- Using the sandwich standard error estimators does not make much difference.
- Did simulations with a simplified setting:
  - o  $X \sim N(0, 1)$ ; Logit(P(Y=1)) = 1 + 2 \* X
  - External X ~ N(0,1); Logit(P(External Y=1)) = 0.5 + 1.5 \* X
  - Fit the model using X and Y. With the fitted model, predict External Y based on External X.
  - o Sample size = 10,000; replicate 1,000 times.
  - Extract the formula based and Monte-Carlo based standard errors of calibration slope and intercept.
  - Calibration slope:
    - Mean value of formula based SE = 0.01656
    - Median value of formula based SE = 0.01656
    - Mean value of sandwich formula based SE = 0.01657
    - MC based SE = 0.02337
  - Calibration intercept:
    - Mean value of formula based SE = 0.02603
    - Median value of formula based SE = 0.02602
    - Mean value of sandwich formula based SE = 0.02830
    - MC based SE = 0.03844