Table 1: Performance of ATT estimators under model misspecifications across mediator types.

		TMLEs										One-step estimators								
		Unive	ariate E	Binary	Univariate Continuous						Unive	ariate I	Binary	Univariate Continuous						
		$\psi_1(\hat{Q}^{\star})$			$\psi_{2a}(\hat{Q}^{\star})$			$\psi_{2b}(\hat{Q}^{\star})$			$\psi_1^+(\hat{Q})$			$\psi_{2a}^+(\hat{Q})$			$\psi_{2b}^+(\hat{Q})$			
		Linear	$\operatorname{SL}$	CF	Linear	$\operatorname{SL}$	CF	Linear	$\operatorname{SL}$	CF	Linear	$\operatorname{SL}$	CF	Linear	$\operatorname{SL}$	$_{\mathrm{CF}}$	Linear	$\operatorname{SL}$	CF	
n=500	Bias	-0.011	0.002	-0.006	-0.076	-0.011	-0.019	-0.077	-0.02	-0.028	-0.012	-0.001	-0.004	-0.076	-0.003	-0.006	-0.077	-0.019	-0.03	
	$^{\mathrm{SD}}$	0.055	0.063	0.062	0.1	0.143	0.145	0.1	0.11	0.125	0.056	0.06	0.067	0.1	0.113	0.113	0.1	0.11	0.128	
	$_{ m MSE}$	0.003	0.004	0.004	0.016	0.02	0.021	0.016	0.013	0.016	0.003	0.004	0.005	0.016	0.013	0.013	0.016	0.013	0.017	
	Coverage	89.2%	88.3%	90.3%	88.1%	95.7%	95.2%	88%	92.5%	93.3%	90%	87.9%	89.3%	88.2%	98.1%	98.8%	88.1%	92.8%	93%	
n=1000	CI width	0.209	0.204	0.218	0.437	0.526	0.547	0.437	0.416	0.478	0.219	0.197	0.212	0.438	0.526	0.548	0.439	0.418	0.481	
	Bias	-0.011	0.001	-0.004	-0.077	-0.004	-0.007	-0.078	-0.014	-0.017	-0.012	-0.001	-0.003	-0.077	-0.002	-0.001	-0.078	-0.013	-0.017	
	$^{\mathrm{SD}}$	0.038	0.042	0.042	0.073	0.086	0.088	0.073	0.08	0.085	0.039	0.042	0.042	0.073	0.082	0.082	0.073	0.08	0.085	
	$_{ m MSE}$	0.002	0.002	0.002	0.011	0.007	0.008	0.011	0.007	0.007	0.002	0.002	0.002	0.011	0.007	0.007	0.011	0.007	0.008	
	${\bf Coverage}$	89%	89.7%	89.6%	80.3%	96.4%	97%	80.3%	92.4%	92%	88.8%	89.2%	89.1%	80.4%	96.8%	98.1%	80.4%	92.8%	91.7%	
n=2000	CI width	0.145	0.147	0.151	0.308	0.366	0.374	0.308	0.293	0.316	0.152	0.144	0.148	0.309	0.366	0.375	0.309	0.294	0.317	
	Bias	-0.012	0.002	-0.001	-0.078	-0.004	-0.005	-0.078	-0.007	-0.01	-0.012	0.001	0	-0.078	-0.004	-0.004	-0.078	-0.007	-0.01	
	$^{\mathrm{SD}}$	0.026	0.028	0.029	0.051	0.059	0.06	0.051	0.055	0.058	0.027	0.028	0.029	0.051	0.056	0.056	0.051	0.055	0.058	
	$_{ m MSE}$	0.001	0.001	0.001	0.009	0.003	0.004	0.009	0.003	0.003	0.001	0.001	0.001	0.009	0.003	0.003	0.009	0.003	0.003	
	${\bf Coverage}$	88.8%	93.5%	93.3%	67.8%	97.5%	97.2%	67.7%	93.7%	93.5%	90%	93.1%	93.5%	67.8%	97.7%	98.2%	67.7%	93.9%	93.6%	
	CI width	0.101	0.107	0.109	0.216	0.257	0.261	0.216	0.207	0.218	0.107	0.105	0.107	0.216	0.257	0.261	0.217	0.208	0.218	