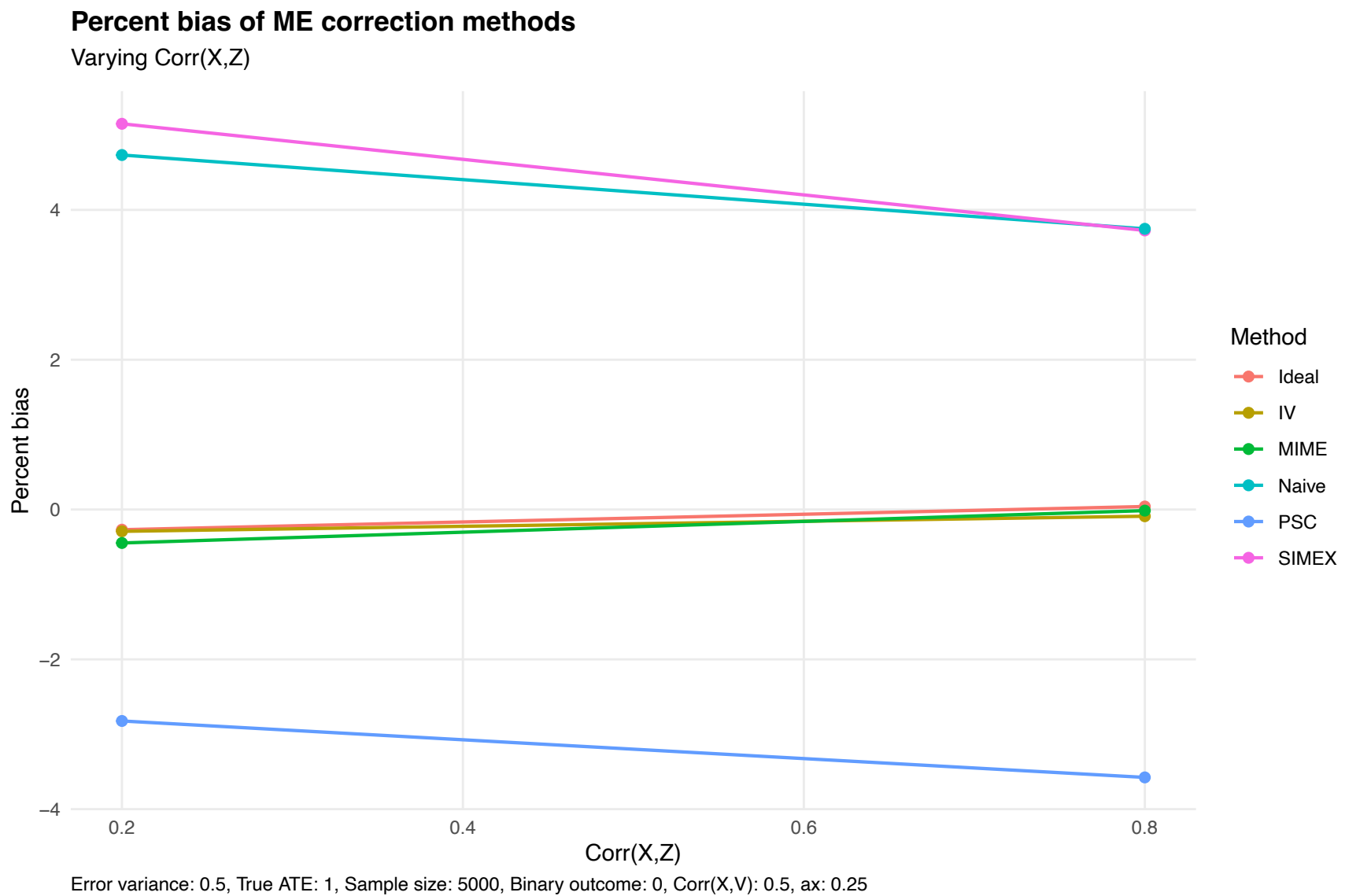
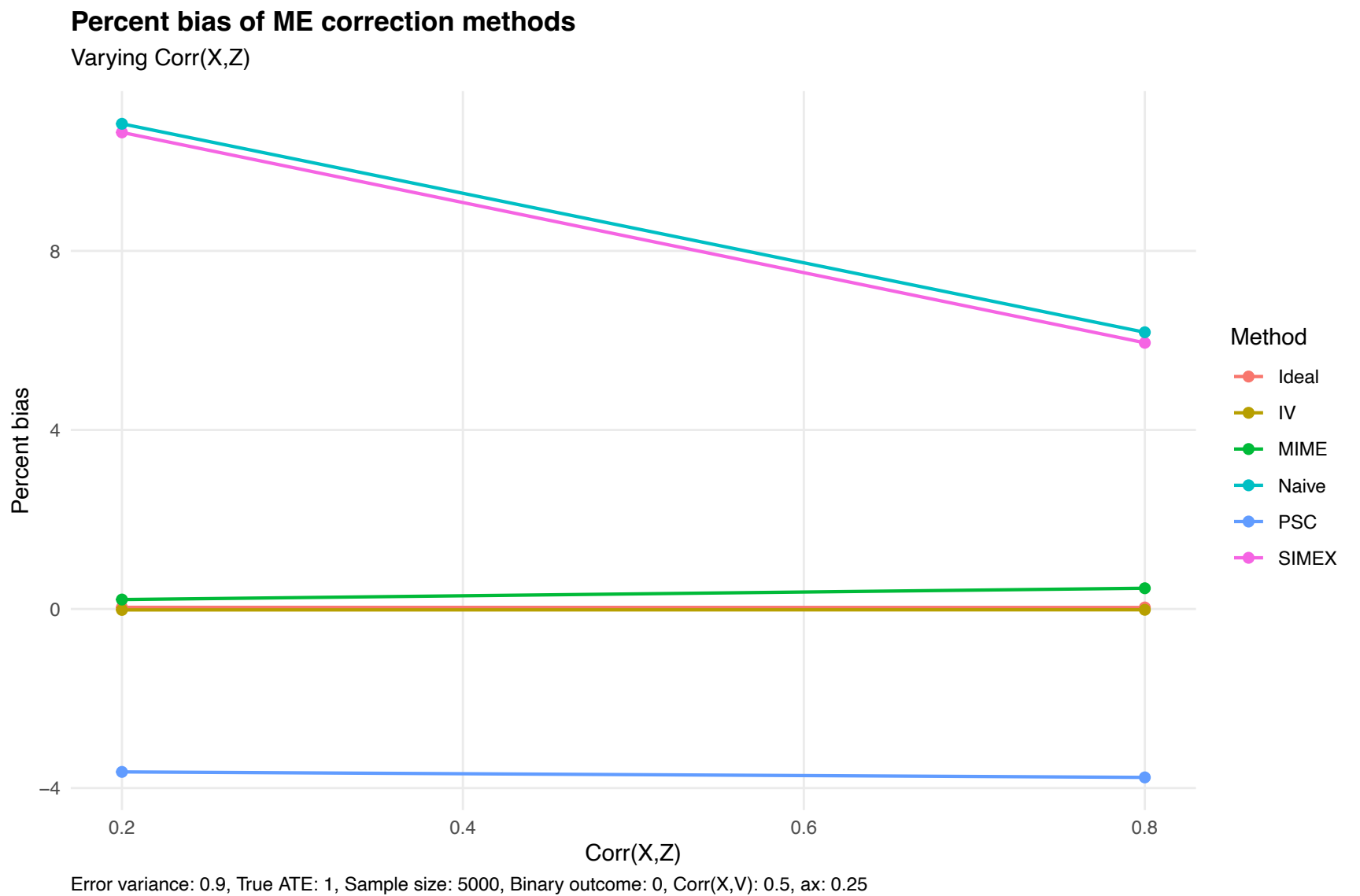
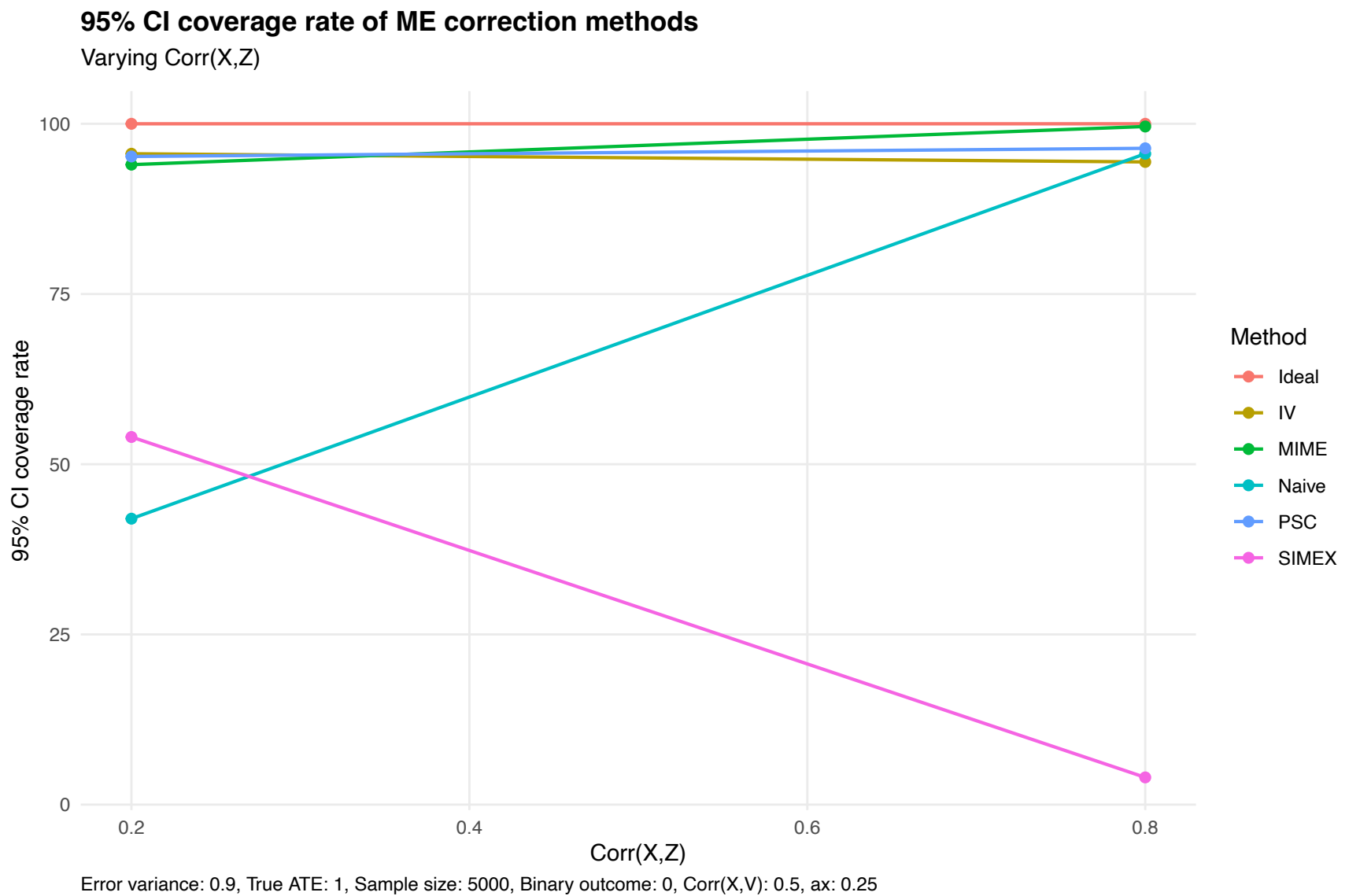
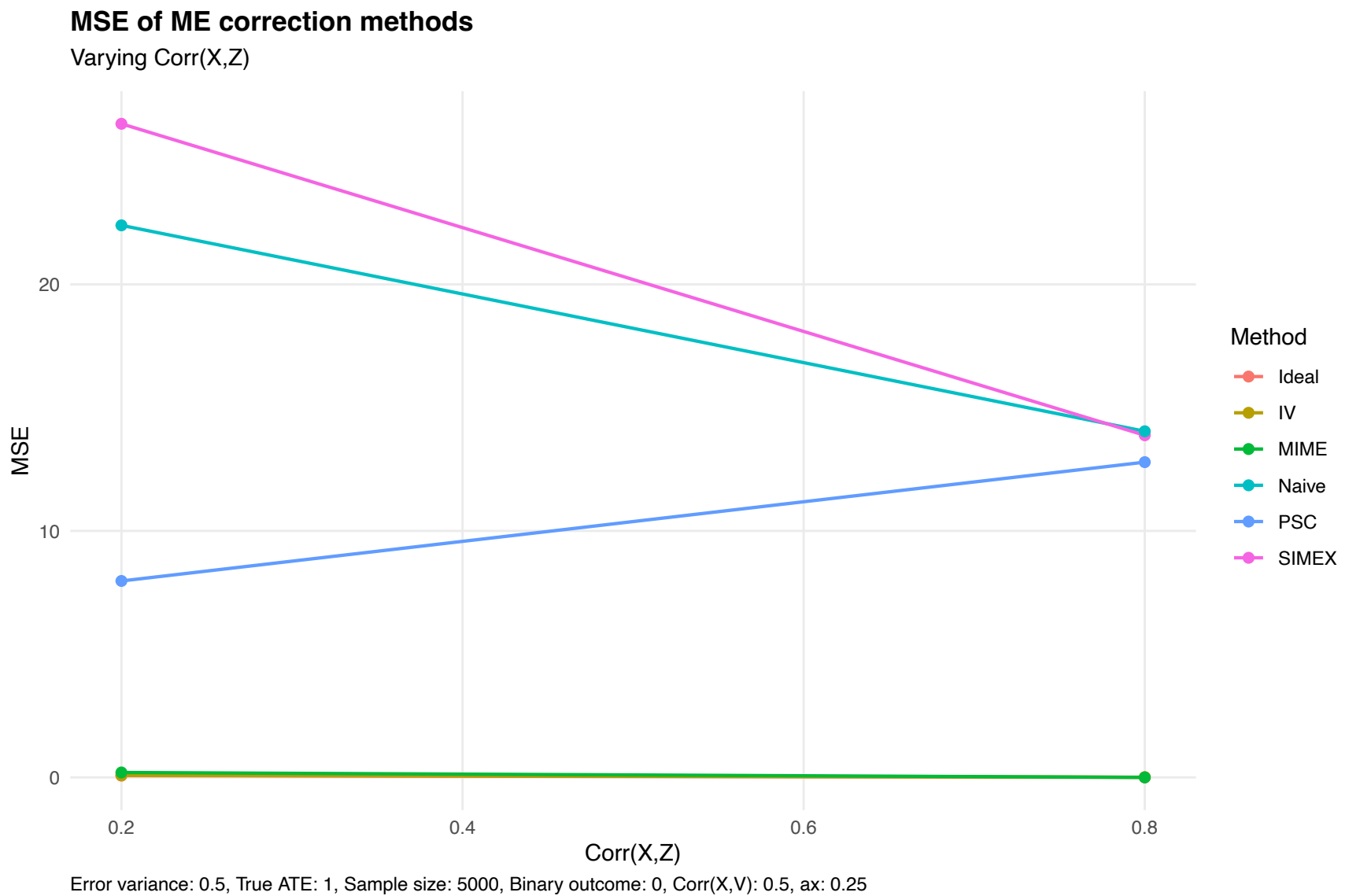
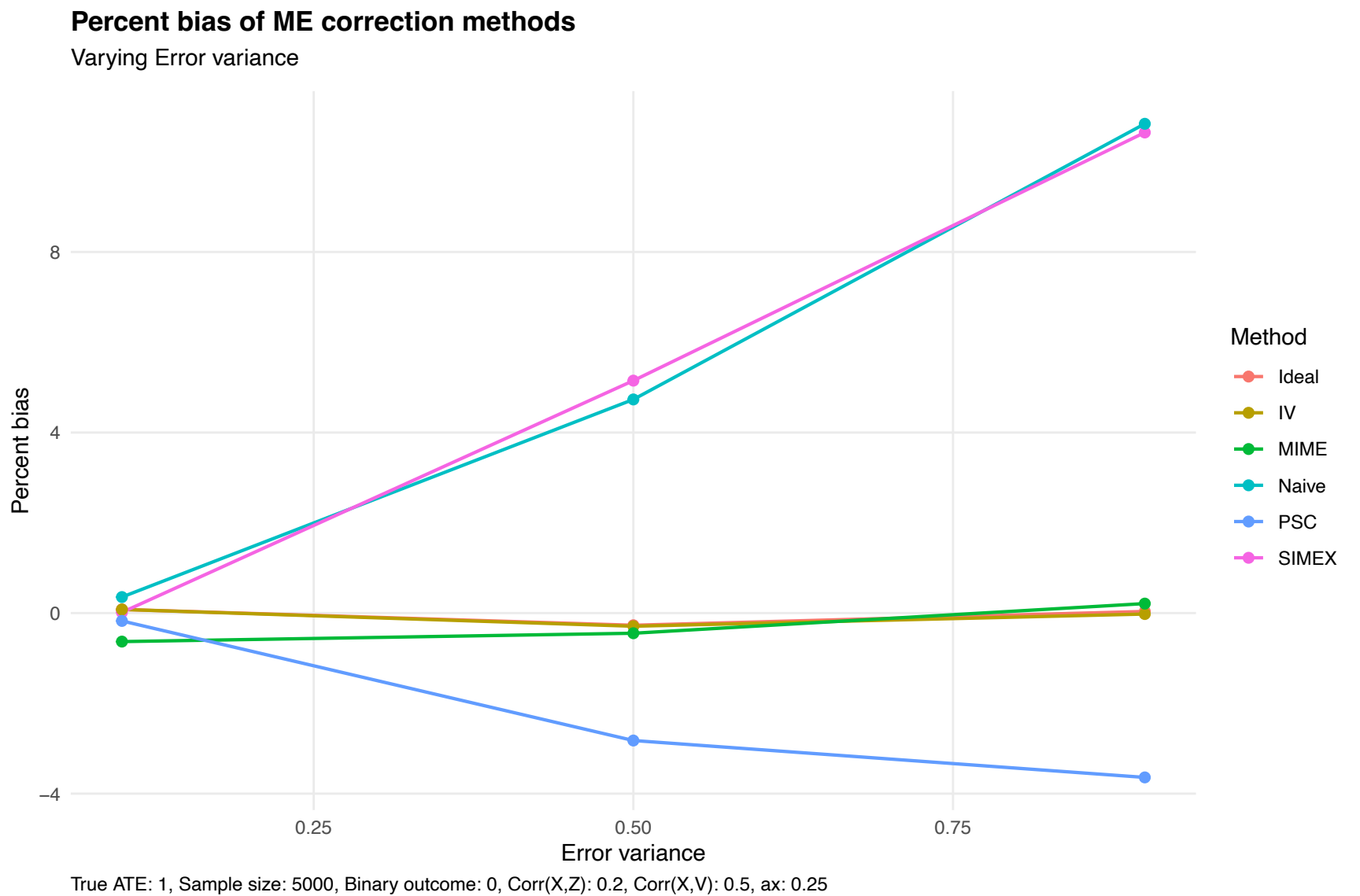
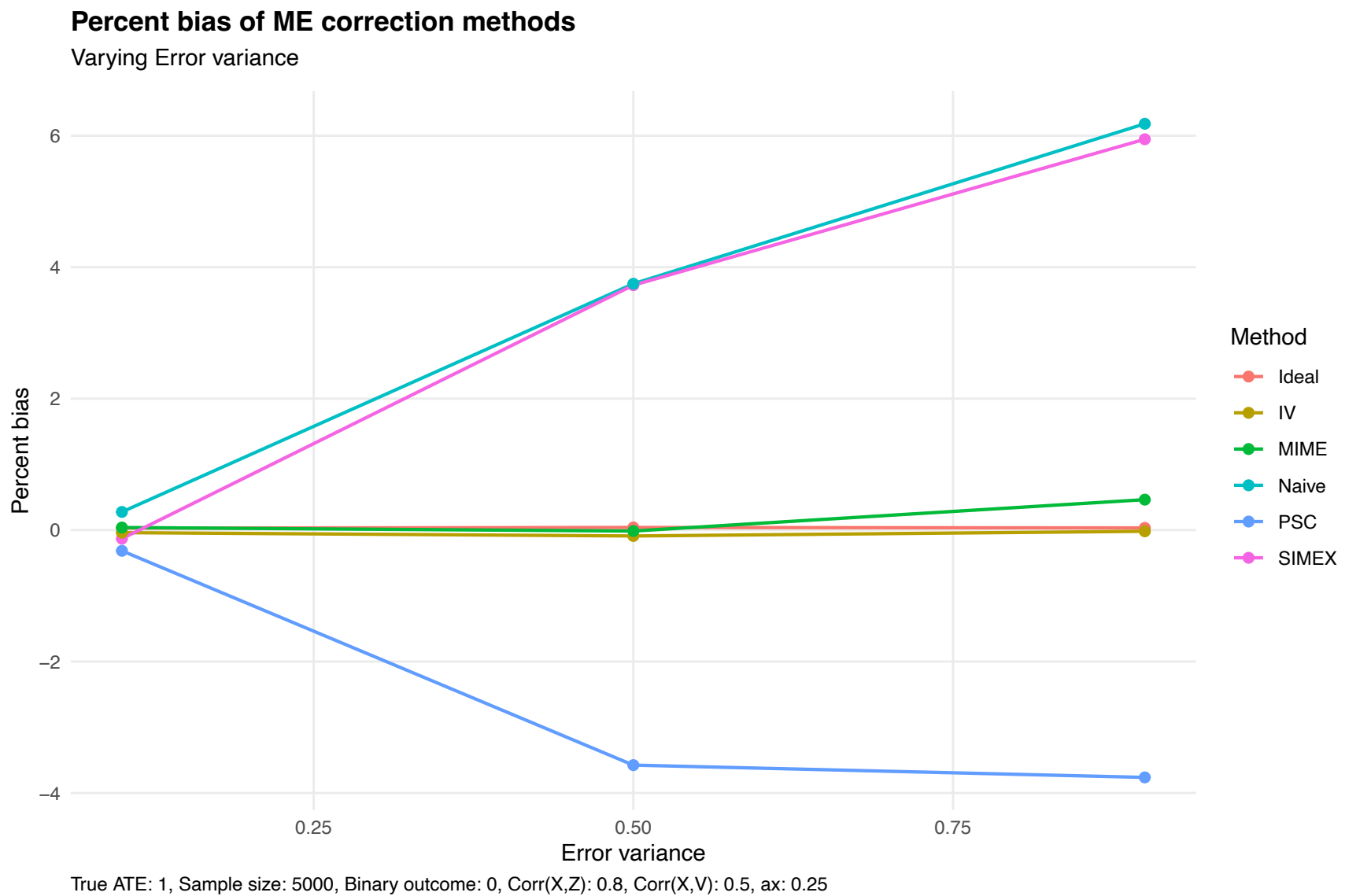

Percent bias of ME correction methods
Varying Corr(X,Z)
Percent bias
4
2
0
−2
−4
0.2
0.4
0.6
0.8
Corr(X,Z)
Method
Ideal
IV
MIME
Naive
PSC
SIMEX
Error variance: 0.5, True ATE: 1, Sample size: 5000, Binary outcome: 0, Corr(X,V): 0.5, ax: 0.25

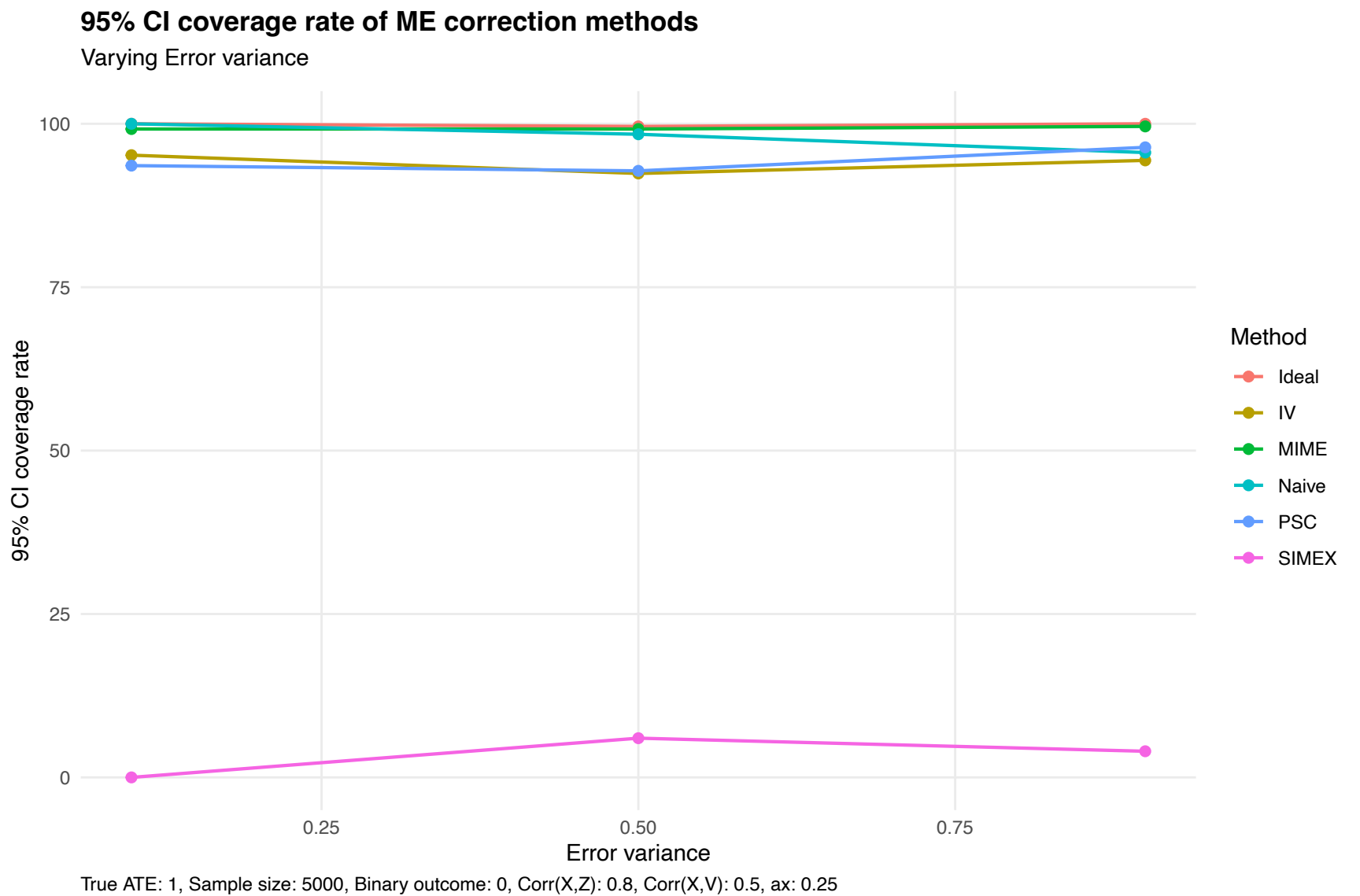

Percent bias of ME correction methods
Varying Corr(X,Z)
Percent bias
8
4
0
−4
0.2
0.4
0.6
0.8
Corr(X,Z)
Method
Ideal
IV
MIME
Naive
PSC
SIMEX
Error variance: 0.9, True ATE: 1, Sample size: 5000, Binary outcome: 0, Corr(X,V): 0.5, ax: 0.25

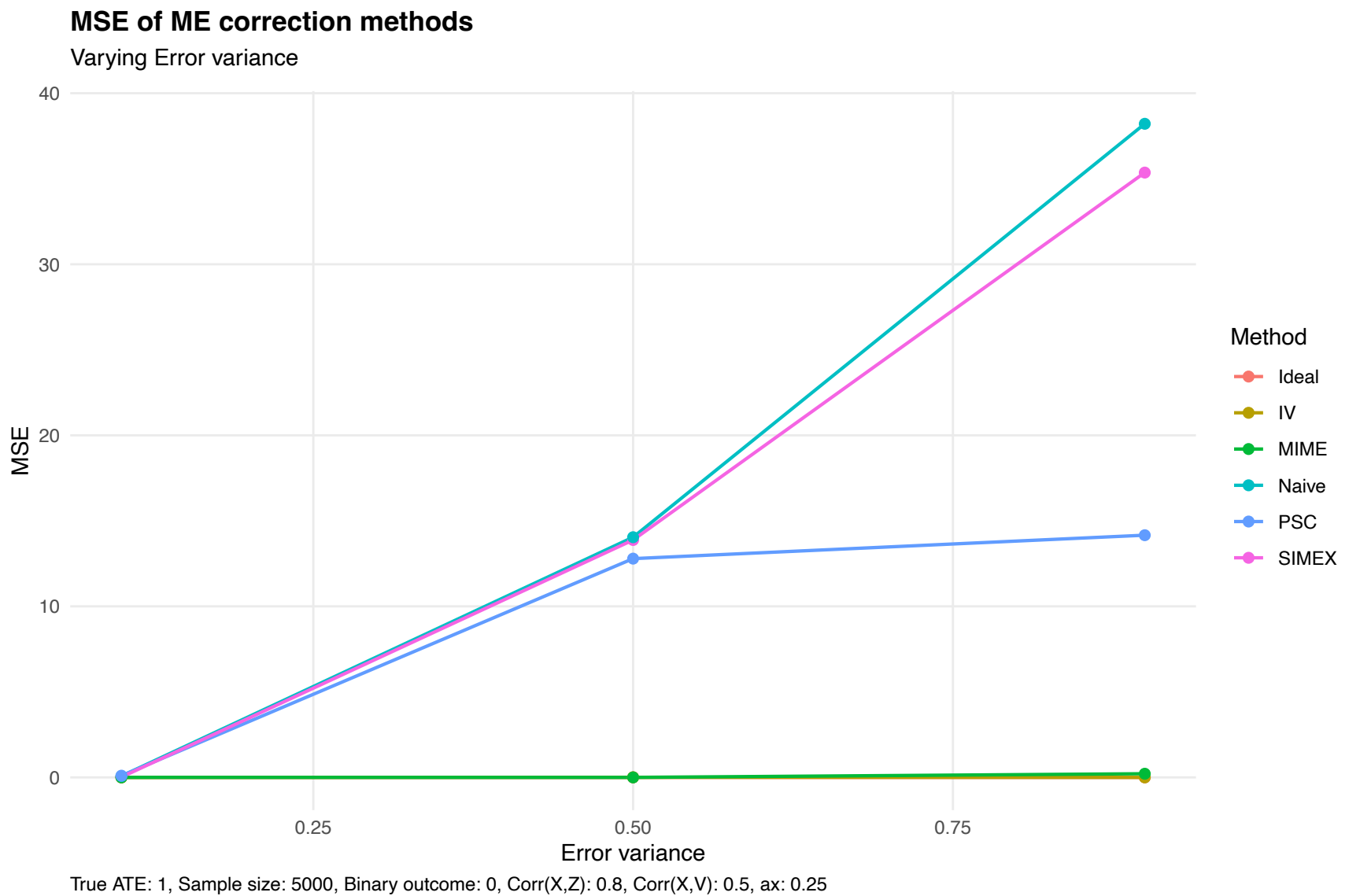

95% CI coverage rate of ME correction methods
Varying Corr(X,Z)
100
75
50
25
0
95% CI coverage rate
0.2
0.4
0.6
0.8
Corr(X,Z)
Method
Ideal
IV
MIME
Naive
PSC
SIMEX
Error variance: 0.9, True ATE: 1, Sample size: 5000, Binary outcome: 0, Corr(X,V): 0.5, ax: 0.25


MSE of ME correction methods
Varying Corr(X,Z)
MSE
20
10
0
0.2
0.4
0.6
0.8
Corr(X,Z)
Method
Ideal
IV
MIME
Naive
PSC
SIMEX
Error variance: 0.5, True ATE: 1, Sample size: 5000, Binary outcome: 0, Corr(X,V): 0.5, ax: 0.25


Percent bias of ME correction methods
Varying Error variance
Percent bias
8
4
0
−4
0.25
0.50
0.75
Error variance
Method
Ideal
IV
MIME
Naive
PSC
SIMEX
True ATE: 1, Sample size: 5000, Binary outcome: 0, Corr(X,Z): 0.2, Corr(X,V): 0.5, ax: 0.25


Percent bias of ME correction methods
Varying Error variance
Percent bias
6
4
2
0
−2
−4
0.25
0.50
0.75
Error variance
Method
Ideal
IV
MIME
Naive
PSC
SIMEX
True ATE: 1, Sample size: 5000, Binary outcome: 0, Corr(X,Z): 0.8, Corr(X,V): 0.5, ax: 0.25


95% CI coverage rate of ME correction methods
Varying Error variance
100
75
50
25
0
95% CI coverage rate
0.25
0.50
0.75
Error variance
Method
Ideal
IV
MIME
Naive
PSC
SIMEX
True ATE: 1, Sample size: 5000, Binary outcome: 0, Corr(X,Z): 0.8, Corr(X,V): 0.5, ax: 0.25


MSE of ME correction methods
Varying Error variance
40
30
20
10
0
MSE
0.25
0.50
0.75
Error variance
Method
Ideal
IV
MIME
Naive
PSC
SIMEX
True ATE: 1, Sample size: 5000, Binary outcome: 0, Corr(X,Z): 0.8, Corr(X,V): 0.5, ax: 0.25