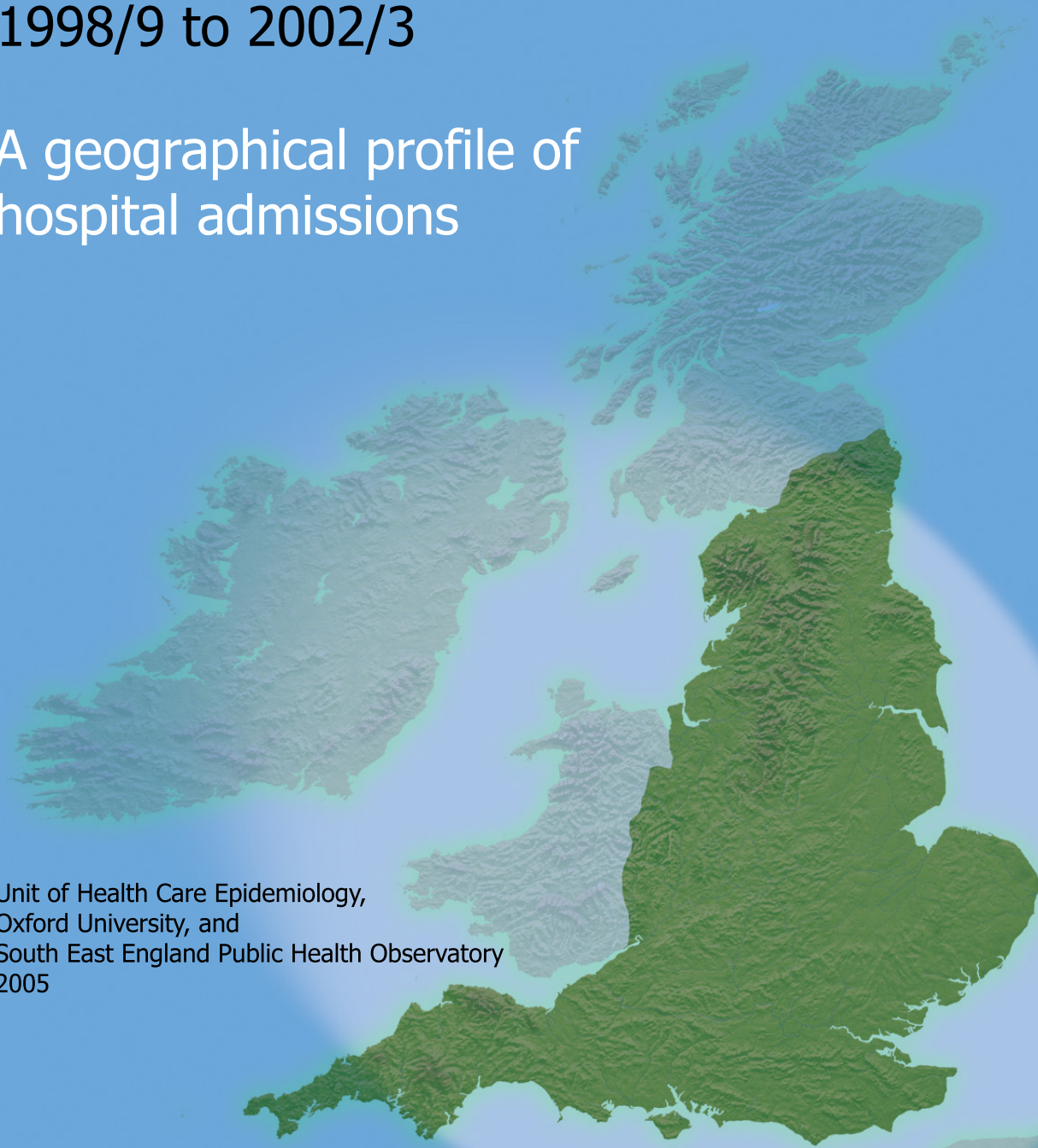


Head injuries in England 1998/9 to 2002/3

A geographical profile of
hospital admissions

Unit of Health Care Epidemiology,
Oxford University, and
South East England Public Health Observatory
2005



Head injuries in England 1998/9 to 2002/3.

A geographical profile of hospital admissions.

**Authors: Michael Goldacre, David Yeates, Leicester Gill,
Henry McGuinness, Daniel Meddings**

**Published by: Unit of Health-Care Epidemiology, Oxford University, and
South East England Public Health Observatory, 2005**

This document provides a geographical profile of hospital admission for head injuries in England. The geographical areas covered are the standard local authority areas of England. The period covered is April 1 1998 to March 31 2003. The data are from Hospital Episode Statistics (HES). HES includes data on all NHS hospital admissions (including admissions for day case care). This analysis includes HES data about men and women of all ages.

The maps show:

- (a) The spell-based admission rates per 100,000 resident population for each local authority per year, expressed as an average annual rate. The spell is the hospital admission, representing the continuous time spent in a hospital Trust from admission to discharge. A person admitted several times for the diagnosis is counted as many times as he/she has admissions. The data in the maps are shown as quintiles of local authorities, with the one-fifth of local authorities with the lowest rates shown in the lightest colour and the one-fifth of local authorities with the highest rates shown in the darkest colour.
- (b) The person-based admission rate per 100,000 resident population for each local authority area per year, counting people once (and only once) per year in which they were admitted, expressed as an average annual rate. If the person has another admission for the condition in a

different year, he/she is counted once again (and only once) for each different year of admission.

- (c) The ratio of the number of spells with the diagnosis (a, above) per person admitted with the diagnosis (b, above), expressed as an annual average.

The two error-bar charts provide a plot of the values of the average annual spell-based rate and the average annual person-based rate (counting people once, and only once, in each year) for each local authority. Each vertical line represents one local authority area. It shows the point estimate for the standardised rate for the area with its 95% confidence interval. At a glance, the error-bar charts show the spread of rates across England and the extent to which variation across the country is statistically significant.

The first scatter-plot shows the number of spells per person plotted against the person-based rate. The second scatter-plot shows the average Index of Multiple Deprivation (IMD 2004) score for each local authority plotted against the person-based rate (counting people once, and only once, in each year) for each local authority in England.

The first table shows the individual values for each local authority, with the local authorities ranked in alphabetical order. For each local authority, the information in the table provides data about spells showing the observed number of spells (Obs.); the expected number of spells (Exp.), obtained by applying national age-sex-specific rates to the age-sex distribution of the local authority population; the age-standardised rate, calculated by indirect standardisation, expressed per 100,000 population with the 95% lower and upper confidence limits for the rate; and the same measures for people admitted (counting people once, and only once, in each year) per 100,000 population per year.

The second table shows the local authority areas ranked according to the standardised spell-based admission rate (ranked from highest to lowest rate).

The third table shows the local authority areas ranked according to the standardised person-based admission rate, in which people are counted once per year (ranked from highest to lowest rate).

Some technical notes:

- Dataset used: UHCE-built linked file for England, 1998-2003, CIPS file, analysis template 2a
- Diagnosis codes used: ICD10 code S00-S09
- Diagnosis position: principal diagnosis in either the first or the last FCE in the CIPS
- Operation codes used: -
- Operation position: -
- Period covered: admissions from 1.4.1998 to 31.3.2003
- Source of admission: all
- Exclusion of successive admissions: -
- Specialty restriction: -
- Age/sex restriction: all ages, both sexes
- Restrictions relating to presence of other diagnoses or operations: none
- Restrictions relating to length of stay: none
- Restrictions relating to type of hospital: those in England only, otherwise none

- Place of residence: that on HES record at the time of admission; in the analysis of 'person-based rates' someone who moves home and has an admission from two different areas is counted twice – once for each area.

We are very grateful for technical and clerical support from Susan Flynn, for statistical advice from Valerie Seagroatt and for computing support from Glenys Bettley. David Yeates, Leicester Gill, Glenys Bettley, Susan Flynn and Valerie Seagroatt are funded by the NHS National Centre for Research Capacity Development. Henry McGuinness and Daniel Meddings are funded by the South East England Public Health Observatory. Ethical approval: REC references 04/Q2006/175 and 04/Q2006/176.

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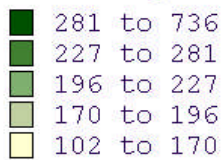
Head injuries: spells: males and females

Indirectly standardised rate per 100000: each local authority in England

Principal diagnosis on admission or discharge: 1998/99 to 2002/03

S00.0-S09.9

Quintile range of rates



Manchester



West Midlands



London



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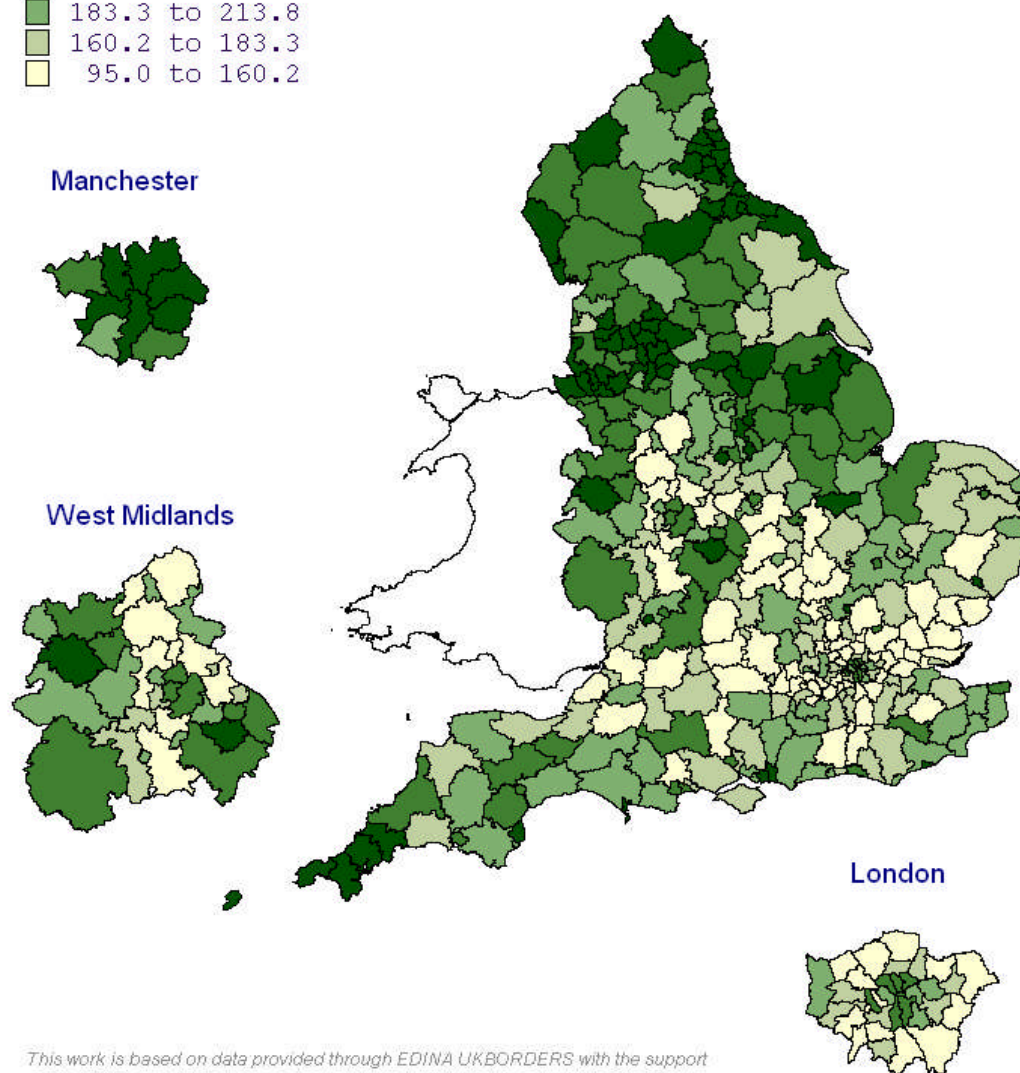
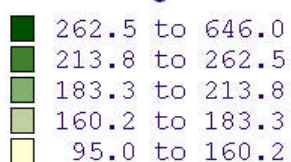
Head injuries : people: males and females

Indirectly standardised rate per 100000: each local authority in England

Principal diagnosis on admission or discharge: 1998/99 to 2002/03

S00.0-S09.9

Quintile range of rates



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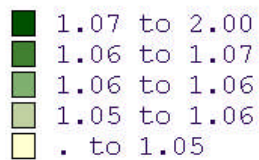
Head injuries: ratios: males and females

Number of spells per person: each local authority in England

Principal diagnosis on admission or discharge: 1998/99 to 2002/03

S00.0-S09.9

Ratios



Manchester



West Midlands

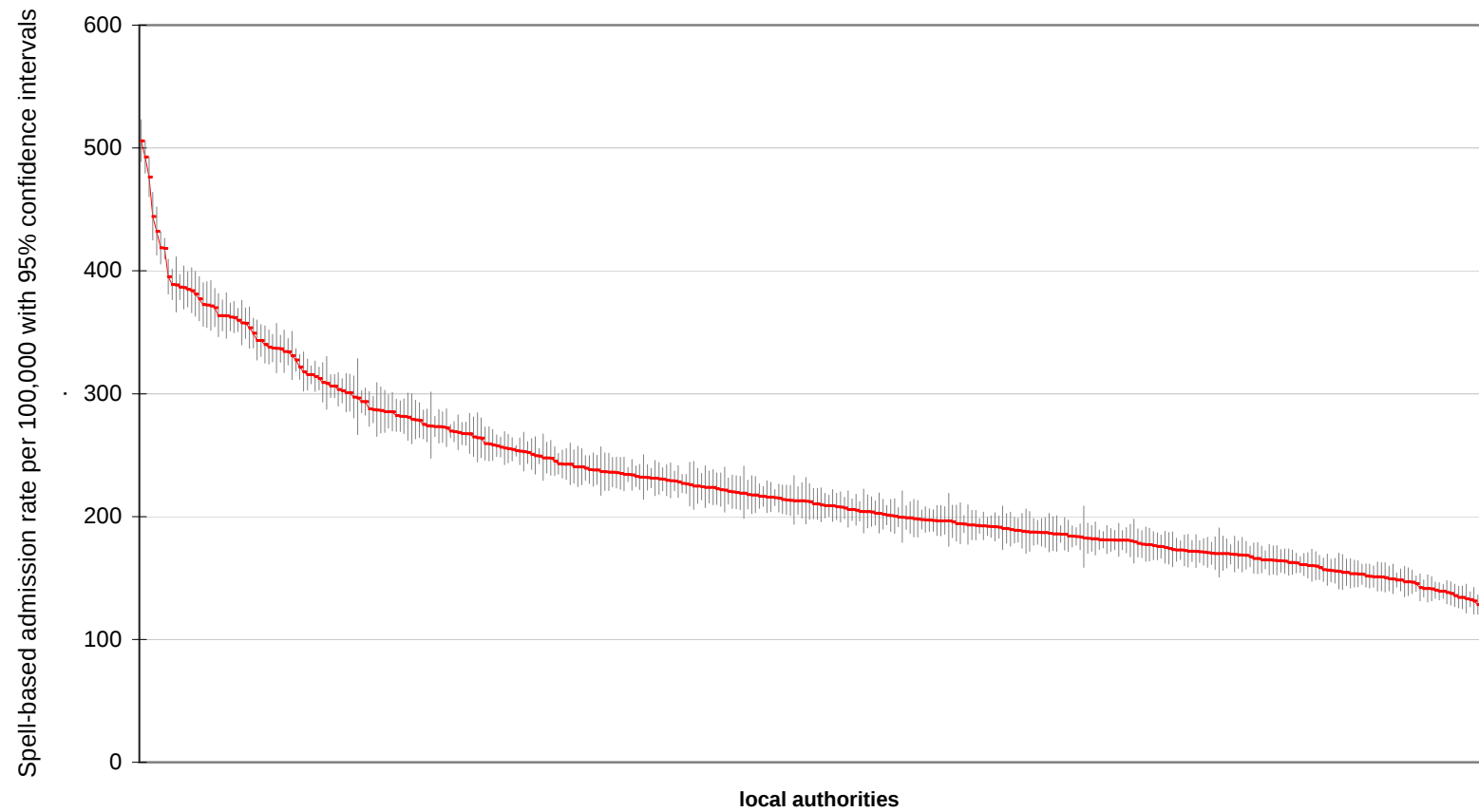


London

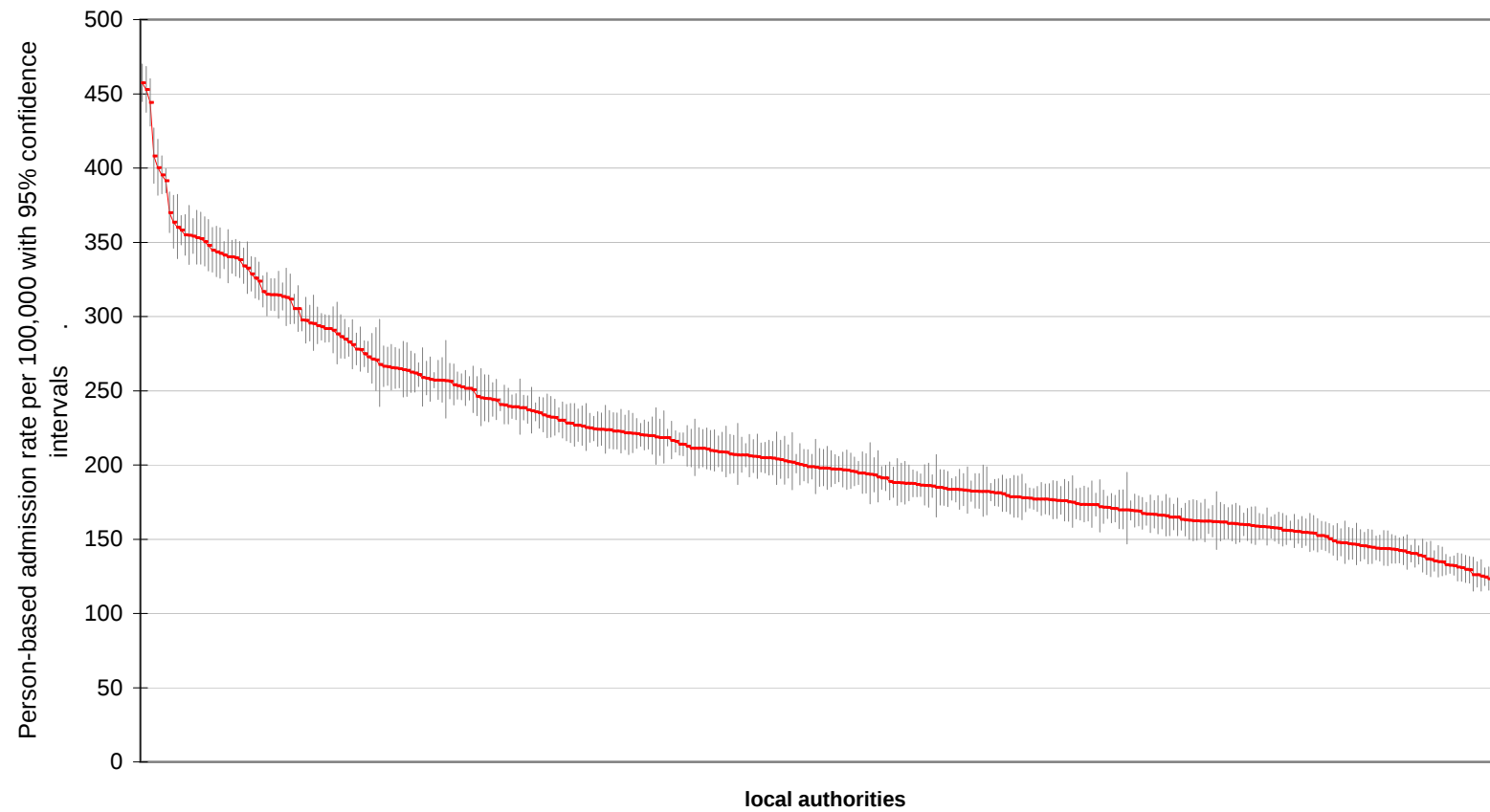


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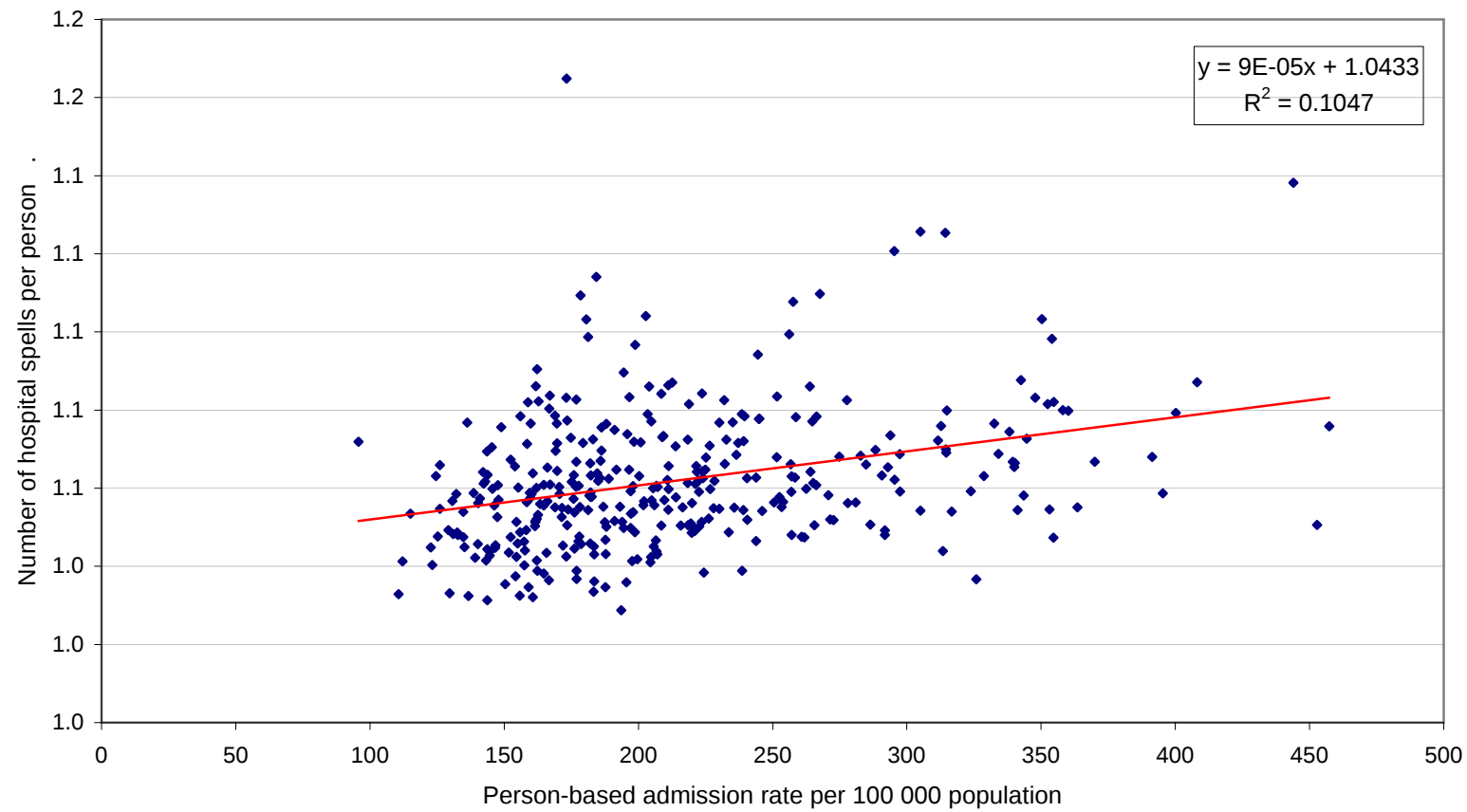
Head injuries : spell-based admission rate per 100 000 population for each local authority, both sexes



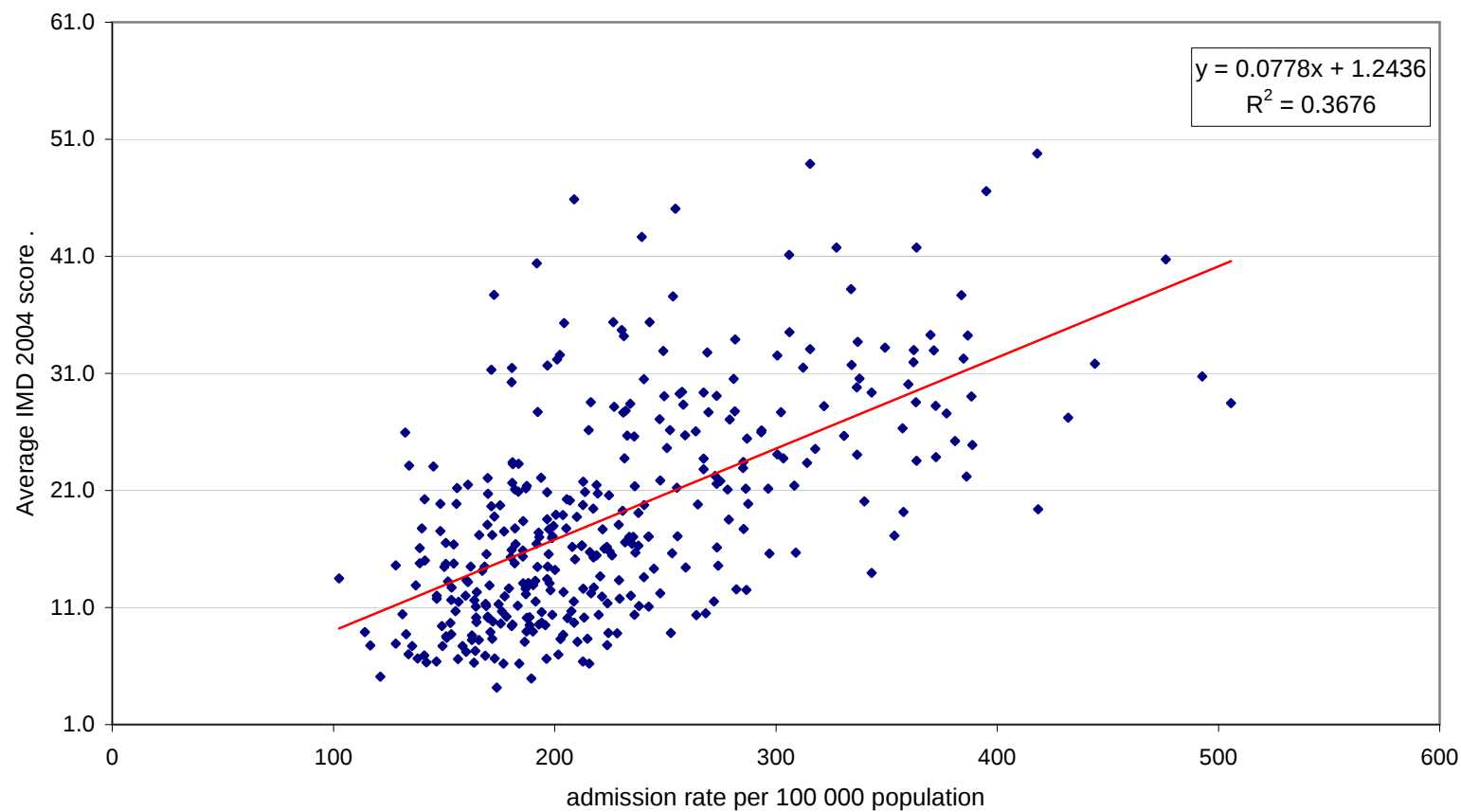
Head injuries : person-based admission rate per 100 000 population for each local authority, both sexes



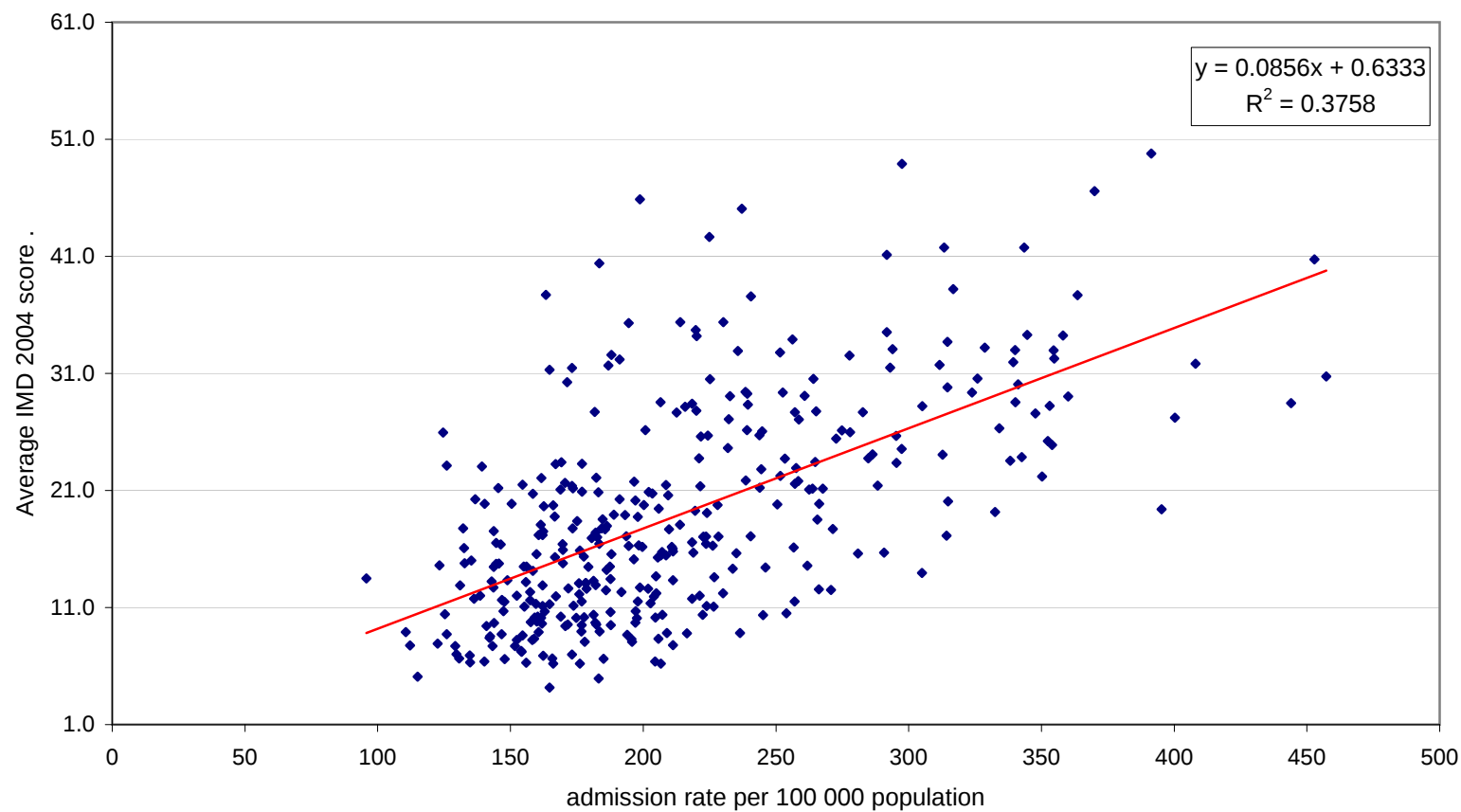
Head injuries : number of spells per person plotted against the person-based admission rate for each local authority,
both sexes



Head injuries : average IMD score plotted against the spell-based admission rate for each local authority, both sexes



Head injuries : average IMD score plotted against the person-based admission rate for each local authority, both sexes



Admissions - 1998/99 to 2002/03					Head injuries, all ages, both sexes										
					Spells					People				Ratio	
Label	Local authority	IMD 2004: Average Score	StHA	GOR	Obs.	Exp.	indirect admission rate per 100,000	95% Confidence interval		Obs.	Exp.	indirect admission rate per 100,000	95% Confidence interval		Spells to People
N/A	ALL ENGLAND				571822	571822.00	232.26	231.66	232.86	538527	538527.00	218.73	218.15	219.32	
45UB	Adur	17.0 Q19	J		567	682.07	193.07	177.51	209.64	536	642.06	182.60	167.47	198.74	1.06
16UB	Allerdale	22.9 Q13	B		1285	1046.75	285.12	269.74	301.15	1160	985.00	257.60	242.98	272.86	1.11
35UB	Alnwick	16.1 Q09	A		403	342.42	273.35	247.31	301.38	378	322.09	256.70	231.47	283.93	1.07
17UB	Amber Valley	18.9 Q24	E		1146	1306.47	203.73	192.1	215.88	1086	1229.69	193.18	181.86	205.02	1.06
45UC	Arun	15.6 Q19	J		1382	1627.09	197.27	187.01	207.96	1316	1530.47	188.08	178.06	198.53	1.05
37UB	Ashfield	27.8 Q24	E		1523	1257.06	281.39	267.44	295.89	1435	1183.75	265.16	251.62	279.24	1.06
29UB	Ashford	13.4 Q18	J		985	1164.12	196.52	184.44	209.19	941	1096.73	187.67	175.87	200.06	1.05
11UB	Aylesbury Vale	8.3 Q16	J		1644	1884.43	202.62	192.95	212.66	1587	1775.40	195.52	186.02	205.39	1.04
42UB	Babergh	11.3 Q01	G		697	926.79	174.67	161.94	188.14	657	872.33	164.74	152.38	177.83	1.06
00AB	Barking and Dagenham	31.3 Q06	H		1470	1993.10	171.30	162.65	180.29	1416	1880.16	164.74	156.27	173.54	1.04
00AC	Barnet	16.1 Q05	H		2264	3784.77	138.93	133.27	144.78	2159	3564.98	132.47	126.94	138.18	1.05
00CC	Barnsley	33.0 Q23	D		3874	2483.58	362.29	350.97	373.88	3636	2338.95	340.03	329.07	351.27	1.07
16UC	Barrow-In-Furness	33.0 Q13	B		1305	816.14	371.38	351.5	392.09	1246	768.69	354.55	335.14	374.8	1.05
22UB	Basildon	20.7 Q03	G		1396	1908.51	169.89	161.09	179.04	1303	1798.39	158.48	149.99	167.33	1.07
24UB	Basingstoke and Deane	8.8 Q17	J		1675	1734.99	224.23	213.62	235.23	1561	1634.50	208.90	198.66	219.52	1.07
37UC	Bassetlaw	25.7 Q24	E		1338	1199.86	259.00	245.3	273.26	1259	1129.57	243.80	230.51	257.65	1.06
00HA	Bath and North East Somerset UA	12.2 Q20	K		1820	1953.26	216.41	206.58	226.59	1722	1838.14	204.91	195.35	214.83	1.06
09UD	Bedford	17.5 Q02	G		1086	1700.98	148.29	139.6	157.37	1053	1602.42	143.74	135.19	152.69	1.03
35UC	Berwick-upon-Tweed	21.2 Q09	A		364	285.14	296.49	266.81	328.57	328	268.08	267.63	239.44	298.22	1.11
00AD	Bexley	15.0 Q07	H		1534	2521.27	141.31	134.33	148.56	1468	2375.09	135.20	128.37	142.29	1.04
00CN	Birmingham	37.6 Q27	F		13240	12130.48	253.50	249.2	257.86	12587	11443.27	240.60	236.41	244.84	1.05
31UB	Blaby	8.7 Q25	E		880	1002.38	203.90	190.65	217.83	837	943.79	193.98	181.06	207.58	1.05
00EX	Blackburn with Darwen UA	32.3 Q13	B		2794	1686.53	384.77	370.63	399.31	2582	1591.93	354.77	341.22	368.73	1.08
00EY	Blackpool UA	33.9 Q13	B		1969	1624.58	281.50	269.2	294.21	1791	1528.97	256.22	244.49	268.37	1.10
35UD	Blyth Valley	26.1 Q09	A		1040	915.80	263.76	247.97	280.29	965	862.24	244.80	229.6	260.75	1.08
17UC	Bolsover	30.5 Q24	E		834	805.96	240.34	224.3	257.22	781	758.84	225.12	209.61	241.48	1.07
00BL	Bolton	29.4 Q14	B		3376	3044.51	257.55	248.93	266.38	3129	2869.18	238.54	230.26	247.05	1.08
32UB	Boston	21.9 Q24	E		668	626.23	247.75	229.32	267.27	643	589.32	238.66	220.56	257.84	1.04
00HN	Bournemouth UA	23.7 Q22	K		1947	1952.59	231.59	221.42	242.11	1856	1836.86	221.01	211.07	231.3	1.05
00MA	Bracknell Forest UA	8.6 Q16	J		901	1286.81	162.62	152.18	173.6	857	1212.79	154.57	144.39	165.27	1.05
00CX	Bradford	32.9 Q12	D		6096	5684.29	249.08	242.87	255.41	5778	5361.87	235.71	229.67	241.87	1.06
22UC	Braintree	13.2 Q03	G		981	1501.15	151.78	142.43	161.58	924	1413.94	142.94	133.87	152.46	1.06

Admissions - 1998/99 to 2002/03					Head injuries, all ages, both sexes										
					Spells					People				Ratio	
Label	Local authority	IMD 2004: Average Score	StHA	GOR	Obs.	Exp.	indirect admission rate per 100,000	95% Confidence interval		Obs.	Exp.	indirect admission rate per 100,000	95% Confidence interval		Spells to People
N/A	ALL ENGLAND				571822	571822.00	232.26	231.66	232.86	538527	538527.00	218.73	218.15	219.32	
33UB	Breckland	14.5	Q01	G	1123	1357.46	192.14	181.07	203.72	1048	1277.88	179.39	168.69	190.58	1.07
00AE	Brent	26.0	Q04	H	1803	3161.33	132.46	126.42	138.72	1696	2977.53	124.59	118.73	130.67	1.06
22UD	Brentwood	8.9	Q03	G	377	766.87	114.18	102.94	126.31	365	721.66	110.63	99.57	122.58	1.03
39UB	Bridgnorth	12.3	Q26	F	510	580.79	203.95	186.63	222.44	479	546.32	191.78	174.99	209.75	1.06
00ML	Brighton and Hove UA	25.7	Q19	J	2977	2971.42	232.69	224.41	241.21	2867	2794.94	224.37	216.23	232.74	1.04
00HB	Bristol, City of UA	27.7	Q20	K	3894	4703.98	192.27	186.27	198.4	3680	4429.52	181.72	175.9	187.69	1.06
33UC	Broadland	9.6	Q01	G	984	1301.72	175.57	164.77	186.89	906	1224.60	161.83	151.46	172.72	1.09
00AF	Bromley	13.2	Q07	H	2354	3400.54	160.78	154.35	167.41	2280	3201.80	155.76	149.43	162.29	1.03
47UB	Bromsgrove	10.1	Q28	F	686	968.43	164.52	152.44	177.31	663	911.29	159.14	147.25	171.73	1.03
26UB	Broxbourne	14.7	Q02	G	634	976.17	150.85	139.33	163.06	608	919.45	144.64	133.37	156.61	1.04
37UD	Broxtowe	16.0	Q24	E	1161	1212.29	222.43	209.82	235.6	1101	1140.72	211.12	198.83	223.97	1.05
30UD	Burnley	31.8	Q13	B	2021	1056.96	444.10	424.95	463.89	1859	996.41	408.09	389.75	427.07	1.09
00BM	Bury	23.5	Q14	B	3260	2082.79	363.53	351.16	376.23	3034	1962.20	338.21	326.28	350.47	1.07
00CY	Calderdale	25.4	Q12	D	2739	2216.98	286.95	276.3	297.9	2604	2088.66	272.70	262.33	283.38	1.05
12UB	Cambridge	14.6	Q01	G	1636	1387.30	273.89	260.78	287.5	1562	1304.87	261.84	249.01	275.15	1.05
00AG	Camden	34.7	Q05	H	2330	2350.22	230.26	221	239.8	2222	2210.99	219.82	210.78	229.16	1.05
41UB	Cannock Chase	20.3	Q26	F	637	1047.82	141.20	130.44	152.6	617	987.16	136.71	126.14	147.94	1.03
29UC	Canterbury	16.2	Q18	J	1444	1613.13	207.91	197.32	218.91	1386	1518.55	199.64	189.27	210.44	1.04
15UB	Caradon	18.4	Q21	K	706	882.79	185.74	172.29	199.97	665	830.56	175.13	162.07	188.96	1.06
16UD	Carlisle	22.2	Q13	B	1901	1143.34	386.17	369	403.93	1723	1075.98	350.27	333.92	367.21	1.10
15UC	Carrick	19.2	Q21	K	1519	986.65	357.57	339.82	376.02	1411	928.21	332.50	315.38	350.32	1.08
35UE	Castle Morpeth	15.8	Q09	A	519	536.30	224.77	205.84	244.96	487	504.34	211.22	192.87	230.84	1.07
22UE	Castle Point	12.7	Q03	G	632	956.58	153.45	141.72	165.89	591	900.25	143.59	132.25	155.65	1.07
31UC	Charnwood	12.1	Q25	E	1443	1791.79	187.05	177.52	196.95	1357	1686.91	175.96	166.72	185.57	1.06
22UF	Chelmsford	8.6	Q03	G	1162	1787.47	150.99	142.43	159.92	1095	1682.88	142.32	134.02	151.01	1.06
23UB	Cheltenham	14.4	Q20	K	1440	1290.09	259.25	246.03	272.99	1366	1214.11	246.10	233.22	259.51	1.05
38UB	Cherwell	11.2	Q16	J	1199	1519.28	183.30	173.07	193.97	1137	1431.46	173.74	163.79	184.14	1.05
13UB	Chester	17.0	Q15	B	1359	1350.47	233.72	221.46	246.49	1294	1270.92	222.71	210.74	235.18	1.05
17UD	Chesterfield	27.1	Q24	E	1192	1118.81	247.45	233.6	261.91	1118	1053.06	232.22	218.81	246.25	1.07
20UB	Chester-Le-Street	21.4	Q10	A	797	600.52	308.25	287.22	330.42	745	565.19	288.32	267.99	309.79	1.07
45UD	Chichester	10.7	Q19	J	1083	1211.76	207.58	195.4	220.32	1028	1140.12	197.22	185.35	209.66	1.05
11UC	Chiltern	6.2	Q16	J	797	1006.05	184.00	171.44	197.23	763	947.30	176.18	163.9	189.14	1.04

Admissions - 1998/99 to 2002/03					Head injuries, all ages, both sexes										
					Spells					People				Ratio	
Label	Local authority	IMD 2004: Average Score	StHA	GOR	Obs.	Exp.	indirect admission rate per 100,000	95% Confidence interval		Obs.	Exp.	indirect admission rate per 100,000	95% Confidence interval		Spells to People
N/A	ALL ENGLAND				571822	571822.00	232.26	231.66	232.86	538527	538527.00	218.73	218.15	219.32	
30UE	Chorley	17.2 Q13	B		1706	1120.82	353.52	336.94	370.7	1516	1055.02	314.31	298.68	330.54	1.13
19UC	Christchurch	12.6 Q22	K		392	507.73	179.32	162	197.98	375	477.30	171.85	154.9	190.16	1.05
22UG	Colchester	14.6 Q03	G		1006	1822.54	128.20	120.4	136.37	967	1716.46	123.23	115.58	131.25	1.04
13UC	Congleton	9.5 Q15	B		847	1005.02	195.74	182.78	209.38	812	945.79	187.79	175.1	201.17	1.04
16UE	Copeland	25.7 Q13	B		1105	775.82	330.80	311.58	350.9	986	730.28	295.33	277.18	314.35	1.12
34UB	Corby	27.1 Q25	E		731	608.30	279.11	259.24	300.1	678	573.31	258.68	239.57	278.9	1.08
23UC	Cotswold	8.8 Q20	K		982	903.26	252.51	236.96	268.81	919	849.94	236.51	221.46	252.31	1.07
00CQ	Coventry	28.2 Q28	F		3580	3665.33	226.85	219.48	234.41	3408	3454.42	215.80	208.61	223.16	1.05
36UB	Craven	11.9 Q11	D		568	595.98	221.36	203.52	240.33	523	560.78	204.00	186.89	222.25	1.09
45UE	Crawley	14.8 Q19	J		779	1171.88	154.39	143.74	165.63	735	1104.19	145.60	135.26	156.52	1.06
13UD	Crewe and Nantwich	17.1 Q15	B		1392	1265.52	255.47	242.22	269.25	1310	1191.91	240.41	227.56	253.79	1.06
00AH	Croydon	19.9 Q08	H		2519	3945.14	148.30	142.56	154.21	2385	3717.82	140.32	134.74	146.07	1.06
26UC	Dacorum	9.5 Q02	G		1278	1573.19	188.68	178.47	199.31	1198	1481.79	176.84	166.97	187.15	1.07
00EH	Darlington UA	24.6 Q10	A		1540	1125.79	317.71	302.04	333.98	1441	1060.17	297.31	282.15	313.07	1.07
29UD	Dartford	17.2 Q18	J		707	990.07	165.85	153.85	178.54	685	932.85	160.62	148.81	173.11	1.03
34UC	Daventry	10.2 Q25	E		579	792.69	169.65	156.11	184.05	547	746.65	160.25	147.1	174.25	1.06
00FK	Derby UA	27.7 Q24	E		3580	2750.67	302.28	292.46	312.35	3351	2592.00	282.78	273.29	292.52	1.07
17UF	Derbyshire Dales	12.5 Q24	E		653	765.49	198.13	183.22	213.92	612	719.99	185.93	171.49	201.26	1.07
20UD	Derwentside	28.2 Q10	A		1547	965.54	372.13	353.81	391.14	1467	908.80	353.08	335.24	371.63	1.05
00CE	Doncaster	31.5 Q23	D		4400	3273.29	312.20	303.05	321.57	4130	3083.30	292.99	284.12	302.06	1.07
29UE	Dover	18.7 Q18	J		1086	1201.19	209.98	197.68	222.86	1024	1131.21	198.00	186.06	210.51	1.06
00CR	Dudley	22.1 Q27	F		2875	3445.68	193.79	186.77	201.01	2704	3244.44	182.30	175.49	189.3	1.06
20UE	Durham	18.5 Q10	A		1226	1021.90	278.65	263.26	294.69	1167	961.30	265.54	250.52	281.22	1.05
00AJ	Ealing	23.4 Q04	H		2815	3612.73	180.97	174.35	187.78	2632	3402.37	169.21	162.8	175.8	1.07
20UF	Easington	41.8 Q10	A		1674	1069.36	363.58	346.37	381.43	1582	1007.29	343.53	326.81	360.89	1.06
12UC	East Cambridgeshire	10.6 Q01	G		687	821.84	194.15	179.9	209.23	664	773.70	187.72	173.71	202.56	1.03
18UB	East Devon	12.7 Q21	K		1338	1427.63	217.68	206.17	229.66	1220	1342.49	198.78	187.78	210.25	1.10
19UD	East Dorset	8.2 Q22	K		660	925.06	165.71	153.3	178.85	629	869.79	158.18	146.06	171.04	1.05
24UC	East Hampshire	8.1 Q17	J		1120	1237.17	210.26	198.13	222.95	1043	1165.07	195.82	184.11	208.07	1.07
26UD	East Hertfordshire	6.3 Q02	G		1033	1467.47	163.49	153.67	173.78	985	1382.13	155.88	146.3	165.93	1.05
32UC	East Lindsey	24.6 Q24	E		1522	1410.02	250.70	238.26	263.62	1406	1326.18	231.90	219.93	244.35	1.08
34UD	East Northamptonshire	11.8 Q25	E		547	865.77	146.74	134.7	159.57	508	815.53	136.25	124.66	148.63	1.08

Admissions - 1998/99 to 2002/03					Head injuries, all ages, both sexes										
					Spells					People				Ratio	
Label	Local authority	IMD 2004: Average Score	StHA	GOR	Obs.	Exp.	indirect admission rate per 100,000	95% Confidence interval		Obs.	Exp.	indirect admission rate per 100,000	95% Confidence interval		Spells to People
N/A	ALL ENGLAND				571822	571822.00	232.26	231.66	232.86	538527	538527.00	218.73	218.15	219.32	
00FB	East Riding of Yorkshire UA	15.3 Q11	D		2774	3470.20	185.66	178.82	192.7	2651	3265.20	177.59	170.89	184.48	1.05
41UC	East Staffordshire	18.5 Q26	F		1000	1181.68	196.55	184.55	209.12	940	1113.18	184.70	173.08	196.9	1.06
21UC	Eastbourne	21.5 Q19	J		1020	1081.92	218.97	205.73	232.83	971	1018.26	208.58	195.67	222.13	1.05
24UD	Eastleigh	8.9 Q17	J		967	1314.13	170.91	160.3	182.03	909	1237.73	160.64	150.37	171.43	1.06
16UF	Eden	15.7 Q13	B		557	547.16	236.43	217.2	256.91	515	514.69	218.86	200.37	238.61	1.08
13UE	Ellesmere Port and Neston	19.8 Q15	B		1050	921.42	264.67	248.9	281.17	994	867.87	250.52	235.19	266.6	1.06
43UB	Elmbridge	7.0 Q19	J		812	1407.63	133.98	124.92	143.52	786	1325.70	129.69	120.78	139.08	1.03
00AK	Enfield	23.1 Q05	H		2051	3281.54	145.16	138.95	151.59	1968	3092.15	139.21	133.13	145.5	1.04
22UH	Epping Forest	13.3 Q03	G		939	1362.38	160.08	150	170.66	873	1282.61	148.88	139.17	159.09	1.08
43UC	Epsom and Ewell	6.9 Q19	J		561	772.89	168.58	154.92	183.13	540	727.53	162.35	148.95	176.64	1.04
17UG	Erewash	19.3 Q24	E		1237	1245.38	230.70	218.02	243.92	1177	1172.80	219.52	207.15	232.43	1.05
18UC	Exeter	21.6 Q21	K		1569	1334.18	273.14	259.79	286.99	1476	1255.67	257.11	244.16	270.57	1.06
24UE	Fareham	7.8 Q17	J		1153	1197.12	223.70	210.97	236.99	1088	1126.65	211.23	198.86	224.17	1.06
12UD	Fenland	19.8 Q01	G		859	937.56	212.80	198.8	227.52	808	882.70	200.22	186.65	214.52	1.06
42UC	Forest Heath	11.1 Q01	G		527	724.07	169.05	154.92	184.11	506	682.64	162.13	148.31	176.9	1.04
23UD	Forest of Dean	15.9 Q20	K		694	892.63	180.58	167.39	194.53	652	840.29	169.72	156.94	183.26	1.06
30UF	Fylde	13.1 Q13	B		700	822.32	197.71	183.33	212.92	631	773.30	178.48	164.83	192.97	1.11
00CH	Gateshead	33.2 Q09	A		3267	2172.74	349.23	337.36	361.42	3073	2045.27	328.65	317.13	340.48	1.06
37UE	Gedling	16.4 Q24	E		1268	1253.56	234.93	222.18	248.23	1206	1179.62	223.63	211.18	236.61	1.05
23UE	Gloucester	19.9 Q20	K		1583	1279.28	287.40	273.41	301.92	1468	1205.73	266.31	252.86	280.29	1.08
24UF	Gosport	16.3 Q17	J		827	905.98	212.01	197.8	226.97	759	853.57	194.50	180.91	208.84	1.09
29UG	Gravesham	18.1 Q18	J		794	1087.27	169.61	158.02	181.83	756	1024.47	161.41	150.11	173.34	1.05
33UD	Great Yarmouth	27.7 Q01	G		1024	1029.37	231.05	217.11	245.64	942	969.00	212.64	199.27	226.66	1.09
00AL	Greenwich	31.5 Q07	H		2036	2617.22	180.68	172.91	188.7	1953	2467.06	173.16	165.56	181.01	1.04
43UD	Guildford	8.3 Q19	J		1391	1504.03	214.80	203.66	226.4	1331	1415.48	205.68	194.78	217.03	1.05
00AM	Hackney	45.1 Q06	H		2754	2512.52	254.58	245.16	264.27	2570	2370.31	237.16	228.08	246.51	1.07
00ET	Halton UA	34.3 Q15	B		2185	1372.05	369.87	354.52	385.71	2037	1292.89	344.62	329.82	359.92	1.07
36UC	Hambleton	10.4 Q11	D		943	928.02	236.01	221.18	251.56	888	873.34	222.40	208.02	237.53	1.06
00AN	Hammersmith and Fulham	27.8 Q04	H		1954	1955.95	232.03	221.85	242.55	1850	1839.68	219.96	210.05	230.22	1.06
31UD	Harborough	7.2 Q25	E		582	845.26	159.92	147.19	173.46	561	795.77	154.20	141.7	167.51	1.04
00AP	Haringey	37.7 Q05	H		1981	2665.84	172.59	165.07	180.36	1876	2511.77	163.37	156.06	170.93	1.06
22UJ	Harlow	21.4 Q03	G		925	909.45	236.23	221.25	251.96	868	857.00	221.54	207.05	236.78	1.07

Admissions - 1998/99 to 2002/03					Head injuries, all ages, both sexes										
					Spells					People				Ratio	
Label	Local authority	IMD 2004: Average Score	StHA	GOR	Obs.	Exp.	indirect admission rate per 100,000	95% Confidence interval		Obs.	Exp.	indirect admission rate per 100,000	95% Confidence interval		Spells to People
N/A	ALL ENGLAND				571822	571822.00	232.26	231.66	232.86	538527	538527.00	218.73	218.15	219.32	
36UD	Harrogate	11.1 Q11	D		1783	1707.64	242.51	231.38	254.03	1665	1607.37	226.58	215.82	237.73	1.07
00AQ	Harrow	13.5 Q04	H		1088	2463.26	102.59	96.58	108.87	1015	2319.71	95.71	89.91	101.78	1.07
24UG	Hart	4.2 Q17	J		703	939.27	173.83	161.22	187.17	666	884.35	164.73	152.45	177.73	1.06
00EB	Hartlepool UA	37.7 Q10	A		1704	1031.06	383.84	365.83	402.51	1615	971.62	363.57	346.06	381.75	1.06
21UD	Hastings	31.7 Q19	J		1441	1001.38	334.22	317.19	351.94	1344	943.48	311.59	295.15	328.7	1.07
24UH	Havant	20.1 Q17	J		1932	1320.08	339.92	324.93	355.42	1789	1242.88	314.85	300.42	329.78	1.08
00AR	Havering	14.8 Q06	H		1527	2550.78	139.04	132.15	146.19	1457	2401.46	132.71	125.98	139.7	1.05
00GA	Herefordshire, County of UA	15.7 Q28	F		2115	1941.41	253.02	242.35	264.04	1964	1827.37	235.09	224.8	245.72	1.08
26UE	Hertsmere	12.0 Q02	G		750	1090.94	159.67	148.45	171.52	716	1027.58	152.41	141.45	163.99	1.05
17UH	High Peak	15.1 Q24	E		905	1004.62	209.23	195.81	223.31	850	946.03	196.53	183.54	210.2	1.06
00AS	Hillingdon	17.7 Q04	H		2477	2914.24	197.41	189.71	205.34	2331	2745.97	185.68	178.22	193.37	1.06
31UE	Hinckley and Bosworth	11.1 Q25	E		793	1120.24	164.41	153.17	176.26	748	1054.26	155.19	144.27	166.72	1.06
45UF	Horsham	6.7 Q19	J		819	1377.37	138.10	128.81	147.9	775	1296.97	130.70	121.66	140.24	1.06
00AT	Hounslow	23.3 Q04	H		2006	2573.39	181.05	173.21	189.15	1851	2424.48	167.00	159.47	174.78	1.08
12UE	Huntingdonshire	10.2 Q01	G		1452	1787.96	188.62	179.04	198.57	1369	1684.60	177.76	168.46	187.43	1.06
30UG	Hyndburn	28.5 Q13	B		1492	954.00	363.24	345.04	382.15	1399	899.53	340.19	322.59	358.49	1.07
42UD	Ipswich	23.4 Q01	G		1705	1387.96	285.31	271.93	299.18	1583	1307.84	264.75	251.87	278.13	1.08
00MW	Isle of Wight UA	21.1 Q17	J		1167	1489.45	181.98	171.68	192.72	1082	1401.33	168.89	158.97	179.26	1.08
00AU	Islington	42.7 Q05	H		2188	2123.45	239.32	229.39	249.56	2055	1998.74	224.89	215.27	234.83	1.06
46UB	Kennet	10.1 Q20	K		635	868.35	169.84	156.89	183.58	604	817.94	161.52	148.9	174.93	1.05
00AW	Kensington and Chelsea	21.5 Q04	H		1228	1774.03	160.77	151.9	170.02	1178	1667.51	154.52	145.82	163.61	1.04
15UD	Kerrier	25.2 Q21	K		1698	1035.35	380.91	363	399.47	1570	974.45	352.42	335.2	370.29	1.08
34UE	Kettering	15.3 Q25	E		726	935.95	180.16	167.29	193.75	672	881.54	166.74	154.37	179.84	1.08
33UE	Kings Lynn and West Norfolk	19.1 Q01	G		1546	1509.97	237.80	226.09	249.96	1455	1420.80	224.00	212.64	235.81	1.06
00FA	Kingston upon Hull, City of UA	41.1 Q11	D		3993	3030.49	306.02	296.6	315.67	3810	2855.94	291.81	282.61	301.22	1.05
00AX	Kingston upon Thames	11.6 Q08	H		1241	1760.36	163.73	154.75	173.1	1193	1657.26	157.46	148.65	166.65	1.04
00CZ	Kirklees	26.2 Q12	D		4230	4561.51	215.38	208.94	221.97	3947	4299.03	200.82	194.61	207.19	1.07
00BX	Knowsley	46.6 Q15	B		2988	1756.43	395.11	381.07	409.54	2801	1655.97	369.98	356.4	383.94	1.07
00AY	Lambeth	34.2 Q07	H		3249	3263.81	231.20	223.32	239.29	3094	3073.64	220.18	212.49	228.08	1.05
30UH	Lancaster	22.3 Q13	B		1882	1603.62	272.58	260.4	285.18	1737	1509.84	251.64	239.95	263.76	1.08
00DA	Leeds	27.7 Q12	D		9860	8497.17	269.51	264.22	274.88	9408	8003.51	257.12	251.95	262.37	1.05
00FN	Leicester UA	32.8 Q25	E		4104	3544.04	268.95	260.79	277.31	3843	3341.81	251.54	243.65	259.62	1.07

Admissions - 1998/99 to 2002/03					Head injuries, all ages, both sexes										
					Spells					People				Ratio	
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N/A	ALL ENGLAND				571822	571822.00	232.26	231.66	232.86	538527	538527.00	218.73	218.15	219.32	
21UF	Lewes	12.9 Q19	J		767	1044.90	170.49	158.63	182.99	729	983.46	162.14	150.58	174.35	1.05
00AZ	Lewisham	28.6 Q07	H		2829	3038.30	216.26	208.36	224.38	2703	2862.98	206.51	198.8	214.45	1.05
41UD	Lichfield	12.0 Q26	F		649	1028.02	146.63	135.56	158.36	613	967.49	138.59	127.83	150.01	1.06
32UD	Lincoln	27.2 Q24	E		1893	1017.62	432.05	412.81	451.96	1754	958.61	400.22	381.71	419.4	1.08
00BY	Liverpool	49.8 Q15	B		9552	5306.94	418.04	409.7	426.51	8944	4998.87	391.36	383.29	399.56	1.07
00KA	Luton UA	23.3 Q02	G		1777	2246.28	183.74	175.29	192.48	1714	2119.11	176.92	168.64	185.5	1.04
13UG	Macclesfield	11.1 Q15	B		1720	1677.69	238.11	226.99	249.64	1616	1578.56	223.92	213.14	235.11	1.06
29UH	Maidstone	11.5 Q18	J		1065	1579.56	156.60	147.33	166.29	1004	1487.13	147.67	138.68	157.1	1.06
22UK	Maldon	10.7 Q03	G		440	658.72	155.14	140.98	170.34	418	620.30	147.40	133.6	162.23	1.05
47UC	Malvern Hills	13.1 Q28	F		646	807.85	185.73	171.68	200.62	611	760.01	175.85	162.18	190.36	1.06
00BN	Manchester	48.9 Q14	B		7142	5260.00	315.36	308.09	322.76	6743	4958.34	297.46	290.41	304.65	1.06
37UF	Mansfield	32.5 Q24	E		1456	1124.93	300.61	285.37	316.46	1345	1059.46	277.69	263.04	292.93	1.08
00LC	Medway UA	18.0 Q18	J		2489	2898.53	199.44	191.68	207.44	2327	2732.22	186.29	178.8	194.02	1.07
31UG	Melton	10.1 Q25	E		427	529.14	187.42	170.06	206.07	398	498.15	174.76	158.01	192.8	1.07
40UB	Mendip	14.5 Q22	K		853	1177.08	168.31	157.2	180	791	1108.50	156.08	145.39	167.35	1.08
00BA	Merton	14.5 Q08	H		1552	2224.61	162.04	154.07	170.3	1484	2094.67	154.97	147.18	163.06	1.05
09UC	Mid Bedfordshire	7.7 Q02	G		879	1367.65	149.27	139.57	159.48	844	1288.37	143.29	133.79	153.29	1.04
18UD	Mid Devon	17.1 Q21	K		811	777.04	242.41	226.01	259.68	748	731.52	223.66	207.92	240.28	1.08
42UE	Mid Suffolk	9.8 Q01	G		717	967.69	172.09	159.72	185.16	666	911.00	159.91	147.99	172.53	1.08
45UG	Mid Sussex	6.4 Q19	J		916	1451.45	146.58	137.24	156.38	876	1366.54	140.22	131.08	149.82	1.05
00EC	Middlesbrough UA	40.7 Q10	A		3466	1690.51	476.19	460.47	492.31	3299	1593.54	452.83	437.51	468.55	1.05
00MG	Milton Keynes UA	15.6 Q16	J		1802	2474.42	169.14	161.42	177.14	1704	2332.62	159.79	152.29	167.56	1.06
43UE	Mole Valley	6.2 Q19	J		685	899.75	176.82	163.83	190.58	643	846.73	166.11	153.51	179.46	1.07
24UJ	New Forest	10.4 Q17	J		1636	1909.92	198.95	189.42	208.83	1489	1796.87	181.26	172.17	190.7	1.10
37UG	Newark and Sherwood	19.8 Q24	E		1230	1188.19	240.43	227.18	254.25	1166	1118.63	228.00	215.1	241.47	1.05
00CJ	Newcastle upon Tyne	34.5 Q09	A		4244	3220.73	306.05	296.91	315.4	4045	3032.24	291.79	282.87	300.92	1.05
41UE	Newcastle-under-Lyme	19.9 Q26	F		934	1393.74	155.65	145.82	165.96	902	1311.72	150.41	140.75	160.56	1.04
00BB	Newham	40.4 Q06	H		2570	3109.66	191.95	184.6	199.52	2464	2937.19	183.50	176.32	190.89	1.04
15UE	North Cornwall	22.8 Q21	K		1034	898.44	267.30	251.26	284.1	945	845.55	244.46	229.12	260.56	1.09
18UE	North Devon	20.6 Q21	K		951	983.58	224.56	210.52	239.3	886	925.66	209.36	195.8	223.62	1.07
19UE	North Dorset	11.4 Q22	K		679	704.69	223.79	207.27	241.28	615	663.42	202.77	187.06	219.45	1.10
17UJ	North East Derbyshire	18.9 Q24	E		919	1064.32	200.55	187.79	213.94	865	1001.29	188.96	176.58	201.99	1.06

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N/A	ALL ENGLAND				571822	571822.00	232.26	231.66	232.86	538527	538527.00	218.73	218.15	219.32	
00FC	North East Lincolnshire UA	29.4	Q11	D	2700	1827.11	343.22	330.39	356.41	2549	1721.84	323.81	311.36	336.63	1.06
26UF	North Hertfordshire	10.1	Q02	G	1230	1339.16	213.33	201.57	225.59	1180	1261.25	204.64	193.13	216.66	1.04
32UE	North Kesteven	11.5	Q24	E	1202	1026.40	271.99	256.83	287.82	1135	966.01	257.00	242.26	272.4	1.06
00FD	North Lincolnshire UA	21.2	Q11	D	1891	1721.17	255.18	243.8	266.94	1807	1620.63	243.89	232.77	255.4	1.05
33UF	North Norfolk	16.9	Q01	G	930	1086.41	198.82	186.25	212.02	843	1021.29	180.55	168.57	193.16	1.10
39UC	North Shropshire	16.6	Q26	F	640	641.42	231.74	214.13	250.41	603	603.85	218.43	201.34	236.58	1.06
00HC	North Somerset UA	14.1	Q20	K	1535	2131.32	167.27	159.01	175.86	1453	2005.79	158.45	150.41	166.81	1.06
00CK	North Tyneside	26.0	Q09	A	2727	2158.58	293.42	282.51	304.64	2582	2031.65	277.99	267.37	288.92	1.06
44UB	North Warwickshire	16.4	Q28	F	456	685.90	154.41	140.56	169.26	432	645.68	146.35	132.87	160.82	1.06
31UH	North West Leicestershire	15.9	Q25	E	764	956.06	185.60	172.67	199.24	725	899.99	176.20	163.61	189.51	1.05
46UC	North Wiltshire	8.4	Q20	K	929	1426.63	151.24	141.67	161.29	873	1343.97	142.08	132.81	151.83	1.06
34UF	Northampton	20.2	Q25	E	2052	2319.14	205.50	196.71	214.59	1909	2185.08	191.10	182.62	199.87	1.07
33UG	Norwich	28.3	Q01	G	1637	1473.14	258.09	245.74	270.91	1518	1386.48	239.48	227.59	251.84	1.08
00FY	Nottingham UA	41.8	Q24	E	4757	3375.45	327.32	318.08	336.76	4557	3180.57	313.39	304.36	322.63	1.04
44UC	Nuneaton and Bedworth	21.2	Q28	F	1087	1350.63	186.92	175.97	198.37	1009	1272.31	173.47	162.93	184.51	1.08
31UJ	Oadby and Wigston	9.7	Q25	E	530	634.27	194.08	177.9	211.32	497	597.21	182.03	166.38	198.76	1.07
00BP	Oldham	30.7	Q14	B	5460	2574.36	492.60	479.62	505.84	5075	2427.41	457.31	444.81	470.07	1.08
39UD	Oswestry	17.1	Q26	F	358	417.63	199.10	179	220.83	348	393.17	193.61	173.8	215.06	1.03
38UC	Oxford	19.7	Q16	J	1305	1728.51	175.35	165.96	185.13	1235	1626.70	166.06	156.93	175.59	1.06
30UJ	Pendle	27.6	Q13	B	1693	1042.77	377.08	359.33	395.48	1563	983.06	347.77	330.74	365.45	1.08
15UF	Penwith	29.0	Q21	K	1163	695.50	388.38	366.37	411.36	1077	654.20	360.10	338.91	382.26	1.08
00JA	Peterborough UA	23.4	Q01	G	2495	1845.34	314.03	301.82	326.59	2349	1739.30	295.41	283.58	307.6	1.06
00HG	Plymouth UA	26.2	Q21	K	3081	2838.80	252.07	243.25	261.13	2922	2673.03	239.11	230.52	247.94	1.05
00HP	Poole UA	14.3	Q22	K	1678	1591.52	244.88	233.3	256.88	1600	1497.74	233.67	222.36	245.41	1.05
00MR	Portsmouth UA	24.9	Q17	J	3824	2284.43	388.79	376.56	401.31	3482	2151.27	354.04	342.38	366	1.10
30UK	Preston	28.5	Q13	B	3418	1569.87	505.68	488.87	522.93	3003	1479.30	444.03	428.29	460.2	1.14
19UG	Purbeck	12.6	Q22	K	455	496.46	212.86	193.75	233.35	431	467.09	201.83	183.23	221.82	1.06
00MC	Reading UA	18.8	Q16	J	1308	1758.51	172.76	163.52	182.38	1262	1656.26	166.67	157.6	176.12	1.04
00BC	Redbridge	17.8	Q06	H	1719	2852.16	139.98	133.44	146.76	1624	2687.55	132.17	125.82	138.76	1.06
00EE	Redcar and Cleveland UA	30.6	Q10	A	2289	1573.68	337.83	324.13	351.96	2208	1482.07	325.87	312.42	339.76	1.04
47UD	Redditch	19.4	Q28	F	854	912.14	217.45	203.11	232.54	809	859.50	205.88	191.94	220.57	1.06
43UF	Reigate and Banstead	9.0	Q19	J	1159	1437.10	187.31	176.68	198.42	1093	1352.98	176.70	166.38	187.5	1.06

Admissions - 1998/99 to 2002/03					Head injuries, all ages, both sexes										
					Spells					People				Ratio	
Label	Local authority	IMD 2004: Average Score	StHA	GOR	Obs.	Exp.	indirect admission rate per 100,000	95% Confidence interval		Obs.	Exp.	indirect admission rate per 100,000	95% Confidence interval		Spells to People
N/A	ALL ENGLAND				571822	571822.00	232.26	231.66	232.86	538527	538527.00	218.73	218.15	219.32	
15UG	Restormel	23.9	Q21	K	1712	1067.92	372.34	354.9	390.4	1574	1005.11	342.54	325.82	359.89	1.09
30UL	Ribble Valley	10.3	Q13	B	679	597.43	263.97	244.48	284.59	630	562.26	245.09	226.32	265	1.08
00BD	Richmond upon Thames	9.7	Q08	H	1324	2011.38	152.88	144.76	161.35	1245	1892.93	143.86	135.98	152.08	1.06
36UE	Richmondshire	12.5	Q11	D	673	545.40	286.60	265.35	309.09	636	513.74	270.79	250.15	292.68	1.06
00BQ	Rochdale	33.7	Q14	B	3503	2414.40	336.98	325.91	348.33	3274	2276.32	314.60	303.92	325.57	1.07
22UL	Rochford	8.7	Q03	G	501	875.61	132.89	121.51	145.06	475	824.37	126.03	114.95	137.9	1.05
30UM	Rossendale	24.1	Q13	B	1091	752.56	336.71	317.02	357.3	1014	709.17	312.76	293.8	332.62	1.08
21UG	Rother	16.2	Q19	J	958	994.95	223.63	209.69	238.25	902	935.90	210.81	197.28	225.03	1.06
00CF	Rotherham	28.2	Q23	D	3928	2835.95	321.69	311.71	331.92	3726	2671.47	305.08	295.36	315.03	1.05
44UD	Rugby	13.6	Q28	F	1028	993.80	240.25	225.79	255.4	970	935.90	226.70	212.66	241.43	1.06
43UG	Runnymede	7.8	Q19	J	454	903.56	116.70	106.21	127.95	436	850.26	112.16	101.88	123.2	1.04
37UJ	Rushcliffe	9.0	Q24	E	974	1190.05	190.09	178.34	202.42	940	1120.04	183.57	172.02	195.7	1.04
24UL	Rushmoor	10.4	Q17	J	1020	1077.48	219.87	206.58	233.79	962	1015.57	207.20	194.31	220.72	1.06
00FP	Rutland UA	6.6	Q25	E	326	385.61	196.35	175.61	218.87	307	362.92	185.03	164.91	206.93	1.06
36UF	Ryedale	12.9	Q11	D	456	556.82	190.21	173.15	208.49	436	523.79	182.07	165.38	199.99	1.05
00BR	Salford	38.2	Q14	B	3707	2578.12	333.96	323.29	344.88	3517	2428.69	316.75	306.37	327.4	1.05
46UD	Salisbury	11.8	Q20	K	1290	1306.18	229.38	217.03	242.25	1228	1229.65	218.44	206.39	231.01	1.05
00CS	Sandwell	35.4	Q27	F	3266	3348.82	226.51	218.81	234.42	3088	3156.25	214.00	206.52	221.69	1.06
36UG	Scarborough	24.1	Q11	D	1555	1201.49	300.59	285.84	315.91	1480	1130.44	286.37	271.97	301.34	1.05
20UG	Sedgefield	29.1	Q10	A	1051	978.35	249.51	234.65	265.06	980	921.10	232.72	218.38	247.76	1.07
40UC	Sedgemoor	17.4	Q22	K	989	1191.57	192.77	180.94	205.17	934	1121.73	182.13	170.63	194.19	1.06
00CA	Sefton	26.1	Q15	B	4077	3226.53	293.48	284.54	302.63	3817	3037.97	274.82	266.17	283.68	1.07
36UH	Selby	13.1	Q11	D	688	849.62	188.08	174.28	202.67	652	800.03	178.26	164.84	192.49	1.06
29UK	Sevenoaks	9.6	Q18	J	960	1232.35	180.93	169.66	192.75	910	1160.42	171.53	160.57	183.05	1.05
00CG	Sheffield	28.4	Q23	D	6147	6097.04	234.16	228.34	240.09	5732	5741.13	218.39	212.77	224.11	1.07
29UL	Shepway	20.8	Q18	J	1052	1113.05	219.52	206.45	233.2	975	1048.03	203.49	190.92	216.68	1.08
39UE	Shrewsbury and Atcham	15.7	Q26	F	1446	1086.96	308.98	293.25	325.32	1360	1023.30	290.71	275.46	306.58	1.06
00MD	Slough UA	20.9	Q16	J	1324	1438.66	213.75	202.39	225.58	1253	1356.23	202.08	191.05	213.59	1.06
00CT	Solihull	16.4	Q27	F	1856	2248.37	191.73	183.1	200.65	1776	2117.45	183.46	175.03	192.2	1.05
09UE	South Bedfordshire	12.3	Q02	G	903	1273.09	164.74	154.17	175.84	863	1199.35	157.39	147.06	168.25	1.05
11UE	South Bucks	8.1	Q16	J	550	685.45	186.36	171.11	202.61	525	645.27	177.96	163.06	193.86	1.05
12UG	South Cambridgeshire	6.4	Q01	G	1344	1466.91	212.80	201.57	224.49	1291	1381.14	204.46	193.46	215.92	1.04

Admissions - 1998/99 to 2002/03					Head injuries, all ages, both sexes										
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N/A	ALL ENGLAND				571822	571822.00	232.26	231.66	232.86	538527	538527.00	218.73	218.15	219.32	
17UK	South Derbyshire	14.8	Q24	E	719	918.21	181.87	168.82	195.66	671	864.66	169.74	157.14	183.09	1.07
00HD	South Gloucestershire UA	9.8	Q20	K	1965	2771.80	164.65	157.45	172.1	1882	2610.82	157.67	150.63	164.96	1.04
18UG	South Hams	14.2	Q21	K	783	908.94	200.08	186.31	214.6	728	855.09	186.22	172.94	200.26	1.08
32UF	South Holland	15.3	Q24	E	777	829.65	217.52	202.49	233.37	733	780.33	205.47	190.86	220.9	1.06
32UG	South Kesteven	12.2	Q24	E	1501	1407.15	247.75	235.37	260.61	1394	1325.04	230.12	218.19	242.52	1.08
16UG	South Lakeland	12.0	Q13	B	1146	1135.55	234.39	221.02	248.37	1080	1067.81	221.23	208.23	234.83	1.06
33UH	South Norfolk	10.7	Q01	G	921	1214.82	176.08	164.89	187.83	851	1142.98	162.86	152.1	174.18	1.08
34UG	South Northamptonshire	6.6	Q25	E	593	881.30	156.28	143.95	169.38	561	829.97	147.85	135.86	160.61	1.06
38UD	South Oxfordshire	7.7	Q16	J	852	1459.37	135.60	126.64	145.01	812	1374.34	129.23	120.5	138.44	1.05
30UN	South Ribble	14.0	Q13	B	1720	1163.71	343.28	327.25	359.9	1528	1095.63	305.05	289.95	320.74	1.13
39UF	South Shropshire	15.5	Q26	F	420	445.50	218.96	198.52	240.94	396	419.08	206.69	186.83	228.08	1.06
40UD	South Somerset	13.7	Q22	K	1635	1722.15	220.50	209.94	231.46	1518	1621.34	204.79	194.62	215.36	1.08
41UF	South Staffordshire	11.7	Q26	F	760	1151.51	153.29	142.58	164.59	727	1083.43	146.77	136.3	157.84	1.05
00CL	South Tyneside	33.1	Q09	A	2365	1741.31	315.45	302.86	328.42	2203	1639.70	293.88	281.73	306.41	1.07
00MS	Southampton UA	23.7	Q17	J	3079	2675.28	267.31	257.95	276.92	2918	2519.31	253.35	244.24	262.71	1.06
00KF	Southend-On-Sea UA	21.7	Q03	G	1494	1919.27	180.79	171.74	190.2	1409	1807.66	170.49	161.71	179.64	1.06
00BE	Southwark	35.4	Q07	H	3181	3042.12	242.86	234.49	251.45	3016	2866.21	230.17	222.02	238.53	1.05
43UH	Spelthorne	10.4	Q19	J	572	1013.11	131.13	120.6	142.33	546	953.47	125.26	114.97	136.22	1.05
26UG	St. Albans	7.7	Q02	G	1007	1477.46	158.30	148.67	168.39	965	1391.51	151.69	142.27	161.57	1.04
42UF	St. Edmundsbury	11.5	Q01	G	998	1111.25	208.59	195.85	221.94	947	1046.11	198.01	185.6	211.04	1.05
00BZ	St. Helens	32.0	Q15	B	3116	1998.65	362.10	349.5	375.05	2921	1882.40	339.42	327.22	351.96	1.07
41UG	Stafford	12.9	Q26	F	803	1358.76	137.26	127.93	147.09	766	1278.40	131.06	121.94	140.68	1.05
41UH	Staffordshire Moorlands	16.5	Q26	F	668	1029.16	150.75	139.54	162.63	640	968.06	144.61	133.62	156.26	1.04
26UH	Stevenage	15.6	Q02	G	1181	923.38	297.06	280.36	314.5	1118	870.47	280.94	264.71	297.9	1.06
00BS	Stockport	18.1	Q14	B	3195	3241.75	228.91	221.04	236.99	2984	3052.39	213.83	206.23	221.65	1.07
00EF	Stockton-On-Tees UA	26.3	Q10	A	3217	2091.48	357.25	345.01	369.81	3010	1970.53	334.12	322.29	346.27	1.07
00GL	Stoke-On-Trent UA	35.3	Q26	F	2485	2826.16	204.22	196.27	212.41	2367	2661.71	194.52	186.76	202.51	1.05
44UE	Stratford-On-Avon	8.8	Q28	F	1206	1227.57	228.18	215.48	241.43	1143	1154.79	216.50	204.13	229.43	1.06
23UF	Stroud	10.2	Q20	K	938	1222.30	178.24	167.01	190.02	889	1150.72	168.99	158.06	180.47	1.06
42UG	Suffolk Coastal	11.5	Q01	G	1074	1303.21	191.41	180.13	203.21	992	1226.70	176.88	166.05	188.24	1.08
00CM	Sunderland	34.2	Q09	A	5467	3283.69	386.68	376.5	397.07	5062	3092.16	358.08	348.28	368.08	1.08
43UJ	Surrey Heath	4.9	Q19	J	740	907.47	189.40	175.99	203.55	716	854.56	183.27	170.09	197.2	1.03

Admissions - 1998/99 to 2002/03					Head injuries, all ages, both sexes										
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N/A	ALL ENGLAND				571822	571822.00	232.26	231.66	232.86	538527	538527.00	218.73	218.15	219.32	
00BF	Sutton	13.3	Q08	H	1744	2118.46	191.20	182.33	200.39	1654	1995.61	181.29	172.66	190.24	1.05
29UM	Swale	20.9	Q18	J	1183	1398.22	196.51	185.47	208.03	1103	1317.49	183.12	172.48	194.26	1.07
00HX	Swindon UA	17.2	Q20	K	1536	2076.35	171.81	163.33	180.63	1449	1955.95	162.04	153.81	170.61	1.06
00BT	Tameside	29.8	Q14	B	3574	2466.83	336.50	325.56	347.72	3343	2324.13	314.62	304.05	325.47	1.07
41UK	Tamworth	19.7	Q26	F	634	859.19	171.38	158.3	185.26	602	809.93	162.58	149.85	176.1	1.05
43UK	Tandridge	8.3	Q19	J	660	892.13	171.82	158.96	185.45	610	839.95	158.85	146.49	171.97	1.08
40UE	Taunton Deane	16.3	Q22	K	1188	1159.91	237.88	224.55	251.8	1129	1091.79	226.19	213.19	239.78	1.05
20UH	Teesdale	16.4	Q10	A	211	268.74	182.36	158.58	208.69	196	252.73	169.63	146.71	195.12	1.08
18UH	Teignbridge	17.0	Q21	K	1380	1360.80	235.53	223.27	248.3	1303	1280.42	222.59	210.67	235.01	1.06
00GF	Telford and Wrekin UA	21.8	Q26	F	2152	1818.95	274.78	263.3	286.65	2025	1714.50	258.35	247.22	269.85	1.06
22UN	Tendring	23.1	Q03	G	906	1568.33	134.17	125.58	143.2	850	1475.46	126.01	117.68	134.78	1.07
24UN	Test Valley	8.7	Q17	J	817	1238.54	153.21	142.88	164.08	782	1166.37	146.65	136.55	157.3	1.04
23UG	Tewkesbury	10.1	Q20	K	756	853.61	205.70	191.29	220.9	726	803.41	197.66	183.54	212.57	1.04
29UN	Thanet	25.6	Q18	J	1508	1484.25	235.97	224.21	248.19	1417	1397.90	221.72	210.33	233.58	1.06
26UJ	Three Rivers	9.4	Q02	G	608	947.55	149.03	137.42	161.36	575	892.33	140.95	129.66	152.95	1.06
00KG	Thurrock UA	21.2	Q03	G	1109	1653.11	155.81	146.77	165.26	1036	1558.16	145.43	136.71	154.57	1.07
29UP	Tonbridge and Malling	9.6	Q18	J	1008	1213.72	192.89	181.17	205.18	953	1143.50	182.29	170.9	194.25	1.06
00HH	Torbay UA	23.7	Q21	K	1936	1482.55	303.30	289.93	317.11	1816	1394.91	284.76	271.82	298.17	1.07
18UK	Torridge	21.4	Q21	K	521	645.72	187.40	171.65	204.2	481	607.58	173.17	158.03	189.36	1.08
00BG	Tower Hamlets	45.9	Q06	H	2258	2511.69	208.80	200.27	217.59	2153	2369.80	198.72	190.42	207.3	1.05
00BU	Trafford	20.2	Q14	B	2172	2438.94	206.84	198.23	215.72	2069	2296.59	197.06	188.66	205.74	1.05
29UQ	Tunbridge Wells	10.5	Q18	J	1383	1197.07	268.33	254.38	282.86	1309	1127.50	253.94	240.37	268.08	1.06
35UF	Tynedale	15.5	Q09	A	631	648.81	225.88	208.6	244.22	582	610.42	208.55	191.95	226.2	1.08
22UQ	Uttlesford	6.7	Q03	G	576	773.79	172.89	159.06	187.6	552	728.61	165.71	152.18	180.13	1.04
38UE	Vale of White Horse	6.9	Q16	J	794	1306.91	141.11	131.46	151.27	758	1230.69	134.72	125.3	144.66	1.05
13UH	Vale Royal	17.1	Q15	B	1424	1364.24	242.43	230	255.36	1341	1284.73	228.31	216.26	240.87	1.06
00DB	Wakefield	29.1	Q12	D	4207	3577.20	273.15	264.96	281.53	4016	3368.83	260.75	252.75	268.95	1.05
00CU	Walsall	29.4	Q27	F	3387	2942.16	267.37	258.44	276.53	3202	2772.93	252.58	243.91	261.48	1.06
00BH	Waltham Forest	30.2	Q06	H	2102	2704.23	180.53	172.9	188.42	1997	2548.95	171.37	163.93	179.05	1.05
00BJ	Wandsworth	20.9	Q08	H	2540	3212.90	183.61	176.54	190.9	2445	3021.43	177.00	170.06	184.16	1.04
35UG	Wansbeck	30.5	Q09	A	829	685.53	280.87	262.07	300.66	779	645.22	264.09	245.87	283.3	1.06
00EU	Warrington UA	19.4	Q15	B	3915	2172.53	418.54	405.53	431.86	3698	2046.22	395.30	382.66	408.25	1.06

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N/A	ALL ENGLAND				571822	571822.00	232.26	231.66	232.86	538527	538527.00	218.73	218.15	219.32	
44UF	Warwick	12.6 Q28	F		1746	1437.21	282.16	269.08	295.71	1646	1352.41	266.22	253.51	279.4	1.06
26UK	Watford	14.5 Q02	G		612	946.87	150.12	138.46	162.5	586	892.00	143.70	132.3	155.82	1.04
42UH	Waveney	21.8 Q01	G		1170	1276.20	212.93	200.9	225.49	1080	1201.50	196.61	185.06	208.7	1.08
43UL	Waverley	6.2 Q19	J		1239	1334.50	215.64	203.79	227.99	1187	1256.28	206.67	195.08	218.77	1.04
21UH	Wealden	9.4 Q19	J		1230	1582.47	180.53	170.58	190.9	1162	1489.48	170.64	160.97	180.74	1.06
20UJ	Wear Valley	32.6 Q10	A		605	694.50	202.33	186.52	219.11	562	653.72	188.04	172.82	204.25	1.08
34UH	Wellingborough	17.5 Q25	E		627	822.54	177.04	163.45	191.46	575	774.93	162.30	149.3	176.13	1.09
26UL	Welwyn Hatfield	12.6 Q02	G		916	1139.05	186.78	174.88	199.27	876	1072.78	178.61	166.98	190.84	1.05
00MB	West Berkshire UA	7.9 Q16	J		909	1647.73	128.13	119.93	136.74	870	1551.87	122.63	114.61	131.05	1.04
18UL	West Devon	16.3 Q21	K		492	538.19	212.32	193.97	231.94	459	506.30	198.30	180.57	217.3	1.07
19UH	West Dorset	13.3 Q22	K		1019	1032.92	229.13	215.27	243.64	938	971.59	211.17	197.87	225.13	1.09
30UP	West Lancashire	21.1 Q13	B		1470	1227.35	278.18	264.14	292.77	1387	1155.81	262.49	248.85	276.67	1.06
32UH	West Lindsey	17.7 Q24	E		1073	873.40	285.34	268.52	302.94	1020	822.05	271.41	255	288.59	1.05
38UF	West Oxfordshire	6.3 Q16	J		664	1085.60	142.06	131.46	153.29	630	1022.28	134.80	124.48	145.75	1.05
40UF	West Somerset	22.1 Q22	K		285	389.94	169.75	150.61	190.65	271	366.63	161.68	143	182.12	1.05
46UF	West Wiltshire	12.0 Q20	K		1010	1322.88	177.33	166.56	188.61	952	1245.84	167.14	156.69	178.11	1.06
00BK	Westminster	31.7 Q04	H		1947	2298.79	196.71	188.07	205.65	1845	2159.41	186.89	178.46	195.61	1.06
19UJ	Weymouth and Portland	21.2 Q22	K		896	726.87	286.30	267.86	305.68	825	684.05	263.81	246.11	282.44	1.09
00BW	Wigan	29.3 Q14	B		3780	3423.43	256.45	248.34	264.76	3526	3224.14	239.21	231.38	247.24	1.07
24UP	Winchester	7.0 Q17	J		1081	1245.35	201.61	189.77	213.99	928	1172.11	173.18	162.21	184.69	1.16
00ME	Windsor and Maidenhead UA	8.2 Q16	J		1063	1518.49	162.59	152.96	172.66	996	1429.54	152.40	143.08	162.16	1.07
00CB	Wirral	30.1 Q15	B		5624	3630.18	359.82	350.48	369.35	5334	3419.00	341.25	332.15	350.53	1.05
43UM	Woking	7.3 Q19	J		731	1034.50	164.12	152.44	176.46	686	974.40	153.99	142.68	165.96	1.07
00MF	Wokingham UA	5.1 Q16	J		887	1699.90	121.19	113.35	129.44	842	1601.08	115.03	107.39	123.07	1.05
00CW	Wolverhampton	32.2 Q27	F		2447	2826.68	201.06	193.17	209.19	2327	2663.35	191.11	183.42	199.04	1.05
47UE	Worcester	17.7 Q28	F		1039	1088.52	221.69	208.41	235.59	983	1025.38	209.69	196.79	223.22	1.06
45UH	Worthing	15.7 Q19	J		1091	1173.95	215.85	203.23	229.04	1046	1104.88	207.08	194.72	220.02	1.04
47UF	Wychavon	11.3 Q28	F		900	1238.37	168.80	157.95	180.19	850	1165.34	159.55	149	170.64	1.06
11UF	Wycombe	9.7 Q16	J		1681	1869.70	208.82	198.95	219.04	1587	1761.35	197.08	187.5	207.02	1.06
30UQ	Wyre	17.8 Q13	B		1035	1171.34	205.22	192.91	218.12	929	1102.21	184.36	172.69	196.61	1.11
47UG	Wyre Forest	17.8 Q28	F		853	1087.99	182.09	170.08	194.74	812	1023.98	173.45	161.73	185.81	1.05
00FF	York UA	14.5 Q11	D		1763	2079.65	196.89	187.81	206.3	1677	1956.78	187.46	178.59	196.65	1.05

Head injuries :

**Spell-based admission rate per 100 000 population for each local authority
sorted from highest to lowest, both sexes**

Local authority	95% Confidence interval		indirect admission rate per 100,000
Preston	488.87	522.93	505.68
Oldham	479.62	505.84	492.60
Middlesbrough UA	460.47	492.31	476.19
Burnley	424.95	463.89	444.10
Lincoln	412.81	451.96	432.05
Warrington UA	405.53	431.86	418.54
Liverpool	409.70	426.51	418.04
Knowsley	381.07	409.54	395.11
Portsmouth UA	376.56	401.31	388.79
Penwith	366.37	411.36	388.38
Sunderland	376.50	397.07	386.68
Carlisle	369.00	403.93	386.17
Blackburn with Darwen UA	370.63	399.31	384.77
Hartlepool UA	365.83	402.51	383.84
Kerrier	363.00	399.47	380.91
Pendle	359.33	395.48	377.08
Restormel	354.90	390.40	372.34
Derwentside	353.81	391.14	372.13
Barrow-In-Furness	351.50	392.09	371.38
Halton UA	354.52	385.71	369.87
Easington	346.37	381.43	363.58
Bury	351.16	376.23	363.53
Hyndburn	345.04	382.15	363.24
Barnsley	350.97	373.88	362.29
St. Helens	349.50	375.05	362.10
Wirral	350.48	369.35	359.82
Carrick	339.82	376.02	357.57
Stockton-On-Tees UA	345.01	369.81	357.25
Chorley	336.94	370.70	353.52
Gateshead	337.36	361.42	349.23
South Ribble	327.25	359.90	343.28
North East Lincolnshire UA	330.39	356.41	343.22
Havant	324.93	355.42	339.92
Redcar and Cleveland UA	324.13	351.96	337.83
Rochdale	325.91	348.33	336.98
Rossendale	317.02	357.30	336.71
Tameside	325.56	347.72	336.50
Hastings	317.19	351.94	334.22
Salford	323.29	344.88	333.96
Copeland	311.58	350.90	330.80
Nottingham UA	318.08	336.76	327.32
Rotherham	311.71	331.92	321.69
Darlington UA	302.04	333.98	317.71
South Tyneside	302.86	328.42	315.45
Manchester	308.09	322.76	315.36
Peterborough UA	301.82	326.59	314.03
Doncaster	303.05	321.57	312.20
Shrewsbury and Atcham	293.25	325.32	308.98
Chester-Le-Street	287.22	330.42	308.25
Newcastle upon Tyne	296.91	315.40	306.05
Kingston upon Hull, City of UA	296.60	315.67	306.02
Torbay UA	289.93	317.11	303.30
Derby UA	292.46	312.35	302.28
Mansfield	285.37	316.46	300.61
Scarborough	285.84	315.91	300.59

Head injuries :
Spell-based admission rate per 100 000 population for each local authority
sorted from highest to lowest, both sexes

Local authority	95% Confidence interval		indirect admission rate per 100,000
Stevenage	280.36	314.50	297.06
Berwick-upon-Tweed	266.81	328.57	296.49
Sefton	284.54	302.63	293.48
North Tyneside	282.51	304.64	293.42
Gloucester	273.41	301.92	287.40
Calderdale	276.30	297.90	286.95
Richmondshire	265.35	309.09	286.60
Weymouth and Portland	267.86	305.68	286.30
West Lindsey	268.52	302.94	285.34
Ipswich	271.93	299.18	285.31
Allerdale	269.74	301.15	285.12
Warwick	269.08	295.71	282.16
Blackpool UA	269.20	294.21	281.50
Ashfield	267.44	295.89	281.39
Wansbeck	262.07	300.66	280.87
Corby	259.24	300.10	279.11
Durham	263.26	294.69	278.65
West Lancashire	264.14	292.77	278.18
Telford and Wrekin UA	263.30	286.65	274.78
Cambridge	260.78	287.50	273.89
Alnwick	247.31	301.38	273.35
Wakefield	264.96	281.53	273.15
Exeter	259.79	286.99	273.14
Lancaster	260.40	285.18	272.58
North Kesteven	256.83	287.82	271.99
Leeds	264.22	274.88	269.51
Leicester UA	260.79	277.31	268.95
Tunbridge Wells	254.38	282.86	268.33
Walsall	258.44	276.53	267.37
Southampton UA	257.95	276.92	267.31
North Cornwall	251.26	284.10	267.30
Ellesmere Port and Neston	248.90	281.17	264.67
Ribble Valley	244.48	284.59	263.97
Blyth Valley	247.97	280.29	263.76
Cheltenham	246.03	272.99	259.25
Bassetlaw	245.30	273.26	259.00
Norwich	245.74	270.91	258.09
Bolton	248.93	266.38	257.55
Wigan	248.34	264.76	256.45
Crewe and Nantwich	242.22	269.25	255.47
North Lincolnshire UA	243.80	266.94	255.18
Hackney	245.16	264.27	254.58
Birmingham	249.20	257.86	253.50
Herefordshire, County of UA	242.35	264.04	253.02
Cotswold	236.96	268.81	252.51
Plymouth UA	243.25	261.13	252.07
East Lindsey	238.26	263.62	250.70
Sedgefield	234.65	265.06	249.51
Bradford	242.87	255.41	249.08
Boston	229.32	267.27	247.75
South Kesteven	235.37	260.61	247.75
Chesterfield	233.60	261.91	247.45
Poole UA	233.30	256.88	244.88
Southwark	234.49	251.45	242.86
Harrogate	231.38	254.03	242.51

Head injuries :

**Spell-based admission rate per 100 000 population for each local authority
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Local authority	95% Confidence interval		indirect admission rate per 100,000
Vale Royal	230.00	255.36	242.43
Mid Devon	226.01	259.68	242.41
Newark and Sherwood	227.18	254.25	240.43
Bolsover	224.30	257.22	240.34
Rugby	225.79	255.40	240.25
Islington	229.39	249.56	239.32
Macclesfield	226.99	249.64	238.11
Taunton Deane	224.55	251.80	237.88
Kings Lynn and West Norfolk	226.09	249.96	237.80
Eden	217.20	256.91	236.43
Harlow	221.25	251.96	236.23
Hambleton	221.18	251.56	236.01
Thanet	224.21	248.19	235.97
Teignbridge	223.27	248.30	235.53
Gedling	222.18	248.23	234.93
South Lakeland	221.02	248.37	234.39
Sheffield	228.34	240.09	234.16
Chester	221.46	246.49	233.72
Brighton and Hove UA	224.41	241.21	232.69
Hammersmith and Fulham	221.85	242.55	232.03
North Shropshire	214.13	250.41	231.74
Bournemouth UA	221.42	242.11	231.59
Lambeth	223.32	239.29	231.20
Great Yarmouth	217.11	245.64	231.05
Erewash	218.02	243.92	230.70
Camden	221.00	239.80	230.26
Salisbury	217.03	242.25	229.38
West Dorset	215.27	243.64	229.13
Stockport	221.04	236.99	228.91
Stratford-On-Avon	215.48	241.43	228.18
Coventry	219.48	234.41	226.85
Sandwell	218.81	234.42	226.51
Tynedale	208.60	244.22	225.88
Castle Morpeth	205.84	244.96	224.77
North Devon	210.52	239.30	224.56
Basingstoke and Deane	213.62	235.23	224.23
North Dorset	207.27	241.28	223.79
Fareham	210.97	236.99	223.70
Rother	209.69	238.25	223.63
Broxtowe	209.82	235.60	222.43
Worcester	208.41	235.59	221.69
Craven	203.52	240.33	221.36
South Somerset	209.94	231.46	220.50
Rushmoor	206.58	233.79	219.87
Shepway	206.45	233.20	219.52
Eastbourne	205.73	232.83	218.97
South Shropshire	198.52	240.94	218.96
East Devon	206.17	229.66	217.68
South Holland	202.49	233.37	217.52
Redditch	203.11	232.54	217.45
Bath and North East Somerset UA	206.58	226.59	216.41
Lewisham	208.36	224.38	216.26
Worthing	203.23	229.04	215.85
Waverley	203.79	227.99	215.64
Kirklees	208.94	221.97	215.38

Head injuries :
Spell-based admission rate per 100 000 population for each local authority
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Local authority	95% Confidence interval		indirect admission rate per 100,000
Guildford	203.66	226.40	214.80
Slough UA	202.39	225.58	213.75
North Hertfordshire	201.57	225.59	213.33
Waveney	200.90	225.49	212.93
Purbeck	193.75	233.35	212.86
South Cambridgeshire	201.57	224.49	212.80
Fenland	198.80	227.52	212.80
West Devon	193.97	231.94	212.32
Gosport	197.80	226.97	212.01
East Hampshire	198.13	222.95	210.26
Dover	197.68	222.86	209.98
High Peak	195.81	223.31	209.23
Wycombe	198.95	219.04	208.82
Tower Hamlets	200.27	217.59	208.80
St. Edmundsbury	195.85	221.94	208.59
Canterbury	197.32	218.91	207.91
Chichester	195.40	220.32	207.58
Trafford	198.23	215.72	206.84
Tewkesbury	191.29	220.90	205.70
Northampton	196.71	214.59	205.50
Wyre	192.91	218.12	205.22
Stoke-On-Trent UA	196.27	212.41	204.22
Bridgnorth	186.63	222.44	203.95
Blaby	190.65	217.83	203.90
Amber Valley	192.10	215.88	203.73
Aylesbury Vale	192.95	212.66	202.62
Wear Valley	186.52	219.11	202.33
Winchester	189.77	213.99	201.61
Wolverhampton	193.17	209.19	201.06
North East Derbyshire	187.79	213.94	200.55
South Hams	186.31	214.60	200.08
Medway UA	191.68	207.44	199.44
Oswestry	179.00	220.83	199.10
New Forest	189.42	208.83	198.95
North Norfolk	186.25	212.02	198.82
Derbyshire Dales	183.22	213.92	198.13
Fylde	183.33	212.92	197.71
Hillingdon	189.71	205.34	197.41
Arun	187.01	207.96	197.27
York UA	187.81	206.30	196.89
Westminster	188.07	205.65	196.71
East Staffordshire	184.55	209.12	196.55
Ashford	184.44	209.19	196.52
Swale	185.47	208.03	196.51
Rutland UA	175.61	218.87	196.35
Congleton	182.78	209.38	195.74
East Cambridgeshire	179.90	209.23	194.15
Oadby and Wigston	177.90	211.32	194.08
Dudley	186.77	201.01	193.79
Adur	177.51	209.64	193.07
Tonbridge and Malling	181.17	205.18	192.89
Sedgemoor	180.94	205.17	192.77
Bristol, City of UA	186.27	198.40	192.27
Breckland	181.07	203.72	192.14
Newham	184.60	199.52	191.95

Head injuries :

**Spell-based admission rate per 100 000 population for each local authority
sorted from highest to lowest, both sexes**

Local authority	95% Confidence interval		indirect admission rate per 100,000
Solihull	183.10	200.65	191.73
Suffolk Coastal	180.13	203.21	191.41
Sutton	182.33	200.39	191.20
Ryedale	173.15	208.49	190.21
Rushcliffe	178.34	202.42	190.09
Surrey Heath	175.99	203.55	189.40
Dacorum	178.47	199.31	188.68
Huntingdonshire	179.04	198.57	188.62
Selby	174.28	202.67	188.08
Melton	170.06	206.07	187.42
Torridge	171.65	204.20	187.40
Reigate and Banstead	176.68	198.42	187.31
Charnwood	177.52	196.95	187.05
Nuneaton and Bedworth	175.97	198.37	186.92
Welwyn Hatfield	174.88	199.27	186.78
South Bucks	171.11	202.61	186.36
Caradon	172.29	199.97	185.74
Malvern Hills	171.68	200.62	185.73
East Riding of Yorkshire UA	178.82	192.70	185.66
North West Leicestershire	172.67	199.24	185.60
Chiltern	171.44	197.23	184.00
Luton UA	175.29	192.48	183.74
Wandsworth	176.54	190.90	183.61
Cherwell	173.07	193.97	183.30
Teesdale	158.58	208.69	182.36
Wyre Forest	170.08	194.74	182.09
Isle of Wight UA	171.68	192.72	181.98
South Derbyshire	168.82	195.66	181.87
Hounslow	173.21	189.15	181.05
Ealing	174.35	187.78	180.97
Sevenoaks	169.66	192.75	180.93
Southend-On-Sea UA	171.74	190.20	180.79
Greenwich	172.91	188.70	180.68
Forest of Dean	167.39	194.53	180.58
Waltham Forest	172.90	188.42	180.53
Wealden	170.58	190.90	180.53
Kettering	167.29	193.75	180.16
Christchurch	162.00	197.98	179.32
Stroud	167.01	190.02	178.24
West Wiltshire	166.56	188.61	177.33
Wellingborough	163.45	191.46	177.04
Mole Valley	163.83	190.58	176.82
South Norfolk	164.89	187.83	176.08
Broadland	164.77	186.89	175.57
Oxford	165.96	185.13	175.35
Babergh	161.94	188.14	174.67
Hart	161.22	187.17	173.83
Uttlesford	159.06	187.60	172.89
Reading UA	163.52	182.38	172.76
Haringey	165.07	180.36	172.59
Mid Suffolk	159.72	185.16	172.09
Tandridge	158.96	185.45	171.82
Swindon UA	163.33	180.63	171.81
Tamworth	158.30	185.26	171.38
Barking and Dagenham	162.65	180.29	171.30

Head injuries :
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Local authority	95% Confidence interval		indirect admission rate per 100,000
Eastleigh	160.30	182.03	170.91
Lewes	158.63	182.99	170.49
Basildon	161.09	179.04	169.89
Kennet	156.89	183.58	169.84
West Somerset	150.61	190.65	169.75
Daventry	156.11	184.05	169.65
Gravesham	158.02	181.83	169.61
Milton Keynes UA	161.42	177.14	169.14
Forest Heath	154.92	184.11	169.05
Wychavon	157.95	180.19	168.80
Epsom and Ewell	154.92	183.13	168.58
Mendip	157.20	180.00	168.31
North Somerset UA	159.01	175.86	167.27
Dartford	153.85	178.54	165.85
East Dorset	153.30	178.85	165.71
South Bedfordshire	154.17	175.84	164.74
South Gloucestershire UA	157.45	172.10	164.65
Bromsgrove	152.44	177.31	164.52
Hinckley and Bosworth	153.17	176.26	164.41
Woking	152.44	176.46	164.12
Kingston upon Thames	154.75	173.10	163.73
East Hertfordshire	153.67	173.78	163.49
Bracknell Forest UA	152.18	173.60	162.62
Windsor and Maidenhead UA	152.96	172.66	162.59
Merton	154.07	170.30	162.04
Bromley	154.35	167.41	160.78
Kensington and Chelsea	151.90	170.02	160.77
Epping Forest	150.00	170.66	160.08
Harborough	147.19	173.46	159.92
Hertsmere	148.45	171.52	159.67
St. Albans	148.67	168.39	158.30
Maidstone	147.33	166.29	156.60
South Northamptonshire	143.95	169.38	156.28
Thurrock UA	146.77	165.26	155.81
Newcastle-under-Lyme	145.82	165.96	155.65
Maldon	140.98	170.34	155.14
North Warwickshire	140.56	169.26	154.41
Crawley	143.74	165.63	154.39
Castle Point	141.72	165.89	153.45
South Staffordshire	142.58	164.59	153.29
Test Valley	142.88	164.08	153.21
Richmond upon Thames	144.76	161.35	152.88
Braintree	142.43	161.58	151.78
North Wiltshire	141.67	161.29	151.24
Chelmsford	142.43	159.92	150.99
Broxbourne	139.33	163.06	150.85
Staffordshire Moorlands	139.54	162.63	150.75
Watford	138.46	162.50	150.12
Mid Bedfordshire	139.57	159.48	149.27
Three Rivers	137.42	161.36	149.03
Croydon	142.56	154.21	148.30
Bedford	139.60	157.37	148.29
East Northamptonshire	134.70	159.57	146.74
Lichfield	135.56	158.36	146.63
Mid Sussex	137.24	156.38	146.58

Head injuries :

**Spell-based admission rate per 100 000 population for each local authority
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Local authority	95% Confidence interval		indirect admission rate per 100,000
Enfield	138.95	151.59	145.16
West Oxfordshire	131.46	153.29	142.06
Bexley	134.33	148.56	141.31
Cannock Chase	130.44	152.60	141.20
Vale of White Horse	131.46	151.27	141.11
Redbridge	133.44	146.76	139.98
Havering	132.15	146.19	139.04
Barnet	133.27	144.78	138.93
Horsham	128.81	147.90	138.10
Stafford	127.93	147.09	137.26
South Oxfordshire	126.64	145.01	135.60
Tendring	125.58	143.20	134.17
Elmbridge	124.92	143.52	133.98
Rochford	121.51	145.06	132.89
Brent	126.42	138.72	132.46
Spelthorne	120.60	142.33	131.13
Colchester	120.40	136.37	128.20
West Berkshire UA	119.93	136.74	128.13
Wokingham UA	113.35	129.44	121.19
Runnymede	106.21	127.95	116.70
Brentwood	102.94	126.31	114.18
Harrow	96.58	108.87	102.59

Head injuries :

Person-based admission rate per 100 000 population for each local authority
sorted from highest to lowest, both sexes

Local authority	95% Confidence interval		indirect admission rate per 100,000
Oldham	444.81	470.07	457.31
Middlesborough UA	437.51	468.55	452.83
Preston	428.29	460.20	444.03
Burnley	389.75	427.07	408.09
Lincoln	381.71	419.40	400.22
Warrington UA	382.66	408.25	395.30
Liverpool	383.29	399.56	391.36
Knowsley	356.40	383.94	369.98
Hartlepool UA	346.06	381.75	363.57
Penwith	338.91	382.26	360.10
Sunderland	348.28	368.08	358.08
Blackburn with Darwen UA	341.22	368.73	354.77
Barrow-In-Furness	335.14	374.80	354.55
Portsmouth UA	342.38	366.00	354.04
Derwentside	335.24	371.63	353.08
Kerrier	335.20	370.29	352.42
Carlisle	333.92	367.21	350.27
Pendle	330.74	365.45	347.77
Halton UA	329.82	359.92	344.62
Easington	326.81	360.89	343.53
Restormel	325.82	359.89	342.54
Wirral	332.15	350.53	341.25
Hyndburn	322.59	358.49	340.19
Barnsley	329.07	351.27	340.03
St. Helens	327.22	351.96	339.42
Bury	326.28	350.47	338.21
Stockton-On-Tees UA	322.29	346.27	334.12
Carrick	315.38	350.32	332.50
Gateshead	317.13	340.48	328.65
Redcar and Cleveland UA	312.42	339.76	325.87
North East Lincolnshire UA	311.36	336.63	323.81
Salford	306.37	327.40	316.75
Havant	300.42	329.78	314.85
Tameside	304.05	325.47	314.62
Rochdale	303.92	325.57	314.60
Chorley	298.68	330.54	314.31
Nottingham UA	304.36	322.63	313.39
Rossendale	293.80	332.62	312.76
Hastings	295.15	328.70	311.59
Rotherham	295.36	315.03	305.08
South Ribble	289.95	320.74	305.05
Manchester	290.41	304.65	297.46
Darlington UA	282.15	313.07	297.31
Peterborough UA	283.58	307.60	295.41
Copeland	277.18	314.35	295.33
South Tyneside	281.73	306.41	293.88
Doncaster	284.12	302.06	292.99
Kingston upon Hull, City of UA	282.61	301.22	291.81
Newcastle upon Tyne	282.87	300.92	291.79
Shrewsbury and Atcham	275.46	306.58	290.71
Chester-Le-Street	267.99	309.79	288.32
Scarborough	271.97	301.34	286.37
Torbay UA	271.82	298.17	284.76
Derby UA	273.29	292.52	282.78
Stevenage	264.71	297.90	280.94

Head injuries :

Person-based admission rate per 100 000 population for each local authority
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Local authority	95% Confidence interval		indirect admission rate per 100,000
North Tyneside	267.37	288.92	277.99
Mansfield	263.04	292.93	277.69
Sefton	266.17	283.68	274.82
Calderdale	262.33	283.38	272.70
West Lindsey	255.00	288.59	271.41
Richmondshire	250.15	292.68	270.79
Berwick-upon-Tweed	239.44	298.22	267.63
Gloucester	252.86	280.29	266.31
Warwick	253.51	279.40	266.22
Durham	250.52	281.22	265.54
Ashfield	251.62	279.24	265.16
Ipswich	251.87	278.13	264.75
Wansbeck	245.87	283.30	264.09
Weymouth and Portland	246.11	282.44	263.81
West Lancashire	248.85	276.67	262.49
Cambridge	249.01	275.15	261.84
Wakefield	252.75	268.95	260.75
Corby	239.57	278.90	258.68
Telford and Wrekin UA	247.22	269.85	258.35
Allerdale	242.98	272.86	257.60
Leeds	251.95	262.37	257.12
Exeter	244.16	270.57	257.11
North Kesteven	242.26	272.40	257.00
Alnwick	231.47	283.93	256.70
Blackpool UA	244.49	268.37	256.22
Tunbridge Wells	240.37	268.08	253.94
Southampton UA	244.24	262.71	253.35
Walsall	243.91	261.48	252.58
Lancaster	239.95	263.76	251.64
Leicester UA	243.65	259.62	251.54
Ellesmere Port and Neston	235.19	266.60	250.52
Cheltenham	233.22	259.51	246.10
Ribble Valley	226.32	265.00	245.09
Blyth Valley	229.60	260.75	244.80
North Cornwall	229.12	260.56	244.46
North Lincolnshire UA	232.77	255.40	243.89
Bassetlaw	230.51	257.65	243.80
Birmingham	236.41	244.84	240.60
Crewe and Nantwich	227.56	253.79	240.41
Norwich	227.59	251.84	239.48
Wigan	231.38	247.24	239.21
Plymouth UA	230.52	247.94	239.11
Boston	220.56	257.84	238.66
Bolton	230.26	247.05	238.54
Hackney	228.08	246.51	237.16
Cotswold	221.46	252.31	236.51
Bradford	229.67	241.87	235.71
Herefordshire, County of UA	224.80	245.72	235.09
Poole UA	222.36	245.41	233.67
Sedgefield	218.38	247.76	232.72
Chesterfield	218.81	246.25	232.22
East Lindsey	219.93	244.35	231.90
Southwark	222.02	238.53	230.17
South Kesteven	218.19	242.52	230.12
Vale Royal	216.26	240.87	228.31

Head injuries :

Person-based admission rate per 100 000 population for each local authority
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Local authority	95% Confidence interval		indirect admission rate per 100,000
Newark and Sherwood	215.10	241.47	228.00
Rugby	212.66	241.43	226.70
Harrogate	215.82	237.73	226.58
Taunton Deane	213.19	239.78	226.19
Bolsover	209.61	241.48	225.12
Islington	215.27	234.83	224.89
Brighton and Hove UA	216.23	232.74	224.37
Kings Lynn and West Norfolk	212.64	235.81	224.00
Macclesfield	213.14	235.11	223.92
Mid Devon	207.92	240.28	223.66
Gedling	211.18	236.61	223.63
Chester	210.74	235.18	222.71
Teignbridge	210.67	235.01	222.59
Hambleton	208.02	237.53	222.40
Thanet	210.33	233.58	221.72
Harlow	207.05	236.78	221.54
South Lakeland	208.23	234.83	221.23
Bournemouth UA	211.07	231.30	221.01
Lambeth	212.49	228.08	220.18
Hammersmith and Fulham	210.05	230.22	219.96
Camden	210.78	229.16	219.82
Erewash	207.15	232.43	219.52
Eden	200.37	238.61	218.86
Salisbury	206.39	231.01	218.44
North Shropshire	201.34	236.58	218.43
Sheffield	212.77	224.11	218.39
Stratford-On-Avon	204.13	229.43	216.50
Coventry	208.61	223.16	215.80
Sandwell	206.52	221.69	214.00
Stockport	206.23	221.65	213.83
Great Yarmouth	199.27	226.66	212.64
Fareham	198.86	224.17	211.23
Castle Morpeth	192.87	230.84	211.22
West Dorset	197.87	225.13	211.17
Broxtowe	198.83	223.97	211.12
Rother	197.28	225.03	210.81
Worcester	196.79	223.22	209.69
North Devon	195.80	223.62	209.36
Basingstoke and Deane	198.66	219.52	208.90
Eastbourne	195.67	222.13	208.58
Tynedale	191.95	226.20	208.55
Rushmoor	194.31	220.72	207.20
Worthing	194.72	220.02	207.08
South Shropshire	186.83	228.08	206.69
Waverley	195.08	218.77	206.67
Lewisham	198.80	214.45	206.51
Redditch	191.94	220.57	205.88
Guildford	194.78	217.03	205.68
South Holland	190.86	220.90	205.47
Bath and North East Somerset UA	195.35	214.83	204.91
South Somerset	194.62	215.36	204.79
North Hertfordshire	193.13	216.66	204.64
South Cambridgeshire	193.46	215.92	204.46
Craven	186.89	222.25	204.00
Shepway	190.92	216.68	203.49

Head injuries :

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Local authority	95% Confidence interval		indirect admission rate per 100,000
North Dorset	187.06	219.45	202.77
Slough UA	191.05	213.59	202.08
Purbeck	183.23	221.82	201.83
Kirklees	194.61	207.19	200.82
Fenland	186.65	214.52	200.22
Canterbury	189.27	210.44	199.64
East Devon	187.78	210.25	198.78
Tower Hamlets	190.42	207.30	198.72
West Devon	180.57	217.30	198.30
St. Edmundsbury	185.60	211.04	198.01
Dover	186.06	210.51	198.00
Tewkesbury	183.54	212.57	197.66
Chichester	185.35	209.66	197.22
Wycombe	187.50	207.02	197.08
Trafford	188.66	205.74	197.06
Waveney	185.06	208.70	196.61
High Peak	183.54	210.20	196.53
East Hampshire	184.11	208.07	195.82
Aylesbury Vale	186.02	205.39	195.52
Stoke-On-Trent UA	186.76	202.51	194.52
Gosport	180.91	208.84	194.50
Blaby	181.06	207.58	193.98
Oswestry	173.80	215.06	193.61
Amber Valley	181.86	205.02	193.18
Bridgnorth	174.99	209.75	191.78
Wolverhampton	183.42	199.04	191.11
Northampton	182.62	199.87	191.10
North East Derbyshire	176.58	201.99	188.96
Arun	178.06	198.53	188.08
Wear Valley	172.82	204.25	188.04
Congleton	175.10	201.17	187.79
East Cambridgeshire	173.71	202.56	187.72
Ashford	175.87	200.06	187.67
York UA	178.59	196.65	187.46
Westminster	178.46	195.61	186.89
Medway UA	178.80	194.02	186.29
South Hams	172.94	200.26	186.22
Derbyshire Dales	171.49	201.26	185.93
Hillingdon	178.22	193.37	185.68
Rutland UA	164.91	206.93	185.03
East Staffordshire	173.08	196.90	184.70
Wyre	172.69	196.61	184.36
Rushcliffe	172.02	195.70	183.57
Newham	176.32	190.89	183.50
Solihull	175.03	192.20	183.46
Surrey Heath	170.09	197.20	183.27
Swale	172.48	194.26	183.12
Adur	167.47	198.74	182.60
Dudley	175.49	189.30	182.30
Tonbridge and Malling	170.90	194.25	182.29
Sedgemoor	170.63	194.19	182.13
Ryedale	165.38	199.99	182.07
Oadby and Wigston	166.38	198.76	182.03
Bristol, City of UA	175.90	187.69	181.72
Sutton	172.66	190.24	181.29

Head injuries :

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Local authority	95% Confidence interval		indirect admission rate per 100,000
New Forest	172.17	190.70	181.26
North Norfolk	168.57	193.16	180.55
Breckland	168.69	190.58	179.39
Welwyn Hatfield	166.98	190.84	178.61
Fylde	164.83	192.97	178.48
Selby	164.84	192.49	178.26
South Bucks	163.06	193.86	177.96
Huntingdonshire	168.46	187.43	177.76
East Riding of Yorkshire UA	170.89	184.48	177.59
Wandsworth	170.06	184.16	177.00
Luton UA	168.64	185.50	176.92
Suffolk Coastal	166.05	188.24	176.88
Dacorum	166.97	187.15	176.84
Reigate and Banstead	166.38	187.50	176.70
North West Leicestershire	163.61	189.51	176.20
Chiltern	163.90	189.14	176.18
Charnwood	166.72	185.57	175.96
Malvern Hills	162.18	190.36	175.85
Caradon	162.07	188.96	175.13
Melton	158.01	192.80	174.76
Cherwell	163.79	184.14	173.74
Nuneaton and Bedworth	162.93	184.51	173.47
Wyre Forest	161.73	185.81	173.45
Winchester	162.21	184.69	173.18
Torridge	158.03	189.36	173.17
Greenwich	165.56	181.01	173.16
Christchurch	154.90	190.16	171.85
Sevenoaks	160.57	183.05	171.53
Waltham Forest	163.93	179.05	171.37
Wealden	160.97	180.74	170.64
Southend-On-Sea UA	161.71	179.64	170.49
South Derbyshire	157.14	183.09	169.74
Forest of Dean	156.94	183.26	169.72
Teesdale	146.71	195.12	169.63
Ealing	162.80	175.80	169.21
Stroud	158.06	180.47	168.99
Isle of Wight UA	158.97	179.26	168.89
West Wiltshire	156.69	178.11	167.14
Hounslow	159.47	174.78	167.00
Kettering	154.37	179.84	166.74
Reading UA	157.60	176.12	166.67
Mole Valley	153.51	179.46	166.11
Oxford	156.93	175.59	166.06
Uttlesford	152.18	180.13	165.71
Babergh	152.38	177.83	164.74
Barking and Dagenham	156.27	173.54	164.74
Hart	152.45	177.73	164.73
Haringey	156.06	170.93	163.37
South Norfolk	152.10	174.18	162.86
Tamworth	149.85	176.10	162.58
Epsom and Ewell	148.95	176.64	162.35
Wellingborough	149.30	176.13	162.30
Lewes	150.58	174.35	162.14
Forest Heath	148.31	176.90	162.13
Swindon UA	153.81	170.61	162.04

Head injuries :
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Local authority	95% Confidence interval		indirect admission rate per 100,000
Broadland	151.46	172.72	161.83
West Somerset	143.00	182.12	161.68
Kenet	148.90	174.93	161.52
Gravesham	150.11	173.34	161.41
Eastleigh	150.37	171.43	160.64
Dartford	148.81	173.11	160.62
Daventry	147.10	174.25	160.25
Mid Suffolk	147.99	172.53	159.91
Milton Keynes UA	152.29	167.56	159.79
Wychavon	149.00	170.64	159.55
Bromsgrove	147.25	171.73	159.14
Tandridge	146.49	171.97	158.85
Basildon	149.99	167.33	158.48
North Somerset UA	150.41	166.81	158.45
East Dorset	146.06	171.04	158.18
South Gloucestershire UA	150.63	164.96	157.67
Kingston upon Thames	148.65	166.65	157.46
South Bedfordshire	147.06	168.25	157.39
Mendip	145.39	167.35	156.08
East Hertfordshire	146.30	165.93	155.88
Bromley	149.43	162.29	155.76
Hinckley and Bosworth	144.27	166.72	155.19
Merton	147.18	163.06	154.97
Bracknell Forest UA	144.39	165.27	154.57
Kensington and Chelsea	145.82	163.61	154.52
Harborough	141.70	167.51	154.20
Woking	142.68	165.96	153.99
Hertsmere	141.45	163.99	152.41
Windsor and Maidenhead UA	143.08	162.16	152.40
St. Albans	142.27	161.57	151.69
Newcastle-under-Lyme	140.75	160.56	150.41
Epping Forest	139.17	159.09	148.88
South Northamptonshire	135.86	160.61	147.85
Maidstone	138.68	157.10	147.67
Maldon	133.60	162.23	147.40
South Staffordshire	136.30	157.84	146.77
Test Valley	136.55	157.30	146.65
North Warwickshire	132.87	160.82	146.35
Crawley	135.26	156.52	145.60
Thurrock UA	136.71	154.57	145.43
Broxbourne	133.37	156.61	144.64
Staffordshire Moorlands	133.62	156.26	144.61
Richmond upon Thames	135.98	152.08	143.86
Bedford	135.19	152.69	143.74
Watford	132.30	155.82	143.70
Castle Point	132.25	155.65	143.59
Mid Bedfordshire	133.79	153.29	143.29
Braintree	133.87	152.46	142.94
Chelmsford	134.02	151.01	142.32
North Wiltshire	132.81	151.83	142.08
Three Rivers	129.66	152.95	140.95
Croydon	134.74	146.07	140.32
Mid Sussex	131.08	149.82	140.22
Enfield	133.13	145.50	139.21
Lichfield	127.83	150.01	138.59

Head injuries :

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Local authority	95% Confidence interval		indirect admission rate per 100,000
Cannock Chase	126.14	147.94	136.71
East Northamptonshire	124.66	148.63	136.25
Bexley	128.37	142.29	135.20
West Oxfordshire	124.48	145.75	134.80
Vale of White Horse	125.30	144.66	134.72
Havering	125.98	139.70	132.71
Barnet	126.94	138.18	132.47
Redbridge	125.82	138.76	132.17
Stafford	121.94	140.68	131.06
Horsham	121.66	140.24	130.70
Elmbridge	120.78	139.08	129.69
South Oxfordshire	120.50	138.44	129.23
Rochford	114.95	137.90	126.03
Tendring	117.68	134.78	126.01
Spelthorne	114.97	136.22	125.26
Brent	118.73	130.67	124.59
Colchester	115.58	131.25	123.23
West Berkshire UA	114.61	131.05	122.63
Wokingham UA	107.39	123.07	115.03
Runnymede	101.88	123.20	112.16
Brentwood	99.57	122.58	110.63
Harrow	89.91	101.78	95.71