Table 1: Comparative analysis for the impact of cross-fitting on TMLEs and one-step estimators in conjunction with the use of random forests. RF refers to random forest with 200 trees and a minimum node size of 1, and CF denotes random forest with cross fitting using 5 folds.

	TMLEs						One-step estimators					
	Univari	ate Binary	Univariate Continuous				Univariate Binary		Univariate Continuous			
	$\psi_1(\hat{Q}^{\star})$		$\psi_{2a}(\hat{Q}^{\star})$		$\psi_{2b}(\hat{Q}^{\star})$		$\psi_1^+(\hat{Q})$		$\psi_{2a}^{+}(\hat{Q})$		$\psi_{2b}^{+}(\hat{Q})$	
	RF	CF	RF	CF	RF	CF	RF	CF	RF	$_{\mathrm{CF}}$	RF	CF
n=500												
Bias	-0.175	-0.021	-0.368	0.058	-0.518	0.020	-0.105	-0.027	-0.088	0.068	-0.524	0.018
SD	0.167	0.140	0.379	0.334	0.381	0.288	0.052	0.130	0.429	0.322	0.384	0.289
MSE	0.059	0.020	0.279	0.115	0.413	0.083	0.014	0.018	0.192	0.108	0.421	0.084
CI coverage	18.1%	83.9%	42.4%	87%	33.9%	88.4%	19.6%	86.6%	53.9%	88.2%	33%	87.7%
CI width	0.133	0.397	0.657	0.995	0.743	0.880	0.122	0.396	0.657	0.992	0.744	0.879
n=1000												
Bias	-0.177	-0.016	-0.380	0.055	-0.520	0.013	-0.102	-0.020	-0.106	0.059	-0.525	0.010
SD	0.117	0.096	0.259	0.214	0.274	0.221	0.040	0.092	0.288	0.218	0.277	0.223
MSE	0.045	0.010	0.211	0.049	0.346	0.049	0.012	0.009	0.094	0.051	0.352	0.050
CI coverage	11.7%	89.5%	23.2%	89%	17.4%	87.6%	12.6%	90.6%	49.3%	87.9%	17.5%	88.2%
CI width	0.105	0.320	0.412	0.700	0.535	0.666	0.101	0.320	0.414	0.699	0.535	0.666
n=2000												
Bias	-0.175	-0.010	-0.372	0.065	-0.498	0.025	-0.098	-0.012	-0.120	0.067	-0.504	0.021
SD	0.083	0.074	0.179	0.149	0.188	0.166	0.034	0.073	0.196	0.151	0.192	0.166
MSE	0.038	0.006	0.170	0.026	0.283	0.028	0.011	0.005	0.053	0.027	0.291	0.028
CI coverage	5.7%	90.9%	9.9%	89.7%	4.9%	85.9%	8.5%	91.1%	50.9%	89.4%	5.2%	86.3%
CI width	0.084	0.250	0.294	0.526	0.384	0.506	0.082	0.250	0.295	0.525	0.385	0.505