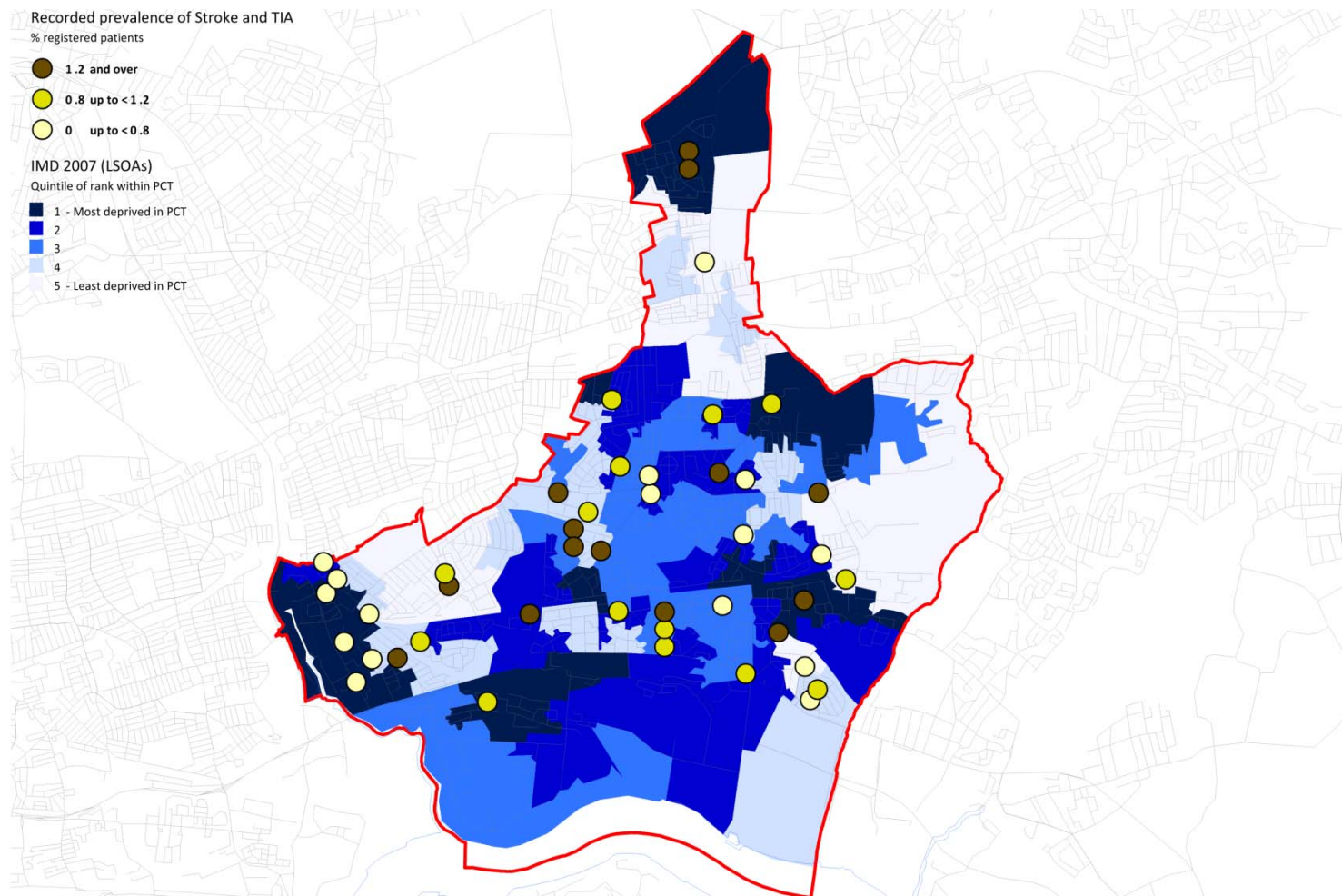


# BARKING AND DAGENHAM

## Stroke Pathway Profile 2010

The profile brings together a wide range of information and analysis related to the stroke pathway in one reference document. In doing so it aims to provide a better understanding of the quality of stroke care in the local area enabling PCTs to support GPs to commission on the basis of need. Profiles should be interpreted in the context of local demography. For further information please refer to our Health Needs Assessment Toolkit or your Health Profile at <http://hna.csl.nhs.uk/JSNA.aspx> [www.healthprofiles.info](http://www.healthprofiles.info)



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This map presents the prevalence of stroke and transient ischaemic attack (TIA) at a general practice level alongside the level of socio-economic deprivation (according to the Index of Multiple Deprivation 2007) for small geographical areas (Lower Super Output Areas). It should be noted that in addition to level of deprivation, stroke prevalence may be related to other factors including age structure of the practice population.

### Key Points:

- Hospital stroke admission rates for people in Barking and Dagenham under the age of 75 years are significantly higher than the national average; residents in Barking and Dagenham are four times as likely as residents in the PCT with the lowest admission rate to be admitted to hospital for a stroke before the age of 75 years
- Once admitted for a stroke, patients from Barking and Dagenham spend significantly longer in hospital than other patients in England, over three days longer than the London average
- The high admission rate is coupled with a high number of early deaths from stroke; Barking and Dagenham residents are nearly three times as likely as people living in the London PCT with the lowest stroke death rate to die from a stroke before the age of 75 years
- Smoking and obesity are risk factors for stroke. The high admission rate, hospital length of stay and early death rate may be related to the high levels of smoking and obesity in this PCT
- Barking and Dagenham patients who survive a stroke receive an above average standard of primary care despite below average levels of primary care spend on cerebrovascular disease.

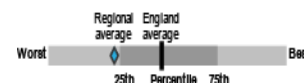
# STROKE PATHWAY SUMMARY

The spine chart below shows how stroke data for this PCT compares with London and the rest of England. This PCT's results for each indicator are displayed as a circle. The average rate for England is shown by the red line in the centre of the chart. The range of results for all PCTs in England is shown as a grey bar. A red circle means that data for this PCT is significantly worse than the England average. A green circle shows that data for this PCT is significantly better than the England average; however, this may still indicate an important public health problem.

### Key:

- Significantly better than England average
- Not significantly different from England average
- Significantly worse than England average
- No significance can be calculated

### England Key:



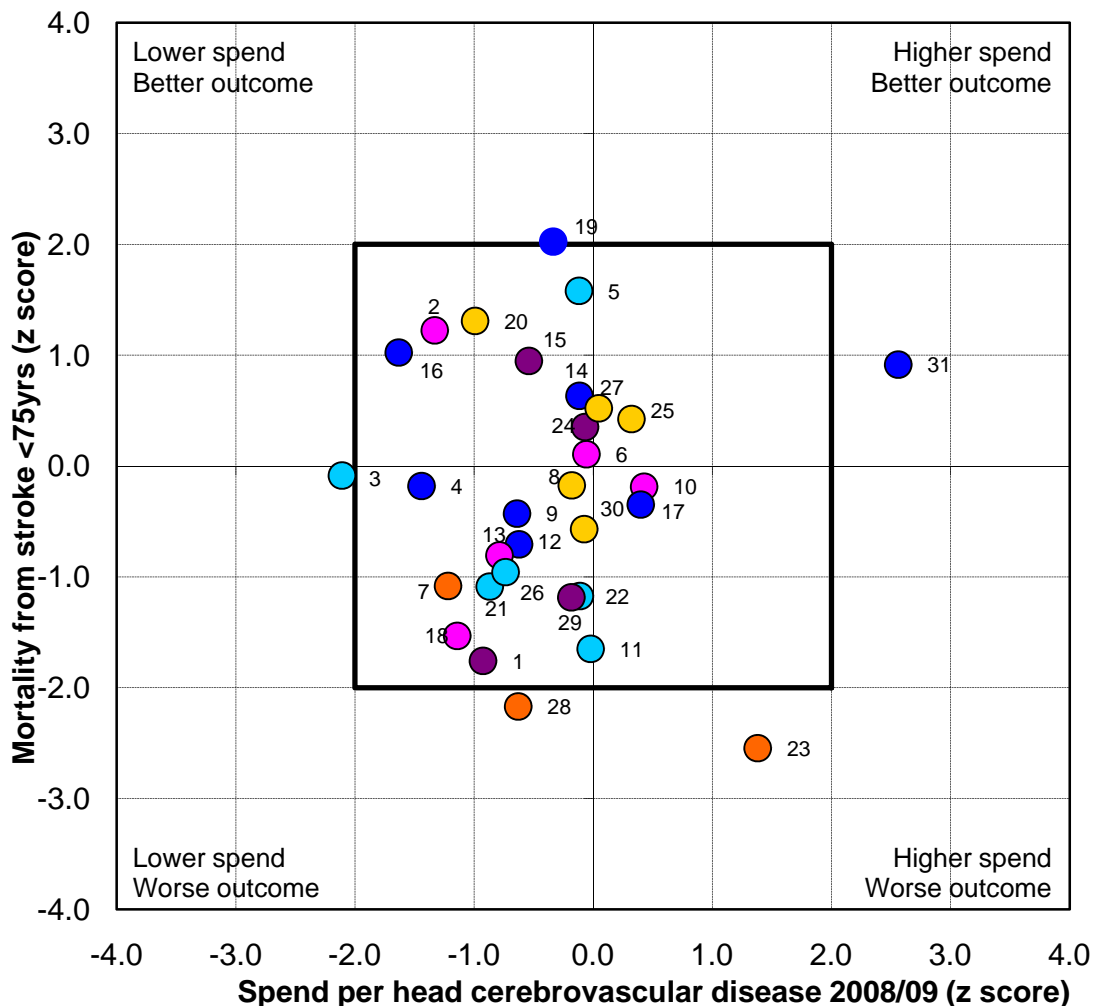
Domain	Indicator	Local Number	Local Value	Eng Avg	Eng Worst	England Range	Eng Best
Risk Factors	1 Hypertension prevalence, modelled	35,189	27.8	30.5	37.4		21.7
	2 Hypertension prevalence, recorded	22,446	12.0	13.4	16.7		8.0
	3 Atrial Fibrillation prevalence, recorded	1,423	0.8	1.4	2.3		0.4
	4 Adults who smoke	n/a	29.0	22.2	35.2		10.2
	5 Binge drinking adults	n/a	17.0	20.1	33.2		4.6
	6 Obese adults	n/a	32.2	24.2	32.8		13.2
Primary Care	7 Stroke/TIA prevalence, modelled	2,734	2.2	2.5	3.7		1.4
	8 Stroke/TIA prevalence, recorded	1,746	0.9	1.7	2.4		0.7
	9 Blood pressure recorded in last 15months	1,676	97.7	96.8	94.8		98.2
	10 Blood pressure reading 150/90 mmHg or less	1,539	91.0	88.1	83.4		93.9
	11 Cholesterol recorded in last 15 months	1,554	92.5	91.4	85.9		94.2
	12 Cholesterol reading 5 nmol/L or less	1,241	77.6	77.3	70.4		83.9
	13 Immunisation for influenza	1,293	89.4	89.0	83.0		92.5
	14 Anti-platelet / anti-coagulant therapy	1,027	96.2	94.1	92.2		96.2
	15 New patients referred for further investigation	291	93.9	90.2	82.8		97.0
Secondary Care	16 Emergency hospital admissions for stroke all ages	168	85.3	76.7	127.3		25.9
	17 Emergency hospital admissions for stroke age <75yrs	79	57.1	43.7	80.3		13.3
	18 Emergency hospital readmissions within 28 days of stroke	11	8.5	10.8	23.7		5.1
	19 Length of inpatient stay	178	21.5	17.1	26.6		8.8
	20 Stroke admissions who spent 90% of time on stroke unit	98	83.8	60.2	23.3		97.1
	21 Patients admitted for TIA who spent 90% of time on stroke unit	19	79.2	51.2	1.1		100.0
Mortality	22 Mortality from stroke all ages	345	48.6	47.3	63.1		23.7
	23 Mortality from stroke age <75yrs	89	21.1	13.7	25.6		8.4
	24 Years of life lost due to mortality from stroke	87	27.0	16.5	35.8		8.6
	25 Death in 30 days of emergency stroke admission	41	23,099	22,746	31,378		11,664
	Spend	26 Overall spend on cerebrovascular disease	2,661,000	13.5	19.3	41.9	
27 Primary care spend on cerebrovascular disease		247,000	1.2	2.7	0.2		33.3
28 Secondary care spend on cerebrovascular disease		2,414,000	12.2	16.9	40.4		1.1

1% aged 16yrs+ 2010 (ERPHO). 2 % registered GP patients on hypertension register 2009/10 (QOF). 3 % registered GP patients on arterial fibrillation register 2009/10 (QOF). 4-6 % adults, modelled estimate using Health Survey for England 2006-2008 (APHO Health Profiles). 7 % aged 16yrs+ 2010 (ERPHO). 8-15 % of registered GP patients on stroke register 2009/10 (QOF). 16-17 Directly age standardised rate per 100,000 European Standard population for hospital admission 2007/08 (HES). 18 Indirectly age standardised % of hospital discharges 2007/08 (NCHOD). 19 Total number and average number of days spent in hospital after stroke 2008/09 (HES). 20 % of patients admitted for stroke Q2-Q4 2009/10 (DH). 21 % of patients admitted for transient ischaemic attack Q2-Q4 2009/10 (DH). 22 Directly age-standardised rate per 100,000 European Standard population 2006-2008 (NCHOD). 23-24 Directly age-standardised rate per 100,000 European Standard population <75yrs 2006-2008 (NCHOD). 25 Indirectly age and sex standardised rate per 100,000 population 2007/08 (NCHOD). 26-28 £ per weighted head of population 2008/09 (DH).

## SPEND AND OUTCOME

Standardised scores were calculated for each PCT for outcome (premature stroke mortality) and spend data (primary and secondary spend per head on cerebrovascular disease). A z score measures the distance of a value from the mean in units of standard deviation. A positive z score indicates that the value is either higher spend or better outcome than the national average whereas a negative z score indicates lower spend or worse outcome than the national average. A z score below -2 or above +2 indicates that the value is statistically significantly different from the national average (at 95% confidence level). The graph presents an overall picture of spend and mortality at a local level and does not, therefore, imply a causal relationship.

### Quadrant analysis of cerebrovascular disease spend (2008/09) and premature mortality from stroke (2006-2008)



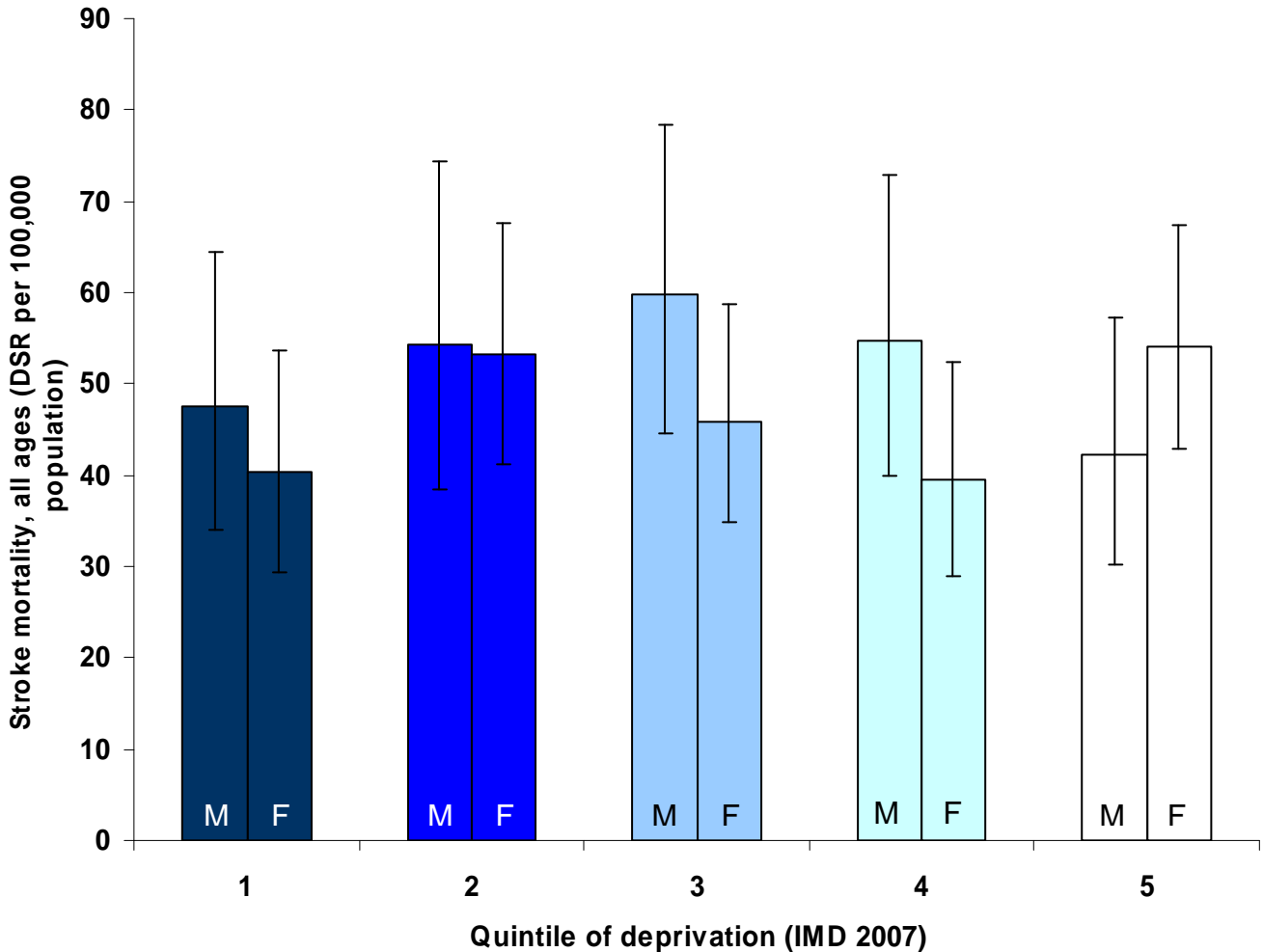
<span style="color: orange;">●</span>	Inner North East London
<span style="color: magenta;">●</span>	North Central London
<span style="color: blue;">●</span>	North West London
<span style="color: purple;">●</span>	Outer North East London
<span style="color: cyan;">●</span>	South East London
<span style="color: yellow;">●</span>	South West London
—	2 Standard deviations

1	Barking and Dagenham PCT	17	Hounslow PCT
2	Barnet PCT	18	Islington PCT
3	Bexley Care Trust	19	Kensington and Chelsea PCT
4	Brent Teaching PCT	20	Kingston PCT
5	Bromley PCT	21	Lambeth PCT
6	Camden PCT	22	Lewisham PCT
7	City and Hackney Teaching PCT	23	Newham PCT
8	Croydon PCT	24	Redbridge PCT
9	Ealing PCT	25	Richmond and Twickenham PCT
10	Enfield PCT	26	Southwark PCT
11	Greenwich Teaching PCT	27	Sutton and Merton PCT
12	Hammersmith and Fulham PCT	28	Tower Hamlets PCT
13	Haringey Teaching PCT	29	Waltham Forest PCT
14	Harrow PCT	30	Wandsworth Teaching PCT
15	Havering PCT	31	Westminster PCT
16	Hillingdon PCT		

Sources: Hospital Episode Statistics; Compendium of Clinical and Health Outcomes, Clinical Health Outcomes Knowledge Base (NCHOD); Department of Health  
 Analysis undertaken by PCT Intelligence Team, Commissioning Support for London

The chart below displays differences in stroke mortality based on local levels of deprivation. Small areas within each PCT are divided into quintiles according to the level of deprivation defined by the Index of Multiple Deprivation 2007. The darkest coloured bars indicate deaths from stroke in the most deprived areas, while the lightest coloured bars indicate stroke deaths in the least deprived areas. The locations of these areas are displayed on the map on page 1.

## Mortality from stroke (2006-2008) and level of deprivation



Evidence suggests that gender differences in stroke exist in some local areas. Differences between males and females have previously been found for admission rates, deaths within 30 days of stroke and stroke mortality. The gender difference in stroke mortality is displayed above.

**95% confidence interval:** These indicate the level of certainty about each value on the graph. Longer/wide intervals mean more uncertainty

**M = Male      F = Female**

- Quintile 1: Most deprived
- Quintile 2
- Quintile 3
- Quintile 4
- Quintile 5: Least deprived

Sources: Hospital Episode Statistics; Compendium of Clinical and Health Outcomes, Clinical Health Outcomes Knowledge Base (NCHOD); Department for Communities and Local Government

Analysis undertaken by PCT Intelligence Team, Commissioning Support for London



Commissioning Support for London

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