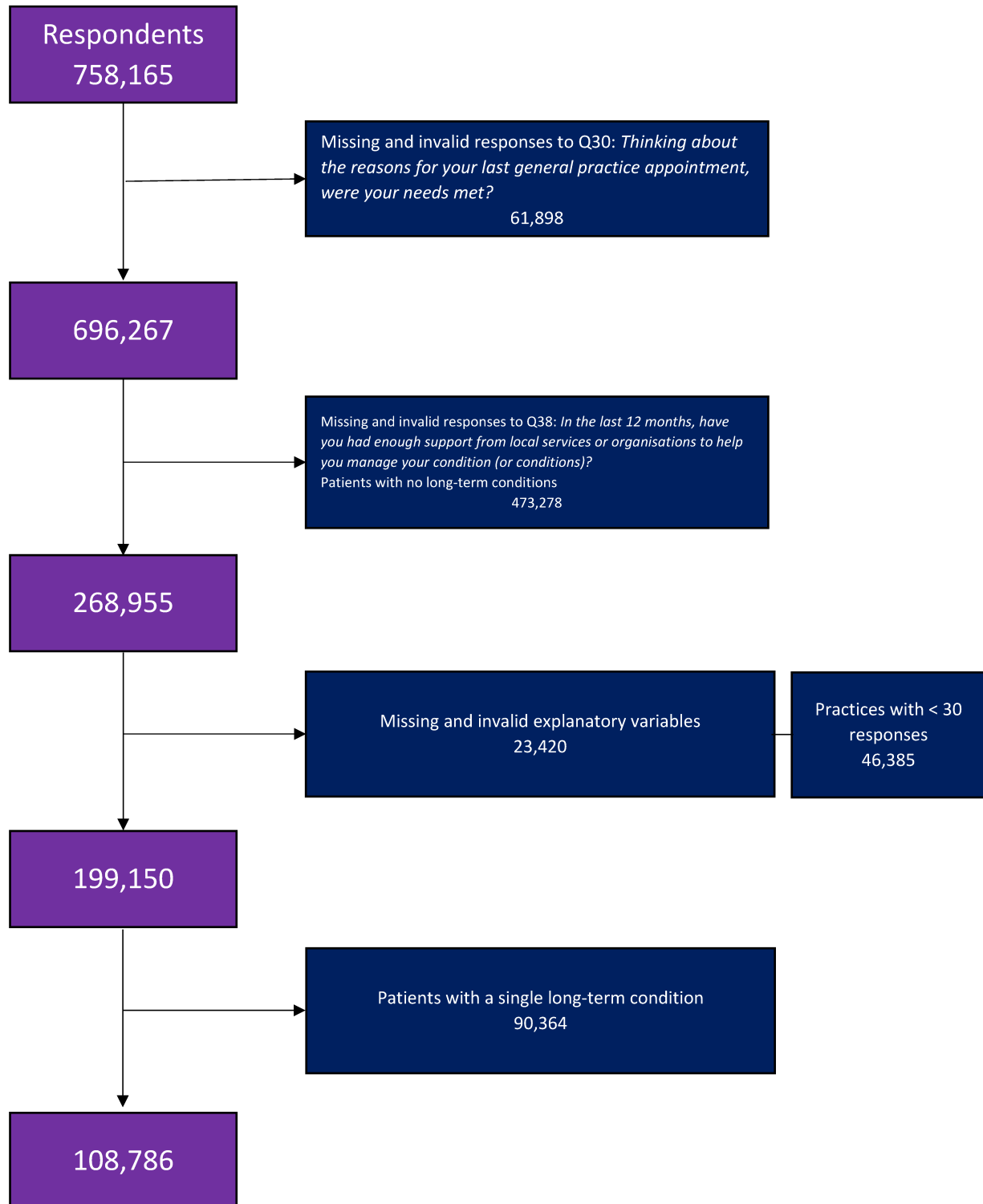


Appendix 1: Model exclusions diagram



Appendix 2: Unadjusted and adjusted odds ratios for patients' needs being fully met in their last GP appointment, controlling for patient and practice characteristics (n=199,150)

Variable	Label	Unadjusted model	Adjusted for socio-demographic factors	Adjusted for socio-demographic factors and complexity of need	Sensitivity analysis ¹ – adjusted for socio-demographic factors (n=657,169)
Number of LTCs	0				1.10* [1.08,1.11]
Number of LTCs	1	ref	ref	ref	ref
Number of LTCs	2	0.98 [0.96,1.01]	0.86* [0.84,0.89]	1.01 [0.98,1.03]	0.89* [0.88,0.91]
Number of LTCs	3	0.93* [0.91,0.96]	0.77* [0.75,0.79]	1.02 [0.99,1.06]	0.80* [0.78,0.81]
Number of LTCs	4	0.87* [0.84,0.91]	0.70* [0.67,0.73]	1.03 [0.99,1.07]	0.72* [0.70,0.74]
Number of LTCs	5+	0.80* [0.76,0.83]	0.63* [0.60,0.66]	1.04 [0.99,1.09]	0.65* [0.62,0.67]
Gender	Male	ref	ref	ref	ref
Gender	Female	0.91* [0.90,0.93]	0.96* [0.94,0.98]	0.99 [0.97,1.01]	1.00 [0.99,1.01]
Age Band	45 to 54	ref	ref	ref	ref
Age Band	16 to 24	0.63* [0.60,0.67]	0.61* [0.57,0.64]	0.66* [0.62,0.70]	0.74* [0.72,0.76]
Age Band	25 to 34	0.73* [0.70,0.77]	0.72* [0.68,0.75]	0.77* [0.73,0.81]	0.79* [0.77,0.81]
Age Band	35 to 44	0.86* [0.82,0.89]	0.85* [0.82,0.89]	0.88* [0.85,0.92]	0.87* [0.85,0.89]
Age Band	55 to 64	1.17* [1.13,1.20]	1.18* [1.14,1.21]	1.09* [1.05,1.12]	1.17* [1.15,1.19]
Age Band	65 to 74	1.51* [1.46,1.56]	1.50* [1.45,1.55]	1.20* [1.16,1.24]	1.51* [1.48,1.54]
Age Band	75 to 84	1.52* [1.47,1.57]	1.56* [1.50,1.62]	1.30* [1.25,1.35]	1.63* [1.59,1.67]
Age Band	85 or over	1.36* [1.29,1.42]	1.46* [1.38,1.53]	1.39* [1.32,1.47]	1.50* [1.45,1.56]
Ethnicity	White	ref	ref	ref	ref
Ethnicity	Mixed	0.73* [0.65,0.81]	0.60* [0.57,0.63]	0.60* [0.57,0.63]	0.84* [0.80,0.88]
Ethnicity	Asian	0.54* [0.52,0.57]	0.78* [0.72,0.84]	0.74* [0.68,0.80]	0.62* [0.61,0.64]
Ethnicity	Black	0.69* [0.64,0.75]	0.89* [0.80,1.00]	0.92 [0.82,1.03]	0.83* [0.81,0.86]
Ethnicity	Other	0.59* [0.53,0.65]	0.65* [0.58,0.72]	0.68* [0.61,0.76]	0.70* [0.67,0.73]
Deprivation Quintile	5 (Least deprived)	ref	ref	ref	ref
Deprivation Quintile	1 (Most deprived)	0.77* [0.74,0.80]	0.84* [0.81,0.86]	0.93* [0.90,0.97]	0.84* [0.82,0.86]

¹ This analysis extends the sample to include patients with no long-term conditions.

Deprivation Quintile	2	0.83* [0.81,0.86]	0.88* [0.85,0.91]	0.94* [0.91,0.97]	0.88* [0.87,0.90]
Deprivation Quintile	3	0.93* [0.90,0.96]	0.95* [0.92,0.98]	0.99 [0.96,1.02]	0.94* [0.92,0.96]
Deprivation Quintile	4	0.97 [0.94,1.00]	0.98 [0.95,1.01]	1.00 [0.97,1.03]	0.98* [0.96,0.99]
Employment Status	Employed	ref	ref	ref	ref
Employment Status	Not in employment	1.26* [1.23,1.28]	1.06* [1.04,1.09]	1.31* [1.28,1.35]	1.09* [1.07,1.10]
Practice Size	1 (Smallest)	ref	ref	ref	ref
Practice Size	2	0.92* [0.86,0.99]	0.93* [0.87,0.99]	0.93* [0.87,0.99]	0.92* [0.89,0.96]
Practice Size	3	0.87* [0.81,0.93]	0.85* [0.80,0.91]	0.86* [0.80,0.92]	0.89* [0.85,0.92]
Practice Size	4	0.86* [0.80,0.92]	0.84* [0.78,0.89]	0.84* [0.78,0.89]	0.87* [0.83,0.90]
Practice Size	5	0.82* [0.76,0.88]	0.79* [0.74,0.85]	0.79* [0.74,0.85]	0.85* [0.82,0.89]
Practice Size	6	0.78* [0.72,0.84]	0.75* [0.70,0.81]	0.75* [0.70,0.81]	0.83* [0.79,0.86]
Practice Size	7 (Largest)	0.73* [0.65,0.81]	0.70* [0.63,0.77]	0.71* [0.64,0.78]	0.78* [0.73,0.83]
Frailty (Mobility)	No	ref		ref	
Frailty (Mobility)	Yes	0.69* [0.68,0.71]		0.84* [0.82,0.86]	
Frailty (Falls)	No	ref		ref	
Frailty (Falls)	Yes	0.69* [0.66,0.72]		0.83* [0.79,0.87]	
Frailty (Isolation)	No	ref		ref	
Frailty (Isolation)	Yes	0.40* [0.39,0.41]		0.53* [0.51,0.55]	
Activities of Daily living	No, not at all	ref		ref	
Activities of Daily living	Yes, a lot	0.47* [0.46,0.49]		0.54* [0.52,0.55]	
Activities of Daily living	Yes, a little	0.54* [0.53,0.56]		0.57* [0.55,0.58]	

Appendix 3: Unadjusted and adjusted odds ratios for patients feeling fully supported by local services to manage their condition(s), controlling for patient and area characteristics (n=199,150)

Variable	Label	Unadjusted model	Adjusted for socio-demographic factors	Adjusted for socio-demographic factors and complexity of need
Number of LTCs	1	ref	ref	ref
Number of LTCs	2	0.83* [0.81,0.85]	0.71* [0.70,0.73]	0.93* [0.90,0.95]
Number of LTCs	3	0.66* [0.64,0.68]	0.54* [0.52,0.55]	0.88* [0.86,0.91]
Number of LTCs	4	0.54* [0.52,0.56]	0.43* [0.42,0.45]	0.86* [0.82,0.89]
Number of LTCs	5+	0.45* [0.43,0.47]	0.35* [0.33,0.36]	0.84* [0.80,0.88]
Gender	Male	ref	ref	ref
Gender	Female	0.82* [0.80,0.83]	0.86* [0.85,0.88]	0.90* [0.88,0.92]
Age Band	45 to 54	ref	ref	ref
Age Band	16 to 24	0.62* [0.58,0.66]	0.62* [0.58,0.66]	0.68* [0.64,0.73]
Age Band	25 to 34	0.69* [0.66,0.72]	0.65* [0.62,0.69]	0.70* [0.67,0.74]
Age Band	35 to 44	0.79* [0.76,0.83]	0.77* [0.74,0.80]	0.79* [0.76,0.83]
Age Band	55 to 64	1.22* [1.18,1.25]	1.35* [1.31,1.39]	1.21* [1.17,1.25]
Age Band	65 to 74	1.66* [1.61,1.70]	2.13* [2.06,2.20]	1.53* [1.48,1.59]
Age Band	75 to 84	1.48* [1.44,1.53]	2.11* [2.03,2.19]	1.63* [1.57,1.70]
Age Band	85 or over	1.11* [1.06,1.16]	1.72* [1.63,1.80]	1.67* [1.58,1.76]
Ethnicity	White	ref	ref	ref
Ethnicity	Asian	0.53* [0.51,0.56]	0.57* [0.54,0.60]	0.57* [0.54,0.60]
Ethnicity	Black	0.59* [0.55,0.63]	0.66* [0.61,0.72]	0.58* [0.53,0.64]
Ethnicity	Mixed	0.64* [0.58,0.71]	0.81* [0.72,0.91]	0.83* [0.74,0.93]
Ethnicity	Other	0.55* [0.50,0.61]	0.60* [0.54,0.67]	0.66* [0.58,0.74]
Deprivation Quintile	5 (Least deprived)	ref	ref	ref
Deprivation Quintile	1 (Most deprived)	0.62* [0.60,0.64]	0.73* [0.70,0.75]	0.88* [0.85,0.91]
Deprivation Quintile	2	0.73* [0.71,0.75]	0.81* [0.79,0.84]	0.92* [0.89,0.95]
Deprivation Quintile	3	0.85* [0.83,0.88]	0.90* [0.87,0.92]	0.96* [0.93,0.99]
Deprivation Quintile	4	0.95* [0.92,0.97]	0.96* [0.93,0.99]	1.00 [0.97,1.03]

Employment Status	Employed	ref	ref	ref
Employment Status	Not in employment	1.02* [1.00,1.04]	0.82* [0.80,0.84]	1.18* [1.15,1.21]
Practice Size	1 (Smallest)	ref	ref	ref
Practice Size	2	0.92* [0.87,0.97]	0.92* [0.87,0.97]	0.92* [0.86,0.97]
Practice Size	3	0.89* [0.84,0.94]	0.86* [0.82,0.91]	0.86* [0.81,0.91]
Practice Size	4	0.85* [0.80,0.90]	0.82* [0.78,0.87]	0.81* [0.76,0.86]
Practice Size	5	0.84* [0.79,0.88]	0.80* [0.75,0.84]	0.79* [0.74,0.84]
Practice Size	6	0.79* [0.75,0.84]	0.76* [0.71,0.80]	0.75* [0.70,0.80]
Practice Size	7 (Largest)	0.76* [0.69,0.82]	0.73* [0.67,0.80]	0.73* [0.67,0.80]
Frailty (Mobility)	No	ref		ref
Frailty (Mobility)	Yes	0.44* [0.43,0.44]		0.76* [0.74,0.78]
Frailty (Falls)	No	ref		ref
Frailty (Falls)	Yes	0.58* [0.56,0.60]		0.97 [0.92,1.02]
Frailty (Isolation)	No	ref		ref
Frailty (Isolation)	Yes	0.24* [0.23,0.25]		0.43* [0.41,0.45]
Activities of Daily living	No, not at all	ref		ref
Activities of Daily living	Yes, a lot	0.19* [0.19,0.20]		0.24* [0.23,0.25]
Activities of Daily living	Yes, a little	0.31* [0.31,0.32]		0.34* [0.33,0.35]

Appendix 4: Differences in reports of unmet need in patients' last GP appointment between different patient groups and practices

Variable	Label	Overall odds (standard errors)	Within-practice odds (standard errors)	Between-practice difference	Between-practice difference (%)	Odds Ratio	Odds Ratio (with clustering for practice)
Number of LTCs	2	0.0045 (0.0125)	0.0055 (0.0127)	-0.001	-22.2%	1.01 [0.98, 1.03]	1.01 [0.98,1.03]
Number of LTCs	3	0.0204 (0.0157)	0.0244 (0.0160)	-0.004	-19.6%	1.02 [0.99, 1.05]	1.02 [0.99,1.06]
Number of LTCs	4	0.0225 (0.0209)	0.0295 (0.0212)	-0.007	-31.1%	1.02 [0.98, 1.07]	1.03 [0.99,1.07]
Number of LTCs	5+	0.0280 (0.0246)	0.0356 (0.0250)	-0.0076	-27.1%	1.03 [0.98, 1.08]	1.04 [0.99,1.09]
Number of LTCs	1	ref	ref	ref	ref	ref	ref
Gender	Female	-0.014 (0.0099)	-0.014 (0.0101)	0	0.0%	0.99 [0.97, 1.01]	0.99 [0.97,1.01]
Gender	Male	ref	ref	ref	ref	ref	ref
Age Band	16 to 24	-0.416 (0.0313)	-0.422 (0.0318)	0.006	-1.4%	0.66* [0.62, 0.70]	0.66* [0.62,0.70]
Age Band	25 to 34	-0.263 (0.0250)	-0.265 (0.0255)	0.002	-0.8%	0.77* [0.73, 0.81]	0.77* [0.73,0.81]
Age Band	35 to 44	-0.124 (0.0210)	-0.124 (0.0213)	0	0.0%	0.88* [0.85, 0.92]	0.88* [0.85,0.92]
Age Band	55 to 64	0.0790 (0.0160)	0.0826 (0.0162)	-0.0036	-4.6%	1.08* [1.05, 1.12]	1.09* [1.05,1.12]
Age Band	65 to 74	0.177 (0.0178)	0.182 (0.0181)	-0.005	-2.8%	1.19* [1.15, 1.24]	1.20* [1.16,1.24]
Age Band	75 to 84	0.254 (0.0204)	0.260 (0.0207)	-0.006	-2.4%	1.29* [1.24, 1.34]	1.30* [1.25,1.35]
Age Band	85 or over	0.323 (0.0270)	0.328 (0.0275)	-0.005	-1.5%	1.38* [1.31, 1.46]	1.39* [1.32,1.47]
Age Band	45 to 54	ref	ref	ref	ref	ref	ref
Ethnicity	Asian	-0.539 (0.0255)	-0.513 (0.0269)	-0.026	4.8%	0.58* [0.56, 0.61]	0.60* [0.57,0.63]
Ethnicity	Black	-0.341 (0.0399)	-0.303 (0.0412)	-0.038	11.1%	0.71* [0.66, 0.77]	0.74* [0.68,0.80]
Ethnicity	Mixed	-0.100 (0.0560)	-0.084 (0.0570)	-0.016	16.0%	0.91 [0.81, 1.01]	0.92 [0.82,1.03]
Ethnicity	Other	-0.397 (0.0538)	-0.385 (0.0551)	-0.012	3.0%	0.67* [0.61, 0.75]	0.68* [0.61,0.76]
Ethnicity	White	ref	ref	ref	ref	ref	ref

Deprivation Quintile	1 (Most deprived)	-0.094 (0.0162)	-0.069 (0.0179)	-0.025	26.6%	0.91* [0.88, 0.94]	0.93* [0.90,0.97]
Deprivation Quintile	2	-0.082 (0.0161)	-0.059 (0.0174)	-0.023	28.0%	0.92* [0.89, 0.95]	0.94* [0.91,0.97]
Deprivation Quintile	3	-0.011 (0.0157)	-0.009 (0.0167)	-0.002	18.2%	0.99 [0.96, 1.02]	0.99 [0.96,1.02]
Deprivation Quintile	4	-0.002 (0.0157)	-0.002 (0.0164)	0	0.0%	1.00 [0.97, 1.03]	1.00 [0.97,1.03]
Deprivation Quintile	5 (Least deprived)	ref	ref	ref	ref	ref	ref
Employment Status	Not in employment	0.269 (0.0133)	0.273 (0.0135)	-0.004	-1.5%	1.31* [1.28, 1.34]	1.31* [1.28,1.35]
Employment Status	Employed	ref	ref	ref	ref	ref	ref
Practice Size	2	-0.071 (0.0261)	-0.072 (0.0340)	0.001	-1.4%	0.93* [0.89, 0.98]	0.93* [0.87,0.99]
Practice Size	3	-0.152 (0.0259)	-0.153 (0.0338)	0.001	-0.7%	0.86* [0.82, 0.90]	0.86* [0.80,0.92]
Practice Size	4	-0.179 (0.0264)	-0.179 (0.0344)	0	0.0%	0.84* [0.79, 0.88]	0.84* [0.78,0.89]
Practice Size	5	-0.234 (0.0270)	-0.233 (0.0352)	-0.001	0.4%	0.79* [0.75, 0.83]	0.79* [0.74,0.85]
Practice Size	6	-0.282 (0.0274)	-0.284 (0.0358)	0.002	-0.7%	0.75* [0.72, 0.80]	0.75* [0.70,0.81]
Practice Size	7 (Largest)	-0.347 (0.0388)	-0.349 (0.0512)	0.002	-0.6%	0.71* [0.66, 0.76]	0.71* [0.64,0.78]
Practice Size	1 (Smallest)	ref	ref	ref	ref	ref	ref
Frailty (Mobility)	Yes	-0.169 (0.0132)	-0.173 (0.0134)	0.004	-2.4%	0.85* [0.82, 0.87]	0.84* [0.82,0.86]
Frailty (Mobility)	No	ref	ref	ref	ref	ref	ref
Frailty (Falls)	Yes	-0.189 (0.0238)	-0.189 (0.0242)	0	0.0%	0.83* [0.79, 0.87]	0.83* [0.79,0.87]
Frailty (Falls)	No	ref	ref	ref	ref	ref	ref
Frailty (Isolation)	Yes	-0.622 (0.0168)	-0.634 (0.0171)	0.012	-1.9%	0.54* [0.52, 0.56]	0.53* [0.51,0.55]
Frailty (Isolation)	No	ref	ref	ref	ref	ref	ref
Activities of Daily living	Yes, a lot	-0.620 (0.0169)	-0.625 (0.0172)	0.005	-0.8%	0.54* [0.52, 0.56]	0.54* [0.52,0.55]

Activities of Daily living	Yes, a little	-0.562 (0.0122)	-0.566 (0.0123)	0.004	-0.7%	0.57* [0.56, 0.58]	0.57* [0.55,0.58]
Activities of Daily living	No, not at all	ref	ref	ref	ref	ref	ref

Appendix 5: Differences in reports of feeling supported by local services between different patient groups and practices

Variable	Label	Overall odds (standard errors)	Within-practice odds (standard errors)	Between- practice difference	Between- practice difference (%)	Odds Ratio	Odds Ratio (with clustering for practice)
Number of LTCs	2	-0.079 (0.0122)	-0.078 (0.0124)	-0.001	1.3%	0.93* [0.90, 0.95]	0.93* [0.90, 0.95]
Number of LTCs	3	-0.128 (0.0155)	-0.126 (0.0157)	-0.002	1.6%	0.88* [0.86, 0.91]	0.88* [0.86, 0.91]
Number of LTCs	4	-0.159 (0.0209)	-0.155 (0.0211)	-0.004	2.5%	0.86* [0.82, 0.89]	0.86* [0.82, 0.89]
Number of LTCs	5+	-0.182 (0.0253)	-0.179 (0.0256)	-0.003	1.6%	0.84* [0.80, 0.88]	0.84* [0.80, 0.88]
Number of LTCs	1	ref	ref	ref	ref	ref	ref
Gender	Female	-0.102 (0.0098)	-0.104 (0.0099)	0.002	-2.0%	0.90* [0.89, 0.92]	0.90* [0.88, 0.92]
Gender	Male	ref	ref	ref	ref	ref	ref
Age Band	16 to 24	-0.380 (0.0342)	-0.384 (0.0345)	0.004	-1.1%	0.68* [0.64, 0.73]	0.68* [0.64, 0.73]
Age Band	25 to 34	-0.346 (0.0268)	-0.350 (0.0271)	0.004	-1.2%	0.71* [0.67, 0.74]	0.71* [0.67, 0.74]
Age Band	35 to 44	-0.227 (0.0219)	-0.229 (0.0221)	0.002	-0.9%	0.79* [0.76, 0.83]	0.80* [0.76, 0.83]
Age Band	55 to 64	0.189 (0.0162)	0.191 (0.0163)	-0.002	-1.1%	1.21* [1.17, 1.25]	1.21* [1.17, 1.25]
Age Band	65 to 74	0.423 (0.0179)	0.428 (0.0181)	-0.005	-1.2%	1.53* [1.48, 1.59]	1.53* [1.48, 1.59]
Age Band	75 to 84	0.487 (0.0202)	0.489 (0.0205)	-0.002	-0.4%	1.63* [1.57, 1.70]	1.63* [1.57, 1.70]
Age Band	85 or over	0.511 (0.0266)	0.513 (0.0269)	-0.002	-0.4%	1.67* [1.59, 1.76]	1.67* [1.59, 1.76]
Age Band	45 to 54	ref	ref	ref	ref	ref	ref
Ethnicity	Asian	-0.622 (0.0281)	-0.596 (0.0291)	-0.026	4.2%	0.57* [0.54, 0.60]	0.55* [0.52, 0.58]
Ethnicity	Black	-0.607 (0.0433)	-0.578 (0.0442)	-0.029	4.8%	0.58* [0.53, 0.64]	0.56* [0.51, 0.61]
Ethnicity	Mixed	-0.214 (0.0593)	-0.200 (0.0600)	-0.014	6.5%	0.83* [0.74, 0.93]	0.82* [0.73, 0.92]
Ethnicity	Other	-0.461 (0.0593)	-0.444 (0.0602)	-0.017	3.7%	0.66* [0.58, 0.74]	0.64* [0.57, 0.72]
Ethnicity	White	ref	ref	ref	ref	ref	ref
Deprivation Quintile	1 (Most deprived)	-0.161 (0.0161)	-0.139 (0.0173)	-0.022	13.7%	0.88* [0.85, 0.91]	0.87* [0.84, 0.90]
Deprivation Quintile	2	-0.119 (0.0158)	-0.099 (0.0168)	-0.02	16.8%	0.92* [0.89, 0.95]	0.91* [0.88, 0.94]

Deprivation Quintile	3	-0.044 (0.0152)	-0.043 (0.0160)	-0.001	2.3%	0.96* [0.93, 0.99]	0.96* [0.93, 0.99]
Deprivation Quintile	4	-0.008 (0.0151)	-0.006 (0.0157)	-0.002	25.0%	1.00 [0.97, 1.03]	0.99 [0.96, 1.03]
Deprivation Quintile	5 (Least deprived)	ref	ref	ref	ref	ref	ref
Employment Status	Not in employment	0.165 (0.0134)	0.166 (0.0135)	-0.001	-0.6%	1.18* [1.15, 1.21]	1.18* [1.15, 1.21]
Employment Status	Employed	ref	ref	ref	ref	ref	ref
Practice Size	2	-0.085 (0.0252)	-0.087 (0.0308)	0.002	-2.4%	0.92* [0.86, 0.97]	0.92* [0.86, 0.97]
Practice Size	3	-0.140 (0.0251)	-0.140 (0.0306)	0	0.0%	0.86* [0.81, 0.91]	0.87* [0.82, 0.92]
Practice Size	4	-0.198 (0.0255)	-0.198 (0.0312)	0	0.0%	0.81* [0.76, 0.86]	0.82* [0.77, 0.87]
Practice Size	5	-0.230 (0.0262)	-0.229 (0.0320)	-0.001	0.4%	0.79* [0.74, 0.84]	0.80* [0.75, 0.85]
Practice Size	6	-0.277 (0.0266)	-0.276 (0.0326)	-0.001	0.4%	0.75* [0.70, 0.80]	0.76* [0.71, 0.81]
Practice Size	7 (Largest)	-0.277 (0.0385)	-0.276 (0.0471)	-0.001	0.4%	0.73* [0.67, 0.80]	0.76* [0.69, 0.83]
Practice Size	1 (Smallest)	ref	ref	ref	ref	ref	ref
Frailty (Mobility)	Yes	-0.265 (0.0133)	-0.269 (0.0135)	0.004	-1.5%	0.76* [0.74, 0.78]	0.76* [0.74, 0.79]
Frailty (Mobility)	No	ref	ref	ref	ref	ref	ref
Frailty (Falls)	Yes	-0.038 (0.0251)	-0.036 (0.0253)	-0.002	5.3%	0.97 [0.92, 1.02]	0.97 [0.92, 1.01]
Frailty (Falls)	No	ref	ref	ref	ref	ref	ref
Frailty (Isolation)	Yes	-0.833 (0.0202)	-0.842 (0.0204)	0.009	-1.1%	0.43* [0.41, 0.45]	0.43* [0.41, 0.45]
Frailty (Isolation)	No	ref	ref	ref	ref	ref	ref
Activities of Daily living	Yes, a lot	-1.401 (0.0168)	-1.416 (0.0170)	0.015	-1.1%	0.24* [0.24, 0.25]	0.24* [0.24, 0.25]
Activities of Daily living	Yes, a little	-1.073 (0.0116)	-1.084 (0.0118)	0.011	-1.0%	0.34* [0.33, 0.35]	0.34* [0.33, 0.35]
Activities of Daily living	No, not at all	ref	ref	ref	ref	ref	ref

Appendix 6: Differences in reports of feeling supported by local services between different patient groups and areas

Variable	Label	Overall odds (standard errors)	Within local authority and practice odds (standard errors)	Between- LA/practice difference	Between- LA/practice difference (%)	Odds Ratio	Odds Ratio (with clustering for LA/practice)
Number of LTCs	2	-0.079 (0.0122)	-0.077 (0.0124)	-0.002	2.5%	0.93* [0.90, 0.95]	0.93* [0.90,0.95]
Number of LTCs	3	-0.128 (0.0155)	-0.125 (0.0157)	-0.003	2.3%	0.88* [0.86, 0.91]	0.88* [0.86,0.91]
Number of LTCs	4	-0.159 (0.0209)	-0.154 (0.0211)	-0.005	3.1%	0.86* [0.82, 0.89]	0.86* [0.82,0.89]
Number of LTCs	5+	-0.182 (0.0253)	-0.177 (0.0256)	-0.005	2.7%	0.84* [0.80, 0.88]	0.84* [0.80,0.88]
Number of LTCs	1	ref	ref	ref	ref	ref	ref
Gender	Female	-0.102 (0.0098)	-0.103 (0.0099)	0.001	-1.0%	0.90* [0.89, 0.92]	0.90* [0.88,0.92]
Gender	Male	ref	ref	ref	ref	ref	ref
Age Band	16 to 24	-0.380 (0.0342)	-0.382 (0.0345)	0.002	-0.5%	0.68* [0.64, 0.73]	0.68* [0.64,0.73]
Age Band	25 to 34	-0.346 (0.0268)	-0.350 (0.0270)	0.004	-1.2%	0.71* [0.67, 0.74]	0.70* [0.67,0.74]
Age Band	35 to 44	-0.227 (0.0219)	-0.230 (0.0221)	0.003	-1.3%	0.79* [0.76, 0.83]	0.79* [0.76,0.83]
Age Band	55 to 64	0.189 (0.0162)	0.190 (0.0163)	-0.001	-0.5%	1.21* [1.17, 1.25]	1.21* [1.17,1.25]
Age Band	65 to 74	0.423 (0.0179)	0.425 (0.0181)	-0.002	-0.5%	1.53* [1.48, 1.59]	1.53* [1.48,1.59]
Age Band	75 to 84	0.487 (0.0202)	0.488 (0.0205)	-0.001	-0.2%	1.63* [1.57, 1.70]	1.63* [1.57,1.70]
Age Band	85 or over	0.511 (0.0266)	0.513 (0.0269)	-0.002	-0.4%	1.67* [1.59, 1.76]	1.67* [1.58,1.76]
Age Band	45 to 54	ref	ref	ref	ref	ref	ref
Ethnicity	Asian	-0.622 (0.0281)	-0.562 (0.0295)	-0.06	9.6%	0.57* [0.54, 0.60]	0.57* [0.54,0.60]
Ethnicity	Black	-0.607 (0.0433)	-0.540 (0.0445)	-0.067	11.0%	0.58* [0.53, 0.64]	0.58* [0.53,0.64]
Ethnicity	Mixed	-0.214 (0.0593)	-0.190 (0.0601)	-0.024	11.2%	0.83* [0.74, 0.93]	0.83* [0.74,0.93]
Ethnicity	Other	-0.461 (0.0593)	-0.419 (0.0603)	-0.042	9.1%	0.66* [0.58, 0.74]	0.66* [0.58,0.74]
Ethnicity	White	ref	ref	ref	ref	ref	ref
Deprivation Quintile	1 (Most deprived)	-0.161 (0.0161)	-0.126 (0.0183)	-0.035	21.7%	0.88* [0.85, 0.91]	0.88* [0.85,0.91]

Deprivation Quintile	2	-0.119 (0.0158)	-0.087 (0.0173)	-0.032	26.9%	0.92* [0.89, 0.95]	0.92* [0.89,0.95]
Deprivation Quintile	3	-0.044 (0.0152)	-0.039 (0.0163)	-0.005	11.4%	0.96* [0.93, 0.99]	0.96* [0.93,0.99]
Deprivation Quintile	4	-0.008 (0.0151)	-4E-4 (0.0158)	-0.0076	95.0%	1.00 [0.97, 1.03]	1.00 [0.97,1.03]
Deprivation Quintile	5 (Least deprived)	ref	ref	ref	ref	ref	ref
Employment Status	Not in employment	0.165 (0.0134)	0.165 (0.0135)	0	0.0%	1.18* [1.15, 1.21]	1.18* [1.15,1.21]
Employment Status	Employed	ref	ref	ref	ref	ref	ref
Practice Size	2	-0.085 (0.0252)	-0.088 (0.0293)	0.003	-3.5%	0.92* [0.86, 0.97]	0.92* [0.86,0.97]
Practice Size	3	-0.140 (0.0251)	-0.150 (0.0294)	0.01	-7.1%	0.86* [0.81, 0.91]	0.86* [0.81,0.91]
Practice Size	4	-0.198 (0.0255)	-0.213 (0.0300)	0.015	-7.6%	0.81* [0.76, 0.86]	0.81* [0.76,0.86]
Practice Size	5	-0.230 (0.0262)	-0.241 (0.0308)	0.011	-4.8%	0.79* [0.74, 0.84]	0.79* [0.74,0.84]
Practice Size	6	-0.277 (0.0266)	-0.290 (0.0315)	0.013	-4.7%	0.75* [0.70, 0.80]	0.75* [0.70,0.80]
Practice Size	7 (Largest)	-0.277 (0.0385)	-0.315 (0.0456)	0.038	-13.7%	0.73* [0.67, 0.80]	0.73* [0.67,0.80]
Practice Size	1 (Smallest)	ref	ref	ref	ref	ref	ref
Frailty (Mobility)	Yes	-0.265 (0.0133)	-0.270 (0.0135)	0.005	-1.9%	0.76* [0.74, 0.78]	0.76* [0.74,0.78]
Frailty (Mobility)	No	ref	ref	ref	ref	ref	ref
Frailty (Falls)	Yes	-0.038 (0.0251)	-0.035 (0.0253)	-0.003	7.9%	0.97 [0.92, 1.02]	0.97 [0.92,1.02]
Frailty (Falls)	No	ref	ref	ref	ref	ref	ref
Frailty (Isolation)	Yes	-0.833 (0.0202)	-0.843 (0.0204)	0.01	-1.2%	0.43* [0.41, 0.45]	0.43* [0.41,0.45]
Frailty (Isolation)	No	ref	ref	ref	ref	ref	ref
Activities of Daily living	Yes, a lot	-1.401 (0.0168)	-1.416 (0.0170)	0.015	-1.1%	0.24* [0.24, 0.25]	0.24* [0.23,0.25]
Activities of Daily living	Yes, a little	-1.073 (0.0116)	-1.085 (0.0118)	0.012	-1.1%	0.34* [0.33, 0.35]	0.34* [0.33,0.35]

Activities of Daily living	No, not at all	ref	ref	ref	ref	ref	ref
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