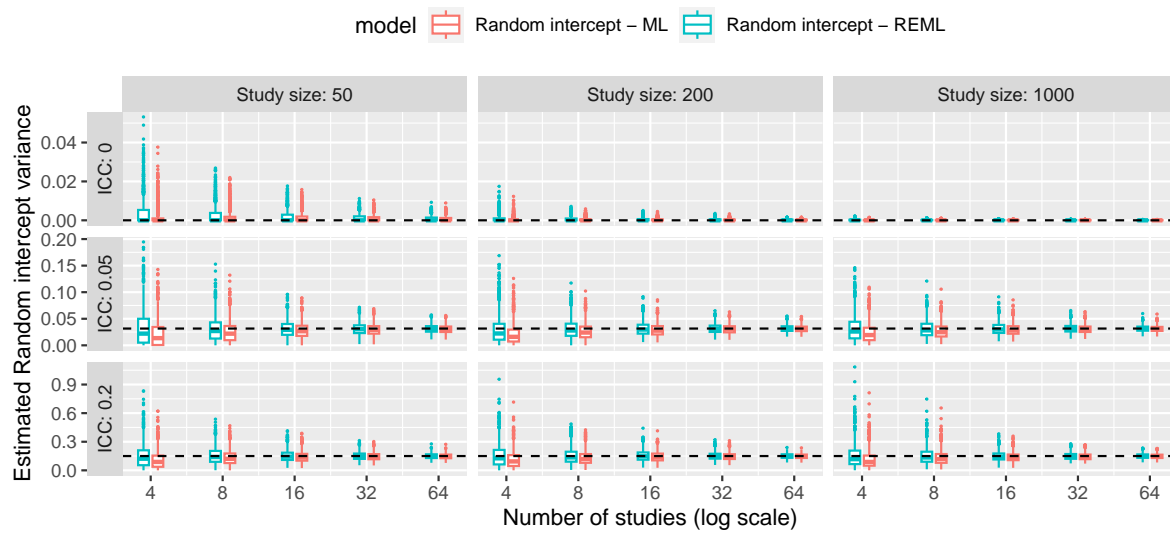


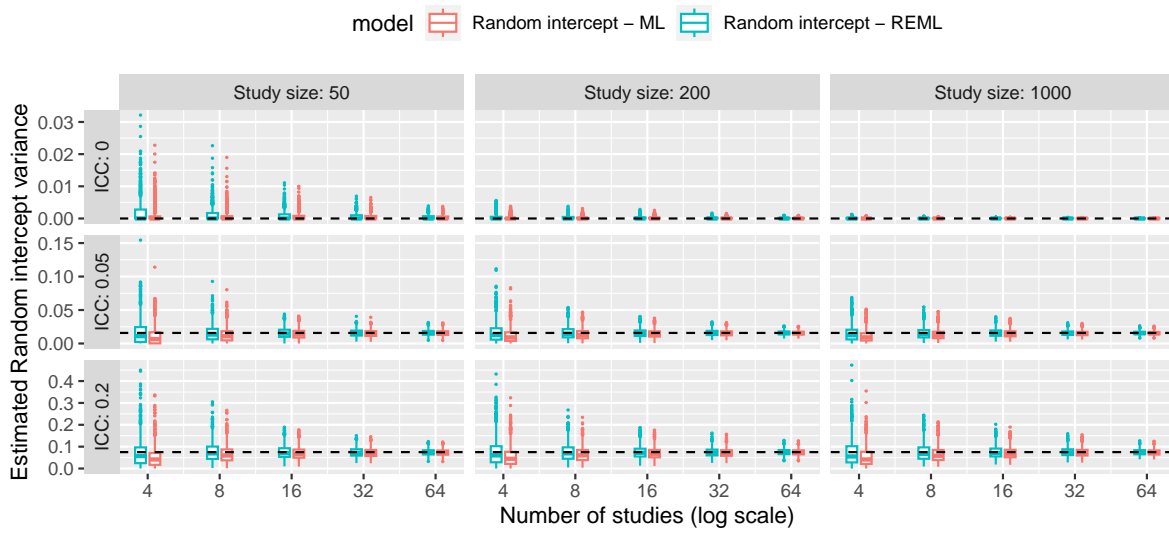
Prediction with new data for intercept - Supplementary material

Random intercept variance

Random intercept variance: R-squared = 0.4



Random intercept variance: R-squared = 0.7

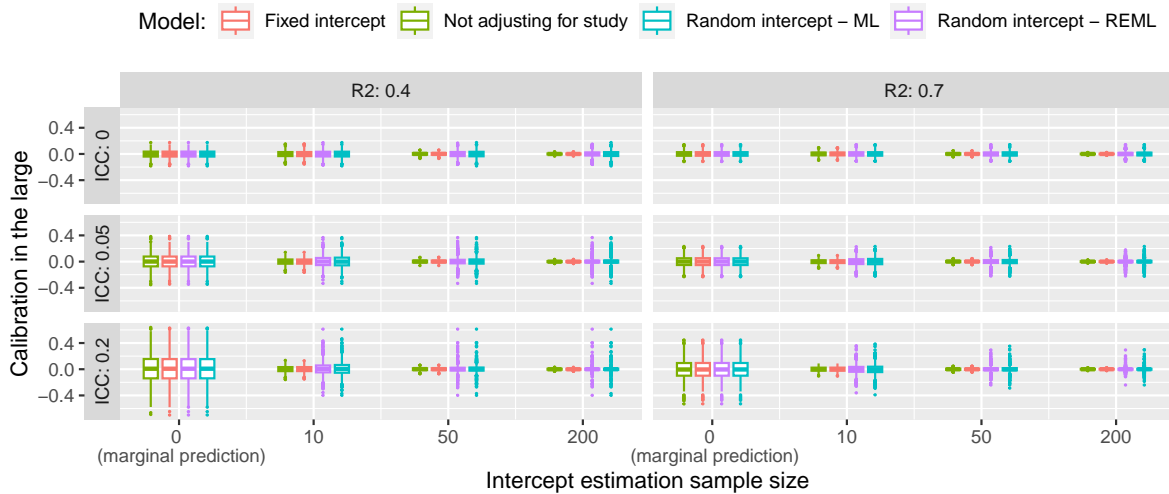


Calibration in the large

Estimates

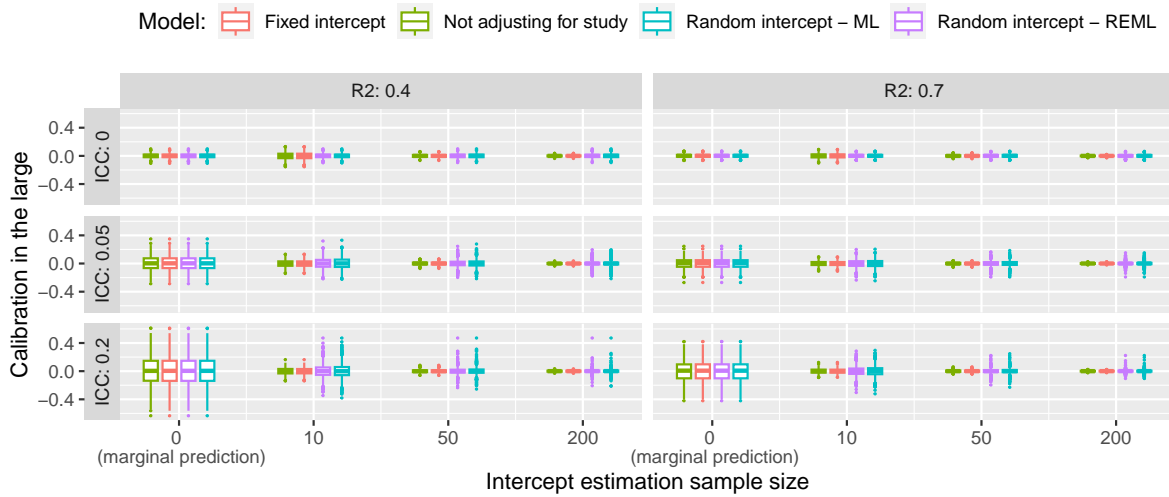
Calibration in the large

Training data: 4 studies of size 50



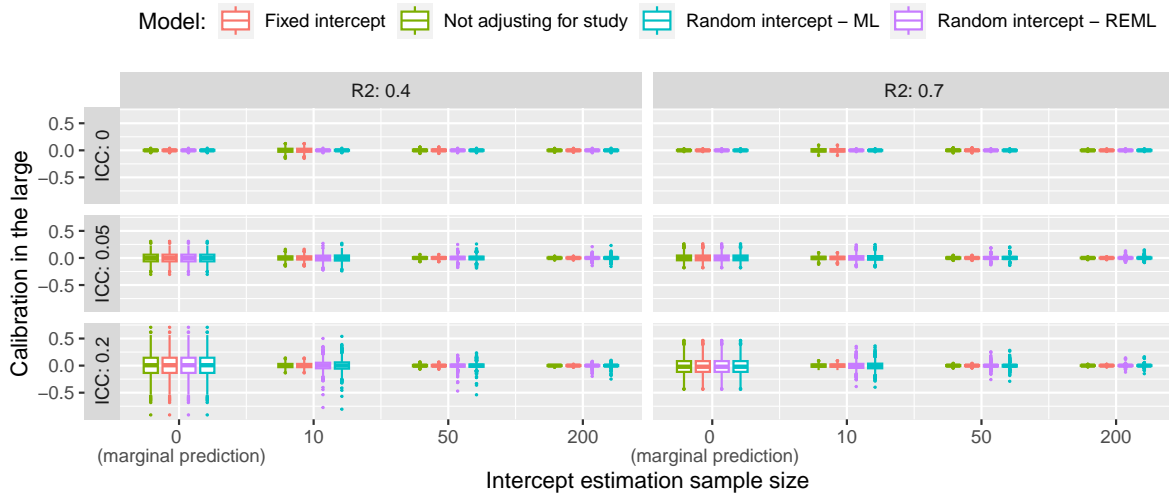
Calibration in the large

Training data: 4 studies of size 200



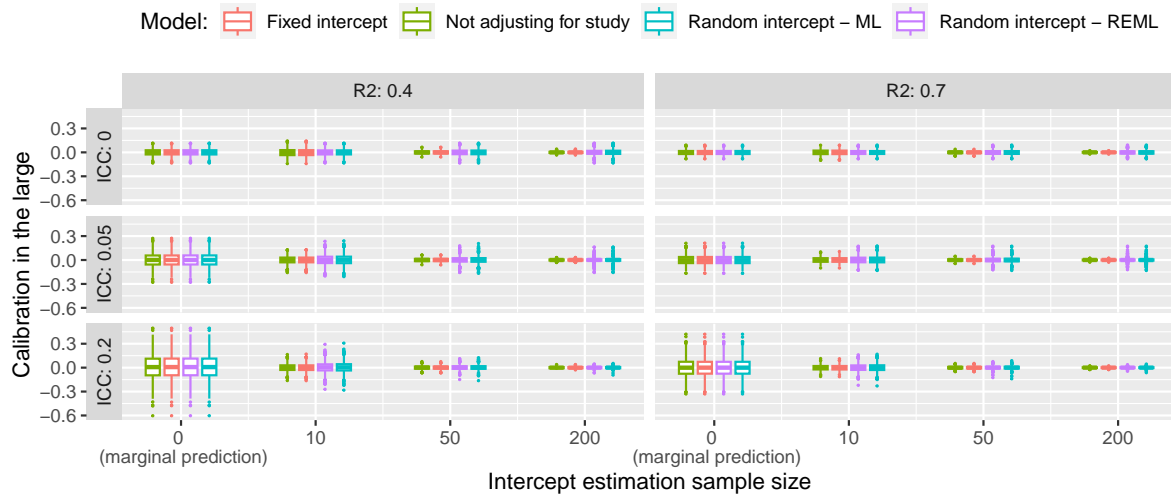
Calibration in the large

Training data: 4 studies of size 1000



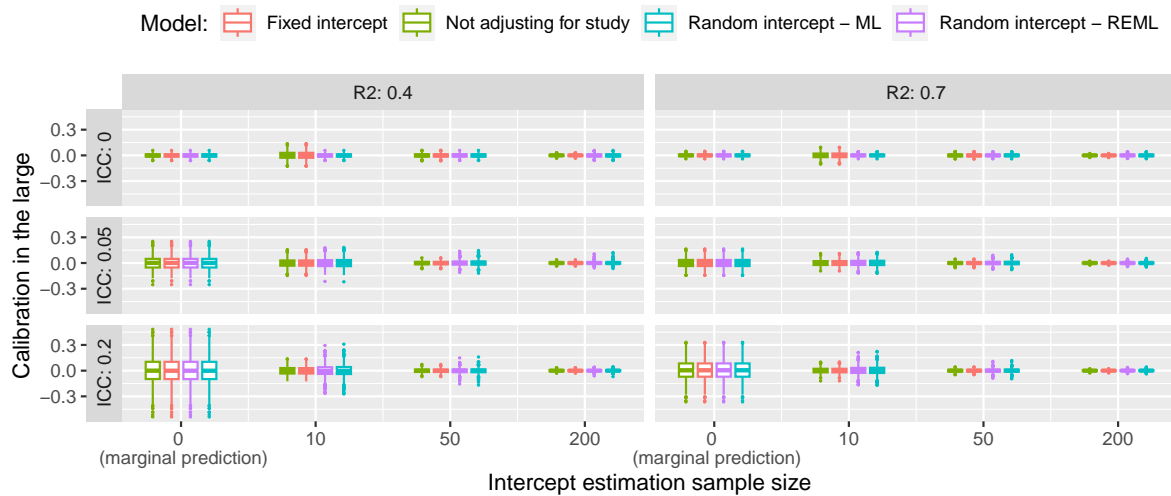
Calibration in the large

Training data: 8 studies of size 50



Calibration in the large

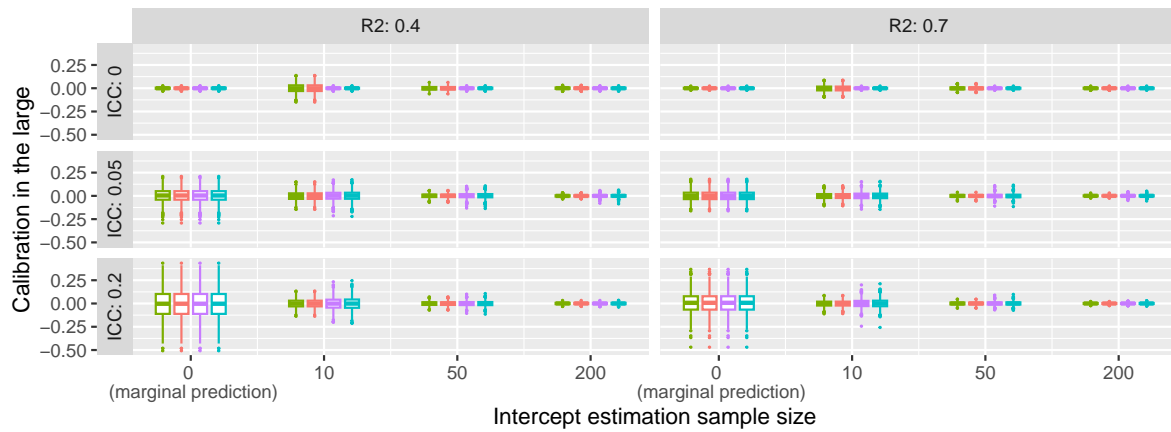
Training data: 8 studies of size 200



Calibration in the large

Training data: 8 studies of size 1000

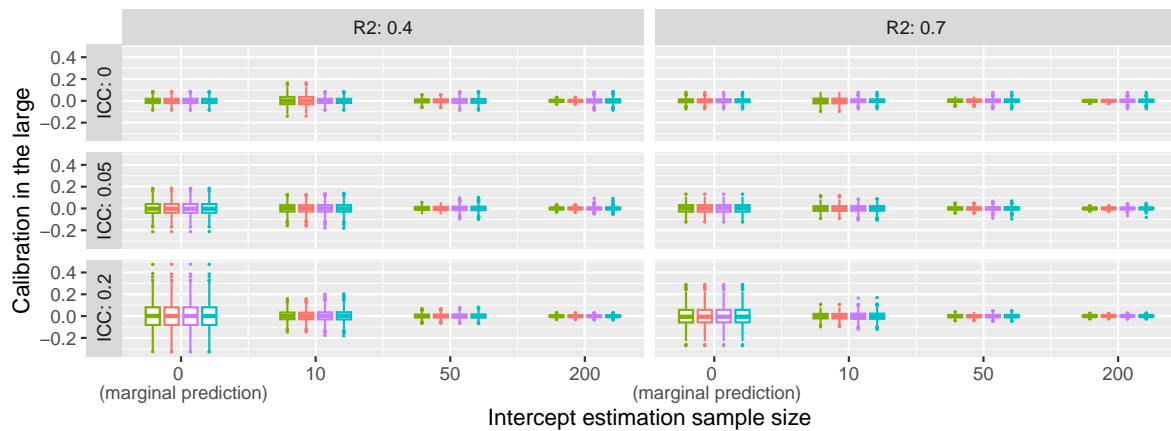
Model: ■ Fixed intercept ■ Not adjusting for study ■ Random intercept – ML ■ Random intercept – REML



Calibration in the large

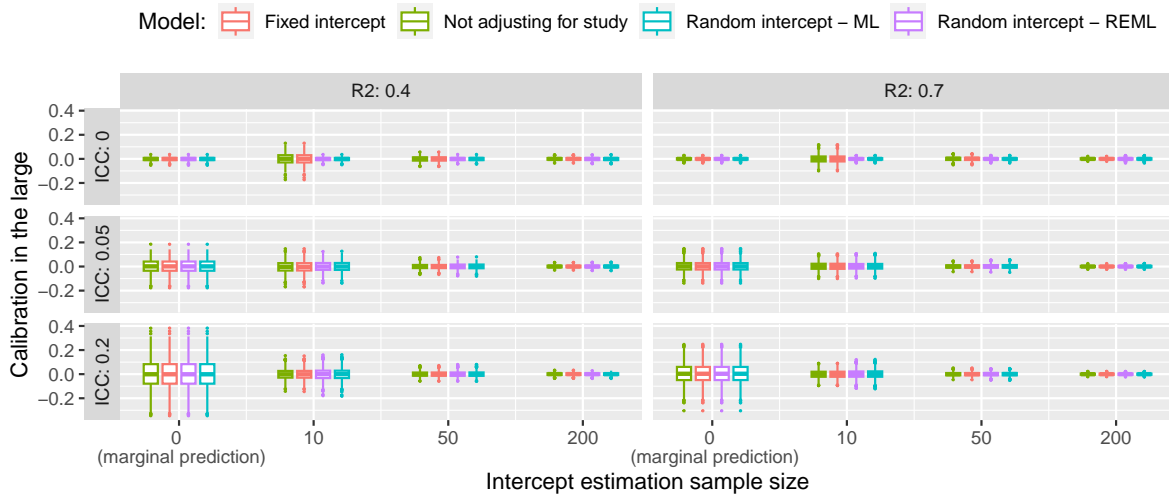
Training data: 16 studies of size 50

Model: ■ Fixed intercept ■ Not adjusting for study ■ Random intercept – ML ■ Random intercept – REML



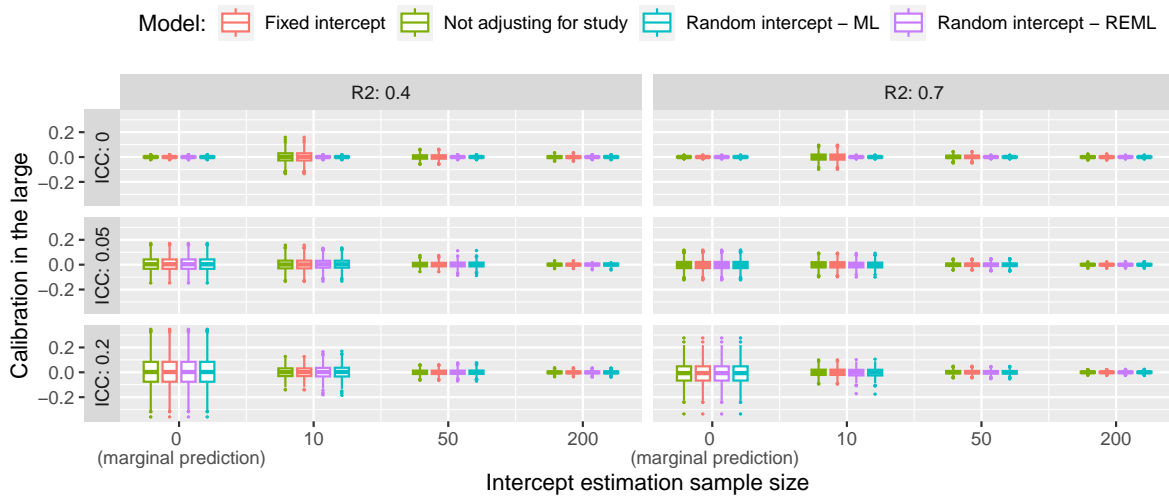
Calibration in the large

Training data: 16 studies of size 200



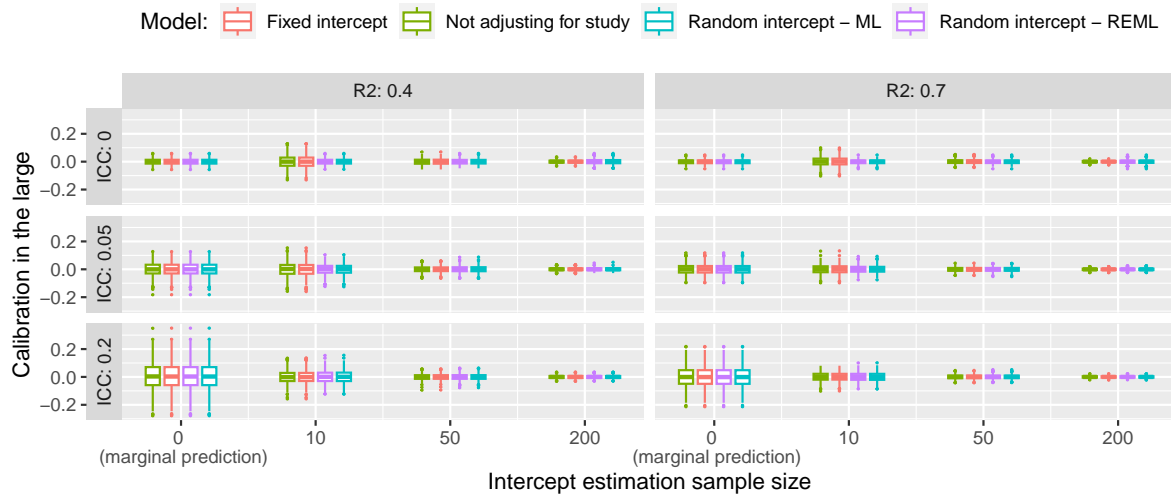
Calibration in the large

Training data: 16 studies of size 1000



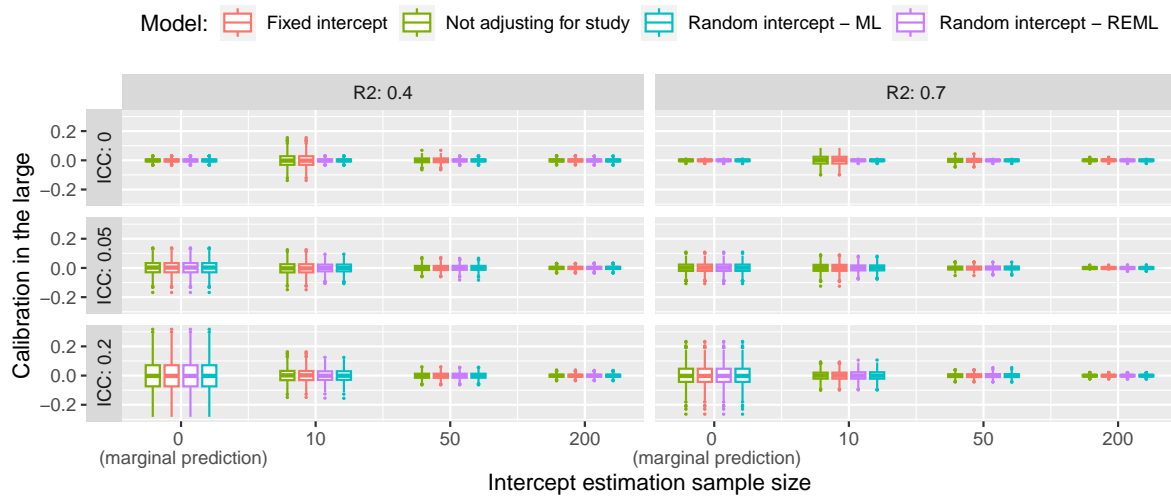
Calibration in the large

Training data: 32 studies of size 50



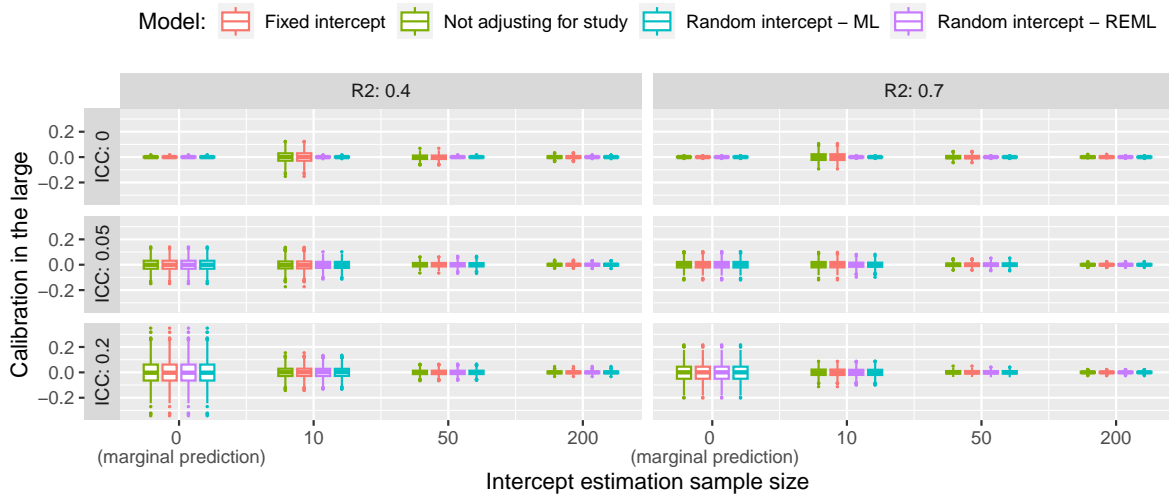
Calibration in the large

Training data: 32 studies of size 200



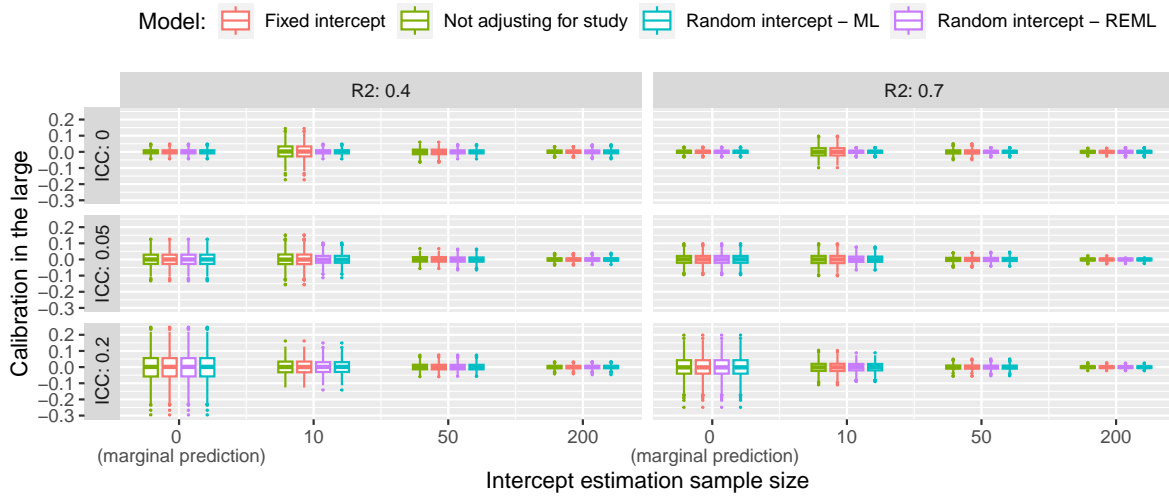
Calibration in the large

Training data: 32 studies of size 1000



Calibration in the large

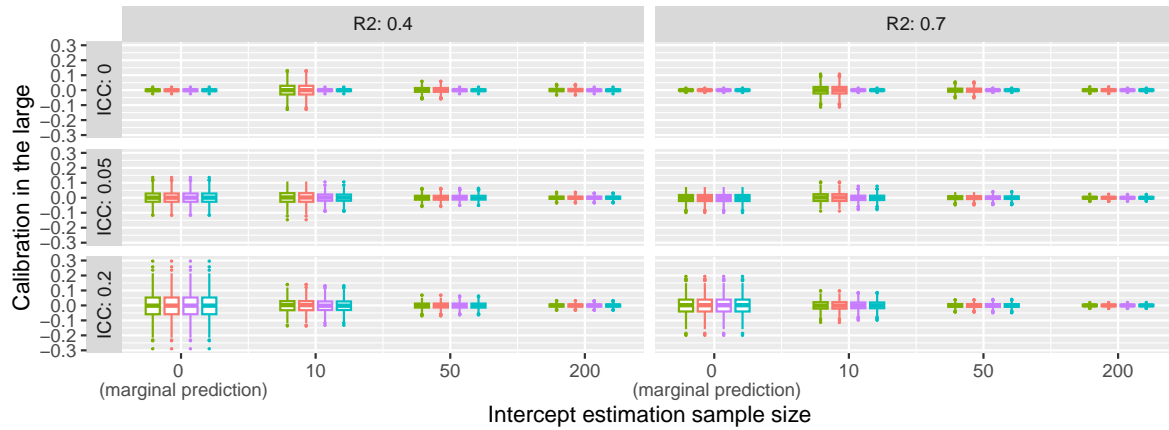
Training data: 64 studies of size 50



Calibration in the large

Training data: 64 studies of size 200

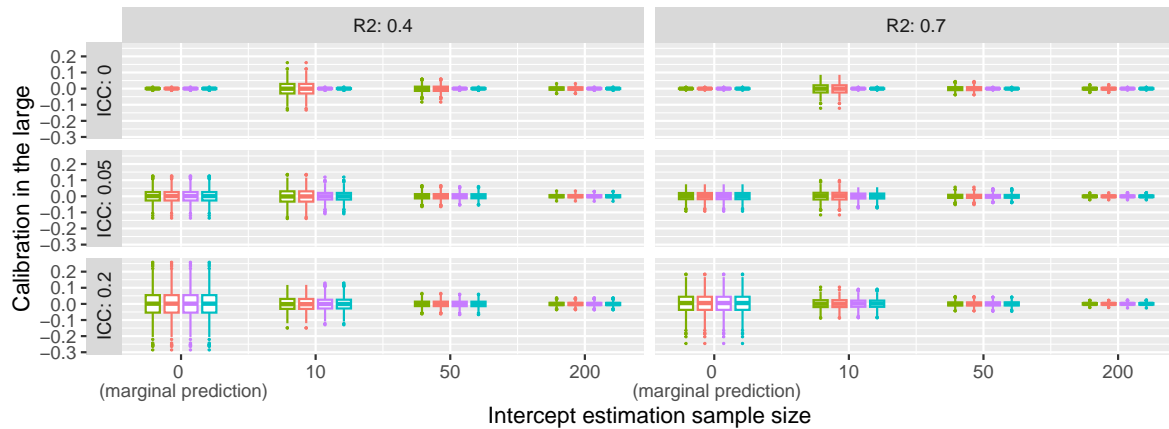
Model:  Fixed intercept  Not adjusting for study  Random intercept – ML  Random intercept – REML



Calibration in the large

Training data: 64 studies of size 1000

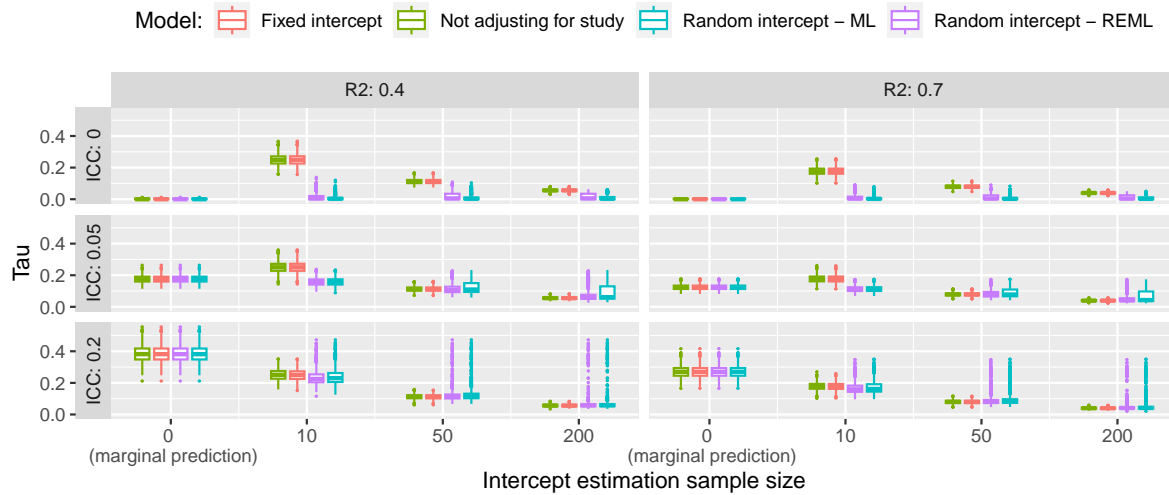
Model:  Fixed intercept  Not adjusting for study  Random intercept – ML  Random intercept – REML



Heterogeneity

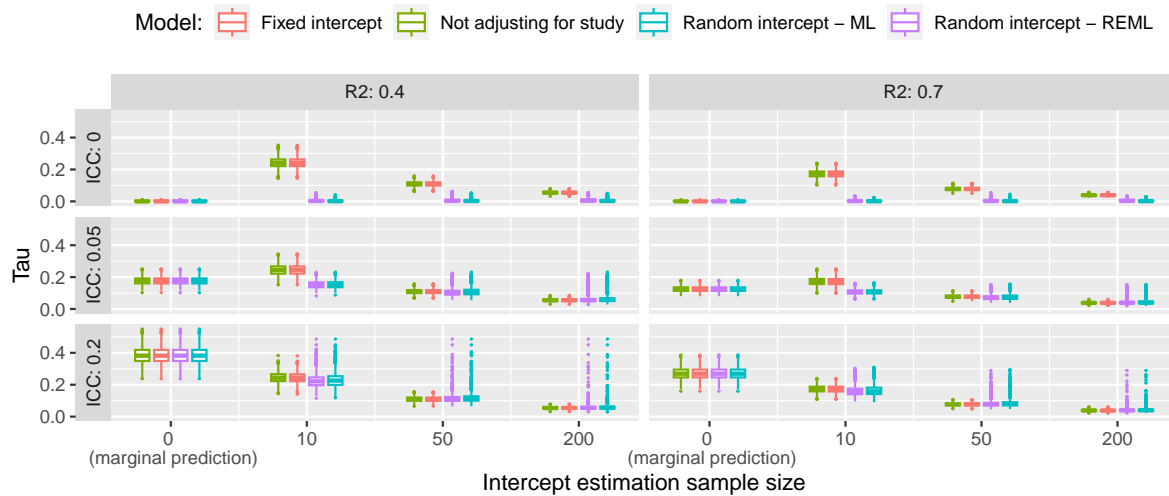
Heterogeneity in Calibration in the large

Training data: 4 studies of size 50



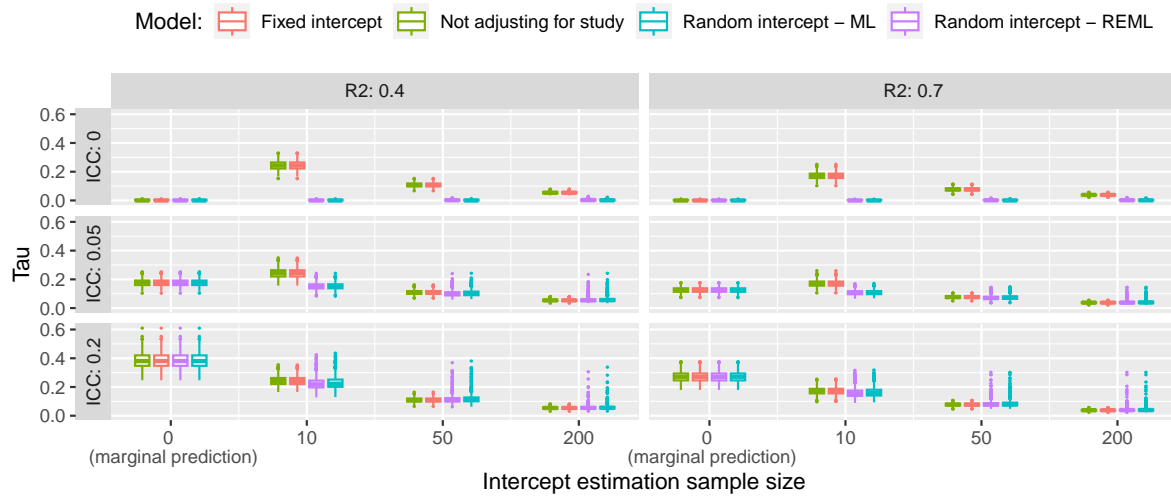
Heterogeneity in Calibration in the large

Training data: 4 studies of size 200



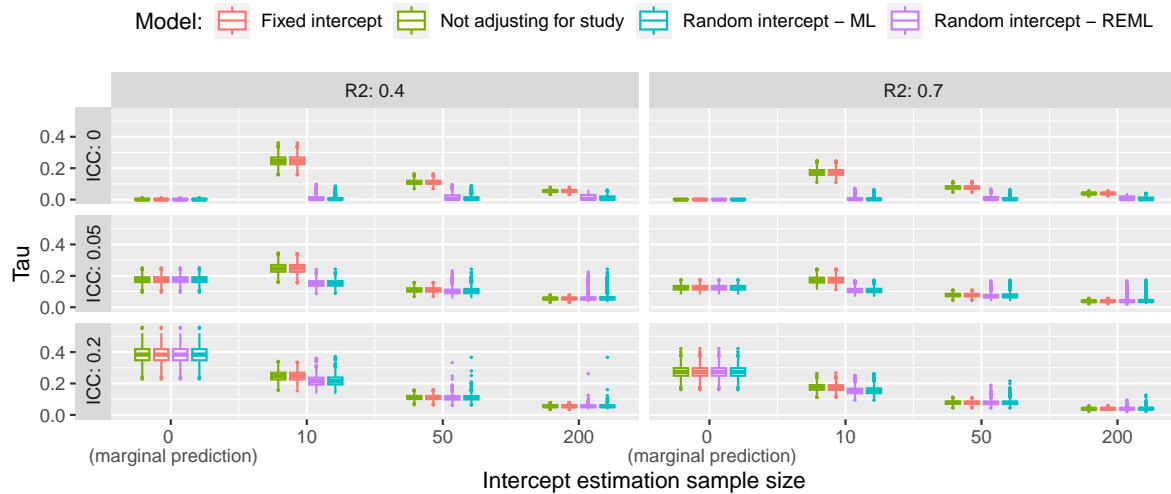
Heterogeneity in Calibration in the large

Training data: 4 studies of size 1000



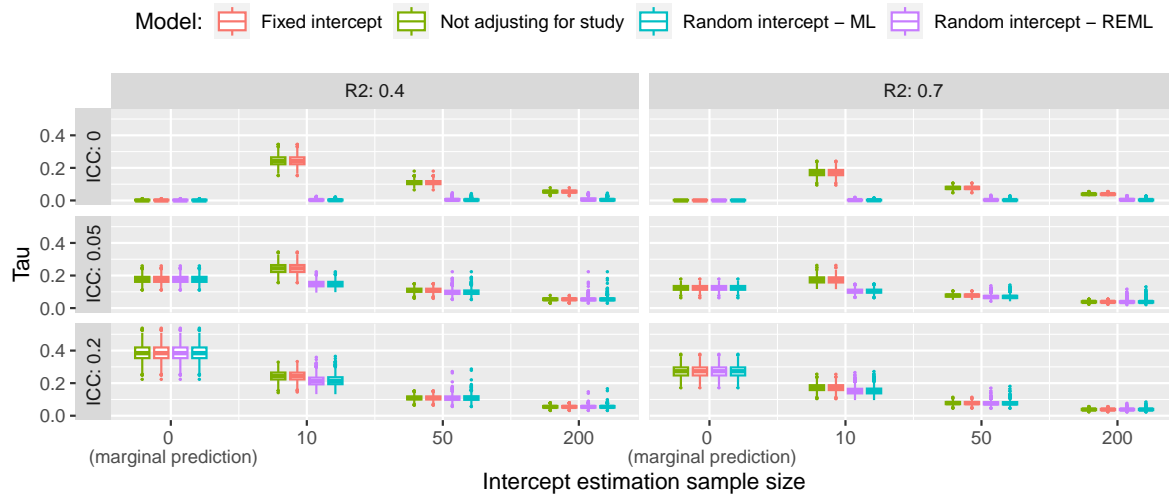
Heterogeneity in Calibration in the large

Training data: 8 studies of size 50



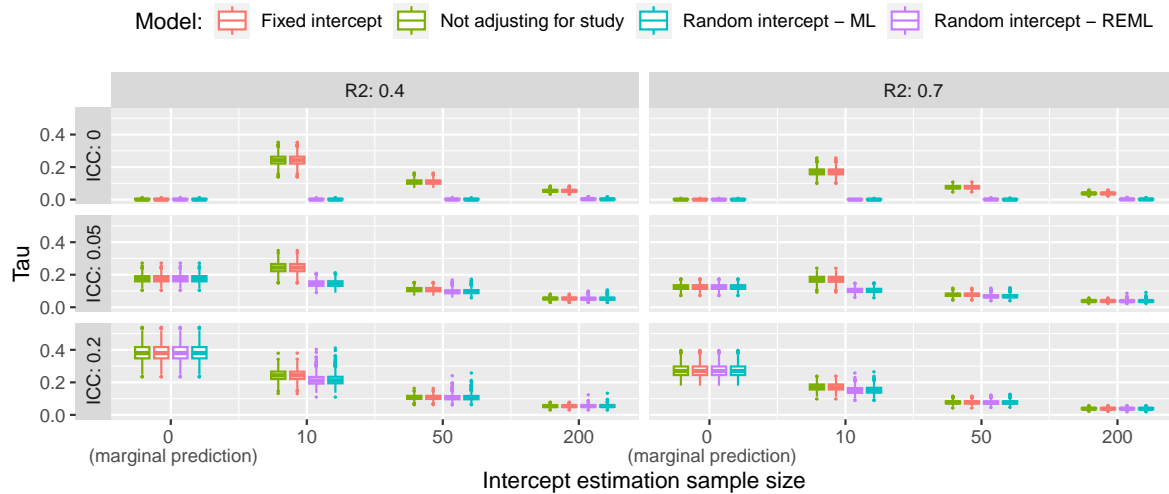
Heterogeneity in Calibration in the large

Training data: 8 studies of size 200



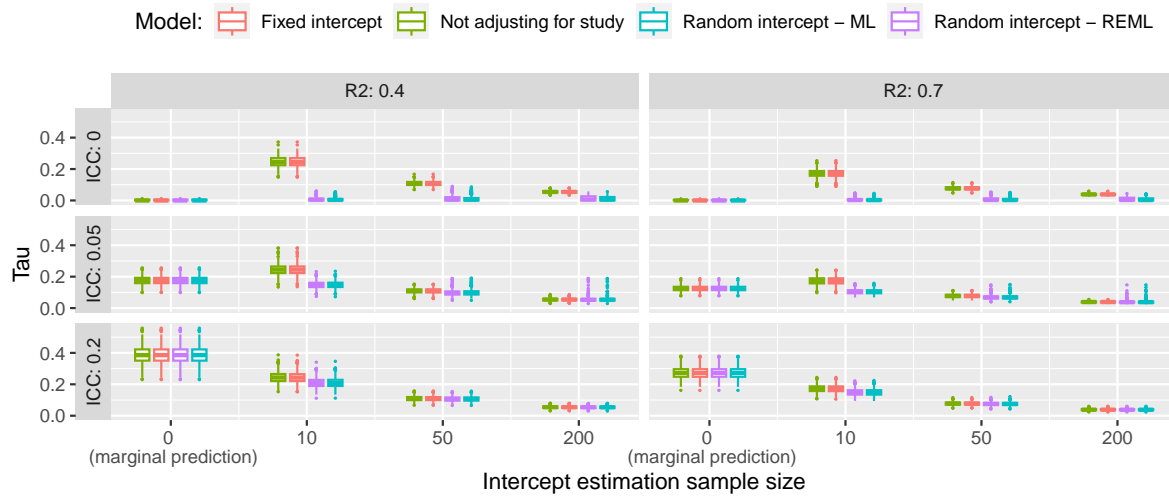
Heterogeneity in Calibration in the large

Training data: 8 studies of size 1000



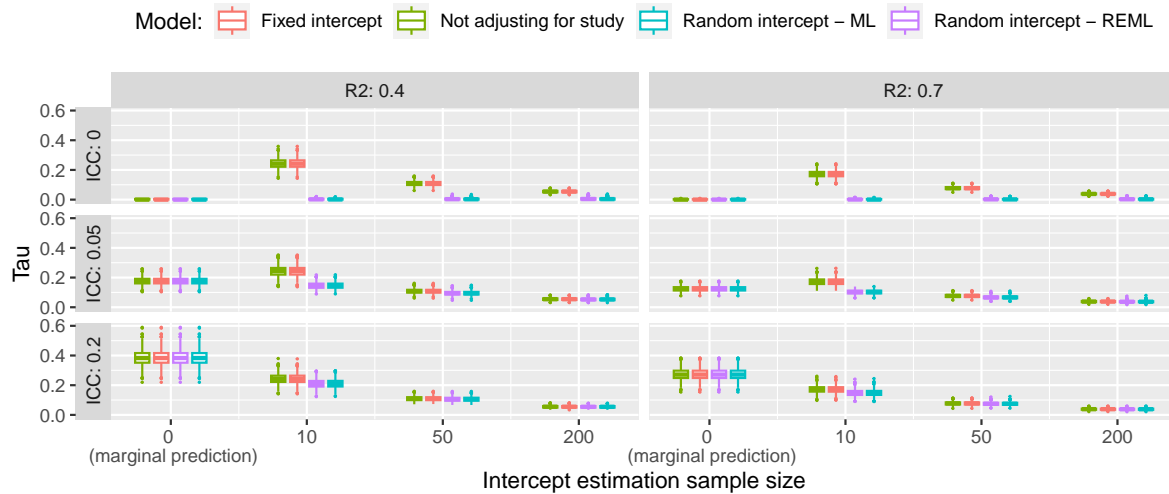
Heterogeneity in Calibration in the large

Training data: 16 studies of size 50



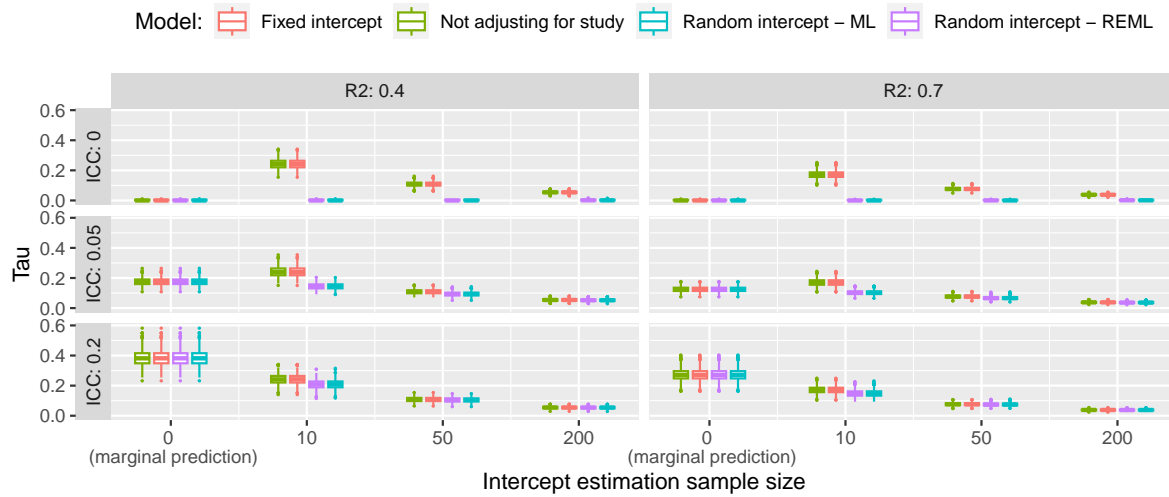
Heterogeneity in Calibration in the large

Training data: 16 studies of size 200



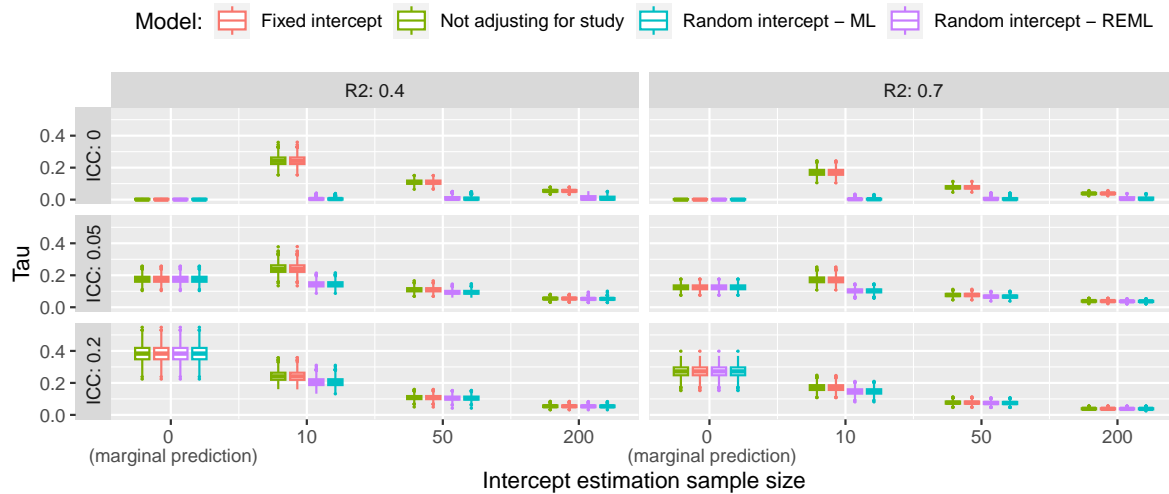
Heterogeneity in Calibration in the large

Training data: 16 studies of size 1000



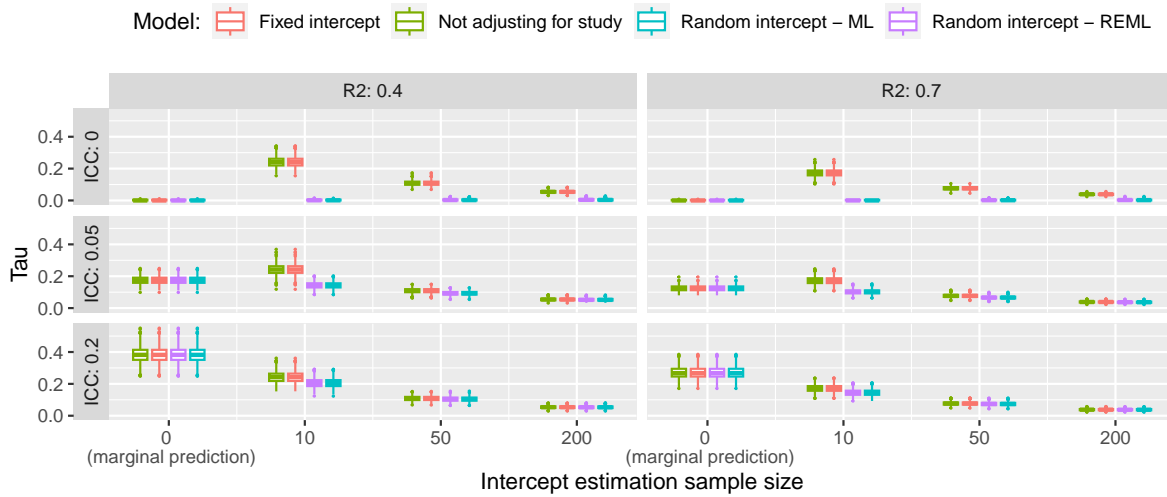
Heterogeneity in Calibration in the large

Training data: 32 studies of size 50



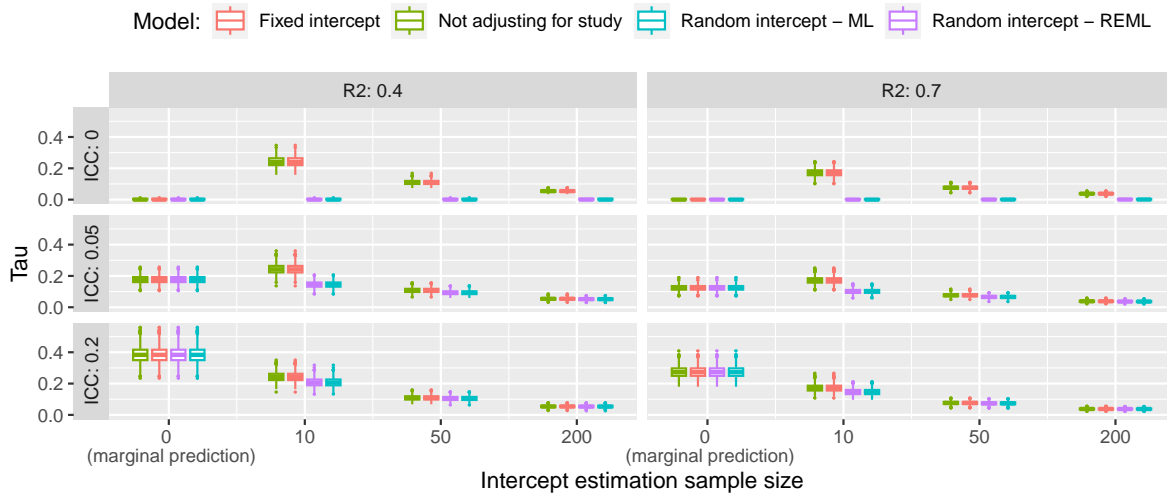
Heterogeneity in Calibration in the large

Training data: 32 studies of size 200



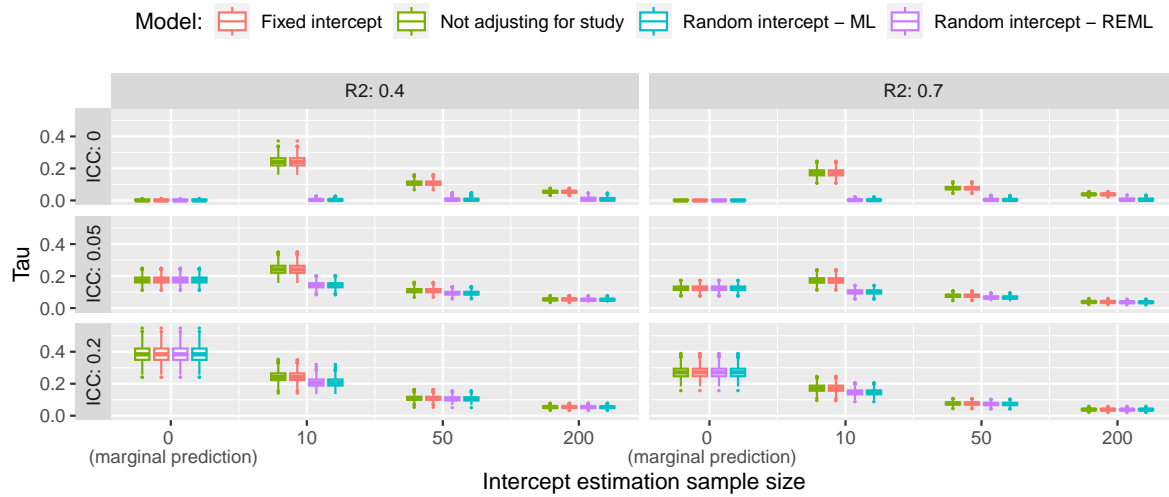
Heterogeneity in Calibration in the large

Training data: 32 studies of size 1000



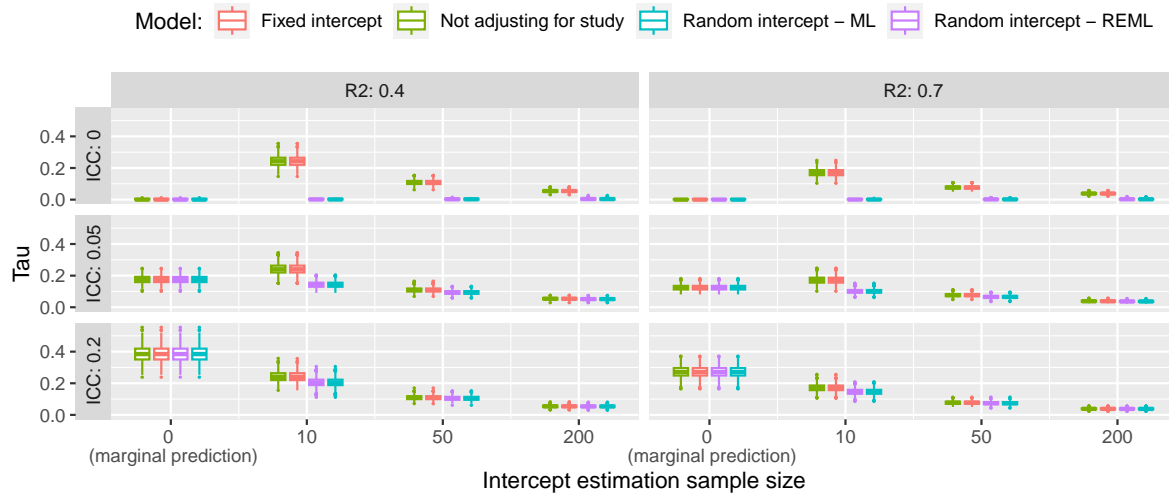
Heterogeneity in Calibration in the large

Training data: 64 studies of size 50



Heterogeneity in Calibration in the large

Training data: 64 studies of size 200



Heterogeneity in Calibration in the large

Training data: 64 studies of size 1000

Model: ■ Fixed intercept ■ Not adjusting for study ■ Random intercept – ML ■ Random intercept – REML

