

Step 4. Estimation and Inference using TMLE + SL

Case study 1: Data analysis

- Analyze study data
 - Outcome regression: Lasso with expert-selected covariates forced in
 - PS: Collaborative control Outcome-adaptive lasso (CC-OAL)
 - force in covariates selected in the outcome, others as candidates
 - C-TMLE to choose L1 norm
- Result: RD = 0.005 (95% CI: -0.027, 0.038)
crude RD = 0.024 (95% CI: 0.018, 0.030)

*Crude estimate indicates NSAIDS increase risk for AKI
Adjustment moves point estimate towards the null*