Table 1: Comparison between TMLE estimators and one-step EIF estimator under positivity assumption violation when the outcome is not in the district of the treatment.

	$\psi^+_{dnorm}(\hat{Q})$	$\psi_{dnorm}(\hat{Q}^{\star})$	$\psi^+_{densratio}(\hat{Q})$	$\psi_{densratio}(\hat{Q}^{\star})$	$\psi^+_{bayes}(\hat{Q})$	$\psi_{bayes}(\hat{Q}^{\star})$
n=500						
Bias	0.009	-0.015	-0.015	-0.011	-0.019	-0.019
SD	4.583	1.124	4.247	1.117	4.566	1.125
MSE	20.984	1.262	18.021	1.246	20.830	1.265
CI coverage	97.1%	96.5%	97.4%	97.6%	97.9%	98.4%
CI width	8.254	4.351	8.598	4.957	9.300	5.304
n=1000						
Bias	-0.124	-0.061	-0.109	-0.057	-0.133	-0.063
SD	2.593	0.960	2.508	0.959	2.631	0.973
MSE	6.734	0.924	6.296	0.923	6.931	0.949
CI coverage	97%	96.3%	96.7%	96.9%	97.3%	98.6%
CI width	4.908	3.184	5.073	3.455	5.511	3.741
n=2000						
Bias	0.038	0.012	0.052	0.022	0.057	0.020
SD	1.361	0.728	1.333	0.724	1.408	0.735
MSE	1.851	0.530	1.776	0.525	1.985	0.540
CI coverage	97%	97%	97.3%	97.9%	97.3%	98.3%
CI width	3.235	2.447	3.315	2.575	3.615	2.809