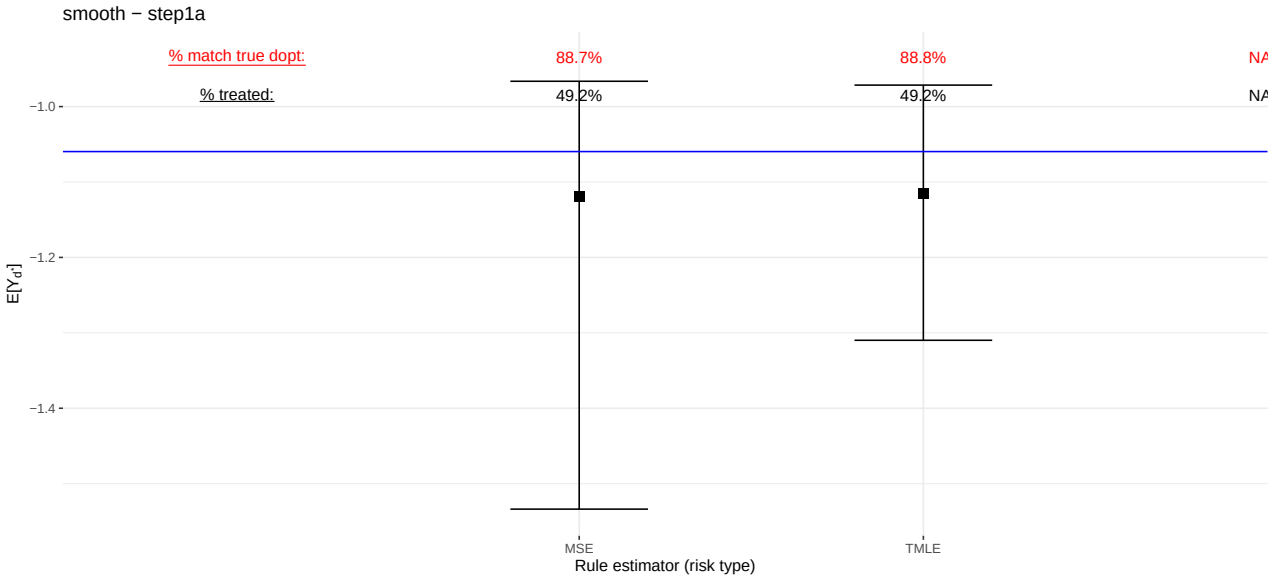
Simulation Results - smooth

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")

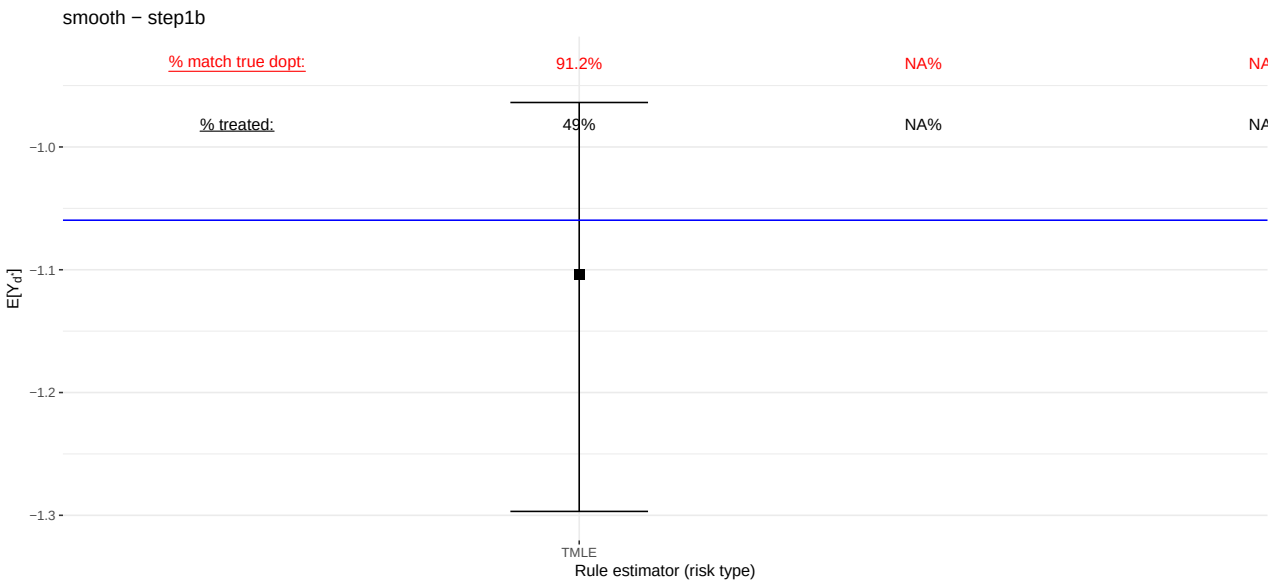
1.1 Blip-based SL (a)



	MSE	TMLE
Bias	-0.06021	-0.05566
Variance	0.01432	0.00755
MSE	0.01794	0.01064
coef.SL.glm	0.51923	0.29013
coef.SL.mean	0.10736	0.10224
coef.SL.glm.interaction	0.09462	0.15061
coef.SL.earth	0.07752	0.10576
coef.SL.nnet	0.07717	0.12947
coef.SL.svm	0.04754	0.08328
coef.SL.rpart	0.07657	0.13851

Table 1: smooth - step1a

1.2 vote-based SL (b)



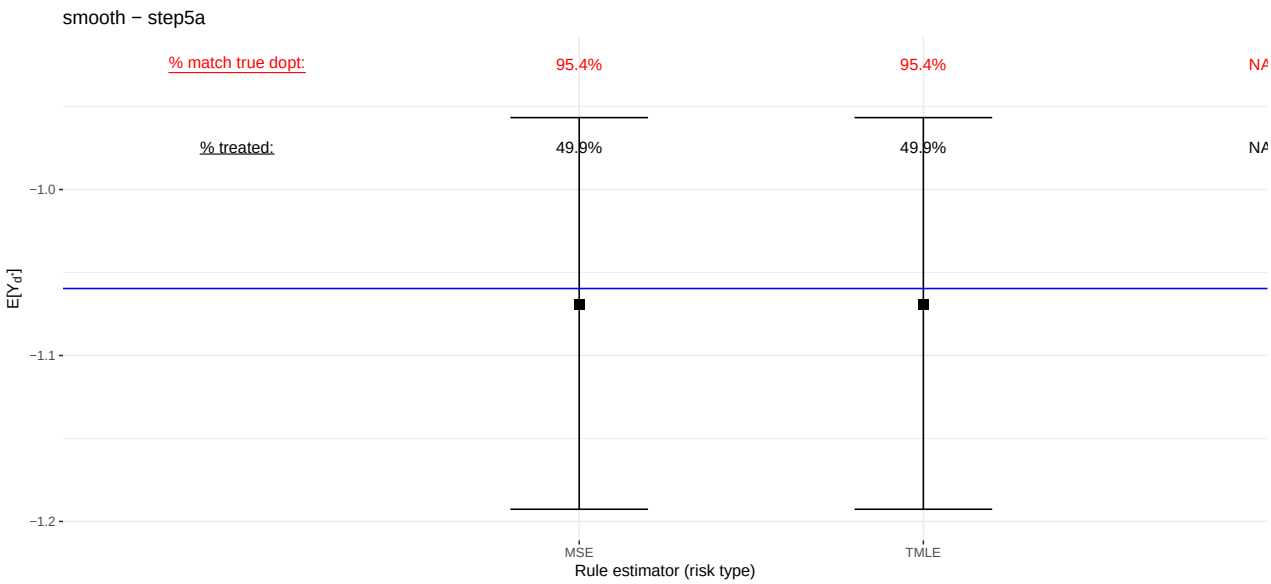
	TMLE
Bias	-0.04396
Variance	0.00865
MSE	0.01057
coef.DonV.DonV.SL.glm_All	0.05479
coef.DonV.DonV.SL.mean_All	0.03260
coef.DonV.DonV.SL.glm.interaction_All	0.05291
coef.DonV.DonV.SL.earth_All	0.05614
coef.DonV.DonV.SL.nnet_All	0.05143
coef.DonV.DonV.SL.svm_All	0.04188
coef.DonV.DonV.SL.rpart_All	0.06386
coef.Qlearn.Qlearn.SL.glm_All	0.03504
coef.Qlearn.Qlearn.SL.mean_All	0.03906
coef.Qlearn.Qlearn.SL.glm.interaction_All	0.06912
coef.Qlearn.Qlearn.SL.earth_All	0.03911
coef.Qlearn.Qlearn.SL.nnet_All	0.04556
coef.Qlearn.Qlearn.SL.svm_All	0.03775
coef.Qlearn.Qlearn.SL.rpart_All	0.04111
coef.OWL	0.04200
coef.EARL	0.08225
coef.optclass	0.06621
coef.RWL	0.06807
coef.treatall	0.04494
coef.treatnone	0.03619

Table 2: smooth - step1b

2 Step 5

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

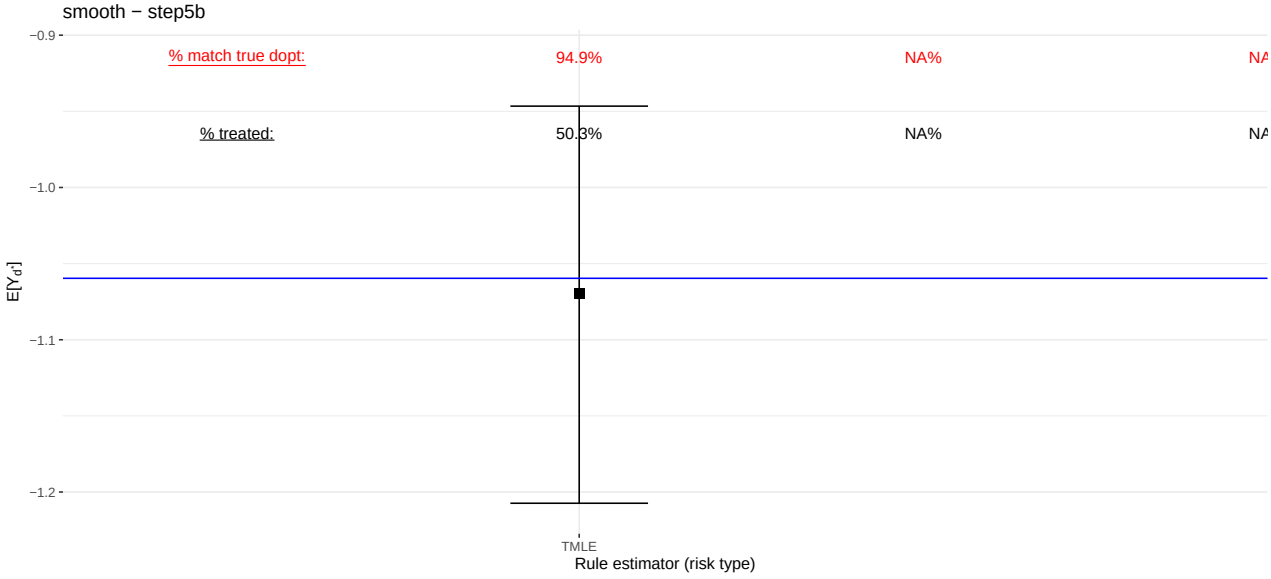
2.1 Blip-based SL (a)



	MSE	TMLE
Bias	-0.00944	-0.00944
Variance	0.00344	0.00344
MSE	0.00352	0.00352
estimates..1.....grep.colnames.estimates..1.....pattern....coef...	1.00000	1.00000

Table 3: smooth - step5a

2.2 vote-based SL (b)



	TMLE
Bias	-0.00978
Variance	0.00466
MSE	0.00475
coef.DonV.SL.glm_All	0.12644
coef.Qlearn.SL.QAW.incorrect_All	0.07654
coef.OWL	0.07619
coef.EARL	0.21256
coef.optclass	0.13665
coef.RWL	0.16684
coef.treatall	0.07979
coef.treatnone	0.12499

Table 4: smooth - step5a