Table 1: Comparative analysis of TMLEs and one-step estimators under model misspecifications when the outcome is in the district of the treatment.

	TMLEs									One-step estimators								
	$\psi_{dnorm}(\hat{Q}^{\star})$			$\psi_{densratio}(\hat{Q}^{\star})$			$\psi_{bayes}(\hat{Q}^{\star})$			$\psi^+_{dnorm}(\hat{Q})$			$\psi^+_{densratio}(\hat{Q})$			$\psi_{bayes}^{+}(\hat{Q})$		
	Linear	SL	$_{\mathrm{CF}}$	Linear	SL	$_{\mathrm{CF}}$	Linear	$_{ m SL}$	$_{\mathrm{CF}}$	Linear	SL	$_{\mathrm{CF}}$	Linear	SL	$_{\mathrm{CF}}$	Linear	SL	$_{\mathrm{CF}}$
n=500																		
Bias	0.623	0.361	0.373	0.498	0.267	0.271	0.588	0.289	0.346	0.648	0.366	0.395	0.319	-0.013	0.016	0.614	0.295	0.352
$^{\mathrm{SD}}$	0.979	0.981	0.995	0.988	0.978	0.989	0.975	0.972	1.027	0.989	0.983	1.028	1.268	1.251	1.240	1.015	0.967	1.111
MSE	1.345	1.091	1.129	1.223	1.028	1.051	1.296	1.027	1.174	1.396	1.099	1.211	1.709	1.564	1.537	1.406	1.022	1.358
CI coverage	87.6%	86.5%	91.9%	93.1%	92.6%	95.7%	88.4%	86.9%	92.9%	88.3%	87.7%	91.6%	91.8%	90.2%	94.6%	89.3%	87.4%	92.1%
CI width	3.584	3.190	3.726	4.682	4.568	4.913	3.589	3.135	3.818	3.711	3.246	3.787	4.753	4.557	4.881	3.760	3.144	3.940
n=1000																		
Bias	0.597	0.302	0.305	0.492	0.216	0.223	0.562	0.195	0.216	0.619	0.305	0.313	0.230	-0.062	-0.063	0.580	0.208	0.228
$^{\mathrm{SD}}$	0.717	0.729	0.745	0.704	0.712	0.704	0.720	0.722	0.762	0.737	0.737	0.760	0.864	0.874	0.836	0.762	0.718	0.877
MSE	0.871	0.622	0.648	0.738	0.553	0.544	0.833	0.559	0.626	0.925	0.636	0.675	0.799	0.768	0.702	0.917	0.559	0.820
CI coverage	82.5%	86.6%	90.3%	93.5%	95.2%	96.4%	83.9%	87%	91%	83.9%	86.9%	90.3%	93.8%	94.4%	95.7%	85.2%	87.7%	90.7%
CI width	2.572	2.339	2.598	3.264	3.183	3.325	2.578	2.295	2.651	2.659	2.387	2.646	3.304	3.184	3.319	2.682	2.300	2.746
n=2000																		
Bias	0.628	0.310	0.311	0.528	0.225	0.226	0.592	0.179	0.197	0.644	0.310	0.312	0.302	-0.008	0.005	0.603	0.197	0.200
$^{\mathrm{SD}}$	0.508	0.521	0.525	0.490	0.495	0.494	0.511	0.503	0.532	0.516	0.528	0.541	0.564	0.536	0.535	0.530	0.502	0.544
MSE	0.651	0.367	0.372	0.519	0.296	0.295	0.611	0.285	0.321	0.680	0.374	0.389	0.409	0.287	0.285	0.644	0.291	0.335
CI coverage	73%	84.5%	87%	86%	93.3%	94.5%	76.1%	87.7%	90.6%	73%	85%	87.5%	90.9%	94%	95%	76.6%	88.5%	90.7%
CI width	1.836	1.686	1.830	2.150	2.067	2.154	1.844	1.651	1.881	1.886	1.717	1.872	2.174	2.071	2.156	1.908	1.661	1.925