Simulations

Michael Seo

16 August 2019

## Simulation 1

## false em mse true em mse treatment mse  
## glmm oracle 0.000000000 0.002907829 0.01154284  
## glmm full 0.003197482 0.003371513 0.01155221  
## naive step 0.001934953 0.003207245 0.01166078  
## naive lasso 0.000611552 0.004246812 0.01159456  
## glmmLasso 0.003212906 0.003381281 0.01157903  
## patient specific trt mse continuous EM se binary EM se  
## glmm oracle 0.008720227 0.05302434 0.05287569  
## glmm full 0.020173163 0.05915827 0.05388618  
## naive step 0.015956222 0.05450465 0.05338846  
## naive lasso 0.012176780 0.05802670 0.05521758  
## glmmLasso 0.020246789 NaN NaN  
## treatment se  
## glmm oracle 0.10055944  
## glmm full 0.10048636  
## naive step 0.05311881  
## naive lasso 0.05369296  
## glmmLasso NaN

## false em mse true em mse treatment mse patient specific trt mse  
## bayesLASSO 0.001734159 0.003379562 0.01156056 0.01531423  
## SSVS 0.000830747 0.003102963 0.01157033 0.01193015  
## continuous EM se binary EM se treatment se  
## bayesLASSO 0.05807285 0.05416874 0.1579484  
## SSVS 0.05679937 0.05275621 0.1580877

## Simulation 2

## false em mse true em mse treatment mse  
## glmm oracle 0.0000000000 0.002907829 0.01154284  
## glmm full 0.0031974821 0.003371513 0.01155221  
## naive step 0.0019349526 0.003207245 0.01166078  
## naive lasso 0.0006132072 0.004245815 0.01159415  
## glmmLasso 0.0032129058 0.003381281 0.01157903  
## patient specific trt mse continuous EM se binary EM se  
## glmm oracle 0.008720226 0.05302434 0.05287569  
## glmm full 0.020173163 0.05915827 0.05388618  
## naive step 0.015956222 0.05450465 0.05338846  
## naive lasso 0.012182571 NaN NaN  
## glmmLasso 0.020246789 NaN NaN  
## treatment se  
## glmm oracle 0.10055940  
## glmm full 0.10048638  
## naive step 0.05311881  
## naive lasso NaN  
## glmmLasso NaN

## false em mse true em mse treatment mse patient specific trt mse  
## bayesLASSO 0.0019709806 0.003326481 0.01157063 0.01608387  
## SSVS 0.0009776973 0.003120629 0.01154580 0.01248667  
## continuous EM se binary EM se treatment se  
## bayesLASSO 0.05838965 0.05414072 0.1573126  
## SSVS 0.05636320 0.05328983 0.1570176

## Simulation 3

## Simulation 4