

Diabetes Prevalence and Care: an Indicator Review

Peter Congdon, January 2012

1. Background: Diabetes mortality and prevalence

1.1 The recent National Diabetes Audit (NDA) reported that there are about 24,000 ‘excess deaths’ annually across England in people with diagnosed diabetes. The study found that the risk of death for people with type 1 diabetes is 2.6 times higher than that of the general population, while for people with type 2 diabetes it is 1.6 times higher. Analysis¹ by the YHPHO shows that life expectancy is reduced by 5 years for males and 7 years for females with type 2 diabetes (at age 55 years).

1.2 The NDA report also found a strong link between deprivation and increased rates of early death among diagnosed diabetics. Death rates among people under 65 from the most deprived backgrounds were double that of those from the least deprived. Since the incidence of diabetes is increasing, this implies a growing level of early deaths occurring among diabetic patients. Table 1 shows that two PCTs in Outer NE London (Barking & Dagenham and Waltham Forest) have a relatively high rate of premature mortality from diabetes (see also Figure 1).

1.3 The growing diabetes disease burden in Outer NE London can be assessed using QOF data (which excludes undiagnosed disease). Registered diabetes patients in England have risen from 2 million (4.5% of the adult population) in 2006-07 to 2.5 million in 2010-11 (or 5.5%). In ONEL the comparable change was from 36000 in 2006-07 (5.1% of the adult population) to 48000 in 2010-11 (6.1% of adults).

1.4 Table 2 shows diagnosed prevalence data by PCT within ONEL, together with YHPHO estimates of undiagnosed diabetes (from Diabetes Community Health Profiles, <http://yhpho.york.ac.uk/diabetesprofiles/default.aspx>). Estimates of undiagnosed diabetes are highest in Havering and Redbridge.

1.5 This report reviews PCT level indicators of diabetes care (section 2), practice indicators (section 3), and ward and neighbourhood contrasts in diabetes prevalence and mortality (section 4). Given targets to reduce

avoidable diabetes admissions, comparison of diabetes admissions to prevalence for 2010-11 are included in section 5.

2 Care Management, Expenditure and Quality of Care Indicators, PCT Level Comparisons

2.1 As well as the recent National Diabetes Audit, effective management of diabetes also figures in government targets to reduce preventable hospital admissions by ensuring effective community care of chronic conditions such as diabetes. Under the Better Care, Better Value (BCBV) initiative, the NHS Institute assess potential cost and volume savings in emergency admissions for ambulatory care sensitive conditions, including diabetes.

2.2 Taking the performance of the top quartile of PCTs as the benchmark, Table 3 shows potential annual cost savings for diabetes admissions across Outer NE London of £1.5 million (1.9% of the England total of £79m). There are also potential volume savings of 650 admissions, including 140 from Barking & Dagenham and 186 from Havering.

2.3 Emergency admissions for diabetes can be compared with registered patients. The most recent NHS Comparator Data (for 2009-09) for emergency diabetes admissions as compared to registered patients (see Table 4) show PCTs in Outer NE London - especially Havering and Barking & Dagenham - to have high rates.

2.4 To set the BCBV indicators in a broader expenditure context, the YPHO present data on Diabetes Outcomes Versus Expenditure in 2009-10. Table 5 (and Figure 2) shows that programme budget spending per diabetes patient is relatively low in two of the four ONEL PCTs (Redbridge and Waltham Forest), but that diabetes prescribing spending is relatively high across all PCTs in the sector.

2.5 Quality of care for diabetic patients can be measured in part by the intervention rates for diabetic complications (Table 6). Rates for limb amputation and diabetic coma are mostly similar to national levels, except for the elevated diabetic coma rate in Barking and Dagenham (Figure 3).

2.6 The quality of diabetes primary care can also be assessed in part using indicators from the QOF. Table 7 shows indicators DM12, DM17, DM23 and DM 24 for 2010-11. DM12 records the percentage of diabetes patients with a last blood pressure reading of 145/85 or less, since effective blood pressure management reduces the risk of macrovascular and microvascular disease. ONEL as a whole performs relatively well on this indicator, but within the sector Havering PCT performs best (86.2% performance) and Barking & Dagenham performs worst (80.8% performance).

2.7 Indicator DM17 measures cholesterol management among diabetic patients, with Havering GP practices again the best performing in the sector. Indicators DM23 and DM24 relate to HBA management among diabetic patients. These indicators also show Havering PCT practices as the best performing.

3. Diabetes Prevalence and Care Variations for GP Practices.

3.1 Appendix Table 1 lists GP practices in outer NE London according to their diabetes prevalence rates in 2010-11 and performance on blood pressure, cholesterol and HBA management (QOF indicators DM12, DM17, DM23, DM24). Table 8 summarises variations between GP practices within each PCT. Of particular note are the high number (19, compared to 5 expected) of practices in Redbridge with prevalence in the top English decile (i.e. among the top ten per cent of prevalence rates among all England practices). Barking and Dagenham and Waltham Forest both have 7 practices in the highest England prevalence decile.

3.2 Table 9 summarises quality of care in terms of blood pressure, cholesterol and glycaemic control by comparing ONEL practices with the lowest performing decile among all English practices. For example, 20 out of 189 practices across outer NE London are in the ten percent worst performing English practices for blood pressure management. There are 189 practices across ONEL, so that performance matching England norms would result in 19 practices in the lowest performing decile. Considering individual PCTs, 7 practices in Barking and Dagenham are in the lowest decile for blood pressure management, compared to 4 expected.

3.3 In fact across the four indicators (DM12, DM17, DM23, DM24), the worst relative performance for ONEL practices is for DM24, glycaemic control with HbA1c < 8. There are 189 practices across ONEL, so that performance matching England norms would result in 19 ONEL practices in the lowest performing decile, whereas in fact there are 28. If performance in the 41 Barking & Dagenham practices matched England levels on DM24, there would be 4 practices in the worst performing decile, whereas there are in fact 7.

4. Area Differences in Diabetes Prevalence and Mortality

4.1 Appendix Table 2 lists standard mortality ratios for 2008-10 for the wards in outer NE London, together with interpolated estimates of diabetes prevalence for 2010-11 (based on the QOF practice data).

4.2 Diabetes mortality (with diabetes as underlying cause) is relatively low, accounting for around 5000 deaths annually in England. However, it has been suggested that the under-reporting of diabetes on the death certificates of diabetic people means that the true impact of diabetes on mortality is underestimated^{2,3}. At borough level, the highest diabetes mortality is in Waltham Forest at 147 during 2007-09. Ward level SMRs for diabetes mortality suggest “hotspots” within the sector, such as St Andrew's (Havering) with an SMR of 195, Cranbrook (Redbridge) with an SMR of 226, Leytonstone (Waltham Forest) with an SMR of 383, and Whalebone (Barking and Dagenham) with an SMR of 204.

4.3 Diabetes prevalence at ward level ranges most within Redbridge, namely from 4% to 8.5%. Within Barking and Dagenham, the highest rates are in Chadwell Heath (7.3%) and Gascoigne (7%). Within Havering, the highest rates are in Gooshays (6.1%) and South Hornchurch (6%).

5 Ward and Practice variations in Diabetes Admissions

5.1 Government strategies to manage chronic disease stress the avoidance of unnecessary hospital admissions. Here hospital episodes during 2009-10 and 2010-11 with diabetes as the primary ICD are compared to totals of registered diabetes patients, over both GP practices and electoral wards.

Because hospital episodes rather than admissions are used, the hospitalisation rates per 1000 patients are higher than in Table 4.

5.2 Appendix Table 3 compares episodes and prevalence at GP practice level. The ONEL wide rate of annual episodes per 1000 diabetes patients is 37.6 per 1000. However, the highest ratios of episodes to prevalence are concentrated in Barking & Dagenham and Havering GP practices. Figure 4 shows that twelve Barking and Dagenham practices have episode to patient rates over twice the ONEL average. In Havering, twenty practices have episode to patient rates more than twice the ONEL average (Figure 5).

5.3 Appendix Table 4 compares episodes and prevalence at electoral ward level. High ratios of episodes to registered patients tend to be in relatively deprived wards in Barking and Dagenham and Havering (Figures 6 and 7). The highest in Barking and Dagenham are for Valence and Alibon wards, both with 90 hospital episodes per 1000 registered patients, and for Havering the highest are for Havering Park (118 episodes per 1000 patients) and Gooshays (100 episodes per 1000 patients).

6 Implications

6.1 Routine data provide some insights into care patterns for diabetes patients in Outer NE London. Of particular note are the following

- Premature deaths from diabetes are high in two of the four ONEL PCTs (Table 1, Figure 1).
- Estimates of undiagnosed diabetes are highest in Havering and Redbridge (Table 2).
- Diabetes prevalence is higher in ONEL than the rest of London or England (Table 2).
- Hospital admission and episode rates for registered patients are relatively high in Barking & Dagenham and Havering (Table 4, Figures 4 to 7).
- Admissions for diabetic coma are relatively high in Barking & Dagenham (Table 6, Figure 3).

- While data from the QOF (see Table 9) show blood pressure and cholesterol management broadly in line with England wide standards, HBA management is more problematic.

References

1. YHPHO Diabetes: key facts.
<http://www.yhpho.org.uk/resource/item.aspx?RID=8872>
2. Eur J Public Health. 2008, 18(2):201-203. Reporting of diabetes on death certificates of 1872 people with type 2 diabetes in Tayside, Scotland. Evans J, Barnett K, McMurdo M, Morris A.
3. Relationship between diabetes and mortality: a population study using record linkage. Morgan C, Currie C, Peters J. Diabetes Care. 2000, 23(8):1103-7.

Table 1 Years of life lost due to mortality at ages under 75 from diabetes, 2007-09

	Males		Feamles		Persons	
	Deaths	Rate per 100 thousand	Deaths	Rate per 100 thousand	Deaths	Rate per 100 thousand
ENGLAND	33015	47	22477	32	55492	40
LONDON	4450	42	2939	28	7389	35
Barking & Dagenham	191	83	74	30	265	56
Havering	99	32	56	18	155	25
Redbridge	130	36	174	48	304	42
Waltham Forest	264	84	230	75	494	80

Table 2 Diabetes Prevalence (QOF 2010-11)

	Total diagnosed patients	Percent Prevalence (ages 17+)	Undiagnosed (2009/10)*
England	2455937	5.5	
London	376868	5.4	
Barking & Dagenham	8891	6.2	1077
Havering	11124	5.4	3227
Redbridge	15115	7.0	3739
Waltham Forest	13214	5.9	1448
Outer NE London	48344	6.1	9491

* Diabetes Community Health Profiles,
<http://yhpho.york.ac.uk/diabetesprofiles/default.aspx>

Table 3 Emergency Admissions for all ASC and Diabetes, 2011/12 Q1
Source: Better Care, Better Value Indicators

Area	Emergency admissions per 100,000 population	Financial Opportunity (£m) (25th percentile)	No. of emergency admissions (Volume opportunity)	Emergency admissions per 100,000 population	Financial Opportunity (£m) (25th percentile)	No. of emergency admissions (Volume opportunity)
All ambulatory sensitive						
	Quarterly			Annualized		
England	381	190	102461	1526	759	409846
Barking & Dag'm	455	0.9	493	1820	3.6	1970
Havering	420	0.9	453	1678	3.6	1811
Redbridge	486	0.7	423	1944	2.8	1690
Waltham Forest	419	0.9	584	1676	3.7	2335
Outer NE London	445	3.4	1952	1779	13.7	7806
Diabetes complications						
	Quarterly			Annualized		
England	27	20	7662	107.6	79.1	30647
Barking & Dag'm	30	0.08	35	120.4	0.34	140
Havering	34	0.10	46	136.4	0.38	186
Redbridge	37	0.07	31	148.5	0.27	122
Waltham Forest	31	0.13	49	124.9	0.53	196
Outer NE London	33	0.38	161	132.6	1.52	645

Table 4 Emergency admission rates for diabetes per 1000 registered patients, 2008-09
(Source: NHS Comparators)

Area	Admission rate per 1000		
	patients	Admissions	Patients
National	16.7	36881	2213138
London SHA	15.7	5303	337561
Outer NE London	16.5	697	42355
Barking & Dagenham PCT	17.8	139	7821
Havering PCT	20.1	200	9945
Redbridge PCT	14.2	184	12982
Waltham Forest PCT	15.0	174	11607

Table 5 Programme budgeting spend (program 4a) and Spend on oral anti-diabetic drugs (per person on the diabetes QOF register,2009-10)

	PB Spend per registered patient	Rank among 152 England PCTs	Spend per head on anti-diabetic drugs	Rank among 152 England PCTs
NHS Barking and Dagenham	£535.6	75	£109.8	140
NHS Havering	£493.1	55	£94.3	111
NHS Redbridge	£409.3	10	£105.3	135
NHS Waltham Forest	£362.9	3	£122.6	149
Median PCT Spend	£536.2	76	£85.0	76

Source <http://www.yhpho.org.uk/default.aspx?RID=88739>

Table 6 Diabetes Complications, Hospital Indicators (NCHOD)

	Lower limb amputations in diabetic patients (rate per 100,000)		
	2009/10	2008/09	2007/08
ENGLAND	10.72	10.93	10.31
LONDON	8.87	10.60	10.25
Barking and Dagenham	9.12	13.78	14.52
Havering	6.41	8.09	4.50
Redbridge	7.64	7.77	8.79
Waltham Forest	10.98	12.35	10.57

Emergency hospital admissions: diabetic ketoacidosis & coma, rates per 100,000

	2009/10	2008/09	2007/08
ENGLAND	27.09	26.84	26.65
LONDON	26.55	25.76	27.47
Barking and Dagenham	43.04	37.49	52.57
Havering	27.57	34.20	27.94
Redbridge	23.25	23.10	23.08
Waltham Forest	23.99	35.08	22.87

Table 7 Diabetes Primary Care Indicators (QOF 2010-11)**Blood Pressure Management (DM12)**

	Numerator	Denominator	Achievement
England	1874045	2306863	0.814
London	287322	355233	0.809
Outer NE London	37817	45677	0.828
Barking & Dag'm	6812	8410	0.808
Havering	8981	10517	0.862
Redbridge	11925	14461	0.831
Waltham Forest	10099	12289	0.814

Cholesterol Management (DM17)

	Numerator	Denominator	Achievement
England	1841691	2222877	0.827
London	280294	346292	0.808
Outer NE London	36493	44487	0.820
Barking & Dag'm	6778	8237	0.818
Havering	8705	10184	0.854
Redbridge	11420	14196	0.801
Waltham Forest	9590	11870	0.806

Glycaemic Control (HbA1c < 7) (DM23)

	Numerator	Denominator	Achievement
England	1151657	2125864	0.544
London	171140	328294	0.530
Outer NE London	22232	41664	0.534
Barking & Dag'm	4043	7702	0.527
Havering	5175	9373	0.563
Redbridge	7041	13684	0.514
Waltham Forest	5973	10905	0.551

Glycaemic Control (HbA1c < 8) (DM24)

	Numerator	Denominator	Achievement
England	1731614	2219688	0.778
London	256979	341382	0.754
Outer NE London	32763	43416	0.755
Barking & Dag'm	5902	7959	0.735
Havering	7665	9855	0.778
Redbridge	10518	14123	0.745
Waltham Forest	8678	11479	0.750

Table 8 Variations within PCTs in GP Practice Diabetes Prevalence

PCT Name	Number of Practices	Average of GP Prevalence Rates	Maximum Prevalence	Minimum Prevalence	Number of Practices with Prevalence above England ninth decile
Barking & Dag'm	41	0.061	0.105	0.024	7
Havering	53	0.054	0.079	0.033	1
Redbridge	48	0.071	0.108	0.034	19
Waltham Forest	47	0.061	0.106	0.013	7
Outer NE London	189	0.062	0.108	0.013	34

Table 9 Diabetes care management: performance better or worse than lowest decile (all GP practices in England)

PCT Name	Number of GP Practices In any management indicator (DM12, DM17, DM23 or DM24)		Total
	Better than England 10th decile	Worse than England 10th decile	
		decile	
Barking & Dag'm	29	12	41
Havering	41	12	53
Redbridge	32	16	48
Waltham Forest	32	15	47
Outer NE London	134	55	189

PCT Name	Number of GP Practices Blood Pressure Management (DM12)		Total
	Better than England 10th decile	Worse than England 10th decile	
		decile	
Barking & Dag'm	34	7	41
Havering	47	6	53
Redbridge	46	2	48
Waltham Forest	42	5	47
Outer NE London	169	20	189

PCT Name	Number of GP Practices Cholesterol Management (DM17)		Total
	Better than England 10th decile	Worse than England 10th decile	
		decile	
Barking & Dag'm	37	4	41
Havering	49	4	53
Redbridge	39	9	48
Waltham Forest	40	7	47
Outer NE London	165	24	189

PCT Name	Number of GP Practices Glycaemic Control (HbA1c < 7) (DM23)		Total
	Better than England 10th decile	Worse than England 10th decile	
		decile	
Barking & Dag'm	37	4	41
Havering	48	5	53
Redbridge	42	6	48
Waltham Forest	45	2	47
Outer NE London	172	17	189

PCT Name	Number of GP Practices Glycaemic Control (HbA1c < 8) (DM24)		Total
	Better than England 10th decile	Worse than England 10th decile	
		decile	
Barking & Dag'm	34	7	41
Havering	47	6	53
Redbridge	40	8	48
Waltham Forest	40	7	47
Outer NE London	161	28	189

Appendix Table 1 Diabetes Prevalence and Management 2010-11 Practices in Outer NE London

PCT Name	Practice Code	Diabetes Mellitus (Diabetes) Register (ages 17+)	Diabetes Mellitus (Diabetes) Prevalence	BP under 148/85 mm (DM12)	Cholesterol under 5mmol/l (DM17)	HbA1c 7 or less (DM23)	HbA1c 8 or less (DM24)	Performance worse than England lowest decile in any management indicator
BARKING & DAG'M	Y01719	108	0.044	0.857	0.816	0.551	0.805	No
BARKING & DAG'M	Y02583	79	0.026	0.769	0.790	0.674	0.782	No
BARKING & DAG'M	F82677	216	0.058	0.819	0.902	0.704	0.856	No
BARKING & DAG'M	F82650	260	0.069	0.896	0.880	0.631	0.813	No
BARKING & DAG'M	F82668	151	0.073	0.847	0.826	0.504	0.717	No
BARKING & DAG'M	F82018	656	0.082	0.845	0.813	0.464	0.712	No
BARKING & DAG'M	F82001	206	0.047	0.749	0.781	0.370	0.619	Yes
BARKING & DAG'M	F82025	176	0.053	0.813	0.716	0.513	0.704	Yes
BARKING & DAG'M	F82621	103	0.046	0.644	0.804	0.460	0.693	Yes
BARKING & DAG'M	F82679	175	0.052	0.824	0.830	0.448	0.685	Yes
BARKING & DAG'M	F82645	95	0.056	0.874	0.810	0.500	0.803	No
BARKING & DAG'M	F82676	250	0.067	0.811	0.846	0.613	0.787	No
BARKING & DAG'M	F82004	441	0.053	0.714	0.769	0.427	0.652	Yes
BARKING & DAG'M	F82680	177	0.050	0.838	0.820	0.518	0.726	No
BARKING & DAG'M	F82042	256	0.054	0.847	0.886	0.656	0.842	No
BARKING & DAG'M	F82678	129	0.071	0.895	0.810	0.692	0.864	No
BARKING & DAG'M	F82604	181	0.069	0.722	0.792	0.459	0.718	No
BARKING & DAG'M	Y01795	87	0.055	0.613	0.700	0.027	0.027	Yes
BARKING & DAG'M	F82003	209	0.079	0.741	0.794	0.590	0.777	No
BARKING & DAG'M	F82005	220	0.059	0.808	0.870	0.606	0.824	No
BARKING & DAG'M	F82625	328	0.063	0.824	0.866	0.550	0.776	No
BARKING & DAG'M	F82017	431	0.068	0.655	0.816	0.554	0.760	Yes
BARKING & DAG'M	F82034	156	0.049	0.824	0.819	0.529	0.713	No
BARKING & DAG'M	F82661	143	0.052	0.906	0.861	0.435	0.778	Yes
BARKING & DAG'M	F82027	144	0.058	0.813	0.825	0.523	0.744	No
BARKING & DAG'M	F82012	351	0.067	0.858	0.869	0.556	0.776	No
BARKING & DAG'M	F82647	295	0.076	0.887	0.789	0.513	0.756	No
BARKING & DAG'M	F82015	206	0.054	0.897	0.875	0.641	0.802	No
BARKING & DAG'M	F82038	268	0.069	0.700	0.741	0.449	0.668	Yes
BARKING & DAG'M	F86040	135	0.054	0.875	0.832	0.595	0.777	No
BARKING & DAG'M	F82660	422	0.078	0.862	0.795	0.591	0.801	No
BARKING & DAG'M	F82665	234	0.105	0.752	0.796	0.461	0.694	No
BARKING & DAG'M	F82642	221	0.079	0.878	0.916	0.580	0.793	No
BARKING & DAG'M	F82634	117	0.047	0.677	0.849	0.553	0.753	Yes
BARKING & DAG'M	F82040	131	0.065	0.595	0.793	0.460	0.613	Yes
BARKING & DAG'M	F82051	406	0.064	0.858	0.880	0.494	0.758	No
BARKING & DAG'M	Y02575	57	0.024	0.848	0.765	0.568	0.780	No
BARKING & DAG'M	Y01280	91	0.053	0.922	0.747	0.500	0.678	Yes
BARKING & DAG'M	F82629	76	0.060	0.826	0.785	0.574	0.807	No
BARKING & DAG'M	F82612	291	0.083	0.848	0.835	0.495	0.704	No
BARKING & DAG'M	F82023	213	0.060	0.879	0.815	0.560	0.813	No

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PCT Name	Practice Code	Diabetes Register (ages 17+)	Diabetes Prevalence	BP under 148/85 mm	Cholesterol under 5mmol/l	HbA1c 7 or less	HbA1c 8 or less	Performance worse than England lowest decile, any management indicator
HAVERING	F82053	91	0.036	0.698	0.738	0.434	0.694	Yes
HAVERING	F82649	242	0.061	0.813	0.784	0.578	0.809	No
HAVERING	F82653	81	0.033	0.923	0.887	0.387	0.645	Yes
HAVERING	F82657	89	0.054	0.882	0.816	0.584	0.759	No
HAVERING	F82630	221	0.062	0.837	0.793	0.545	0.726	No
HAVERING	F82643	72	0.049	0.631	0.769	0.263	0.403	Yes
HAVERING	F82045	122	0.045	0.787	0.586	0.487	0.644	Yes
HAVERING	F82674	157	0.050	0.973	0.942	0.693	0.881	No
HAVERING	F82686	112	0.042	0.912	0.956	0.621	0.879	No
HAVERING	F82627	221	0.064	0.707	0.793	0.639	0.849	Yes
HAVERING	F82031	238	0.063	0.763	0.809	0.449	0.651	Yes
HAVERING	F82675	169	0.047	0.937	0.832	0.563	0.758	No
HAVERING	F82006	467	0.059	0.949	0.958	0.634	0.866	No
HAVERING	F82641	89	0.060	0.920	0.916	0.519	0.756	No
HAVERING	F82610	133	0.058	0.909	0.777	0.559	0.754	No
HAVERING	F82019	393	0.079	0.808	0.771	0.556	0.713	No
HAVERING	Y00183	71	0.044	0.910	0.922	0.590	0.806	No
HAVERING	F82618	111	0.069	0.847	0.856	0.889	0.889	No
HAVERING	F82607	104	0.054	0.920	0.926	0.540	0.774	No
HAVERING	F82639	99	0.047	0.909	0.846	0.521	0.701	No
HAVERING	F82619	91	0.058	0.640	0.761	0.372	0.614	Yes
HAVERING	F82020	135	0.054	0.789	0.815	0.451	0.729	No
HAVERING	F82663	104	0.045	0.724	0.857	0.495	0.755	No
HAVERING	F82039	149	0.054	0.786	0.852	0.508	0.828	No
HAVERING	F82609	202	0.062	0.908	0.924	0.693	0.898	No
HAVERING	F82666	130	0.059	0.843	0.891	0.569	0.776	No
HAVERING	F82614	127	0.072	0.906	0.792	0.598	0.815	No
HAVERING	F82052	129	0.056	0.882	0.853	0.505	0.736	No
HAVERING	F82646	281	0.064	0.927	0.748	0.518	0.744	Yes
HAVERING	F82033	148	0.060	0.950	0.962	0.658	0.880	No
HAVERING	F82744	135	0.070	0.916	0.892	0.559	0.754	No
HAVERING	F82007	504	0.049	0.858	0.890	0.524	0.792	No
HAVERING	F82002	145	0.040	0.958	0.940	0.662	0.881	No
HAVERING	F82055	151	0.051	0.972	0.934	0.591	0.853	No
HAVERING	F82648	132	0.064	0.937	0.944	0.615	0.853	No
HAVERING	F82670	72	0.045	0.940	0.778	0.675	0.857	No
HAVERING	F82016	293	0.054	0.935	0.924	0.665	0.812	No
HAVERING	F82014	324	0.059	0.943	0.858	0.539	0.737	No
HAVERING	F82608	67	0.045	0.955	0.908	0.623	0.841	No
HAVERING	F82030	350	0.042	0.780	0.766	0.368	0.588	Yes
HAVERING	F82011	445	0.057	0.899	0.924	0.570	0.873	No
HAVERING	F82008	675	0.056	0.863	0.885	0.536	0.761	No
HAVERING	F82638	143	0.043	0.986	0.904	0.524	0.806	No
HAVERING	F82009	589	0.057	0.871	0.859	0.512	0.791	No
HAVERING	Y02973	6	0.049	1.000	1.000	1.000	1.000	No
HAVERING	F82010	281	0.059	0.946	0.916	0.623	0.856	No
HAVERING	F82671	118	0.060	0.908	0.745	0.544	0.779	Yes
HAVERING	F82021	364	0.045	0.800	0.823	0.492	0.755	No
HAVERING	Y00312	160	0.051	0.786	0.851	0.530	0.750	No
HAVERING	F82022	470	0.057	0.678	0.886	0.487	0.762	Yes
HAVERING	F82624	147	0.058	0.771	0.768	0.532	0.743	No
HAVERING	F82013	538	0.044	0.694	0.803	0.719	0.852	Yes
HAVERING	F82028	237	0.060	0.925	0.916	0.549	0.792	No

Appendix Table 1 Diabetes Prevalence and Management 2010-11 Practices in Outer NE London

PCT Name	Practice Code	Diabetes Mellitus (Diabetes) Register (ages 17+)	Diabetes Mellitus (Diabetes) Prevalence	BP under 148/85 mm (DM12)	Cholesterol under 5mmol/l (DM17)	HbA1c 7 or less (DM23)	HbA1c 8 or less (DM24)	Performance worse than England lowest decile in any management indicator
REDBRIDGE	F86731	156	0.054	0.685	0.690	0.522	0.715	Yes
REDBRIDGE	F86042	317	0.092	0.809	0.842	0.617	0.835	No
REDBRIDGE	F86081	283	0.065	0.865	0.842	0.535	0.738	No
REDBRIDGE	F86642	270	0.093	0.813	0.788	0.469	0.732	No
REDBRIDGE	F86028	414	0.076	0.772	0.850	0.434	0.727	Yes
REDBRIDGE	F86691	341	0.074	0.863	0.758	0.546	0.774	No
REDBRIDGE	F86698	144	0.076	0.720	0.801	0.493	0.720	No
REDBRIDGE	F86707	239	0.067	0.835	0.762	0.454	0.641	Yes
REDBRIDGE	F86680	99	0.062	0.816	0.739	0.598	0.756	Yes
REDBRIDGE	F86010	744	0.072	0.746	0.778	0.528	0.729	No
REDBRIDGE	F86008	419	0.088	0.900	0.831	0.607	0.817	No
REDBRIDGE	F86020	153	0.035	0.857	0.757	0.492	0.707	No
REDBRIDGE	F86087	407	0.081	0.867	0.865	0.577	0.806	No
REDBRIDGE	Y00918	379	0.107	0.921	0.881	0.420	0.708	Yes
REDBRIDGE	F86034	314	0.070	0.779	0.809	0.483	0.718	No
REDBRIDGE	Y00155	257	0.056	0.855	0.812	0.502	0.717	No
REDBRIDGE	F86085	141	0.072	0.825	0.835	0.444	0.667	Yes
REDBRIDGE	F86082	258	0.108	0.841	0.676	0.356	0.621	Yes
REDBRIDGE	F86022	828	0.087	0.844	0.866	0.625	0.831	No
REDBRIDGE	F86692	279	0.093	0.870	0.734	0.395	0.625	Yes
REDBRIDGE	F86060	765	0.093	0.756	0.820	0.553	0.757	No
REDBRIDGE	F86025	568	0.074	0.780	0.744	0.459	0.673	Yes
REDBRIDGE	F86704	89	0.058	0.874	0.772	0.452	0.659	Yes
REDBRIDGE	F86675	119	0.056	0.920	0.794	0.460	0.719	No
REDBRIDGE	F86012	366	0.043	0.834	0.791	0.552	0.812	No
REDBRIDGE	F86637	254	0.080	0.936	0.867	0.475	0.741	No
REDBRIDGE	F86066	221	0.042	0.841	0.835	0.679	0.829	No
REDBRIDGE	F86635	213	0.089	0.791	0.831	0.524	0.755	No
REDBRIDGE	F86702	175	0.075	0.832	0.722	0.356	0.669	Yes
REDBRIDGE	F86013	167	0.034	0.887	0.831	0.514	0.801	No
REDBRIDGE	F86655	139	0.064	0.831	0.897	0.593	0.782	No
REDBRIDGE	Y00090	551	0.081	0.864	0.808	0.542	0.797	No
REDBRIDGE	F86652	336	0.099	0.803	0.804	0.473	0.732	No
REDBRIDGE	F86083	460	0.093	0.779	0.764	0.469	0.697	No
REDBRIDGE	F86064	179	0.045	0.824	0.752	0.519	0.813	Yes
REDBRIDGE	F86023	271	0.042	0.810	0.819	0.525	0.750	No
REDBRIDGE	F86007	469	0.062	0.782	0.867	0.532	0.769	No
REDBRIDGE	F86612	211	0.086	0.821	0.840	0.532	0.770	No
REDBRIDGE	F86084	179	0.079	0.867	0.790	0.530	0.821	No
REDBRIDGE	F86624	166	0.067	0.816	0.907	0.810	0.946	No
REDBRIDGE	F86009	551	0.084	0.845	0.764	0.448	0.669	Yes
REDBRIDGE	Y02987	801	0.073	0.836	0.816	0.481	0.711	No
REDBRIDGE	F86703	157	0.075	0.894	0.785	0.556	0.750	No
REDBRIDGE	F86641	130	0.036	0.891	0.873	0.528	0.797	No
REDBRIDGE	F86658	148	0.058	0.868	0.807	0.424	0.704	Yes
REDBRIDGE	F86057	334	0.064	0.707	0.662	0.578	0.772	Yes
REDBRIDGE	F86032	334	0.055	0.867	0.717	0.500	0.728	Yes
REDBRIDGE	F86657	320	0.066	0.839	0.868	0.519	0.739	No

Appendix Table 1 Diabetes Prevalence and Management 2010-11 Practices in Outer NE London

PCT Name	Practice Code	Diabetes Mellitus (Diabetes) Register (ages 17+)	Diabetes Mellitus (Diabetes) Prevalence	BP under 148/85 mm (DM12)	Cholesterol under 5mmol/l (DM17)	HbA1c 7 or less (DM23)	HbA1c 8 or less (DM24)	Performance worse than England lowest decile in any management indicator
WALTHAM FOREST	F86607	476	0.052	0.792	0.807	0.509	0.719	No
WALTHAM FOREST	Y01291	254	0.052	0.850	0.760	0.519	0.793	No
WALTHAM FOREST	F86627	662	0.057	0.789	0.783	0.535	0.749	No
WALTHAM FOREST	F86708	141	0.066	0.733	0.675	0.463	0.717	Yes
WALTHAM FOREST	F86044	261	0.079	0.746	0.820	0.521	0.724	No
WALTHAM FOREST	F86689	77	0.044	0.690	0.797	0.671	0.811	Yes
WALTHAM FOREST	F86086	229	0.065	0.848	0.727	0.541	0.689	Yes
WALTHAM FOREST	F86621	223	0.047	0.938	0.864	0.596	0.785	No
WALTHAM FOREST	F86006	293	0.063	0.743	0.735	0.422	0.639	Yes
WALTHAM FOREST	F86626	140	0.041	0.612	0.780	0.559	0.719	Yes
WALTHAM FOREST	F86699	167	0.106	0.796	0.684	0.428	0.581	Yes
WALTHAM FOREST	F86049	117	0.057	0.904	0.741	0.614	0.800	Yes
WALTHAM FOREST	F86696	263	0.076	0.821	0.815	0.627	0.856	No
WALTHAM FOREST	F86062	386	0.069	0.785	0.839	0.682	0.838	No
WALTHAM FOREST	F86712	159	0.069	0.872	0.847	0.549	0.812	No
WALTHAM FOREST	F86004	514	0.047	0.899	0.843	0.562	0.793	No
WALTHAM FOREST	F86666	342	0.058	0.879	0.881	0.750	0.856	No
WALTHAM FOREST	F86686	463	0.104	0.792	0.757	0.580	0.729	No
WALTHAM FOREST	F86045	147	0.075	0.789	0.779	0.518	0.624	Yes
WALTHAM FOREST	F86679	136	0.046	0.797	0.794	0.531	0.750	No
WALTHAM FOREST	F86700	181	0.065	0.746	0.784	0.533	0.750	No
WALTHAM FOREST	F86701	201	0.070	0.837	0.824	0.527	0.677	Yes
WALTHAM FOREST	F86625	295	0.059	0.810	0.836	0.730	0.854	No
WALTHAM FOREST	F86705	134	0.055	0.899	0.808	0.546	0.741	No
WALTHAM FOREST	F86664	247	0.040	0.738	0.742	0.656	0.814	Yes
WALTHAM FOREST	F86073	158	0.054	0.807	0.765	0.488	0.737	No
WALTHAM FOREST	F86074	550	0.056	0.887	0.795	0.495	0.730	No
WALTHAM FOREST	F86650	352	0.060	0.794	0.856	0.524	0.792	No
WALTHAM FOREST	Y02585	33	0.013	0.958	1.000	0.667	0.783	No
WALTHAM FOREST	F86030	374	0.080	0.854	0.851	0.547	0.788	No
WALTHAM FOREST	Y01839	254	0.075	0.875	0.838	0.514	0.732	No
WALTHAM FOREST	F86038	412	0.063	0.869	0.770	0.558	0.768	No
WALTHAM FOREST	F86058	408	0.049	0.827	0.828	0.513	0.763	No
WALTHAM FOREST	F86639	221	0.067	0.780	0.802	0.556	0.769	No
WALTHAM FOREST	F86036	572	0.050	0.901	0.873	0.553	0.778	No
WALTHAM FOREST	F86018	424	0.067	0.878	0.828	0.505	0.754	No
WALTHAM FOREST	F86001	372	0.061	0.800	0.772	0.496	0.710	No
WALTHAM FOREST	F86026	331	0.063	0.878	0.846	0.664	0.839	No
WALTHAM FOREST	F86088	265	0.084	0.833	0.886	0.500	0.735	No
WALTHAM FOREST	F86011	312	0.059	0.865	0.822	0.471	0.738	No
WALTHAM FOREST	F86638	294	0.087	0.859	0.836	0.540	0.772	No
WALTHAM FOREST	F86616	148	0.060	0.757	0.759	0.463	0.667	Yes
WALTHAM FOREST	F86005	295	0.053	0.902	0.885	0.662	0.865	No
WALTHAM FOREST	F86078	330	0.051	0.703	0.718	0.495	0.692	Yes
WALTHAM FOREST	Y00092	89	0.046	0.667	0.808	0.567	0.704	Yes
WALTHAM FOREST	F86644	451	0.055	0.684	0.794	0.522	0.734	Yes
WALTHAM FOREST	F86067	61	0.040	0.767	0.814	0.439	0.586	Yes

Appendix Table 2 Ward level diabetes deaths and prevalence

Ward	LA	Deaths 2008-10	Expctd deaths 3 yrs	SMR	Percent Prevalence Rate	Estimated Diabetes Patients
Abbey	Barking & Dag'm	1	1.5	65	6.8	610
Alibon	Barking & Dag'm	4	2.1	187	6.2	464
Becontree	Barking & Dag'm	3	2.5	121	6.8	609
Chadwell Heath	Barking & Dag'm	2	3.4	60	7.3	528
Eastbrook	Barking & Dag'm	5	3.1	161	5.7	452
Eastbury	Barking & Dag'm	1	2.4	41	6.4	535
Gascoigne	Barking & Dag'm	3	1.7	181	7.0	568
Goresbrook	Barking & Dag'm	2	2.5	79	6.1	497
Heath	Barking & Dag'm	4	2.9	137	6.4	477
Longbridge	Barking & Dag'm	4	2.6	153	6.0	474
Mayesbrook	Barking & Dag'm	3	2.2	134	6.8	499
Parsloes	Barking & Dag'm	0	2.3	0	6.4	443
River	Barking & Dag'm	5	2.2	226	6.1	474
Thames	Barking & Dag'm	1	1.8	56	6.6	491
Valence	Barking & Dag'm	0	2.3	0	6.8	460
Village	Barking & Dag'm	3	2.5	122	6.6	531
Whalebone	Barking & Dag'm	5	2.5	204	6.0	465
Brooklands	Havering	2	3.8	53	5.1	584
Cranham	Havering	2	5.8	35	4.5	470
Elm Park	Havering	5	4.6	108	5.6	564
Emerson Park	Havering	3	4.3	69	4.4	424
Gooshays	Havering	2	4.0	50	6.1	677
Hacton	Havering	2	4.8	42	5.1	524
Harold Wood	Havering	2	4.1	49	4.7	489
Havering Park	Havering	2	3.6	55	5.2	511
Heaton	Havering	5	4.1	122	5.7	551
Hylands	Havering	1	3.8	27	4.8	504
Mawneys	Havering	1	4.4	23	5.0	504
Pettits	Havering	2	4.7	43	4.5	470
Rainham and Wennington	Havering	8	3.7	214	5.6	562
Romford Town	Havering	2	3.9	51	5.0	622
St Andrew's	Havering	10	5.1	195	5.1	553
South Hornchurch	Havering	5	3.9	127	6.0	617
Squirrel's Heath	Havering	0	4.0	0	4.4	451
Upminster	Havering	5	5.4	93	4.5	494

Appendix Table 2 Ward level diabetes deaths and prevalence

Ward	LA	Deaths 2008-10	Expctd deaths 3 yrs	SMR	Percent Prevalence Rate	Estimated Diabetes Patients
Aldborough	Redbridge	4	3.6	110	7.7	837
Barkingside	Redbridge	1	3.6	28	7.1	683
Bridge	Redbridge	3	2.9	103	4.9	452
Chadwell	Redbridge	6	3.4	178	6.3	672
Church End	Redbridge	2	2.8	72	4.3	352
Clayhall	Redbridge	3	3.3	91	6.1	599
Clementswood	Redbridge	4	2.1	193	8.4	806
Cranbrook	Redbridge	7	3.1	226	7.2	743
Fairlop	Redbridge	2	3.1	64	6.5	630
Fullwell	Redbridge	2	4.0	50	6.8	683
Goodmayes	Redbridge	0	2.0	0	7.1	659
Hainault	Redbridge	3	3.7	81	6.6	641
Loxford	Redbridge	5	2.6	193	7.6	927
Mayfield	Redbridge	6	3.2	188	6.8	680
Monkhams	Redbridge	1	4.0	25	4.0	330
Newbury	Redbridge	3	2.8	106	8.1	939
Roding	Redbridge	2	2.3	87	5.1	443
Seven Kings	Redbridge	3	2.6	117	7.5	768
Snaresbrook	Redbridge	0	4.2	0	4.9	465
Valentines	Redbridge	1	2.2	45	8.5	917
Wanstead	Redbridge	3	3.3	92	5.7	565
Cann Hall	WalthamF	2	1.8	113	6.7	598
Cathall	WalthamF	5	1.6	313	6.7	578
Chapel End	WalthamF	6	2.1	281	5.7	514
Chingford Green	WalthamF	0	4.1	0	5.3	404
Endlebury	WalthamF	1	3.0	34	5.3	412
Forest	WalthamF	5	2.1	241	6.1	526
Grove Green	WalthamF	3	1.9	155	5.9	557
Hale End & Highams Pk	WalthamF	1	2.3	44	5.2	390
Hatch Lane	WalthamF	5	3.0	165	5.3	411
High Street	WalthamF	1	2.1	48	6.7	644
Higham Hill	WalthamF	3	1.8	166	7.2	615
Hoe Street	WalthamF	6	2.3	256	6.6	617
Larkswood	WalthamF	2	3.2	63	5.7	458
Lea Bridge	WalthamF	6	2.2	270	6.8	703
Leyton	WalthamF	3	1.8	166	6.8	678
Leytonstone	WalthamF	7	1.8	383	6.2	536
Markhouse	WalthamF	0	1.8	0	7.0	601
Valley	WalthamF	1	2.7	37	6.2	499
William Morris	WalthamF	1	1.9	54	6.5	569
Wood Street	WalthamF	3	2.4	123	6.3	570
Outer NE London		227	229.3	99	6.1	42820

Appendix Table 3 Diabetes Hospitalisations and Prevalence

PCT	Practice code	(1) Standard Hospital-isation Ratio	(2) Hospital Episodes (2 yrs)	(3) Prevalence (QOF 2010-11)	(4) Annual Episodes per 1000 patients	(5) Ratio of (4) to ONEL rate
BARKING-DAGM	F82001	283	57	206	138	3.7
BARKING-DAGM	F82003	546	30	209	72	1.9
BARKING-DAGM	F82004	223	72	441	82	2.2
BARKING-DAGM	F82005	61	11	220	25	0.7
BARKING-DAGM	F82012	161	44	351	63	1.7
BARKING-DAGM	F82015	159	28	206	68	1.8
BARKING-DAGM	F82017	99	30	431	35	0.9
BARKING-DAGM	F82018	111	40	656	30	0.8
BARKING-DAGM	F82019	115	21	393	27	0.7
BARKING-DAGM	F82023	438	35	213	82	2.2
BARKING-DAGM	F82025	110	17	176	48	1.3
BARKING-DAGM	F82027	101	9	144	31	0.8
BARKING-DAGM	F82031	443	30	238	63	1.7
BARKING-DAGM	F82034	234	23	156	74	2.0
BARKING-DAGM	F82038	85	16	268	30	0.8
BARKING-DAGM	F82040	279	24	131	92	2.4
BARKING-DAGM	F82042	279	53	256	104	2.8
BARKING-DAGM	F82051	77	23	406	28	0.8
BARKING-DAGM	F82052	87	8	129	31	0.8
BARKING-DAGM	F82604	134	16	181	44	1.2
BARKING-DAGM	F82612	115	17	291	29	0.8
BARKING-DAGM	F82621	155	16	103	78	2.1
BARKING-DAGM	F82625	187	28	328	43	1.1
BARKING-DAGM	F82629	144	9	76	59	1.6
BARKING-DAGM	F82634	95	10	117	43	1.1
BARKING-DAGM	F82642	268	34	221	77	2.0
BARKING-DAGM	F82645	115	9	95	47	1.3
BARKING-DAGM	F82647	266	29	295	49	1.3
BARKING-DAGM	F82650	154	21	260	40	1.1
BARKING-DAGM	F82660	120	28	422	33	0.9
BARKING-DAGM	F82661	299	29	143	101	2.7
BARKING-DAGM	F82665	418	15	234	32	0.9
BARKING-DAGM	F82668	200	19	151	63	1.7
BARKING-DAGM	F82676	75	11	250	22	0.6
BARKING-DAGM	F82677	260	43	216	100	2.6
BARKING-DAGM	F82678	37	3	129	12	0.3
BARKING-DAGM	F82679	183	28	175	80	2.1
BARKING-DAGM	F82680	68	11	177	31	0.8
BARKING-DAGM	F82686	229	19	112	85	2.3
BARKING-DAGM	F86040	209	21	135	78	2.1
BARKING-DAGM	Y01280	152	9	91	49	1.3
BARKING-DAGM	Y01719	28	3	108	14	0.4
BARKING-DAGM	Y01795	115	9	87	52	1.4
BARKING-DAGM	Y02575	66	6	57	53	1.4
BARKING-DAGM	Y02583	53	5	79	32	0.8

Appendix Table 3 Diabetes Hospitalisations and Prevalence

PCT	Practice code	(1) Standard Hospitalisation Ratio	(2) Hospital Episodes (2 yrs)	(3) Prevalence (QOF 2010-11)	(4) Annual Episodes per 1000 patients	(5) Ratio of (4) to ONEL rate
HAVERING	F82002	69	15	145	52	1.4
HAVERING	F82006	93	45	467	48	1.3
HAVERING	F82007	112	66	504	65	1.7
HAVERING	F82008	136	91	675	67	1.8
HAVERING	F82009	143	83	589	70	1.9
HAVERING	F82010	262	66	281	117	3.1
HAVERING	F82011	143	60	445	67	1.8
HAVERING	F82013	87	57	538	53	1.4
HAVERING	F82014	176	52	324	80	2.1
HAVERING	F82016	204	56	293	96	2.5
HAVERING	F82019	77	21	393	27	0.7
HAVERING	F82020	179	28	135	104	2.8
HAVERING	F82021	68	30	364	41	1.1
HAVERING	F82022	81	39	470	41	1.1
HAVERING	F82028	132	29	237	61	1.6
HAVERING	F82030	209	98	350	140	3.7
HAVERING	F82031	150	30	238	63	1.7
HAVERING	F82033	116	17	148	57	1.5
HAVERING	F82039	103	14	149	47	1.3
HAVERING	F82045	185	29	122	119	3.2
HAVERING	F82052	64	8	129	31	0.8
HAVERING	F82053	77	10	91	55	1.5
HAVERING	F82055	67	11	151	36	1.0
HAVERING	F82607	143	17	104	82	2.2
HAVERING	F82608	203	18	67	134	3.6
HAVERING	F82609	127	25	202	62	1.6
HAVERING	F82610	115	14	133	53	1.4
HAVERING	F82614	85	9	127	35	0.9
HAVERING	F82618	211	19	111	86	2.3
HAVERING	F82619	230	21	91	115	3.1
HAVERING	F82624	87	13	147	44	1.2
HAVERING	F82627	120	21	221	48	1.3
HAVERING	F82630	142	26	221	59	1.6
HAVERING	F82638	127	21	143	73	2.0
HAVERING	F82639	151	16	99	81	2.2
HAVERING	F82641	109	9	89	51	1.3
HAVERING	F82643	46	4	72	28	0.7
HAVERING	F82646	192	46	281	82	2.2
HAVERING	F82648	202	22	132	83	2.2
HAVERING	F82649	167	37	242	76	2.0
HAVERING	F82653	56	7	81	43	1.2
HAVERING	F82657	150	15	89	84	2.2
HAVERING	F82663	148	18	104	87	2.3
HAVERING	F82666	140	17	130	65	1.7
HAVERING	F82670	151	11	72	76	2.0
HAVERING	F82671	191	20	118	85	2.3
HAVERING	F82674	80	14	157	45	1.2
HAVERING	F82675	129	26	169	77	2.0
HAVERING	F82744	157	17	135	63	1.7
HAVERING	Y00183	89	7	71	49	1.3
HAVERING	Y00312	183	27	160	84	2.2

Appendix Table 3 Diabetes Hospitalisations and Prevalence

PCT	Practice code	(1) Standard Hospitalisation Ratio	(2) Hospital Episodes (2 yrs)	(3) Prevalence (QOF 2010-11)	(4) Annual Episodes per 1000 patients	(5) Ratio of (4) to ONEL rate
REDBRIDGE	F86007	53	20	469	21	0.6
REDBRIDGE	F86008	67	15	419	18	0.5
REDBRIDGE	F86009	81	28	551	25	0.7
REDBRIDGE	F86010	52	28	744	19	0.5
REDBRIDGE	F86012	84	39	366	53	1.4
REDBRIDGE	F86013	18	4	167	12	0.3
REDBRIDGE	F86020	42	10	153	33	0.9
REDBRIDGE	F86022	125	54	828	33	0.9
REDBRIDGE	F86023	65	19	271	35	0.9
REDBRIDGE	F86025	36	12	568	11	0.3
REDBRIDGE	F86028	64	15	414	18	0.5
REDBRIDGE	F86032	20	6	334	9	0.2
REDBRIDGE	F86034	92	21	314	33	0.9
REDBRIDGE	F86042	51	7	317	11	0.3
REDBRIDGE	F86057	65	17	334	25	0.7
REDBRIDGE	F86060	50	18	765	12	0.3
REDBRIDGE	F86064	32	6	179	17	0.4
REDBRIDGE	F86066	60	16	221	36	1.0
REDBRIDGE	F86081	89	18	283	32	0.8
REDBRIDGE	F86082	159	18	258	35	0.9
REDBRIDGE	F86083	25	6	460	7	0.2
REDBRIDGE	F86084	95	12	179	34	0.9
REDBRIDGE	F86085	222	20	141	71	1.9
REDBRIDGE	F86087	142	31	407	38	1.0
REDBRIDGE	F86612	39	5	211	12	0.3
REDBRIDGE	F86624	23	3	166	9	0.2
REDBRIDGE	F86635	53	6	213	14	0.4
REDBRIDGE	F86637	99	16	254	31	0.8
REDBRIDGE	F86641	14	2	130	8	0.2
REDBRIDGE	F86642	119	14	270	26	0.7
REDBRIDGE	F86652	186	26	336	39	1.0
REDBRIDGE	F86655	30	3	139	11	0.3
REDBRIDGE	F86657	15	2	320	3	0.1
REDBRIDGE	F86658	0	0	148	0	0.0
REDBRIDGE	F86675	38	4	119	17	0.4
REDBRIDGE	F86680	55	4	99	20	0.5
REDBRIDGE	F86691	68	16	341	23	0.6
REDBRIDGE	F86692	154	17	279	30	0.8
REDBRIDGE	F86698	174	18	144	63	1.7
REDBRIDGE	F86702	74	8	175	23	0.6
REDBRIDGE	F86703	12	1	157	3	0.1
REDBRIDGE	F86704	72	5	89	28	0.7
REDBRIDGE	F86707	130	20	239	42	1.1
REDBRIDGE	F86731	36	5	156	16	0.4
REDBRIDGE	Y00090	39	11	551	10	0.3
REDBRIDGE	Y00155	102	16	257	31	0.8
REDBRIDGE	Y00918	76	12	379	16	0.4

Appendix Table 3 Diabetes Hospitalisations and Prevalence by GP Practice

PCT	Practice code	(1) Standard Hospitalisation Ratio	(2) Hospital Episodes (2 yrs)	(3) Prevalence (QOF 2010-11)	(4) Annual Episodes per 1000 patients	(5) Ratio of (4) to ONEL rate
WALTHAM FOREST	F86001	57	15	372	20	0.5
WALTHAM FOREST	F86004	59	34	514	33	0.9
WALTHAM FOREST	F86005	61	14	295	24	0.6
WALTHAM FOREST	F86006	51	10	293	17	0.5
WALTHAM FOREST	F86011	93	22	312	35	0.9
WALTHAM FOREST	F86018	32	10	424	12	0.3
WALTHAM FOREST	F86026	45	11	331	17	0.4
WALTHAM FOREST	F86030	72	13	374	17	0.5
WALTHAM FOREST	F86036	54	22	572	19	0.5
WALTHAM FOREST	F86038	111	25	412	30	0.8
WALTHAM FOREST	F86044	59	9	261	17	0.5
WALTHAM FOREST	F86045	13	1	147	3	0.1
WALTHAM FOREST	F86049	71	6	117	26	0.7
WALTHAM FOREST	F86058	68	18	408	22	0.6
WALTHAM FOREST	F86062	37	9	386	12	0.3
WALTHAM FOREST	F86067	37	3	61	25	0.7
WALTHAM FOREST	F86073	30	4	158	13	0.3
WALTHAM FOREST	F86074	63	21	550	19	0.5
WALTHAM FOREST	F86078	35	8	330	12	0.3
WALTHAM FOREST	F86086	39	5	229	11	0.3
WALTHAM FOREST	F86088	43	7	265	13	0.4
WALTHAM FOREST	F86607	48	15	476	16	0.4
WALTHAM FOREST	F86616	29	4	148	14	0.4
WALTHAM FOREST	F86621	47	9	223	20	0.5
WALTHAM FOREST	F86625	68	14	295	24	0.6
WALTHAM FOREST	F86626	78	9	140	32	0.9
WALTHAM FOREST	F86627	35	20	662	15	0.4
WALTHAM FOREST	F86638	67	11	294	19	0.5
WALTHAM FOREST	F86639	70	9	221	20	0.5
WALTHAM FOREST	F86644	38	12	451	13	0.4
WALTHAM FOREST	F86650	30	8	352	11	0.3
WALTHAM FOREST	F86664	41	12	247	24	0.6
WALTHAM FOREST	F86666	58	12	342	18	0.5
WALTHAM FOREST	F86679	36	4	136	15	0.4
WALTHAM FOREST	F86686	33	5	463	5	0.1
WALTHAM FOREST	F86689	82	6	77	39	1.0
WALTHAM FOREST	F86696	47	6	263	11	0.3
WALTHAM FOREST	F86699	0	0	167	0	0.0
WALTHAM FOREST	F86700	24	4	181	11	0.3
WALTHAM FOREST	F86701	82	9	201	22	0.6
WALTHAM FOREST	F86705	68	6	134	22	0.6
WALTHAM FOREST	F86708	11	1	141	4	0.1
WALTHAM FOREST	F86712	189	16	159	50	1.3
WALTHAM FOREST	Y00092	28	2	89	11	0.3
WALTHAM FOREST	Y01291	41	10	254	20	0.5
WALTHAM FOREST	Y01839	66	10	254	20	0.5
ONEL		100	3626	48264	37.6	

Appendix Table 4 Diabetes Hospitalisations and Prevalence by Electoral Ward

Code	Ward Name	Hospital Episodes (2 yrs)	Number of Diabetes Patients	Standard Hospitalisation Ratio	Annual Episodes per 1000 Patients
ABFX	Abbey	44	610	118	36
ABFY	Alibon	83	464	214	89
ABFZ	Becontree	76	609	172	62
ABGA	Chadwell Heath	45	528	108	43
ABGB	Eastbrook	69	452	151	76
ABGC	Eastbury	70	535	164	65
ABGD	Gascoigne	84	568	228	74
ABGE	Goresbrook	51	497	121	51
ABGF	Heath	66	477	162	69
ABGG	Longbridge	33	474	77	35
ABGH	Mayesbrook	62	499	161	62
ABGJ	Parsloes	69	443	187	78
ABGK	River	51	474	127	54
ABGL	Thames	57	491	167	58
ABGM	Valence	83	460	226	90
ABGN	Village	51	531	122	48
ABGP	Whalebone	54	465	130	58
ARGC	Brooklands	96	584	158	82
ARGD	Cranham	40	470	59	43
ARGE	Elm Park	95	564	152	84
ARGF	Emerson Park	65	424	105	77
ARGG	Gooshays	135	677	220	100
ARGH	Hacton	104	524	162	99
ARGJ	Harold Wood	91	489	153	93
ARGK	Havering Park	120	511	205	118
ARGL	Heaton	71	551	125	64
ARGM	Hylands	44	504	71	44
ARGN	Mawneys	90	504	147	89
ARGP	Pettits	47	470	71	50
ARGQ	Rainham-Wennington	98	562	164	87
ARGR	Romford Town	85	622	133	68
ARGS	St Andrew's	79	553	118	71
ARGT	South Hornchurch	93	617	153	75
ARGU	Squirrel's Heath	48	451	81	53
ARGW	Upminster	68	494	98	69

Appendix Table 4 Diabetes Hospitalisations and Prevalence by Electoral Ward

Code	Ward Name	Hospital Episodes (2 yrs)	Number of Diabetes Patients	Standard Hospitalisation Ratio	Annual Episodes per 1000 Patients
BCFY	Aldborough	54	837	94	32
BCFZ	Barkingside	22	683	41	16
BCGA	Bridge	22	452	44	24
BCGB	Chadwell	39	672	71	29
BCGC	Church End	14	352	32	20
BCGD	Clayhall	23	599	41	19
BCGE	Clementswood	73	806	164	45
BCGF	Cranbrook	52	743	97	35
BCGG	Fairlop	43	630	80	34
BCGH	Fullwell	22	683	37	16
BCGJ	Goodmayes	49	659	111	37
BCGK	Hainault	32	641	59	25
BCGL	Loxford	48	927	88	26
BCGM	Mayfield	43	680	79	32
BCGN	Monkhams	12	330	23	18
BCGP	Newbury	44	939	75	23
BCGQ	Roding	16	443	36	18
BCGR	Seven Kings	36	768	71	23
BCGS	Snaresbrook	14	465	27	15
BCGT	Valentines	64	917	133	35
BCGU	Wanstead	26	565	47	23
BHFX	Cann Hall	23	598	56	19
BHFY	Cathall	27	578	70	23
BHFZ	Chapel End	17	514	39	17
BHGA	Chingford Green	17	404	35	21
BHGB	Endlebury	18	412	38	22
BHGC	Forest	25	526	60	24
BHGD	Grove Green	37	557	90	33
BHGE	Hale End- Highams Pk	19	390	46	24
BHGF	Hatch Lane	54	411	119	66
BHGG	High Street	18	644	43	14
BHGH	Higham Hill	30	615	73	24
BHGJ	Hoe Street	19	617	45	15
BHGK	Larkswood	21	458	45	23
BHGL	Lea Bridge	36	703	76	26
BHGM	Leyton	17	678	38	13
BHGN	Leytonstone	27	536	69	25
BHGP	Markhouse	31	601	78	26
BHQQ	Valley	20	499	44	20
BHGR	William Morris	12	569	30	11
BHGS	Wood Street	26	570	58	23

Figure 1 Years of Life Lost due to early Diabetes Mortality

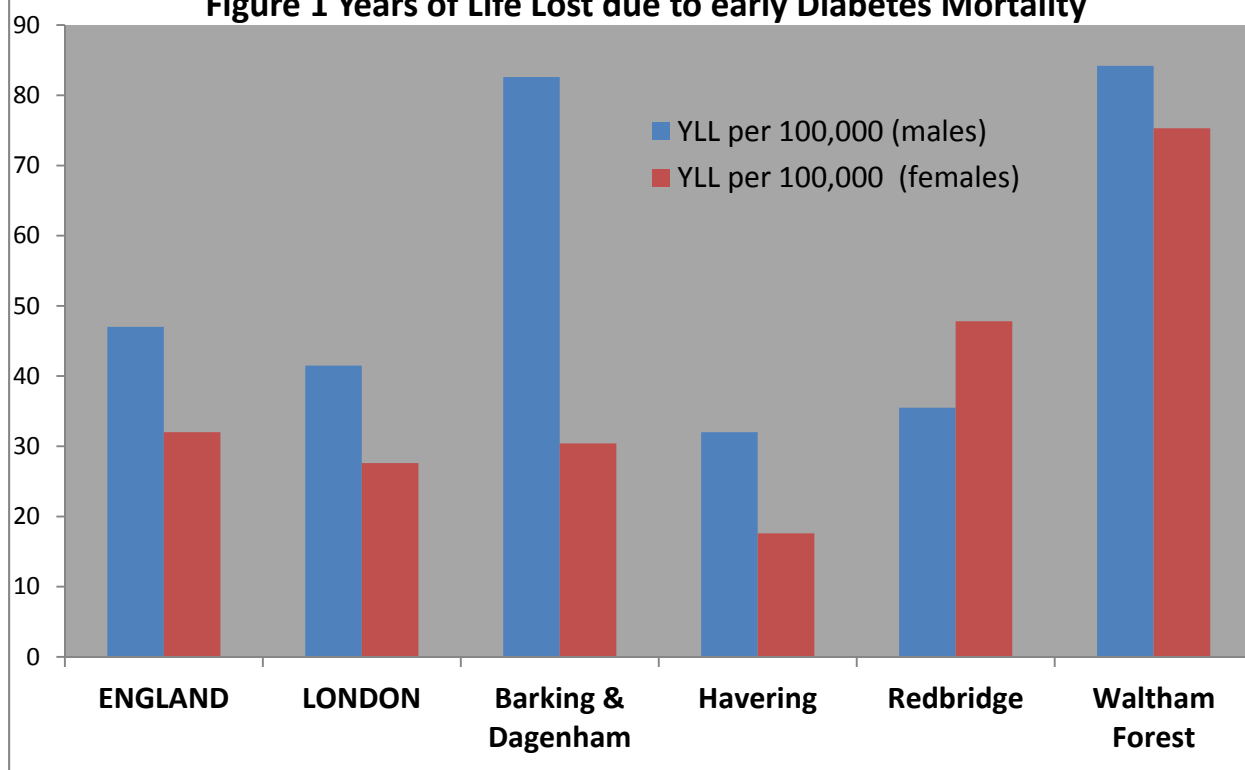


Figure 2 Diabetes Program Budget Spend per Registered Patient, 2009-10

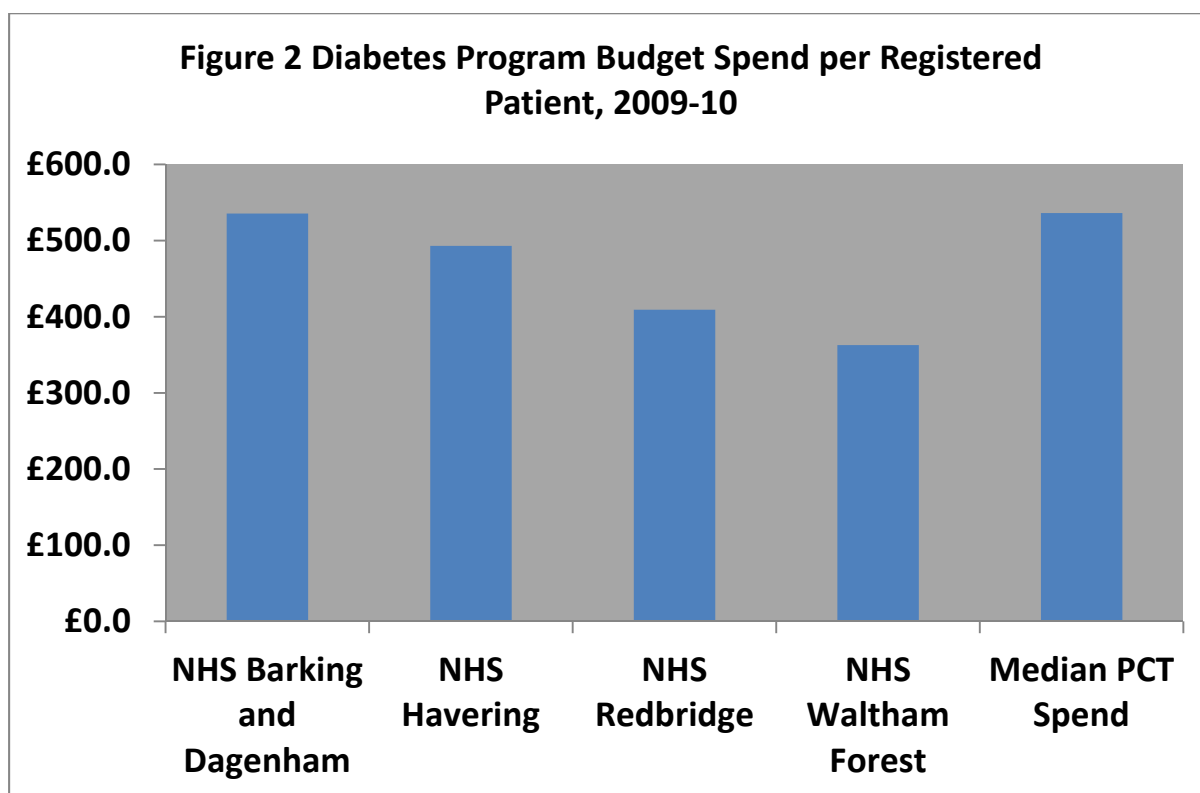


Figure 3 Emergency admissions: diabetic ketoacidosis & coma, 2009/10

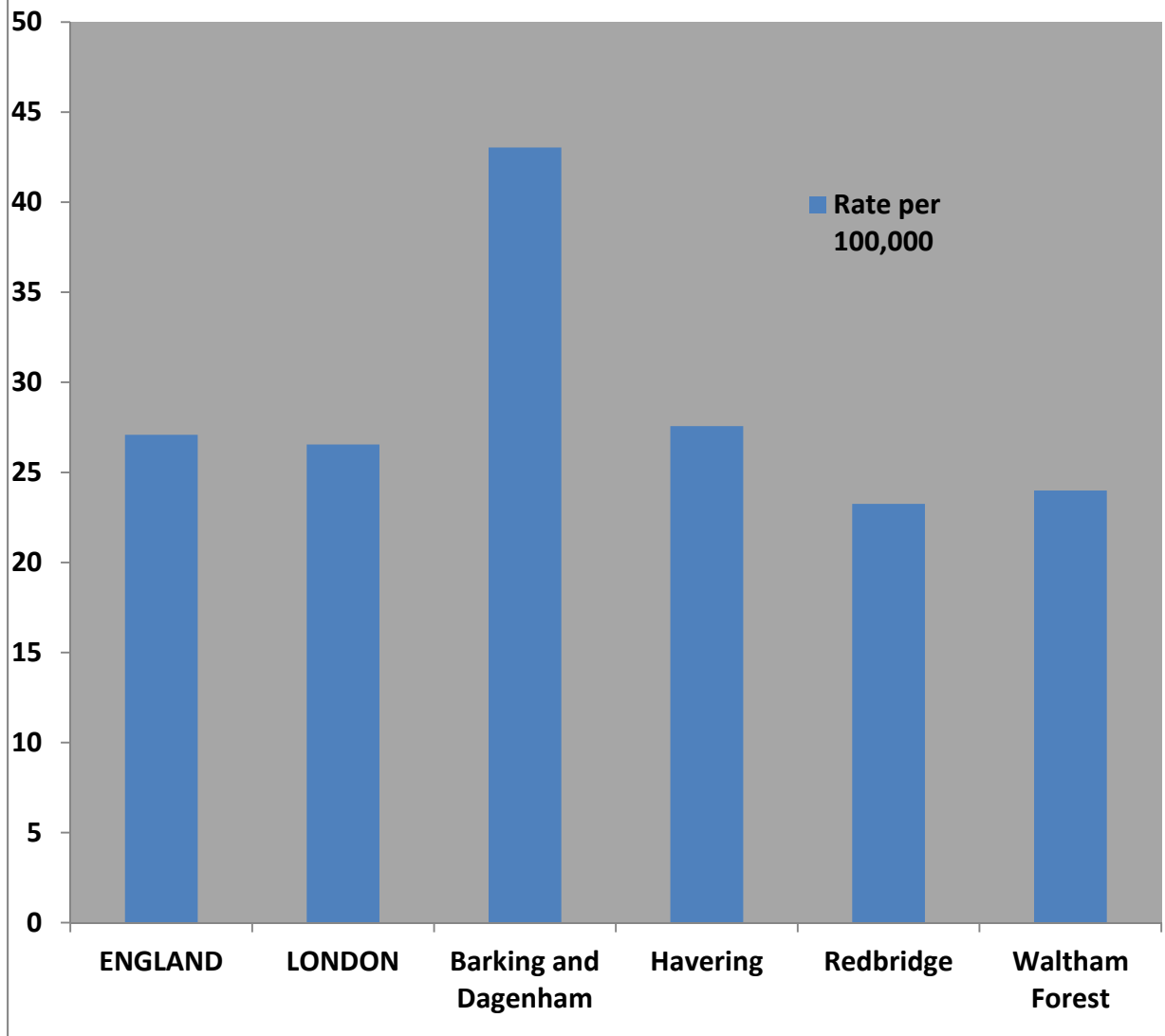


Figure 4 Ratios of Annual Diabetes Hospital Episodes per 1000 Diabetes Patients, 2009-10 and 2010-11, Barking & Dagenham Practices

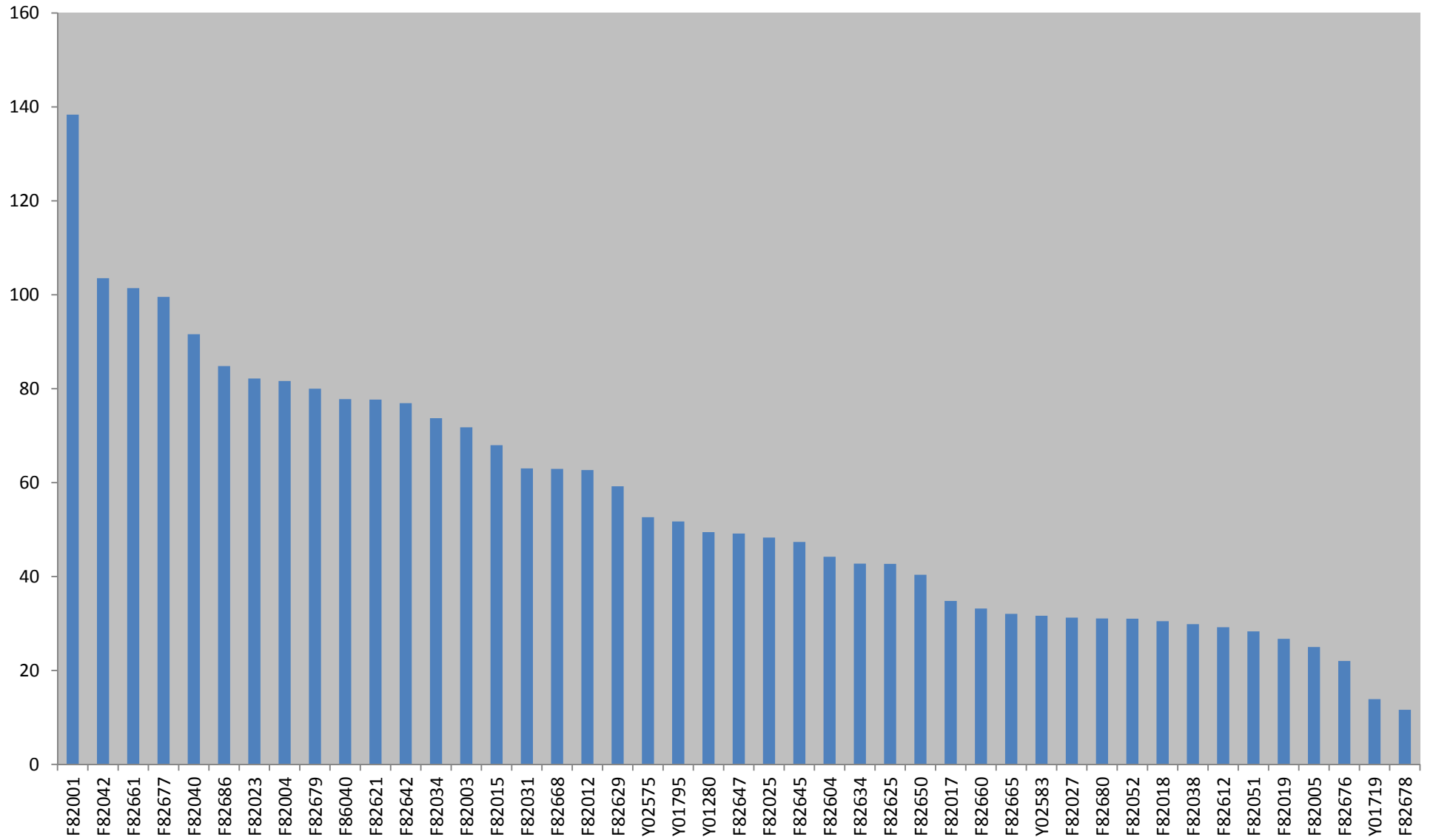


Figure 5 Ratios of Annual Diabetes Hospital Episodes per 1000 Diabetes Patients, 2009-10 and 2010-11, Havering Practices

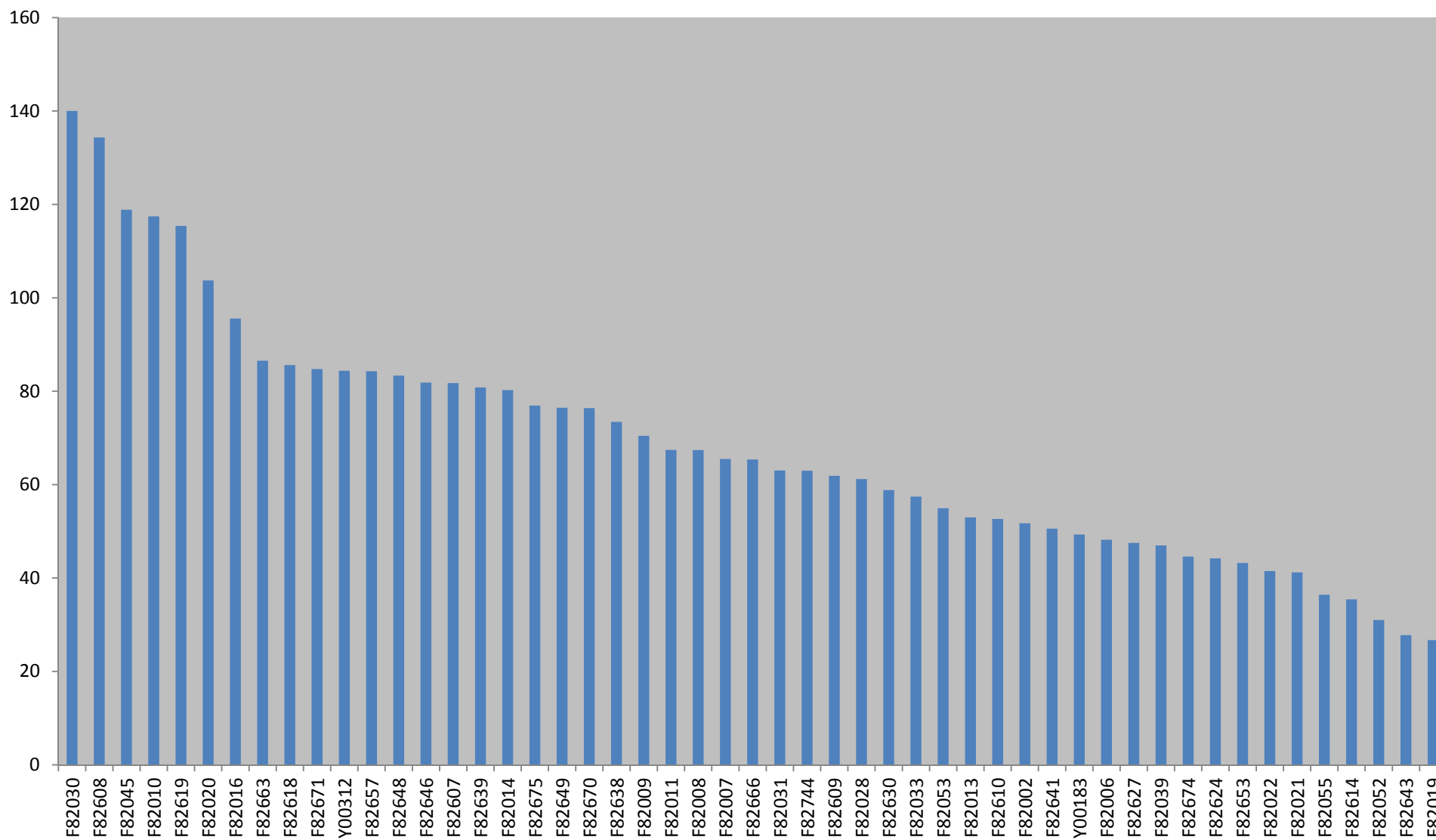


Figure 6 Hospital Episodes per 1000 Patients, Barking & Dagenham wards

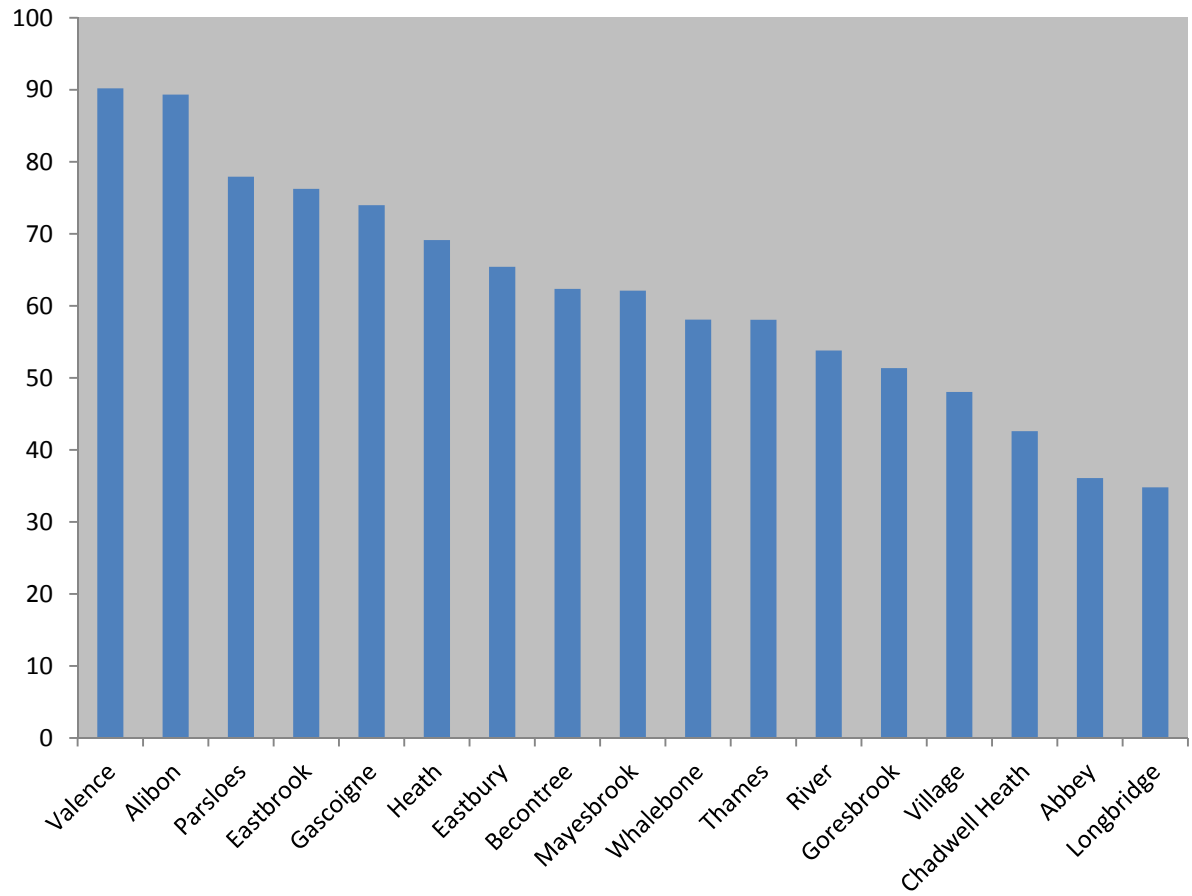


Figure 7 Hospital Episodes per 1000 Patients, Havering wards

