Table 2 Description of factors tested and explanatory power in the univariate linear regression

Factor	Source	Median (IQR)	Range	Pearson's R ²	p-value	Direction of correlation	
Population							
INCOME %	IMD 2010	15% (11,19)	7-33	60%	<0.001	+	
population in an	[17]						
area that live in							
income deprived							
families							
EMPLOY MENT %	IMD 2010	6% (5, 8)	3-12	72%	<0.001	+	
population with	[17]						
employment							
deprivation	ONG [40]	00/ (5.30)	2.62	00/	.0.004		
ETHNICITY %	ONS [19]	9% (5, 20)	3-63	9%	<0.001	+	
population minority							
ethnic	ONC [20]	70/ /7 0)	2 12	100/	40.001		
OVER75 %	ONS [20]	7% (7, 9)	3-13	18%	<0.001	-	
population aged 75							
or over ALONE %	ONS [21]	60/ /F 6\	3-8	<1%	0.547	+	
	ON3 [21]	6% (5, 6)	3-0	<170	0.547	+	
pensioners living alone							
Geography							
URBAN/RURAL	ONS [22]	No PCTs (%)		29%	<0.001	_	
major urban	0143 [22]	58 (39%)		2370	\0.001	_	
large urban		19 (13%)					
other urban		23 (15%)					
sign'nt rural		26 (17%)					
rural 50%		22 (15%)					
rural 80%		2 (1%)					
Health ⁺		,					
CHD prevalence	QOF [23]	4% (3, 4)	1-5	3%	0.032	+	
Coronary Heart		. , ,					
Disease							
COPD prevalence of	QOF [23]	2% (1, 2)	1-3	20%	<0.001	+	
COPD		· 					
DIABETES	QOF [23]	5% (5, 6)	3-9	18%	<0.001	+	
prevalence Diabetes							
Hospital							
MANAGEMENT/COD	HES [15]	28% (24, 30)	14-41	16%	<0.001	+	
ING							
% emergency							
admissions with							
length of stay <1 day			0.5.0-	401	0.155		
MANAGEMENT	Departme	62% (53,68)	35-98	1%	0.198	-	
% population	nt of						
waiting 4 or more	Health						
weeks for elective	[24]						
admission							

Emergency						
departments						
EDDEMAND Directly	NHS Atlas	275 (241,324)	149-	15%	<0.001	+
age sex and	of		909			
deprivation	Variation					
standardised rate of	2011 [18]					
ED attendances per						
100,000 population						
EDCONVERSION	NHS Atlas	100 (88,112)	70-148	7%	0.001	+
Directly age sex	of					
deprivation	Variation					
standardised rate of	2011 [18]					
conversion from ED						
attendance to						
emergency						
admissions						
Community	AULO ACT	10 (0.05)	4 40-	40/	0.010	
CAREHOME	NHS Atlas	12 (6, 29)	1-193	4%	0.013	+
Admission rate for	of					
people aged >74	Variation					
from nursing home	2011 [18]					
or residential care						
home settings per						
10,000						
General practice GPSUPPLY GPs per	London	69 (64, 75)	54-99	0%	0.855	+
100,000 population	Health	09 (04, 73)	34-33	0/6	0.633	т
100,000 population	Observat					
	ory [25]					
GPACCESS1 %GP	Informati	13% (7, 23)	0-48	17%	<0.001	+
single handed	on Centre	1370 (7, 23)	0 40	1770	10.001	·
Single nunded	[26]					
GPACCESS2 %		75% (69, 86)	39-100	0%	0.901	_
practices offering	nt of	10,1 (00) 00)	22 200	3,-	5.5 5 1	
extended opening	Health					
hours	[27]					
GPACCESS3 %able to	GP survey	80% (77,83)	71-89	25%	<0.001	-
see GP in 48 hours	[28]	, , ,				
GPADMISSION %	HES [15]	18% (7,26) 0		11%	<0.001	-
admissions from		, , ,				
general practice						
GP QUALITY QOF	QOF [23]	Six indicators		0-9%	<0.001 -	-\$
indicators		tested			0.570	
General Practice out						
of hours						
GPOOH1 % know	GP survey	66% (62, 69)	48-79	10%	<0.001	-
how to contact GP	[28]					
out of hours						
GPOOH2 %of GP	GP survey	38% (34-42)	20-55	1%	0.231	-
ooh users reporting	[28]					
'very easy' to						

contact by phone							
Ambulance service AMBRESPONSE %category A response within 8 minutes*	Informati on Centre [29]	75% (73, 75)	71-78	13%	<0.001	-	
AMBTRANSPORT %not transported to hospital*	Informati on Centre [29]	21% (16, 30)	8-34	35%	<0.001	-	

 $^{^{\}mbox{\tiny +}}$ prevalence of 3 of the 14 conditions in the age sex adjusted admission rate.