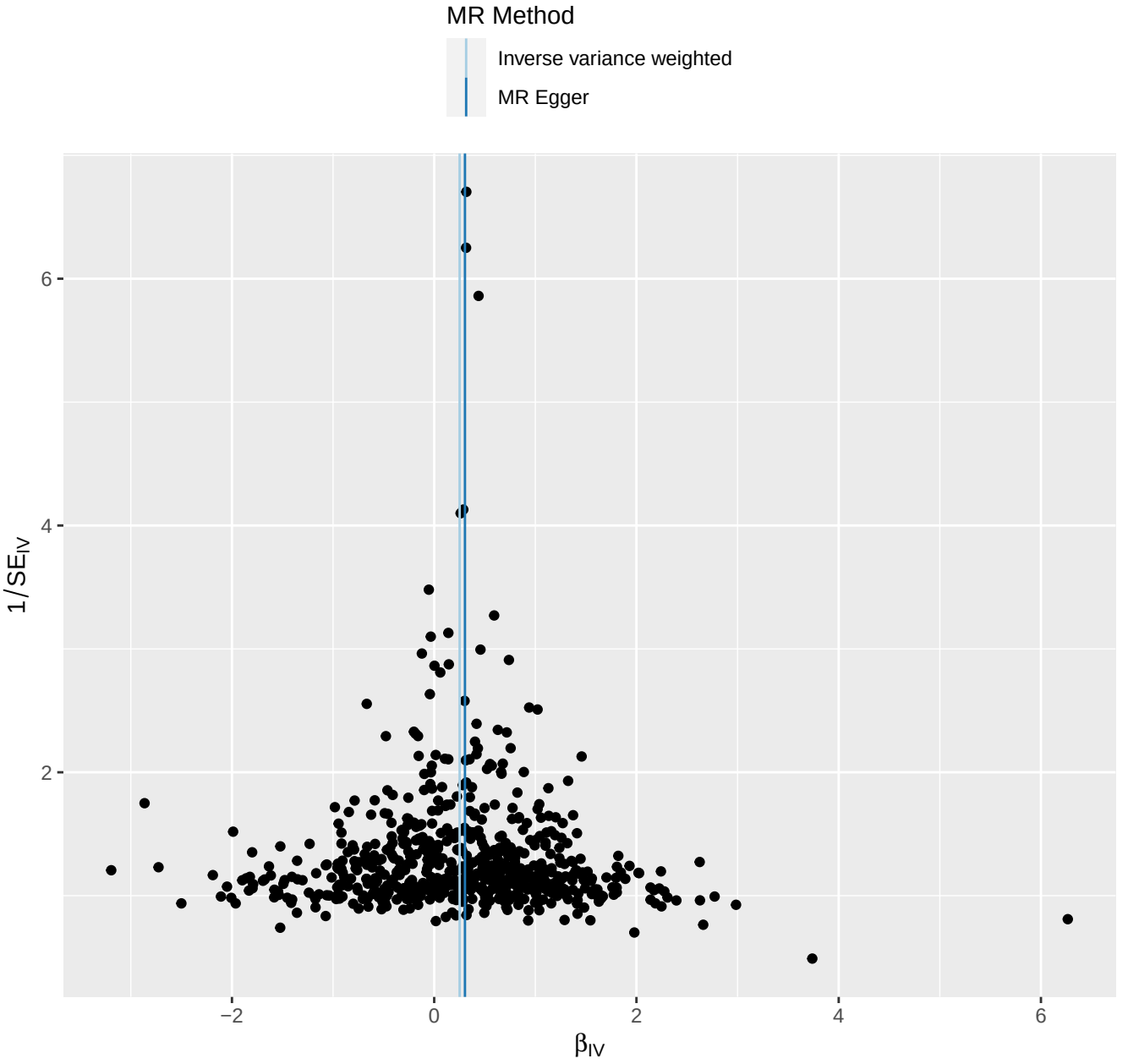
Total lipids in medium HDL



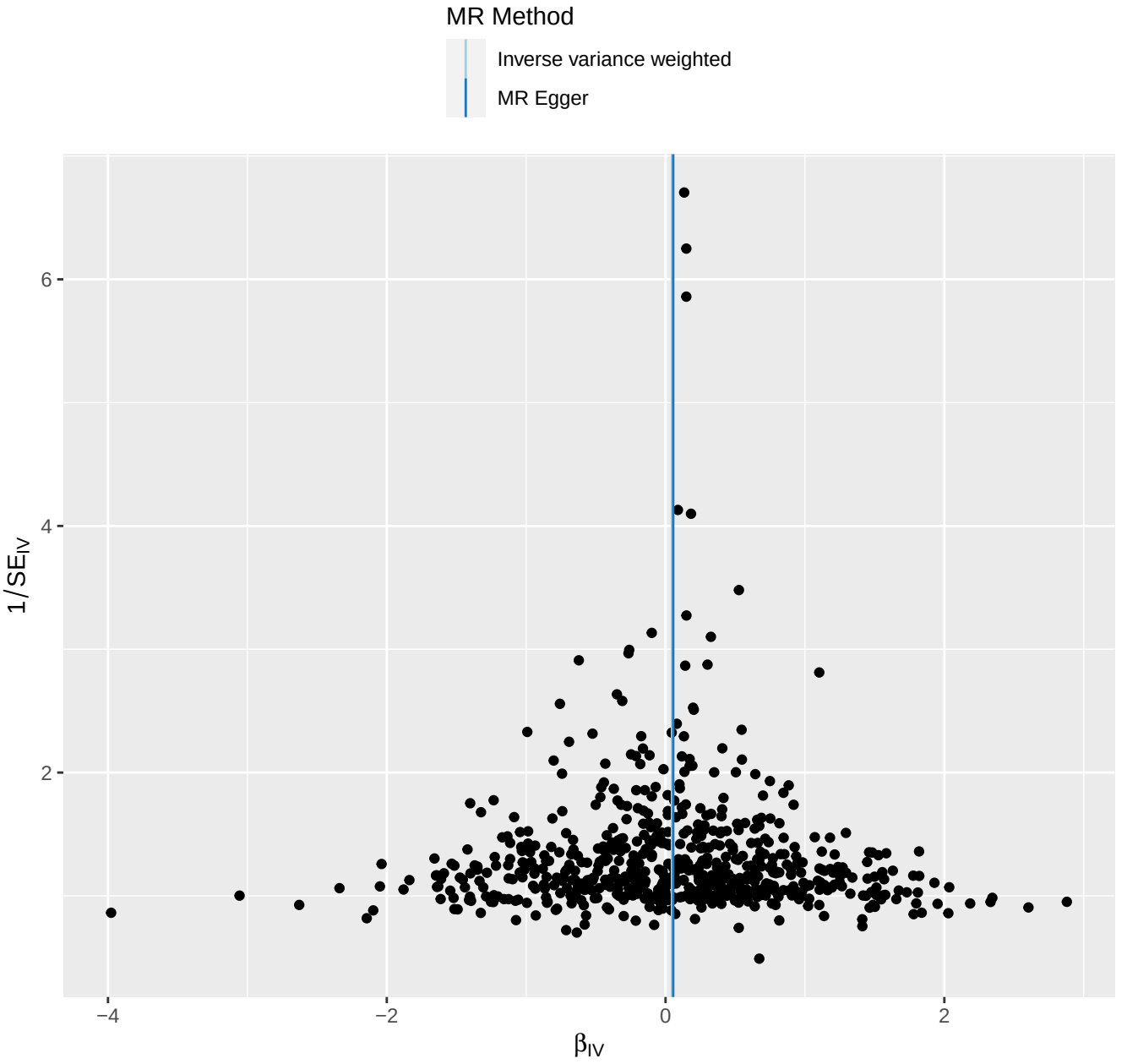
Total lipids in medium LDL



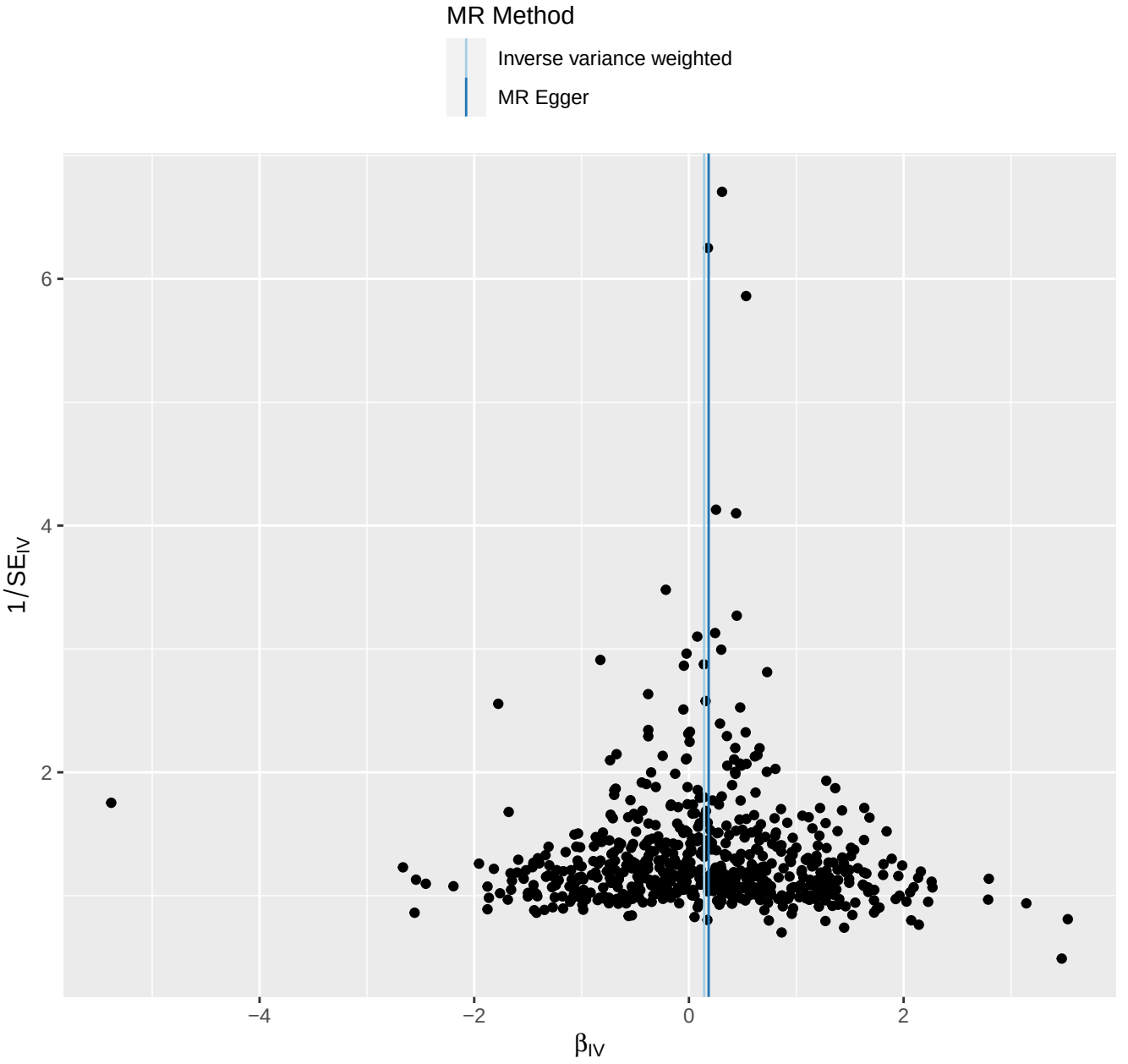
Total lipids in medium VLDL



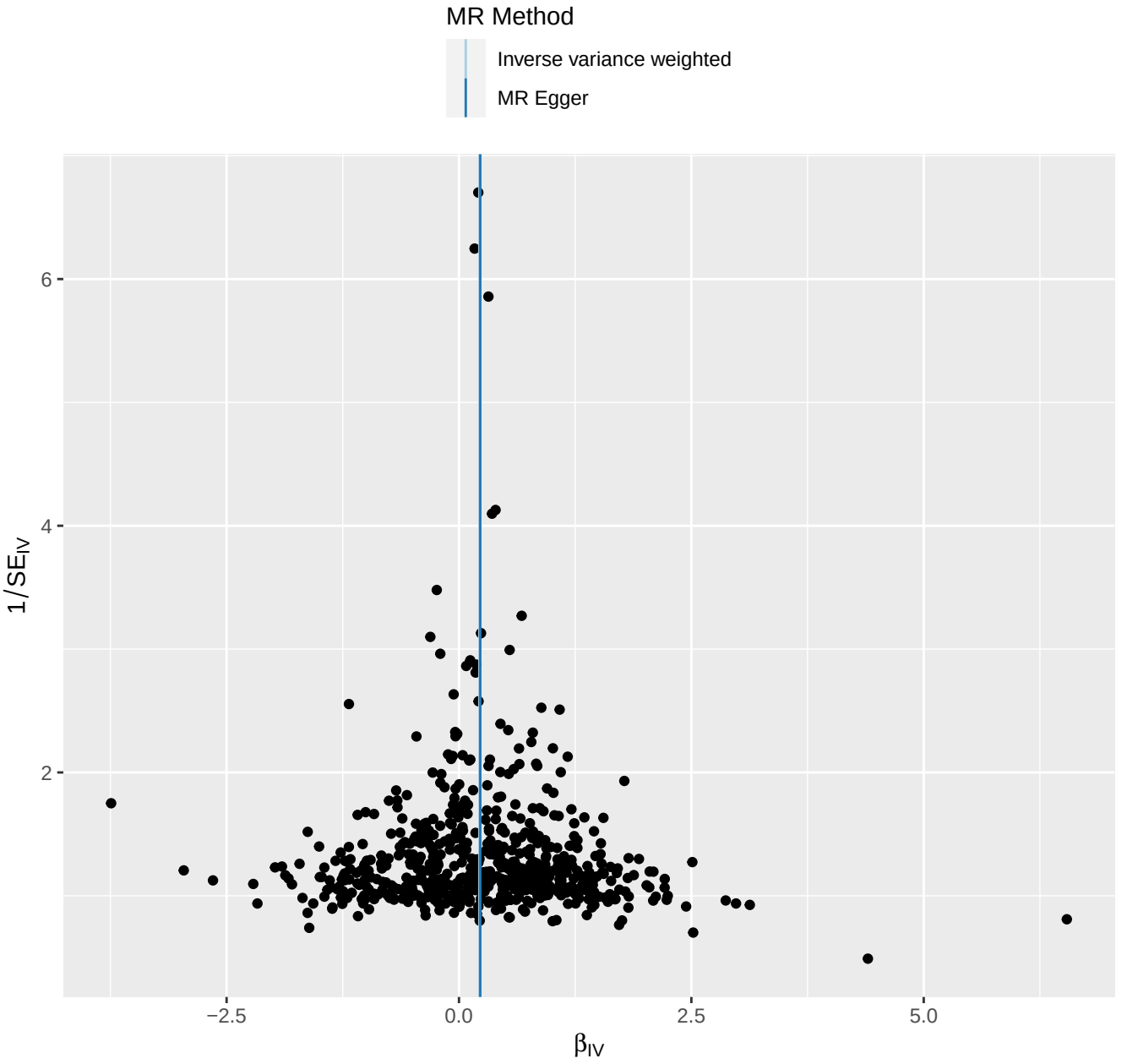
Total lipids in small HDL



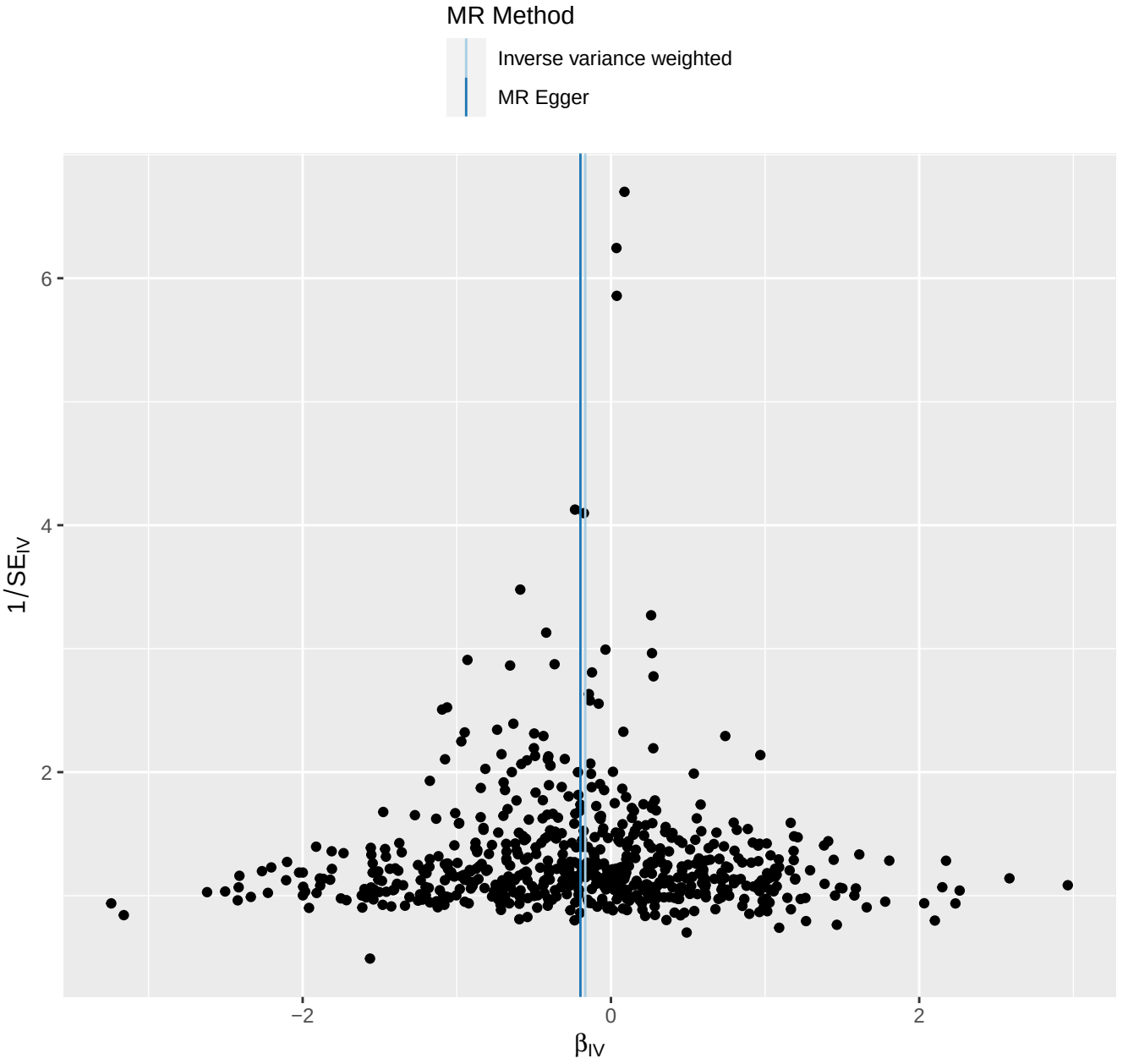
Total lipids in small LDL



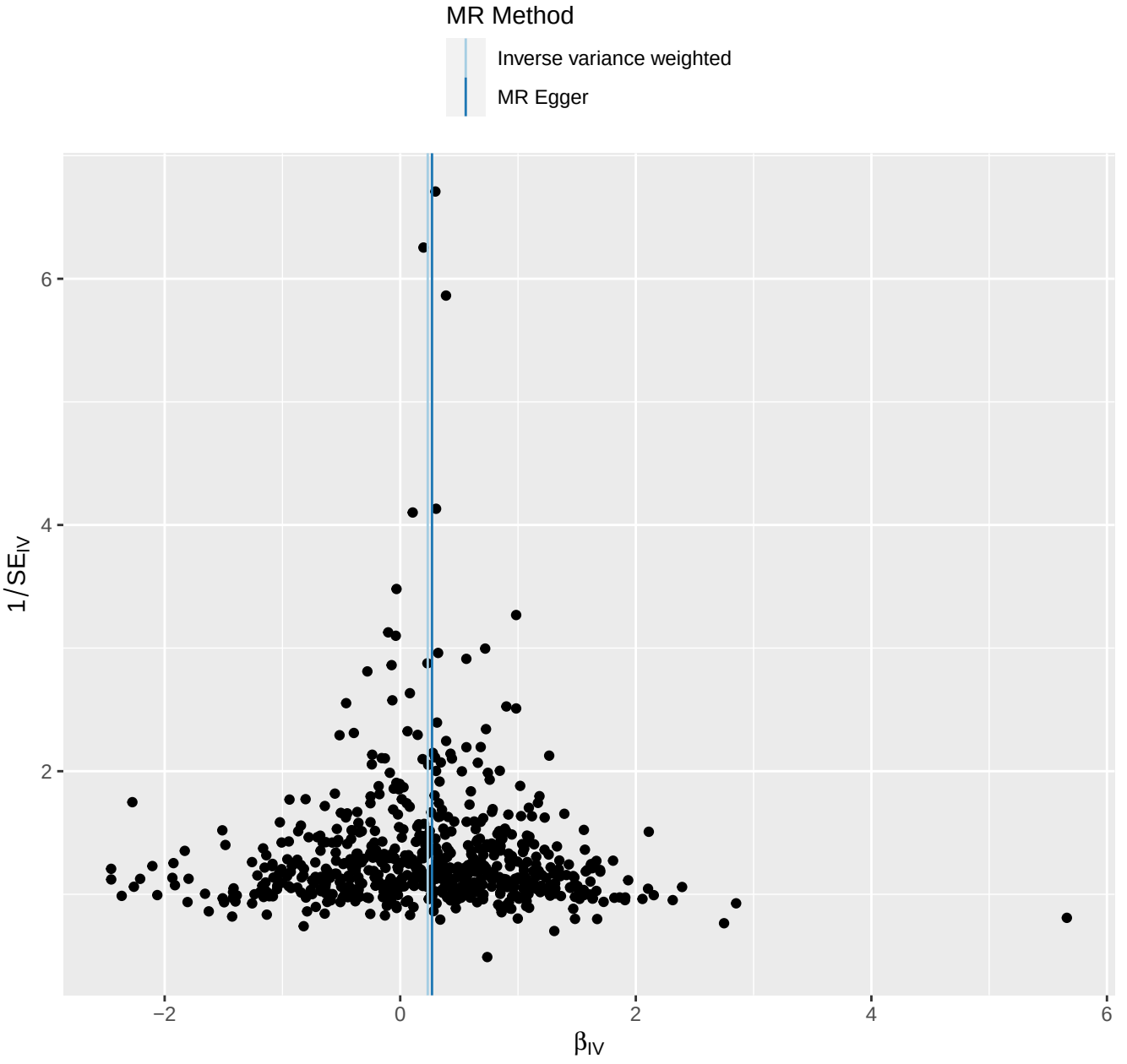
Total lipids in small VLDL



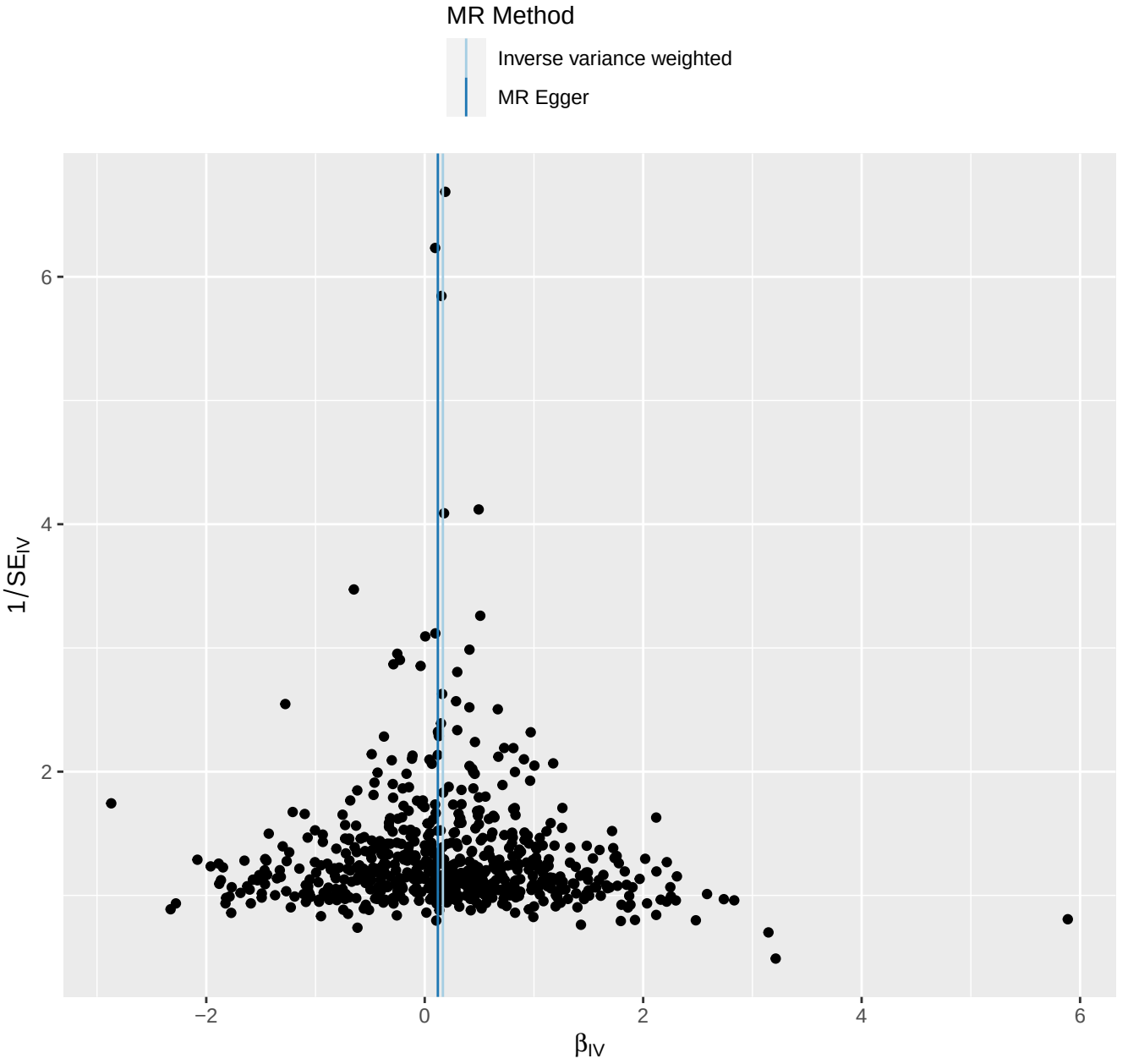
Total lipids in very large HDL



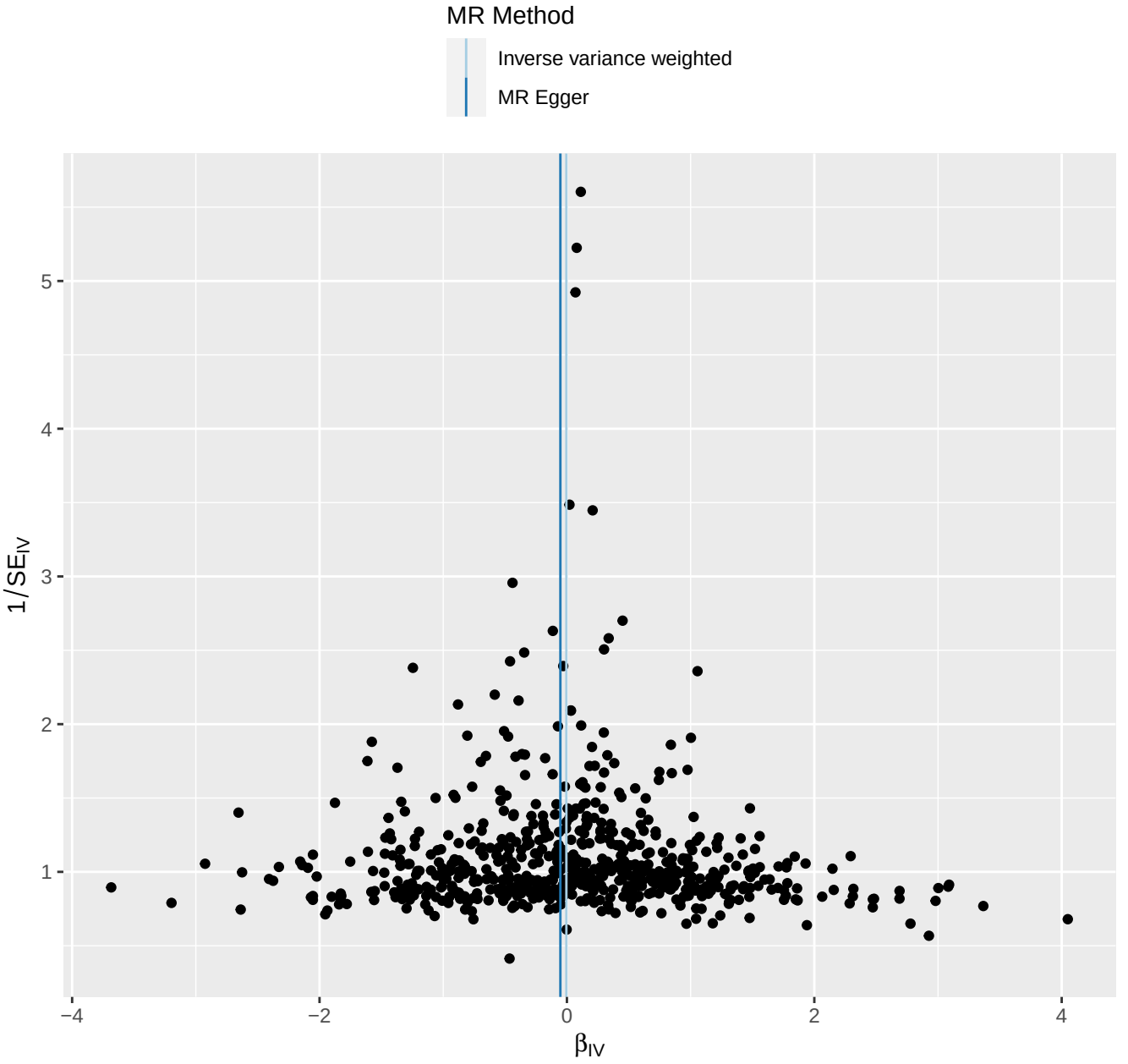
Total lipids in very large VLDL



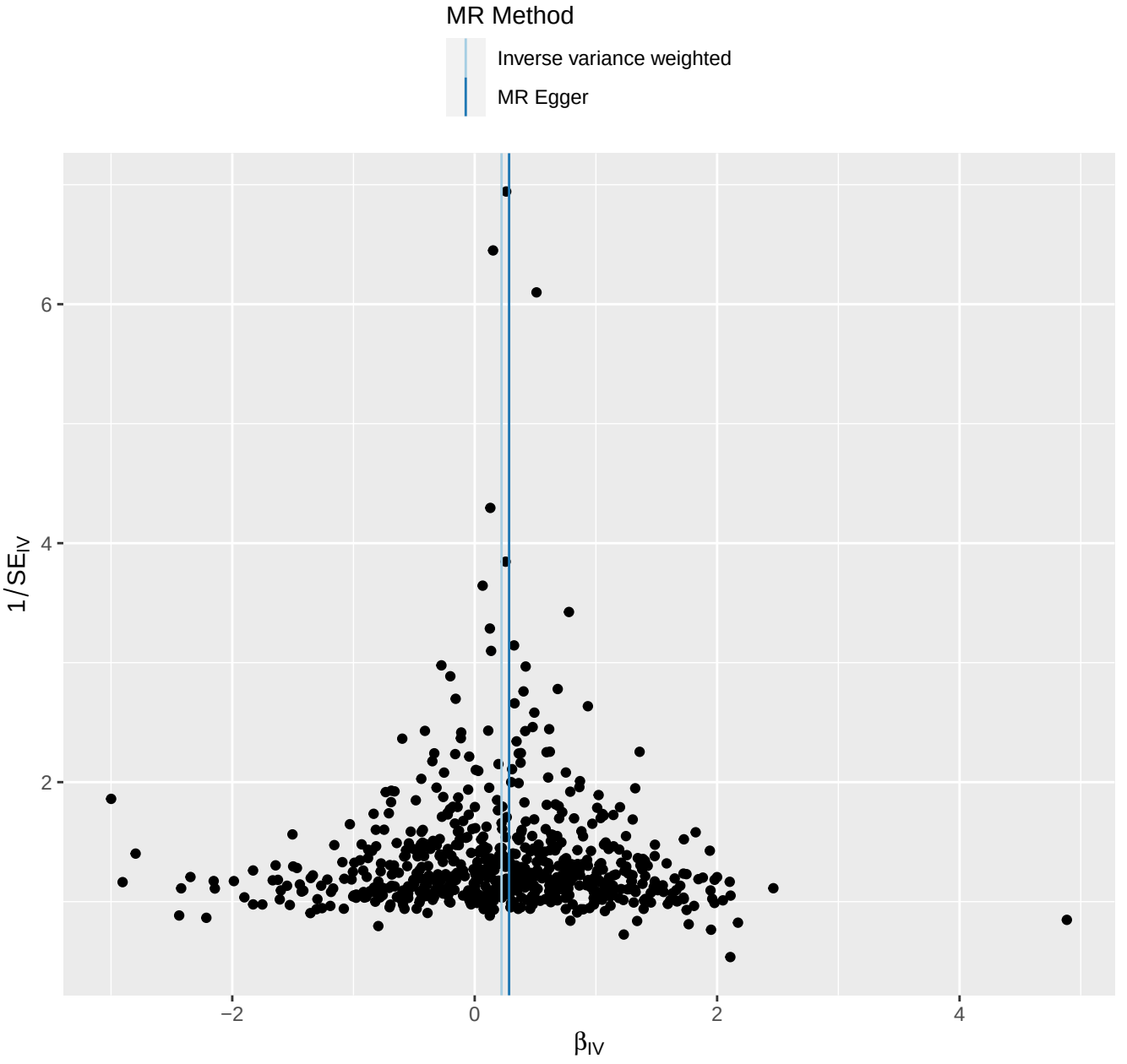
Total lipids in very small VLDL



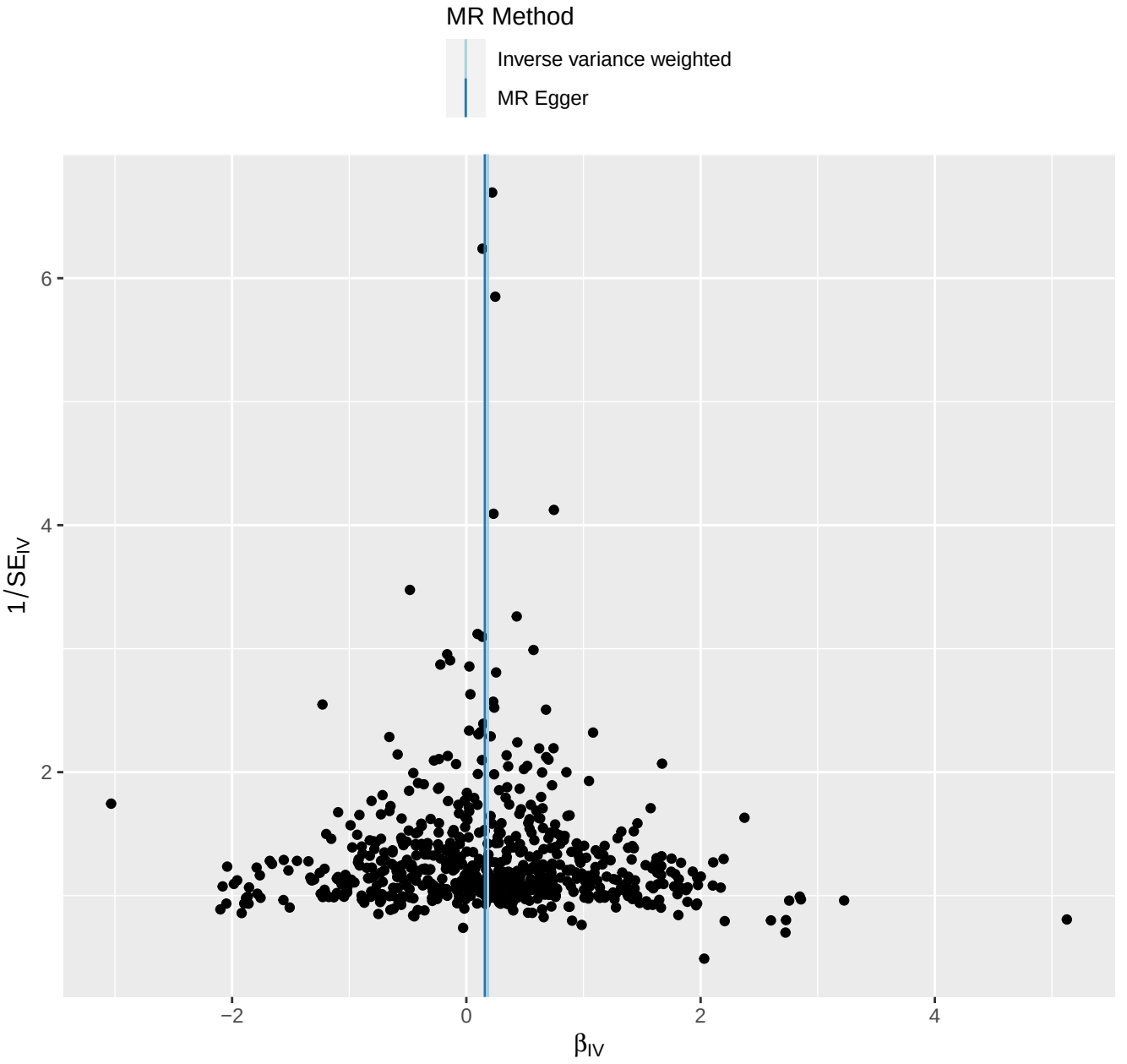
Total phosphoglycerides



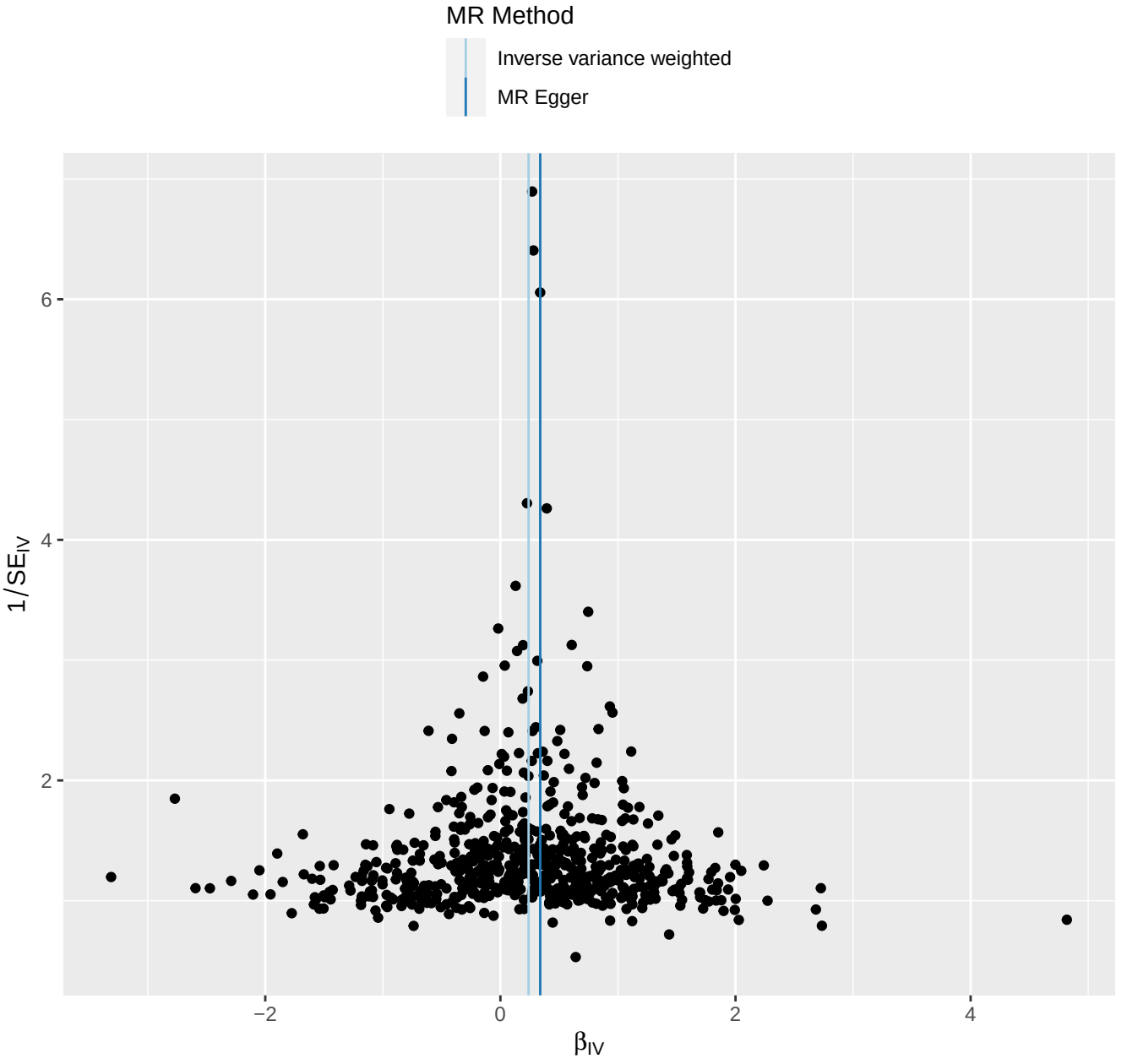
Triglycerides in chylomicrons and largest VLDL particles



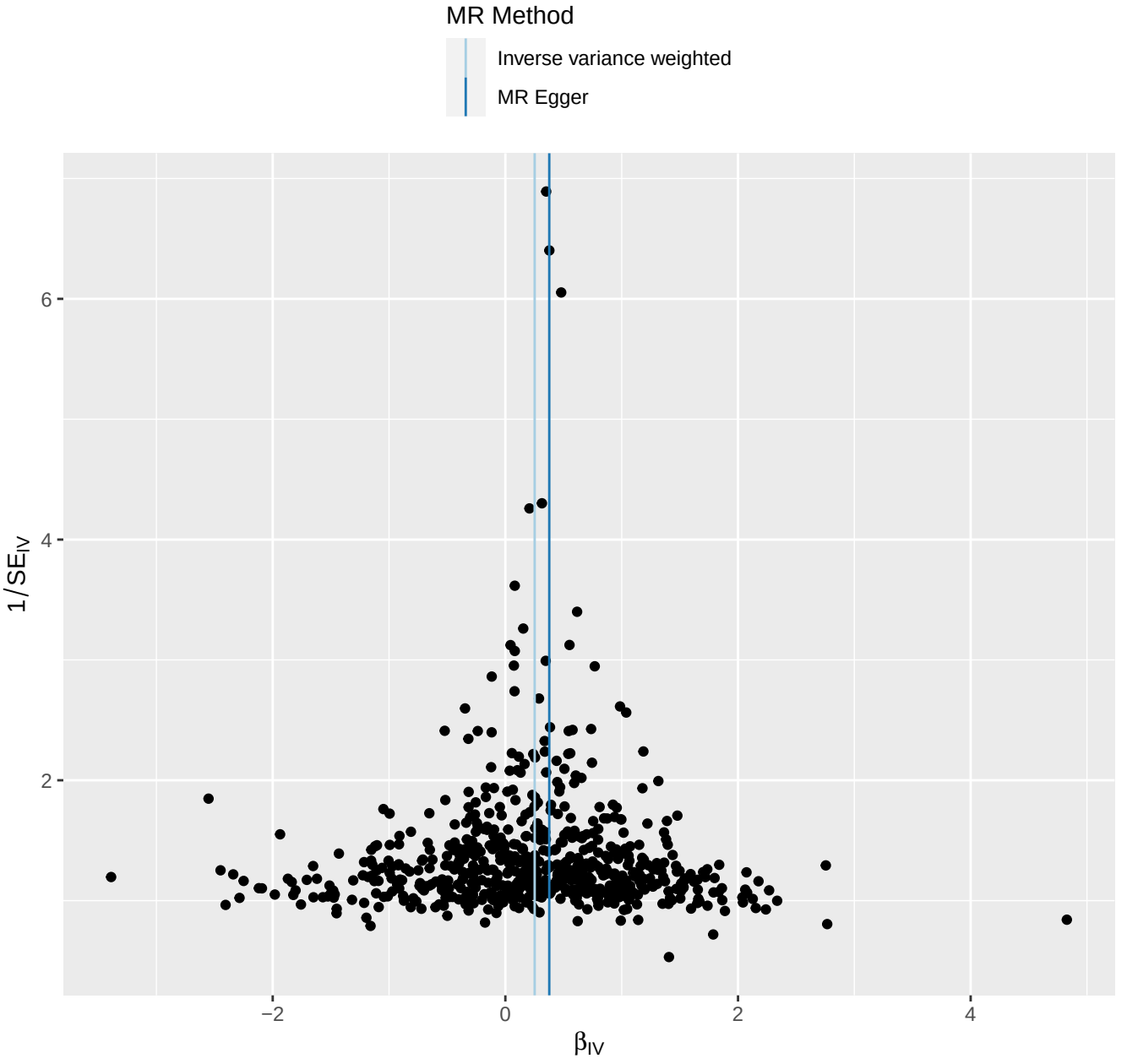
Triglycerides in IDL

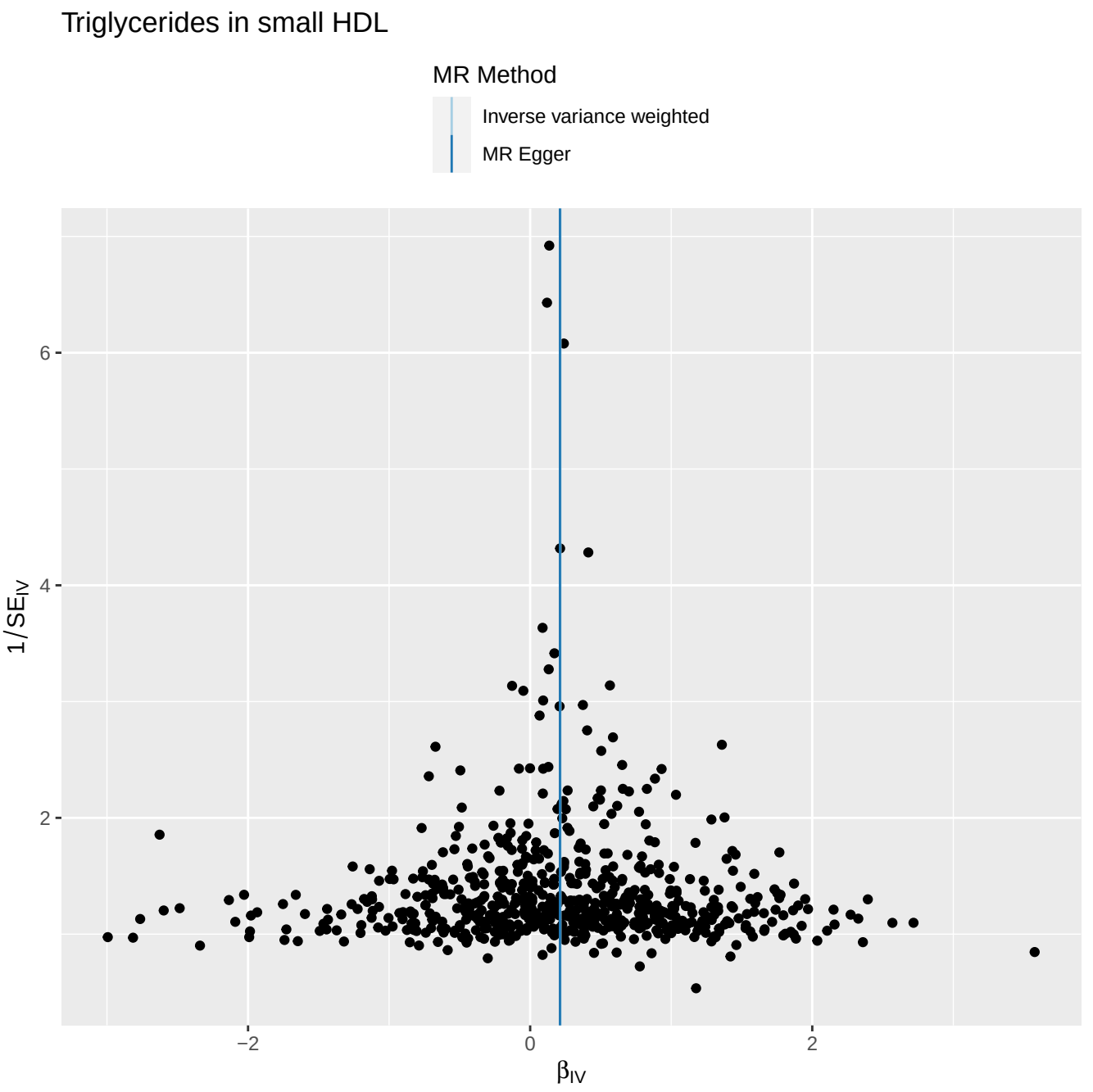


Triglycerides in large VLDL

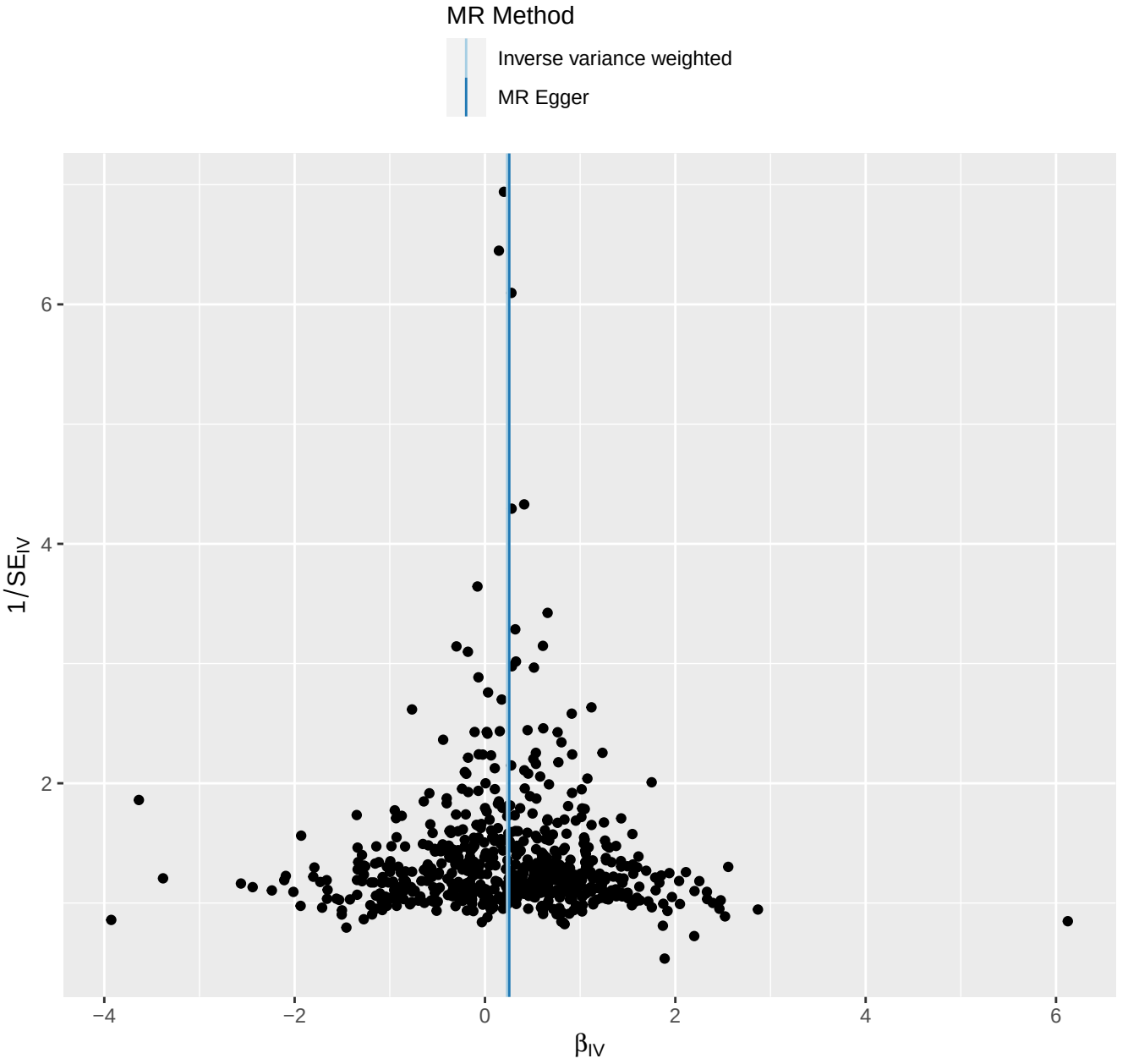


Triglycerides in medium VLDL

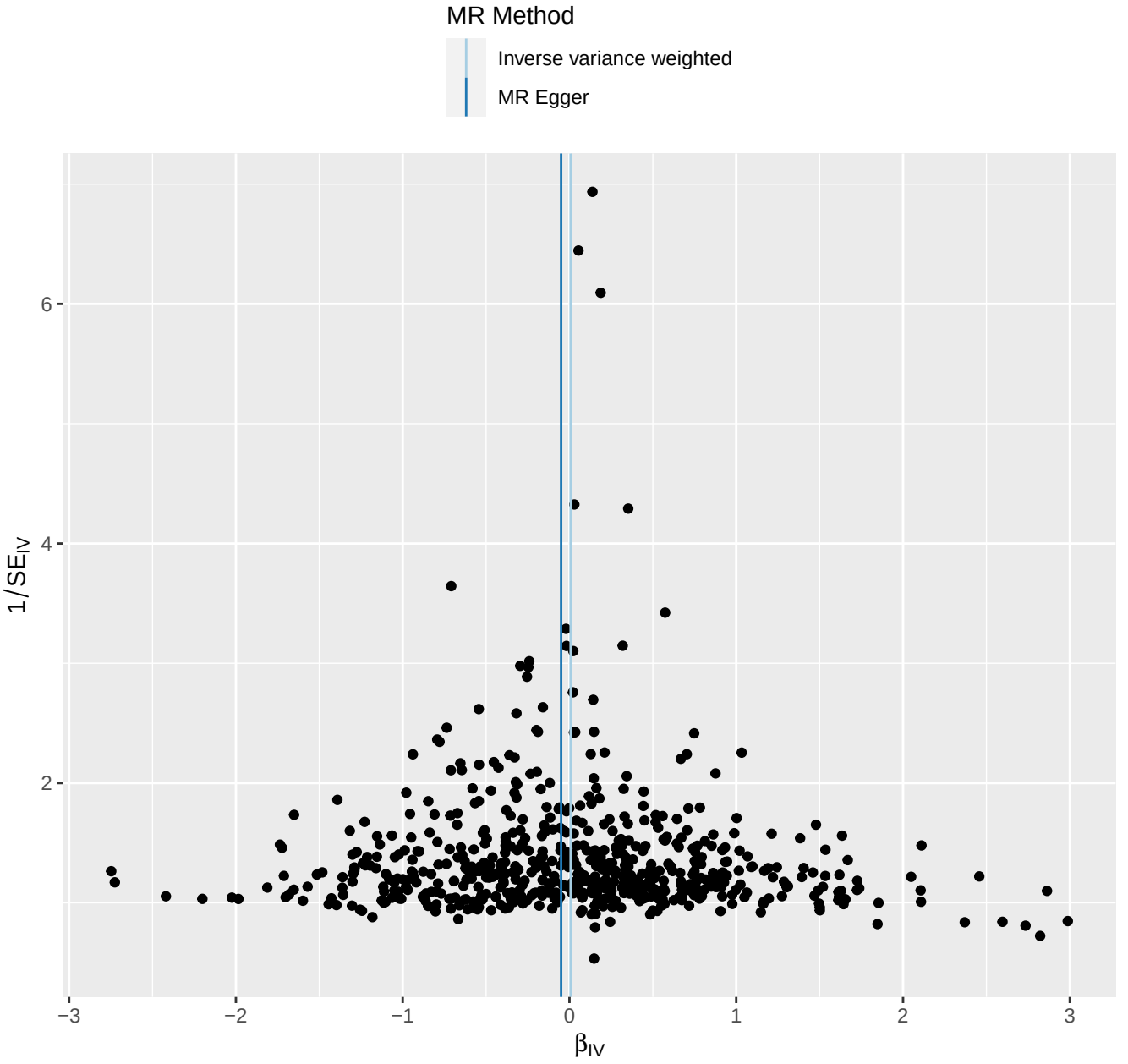



Triglycerides in small HDL
MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2
0
2
β_IV

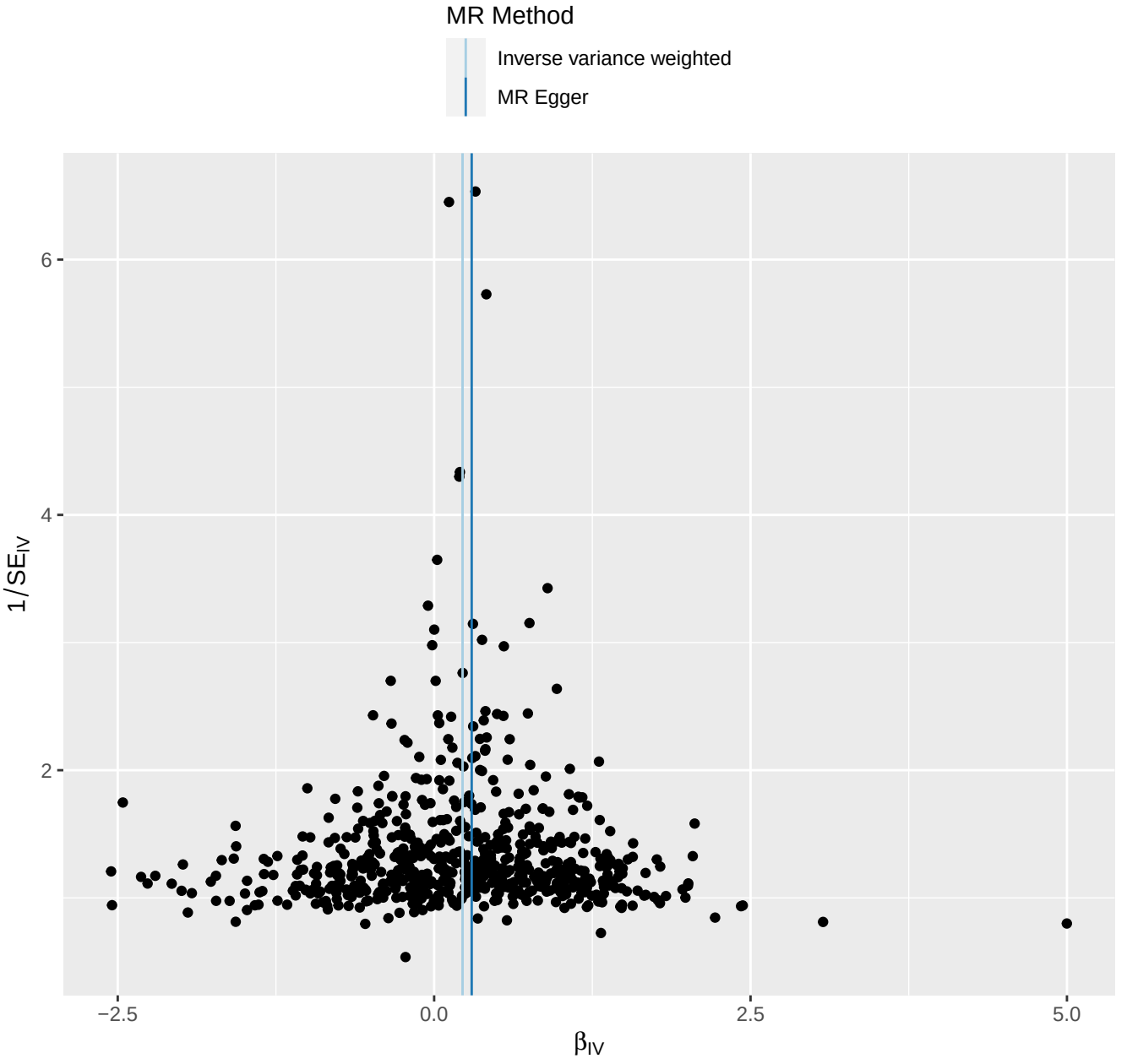
Triglycerides in small VLDL



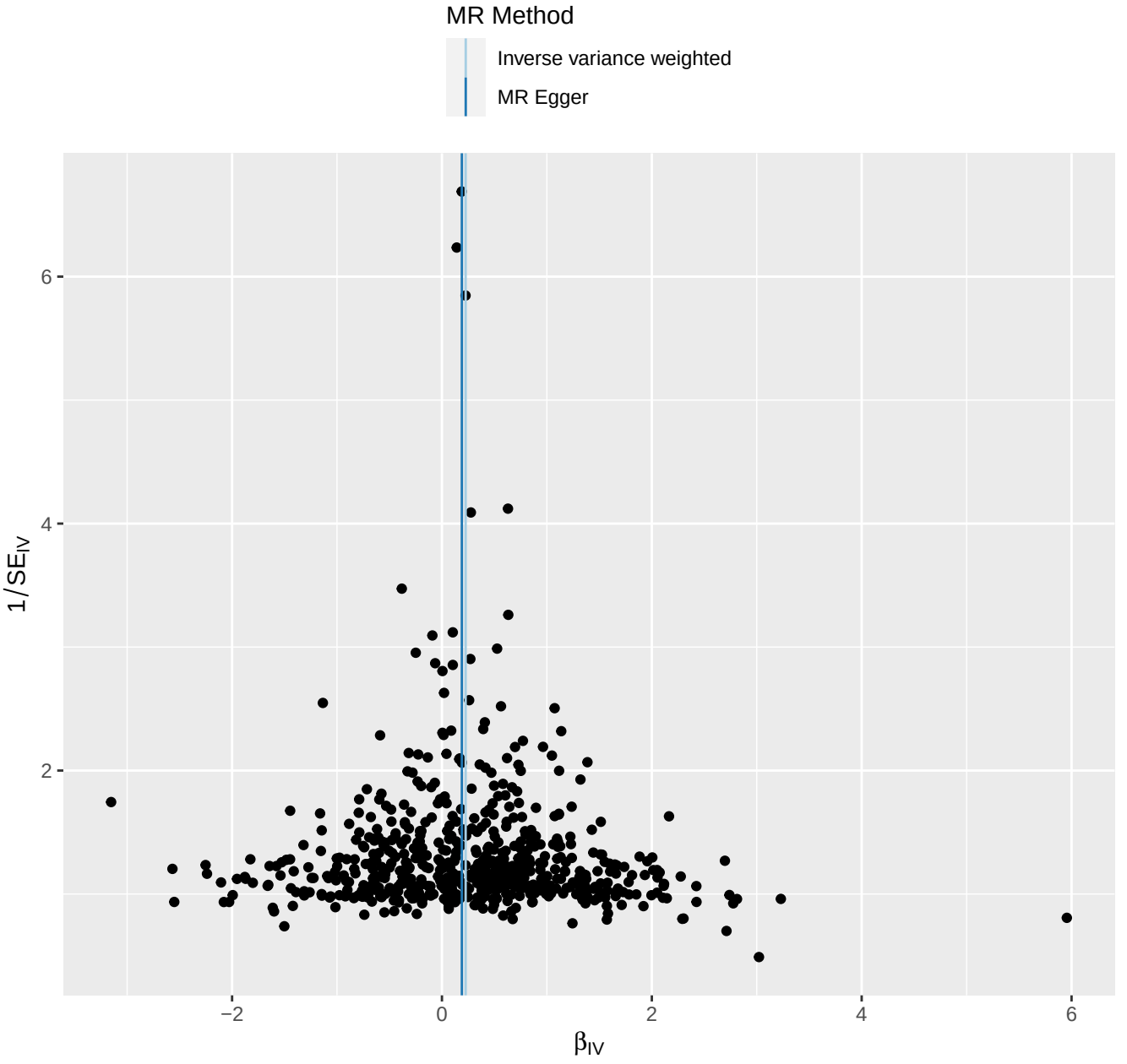
Triglycerides in very large HDL



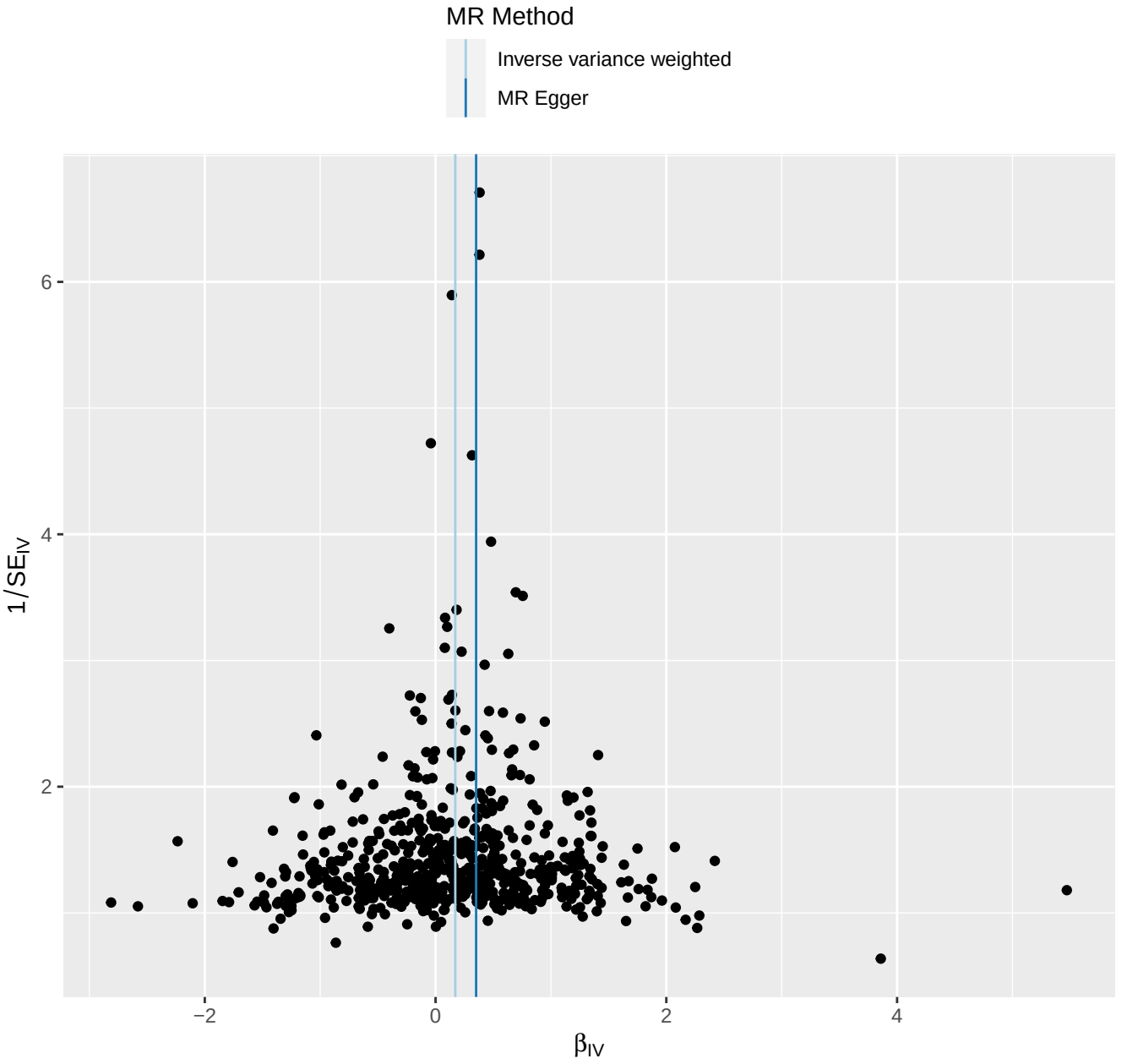
Triglycerides in very large VLDL



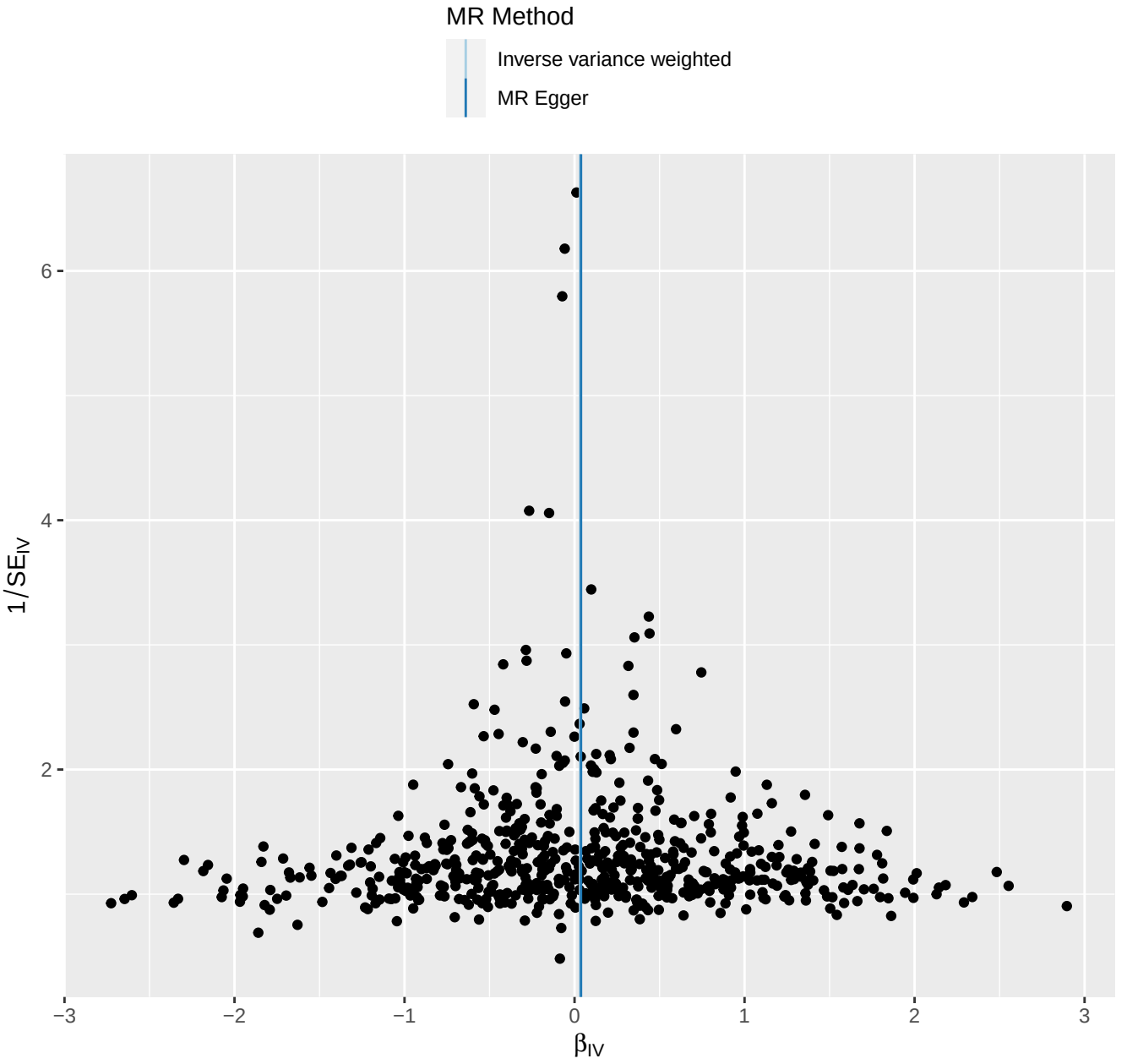
Triglycerides in very small VLDL



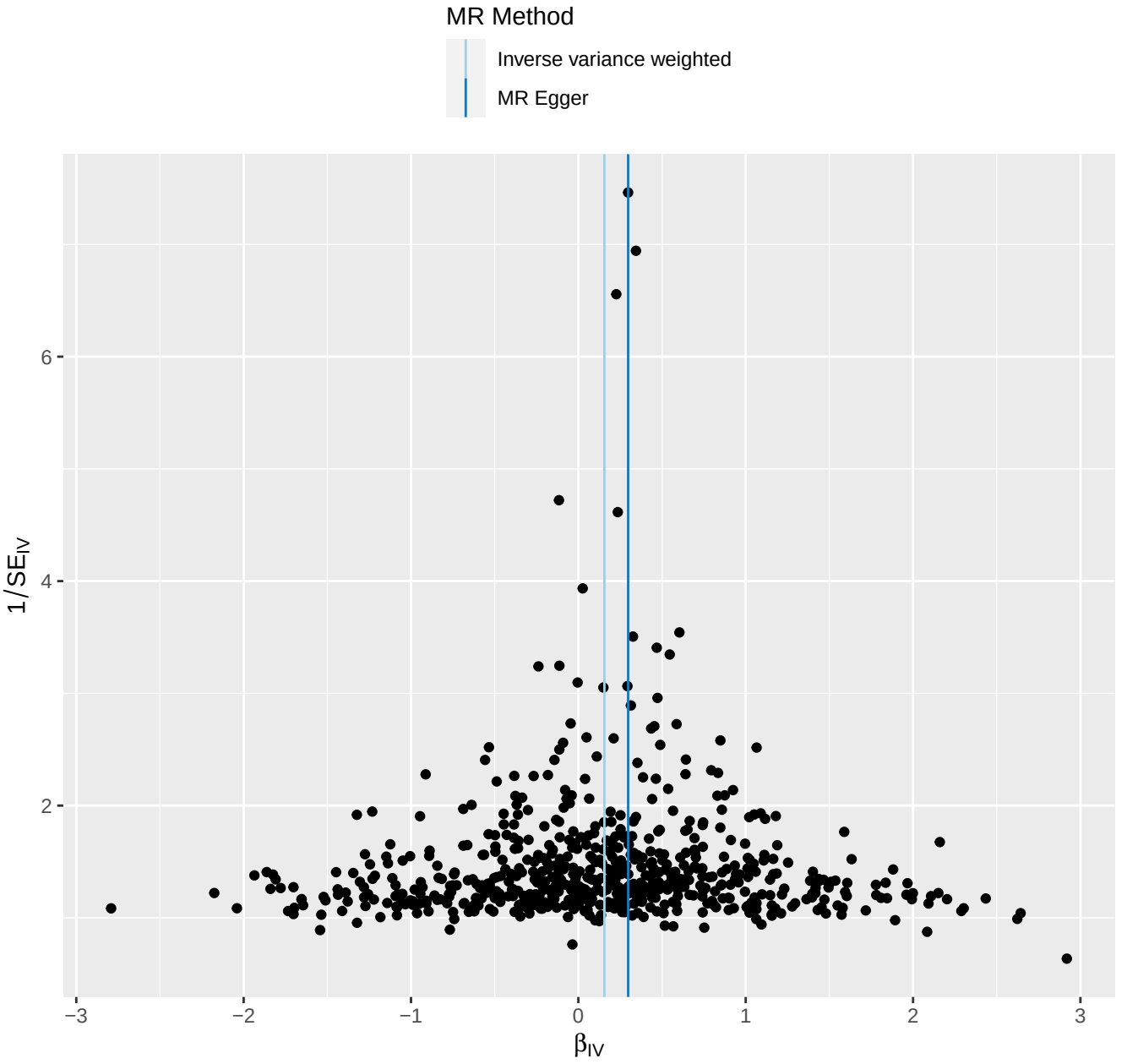
Tyrosine


MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−2
0
2
4
β_IV

Urea


MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−3
−2
−1
0
1
2
3
β_IV

Valine


MR Method
Inverse variance weighted
MR Egger
6
4
2
1/SE_IV
−3
−2
−1
0
1
2
3
β_IV