

Supplementary File 3: Subgroup analyses: interaction results (a) living alone and deprivation and b) living with someone with frailty and gender. Created by the authors

	A&E attendance			Emergency admissions		
	Rate ratio	95%CI	P value for interaction term	Rate ratio	95%CI	P value for interaction term
Living alone^a						
Living alone, IMD quintile 5 (least deprived, reference group)	1.11	(1.10 to 1.11)		1.17	(1.15 to 1.18)	
Living alone, IMD quintile 4	1.09	(1.08 to 1.10)	0.012	1.14	(1.13 to 1.16)	0.009
Living alone, IMD quintile 3	1.11	(1.10 to 1.12)	0.548	1.17	(1.15 to 1.18)	0.993
Living alone, IMD quintile 2	1.09	(1.08 to 1.10)	0.005	1.14	(1.13 to 1.15)	0.001
Living alone, IMD quintile 1 (most deprived)	1.07	(1.06 to 1.08)	<0.001	1.10	(1.09 to 1.11)	<0.001
Living with someone with frailty^b						
Living with someone with frailty, female (reference group)	1.08	(1.07 to 1.10)		1.10	(1.09 to 1.12)	
Living with someone with frailty, male	1.10	(1.09 to 1.11)	0.101	1.09	(1.08 to 1.11)	0.297

^aAdjusted for covariates listed in supplementary file 2, and interaction term for living alone and quintiles of deprivation.

^bAdjusted for covariates listed in supplementary file 2, and interaction term for living with someone with frailty and gender.