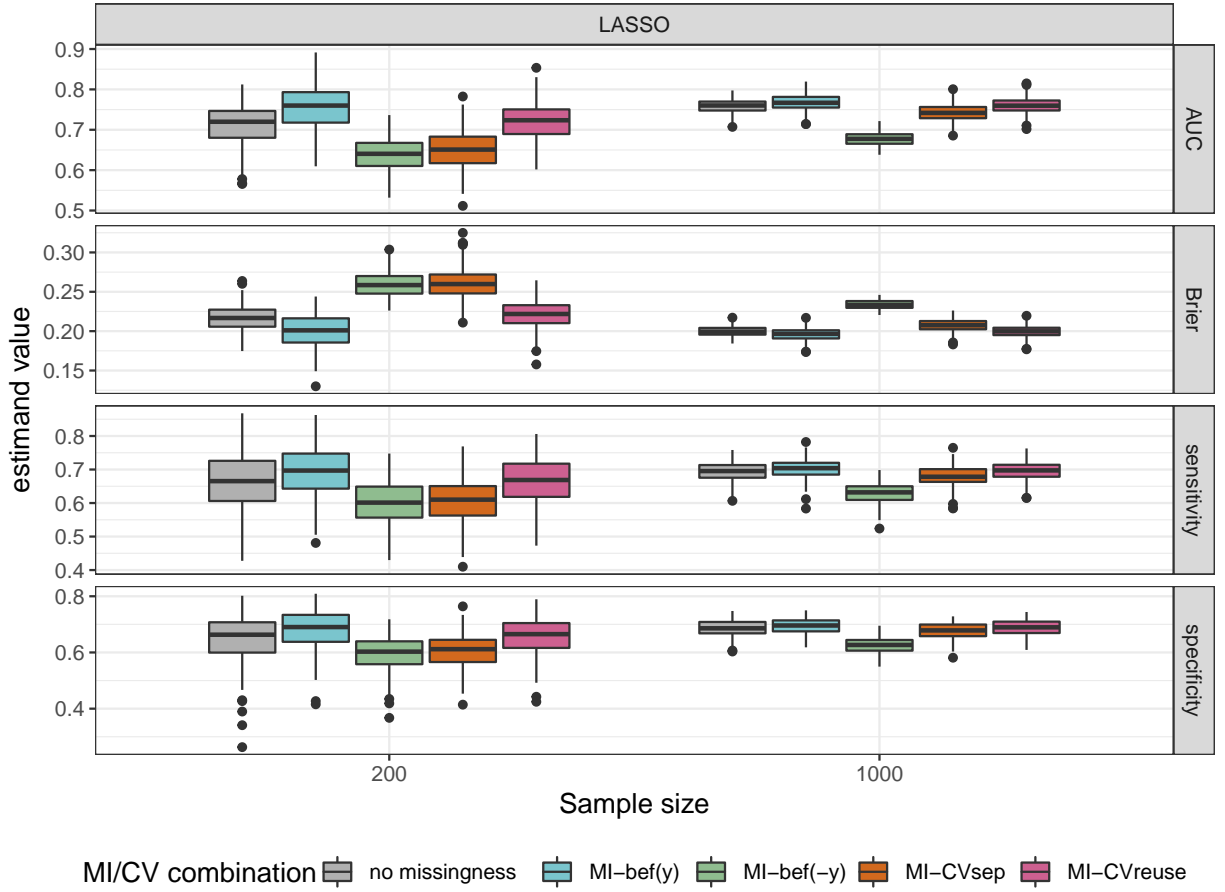


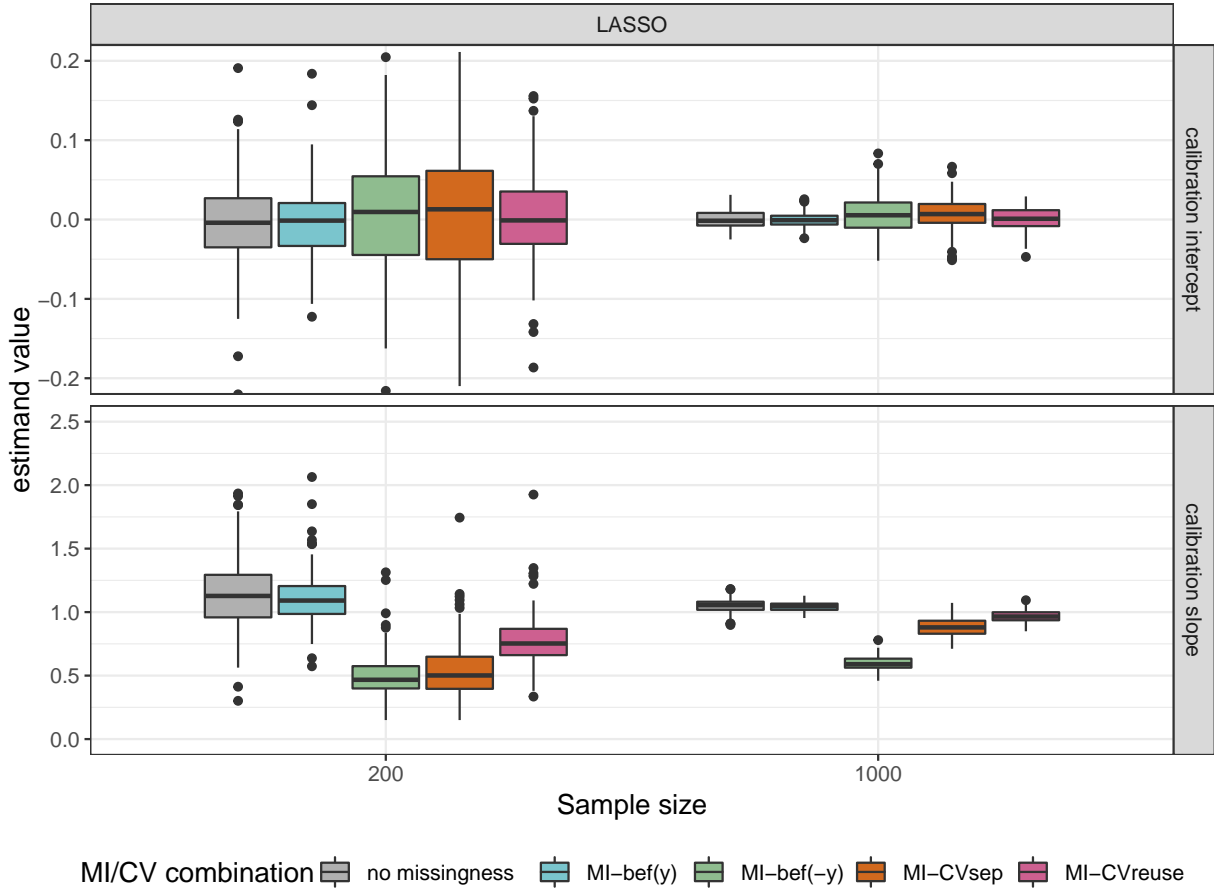
How to validate regularized regression models on incomplete data

Paulina von Stackelberg

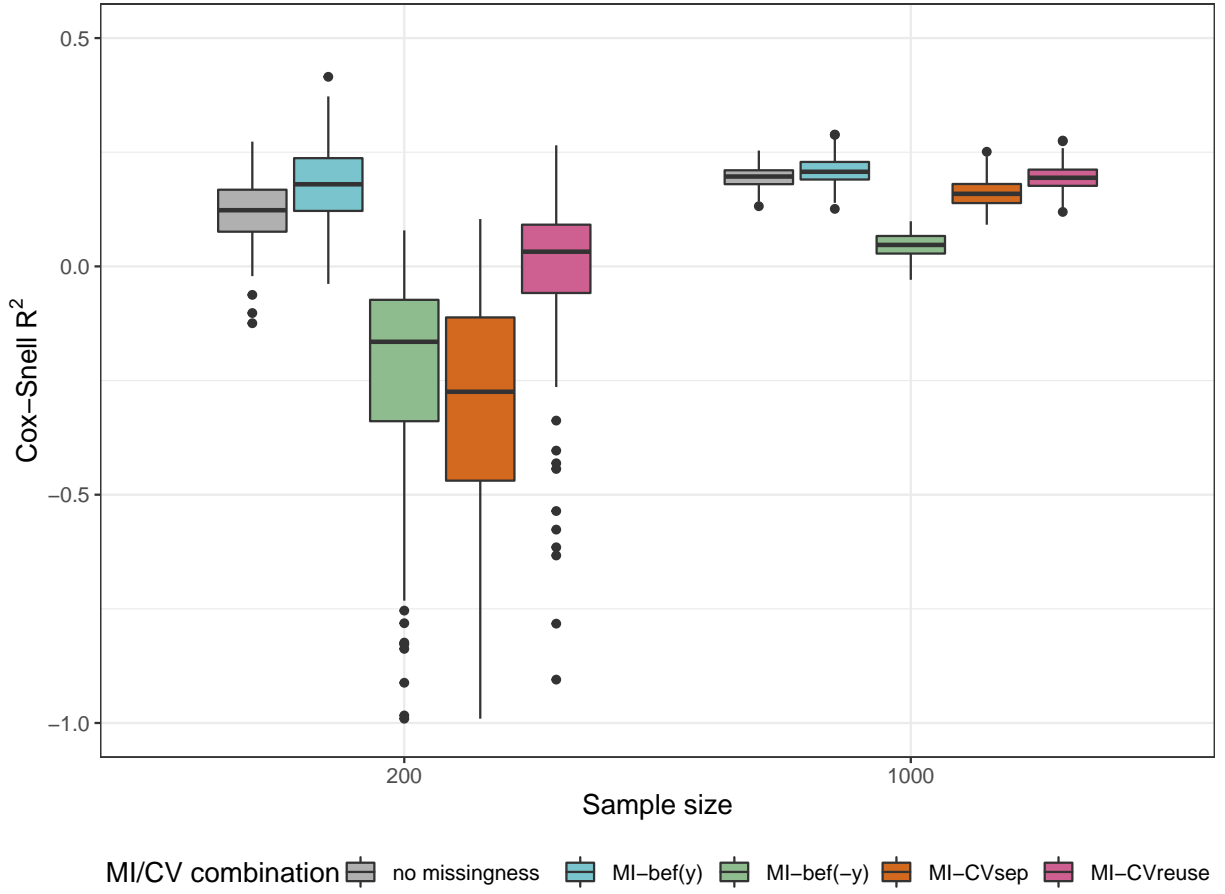
Additional file 1: Supplementary figures



S 1: The influence of sample size on the variance and bias of AUC, Brier scores, sensitivity and specificity. The model (LASSO), missingness proportion ($p_{mis} = 0.75$), number of covariates ($p = 20$), and missingness mechanism (MAR) are fixed.



S 2: The influence of sample size on the variance and bias of the calibration slopes and intercepts. The model (LASSO), missingness proportion ($p_{mis} = 0.75$), number of covariates ($p = 20$), and missingness mechanism (MAR) are fixed.



S 3: The influence of sample size on the bias and variance of R^2_{CS} . The model (LASSO), missingness proportion ($p_{mis} = 0.75$), number of covariates ($p = 20$), and missingness mechanism (MAR) are fixed.