Supplemental table 1: Effects of the intervention on total cost of unscheduled admissions based on generalized linear model with gamma distribution and robust standard errors

Variable	Coef.	Std.Err.	Z-stat	P-value	[95% Conf. Interval]	
intervention	-0.1998	0.0625	-3.2	0.001	-0.3223	-0.0773
after	-0.1758	0.0827	-2.12	0.034	-0.3380	-0.0136
intervention*after	-0.1379	0.1036	-1.33	0.183	-0.3410	0.0651
female	0.1521	0.0519	2.93	0.003	0.0504	0.2538
age 16-24	0.0791	0.1567	0.5	0.614	-0.2280	0.3862
age 25-34	0.0561	0.1453	0.39	0.699	-0.2286	0.3409
age 35-44	0.0919	0.1446	0.64	0.525	-0.1916	0.3754
age 45-54	-0.0772	0.1401	-0.55	0.582	-0.3518	0.1975
age 55-64	-0.0340	0.1416	-0.24	0.81	-0.3116	0.2436
age 65-74	0.0695	0.1412	0.49	0.622	-0.2072	0.3463
age 75 up					Reference group	
SIMD Quintile 1	-0.2596	0.0971	-2.67	0.008	-0.4500	-0.0693
SIMD Quintile 2	-0.0752	0.0959	-0.78	0.433	-0.2632	0.1128
SIMD Quintile 3	-0.1874	0.1007	-1.86	0.063	-0.3847	0.0099
SIMD Quintile 4	0.1562	0.1098	1.42	0.155	-0.0590	0.3714
SIMD Quintile 5					Reference group	
SPARRA score at entry	0.0304	0.0019	15.83	0	0.0266	0.0341
intercept	7.2837	0.2274	32.04	0	6.8381	7.7293

Number of obs = 2,654
Log pseudo likelihood = -26881.3374

NB: Costs of emergency department visits and inpatient stays were calculated using values from Information Services Division (ISD), NHS Scotland in 2017. The average cost of an accident and emergency visit from 14 hospitals in Scotland was used to estimate cost per ED visit[1]. To estimate cost per day for inpatient stays within four specialties (general medicine, gastroenterology, respiratory medicine and general surgery (excluding vascular)), the mean local value across these four specialties was used, while for other specialities, an average local cost per day across all other specialties was used.

1 https://www.isdscotland.org/Health-Topics/Finance/Costs/Detailed-Tables/Speciality-Costs/index.asp

Supplemental table 2: Effects of the intervention on total cost of all types of admissions (both scheduled and unscheduled) based on generalized linear model with gamma distribution and robust standard errors

Variable	Coef.	Std.Err.	Z-stat	P-value	[95% Conf. Interval]	
intervention	-0.0593	0.0678	-0.87	0.382	-0.1921	0.0735
after	-0.0602	0.0934	-0.64	0.519	-0.2432	0.1228
intervention*after	-0.1781	0.1214	-1.47	0.143	-0.4160	0.0599
female	0.1958	0.0618	3.17	0.002	0.0747	0.3170
age 16-24	-0.5240	0.1617	-3.24	0.001	-0.8410	-0.2070
age 25-34	-0.4012	0.1562	-2.57	0.01	-0.7073	-0.0950
age 35-44	-0.3522	0.1515	-2.32	0.02	-0.6493	-0.0552
age 45-54	-0.2951	0.1549	-1.91	0.057	-0.5987	0.0084
age 55-64	-0.2252	0.1506	-1.5	0.135	-0.5205	0.0700
age 65-74	0.1240	0.1497	0.83	0.407	-0.1694	0.4174
age 75 up					Reference group	
SIMD Quintile 1	-0.2492	0.1211	-2.06	0.04	-0.4865	-0.0119
SIMD Quintile 2	-0.1699	0.1239	-1.37	0.17	-0.4126	0.0729
SIMD Quintile 3	-0.2290	0.1215	-1.88	0.059	-0.4671	0.0092
SIMD Quintile 4	0.0246	0.1288	0.19	0.848	-0.2278	0.2771
SIMD Quintile 5					Reference group	
SPARRA score at entry	0.0338	0.0026	12.84	0	0.0286	0.0390
intercept	7.8707	0.2854	27.58	0	7.3113	8.4300

Number of obs = 2,654
Log pseudo likelihood = -28666.77967
NB: All costs of visits and inpatient stays were calculated as explained in Supplemental table 1

Supplemental table 3: Predicted value of the total cost of admissions estimated at means of all other control variables based on the generalized linear model with gamma distribution and robust standard errors

	Predicted value	Delta-meth. Std. Err.	[95% Conf. Interval]	
Control group	19,984.57	1,064.94	17,897.33	22,071.82
Intervention group	17,230.03	618.20	16,018.38	18,441.68
Before	19,777.44	677.01	18,450.52	21,104.36
After	16,488.20	768.64	14,981.70	17,994.71
Control & Before	20,595.24	1,130.03	18,380.42	22,810.06
Control & After	19,392.01	1,625.72	16,205.66	22,578.37
Intervention & Before	19,409.82	817.39	17,807.77	21,011.87
Intervention & After	15,295.04	879.91	13,570.46	17,019.63