

Supplementary table S3. Results of regression modelling, unadjusted and adjusted

Subgroup	Outcomes over the follow-up period	Coefficient*	Relative difference					
			Unadjusted			Adjusted		
			Point estimate	95% confidence interval	P-value	Point estimate	95% confidence interval	P-value
Residential	Potentially avoidable admissions	intervention	0.49	(0.29, 0.82)	0.005	0.50	(0.30, 0.82)	0.007
	Emergency admissions	intervention	0.66	(0.45, 0.98)	0.031	0.60	(0.42, 0.86)	0.004
	A&E attendances	intervention	0.63	(0.45, 0.88)	0.005	0.57	(0.40, 0.81)	0.001
	Hospital bed days	intervention	0.89	(0.48, 1.66)	0.708	0.81	(0.43, 1.53)	0.467
	Outpatient attendances	intervention	1.72	(1.20, 2.47)	0.003	1.28	(0.88, 1.86)	0.169
	Deaths outside hospital	intervention	1.28	(0.56, 2.98)	0.565	1.25	(0.54, 2.92)	0.608
	Deaths	intervention	0.98	(0.63, 1.51)	0.911	0.82	(0.51, 1.33)	0.429
Nursing	Potentially avoidable admissions	intervention	1.21	(0.78, 1.87)	0.397	1.17	(0.76, 1.81)	0.484
	Emergency admissions	intervention	1.29	(0.99, 1.68)	0.057	1.15	(0.85, 1.56)	0.352
	A&E attendances	intervention	1.03	(0.76, 1.38)	0.848	1.04	(0.78, 1.38)	0.806
	Hospital bed days	intervention	0.92	(0.55, 1.56)	0.768	1.07	(0.64, 1.80)	0.790
	Outpatient attendances	intervention	1.01	(0.74, 1.37)	0.964	0.97	(0.71, 1.32)	0.840

	Deaths outside hospital	intervention	0.69	(0.35, 1.33)	0.269	1.00	(0.40, 2.49)	0.992
	Deaths	intervention	0.95	(0.70, 1.27)	0.708	0.93	(0.66, 1.31)	0.694
Interaction model	Potentially avoidable admissions	intervention	1.21	(0.78, 1.87)	0.397	1.23	(0.76, 1.99)	0.394
	Potentially avoidable admissions	intervention:chresidential	0.41	(0.22, 0.76)	0.005	0.45	(0.23, 0.88)	0.020
	Emergency admissions	intervention	1.39	(1.00, 1.94)	0.043	1.24	(0.89, 1.72)	0.201
	Emergency admissions	intervention:chresidential	0.47	(0.29, 0.78)	0.002	0.51	(0.31, 0.83)	0.005
	A&E attendances	intervention	1.04	(0.76, 1.41)	0.816	1.05	(0.78, 1.41)	0.764
	A&E attendances	intervention:chresidential	0.60	(0.39, 0.94)	0.022	0.57	(0.37, 0.87)	0.008
	Hospital bed days	Count part: intervention	0.85	(0.52, 1.37)	0.501	0.93	(0.58, 1.50)	0.762
	Hospital bed days	Count part: intervention:chresidential	1.28	(0.60, 2.71)	0.521	1.07	(0.51, 2.25)	0.858
	Hospital bed days	Zero part: intervention	1.11	(0.78, 1.58)	0.569	1.03	(0.70, 1.53)	0.867
	Hospital bed days	Zero part: intervention:chresidential	0.62	(0.35, 1.10)	0.105	0.63	(0.34, 1.16)	0.135
	Outpatient attendances	intervention	1.01	(0.75, 1.36)	0.955	0.98	(0.73, 1.31)	0.866
	Outpatient attendances	intervention:chresidential	1.71	(1.05, 2.79)	0.027	1.29	(0.81, 2.04)	0.266
	Deaths outside hospital	intervention	0.69	(0.35, 1.33)	0.269	0.83	(0.39, 1.75)	0.621

	Deaths outside hospital	intervention:chresidential	1.85	(0.64, 5.41)	0.256	1.45	(0.42, 5.00)	0.558
	Deaths	intervention	0.95	(0.70, 1.27)	0.708	0.90	(0.64, 1.26)	0.541
	Deaths	intervention:chresidential	1.03	(0.61, 1.75)	0.908	1.02	(0.57, 1.84)	0.948

Note: All relative differences are rate ratios apart from deaths outside of hospital and deaths, which are odds ratios. The interaction model selected for the hospital bed days outcome was a Hurdle model.

*Intervention coefficient: 1 = Principia, 0 = matched control; chresidential coefficient: 1 = residential care home, 0 = nursing home; intervention:chresidential: interaction term.