

# Appendix D: Methodology of Standardised Acceptance Rates Calculation and Administrative Area Geography in the UK and the Analysis of Data by PCT Group for England

Chapter 3, on the incidence of new patients, includes an analysis of standardised acceptance rates in England, Wales, Scotland and Northern Ireland for areas covered by the Registry. The methodology used is described below. This methodology was also used in Chapter 4 and in this appendix for analyses of prevalent patients.

Prior to 2007 only some of the boundaries of Primary Care Trusts (PCTs) and Local Authorities (LAs) in England were similar. In 2007, the Office for National Statistics re-aligned many of the PCT boundaries in England with those of Local Authorities and in future reports, it will only be these PCTs that are reported on rather than the LAs. The data in Chapters 3, 4 and 11 of this Report used the LA boundaries from the 2001 census as stated by the ONS. Table 9 in this appendix used the new ONS PCT boundaries. In Northern Ireland, Scotland and Wales, the Health Authority boundaries align with the LAs.

## Patients

For acceptance rate analyses, all new cases recorded by the Registry as accepted on to RRT in each year were included. Each patient's postcode was matched to a 2001 Census output area. The analyses used the patient postcode rather than the GP postcode.

## Geography: Unitary Authorities, Counties and other areas

The final areas used were metropolitan counties, Greater London districts, Welsh areas, shire counties, unitary authorities, Scottish council areas and Northern Ireland district council areas – these different types of area are collectively called 'Local Authority areas' here.

Lists of areas as at 31/12/2000 were taken from [http://www.statistics.gov.uk/geography/geographic\\_area\\_listings/administrative.asp](http://www.statistics.gov.uk/geography/geographic_area_listings/administrative.asp)

## Administrative area geography in England and Wales

There are currently 46 unitary authorities in England, 34 shire counties and six metropolitan counties. Greater London forms a unique area type. Shire counties and metropolitan counties are subdivided into districts; unitary authorities are not subdivided. Greater London is subdivided into the London boroughs and the City of London.

### Unitary Authorities

Table D.1: Unitary Authorities

Code	UA name
00EB	Hartlepool
00EC	Middlesbrough
00EE	Redcar and Cleveland
00EF	Stockton-on-Tees
00EH	Darlington
00ET	Halton
00EU	Warrington
00EX	Blackburn with Darwen
00EY	Blackpool
00FA	Kingston upon Hull, City of
00FB	East Riding of Yorkshire
00FC	North East Lincolnshire
00FD	North Lincolnshire
00FF	York
00FK	Derby
00FN	Leicester
00FP	Rutland
00FY	Nottingham
00GA	Herefordshire, County of
00GF	Telford and Wrekin
00GL	Stoke-on-Trent
00HA	Bath and North East Somerset
00HB	Bristol, City of
00HC	North Somerset
00HD	South Gloucestershire
00HG	Plymouth
00HH	Torbay
00HN	Bournemouth
00HP	Poole
00HX	Swindon

**Table D.1: (continued)**

Code	UA name
00JA	Peterborough
00KA	Luton
00KF	Southend-on-Sea
00KG	Thurrock
00LC	Medway
00MA	Bracknell Forest
00MB	West Berkshire
00MC	Reading
00MD	Slough
00ME	Windsor and Maidenhead
00MF	Wokingham
00MG	Milton Keynes
00ML	Brighton and Hove
00MR	Portsmouth
00MS	Southampton
00MW	Isle of Wight

### Shire counties

There are 34 shire counties, subdivided into non-metropolitan districts.

**Table D.2: Shire counties**

Code	County name
09	Bedfordshire
11	Buckinghamshire
12	Cambridgeshire
13	Cheshire
15	Cornwall and Isles of Scilly
16	Cumbria
17	Derbyshire
18	Devon
19	Dorset
20	Durham
21	East Sussex
22	Essex
23	Gloucestershire
24	Hampshire
26	Hertfordshire
29	Kent
30	Lancashire
31	Leicestershire
32	Lincolnshire
33	Norfolk
34	Northamptonshire
35	Northumberland
36	North Yorkshire
37	Nottinghamshire
38	Oxfordshire
39	Shropshire

**Table D.2: (continued)**

Code	County name
40	Somerset
41	Staffordshire
42	Suffolk
43	Surrey
44	Warwickshire
45	West Sussex
46	Wiltshire
47	Worcestershire

### Metropolitan counties

There are six metropolitan counties, all in England and representing heavily built-up areas (other than Greater London). These are subdivided into metropolitan districts.

**Table D.3: Metropolitan counties**

Code	Area name	Metropolitan district
00BL	Greater Manchester	Bolton
00BM		Bury
00BN		Manchester
00BP		Oldham
00BQ		Rochdale
00BR		Salford
00BS	Cheshire & Merseyside	Stockport
00BT		Tameside
00BU		Trafford
00BW		Wigan
00BX		Knowsley
00BY		Liverpool
00CA	South Yorkshire	Sefton
00BZ		St. Helens
00CB		Wirral
00CC		Barnsley
00CE		Doncaster
00CF		Rotherham
00CG	Northumberland, Tyne and Wear	Sheffield
00CH		Gateshead
00CJ		Newcastle upon Tyne
00CK		North Tyneside
00CL		South Tyneside
00CM		Sunderland
00CN	West Midlands	Birmingham
00CQ		Coventry
00CR		Dudley
00CS		Sandwell
00CT		Solihull
00CU		Walsall
00CW	Wolverhampton	

Table D.3: (continued)

Code	Area name	Metropolitan district
00CX	West Yorkshire	Bradford
00CY		Calderdale
00CZ		Kirklees
00DA		Leeds
00DB		Wakefield

### Greater London

This is an administrative unit covering the London metropolis. There are 32 boroughs and also the City of London (a City Corporation).

Table D.4: London boroughs

Code	Area name	Borough name
00AA	Greater London	City of London
00AB		Barking and Dagenham
00AC		Barnet
00AD		Bexley
00AE		Brent
00AF		Bromley
00AG		Camden
00AH		Croydon
00AJ		Ealing
00AK		Enfield
00AL		Greenwich
00AM		Hackney
00AN		Hammersmith and Fulham
00AP		Haringey
00AQ		Harrow
00AR		Havering
00AS		Hillingdon
00AT		Hounslow
00AU		Islington
00AW		Kensington and Chelsea
00AX		Kingston upon Thames
00AY		Lambeth
00AZ		Lewisham
00BA		Merton
00BB		Newham
00BC		Redbridge
00BD		Richmond upon Thames
00BE		Southwark
00BF		Sutton
00BG		Tower Hamlets
00BH		Waltham Forest
00BJ		Wandsworth
00BK		Westminster

### Welsh Unitary Authorities

Table D.5: Welsh Unitary Authorities

Code	Area name	LA name
00PT	Bro Taf	Cardiff
00PH		Merthyr Tydfil
00PF		Rhondda; Cynon; Taff
00PD		The Vale of Glamorgan
00NQ	Dyfed Powys	Ceredigion
00NU		Carmarthenshire
00NS		Pembrokeshire
00NN		Powys
00PL	Gwent	Blaenau Gwent
00PK		Caerphilly
00PP		Monmouthshire
00PR		Newport
00PM		Torfaen
00PB	Morgannwg	Bridgend
00NZ		Neath, Port Talbot
00NX		Swansea
00NE	North Wales	Conwy
00NG		Denbighshire
00NJ		Flintshire
00NC		Gwynedd
00NA		Isle of Anglesey
00NL		Wrexham

### Scottish Council Areas

Table D.6: Scottish Council Areas

Code	Council name
00QA	Aberdeen City
00QB	Aberdeenshire
00QC	Angus
00QD	Argyll & Bute
00QE	Scottish Borders
00QF	Clackmannanshire
00QG	West Dunbartonshire
00QH	Dumfries & Galloway
00QJ	Dundee City
00QK	East Ayrshire
00QL	East Dunbartonshire
00QM	East Lothian
00QN	East Renfrewshire
00QP	Edinburgh, City of
00QQ	Falkirk
00QR	Fife
00QS	Glasgow City
00QT	Highland

**Table D.6: (continued)**

Code	Council name
00QU	Inverclyde
00QW	Midlothian
00QX	Moray
00QY	North Ayrshire
00QZ	North Lanarkshire
00RA	Orkney Islands
00RB	Perth & Kinross
00RC	Renfrewshire
00RD	Shetland Islands
00RE	South Ayrshire
00RF	South Lanarkshire
00RG	Stirling
00RH	West Lothian
00RJ	Eilean Siar

### ***Northern Ireland District Council Areas***

**Table D.7: Northern Ireland District Council Areas**

Code	Council name
95AA	Antrim
95BB	Ards
95CC	Armagh
95DD	Ballymena
95EE	Ballymoney
95FF	Banbridge
95GG	Belfast
95HH	Carrickfergus
95II	Castlereagh
95JJ	Coleraine
95KK	Cookstown
95LL	Craigavon
95MM	Derry
95NN	Down
95OO	Dungannon
95PP	Fermanagh
95QQ	Larne
95RR	Limavady
95SS	Lisburn
95TT	Magherafelt
95UU	Moyle
95VV	Newry and Mourne
95WW	Newtownabbey
95XX	North Down
95YY	Omagh
95ZZ	Strabane

### **Areas included in Registry 'covered' population**

All parts of Wales, Scotland and Northern Ireland are covered by the Registry but coverage is not yet complete for England. The Registry identified all areas in England which were estimated to have complete coverage and analysis was restricted to these areas.

In Table D.8 the right hand column indicates whether the area has been included in the analyses. This was dependant on whether the renal centre in the area was sending data to the Registry and that there were no overlapping areas with renal centres not yet connected to the Registry.

**Table D.8: Renal Registry coverage of England**

UK area	SHA	Name	Area type	Code	Covered in 2006?
North East	County Durham and Tees Valley	Darlington	Unitary Authority	00EH	✓
		Durham	Shire County	20	✓
		Hartlepool	Unitary Authority	00EB	✓
		Middlesbrough	Unitary Authority	00EC	✓
		Redcar and Cleveland	Unitary Authority	00EE	✓
		Stockton-on-Tees	Unitary Authority	00EF	✓
	Northumberland, Tyne & Wear	Gateshead	Metropolitan District	00CH	✓
		Newcastle upon Tyne	Metropolitan District	00CJ	✓
		North Tyneside	Metropolitan District	00CK	✓
		Northumberland	Shire County	35	✓
		South Tyneside	Metropolitan District	00CL	✓
Sunderland	Metropolitan District	00CM	✓		
North West	Cheshire & Merseyside	Cheshire	Shire County	13	×
		Halton	Unitary Authority	00ET	✓
		Knowsley	Metropolitan District	00BX	✓
		Liverpool	Metropolitan District	00BY	✓
		Sefton	Metropolitan District	00CA	✓
		St. Helens	Metropolitan District	00BZ	✓
		Warrington	Unitary Authority	00EU	✓
		Wirral	Metropolitan District	00CB	✓
	Cumbria and Lancashire	Blackburn with Darwen	Unitary Authority	00EX	✓
		Blackpool	Unitary Authority	00EY	✓
		Cumbria	Shire County	16	✓
		Lancashire	Shire County	30	✓
	Greater Manchester	Bolton	Metropolitan District	00BL	✓
		Bury	Metropolitan District	00BM	✓
		Manchester	Metropolitan District	00BN	×
		Oldham	Metropolitan District	00BP	✓
		Rochdale	Metropolitan District	00BQ	✓
		Salford	Metropolitan District	00BR	✓
		Stockport	Metropolitan District	00BS	×
		Tameside	Metropolitan District	00BT	×
		Trafford	Metropolitan District	00BU	×
	Wigan	Metropolitan District	00BW	✓	
	Yorkshire and the Humber	North and East Yorkshire and Northern Lincolnshire	East Riding of Yorkshire	Unitary Authority	00FB
Kingston upon Hull, City of			Unitary Authority	00FA	✓
North East Lincolnshire			Unitary Authority	00FC	✓
North Lincolnshire			Unitary Authority	00FD	✓
North Yorkshire			Shire County	36	✓
York			Unitary Authority	00FF	✓
South Yorkshire		Barnsley	Metropolitan District	00CC	✓
		Doncaster	Metropolitan District	00CE	✓
		Rotherham	Metropolitan District	00CF	✓
		Sheffield	Metropolitan District	00CG	✓
West Yorkshire		Bradford	Metropolitan District	00CX	✓
		Calderdale	Metropolitan District	00CY	✓
		Kirklees	Metropolitan District	00CZ	✓
		Leeds	Metropolitan District	00DA	✓
		Wakefield	Metropolitan District	00DB	✓

Table D.8: (continued)

UK area	SHA	Name	Area type	Code	Covered in 2006?
East Midlands	Leicestershire, Northamptonshire and Rutland	Leicester	Unitary Authority	00FN	✓
		Leicestershire	Shire County	31	✓
		Northamptonshire	Shire County	34	✓
		Rutland	Unitary Authority	00FP	✓
	Trent	Derby	Unitary Authority	00FK	✓
		Derbyshire	Shire County	17	✓
		Lincolnshire	Shire County	32	✓
		Nottingham	Unitary Authority	00FY	✓
Nottinghamshire		Shire County	37	✓	
West Midlands	Birmingham and the Black Country	Birmingham	Metropolitan District	00CN	✓
		Dudley	Metropolitan District	00CR	✓
		Sandwell	Metropolitan District	00CS	✓
		Solihull	Metropolitan District	00CT	✓
		Walsall	Metropolitan District	00CU	✓
		Wolverhampton	Metropolitan District	00CW	✓
	Coventry, Warwickshire, Herefordshire and Worcestershire	Coventry	Metropolitan District	00CQ	✓
		Herefordshire, County of	Unitary Authority	00GA	✓
		Warwickshire	Shire County	44	✓
		Worcestershire	Shire County	47	✓
	Shropshire and Staffordshire	Shropshire	Shire County	39	✓
		Staffordshire	Shire County	41	✗
		Stoke-on-Trent	Unitary Authority	00GL	✗
		Telford and Wrekin	Unitary Authority	00GF	✓
	East of England	Bedfordshire and Hertfordshire	Bedfordshire	Shire County	9
Hertfordshire			Shire County	26	✓
Luton			Unitary Authority	00KA	✓
Essex		Essex	Shire County	22	✓
		Southend-on-Sea	Unitary Authority	00KF	✓
		Thurrock	Unitary Authority	00KG	✓
Norfolk, Suffolk and Cambridgeshire		Cambridgeshire	Shire County	12	✓
		Norfolk	Shire County	33	✓
		Peterborough	Unitary Authority	00JA	✓
	Suffolk	Shire County	42	✓	
London	North Central London	Barnet	London Borough	00AC	✓
		Camden	London Borough	00AG	✓
		Enfield	London Borough	00AK	✓
		Haringey	London Borough	00AP	✓
		Islington	London Borough	00AU	✓
	North East London	Barking and Dagenham	London Borough	00AB	✓
		City of London	London Borough	00AA	✓
		Hackney	London Borough	00AM	✓
		Havering	London Borough	00AR	✓ <sup>a</sup>
		Newham	London Borough	00BB	✓
		Redbridge	London Borough	00BC	✓
		Tower Hamlets	London Borough	00BG	✓
		Waltham Forest	London Borough	00BH	✓

Table D.8: (continued)

UK area	SHA	Name	Area type	Code	Covered in 2006?
London (continued)	North West London	Brent	London Borough	00AE	✓
		Ealing	London Borough	00AJ	✓
		Hammersmith and Fulham	London Borough	00AN	✓
		Harrow	London Borough	00AQ	✓ <sup>a</sup>
		Hillingdon	London Borough	00AS	✓
		Hounslow	London Borough	00AT	✓
		Kensington and Chelsea	London Borough	00AW	✓
		Westminster	London Borough	00BK	✓
	South East London	Bexley	London Borough	00AD	✓
		Bromley	London Borough	00AF	✓
		Greenwich	London Borough	00AL	✓
		Lambeth	London Borough	00AY	✓
		Lewisham	London Borough	00AZ	✓
		Southwark	London Borough	00BE	✓
	South West London	Croydon	London Borough	00AH	✓
		Kingston upon Thames	London Borough	00AX	x
		Merton	London Borough	00BA	x
		Richmond upon Thames	London Borough	00BD	x
		Sutton	London Borough	00BF	✓ <sup>a</sup>
		Wandsworth	London Borough	00BJ	x
	South East	Hampshire and Isle of Wight	Hampshire	Shire County	24
Isle of Wight			Unitary Authority	00MW	✓
Portsmouth			Unitary Authority	00MR	✓
Southampton			Unitary Authority	00MS	✓
Kent and Medway		Kent	Shire County	29	x
		Medway	Unitary Authority	00LC	x
Surrey and Sussex		Brighton and Hove	Unitary Authority	00ML	✓
		East Sussex	Shire County	21	✓
		Surrey	Shire County	43	✓
		West Sussex	Shire County	45	✓
Thames Valley		Bracknell Forest	Unitary Authority	00MA	✓
		Buckinghamshire	Shire County	11	✓
		Milton Keynes	Unitary Authority	00MG	✓
		Oxfordshire	Shire County	38	✓
		Reading	Unitary Authority	00MC	✓
	Slough	Unitary Authority	00MD	✓	
	West Berkshire	Unitary Authority	00MB	✓	
	Windsor and Maidenhead	Unitary Authority	00ME	✓ <sup>a</sup>	
Wokingham	Unitary Authority	00MF	✓		
South West	Avon, Gloucestershire and Wiltshire	Bath and North East Somerset	Unitary Authority	00HA	✓
		Bristol, City of	Unitary Authority	00HB	✓
		Gloucestershire	Shire County	23	✓
		North Somerset	Unitary Authority	00HC	✓
		South Gloucestershire	Unitary Authority	00HD	✓
		Swindon	Unitary Authority	00HX	✓
		Wiltshire	Shire County	46	✓
		Dorset and Somerset	Bournemouth	Unitary Authority	00HN
	Dorset		Shire County	19	✓
	Poole		Unitary Authority	00HP	✓
	Somerset		Shire County	40	✓

Table D.8: (continued)

UK area	SHA	Name	Area type	Code	Covered in 2006?
South West (continued)	South West Peninsula	Cornwall and Isles of Scilly	Shire County	15	✓
		Devon	Shire County	18	✓
		Plymouth	Unitary Authority	00HG	✓
		Torbay	Unitary Authority	00HH	✓

<sup>a</sup> These areas were included in the analyses of all incident and prevalent patients (except for prevalent transplant patients under the care of London St Mary's as these were not electronically returned to the Registry)

## Population

The populations and age/gender breakdown for the LA areas were taken from Casweb. Casweb is a web interface to statistics and related information from the United Kingdom Census of Population, developed at Manchester University for academic use.

## Calculation of acceptance rates

### Crude rate

The crude rate of acceptance on to RRT was calculated for each LA area for each year

$$\frac{\text{observed\_cases}}{\text{population}} \times 1,000,000$$

per million population (pmp).

### Standardised acceptance rate ratio (SARR)

The age/gender standardised rate ratio of acceptance onto RRT was calculated for each LA area for each year:

$$\frac{\text{observed\_cases}}{\text{expected\_cases}}$$

Observed cases ( $O_i$ ) were calculated by summing all cases in all age and gender bands for each LA area. Expected cases ( $E_i$ ) for each LA area were calculated in the following way. For each age/gender band the observed acceptance rate over all LA areas (the standard population) was applied to the population of that LA in that age/gender band to determine the expected number of new cases. These expected numbers were summed over the age/gender bands to give an expected total number of cases in each LA area. 95% confidence limits were calculated for each area.

A ratio of 1 indicates that the LA area's acceptance rate was as expected if the age/gender rates

found in the total covered population applied to the LA area's population structure; a value above 1 indicates that the observed rate was greater than expected given the LA area's population structure, if the lower confidence limit was above 1 this was statistically significant at the 5% level. The converse applies to standardised rate ratios under one.

These rates **have not** been adjusted for ethnicity. Much higher rates are expected in populations with a high percentage of patients from South Asian and African-Caribbean backgrounds.

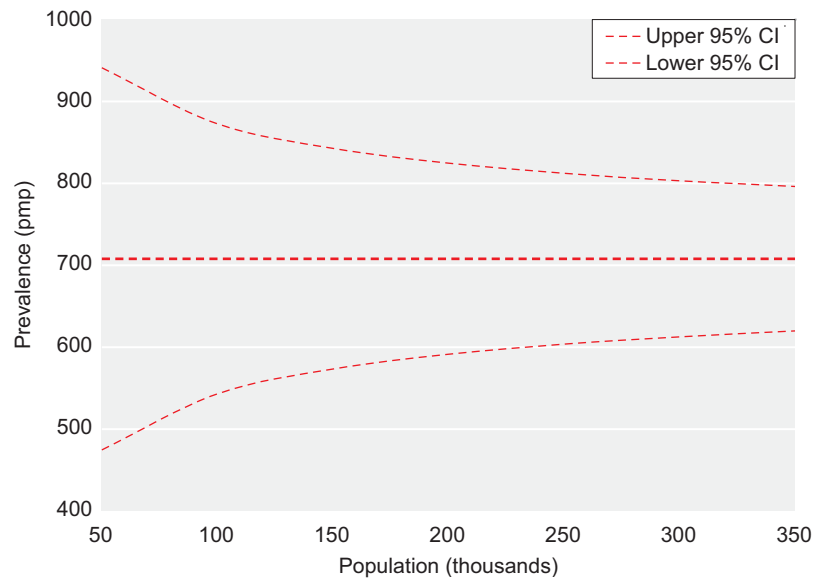
A similar process was followed to give the prevalence rates by LA (in Chapter 4) and by PCT (in this appendix).

## Analysis of prevalent patients by PCT

Table D.9 gives information on the observed and expected numbers of prevalent patients (in 2006), the ratio of these (with confidence limits) and the crude rates per million population, by PCT in England using the new boundaries. There are no PCTs in Scotland, Wales or Northern Ireland and the analyses of their data by LA/HA are to be found in Chapters 3 and 4.

Groups such as primary care trusts, which represent relatively small populations of 30,000 to 250,000, often wish to assess their performance. When assessing a relatively infrequent occurrence such as prevalence of RRT in such small populations there are wide confidence intervals for any observed frequency. Figure D.1 enables assessment of whether an observed prevalence is likely to be significantly different from the national average, for any size of population (x-axis) the upper and lower 95% confidence limits around the national average prevalence (dotted lines) can be read from the y-axis. Any





**Figure D.1: 95% confidence limits for prevalence of 708 pmp for population size 50,000–350,000**

observed prevalence for renal failure must be outside these limits for the given population to be statistically significantly different from the national average. Thus for a population of 50,000 the observed prevalence would have to be outside the limits of 475 per million population to 941 per million population. However for a population of 350,000 these limits are from 620 per million population to 796 per million population.

The crude prevalence rates **have not** been adjusted for age, sex or ethnicity. Much higher rates are expected in populations with a high percentage of patients from South Asian and African–Caribbean backgrounds. (The standardised rate ratios are adjusted for age and sex as detailed above).

Table D.9: Prevalent renal replacement therapy patients (2006) by PCT

UK area	SHA	Name	Code	Tot exp	Tot pop	Tot obs	O/E	L 95% CL	U 95% CL	Crude rate pmp
North East	County Durham & Tees Valley	County Durham	5ND	363	493,100	349	0.96	0.87	1.07	707.8
		Darlington	5J9	72	98,200	57	0.80	0.61	1.03	580.4
		Redcar and Cleveland	5QR	102	138,800	102	1.00	0.82	1.21	734.9
		Hartlepool	5D9	64	90,300	65	1.02	0.80	1.30	719.8
		Middlesbrough	5KM	94	139,900	95	1.01	0.83	1.24	679.1
		North Tees	5E1	128	185,400	120	0.93	0.78	1.12	647.2
	Northumberland, Tyne & Wear	Gateshead	5KF	141	191,400	131	0.93	0.78	1.10	684.4
		Newcastle	5D7	180	265,900	167	0.93	0.80	1.08	628.1
		North Tyneside	5D8	142	191,600	143	1.00	0.85	1.18	746.3
		Northumberland	TAC	237	308,200	197	0.83	0.72	0.96	639.2
		South Tyneside	5KG	112	152,200	104	0.93	0.77	1.13	683.3
Sunderland Teaching		5KL	201	283,200	184	0.92	0.79	1.06	649.7	
North West	Cheshire & Merseyside	Wirral	5NK	230	314,200	226	0.98	0.86	1.12	719.3
		Liverpool	5NL	296	441,800	331	1.12	1.00	1.24	749.2
		Central and Eastern Cheshire	5NP							
		Western Cheshire	5NN	174	232,500	155	0.89	0.76	1.04	666.7
		Knowsley	5J4	102	150,400	110	1.08	0.90	1.31	731.4
		Sefton	5NJ	210	281,800	179	0.85	0.74	0.99	635.2
		Halton and St Helens	5NM	208	295,100	200	0.96	0.84	1.11	677.7
		Warrington	5J2	135	191,600	109	0.81	0.67	0.98	568.9
	Cumbria & Lancashire	Blackburn with Darwen	5CC	87	139,400	103	1.18	0.97	1.43	738.9
		Blackpool	5HP	109	142,200	69	0.64	0.50	0.80	485.2
		North Lancashire	5NF	242	316,000	167	0.69	0.59	0.80	528.5
		Cumbria	5NE	375	487,800	289	0.77	0.69	0.86	592.5
		Central Lancashire	5NG	316	445,300	235	0.74	0.66	0.85	527.7
		East Lancashire	5NH	265	380,400	251	0.95	0.84	1.07	659.8
	Greater Manchester	Ashton, Leigh and Wigan	5HG	214	302,400	151	0.71	0.60	0.83	499.3
		Bolton	5HQ	180	262,000	146	0.81	0.69	0.95	557.3
		Bury	5JX	126	181,300	57	0.45	0.35	0.59	314.4
Manchester		5NT								
Heywood, Middleton and Rochdale		5NQ								
Oldham		5J5	147	218,200	86	0.59	0.47	0.72	394.1	
Salford		5F5	150	216,500	99	0.66	0.54	0.81	457.3	
Stockport		5F7								
Tameside and Glossop		5LH								
Trafford		5NR								
Yorkshire and the Humber	North & East Yorkshire & Northern Lincolnshire	East Riding of Yorkshire	5NW	248	318,400	198	0.80	0.70	0.92	621.9
		Hull	5NX	167	248,500	167	1.00	0.86	1.17	672.0
		North East Lincolnshire	5AN	113	158,700	113	1.00	0.83	1.20	712.0
		North Lincolnshire	5EF	112	150,300	107	0.96	0.79	1.15	711.9
		North Yorkshire and York	5NV	567	755,600	481	0.85	0.78	0.93	636.6
	South Yorkshire	Barnsley	5JE	158	218,700	173	1.09	0.94	1.27	791.0
		Doncaster	5N5	208	287,800	209	1.01	0.88	1.15	726.2
		Rotherham	5H8	178	249,500	193	1.08	0.94	1.25	773.5
		Sheffield	5N4	356	512,900	389	1.09	0.99	1.21	758.4
	West Yorkshire	Bradford and Airedale	5NY	308	473,900	369	1.20	1.08	1.33	778.6
		Calderdale	5J6	136	193,200	149	1.09	0.93	1.28	771.2
		Wakefield District	5N3	226	316,700	209	0.93	0.81	1.06	659.9
		Kirklees	5N2	266	390,600	324	1.22	1.09	1.36	829.5
		Leeds	5N1	483	716,400	504	1.04	0.96	1.14	703.5

Table D.9: (continued)

UK area	SHA	Name	Code	Tot exp	Tot pop	Tot obs	O/E	L 95% CL	U 95% CL	Crude rate pmp	
East Midlands	Leicestershire, Northamptonshire & Rutland Trent	Leicester City	5PC	176	283,300	305	1.74	1.55	1.94	1,076.6	
		Leicestershire County and Rutland	5PA	474	650,400	443	0.94	0.85	1.03	681.1	
		Northamptonshire	5PD	444	638,200	411	0.93	0.84	1.02	644.0	
		Nottinghamshire County	5N8	473	643,900	474	1.00	0.92	1.10	736.1	
		Bassetlaw	5ET	80	108,600	66	0.82	0.64	1.04	607.7	
		Derby City	5N7	158	232,100	180	1.14	0.98	1.32	775.5	
		Derbyshire County	5N6	527	706,300	452	0.86	0.78	0.94	640.0	
		Lincolnshire	5N9	509	658,700	412	0.81	0.73	0.89	625.5	
		Nottingham City	5EM	170	271,200	203	1.20	1.04	1.37	748.5	
West Midlands	Birmingham & The Black Country	Dudley	5PE	224	305,500	204	0.91	0.79	1.04	667.8	
		Birmingham East and North	5PG	258	391,700	398	1.55	1.40	1.70	1,016.1	
		Heart of Birmingham Teaching	5MX	146	262,900	353	2.41	2.17	2.67	1,342.7	
		South Birmingham	5M1	223	335,200	291	1.31	1.17	1.47	868.1	
		Sandwell	5PF	196	284,600	280	1.43	1.27	1.60	983.8	
		Solihull	TAM	147	200,200	153	1.04	0.89	1.22	764.2	
		Walsall Teaching	5M3	179	252,400	224	1.25	1.10	1.43	887.5	
		Wolverhampton City	5MV	167	239,200	214	1.28	1.12	1.46	894.6	
	Coventry, Warwickshire, Herefordshire & Worcestershire	Coventry Teaching	5MD	202	303,900	241	1.19	1.05	1.35	793.0	
		Herefordshire	5CN	137	176,000	115	0.84	0.70	1.01	653.4	
		Warwickshire	5PM	376	512,800	397	1.06	0.96	1.16	774.2	
		Worcestershire	5PL	405	545,800	337	0.83	0.75	0.93	617.4	
	Shropshire & Staffordshire	North Staffordshire	5PH								
		South Staffordshire	5PK								
Shropshire County		5M2	218	285,200	193	0.89	0.77	1.02	676.7		
Stoke on Trent		5PJ									
East of England	Bedfordshire & Herefordshire	Bedfordshire	5P2	268	384,600	247	0.92	0.81	1.04	642.2	
		Luton	5GC	116	185,400	157	1.35	1.15	1.58	846.8	
		West Hertfordshire	5P4	368	524,600	285	0.77	0.69	0.87	543.3	
		East and North Hertfordshire	5P3	359	512,700	319	0.89	0.80	0.99	622.2	
	Essex	Mid Essex	5PX	250	348,800	215	0.86	0.75	0.98	616.4	
		North East Essex	5PW	226	297,200	128	0.57	0.48	0.67	430.7	
		South East Essex	5P1	242	326,200	231	0.95	0.84	1.08	708.2	
		South West Essex	5PY	262	380,000	248	0.95	0.83	1.07	652.6	
		West Essex	5PV	195	271,100	152	0.78	0.67	0.91	560.7	
	Norfolk, Suffolk & Cambridgeshire	Cambridgeshire	5PP	393	559,500	368	0.94	0.85	1.04	657.7	
		Peterborough	5PN	106	157,800	114	1.08	0.90	1.29	722.4	
		Norfolk	5PQ	557	711,800	526	0.94	0.87	1.03	739.0	
		Suffolk	5PT	415	558,700	355	0.86	0.77	0.95	635.4	
		Great Yarmouth and Waveney	5PR	159	204,600	65	0.41	0.32	0.52	317.7	
	London	North Central London	Barnet	5A9	211	322,300	268	1.27	1.13	1.43	831.5
			Camden	5K7	126	207,200	144	1.15	0.97	1.35	695.0
Enfield			5C1	183	280,200	277	1.51	1.34	1.70	988.6	
Haringey Teaching			5C9	132	224,500	216	1.64	1.44	1.87	962.1	
Islington			5K8	108	180,200	158	1.46	1.25	1.71	876.8	
North East London		Barking and Dagenham	5C2	105	165,900	112	1.07	0.89	1.29	675.1	
		City and Hackney Teaching	5C3	123	216,300	176	1.43	1.23	1.66	813.7	
		Havering	5A4								
		Newham	5C5	135	251,800	227	1.68	1.47	1.91	901.5	
		Redbridge	5NA	159	242,000	202	1.27	1.11	1.46	834.7	
		Tower Hamlets	5C4	110	204,800	141	1.28	1.08	1.51	688.5	
		Waltham Forest	5NC	136	222,200	178	1.31	1.13	1.52	801.1	
		Barking and Dagenham	5C2	105	165,900	112	1.07	0.89	1.29	675.1	

Table D.9: (continued)

UK area	SHA	Name	Code	Tot exp	Tot pop	Tot obs	O/E	L 95% CL	U 95% CL	Crude rate pmp
London (continued)	North West London	Brent Teaching	5K5	169	269,600	234	1.38	1.22	1.57	868.0
		Ealing	5HX	193	307,700	314	1.62	1.45	1.81	1,020.5
		Hammersmith and Fulham	5H1	105	172,700	138	1.32	1.12	1.56	799.1
		Harrow	5K6							
		Hillingdon	5AT	162	246,900	171	1.05	0.91	1.22	692.6
		Hounslow	5HY	135	215,300	208	1.55	1.35	1.77	966.1
		Kensington and Chelsea	5LA							
		Westminster	5LC							
	South East London	Bexley	TAK	153	218,600	176	1.15	0.99	1.33	805.1
		Bromley	5A7	213	297,200	203	0.96	0.83	1.10	683.0
		Greenwich Teaching	5A8	137	221,300	156	1.13	0.97	1.33	704.9
		Lambeth	5LD	157	271,000	218	1.39	1.22	1.59	804.4
		Lewisham	5LF	152	251,900	264	1.74	1.54	1.96	1,048.0
		Southwark	5LE	152	255,500	255	1.68	1.48	1.89	998.0
	South West London	Croydon	5K9	219	335,900	258	1.18	1.04	1.33	768.1
Kingston		5A5								
Richmond and Twickenham		5M6								
Sutton and Merton		5M7								
Wandsworth		5LG								
South East	Hampshire & Isle of Wight	Isle of Wight National Health Service	5QT	108	134,600	65	0.60	0.47	0.77	482.9
		Hampshire	5QC	905	1,244,900	708	0.78	0.73	0.84	568.7
		Portsmouth City Teaching	5FE	124	188,400	127	1.02	0.86	1.21	674.1
		Southampton City	5L1	142	220,500	129	0.91	0.76	1.08	585.0
	Kent & Medway	West Kent	5P9							
		Medway	5L3							
		Eastern and Coastal Kent	5QA							
	Surrey & Sussex	Hastings and Rother	5P8	137	173,200	107	0.78	0.65	0.95	617.8
		Brighton and Hove City	5LQ	170	249,900	149	0.88	0.75	1.03	596.2
		East Sussex Downs and Weald	5P7	254	321,400	202	0.80	0.69	0.91	628.5
		Surrey	5P5	763	1,049,900	610	0.80	0.74	0.87	581.0
		West Sussex	5P6	574	756,100	447	0.78	0.71	0.85	591.2
	Thames Valley	Milton Keynes	5CQ	139	219,700	133	0.96	0.81	1.13	605.4
		Berkshire East	5QG	246	374,800	277	1.13	1.00	1.27	739.1
		Berkshire West	5QF	294	438,500	297	1.01	0.90	1.13	677.3
Oxfordshire		5QE	403	585,000	436	1.08	0.99	1.19	745.3	
Buckinghamshire		5QD	348	491,800	343	0.98	0.89	1.09	697.4	
South West	Avon, Gloucestershire & Wiltshire	Bath and North East Somerset	5FL	124	169,600	108	0.87	0.72	1.05	636.8
		Bristol	5QJ	257	389,600	336	1.31	1.18	1.46	862.4
		Gloucestershire	5QH	418	566,100	397	0.95	0.86	1.05	701.3
		Swindon	5K3	126	185,900	123	0.97	0.82	1.16	661.6
		South Gloucestershire	5A3	174	246,000	185	1.06	0.92	1.23	752.0
		Wiltshire	5QK	317	436,300	228	0.72	0.63	0.82	522.6
	Dorset & Somerset	Bournemouth and Poole	5QN	226	301,600	184	0.81	0.70	0.94	610.1
		Dorset	5QM	324	394,500	248	0.76	0.68	0.87	628.6
		North Somerset	5M8	147	189,600	149	1.02	0.86	1.19	785.9
		Somerset	5QL	385	503,500	341	0.88	0.80	0.98	677.3
	South West Peninsula	Devon	5QQ	560	710,400	493	0.88	0.81	0.96	694.0
		Plymouth Teaching	5F1	169	241,600	194	1.15	1.00	1.32	803.0
		Torbay	TAL	104	130,600	99	0.95	0.78	1.16	758.0
		Cornwall and Isles of Scilly	5QP	401	508,000	420	1.05	0.95	1.15	826.8

Table D.9: (continued)

UK area	SHA	Name	Code	Tot exp	Tot pop	Tot obs	O/E	L 95% CL	U 95% CL	Crude rate pmp
Wales	Bro Taf	Cardiff	6A8	205	314,969	251	1.23	1.08	1.39	796.9
		Merthyr Tydfil	6B8	39	55,566	73	1.88	1.49	2.36	1,313.7
		Rhondda, Cynon, Taff	6A9	157	223,693	217	1.38	1.21	1.58	970.1
		Vale of Glamorgan	6B6	84	116,751	91	1.08	0.88	1.32	779.4
	Dyfed Powys	Carmarthenshire	6B7	133	172,960	149	1.12	0.95	1.32	861.5
		Ceredigion	6A4	54	73,544	45	0.83	0.62	1.11	611.9
		Pembrokeshire	6A3	89	115,618	82	0.92	0.74	1.14	709.2
		Powys	6C4	99	125,503	93	0.94	0.77	1.16	741.0
	Gwent	Blaenau Gwent	6C2	49	68,272	56	1.14	0.88	1.49	820.3
		Caerphilly	6B2	119	170,390	139	1.17	0.99	1.38	815.8
		Monmouthshire	6A1	65	85,343	72	1.11	0.88	1.40	843.7
		Newport	6B9	97	138,497	116	1.20	1.00	1.44	837.6
	Morgannwg	Torfaen	6C3	64	89,636	74	1.16	0.93	1.46	825.6
		Bridgend	6B3	93	128,145	119	1.27	1.06	1.53	928.6
		Neath Port Talbot	6A5	98	131,456	121	1.23	1.03	1.47	920.5
	North Wales	Swansea	6A6	165	226,286	212	1.29	1.13	1.47	936.9
		Conwy	6A7	89	112,599	78	0.88	0.71	1.10	692.7
		Denbighshire	6C1	70	92,531	66	0.94	0.74	1.20	713.3
		Flintshire	6B5	106	148,393	117	1.10	0.92	1.32	788.4
		Gwynedd	6A2	86	116,068	87	1.01	0.82	1.25	749.6
Isle of Anglesey		6B1	52	67,660	53	1.02	0.78	1.33	783.3	
Wrexham		6B4	89	125,346	108	1.21	1.00	1.46	861.6	

### ***Important notification of previous error affecting part of Wales data***

In this appendix in previous reports, the observed values for two areas in Wales (Vale of Glamorgan and Torfaen) were inadvertently switched. This led to the ratios and the crude rates **being incorrectly**

**high for Torfaen and lower for Vale of Glamorgan.** The above analysis shows the correct data. The similar analyses of these two LA areas in Chapters 3 and 4 (incidence/prevalence) published within the main Report, have always been correct.