

CHD Prevalence, Hospital Admissions and Mortality: Variations between GP Practices and Neighbourhoods

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Background

- 1.1 Coronary heart disease (CHD) is a major cause of morbidity and mortality, and is a public health priority. CHD is responsible for 46% of CVD-related deaths and, by itself, CHD is the most common cause of death in the UK. Coronary heart disease manifests itself in two main forms: angina and heart attack. It is usually caused by a build-up of fatty deposits (atheroma) on the walls of the coronary arteries. The build-up of such deposits makes the arteries narrower and restricts the flow of blood to the heart, a process known as atherosclerosis. Factors that increase the risk of developing atherosclerosis include smoking, high blood pressure, high blood cholesterol, lack of regular exercise, diabetes, being overweight, and a family history of CHD.
- 1.2 CHD is a leading reason for admission to hospital and in particular for unplanned emergency admissions. In 2010-11, emergency admissions for CHD (defined by ICD10 categories I20-I25 inclusive) amounted for 1 in 30 of all emergency hospital episodes in England. The treatment of CHD in primary and community care settings may affect hospitalisation levels, since factors such as managing risk in individuals, and ensuring access to good-quality care are amenable to intervention at clinical and policy levels. Admissions for ambulatory-care-sensitive conditions (ACSCs) are those that would ideally have been prevented by provision of care outside hospital, and angina is included as an ambulatory-care-sensitive condition¹.
- 1.3 CHD prevalence and certain aspects of CHD primary care are monitored under the Quality Outcomes Framework (QOF) system. However, there is evidence that recorded totals of CHD prevalence underestimate the true disease burden. The 2010-11 QOF returns show 1.9 million CHD cases in England whereas expected prevalence is around 2.44 million^{2,3}. In London, around 190,000 CHD cases are recorded by QOF compared to 290,000 expected.
- 1.4 This report considers recent variations in CHD prevalence, emergency admissions and mortality between GP practices and neighbourhoods, with a focus on Barking & Dagenham and Havering PCTs, but with comparisons against England, London and other parts of North East London. Around 3 in 5 CHD admissions in these two PCTs in 2010/11 were emergencies (58% in Barking & Dagenham, 60% in Havering), compared to 50% nationally.

2 CHD Prevalence Trends, and Comparisons between Recorded and Expected Prevalence

- 2.1 Table 1 and Figure 1 show a slight decline in both total cases and the percentage level of CHD prevalence as recorded by the Quality Outcomes Framework. This is true across England, where the percentage of the population with CHD fell from 3.5% in 2007/08 to 3.4% in 2010/11, and in both Havering and Barking and Dagenham, though Barking in Dagenham the prevalence decline is more marked. Trends in the community prevalence of CHD are determined by several factors including incidence of new disease, improved survival after onset or after acute events (e.g. after heart attack), and demographic trends. A fall in CHD incidence by itself would reduce prevalence, while improved survival and an aging population would tend to increase it. A fall in CHD prevalence may to some extent be anticipated from research evidence: that angina symptom prevalence is falling in parallel with acute event (e.g. heart attack) rates, but survival

chances after heart attack have improved and the prevalence of history of diagnosed CHD is stable^{4,5}. On the other hand, there are upward trends in prevalence for major CHD risk factors such as obesity and hypertension.

- 2.2 As to current prevalence (in 2010/11), Table 1 shows a lower recorded CHD prevalence in Barking and Dagenham than nationally, while Havering has a rate closer to that in England as a whole but still lower than the national average. However, in terms of recorded CHD prevalence levels across London (see Table 2 and Figure 2), Havering has the highest recorded CHD prevalence rate. It may be noted that Bromley, another relatively affluent PCT, has the second highest prevalence rate in London. Whether the high rate in Havering is a genuine reflection of differences in disease levels is debatable, given associations between CHD and socioeconomic deprivation, and between CHD and ethnic mix.
- 2.3 High apparent CHD prevalence in Havering may be linked to the tendency for deficient case-finding for CHD to be greater in deprived areas⁶. Other issues with CHD recording have been reported: such as a substantial level of recording coronary heart disease status or events with codes that do not distinguish between different clinical presentations of CHD⁷.
- 2.4 By contrast to recorded CHD prevalence from the QOF, modelled prevalence estimates⁸ from ERPHO (released December 2011) are intended to take account of social and ethnic group differentials in CHD prevalence, and are also standardised for age. The full model is based on age, sex, ethnicity, rurality, smoking status and deprivation score. The resulting prevalence estimates still show Havering and Bromley with high CHD prevalence, despite their relative socioeconomic affluence, and ranked 3rd and 4th among London PCTs (Table 3 and Figure 3). However, the ERPHO estimates show a considerable narrowing between London and England prevalence as compared to the QOF data, and also show Barking & Dagenham with the highest CHD prevalence among London PCTs, namely 6.5% of adults aged over 16, as compared to 5.8% in England as a whole.
- 2.5 Table 4 and Figure 4 compare recorded QOF prevalence for CHD in Barking & Dagenham practices with modelled prevalence. On average just over half of expected CHD cases (61%) are actually registered with Barking & Dagenham practices, though three practices (F82676, F82660, F82612) have recorded prevalence relatively close to the modelled level, namely 80% or more of expected cases (Table 4, column 6). Recorded prevalence rates according to the QOF range widely: from 0.4% to 3.7% (percent of total population), as compared to a PCT wide rate of 2.3%. Modelled prevalence rates for GP practices range from 1.0 % to 6.7% (% of total population), with a PCT wide rate of 3.7%.
- 2.6 Similarly Table 5 and Figure 5 compare recorded and expected CHD prevalence in Havering practices. Around 72% of expected cases are actually registered with practices; though two practices (F82006 and F82002) have recorded prevalence approaching 90% of the modelled level. Recorded prevalence rates according to the QOF range widely: from 1.5% to 4.5% (percent of total population), as compared to a PCT wide rate of 3.2%. Modelled CHD prevalence rates for GP practices in Havering range from 2.5% to 6.0% (percentage of total population), with a PCT wide rate of 4.4%.

3 Quality of Care

- 3.1 In the 2010/11 Quality Outcomes Framework, there are nine indicators (CHD02, CHD05, CHD06, CHD07, CHD08, CHD09, CHD10, CHD11, CHD12) relating to secondary prevention of CHD and these are sometimes used to indicate quality of care⁹.

- 3.2 An overall index (principal component score) was obtained from these nine indices for each of the 93 practices in Barking & Dagenham and Havering. The practices are then ranked (from 1 to 93), with lowest ranks denoting the best overall performance (Table 6). There is a weak positive correlation between better performance and higher levels of recorded prevalence in relation to expected.
- 3.3 There is a stronger positive correlation between completeness of prevalence recording and the average of two specific indicators of CHD care, namely CHD6 (percentage of CHD patients whose last blood pressure reading was 150/90 or less) and CHD8 (percentage of CHD patients whose last cholesterol level was 5 mmol/l or less).

4 CHD Hospital Admissions

- 4.1 The effectiveness of chronic conditions management can be assessed by comparing CHD hospital admission levels, especially unplanned emergency admissions, against London and England wide admission rates. Another relevant comparison is of hospital admissions against CHD prevalence in the community. For example, if a GP practice has a relatively low recorded prevalence but high admissions, this could indicate both under-diagnosis of CHD cases, and relatively high avoidable hospitalisations.
- 4.2 Comparative hospitalisation data at a relatively low geographic scale (for Middle Level Super Output Areas or MSOAs) are available for the period 2006/07 to 2010/11 throughout England. Table 7 shows a relatively high CHD emergency admission rate in North East London as compared to the rest of London, with Newham, Tower Hamlets, and Barking and Dagenham having the highest rates within the sector, respectively 48%, 32% and 22% above the England wide average level.
- 4.3 Table 7 also shows ratios of emergency admissions (over 2006/07 to 2010/11) to CHD patients in the community. Whereas the ratio to QOF-registered patients shows Barking & Dagenham to have a high admission to patient ratio, if modelled patients are used, Havering has a high emergency admission to patient ratio (see Figure 6).
- 4.4 Within Outer NE London specifically, the concentrations of highest CHD emergency admission rates show some correspondence with area deprivation (see Figure 7), with high levels occurring in relatively deprived areas of Havering as well as Barking and Dagenham, and Waltham Forest. 21 of the 22 MSOAs in Barking and Dagenham, and 12 of the 30 MSOAs in Havering, have CHD emergency admission rates above the England average.
- 4.5 Table 8 shows total and emergency CHD hospital episodes by electoral ward in 2010-11 (episodes with CHD as the principal diagnosis); see Figures 8 and 9 for ward plots within each PCT. Around 60% of episodes are emergencies across the two PCTs. Variation in emergency hospital episode rates between wards is considerable: from 2.1 to 6.1 per 1000 population (age standardised) in Barking and Dagenham (respectively Village and Abbey wards), and from 1.7 to 4.3 per 1000 in Havering (respectively Cranham and Havering Park wards).
- 4.6 Table 9 compares emergency CHD episodes and admissions in 2010-11 with recorded and expected CHD prevalence totals, in Barking & Dagenham and Havering practices (see also Figures 10 and 11). The emergency CHD admissions are taken from the NHS Comparators. Both PCTs have average admission to patient ratios in 2010-11 exceeding the England level of 55 per 1000 (the figures are 66 per 1000 in Barking & Dagenham, and 62 per 1000 for Havering).

4.7 Figure 10 shows two Barking and Dagenham practices with over twice the PCT-wide average ratio of CHD hospital admissions to modelled prevalence, namely F82665 and F82003. Similarly, Figure 11 shows three Havering practices more than 50% above twice the PCT-wide ratio of CHD admissions to modelled prevalence, namely F82016 and F82627.

5 CHD Mortality

5.1 Mortality data for 2008-10 (Table 10 and Figure 12) show Barking and Dagenham to have elevated CHD mortality, both at ages under 75 (35% above England average levels) and for all ages. CHD male mortality in Havering is also above England and London levels.

5.2 Table 11, and Figures 13 and 14, show CHD ward mortality differentials in 2008-10 (for all persons). Mortality can be seen to be more than 50% above the national average in Heath, Parsloes, and Valence wards in Barking & Dagenham. In Havering the highest mortality rates are in Gooshays (44% above England levels) and Romford Town.

6 Summary

6.1 Recorded prevalence of CHD has been declining slightly both in North East London and England. However, there are deficiencies in CHD case-finding in the community, with 61% of expected cases actually registered under the Quality Outcomes Framework in Barking and Dagenham as against 72% in Havering. Modelled estimates of CHD prevalence show Barking & Dagenham with the highest CHD prevalence among London boroughs, and Havering ranked third.

6.2 Even if prevalence is not increasing, emergency CHD admissions remain high and contribute to avoidable admissions sometimes classed as ambulatory sensitive. Emergency CHD admissions exceed the national level in Barking & Dagenham by around 20%. Additionally, excess CHD mortality is apparent, especially in Barking & Dagenham, though male CHD mortality in Havering is also above average.

6.3 There is considerable variation between sub-areas (whether MSOAs or wards) in emergency admissions and mortality. GP Practices within both Barking & Dagenham and Havering PCTs also vary considerably in terms of hospitalisation rates among CHD cases. Overall PCT-wide ratios of CHD emergency admissions to expected (modelled) prevalence exceed the national average in both PCTs. By contrast, according to the PCT Spend and Outcome Factsheets and Tool¹⁰, spending on circulatory diseases in 2010/11 was below the England average in Barking and Dagenham (£126 per head, compared to a £133 England figure), but above average in Havering (£147 per head).

6. References

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- 8 CHD Prevalence Modelling, Briefing Document. Walford H, Ramsay L, ERPHO, Dec 2011
<http://www.apho.org.uk/resource/item.aspx?RID=54653>
- 9 Association between quality of primary care and hospitalization for coronary heart disease in England: national cross-sectional study. Bottle A et al. J Gen Intern Med. 2008 Feb;23(2):135-41
- 10 PCT Spend and Outcome Factsheets and Tool (SPOT). Yorkshire and Humber Public Health Observatory. <http://www.yhpho.org.uk/resource/view.aspx?RID=49488>

Table 1 Trends in Registered CHD Prevalence

	Total Registered CHD Cases			
	2007/08	2008/09	2009/10	2010/11
Barking & Dagenham	4547	4523	4447	4427
Havering	8183	7989	8082	8090
Redbridge	7489	7286	7638	7697
Waltham Forest	5908	5870	5885	6074
ONEL	26127	25668	26052	26288
London	191420	189988	192226	192142
England	1892432	1886406	1885089	1877518
	Prevalence Rate (All adults)			
	2007/08	2008/09	2009/10	2010/11
Barking & Dagenham	2.51	2.53	2.38	2.28
Havering	3.26	3.24	3.18	3.16
Redbridge	2.85	2.76	2.82	2.76
Waltham Forest	2.22	2.21	2.15	2.11
ONEL	2.72	2.69	2.65	2.59
London	1.93	1.92	1.90	1.89
England	3.50	3.47	3.44	3.40

Table 2 Recorded CHD Prevalence Levels in London, 2010-11

PCT Name	CHD Register Total	CHD Prevalence %	Rank within London (1 for highest)
BARKING & DAGENHAM PCT	4,427	2.3%	13
BARNET PCT	10,349	2.8%	5
BRENT PCT	7,515	2.1%	17
BROMLEY PCT	9,931	3.1%	2
CAMDEN PCT	4,210	1.7%	26
CITY & HACKNEY PCT	4,586	1.6%	27
CROYDON PCT	8,662	2.3%	14
EALING PCT	9,911	2.6%	7
ENFIELD PCT	7,486	2.5%	9
HAMMERSMITH & FULHAM PCT	3,428	1.8%	23
HARINGEY PCT	4,630	1.6%	28
HARROW PCT	6,870	2.9%	4
HAVERING PCT	8,090	3.2%	1
HILLINGDON PCT	6,983	2.5%	8
HOUNSLOW PCT	6,245	2.4%	11
ISLINGTON PCT	3,985	1.9%	21
KENSINGTON AND CHELSEA PCT	3,564	1.9%	19
KINGSTON	4,427	2.3%	12
LAMBETH PCT	5,142	1.4%	31
LEWISHAM PCT	5,581	1.8%	22
NEWHAM PCT	6,367	1.8%	24
NHS BEXLEY	6,774	3.0%	3
NHS GREENWICH	6,051	2.2%	15
REDBRIDGE PCT	7,697	2.8%	6
RICHMOND & TWICKENHAM	3,922	2.0%	18
SOUTHWARK PCT	4,749	1.5%	30
SUTTON & MERTON PCT	9,547	2.4%	10
TOWER HAMLETS PCT	4,756	1.8%	25
WALTHAM FOREST PCT	6,074	2.1%	16
WANDSWORTH PCT	5,506	1.5%	29
WESTMINSTER PCT	4,677	1.9%	20
LONDON	192,142	2.2%	
ONEL	26,288	2.6%	

Table 3 Modelled CHD Prevalence 2011 (ERPHO)

AREA NAME	Males		Females		Persons		Prevalence Rank (London PCTs)
	Number with CHD	Prevalence (ages 16+)	Number with CHD	Prevalence (ages 16+)	Number with CHD	Prevalence (ages 16+)	
BARKING-DG'M	4829	7.7	3794	5.5	8623	6.5	1
BARNET	7305	5.5	5357	3.8	12663	4.6	14
BEXLEY	5528	6.4	3993	4.2	9520	5.3	7
BRENT	5925	5.8	4049	4.0	9974	4.9	12
BROMLEY	7964	6.7	5866	4.5	13830	5.5	4
CAMDEN	4217	4.3	2932	3.0	7149	3.7	28
CITY-HACKNEY	5270	6.0	3556	3.9	8826	4.9	11
CROYDON	8440	6.4	5860	4.2	14300	5.3	8
EALING	7066	5.4	4777	3.8	11843	4.6	15
ENFIELD	6897	6.2	4886	4.2	11783	5.2	9
GREENWICH	4629	5.4	3510	3.8	8139	4.6	17
HAMMERSMITH-F'M	3338	4.7	2366	3.4	5704	4.0	24
HARINGEY	5556	6.1	4014	4.5	9570	5.3	6
HARROW	4945	5.5	3546	3.8	8492	4.6	16
HAVERING	6025	6.7	4510	4.5	10535	5.6	3
HILLINGDON	5354	5.3	3806	3.5	9160	4.4	19
HOUNSLOW	5086	5.3	3426	3.7	8511	4.5	18
ISLINGTON	4557	5.7	3225	4.0	7782	4.8	13
KENSINGTON-CH	4384	6.3	3156	4.3	7540	5.3	5
KINGSTON	3064	4.5	2129	3.1	5193	3.8	27
LAMBETH	4674	3.9	3047	2.7	7721	3.3	31
LEWISHAM	4769	4.6	3392	3.2	8161	3.9	26
NEWHAM	5526	6.0	3748	4.2	9273	5.1	10
REDBRIDGE	5346	5.2	3718	3.5	9064	4.3	21
RICHMOND-TW'M	3895	5.3	2733	3.5	6628	4.4	20
SOUTHWARK	4914	4.1	3335	2.9	8249	3.5	30
SUTTON-MERTON	8049	5.1	5761	3.5	13811	4.3	22
TOWER HAMLETS	4832	5.0	3086	3.4	7919	4.2	23
WALTHAM FOREST	6103	7.0	4479	5.1	10582	6.0	2
WANDSWORTH	4933	4.3	3674	2.9	8607	3.6	29
WESTMINSTER	5254	4.8	3464	3.2	8717	4.0	25
London SHA	168673	5.5	119194	3.8	287868	4.6	
ENGLAND	1434118	7.0	1006198	4.7	2440316	5.8	

Table 4 CHD Prevalence, QOF Registered and ERPHO Modelled Cases Compared, Barking & Dagenham Practices

Practice Code	Practice Name	QOF Coronary Heart Disease Register 2010-11	Coronary Heart Disease Prevalence (QOF)	ERPHO Modelled CHD Caases 2011	Percent of Expected Prevalence registered under QOF	% Modelled Prevalence (All ages)	% Modelled Prevalence (ages over 16)
Y01719	BROAD STREET MEDICAL CTR	77	2.21	122	63	3.2	4.5
Y02583	CHILD & FAMILY HEALTH CTR	17	0.39	47	36	1.0	1.3
F82677	DR A MOGHAL'S PRACTICE	87	1.69	150	58	2.9	3.9
F82650	DR AA ANSARI'S PRACTICE	102	2.02	142	72	2.8	3.6
F82668	DR AK MITTAL'S PRACTICE	83	2.95	139	60	4.9	6.6
F82018	DR AS CHOPRA'S PRACTICE	312	2.86	399	78	3.7	4.9
F82001	DR BB QUANSAH'S PRACTICE	95	1.55	248	38	4.0	5.5
F82025	DR BK JAISWAL'S PRACTICE	134	2.95	207	65	4.6	6.2
F82621	DR C OLA'S PRACTICE	50	1.69	101	50	3.5	4.4
F82679	DR DP SHAH'S PRACTICE	92	1.98	139	66	3.0	4.0
F82645	DR F. ISLAM	69	3.09	106	65	4.9	6.3
F82676	DR GS KALKAT'S PRACTICE	117	2.14	138	85	2.5	3.6
F82004	DR IA MOGHAL & ASSOCIATES	232	1.98	362	64	3.1	4.3
F82680	DR JP LAWRENCE'S PRACTICE	89	1.93	169	53	3.6	4.6
F82042	DR K JOHN'S PRACTICE	115	1.78	222	52	3.4	4.5
F82678	DR KM ALKAISY PRACTICE	78	3.11	101	77	4.0	5.4
F82604	DR KP KASHYAP'S PRACTICE	112	3.09	179	63	5.0	6.6
Y01795	DR M EHSAN	45	2.24	81	56	4.0	5.0
F82003	DR M FATEH'S PRACTICE	73	2.05	129	57	3.6	4.8
F82005	DR M GOYAL'S PRACTICE	108	2.10	248	44	4.7	6.4
F82625	DR MF HAQ'S PRACTICE	122	1.71	164	74	2.3	3.1
F82017	DR MOHAN & ASSOCIATES	221	2.57	402	55	4.7	6.2
F82034	DR N NIRANJAN'S PRACTICE	66	1.49	123	54	2.8	3.8
F82661	DR NPS TEOTIA'S PRACTICE	60	1.66	105	57	2.9	3.6
F82027	DR P PRASAD'S PRACTICE	86	2.78	144	60	4.7	5.7
F82012	DR PA HEININK'S PRACTICE	249	3.71	448	56	6.7	8.4
F82647	DR R CHIBBER'S PRACTICE	87	1.81	138	63	2.8	3.4
F82015	DR SN AHMAD'S PRACTICE	90	1.75	230	39	4.4	5.8
F82038	DR SZ HAIDER'S PRACTICE	122	2.38	198	62	3.8	4.9
F86040	DR UA AFSER'S PRACTICE	71	2.19	117	61	3.5	4.5
F82660	DR V GORIPARTHI'S PRACTICE	197	2.68	246	80	3.3	4.4
F82665	DR VK CHAWLA'S PRACTICE	57	1.85	83	69	2.7	3.6
F82642	GABLES SURGERY	101	2.80	144	70	4.0	5.1
F82634	HEATHWAY MEDICAL CTR	66	1.97	104	63	3.2	4.2
F82040	JOHN SMITH MEDICAL CTR	82	2.93	104	79	3.8	5.2
F82051	LABURNUM HEALTH CTR	233	2.77	440	53	5.3	6.8
Y02575	PORTERS AVENUE HEALTH CTR	40	1.22	92	43	2.5	3.4
Y01280	SHIFA MEDICAL PRACTICE	29	1.12	60	48	2.3	3.4
F82629	THE LAWNS MEDICAL CARE	53	2.95	87	61	4.9	6.7
F82612	THE WHITE HOUSE SURGERY	161	3.62	199	81	4.5	5.6
F82023	THIRD AVENUE SURGERY	147	3.35	221	67	5.0	6.1
	PCT	4427	2.26	7278	61	3.7	4.9

Table 5 CHD Prevalence, QOF Registered and ERPHO Modelled Cases Compared, Havering Practices

Practice Code	Practice Name	QOF Coronary Heart Disease Register 2010-11	Coronary Heart Disease Prevalence (QOF)	ERPHO Modelled CHD Caases 2011	Percent of Expected Prevalence registered under QOF	% Modelled Prevalence (All ages)	% Modelled Prevalence (ages over 16)
F82053	BAIG	62	2.0	93	67	3.0	3.7
F82649	BERWICK SURGERY	122	2.5	217	56	4.5	5.3
F82653	CECIL AVENUE SURGERY	57	1.8	97	59	3.1	3.9
F82657	CHAKARAVARTY	58	2.9	103	56	5.3	6.3
F82630	CHASE CROSS MEDICAL CTR	126	2.7	168	75	3.6	4.6
F82643	CHOPRA	49	2.8	71	69	4.1	4.8
F82045	CHOWDHURY	114	3.6	175	65	5.5	6.5
F82674	CRANHAM HEALTH CTR	107	2.7	143	75	3.5	4.5
F82686	DR A PATEL	53	1.5	91	58	2.5	3.3
F82627	DR ABDULLAH	97	2.2	160	61	3.6	4.6
F82031	DR BEHESHTI	148	3.1	220	67	4.6	5.7
F82675	DR BLAND	127	2.9	192	66	4.4	5.3
F82006	DRS C DAHS & HUMBERSTONE	391	4.1	438	89	4.5	5.4
F82641	DR GILLET-WALLER	59	3.4	83	71	4.7	5.5
F82610	DR GUPTA	86	3.0	124	69	4.2	5.3
F82019	DR HAMILTON-SMITH	232	3.8	317	73	5.1	6.3
Y00183	DR HUSSAIN	40	1.7	71	56	3.1	4.3
F82618	DR JAISWAL	68	3.5	96	71	5.0	5.9
F82607	DR JAWAD	73	3.2	124	59	5.5	6.4
F82639	DR JOSEPH	56	2.0	90	62	3.2	4.1
F82619	DR K SUBRAMANIAN	76	4.1	101	75	5.4	6.4
F82020	DR MAHMOOD	136	4.5	179	76	6.0	7.1
F82663	DR MARKS PRACTICE	85	3.0	118	72	4.2	5.0
F82039	DR P & S POOLOGANATHAN	94	2.7	144	65	4.2	5.2
F82609	DR PM PATEL	164	4.2	202	81	5.2	6.2
F82666	DR RAHMAN	84	3.1	112	75	4.2	5.0
F82614	DR S SUBRAMANIAM	64	3.0	117	55	5.5	6.5
F82052	DR SJ HASKELL	73	2.5	137	53	4.9	6.0
F82646	DR UBEROY	167	3.0	225	74	4.1	5.1
F82033	DR VM PATEL	115	3.9	146	79	4.9	5.8
F82744	DR WANI	73	3.0	106	69	4.3	5.3
F82007	GUBBINS LN/ARDLEIGH GRN SGY	427	3.5	633	67	5.2	6.1
F82002	HAIDERIAN MEDICAL CTR	163	3.8	186	88	4.3	5.1
F82055	HORNCHURCH HEALTHCARE	101	2.9	153	66	4.3	5.1
F82648	INGREBOURNE MEDICAL CTR	66	2.6	123	54	4.8	5.8
F82670	JABBAR	38	1.8	63	60	2.9	3.9
F82016	KAKAD	209	2.9	283	74	3.9	5.1
F82014	KUCCHAI	241	3.4	334	72	4.8	6.0
F82608	KWAN	42	2.4	76	55	4.4	5.1
F82030	LYNWOOD MEDICAL CTR	368	3.4	477	77	4.5	5.6
F82011	MAWNEY MEDICAL CTR	343	3.5	427	80	4.3	5.3
F82008	MAYLANDS HEALTH CARE	496	3.4	613	81	4.2	5.0
F82638	MODERN MEDICAL CTR	87	2.1	154	56	3.6	4.5
F82009	NORTH STREET MEDICAL CARE	523	4.2	602	87	4.8	5.8
F82010	PETERSFIELD SURGERY	214	3.6	281	76	4.7	5.8
F82671	PRASAD	67	2.7	118	57	4.7	5.9
F82021	THE NEW MEDICAL CTR	308	3.0	406	76	4.0	4.9
Y00312	ROBINS SGY, HAROLD HILL	96	2.2	137	70	3.1	4.3
F82022	THE ROSEWOOD MEDICAL CTR	375	3.8	464	81	4.7	5.6
F82624	UPMINSTER BRIDGE SURGERY	90	3.0	154	58	5.1	6.0
F82013	WESTERN ROAD MEDICAL CTR	397	2.6	685	58	4.5	5.5
F82028	WOOD LANE SURGERY	179	3.7	222	81	4.5	5.6
	PCT	8086	3.2	11251	72	4.4	5.4

Table 6.1 CHD Secondary Care, Performance Scores, Barking & Dagenham

Practice Code	CHD02	CHD05	CHD06	CHD07	CHD08	CHD09	CHD10	CHD11	CHD12	Performance Rank
	Angina specialist assessment	Blood pressure record	Blood pressure 150/90 or less	Cholesterol record	Cholesterol 5 mmol/l or less	Anti-platelet or anti-coagulant	Beta blocker treatment	MI patients treated ACE inhibitor etc	Influenza immunisation	
Y01719	1.	1.	0.95	0.95	0.81	0.99	0.61	0.88	0.94	44
Y02583	1.	1.	1.	0.94	1.	1.	1.	1.	1.	3
F82677	1.	0.99	0.96	0.95	0.91	0.96	0.98	1.	0.96	19
F82650	1.	0.97	0.89	0.91	0.82	0.92	0.74	1.	0.93	64
F82668	1.	0.99	0.98	0.89	0.85	0.95	0.82	0.88	0.96	42
F82018	0.98	0.98	0.91	0.95	0.85	0.92	0.76	0.86	0.85	66
F82001	0.93	0.93	0.82	0.93	0.78	0.91	0.66	0.89	0.78	91
F82025	1.	0.96	0.89	0.93	0.78	0.93	0.86	0.95	0.91	65
F82621	1.	0.98	0.86	0.92	0.8	0.87	0.74	1.	0.96	75
F82679	0.9	0.99	0.97	0.92	0.88	0.93	0.87	0.94	0.99	39
F82645	0.93	0.99	0.93	0.94	0.75	0.95	0.95	0.88	0.95	48
F82676	0.91	1.	0.94	0.95	0.83	0.98	0.93	0.92	0.94	31
F82004	0.94	0.93	0.83	0.86	0.74	0.93	0.75	0.84	0.89	89
F82680	1.	0.97	0.87	0.9	0.78	0.99	0.82	1.	0.91	58
F82042	1.	1.	0.96	0.93	0.83	0.97	0.74	0.88	0.94	40
F82678	1.	1.	0.96	0.99	0.82	0.96	0.86	0.9	0.97	27
F82604	1.	0.96	0.89	0.9	0.75	0.96	0.7	1.	0.93	69
Y01795	1.	1.	0.91	0.89	0.79	0.91	1.	0.9	0.69	70
F82003	1.	0.99	0.9	0.96	0.66	0.96	0.71	0.94	0.96	62
F82005	0.9	0.99	0.94	0.93	0.82	0.93	0.72	1.	0.97	50
F82625	0.93	1.	0.93	0.94	0.87	0.96	0.79	1.	0.98	35
F82017	1.	0.95	0.8	0.94	0.83	0.91	0.67	0.92	0.73	86
F82034	1.	1.	0.93	0.92	0.79	0.95	0.74	0.85	0.94	56
F82661	1.	1.	0.93	0.97	0.89	0.95	0.69	1.	0.96	33
F82027	0.95	0.97	0.9	0.92	0.8	0.96	0.7	0.89	0.97	68
F82012	0.94	0.99	0.96	0.96	0.84	0.93	0.69	0.94	0.95	49
F82647	1.	0.98	0.96	0.94	0.8	0.96	0.64	0.95	0.93	51
F82015	1.	0.94	0.84	0.92	0.8	0.94	0.82	0.94	0.97	72
F82038	1.	1.	0.87	0.93	0.83	0.95	0.68	0.89	0.95	57
F86040	1.	0.96	0.94	0.97	0.83	0.96	0.89	1.	0.92	38
F82660	0.9	0.96	0.89	0.97	0.79	0.94	0.72	0.86	0.93	76
F82665	0.83	0.98	0.83	0.93	0.87	0.93	0.75	0.92	0.88	77
F82642	1.	1.	0.98	0.96	0.88	0.97	0.85	0.96	0.95	24
F82634	0.7	0.98	0.87	0.84	0.87	0.92	0.71	1.	0.71	87
F82040	0.91	0.98	0.84	0.93	0.79	0.96	0.66	0.85	1.	78
F82051	1.	0.97	0.86	0.91	0.83	0.92	0.7	0.83	0.94	81
Y02575	1.	0.98	0.94	0.94	0.84	0.94	0.67	0.86	0.93	60
Y01280	1.	0.97	0.97	0.9	0.69	0.93	0.69	1.	0.93	73
F82629	1.	1.	0.96	0.9	0.78	0.92	0.77	0.89	0.98	55
F82612	0.91	0.97	0.96	0.92	0.82	0.91	0.68	0.85	0.99	71
F82023	1.	1.	0.95	0.97	0.82	0.97	0.89	0.96	0.9	28

Table 6.2 CHD Secondary Care, Performance Scores, Havering

Practice Code	CHD02	CHD05	CHD06	CHD07	CHD08	CHD09	CHD10	CHD11	CHD12	Performance Rank
	Angina specialist assessment	Blood pressure record	Blood pressure 150/90 or less	Cholesterol record	Cholesterol 5 mmol/l or less	Anti-platelet or anti-coagulant	Beta blocker treatment	MI patients treated with ACE inhibitor etc	Influenza immunisation	
F82053	1.	0.94	0.8	0.92	0.76	0.97	0.96	0.83	0.94	80
F82649	1.	0.98	0.86	0.93	0.89	0.93	0.85	0.89	1.	46
F82653	1.	1.	1.	0.96	0.98	1.	1.	1.	0.98	2
F82657	1.	0.98	0.98	0.91	0.83	0.95	0.81	1.	1.	37
F82630	0.91	1.	0.98	0.95	0.86	0.93	0.95	0.89	0.95	34
F82643	0.63	0.96	0.84	0.89	0.9	0.98	0.81	1.	0.82	83
F82045	1.	0.96	0.95	0.81	0.68	0.89	0.62	0.83	0.77	92
F82674	1.	1.	0.96	1.	0.97	0.97	0.93	1.	1.	9
F82686	1.	1.	1.	0.96	0.96	1.	1.	1.	1.	6
F82627	1.	1.	0.88	1.	0.84	0.98	0.88	1.	1.	23
F82031	1.	0.95	0.93	0.92	0.86	0.93	0.78	1.	0.94	59
F82675	0.94	1.	0.98	0.98	0.85	0.93	0.82	0.94	1.	30
F82006	0.98	1.	0.99	0.99	0.96	0.98	0.91	0.92	0.96	14
F82641	1.	1.	0.98	0.95	0.81	1.	1.	1.	0.95	17
F82610	1.	0.99	0.98	0.94	0.78	0.93	0.68	0.92	0.93	54
F82019	0.89	0.94	0.83	0.86	0.74	0.9	0.72	0.97	0.94	88
Y00183	1.	1.	0.98	1.	0.92	1.	1.	1.	1.	7
F82618	1.	1.	0.93	0.93	0.74	0.91	0.53	0.71	0.92	84
F82607	1.	0.99	0.99	0.97	0.87	0.95	1.	1.	0.98	20
F82639	0.94	0.96	0.96	0.93	0.8	1.	1.	1.	0.9	36
F82619	1.	0.99	0.82	0.93	0.84	0.96	0.9	0.9	0.93	52
F82020	0.86	0.95	0.88	0.8	0.76	0.94	0.66	0.86	0.96	90
F82663	1.	1.	1.	1.	0.94	0.91	0.74	0.87	0.93	29
F82039	1.	0.99	0.98	0.88	0.77	0.9	0.63	0.82	0.92	82
F82609	1.	1.	0.98	1.	0.95	1.	0.91	0.86	0.99	11
F82666	1.	0.99	0.98	0.95	0.82	0.94	0.74	0.9	0.97	41
F82614	1.	0.95	0.91	0.92	0.79	0.92	0.75	1.	0.86	74
F82052	1.	0.97	0.93	0.86	0.81	0.99	0.65	0.89	1.	63
F82646	0.94	0.99	0.97	0.96	0.8	0.94	0.7	0.85	0.98	47
F82033	1.	1.	0.98	1.	0.99	1.	0.94	1.	0.94	4
F82744	1.	1.	0.99	0.99	0.94	0.99	0.86	1.	0.83	15
F82007	1.	0.97	0.93	0.95	0.89	0.95	0.79	0.88	0.93	45
F82002	1.	0.99	0.99	0.99	0.97	0.96	0.93	0.92	0.98	13
F82055	1.	1.	0.99	0.99	0.99	0.98	0.97	1.	0.99	5
F82648	1.	1.	1.	1.	0.94	1.	1.	1.	0.97	1
F82670	1.	1.	0.95	1.	1.	0.97	1.	1.	1.	8
F82016	1.	1.	0.98	0.95	0.95	0.97	0.99	1.	0.98	12
F82014	1.	1.	1.	0.97	0.96	0.92	1.	1.	0.92	16
F82608	1.	1.	1.	0.98	0.85	0.93	0.93	1.	0.98	21
F82030	0.97	0.91	0.88	0.7	0.66	0.83	0.59	0.88	1.	93
F82011	0.98	0.98	0.94	0.93	0.86	0.95	0.91	0.93	0.85	43
F82008	1.	0.99	0.95	0.98	0.93	0.94	0.84	0.91	0.99	26
F82638	1.	1.	1.	0.99	0.88	0.92	0.75	1.	0.95	25
F82009	0.96	0.98	0.93	0.92	0.82	0.94	0.66	0.89	0.94	67
F82010	1.	1.	0.99	0.99	0.96	0.95	0.97	0.86	0.96	18
F82671	1.	1.	1.	0.97	0.85	0.97	0.92	0.86	0.98	22
F82021	0.92	0.97	0.9	0.95	0.84	0.9	0.65	0.84	0.75	85
Y00312	1.	0.98	0.93	0.97	0.88	0.96	0.91	0.93	0.95	32
F82022	1.	0.99	0.89	0.93	0.82	0.94	0.8	0.94	0.9	53
F82624	1.	0.92	0.79	0.96	0.76	1.	0.92	1.	1.	61
F82013	0.92	0.97	0.86	0.92	0.83	0.95	0.77	0.88	0.81	79
F82028	1.	1.	0.98	0.98	0.96	0.97	0.96	0.97	0.96	10

Table 7 Emergency CHD Admissions, 2006-07 to 2010-11

Area	Emergency CHD Admissions	Standard Emergency Admission Ratio	Average CHD patients on QOF register	Expected CHD Patients (ERPHO, 2011)	Annual Admissions per 1000 registered patients	Annual Admissions per 1000 Modelled Patients
Barking & Dagenham	2333	122	4486	8623	104	54
Havering	3472	98	8086	10535	86	66
Redbridge	3420	111	7528	9064	91	75
Waltham Forest	2656	117	5934	10582	90	50
ONEL	11881	110	26034	38804	91	61
City & Hackney	2085	107	4526	8826	92	47
Newham	2982	148	6299	9273	95	64
Tower Hamlets	2145	132	4693	7919	91	54
North East London	19093	116	41552	64822	92	59
London	87445	104	191444	287868	91	61
England	733521	100	1885361	2440316	78	60

Table 8 CHD Hospital Episodes by Electoral Ward, 2010-11

Area	All Admissions		Emergencies		% Emergencies
	Episodes	Rate per 1000 population	Episodes	Rate per 1000 population	
Barking & Dagenham	1206	7.1	697	3.9	58
Abbey	84	11.4	47	6.1	56
Alibon	70	7.4	42	4.2	60
Becontree	95	9.2	57	5.2	60
Chadwell Heath	65	5.3	37	2.8	57
Eastbrook	65	5.2	36	2.7	55
Eastbury	49	4.7	25	2.3	51
Gascoigne	68	8.7	41	5.0	60
Goresbrook	86	8.4	50	4.6	58
Heath	73	6.7	50	4.3	68
Longbridge	86	7.9	36	3.2	42
Mayesbrook	87	9.1	60	6.0	69
Parsloes	83	8.8	53	5.4	64
River	65	6.7	39	3.9	60
Thames	52	6.9	25	3.2	48
Valence	65	6.8	38	3.8	58
Village	47	4.5	23	2.1	49
Whalebone	66	6.2	38	3.4	58
Havering	1714	5.3	1036	3.1	60
Brooklands	90	5.6	54	3.2	60
Cranham	64	3.0	37	1.7	58
Elm Park	80	4.3	49	2.5	61
Emerson Park	112	6.1	61	3.2	54
Gooshays	109	6.8	71	4.2	65
Hacton	93	4.9	59	2.9	63
Harold Wood	82	4.8	51	2.9	62
Havering Park	119	7.3	74	4.3	62
Heaton	90	5.5	55	3.2	61
Hylands	76	4.5	42	2.4	55
Mawneys	90	5.1	56	3.0	62
Pettits	99	5.1	56	2.7	57
Rainham and Wennington	72	4.3	41	2.3	57
Romford Town	85	5.1	41	2.3	48
South Hornchurch	115	6.8	77	4.3	67
Squirrel's Heath	99	5.9	63	3.6	64
St Andrew's	124	6.2	77	3.6	62
Upminster	115	5.5	72	3.2	63

Table 9.1 Emergency CHD Episodes and CHD Patients in the Community, Barking & Dagenham

Practice Code	Name	Emergency CHD Episodes 2010-11	Emergency CHD Admissions 2010-11	QOF Coronary Heart Disease Register 2010-11	Expected CHD Cases 2011 (ERPHO)	Emergency Episodes per 1000 Expected Patients	Emergency Admissions per 1000 Expected Patients
Y01719	BROAD STREET MED CTR	6	6	77	122	49	49
Y02583	CHILD & FAMILY HLTH CTR	8	3	17	47	170	64
F82677	DR A MOGHAL	15	12	87	150	100	80
F82650	DR AA ANSARI	8	7	102	142	56	49
F82668	DR AK MITTAL	23	18	83	139	165	129
F82018	DR AS CHOPRA	50	31	312	399	125	78
F82001	DR BB QUANSAH	19	15	95	248	77	60
F82025	DR BK JAISWAL	20	10	134	207	97	48
F82621	DR C OLA	5	2	50	101	50	20
F82679	DR DP SHAH	16	10	92	139	115	72
F82645	DR F. ISLAM	7	6	69	106	66	57
F82676	DR GS KALKAT	18	14	117	138	130	101
F82004	DR IA MOGHAL ASSOCS	40	31	232	362	110	86
F82680	DR JP LAWRENCE	17	9	89	169	101	53
F82042	DR K JOHN	24	15	115	222	108	68
F82678	DR KM ALKAISY	11	5	78	101	109	50
F82604	DR KP KASHYAP	14	11	112	179	78	61
Y01795	DR M EHSAN	12	8	45	81	148	99
F82003	DR M FATEH	35	24	73	129	271	186
F82005	DR M GOYAL	2	5	108	248	8	20
F82625	DR MF HAQ	24	20	122	164	146	122
F82017	DR MOHAN ASSOCS	20	18	221	402	50	45
F82034	DR N NIRANJAN	1	4	66	123	8	33
F82661	DR NPS TEOTIA	14	8	60	105	133	76
F82027	DR P PRASAD	11	11	86	144	76	76
F82012	DR PA HEININK	45	26	249	448	100	58
F82647	DR R CHIBBER	18	12	87	138	130	87
F82015	DR SN AHMAD	13	9	90	230	57	39
F82038	DR SZ HAIDER	28	18	122	198	141	91
F86040	DR UA AFSER	13	9	71	117	111	77
F82660	DR V GORIPARTHI	17	18	197	246	69	73
F82665	DR VK CHAWLA	22	14	57	83	265	169
F82642	GABLES SGY	23	14	101	144	160	97
F82634	HEATHWAY MED CTR	5	6	66	104	48	58
F82040	JOHN SMITH MED CTR	8	9	82	104	77	87
F82051	LABURNUM HEALTH CTR	17	9	233	440	39	20
Y02575	PORTERS AVE HEALTH CTR	8	2	40	92	87	22
Y01280	SHIFA MED	2	2	29	60	33	33
F82629	THE LAWNS MED CARE	9	9	53	87	103	103
F82612	THE WHITE HOUSE SGY	13	11	161	199	65	55
F82023	THIRD AVENUE SGY	20	10	147	221	90	45
	Barking & Dagenham	681	481	4427	7278	94	66
	England		133140	1877518	2442901		55

Table 9.2 Emergency CHD Episodes and CHD Patients in the Community, Havering

Practice Code	Name	Emergency CHD Episodes 2010-11	Emergency CHD Admissions 2010-11	QOF		Emergency Episodes per 1000 Expected Patients	Emergency Admissions per 1000 Expected Patients
				Coronary Heart Disease Register 2010-11	Expected CHD Cases 2011 (ERPHO)		
F82053	BAIG	7	6	62	93	75	65
F82649	BERWICK SGY	13	5	122	217	60	23
F82653	CECIL AVENUE SGY	7	4	57	97	72	41
F82657	CHAKARAVARTY	11	6	58	103	107	58
F82630	CHASE CROSS MED CTR	26	14	126	168	155	83
F82643	CHOPRA	3	2	49	71	42	28
F82045	CHOWDHURY	13	9	114	175	74	51
F82674	CRANHAM HEALTH CTR	10	10	107	143	70	70
F82686	DR A PATEL	12	8	53	91	132	88
F82627	DR ABDULLAH	18	18	97	160	113	113
F82031	DR BEHESHTI	7	8	148	220	32	36
F82675	DR BLAND	18	8	127	192	94	42
F82006	DRS DAHS HUMBERSTONE	53	30	391	438	121	68
F82641	DR GILLET-WALLER	13	7	59	83	157	84
F82610	DR GUPTA	19	11	86	124	153	89
F82019	DR HAMILTON-SMITH	26	15	232	317	82	47
Y00183	DR HUSSAIN	3	4	40	71	42	56
F82618	DR JAISWAL	3	3	68	96	31	31
F82607	DR JAWAD	8	10	73	124	65	81
F82639	DR JOSEPH	4	5	56	90	44	56
F82619	DR K SUBRAMANIAN	8	5	76	101	79	50
F82020	DR MAHMOOD	14	6	136	179	78	34
F82663	DR MARKS	4	6	85	118	34	51
F82039	DR P & S POOLOGANATHAN	14	9	94	144	97	63
F82609	DR PM PATEL	18	10	164	202	89	50
F82666	DR RAHMAN	13	6	84	112	116	54
F82614	DR S SUBRAMANIAM	12	5	64	117	103	43
F82052	DR SJ HASKELL	12	7	73	137	88	51
F82646	DR UBEROY	18	8	167	225	80	36
F82033	DR VM PATEL	21	13	115	146	144	89
F82744	DR WANI	5	6	73	106	47	57
F82007	GUBBINS L/ARDLEIGH GR SGY	69	48	427	633	109	76
F82002	HAIDERIAN MED CTR	21	13	163	186	113	70
F82055	HORNCHURCH HEALTHCARE	22	8	101	153	144	52
F82648	INGREBOURNE MED CTR	14	6	66	123	114	49
F82670	JABBAR	6	3	38	63	95	48
F82016	KAKAD	47	28	209	283	166	99
F82014	KUCCHAI	31	30	241	334	93	90
F82608	KWAN	3	1	42	76	39	13
F82030	LYNWOOD MED CTR	52	33	368	477	109	69
F82011	MAWNEY MED CTR	34	23	343	427	80	54
F82008	MAYLANDS HEALTH CARE	57	44	496	613	93	72
F82638	MODERN MED CTR	11	9	87	154	71	58
F82009	NORTH STREET MED CARE	51	37	523	602	85	61
F82010	PETERSFIELD SGY	31	16	214	281	110	57
F82671	PRASAD	5	5	67	118	42	42
F82021	THE NEW MED CTR	44	27	308	406	108	67
Y00312	ROBINS SGY, HAROLD HILL HEALTH CTR	5	6	96	137	36	44
F82022	THE ROSEWOOD MED CTR	42	33	375	464	91	71
F82624	UPMINSTER BRIDGE SGY	11	7	90	154	71	45
F82013	WESTERN ROAD MED CTR	55	40	397	685	80	58
F82028	WOOD LANE SGY	20	12	179	222	90	54
	BOTH PCTs	2406	1174	1894458	18529	130	63
	Havering	1044	693	8086	11251	93	62
	England		133140	1877518	2442901		55

Table 10 CHD Mortality, 2008-10, Totals and Age-standardised Rates per 100,000

	Less than 75 years					
	MALES		FEMALES		PERSONS	
	Total	Rate	Total	Rate	Total	Rate
ENGLAND	47468	58	15737	17	63205	37
LONDON	5282	59	1843	18	7125	37
Barking and Dagenham LB	151	79	53	25	204	51
Havering LB	225	62	72	16	297	38
Redbridge LB	189	56	81	22	270	39
Waltham Forest LB	168	67	72	26	240	46
ONEL	733	65	278	22	1011	43
	All Ages					
	MALES		FEMALES		PERSONS	
	Total	Rate	Total	Rate	Total	Rate
ENGLAND	116720	113	87125	51	203845	79
LONDON	12239	108	8981	49	21220	76
Barking and Dagenham LB	347	139	274	62	621	96
Havering LB	571	117	423	49	994	79
Redbridge LB	488	115	370	56	858	82
Waltham Forest LB	371	128	308	66	679	93
ONEL	1777	123	1375	57	3152	86

Table 11 CHD Ward Mortality, Deaths and Rates per 100 thousand, 2008-10
All ages

	Deaths	SMR	Rate
Barking & Dag'm			
Abbey	13	66	52.2
Alibon	39	142	111.8
Becontree	40	134	105.6
Chadwell Heath	42	104	82.1
Eastbrook	41	106	83.6
Eastbury	22	72	56.8
Gascoigne	32	149	117.9
Goresbrook	41	137	108.2
Heath	62	181	142.6
Longbridge	29	88	69.7
Mayesbrook	39	138	108.7
Parsloes	44	155	122.7
River	41	147	116.2
Thames	25	119	93.8
Valence	45	153	121.2
Village	37	119	94.0
Whalebone	26	82	64.7
PCT	618	122	96.4
	Deaths	SMR	Rate
Havering			
Brooklands	51	105	82.8
Cranham	57	82	64.5
Elm Park	53	89	70.0
Emerson Park	58	99	78.3
Gooshays	69	144	114.1
Hacton	48	79	62.4
Harold Wood	59	112	88.2
Havering Park	55	109	86.3
Heaton	50	97	76.7
Hylands	40	78	61.8
Mawneys	49	87	68.6
Pettits	61	99	78.4
Rainham and			
Wennington	52	99	78.3
Romford Town	61	121	95.7
St Andrew's	55	85	67.1
South Hornchurch	56	106	83.4
Squirrel's Heath	55	105	82.7
Upminster	65	96	75.8
PCT	994	100	79.0
England	203845	100	79.0

Figure 1 Trends in Recorded CHD Prevalence from QOF (% Rate)

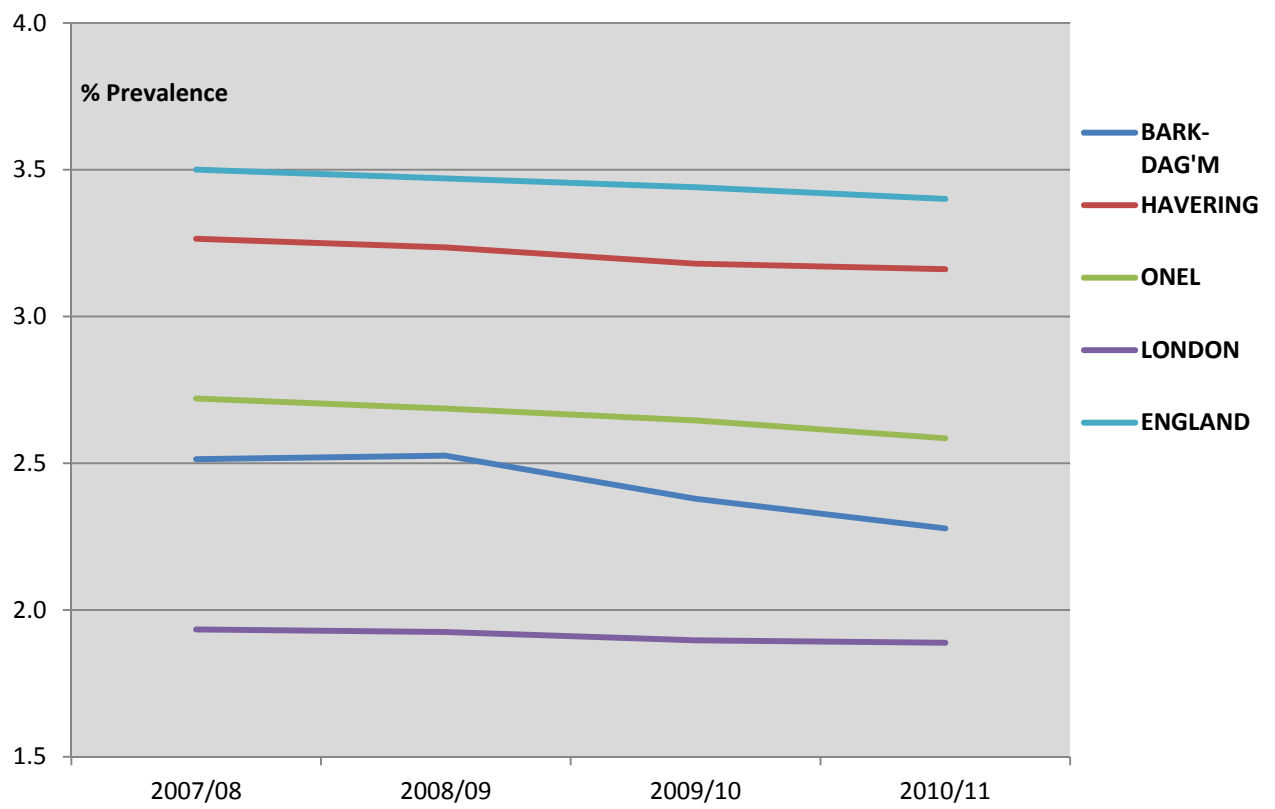


Figure 2 CHD Prevalence %, 2010-11, London PCTs

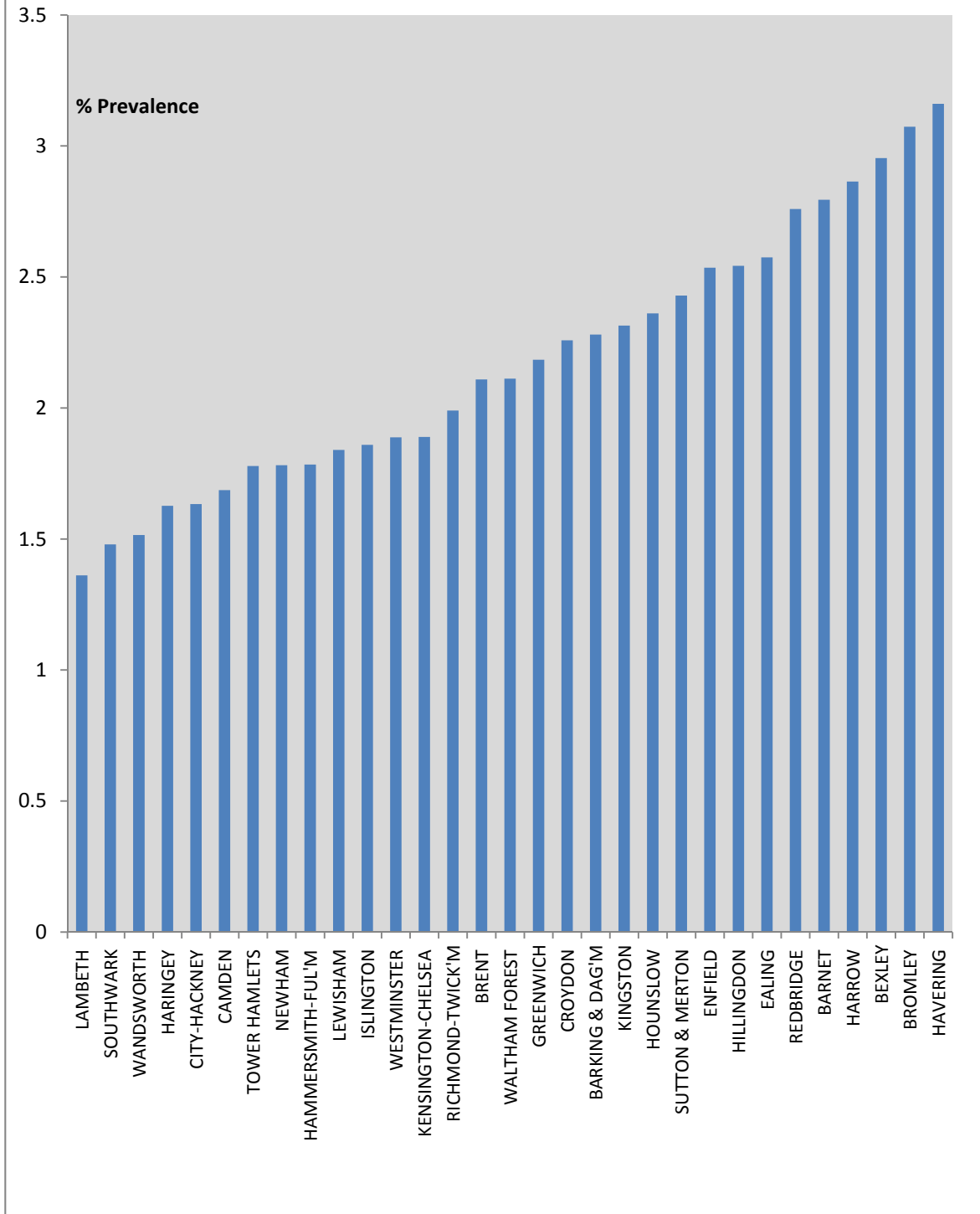


Figure 3 Modelled CHD Prevalence %, 2011

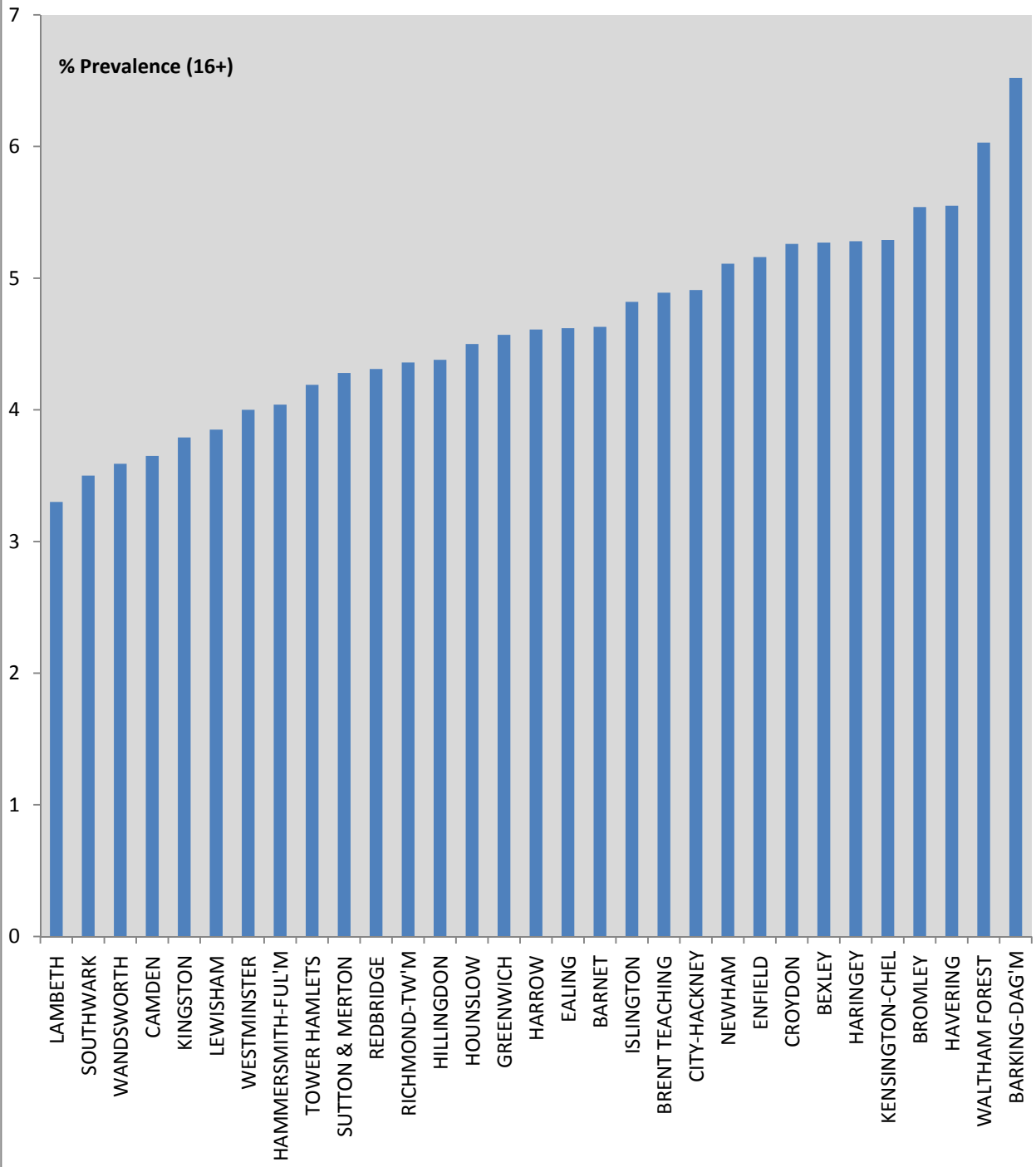


Figure 4 Comparison of Registered and Expected CHD Prevalence, Barking & Dagenham Practices

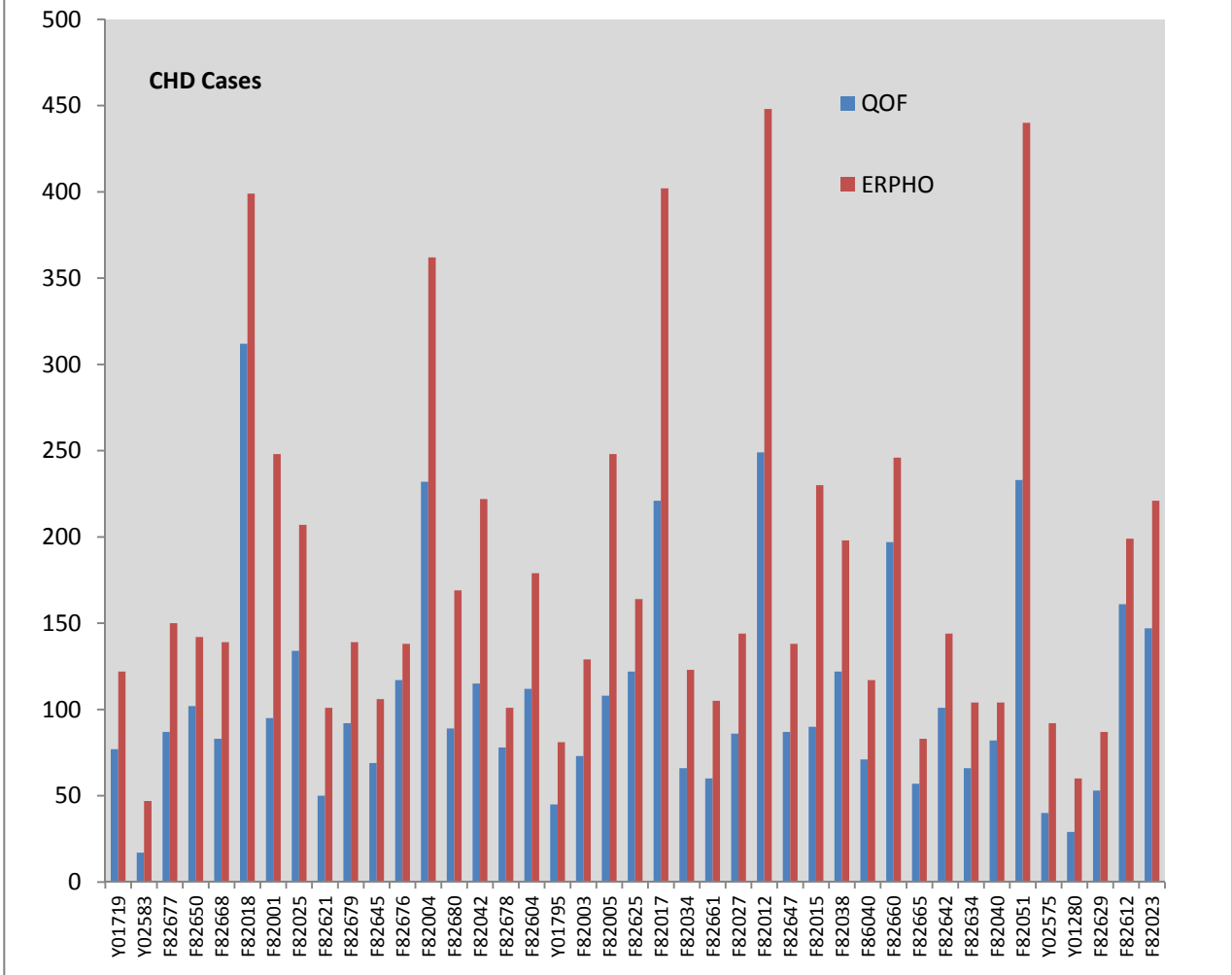


Figure 5 Comparison of Recorded and Expected CHD Cases, Having Practices

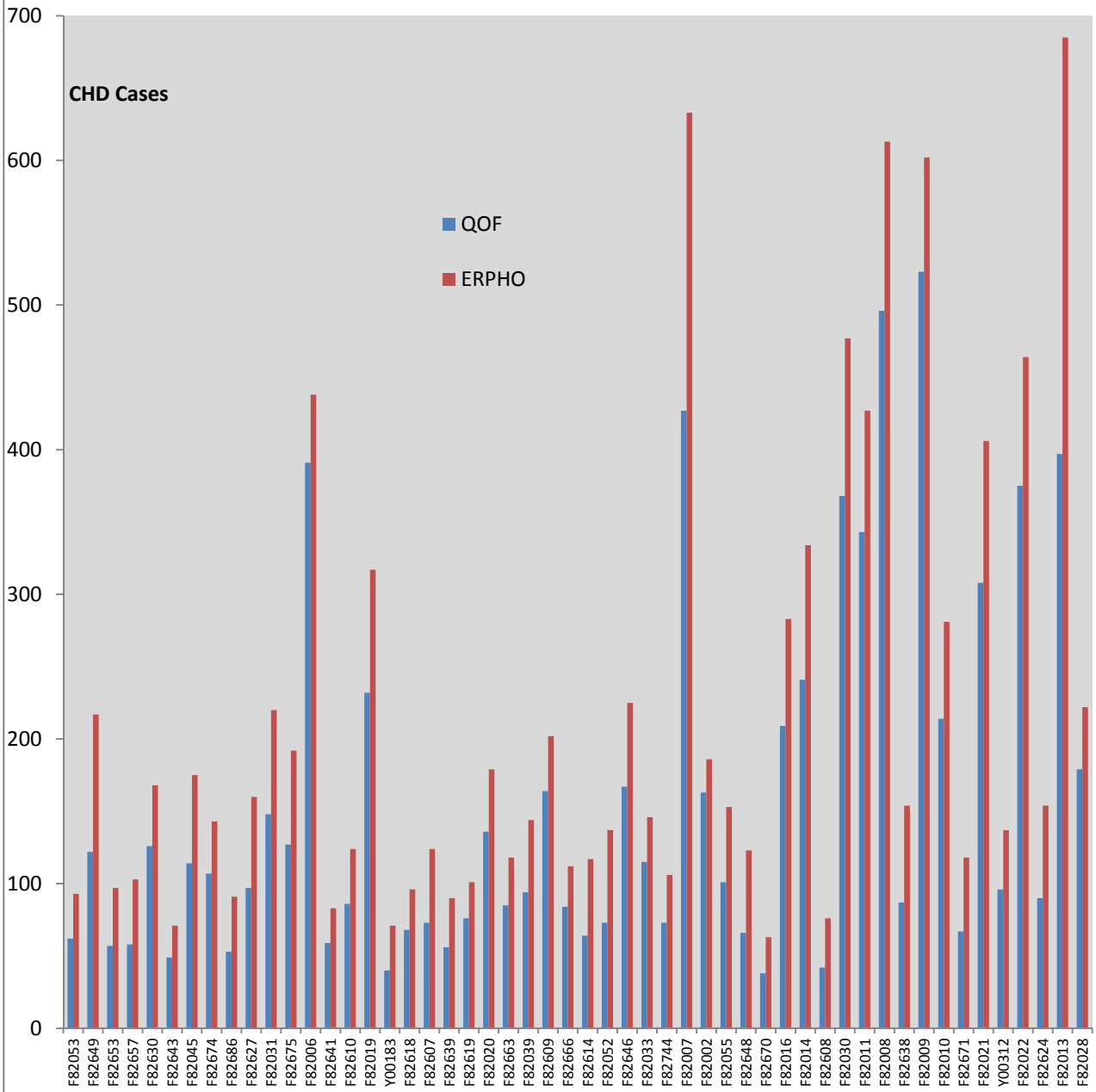


Figure 6 Annual Emergency CHD Admissions per 1000 Modelled Patients, 2006-07 to 2010-11

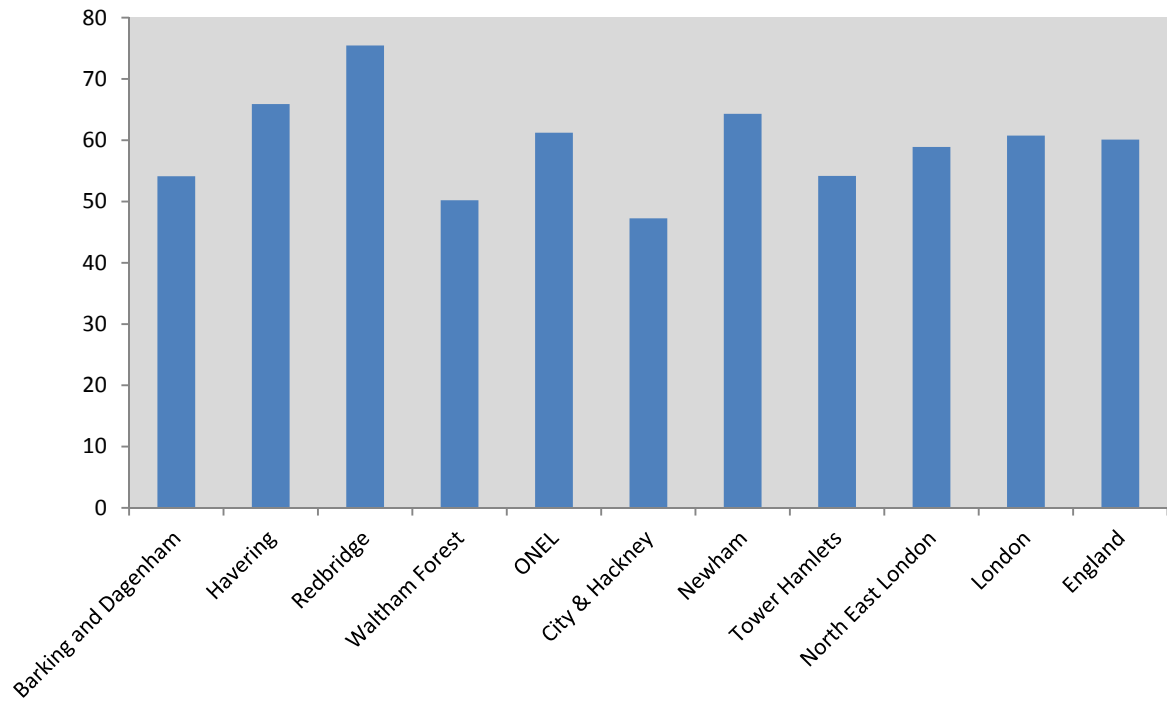


Figure 7 CHD Emergency Admission Rate 2006-07 to 2010-11 (England=100)

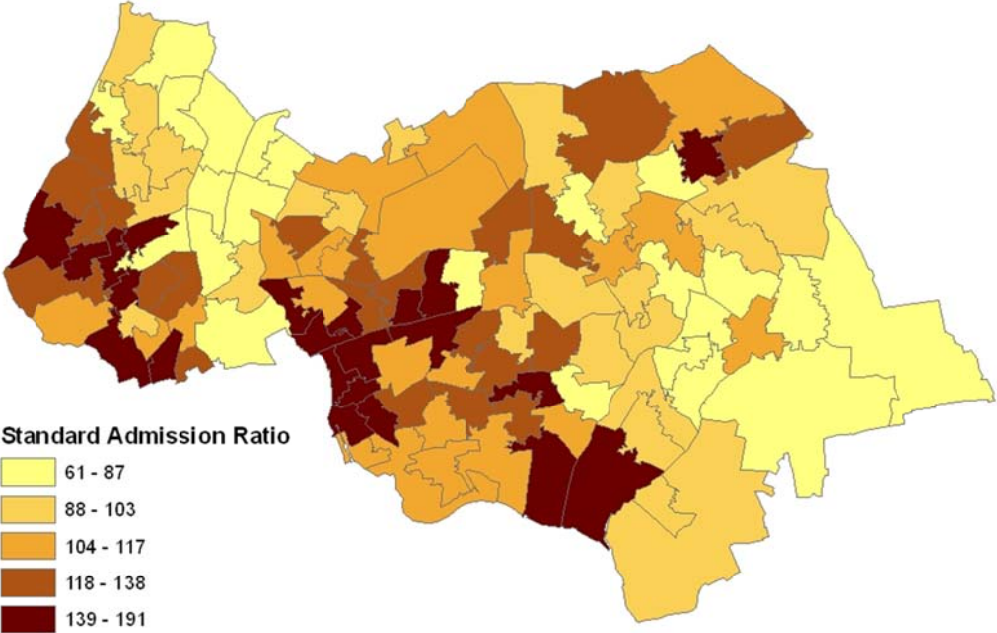


Figure 8 Emergency Hospital Episode Rates by Electoral Ward, 2010-11, Barking & Dagenham

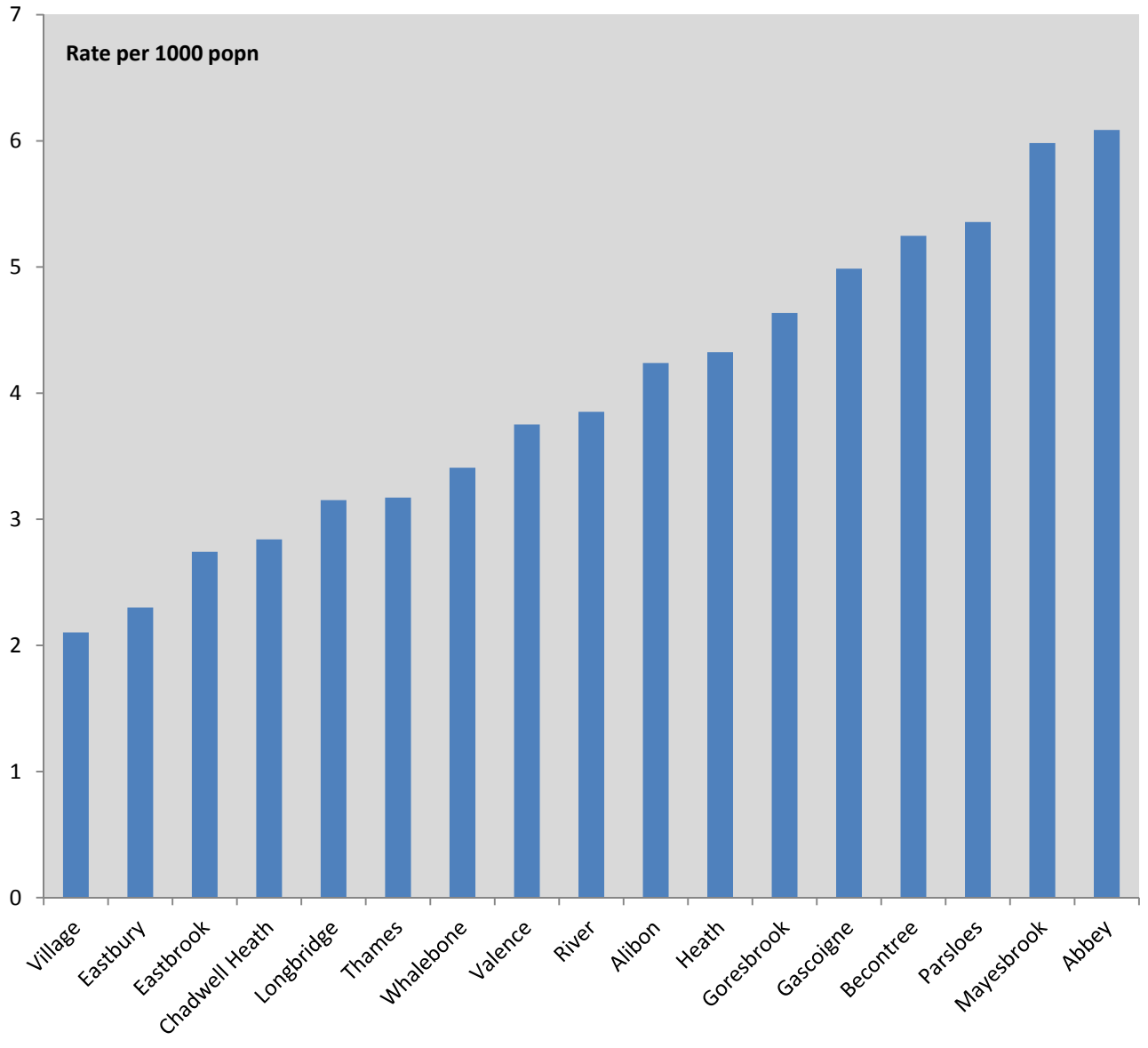


Figure 9 Emergency Hospital Episode Rates by Electoral Ward, 2010-11, Havering

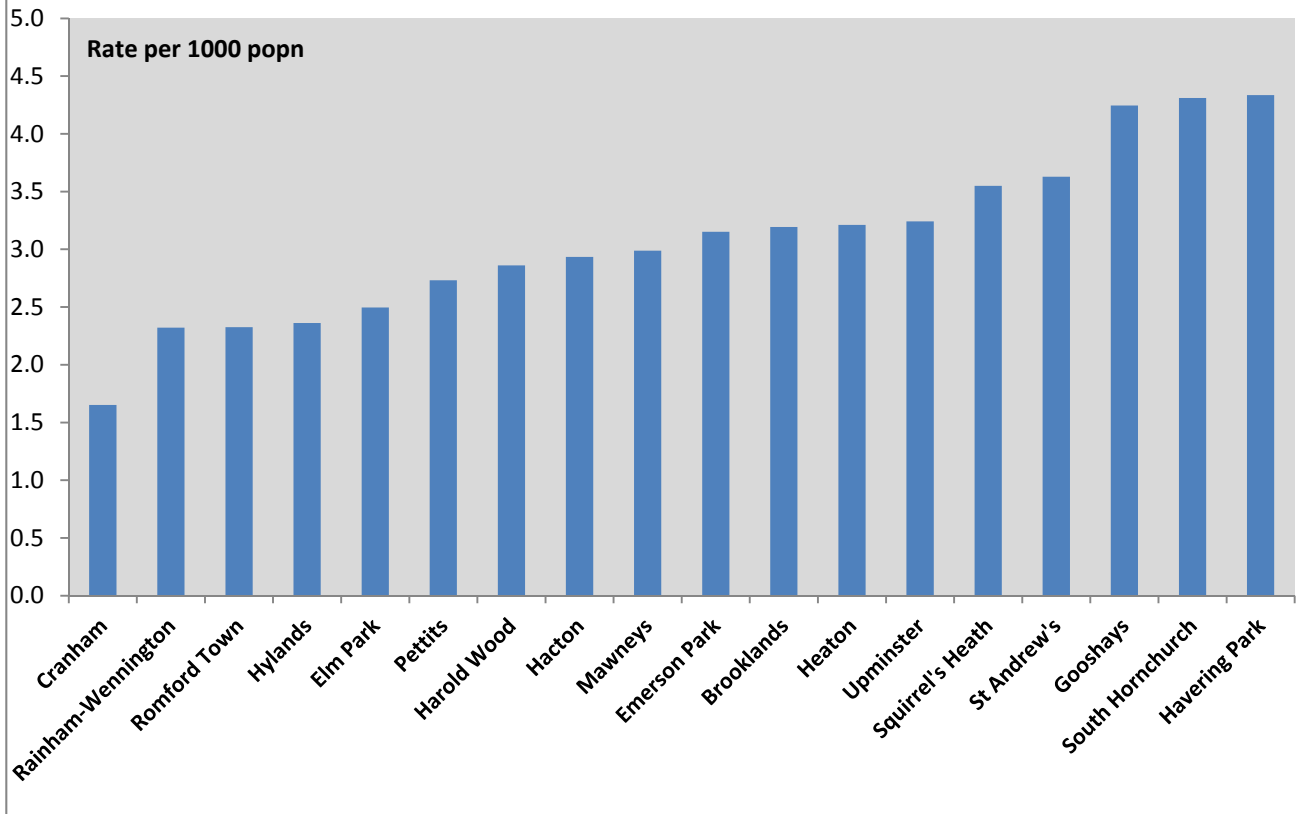


Figure 10 Emergency CHD Admissions 2010-11 per 1000 Patients in Community, Barking & Dagenham

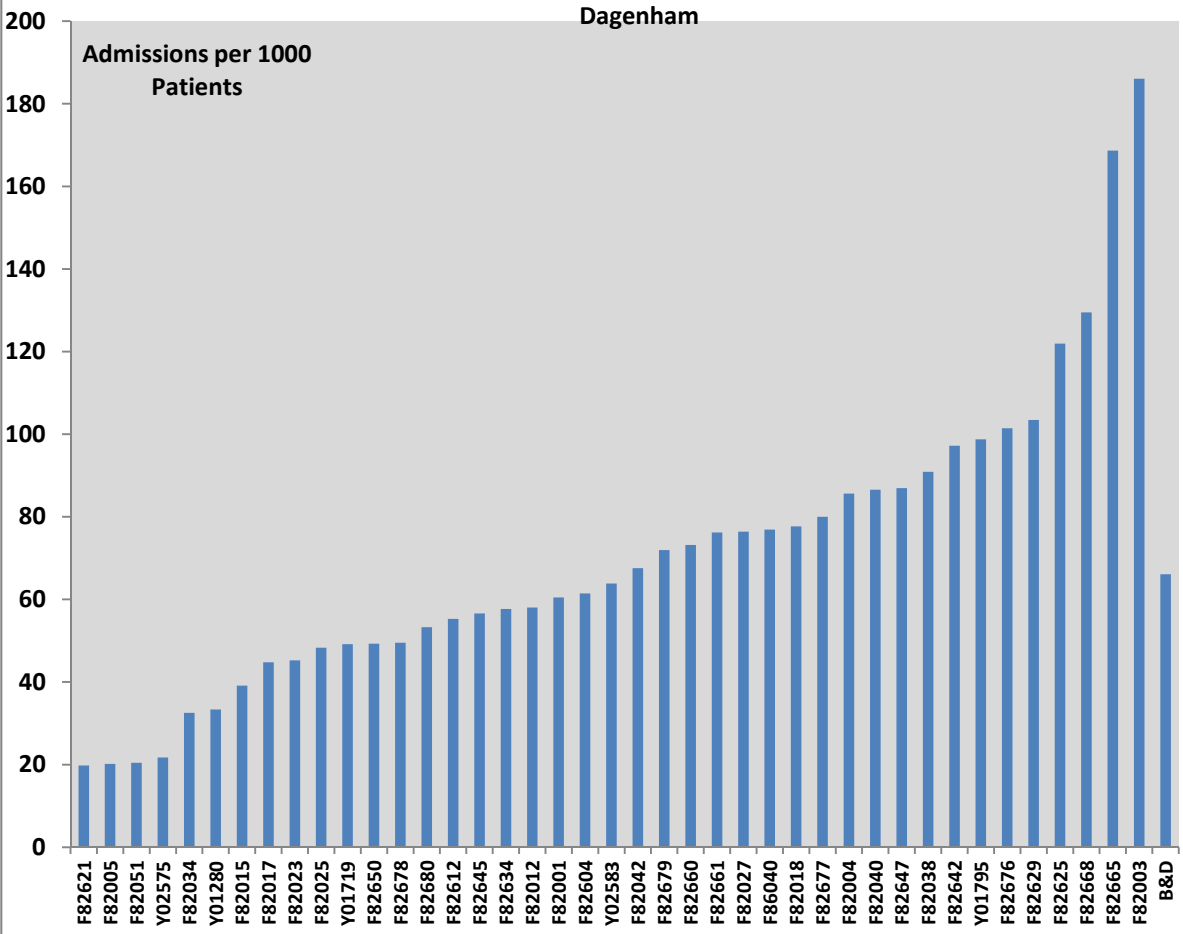


Figure 11 Emergency CHD Admissions per 1000 Patients in Community, 2010-11, Havering

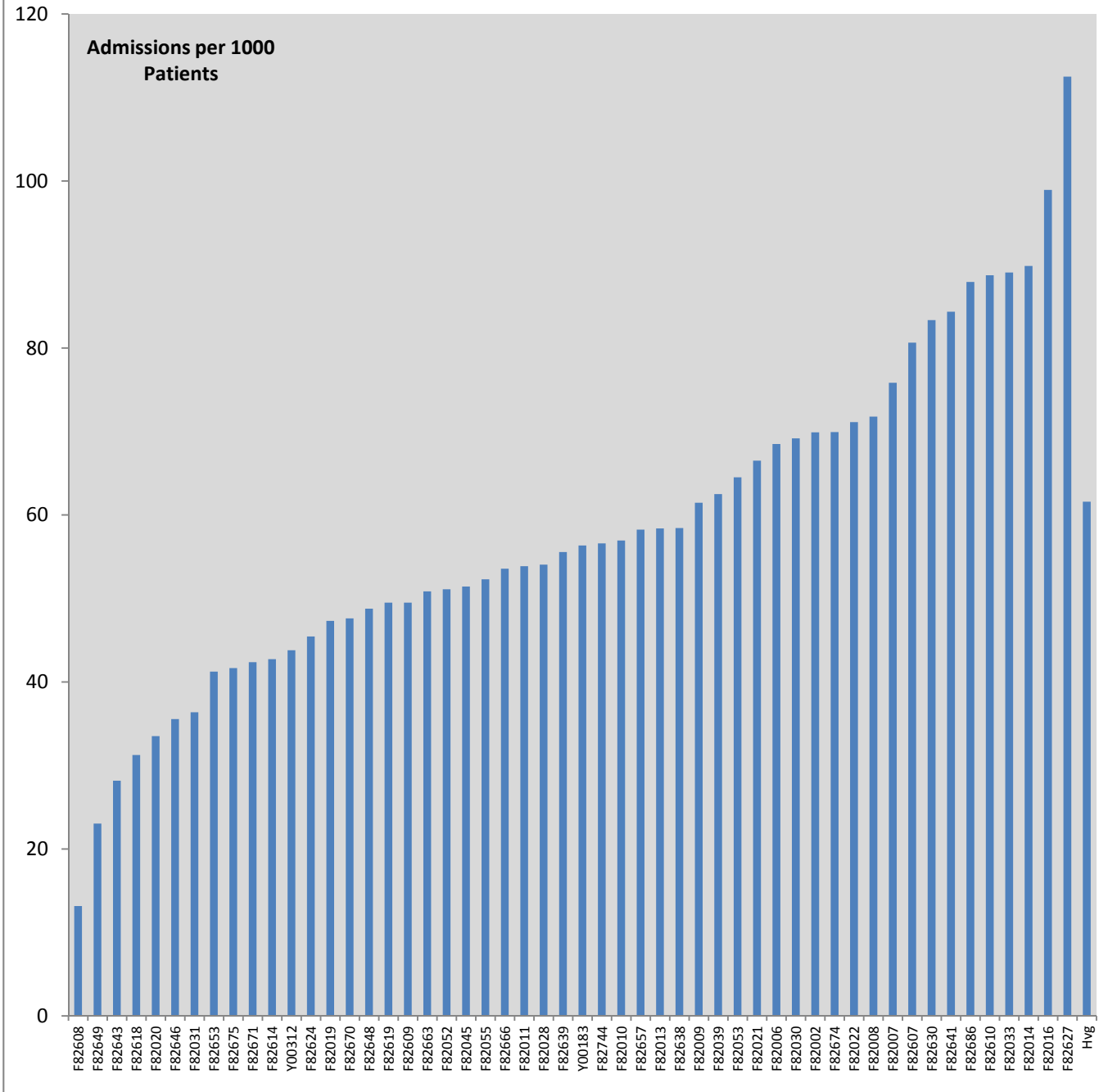
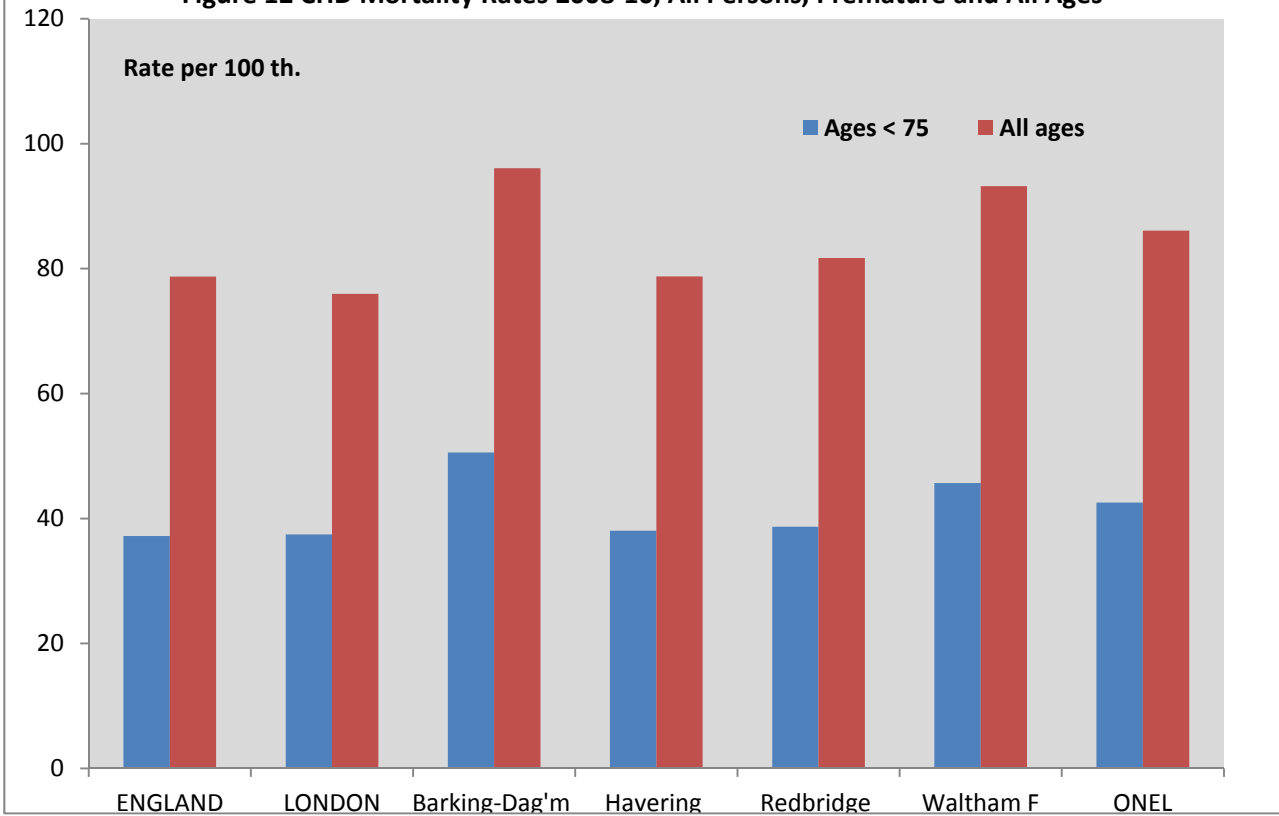


Figure 12 CHD Mortality Rates 2008-10, All Persons, Premature and All Ages



**Figure 13 CHD Mortality in Barking & Dagenham wards, 2008-10
(England = 100)**

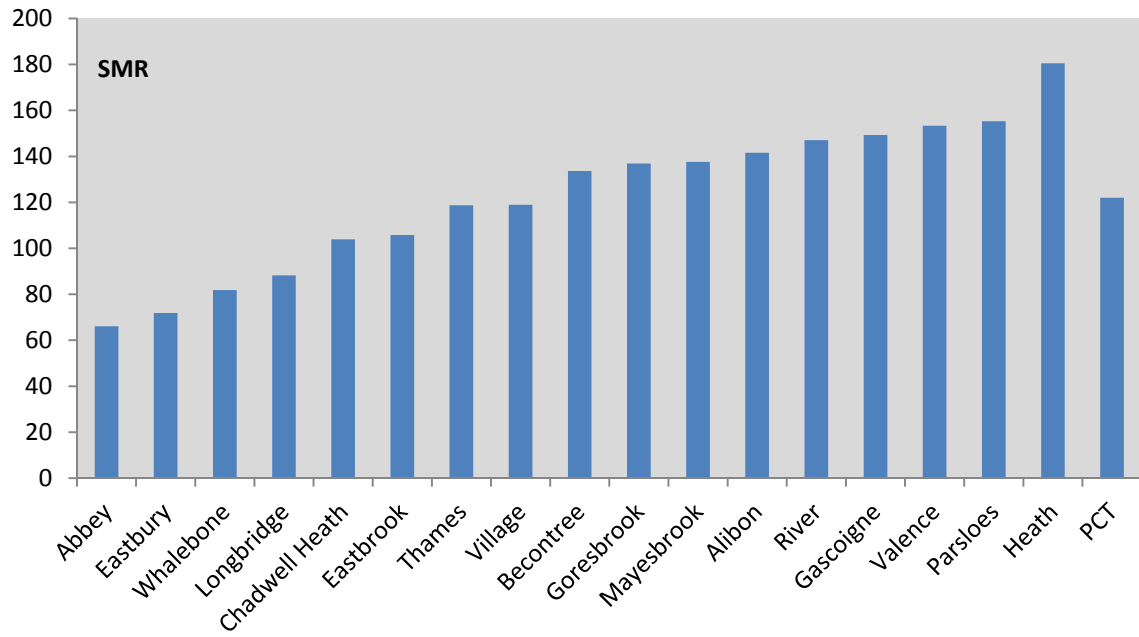


Figure 14 CHD Mortality in Havering wards, 2008-10 (England=100)

