0.70 bias(
$$\hat{\beta}_{MLE}$$
) = $E[\hat{\beta}_{MLE}] - \beta^*$
0.65 0.60 $E[\hat{\beta}_{Firth}]$
0.50 $E[\hat{\beta}_{Firth}]$
1 2 3 4 5 6 7 8 9 10 Sample Size (N)