

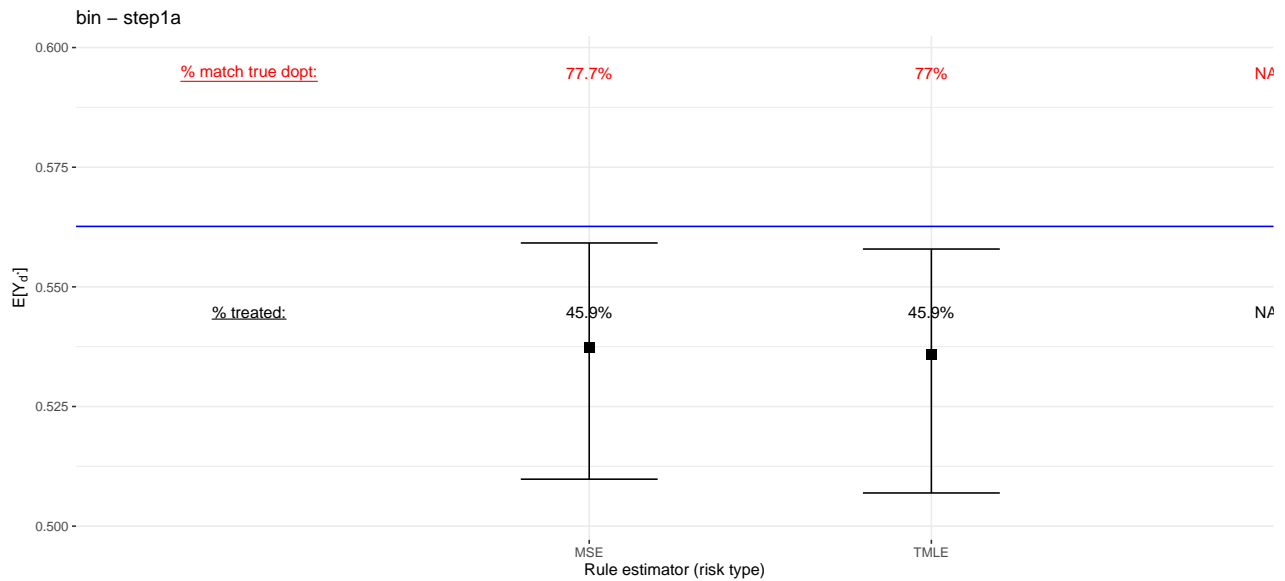
Simulation Results - AL binary

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")

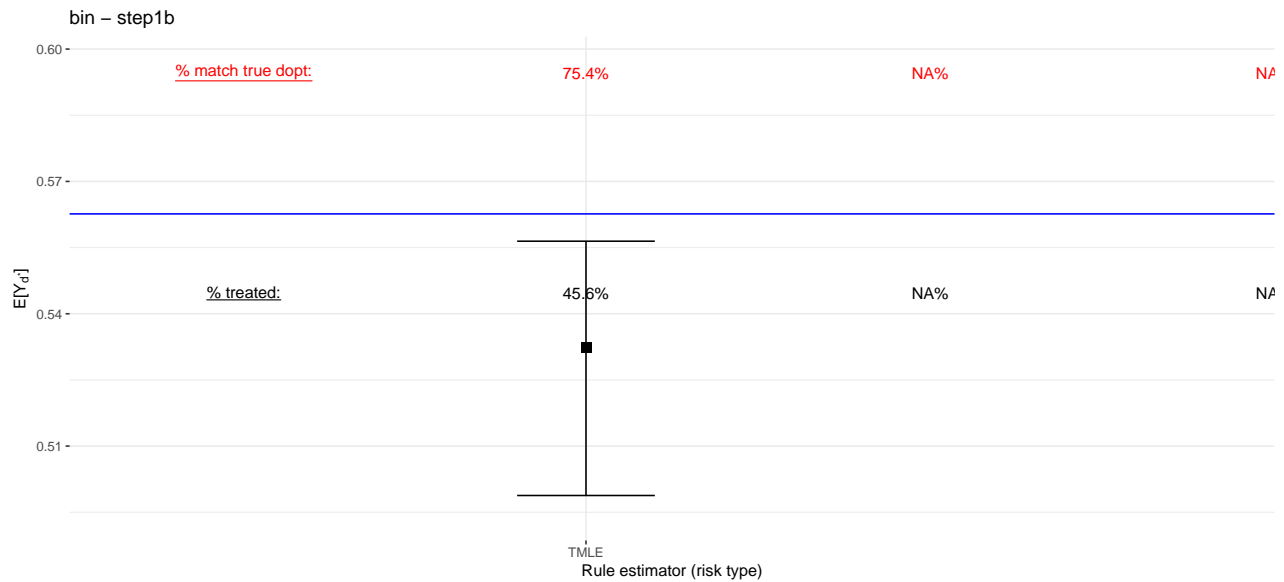
1.1 Blip-based SL (a)



	MSE	TMLE
Bias	-0.02533	-0.02683
Variance	0.00015	0.00016
MSE	0.00080	0.00088
coef.SL.glm	0.05282	0.09355
coef.SL.mean	0.13224	0.11436
coef.SL.glm.interaction	0.03420	0.07687
coef.SL.earth	0.27292	0.26934
coef.SL.nnet	0.10743	0.09954
coef.SL.svm	0.19965	0.17341
coef.SL.rpart	0.20075	0.17293

Table 1: cont - step1a

1.2 vote-based SL (b)



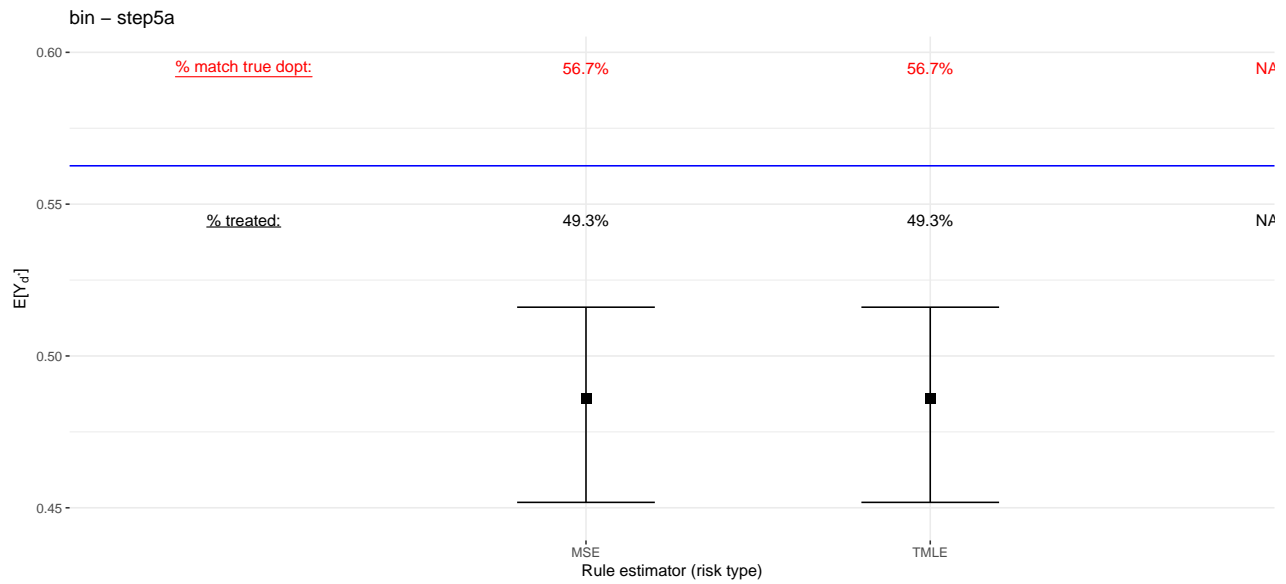
	TMLE
Bias	-0.03020
Variance	0.00022
MSE	0.00114
coef.DonV.DonV.SL.glm_All	0.02351
coef.DonV.DonV.SL.mean_All	0.02603
coef.DonV.DonV.SL.glm.interaction_All	0.02531
coef.DonV.DonV.SL.earth_All	0.21928
coef.DonV.DonV.SL.nnet_All	0.04365
coef.DonV.DonV.SL.svm_All	0.08185
coef.DonV.DonV.SL.rpart_All	0.12803
coef.Qlearn.Qlearn.SL.glm_All	0.02665
coef.Qlearn.Qlearn.SL.mean_All	0.03123
coef.Qlearn.Qlearn.SL.glm.interaction_All	0.02698
coef.Qlearn.Qlearn.SL.earth_All	0.03139
coef.Qlearn.Qlearn.SL.nnet_All	0.02880
coef.Qlearn.Qlearn.SL.svm_All	0.03210
coef.Qlearn.Qlearn.SL.rpart_All	0.03286
coef.OWL	0.04742
coef.EARL	0.02632
coef.optclass	0.06627
coef.RWL	0.02285
coef.treatall	0.04735
coef.treatnone	0.03212

Table 2: cont - step1b

2 Step 5

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

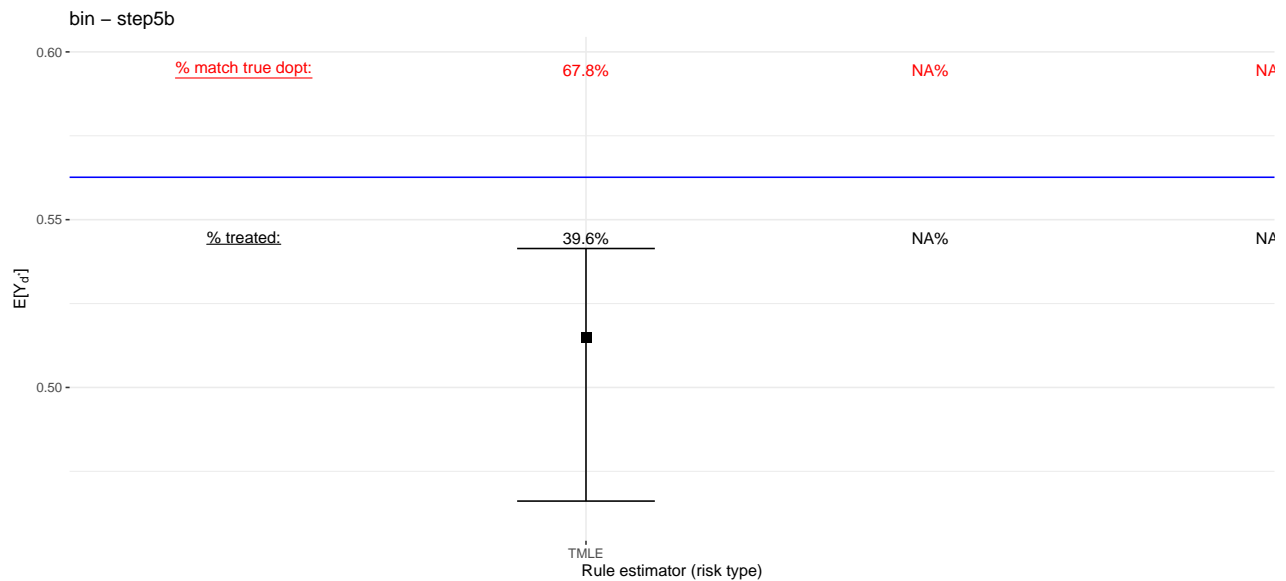
2.1 Blip-based SL (a)



	MSE	TMLE
Bias	-0.07652	-0.07652
Variance	0.00027	0.00027
MSE	0.00613	0.00613
estimates..1.....grep.colnames.estimates..1.....pattern....coef...	1.00000	1.00000

Table 3: bin - step5a

2.2 vote-based SL (b)



	TMLE
Bias	-0.04764
Variance	0.00033
MSE	0.00260
coef.DonV.SL.glm.All	0.04386
coef.Qlearn.SL.QAW.incorrect.All	0.04459
coef.OWL	0.05664
coef.EARL	0.03052
coef.optclass	0.69974
coef.RWL	0.02855
coef.treatall	0.03438
coef.treatnone	0.06172

Table 4: bin - step5a