

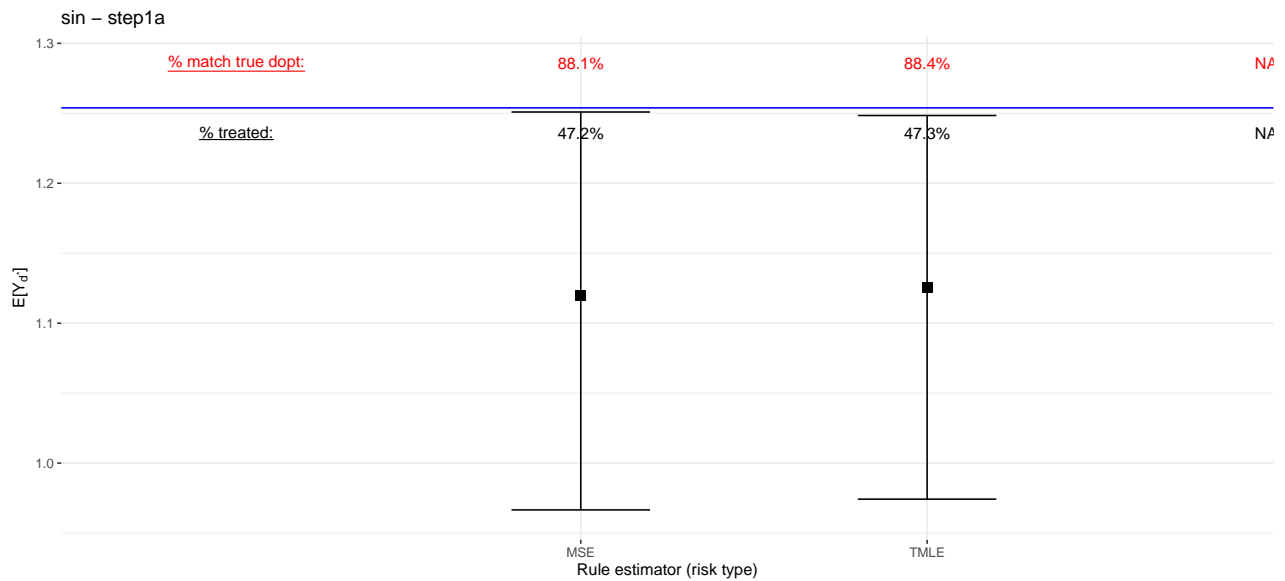
Simulation Results - sin

Vote library = "OWL", "EARL", "optclass", "RWL", "Qlearn", "DonV", "treatall", "treatnone"

1 Step 1

- blip (a) and majority vote (b) SuperLearner
- Blip and QAW library = c("SL.glm", "SL.mean", "SL.glm.interaction", "SL.earth", "SL.nnet")

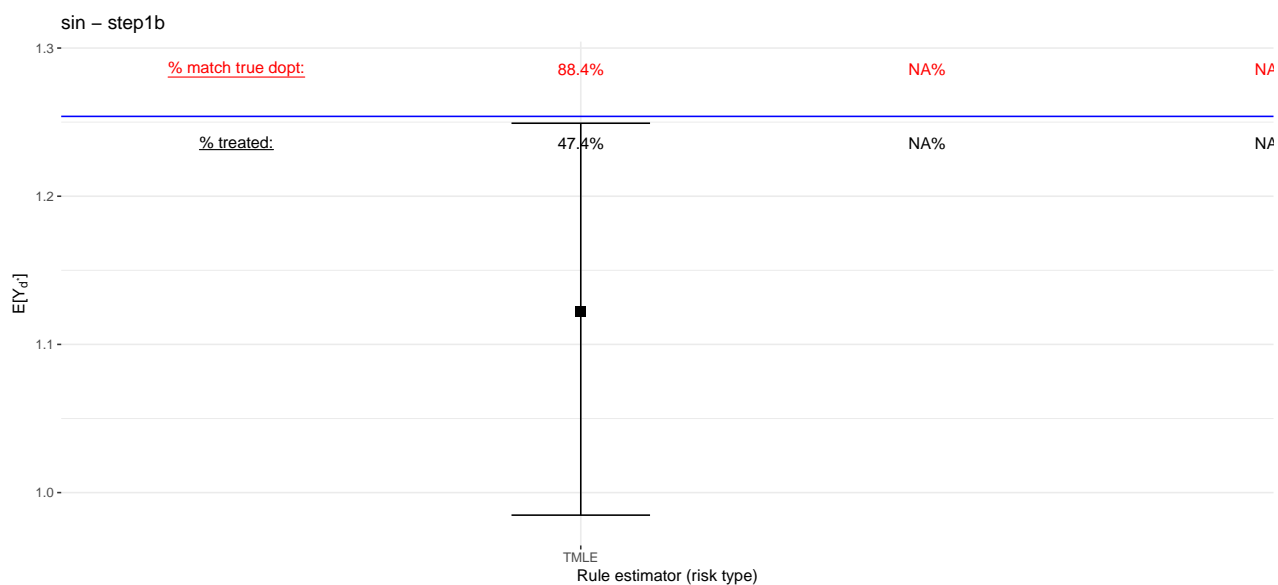
1.1 Blip-based SL (a)



	MSE	TMLE
Bias	-0.13415	-0.12822
Variance	0.00719	0.00491
MSE	0.02518	0.02135
coef.SL.glm	0.03098	0.07570
coef.SL.mean	0.03194	0.11768
coef.SL.glm.interaction	0.03006	0.06217
coef.SL.earth	0.47786	0.35485
coef.SL.nnet	0.05131	0.08949
coef.SL.svm	0.05243	0.10459
coef.SL.rpart	0.32542	0.19553

Table 1: sin - step1a

1.2 vote-based SL (b)



	TMLE
Bias	-0.13168
Variance	0.00488
MSE	0.02221
coef.DonV.DonV.SL.glm.All	0.00617
coef.DonV.DonV.SL.mean.All	0.00734
coef.DonV.DonV.SL.glm.interaction.All	0.00612
coef.DonV.DonV.SL.earth.All	0.34800
coef.DonV.DonV.SL.nnet.All	0.00668
coef.DonV.DonV.SL.svm.All	0.00891
coef.DonV.DonV.SL.rpart.All	0.18857
coef.Qlearn.Qlearn.SL.glm.All	0.00696
coef.Qlearn.Qlearn.SL.mean.All	0.00915
coef.Qlearn.Qlearn.SL.glm.interaction.All	0.00572
coef.Qlearn.Qlearn.SL.earth.All	0.00705
coef.Qlearn.Qlearn.SL.nnet.All	0.00804
coef.Qlearn.Qlearn.SL.svm.All	0.00668
coef.Qlearn.Qlearn.SL.rpart.All	0.33525
coef.OWL	0.01116
coef.EARL	0.00552
coef.optclass	0.00833
coef.RWL	0.00647
coef.treatall	0.01029
coef.treatnone	0.00758

Table 2: sin - step1b

2 Step 5

- blip (a) and majority vote (b) SuperLearner
- incorrect glm QAV, incorrect glm QAW

2.1 Blip-based SL (a)

```
## Error in colMeans(estimates[, grep(colnames(estimates), pattern = "mean_dopt")]):  
'x' must be numeric
```

```
## Error in est - truth: non-numeric argument to binary operator
```

2.2 vote-based SL (b)

```
## Error in colMeans(estimates[, grep(colnames(estimates), pattern = "mean_dopt")]):  
'x' must be numeric  
## Error in est - truth: non-numeric argument to binary operator
```