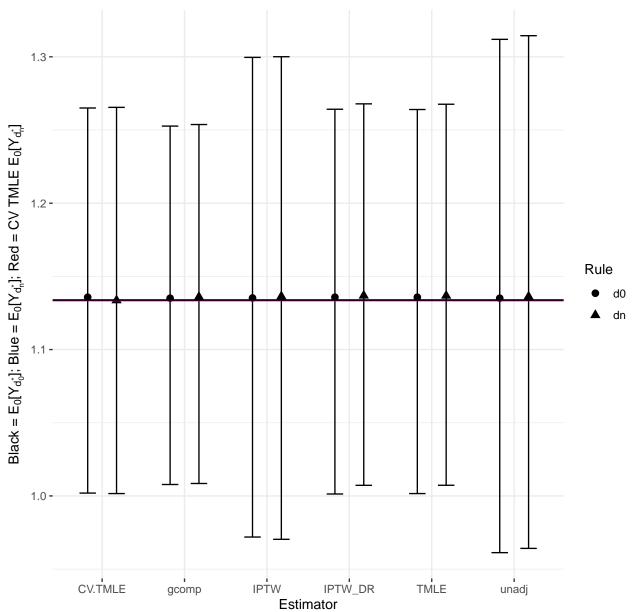
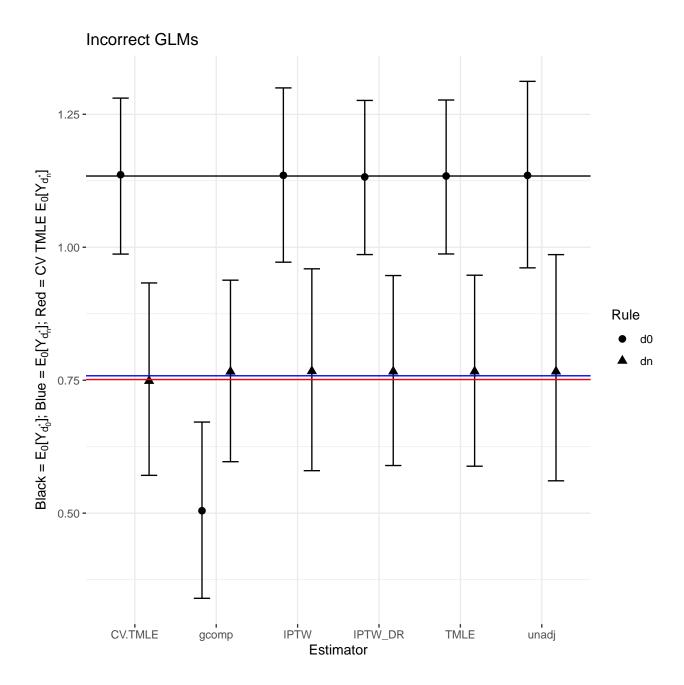
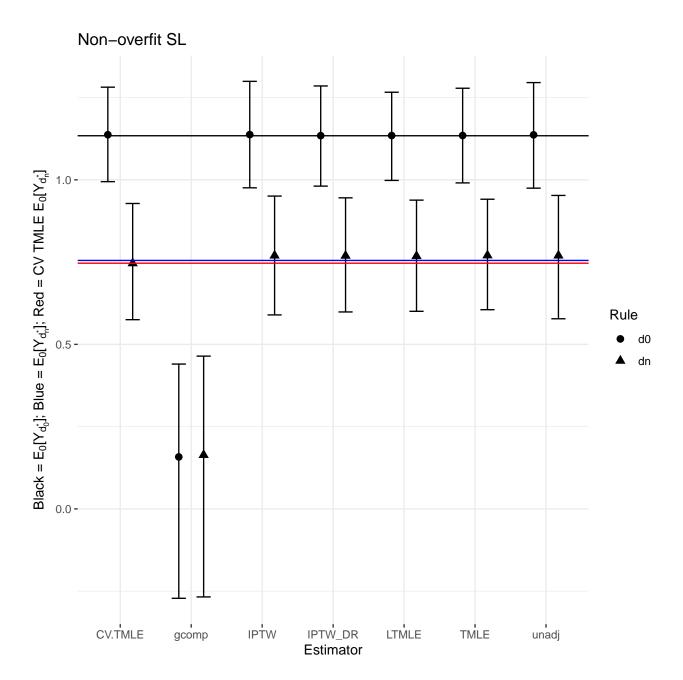
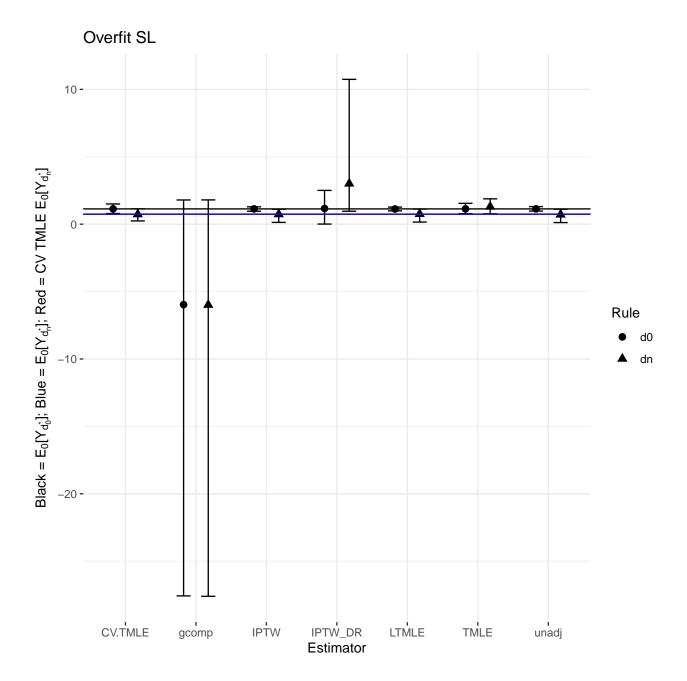
SMOOTH2

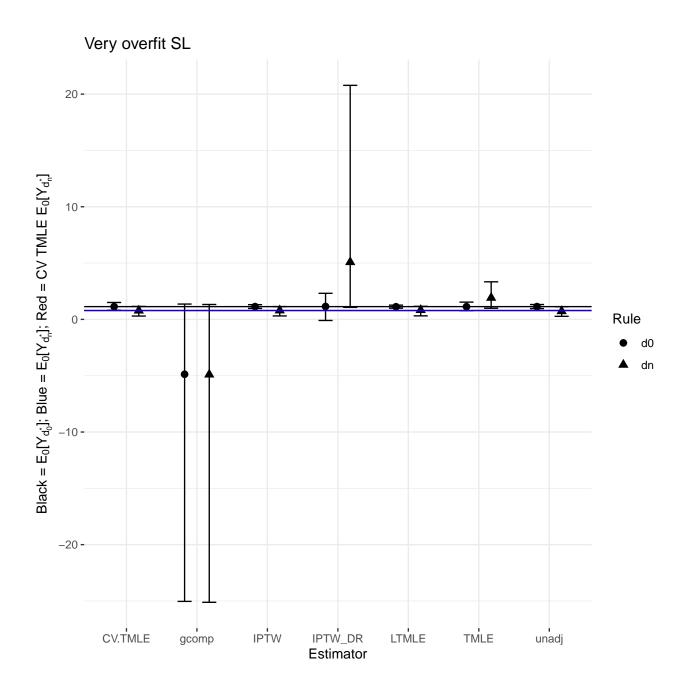












<pre># Correct GLM make_table_EYdopt</pre>	(EYdopt =	EYdopt_st	tep1_sm	ooth2, tru	evalues = DGP_smooth2_true_values)
##	Bias	Variance	MSE	Coverage	
## unadj		0.0081		0	
## gcomp	0.002	0.0041	0.0041	-	
## IPTW	0.0024	0.007	0.007	0.97	
## IPTW_DR	0.0029	0.0045	0.0045	0.958	
## TMLE	0.0028	0.0045	0.0045	0.956	
## LTMLE	-	-	_	_	
## CV.TMLE	-3e-04	0.0046	0.0046	0.952	
## unadj_dopt0	0.0011	0.0081	0.0081	0.995	
## gcomp_dopt0	0.0011	0.0041	0.0041	_	
## IPTW_dopt0	0.0013	0.0071	0.0071	0.967	
## IPTW_DR_dopt0	0.0018	0.0046	0.0046	0.955	

```
## TMLE_dopt0
                 0.0018
                          0.0046 0.0046
                                         0.956
## LTMLE_dopt0
## CV.TMLE_dopt0
                  0.0018
                          0.0046 0.0046
                                         0.955
## unadj_sampspec 0.0025 0.0081 0.005
                                         1
## gcomp_sampspec
                 0.0022 0.0041 0.0015
## IPTW_sampspec
                 0.0026 0.007 0.0041
                                         0.994
## IPTW_DR_sampspec 0.0031
                          0.0045 0.002
                                         0.997
## LTMLE_sampspec
## TMLE_sampspec
                 0.0031 0.0045 0.002
                                        0.997
## CV.TMLE_sampspec 2e-04
                          0.0046 0.002
                                         0.997
# Incorrect GLM
make_table_EYdopt(EYdopt = EYdopt_step2_smooth2, truevalues = DGP_smooth2_true_values)
##
                    Bias Variance MSE Coverage
## unadj
                                          0.158
                 -0.3676 0.0108 0.1459
## gcomp
                 -0.3678 0.0077 0.143
## IPTW
                 -0.367 0.0092 0.1439
                                          0.052
                                          0.02
## IPTW_DR
                 -0.3676 0.0083 0.1434
## TMLE
                 -0.3675 0.0083 0.1433
                                          0.022
## LTMLE
## CV.TMLE
                 -0.3853 0.0086 0.1571 0.013
## unadj_dopt0
                                          0.995
                 0.0011 0.0081 0.0081
## gcomp_dopt0
                 -0.6294 0.007 0.4031
## IPTW_dopt0
                 0.0013 0.0071 0.0071
                                          0.967
                 -0.0017 0.0056 0.0056
## IPTW_DR_dopt0
                                          0.955
## TMLE_dopt0
                      0 0.0054 0.0054
                                          0.95
## LTMLE_dopt0
## CV.TMLE_dopt0
                 0.0023 0.0055 0.0055
                                          0.95
## unadj_sampspec
                  0.008 0.0108 0.0062
                                          0.999
                0.0078 0.0077 0.0039
## gcomp_sampspec
## IPTW_sampspec 0.0087 0.0092 0.0051
                                          0.994
## IPTW_DR_sampspec 0.0081
                         0.0083 0.0042
                                          0.988
## LTMLE_sampspec
                               - -
## TMLE_sampspec
                  0.0081
                         0.0083 0.0042
                                          0.987
## CV.TMLE_sampspec -0.0027
                           0.0086 0.0041
                                          0.99
# Non-overfit SL
make_table_EYdopt(EYdopt = EYdopt_step3_smooth2, truevalues = DGP_smooth2_true_values)
##
                    Bias Variance
                                   MSE Coverage
## unadj
                  -0.3641 0.0092 0.1417
                                          0.145
## gcomp
                 -0.9701 0.0438 0.9848
## IPTW
                 -0.3642 0.0086 0.1412 0.045
## IPTW_DR
                 -0.3647 0.0082 0.1412 0.027
## TMLE
                 -0.3636 0.0079 0.1401 0.018
## CV.TMLE
                 -0.3876 0.0083 0.1586
                                         0.012
## unadj_dopt0
                 0.0027 0.0072 0.0072
                                          0.998
## gcomp_dopt0
                  -0.9759 0.0418 0.9942
## IPTW_dopt0
                 0.0034 0.0068 0.0068
                                         0.975
## IPTW_DR_dopt0
                 0.0003 0.0061 0.0061
                                          0.968
```

```
## TMLE_dopt0
                    0.0007
                             0.0053 0.0053
                                             0.966
## CV.TMLE_dopt0
                             0.0055 0.0055
                                             0.967
                    0.0031
## LTMLE
                   -0.3657
                            0.0076 0.1413
                                             0.01
## LTMLE_dopt0
                  0.0006 0.0049 0.0049
                                             0.965
## unadj_sampspec
                   0.0148
                           0.0092 0.0059
                                                 1
## gcomp_sampspec
                   -0.5912 0.0438 0.3931
                                                 _
                           0.0086 0.0052
                                             0.996
## IPTW_sampspec
                    0.0147
## IPTW_DR_sampspec 0.0141 0.0082 0.0048
                                             0.997
## LTMLE_sampspec
                    0.0131 0.0076 0.0041
                                             0.996
                    0.0152 0.0079 0.0046 0.995
## TMLE_sampspec
## CV.TMLE_sampspec -0.0003 0.0083 0.0045 0.995
make_table_EYdopt(EYdopt = EYdopt_step4_smooth2, truevalues = DGP_smooth2_true_values)
##
                      Bias Variance
                                        MSE Coverage
                                               0.325
## unadj
                   -0.4233
                             0.0678
                                     0.2469
## gcomp
                   -7.1219 72.3852 123.0346
                                               0.212
## IPTW
                   -0.3980
                           0.0624
                                     0.2207
## IPTW_DR
                    1.8747
                            7.3525 10.8597
                                               0.379
## TMLE
                           0.0766
                                               0.743
                    0.1632
                                    0.1031
## CV.TMLE
                   -0.3994
                           0.0506
                                     0.2101
                                               0.411
## unadj_dopt0
                   0.0007
                            0.0076
                                               0.997
                                     0.0076
## gcomp_dopt0
                   -7.1046 72.2634 122.6658
## IPTW_dopt0
                   0.0006
                           0.0074
                                     0.0073
                                               0.97
## IPTW_DR_dopt0
                   0.0309
                                     0.3676
                                               0.942
                           0.3670
## TMLE_dopt0
                    0.0028
                           0.0335 0.0335
                                               0.954
## CV.TMLE_dopt0
                   0.0024
                           0.0311
                                     0.0310
                                               0.944
## LTMLE
                                               0.19
                   -0.3797
                           0.0656
                                     0.2097
## LTMLE_dopt0
                   -0.0081
                           0.0053
                                     0.0053
                                               0.945
                           0.0678
                                               0.996
## unadj_sampspec
                   -0.0370
                                     0.0082
                   -6.7356 72.3852 114.9904
## gcomp_sampspec
## IPTW_sampspec
                   -0.0118
                           0.0624
                                     0.0065
                                               0.986
## IPTW_DR_sampspec 2.2610
                            7.3525 13.2520
                                               0.171
                    0.0066
## LTMLE_sampspec
                           0.0656
                                    0.0026
                                               0.997
                    0.5494
                             0.0766
                                     0.4259
                                               0.26
## TMLE_sampspec
                                               0.944
## CV.TMLE_sampspec -0.0054 0.0506 0.0315
make_table_EYdopt(EYdopt = EYdopt_step5_smooth2, truevalues = DGP_smooth2_true_values)
##
                      Bias Variance
                                       MSE Coverage
## unadj
                   -0.4059
                           0.0568 0.2216
                                              0.306
## gcomp
                   -6.0318 61.1617 97.4833
## IPTW
                   -0.3387
                            0.0484 0.1631
                                              0.272
## IPTW_DR
                    3.9490 30.7465 46.3101
                                              0.133
## TMLE
                    0.7811
                           0.5343 1.1439
                                              0.222
## CV.TMLE
                   -0.3522 0.0487 0.1727
                                              0.457
## unadj_dopt0
                    0.0018
                           0.0079 0.0078
                                              0.996
## gcomp_dopt0
                   -6.0059 60.9575 96.9668
## IPTW_dopt0
                    0.0019
                           0.0071 0.0071
                                              0.969
## IPTW_DR_dopt0
                   0.0118 0.3231 0.3229
                                               0.94
## TMLE_dopt0
                   -0.0053 0.0328 0.0328
                                              0.937
```

##	CV.TMLE_dopt0	0.0009	0.0332	0.0332	0.938
##	LTMLE	-0.3040	0.0549	0.1472	0.303
##	LTMLE_dopt0	-0.0095	0.0051	0.0051	0.944
##	unadj_sampspec	-0.0597	0.0568	0.0184	0.955
##	gcomp_sampspec	-5.6855	61.1617	90.9031	_
##	IPTW_sampspec	0.0076	0.0484	0.0135	0.91
##	IPTW_DR_sampspec	4.2952	30.7465	50.8612	0.061
##	LTMLE_sampspec	0.0423	0.0549	0.0057	0.948
##	TMLE_sampspec	1.1274	0.5343	1.9671	0.078
##	CV.TMLE_sampspec	-0.0055	0.0487	0.0292	0.956