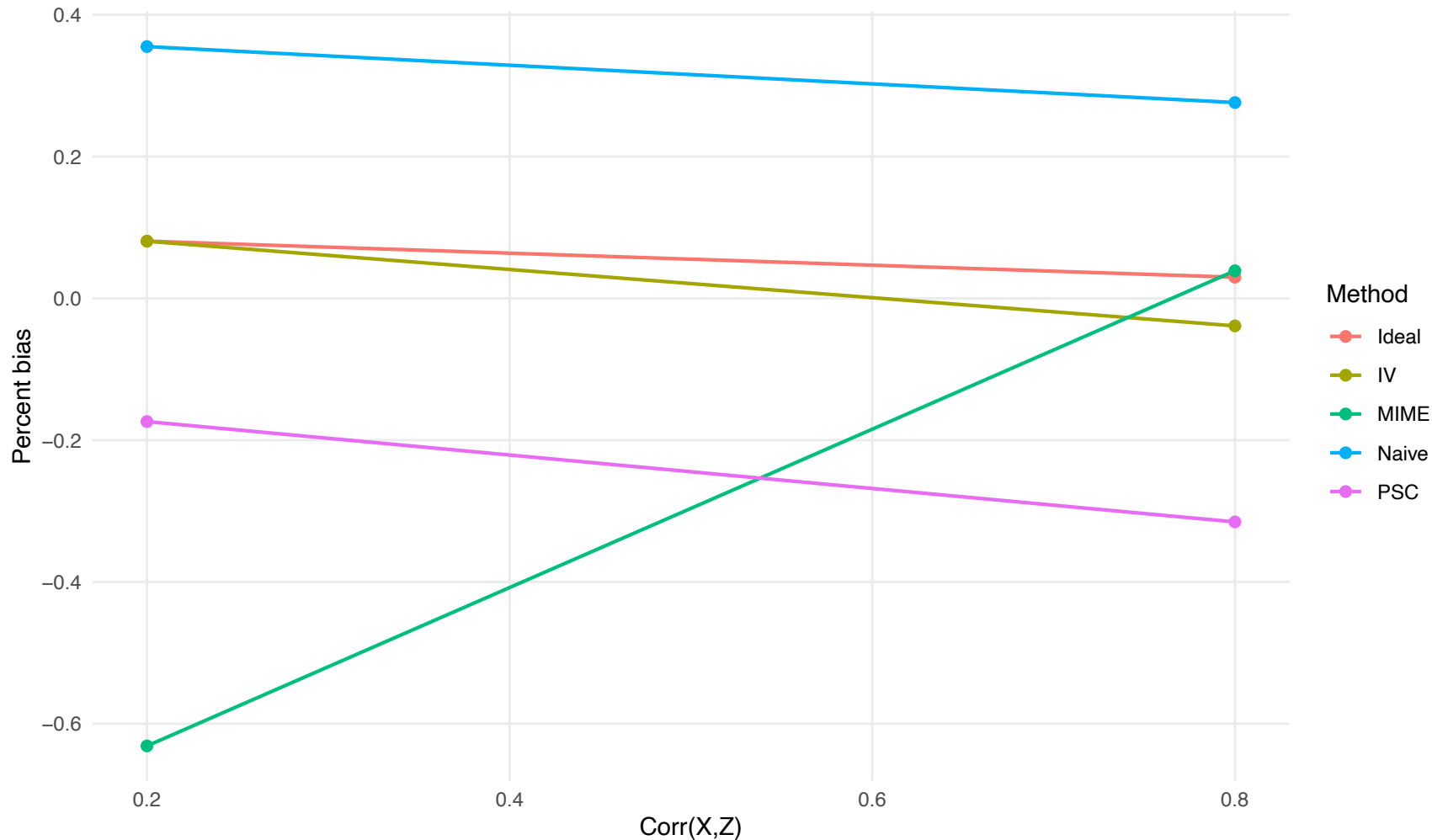


# Percent bias of ME correction methods

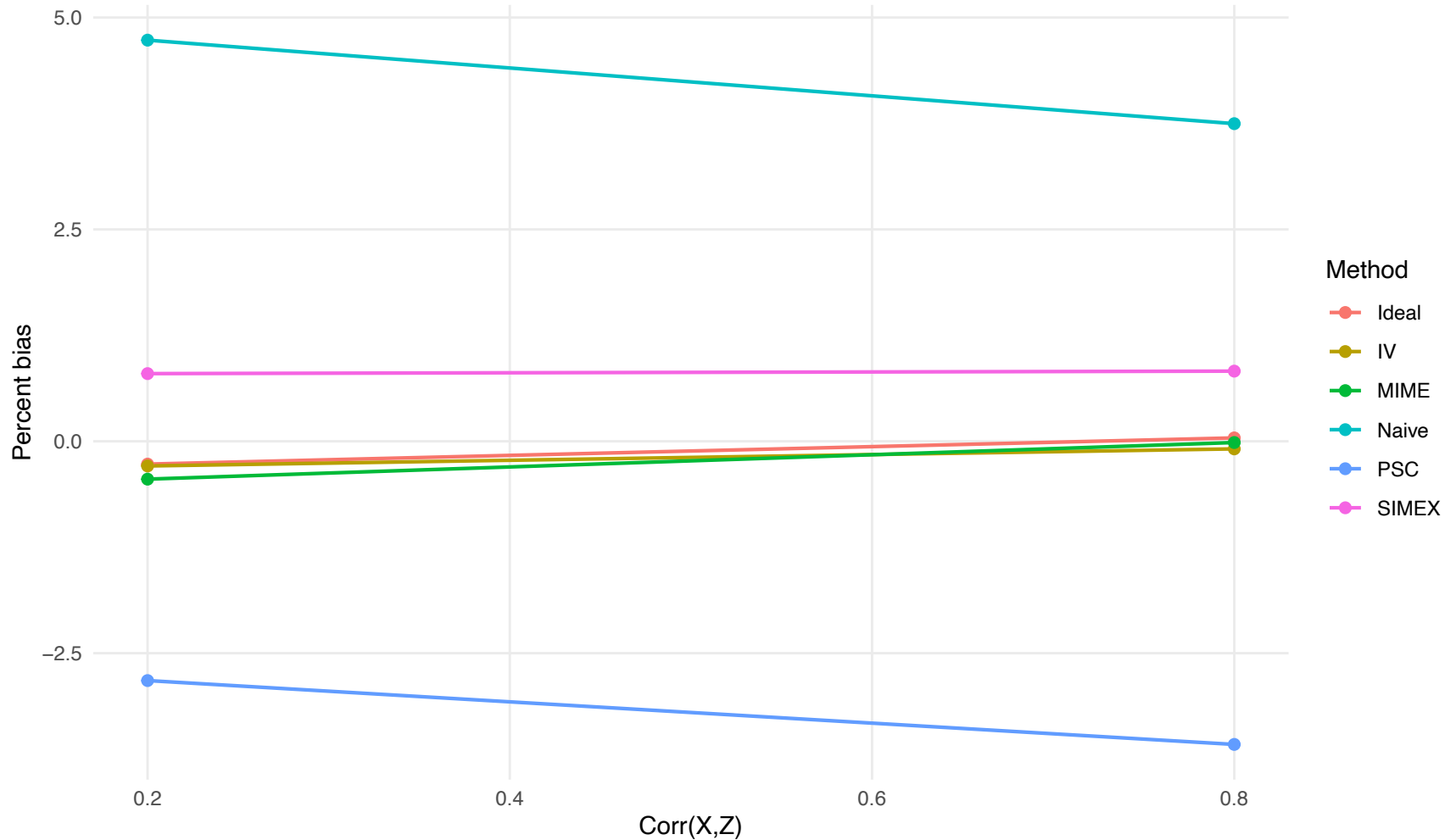
Varying  $\text{Corr}(X,Z)$



Error variance: 0.1, True ATE: 1, Sample size: 5000, Binary outcome: 0,  $\text{Corr}(X,V)$ : 0.5,  $\alpha$ : 0.25

# Percent bias of ME correction methods

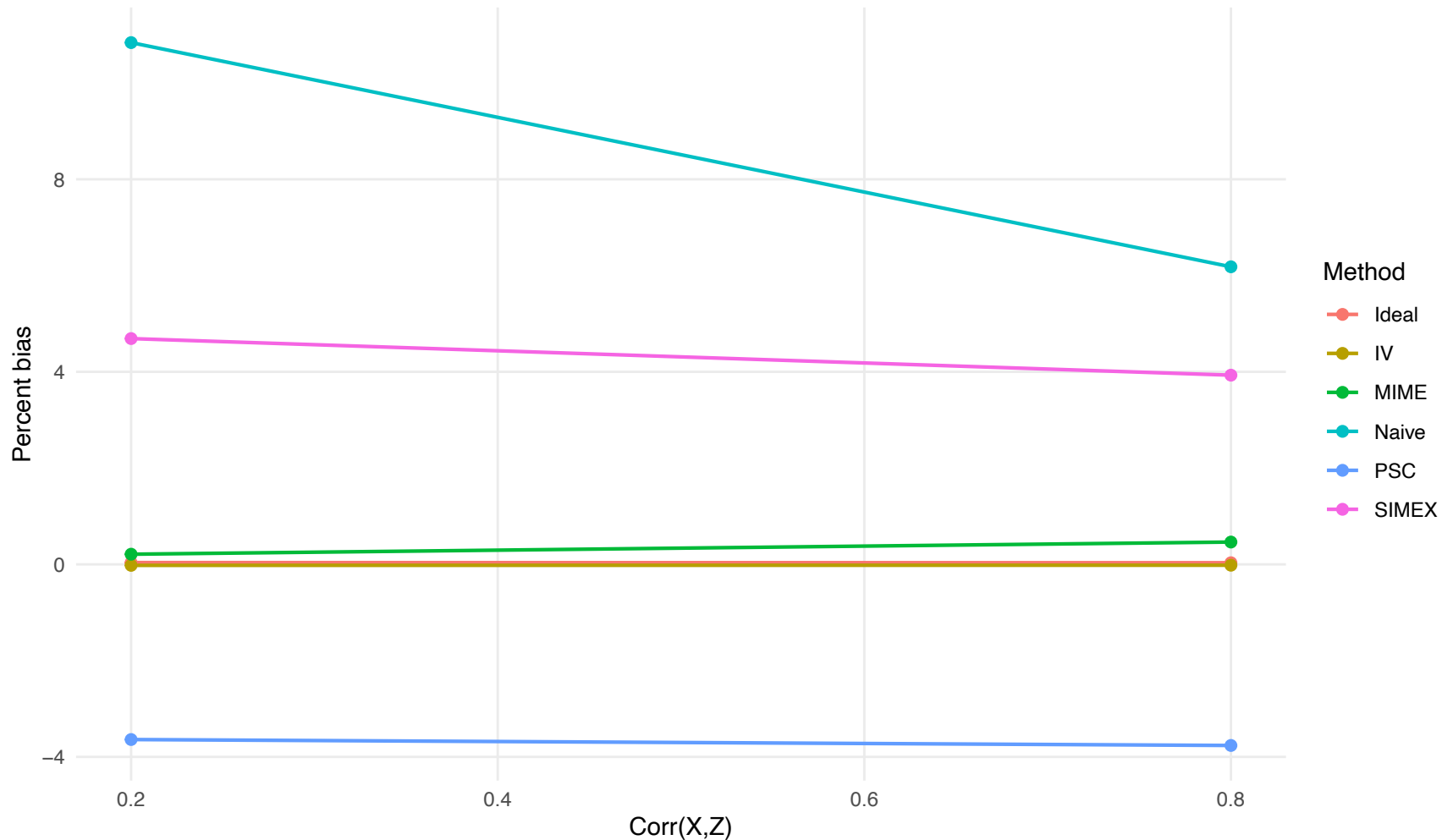
Varying  $\text{Corr}(X,Z)$



Error variance: 0.5, True ATE: 1, Sample size: 5000, Binary outcome: 0,  $\text{Corr}(X,V)$ : 0.5,  $\alpha$ : 0.25

# Percent bias of ME correction methods

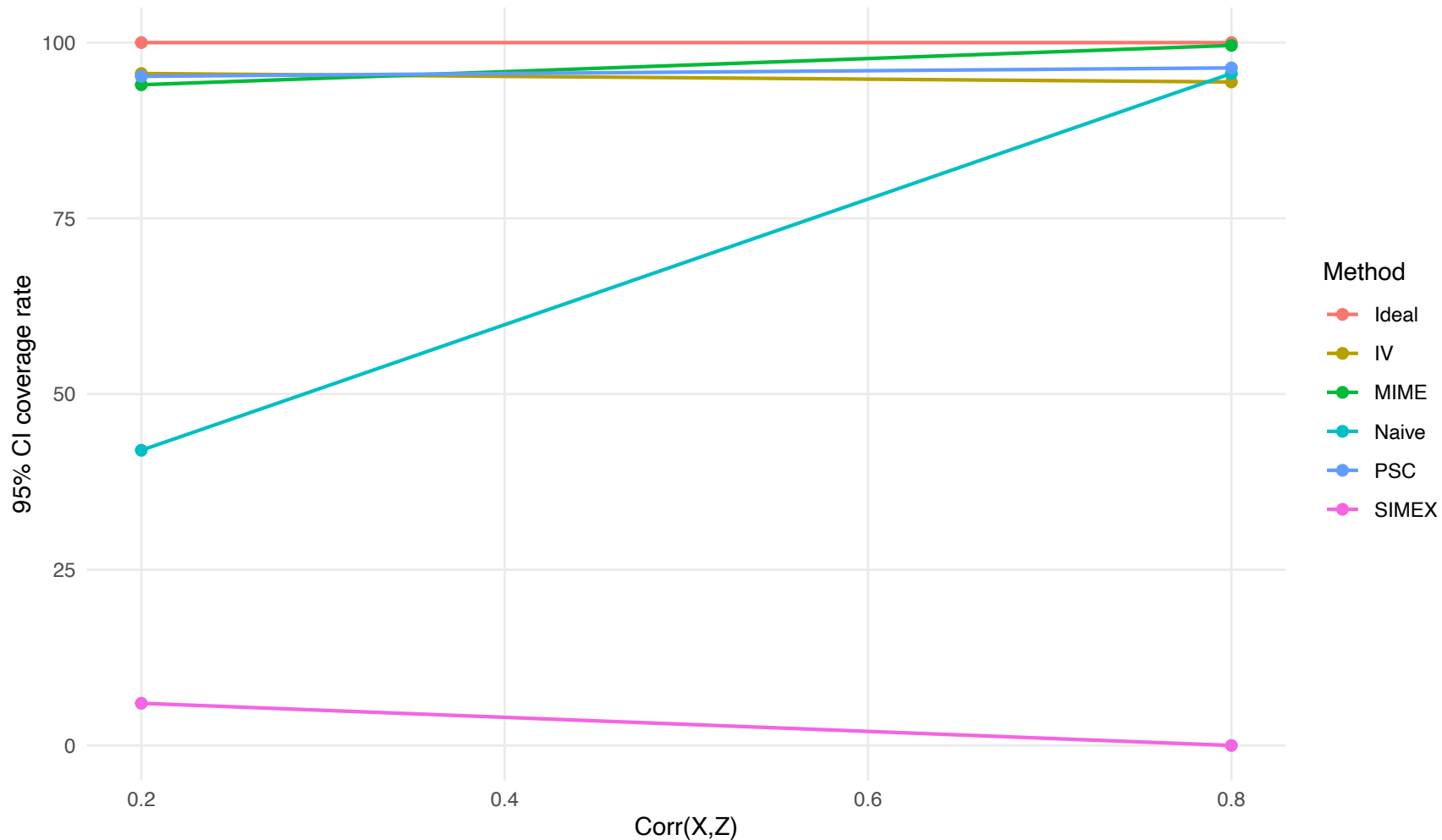
Varying  $\text{Corr}(X,Z)$



Error variance: 0.9, True ATE: 1, Sample size: 5000, Binary outcome: 0,  $\text{Corr}(X,V)$ : 0.5,  $\alpha$ : 0.25

# 95% CI coverage rate of ME correction methods

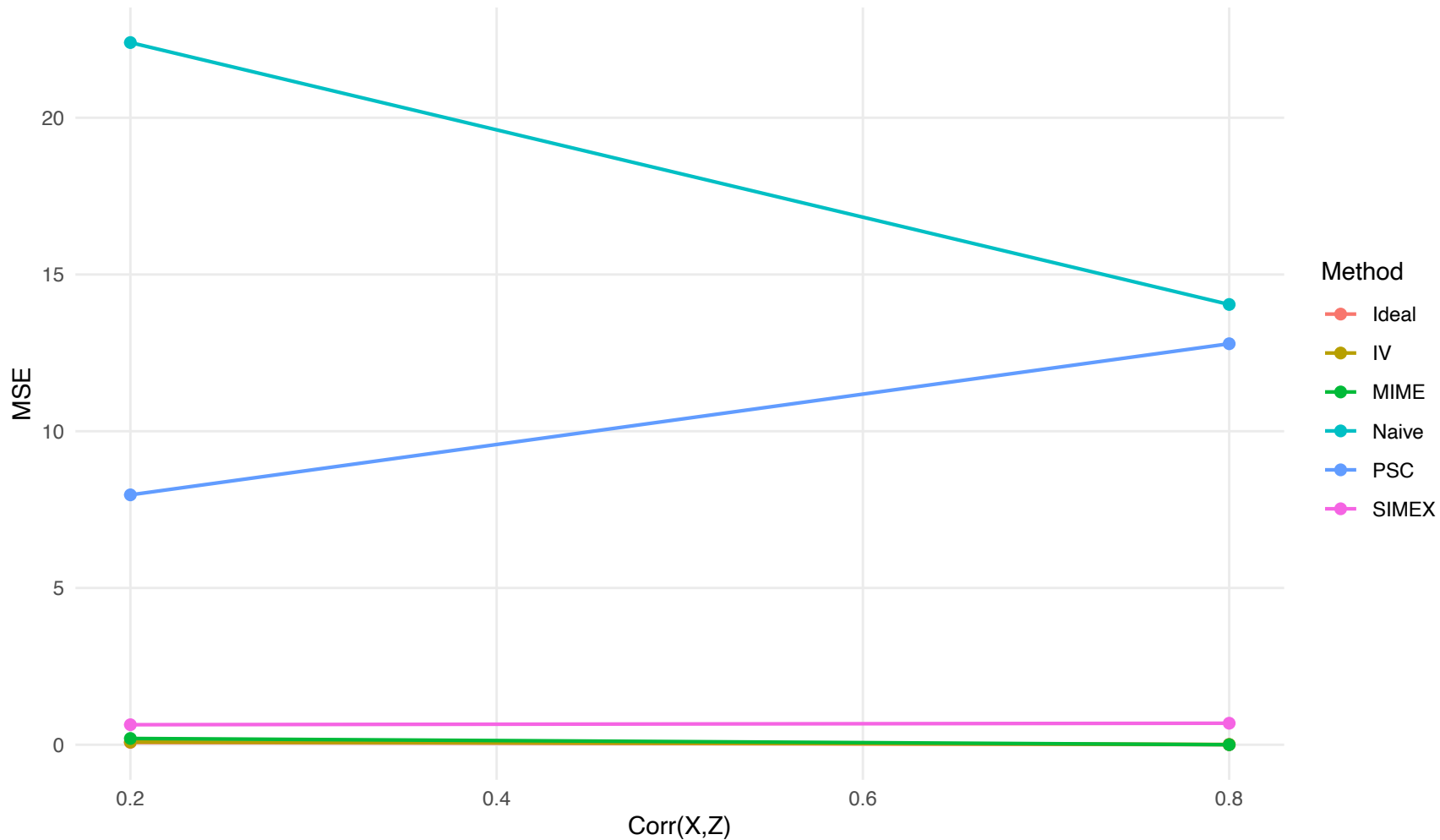
Varying  $\text{Corr}(X,Z)$



Error variance: 0.9, True ATE: 1, Sample size: 5000, Binary outcome: 0,  $\text{Corr}(X,V)$ : 0.5,  $\alpha$ : 0.25

# MSE of ME correction methods

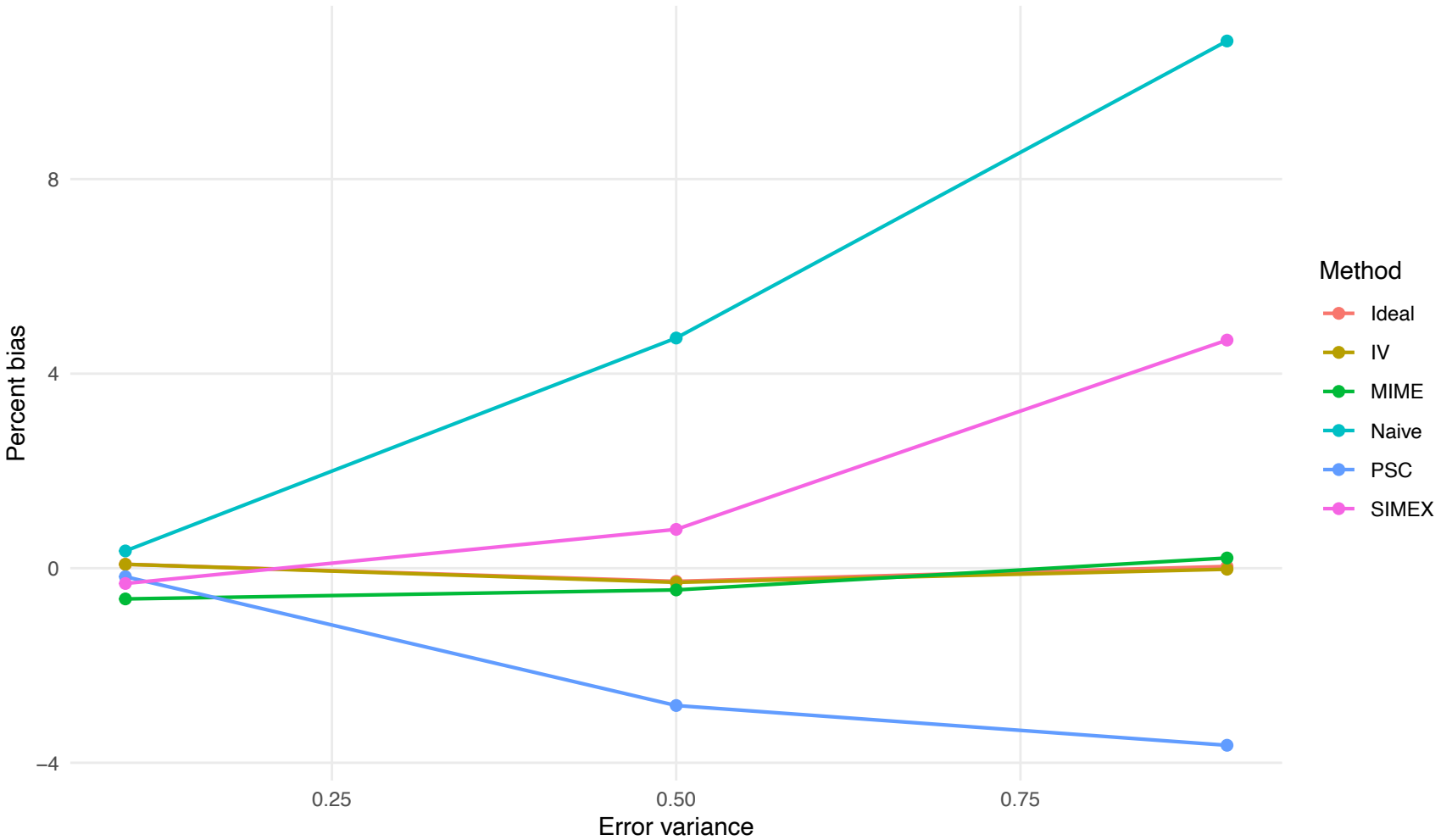
Varying  $\text{Corr}(X,Z)$



Error variance: 0.5, True ATE: 1, Sample size: 5000, Binary outcome: 0,  $\text{Corr}(X,V)$ : 0.5,  $\alpha$ : 0.25

# Percent bias of ME correction methods

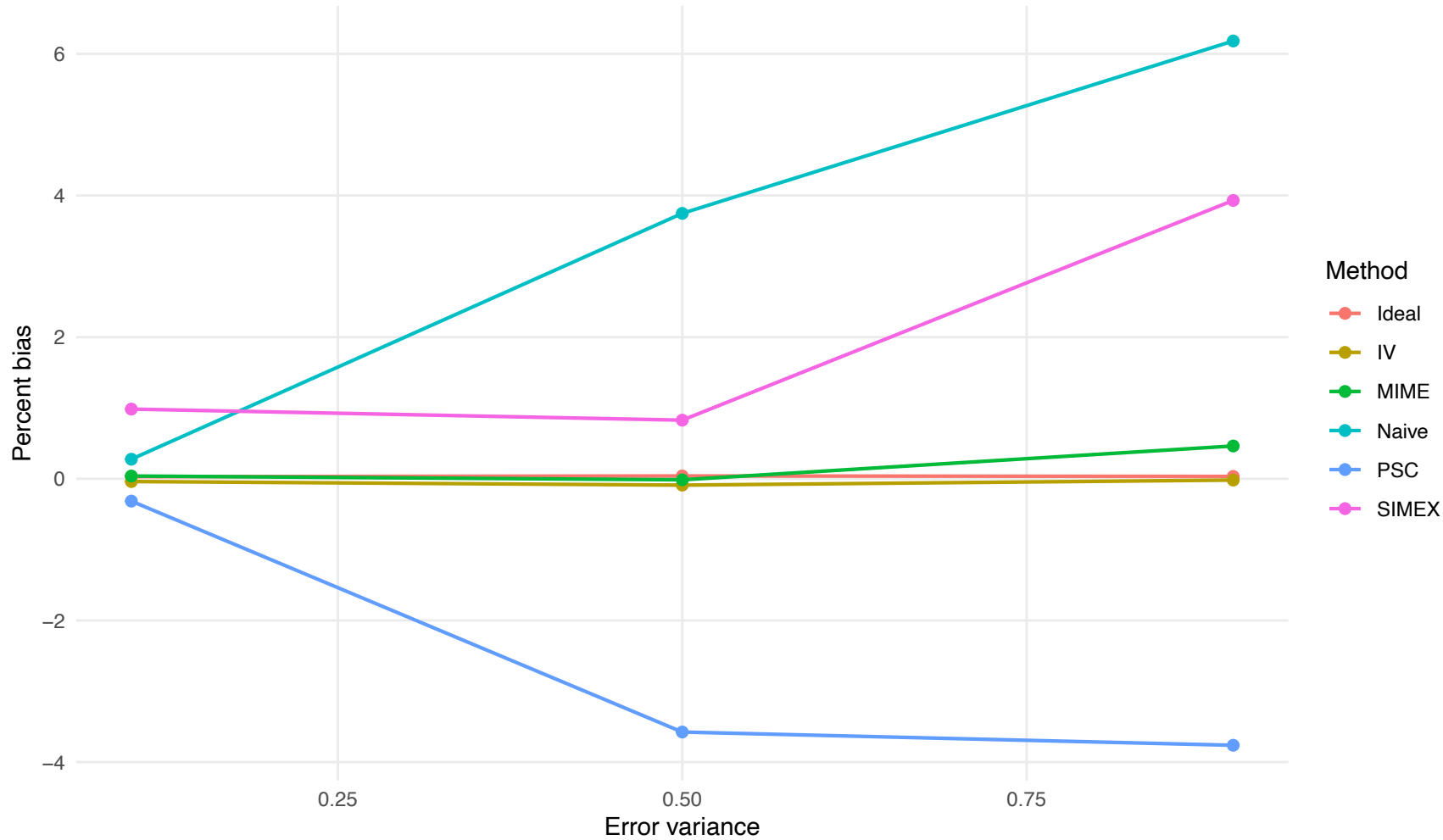
Varying Error variance



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

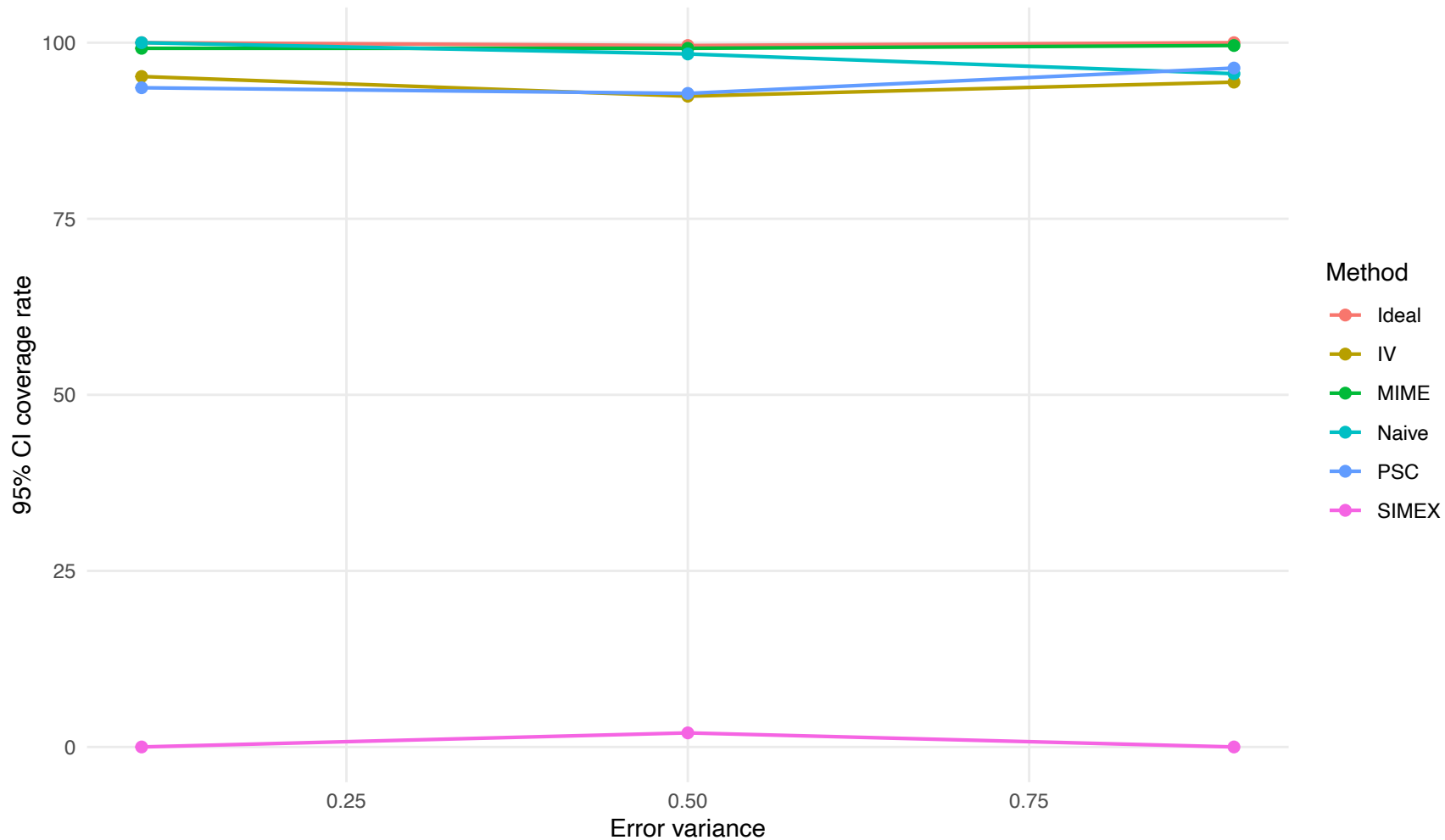
Varying Error variance



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

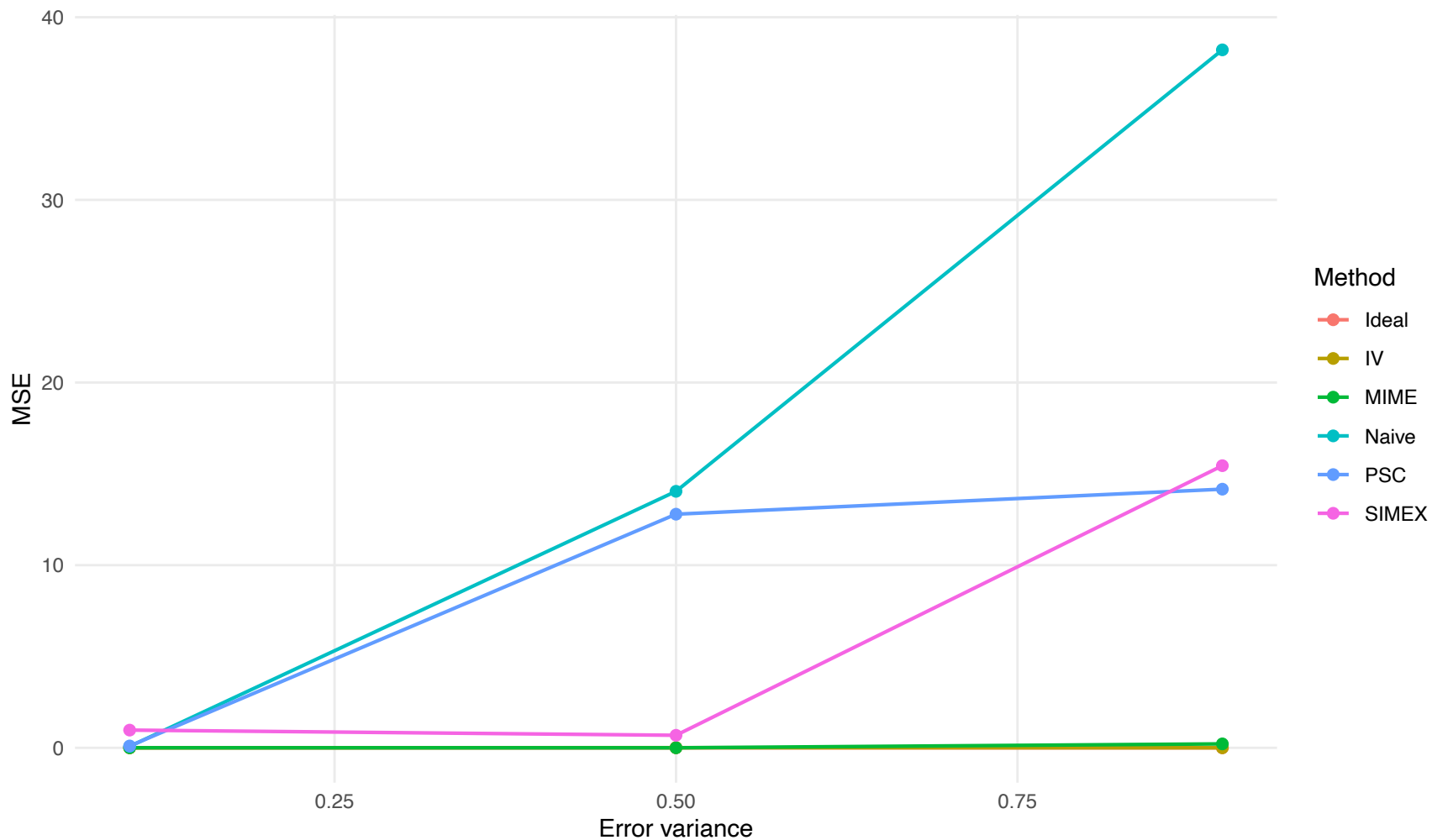


True ATE: 1, Sample size: 5000, Binary outcome: 0, Corr(X,Z): 0.8, Corr(X,V): 0.5, ax: 0.25



# MSE of ME correction methods

Varying Error variance



True ATE: 1, Sample size: 5000, Binary outcome: 0, Corr(X,Z): 0.8, Corr(X,V): 0.5, ax: 0.25