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RCTs Augmented with External Controls Ex. Semaglutide and Major Adverse Cardiovascular Event (MACE)

- Objective: Potentially augment control arm while controlling Type 1 error
- Pioneer 6 RCT
- Optum observational data
- Experiment-Selector CV-TMLE
- Select experiment (RCT only or RCT with RWD) that optimizes bias-variance tradeoff
- Separate experiment-selection from effect estimation using cross-validation
- Integrates negative control outcomes



Husain et al. (2019)



