

Supplement 5 – Difference-in-difference analysis sensitivity results

Table 1: Difference-in-difference estimates for program outcomes among long-term care homes (LTCHs) that implemented the program (n=30) (per-protocol analysis), LTCHs that withdrew (n=13) and LTCHs that attended all learning collaborative sessions (n=16)

Outcome:	LTCHs implemented the program (n=30) and matched controls (n=88)			Withdrew (n = 13) and matched controls (n=39)			Attended all scheduled sessions (n=16) and matched controls (n=46)		
	Estimate ^a	SE	95% CI	Estimate ^a	SE	95% CI	Estimate ^a	SE	95% CI
Urine culturing	-0.33**	0.02	-0.38, -0.29	0.02	0.03	-0.03, 0.08	-0.41**	0.03	-0.47, -0.35
Urinary antibiotics	-0.22**	0.04	-0.29, -0.15	0.04	0.05	-0.06, 0.14	-0.21**	0.05	-0.32, -0.11
Total antibiotics	-0.06*	0.02	-0.10, -0.02	-0.02	0.03	-0.07, 0.04	-0.08*	0.03	-0.14, -0.03
Acute care admissions	-0.03	0.03	-0.08, -0.02	0.11*	0.04	0.03, 0.19	-0.02	0.04	-0.10, 0.05
Mortality	0.02	0.05	-0.08, 0.11	0.01	0.07	-0.13, 0.15	-0.03	0.07	-0.16, 0.10

Note: SE, standard error. CI, confidence interval. ^aFrom the difference-in-difference estimates (Poisson random effects model) comparing the baseline period (Nov 2016 to April 2018) to the post-implementation period (Sept 2018 to Dec 2019). *p < 0.01; **p < 0.0001.