



MESOTHELIOMA MORTALITY IN GREAT BRITAIN:
AN ANALYSIS BY GEOGRAPHICAL AREA

1981 – 2000



GEOGRAPHICAL DISTRIBUTION OF MESOTHELIOMA DEATHS IN
GREAT BRITAIN
(1981-2000)

Introduction

Annual numbers of deaths in Great Britain from mesothelioma compiled from the mesothelioma register maintained by HSE are published by HSE's Epidemiology and Medical Statistics Unit. This fact sheet has been produced to provide an update of the geographical distribution of mesothelioma mortality within Great Britain. It contains the latest statistics of mesothelioma deaths by Counties (including Local Authorities (LAs)) and Unitary Authorities (UAs) according to the local government structure implemented in Scotland and Wales in 1996 and in England between 1995 and 1998*. Statistics are presented for the 20-year period 1981-2000. This fact sheet supersedes similar ones produced in 1999 and 2002 containing mesothelioma statistics by LA district for the periods 1986-95 and 1986-2000 respectively. An earlier paper covering [mesothelioma deaths in Great Britain by LA district from 1976-1991](#) is still available. [Further information on how the mesothelioma register is compiled](#) is available on the HSE statistics web pages.

Geographical boundaries

Great Britain is divided into 11 Government Office Regions (GORs). According to the current local government structure, each GOR is subdivided into Unitary Authorities (UAs) and counties. Counties can be further subdivided into their constituent Local Authorities (LAs). Scotland and Wales consist entirely of UAs, and so there are no counties (and therefore no LAs) for these regions.

In this fact sheet the title *County* includes metropolitan counties and Inner and Outer London. The title of *Local Authority* includes both metropolitan and non-metropolitan districts and London Boroughs.

For further information regarding UK geography visit:

http://www.statistics.gov.uk/geography/admin_geog.asp

Measuring mortality

This fact sheet presents three tables of statistics by area in the form of Standardised Mortality Ratios (SMRs). An SMR is the ratio, expressed as a percentage, of an observed number of deaths to that expected based on age and sex specific rates from a standard population, in this case Great Britain. Thus an SMR of over 100 signifies a ratio where the observed number of deaths is greater than that expected and conversely a ratio of less than 100 signifies fewer observed deaths than expected.

There may be substantial statistical uncertainty associated with the SMR – particularly for areas with only a small number of deaths. [Confidence Intervals \(95%\)](#) give an indication of this uncertainty. SMRs for areas which have a lower confidence limit greater than 100 are judged to be statistically significant. A list of the LA and UA areas sorted in descending order of the lower confidence limit will therefore identify those which can most reliably said to be of highest risk at the top. Areas were sorted in this way in order to assign ranks to indicate the level of mesothelioma mortality. A full description of how SMRs are calculated and how the statistical uncertainty is expressed in terms of their statistical significance is given in [Appendix 2](#).

Interpretative issues

A consequence of the long latency period for mesothelioma is that asbestos exposure before the age of 40 usually determines the risk. The deaths during 1981-2000 presented in this analysis will generally relate to exposures during the 1970s and earlier decades. Therefore, analyses of mesothelioma by area should ideally be carried out according to the area in which asbestos exposure occurred. However, this is not possible in practice.

Area coding of mesothelioma deaths is carried out according to the address of residence recorded on each death certificate with a mention of mesothelioma. In most cases people will have lived near to their workplace, so the use of residential address to code the geographical area, rather than workplace address (where any asbestos exposure is most likely to have taken place), will have minimal impact on the results. However, death certificates only record the most recent address of the deceased and

this will result in some mesothelioma deaths being coded to areas other than those in which exposure took place. A case of mesothelioma caused by work in one area will only be assigned to the area category in this analysis if the individual still lived in that area when they died.

This analysis of SMRs based on last area of residence has the potential to dilute the observed difference between those areas. The potential for this dilution is considerable and will be strongest for those areas where there have been substantial migrations.

Areas with the highest SMRs will be those which are genuine sources of risk, but the value of the SMR will understate their true risk level relative to the rest of Great Britain risk level. Conversely, the SMRs of other areas will overstate the level of risk (if any) associated with these locations. The areas recording the lowest SMRs will be those areas not associated with asbestos exposure and which are unlikely to be the final area of residence for individuals with asbestos exposure.

Areas with low SMRs and which have the lowest values for the upper confidence limit can most reliably said to be of lowest risk. A list of the LA and UA areas sorted in ascending order of the upper confidence limit will therefore identify those which can most reliably said to be of lowest risk at the bottom.

Tables and figures

Main report

[Tables 1 & 2:](#)

Standardised Mortality Ratios (SMRs) with 95% confidence intervals and number of mesothelioma deaths observed and expected for the 20 highest risk and 20 lowest risk areas for males (Table 1) and females (Table 2), for the period 1981-2000.

Appendix 1

[Tables 3 & 4:](#)

Standardised mortality ratios (SMRs) with 95% confidence intervals and number of mesothelioma deaths, for males (Table 3) and females (Table 4), for the period 1981-2000 for countries, government office regions, counties (including LA

districts) and UAs in Great Britain. Ranks for mesothelioma risk within Great Britain (and for LAs, ranks within counties) are also included. Counties and UAs are presented in alphabetical order within GORs. Within counties, LAs are sorted in descending order according to their rank as determined from the lower 95% confidence limit (see interpretative issues).

Tables 5 & 6: Standardised mortality ratios (SMRs) and number of mesothelioma deaths, for males (Table 5) and females (Table 6) by 5-year time period (1981-85, 1986-90, 1991-95 and 1996-2000) for countries, government office regions, counties (including LA districts) and UAs in Great Britain. The results of the test for trend across the time periods are also presented. Counties and UAs are presented in alphabetical order within GORs. LAs are sorted in alphabetical order within Counties.

Figures 1 & 2: SMRs for males (Figure 1) and females (Figure 2) for the period 1981-2000 for UAs and LAs in Great Britain.

Figure 3: Highest and lowest 20% of SMRs for males and increasing and decreasing trends over time statistically significant at the 1% and 5% levels.

Results and discussion

Overall SMRs for males and females, 1981-2000

Males

[Table 1](#) gives the 20 unitary authorities and local authorities with highest risk for males (determined via the lower 95% confidence limit) and the 20 unitary authorities and local authorities with lowest risk (determined via the upper 95% confidence limit) for the period 1981-2000.

The link between mesothelioma and heavy asbestos exposures in the shipbuilding industry is well known. Asbestos was used widely as insulation in ships, and workers were exposed to it during fitting out and ship breaking activities. The figures reported here support this – areas with the highest mesothelioma excesses in males tend to be those which contain ports and dockyards. The area with the highest SMR – in excess of six times the average for Great Britain – was the UA of West Dunbartonshire in Scotland and this is likely to be primarily due to shipbuilding. Other Scottish port and dockyard areas with significantly elevated SMRs include the UAs of East Dunbartonshire, Fife, Glasgow City, Inverclyde, and Renfrewshire. Scotland as a whole has a significantly higher SMR than the average for Great Britain. This is primarily due to these shipbuilding areas being a higher proportion of industry in Scotland.

Areas in England with significantly elevated SMRs where the most likely source of exposure was shipbuilding include, in the North East: the UAs of Hartlepool, Middlesbrough, Redcar and Cleveland, and Stockton-on-Tees; all LAs in Tyne & Wear Metropolitan County, and Blythe Valley in Northumberland. In the North West: the LAs of Barrow-in-Furness in Cumbria, and Wirral in Merseyside. In the South East: the UAs of Isle of White, Medway, Portsmouth, and Southampton; the LAs of Fareham, Gosport, Havant, and New Forest in Hampshire. In the South West: the UA of Plymouth; the LA of Caradon in Cornwall & the Isle of Scilly. The regions of the North East and the South East have SMRs significantly higher than the average for Great Britain.

Other areas with significantly elevated SMRs for men include:

- Those areas with a large railway engineering industry which made extensive use of asbestos in the past. These areas include, in the North West: the LA of Crewe & Nantwich. In Yorkshire and the Humber: the LAs of Doncaster in South Yorkshire, and Leeds in West Yorkshire. In the East Midlands: the UA of Derby. In the South East: the LA of Eastleigh in Hampshire. In the South West: the UA of Swindon. Eastleigh had the highest SMR of 303; the lowest of these places was for Derby with an SMR of 135.
- A number of areas containing factories that used raw asbestos during production including, in the North East: the LA of Sunderland (also containing shipyards) in Tyne & Wear. In Yorkshire and the Humber: the LAs of Leeds (also containing large railway engineering sites), and Calderdale in West Yorkshire. In the East: the UA of Thurrock; the LA of Castle Point in Essex. In London: the LAs of Newham, and Tower Hamlets in Inner London and Barking & Dagenham, Bexley, Havering, and Redbridge in Outer London. In the South East: the LAs of Dartford, and Gravesham in Kent. Barking and Dagenham had the highest SMR of 294. Redbridge had the lowest SMR of 133.

Table 1: Highest and lowest risk UAs and LAs for males

Area	Deaths	Expected Deaths	SMR	95% Confidence Interval	
				Lower	Upper
<i>Top 20 areas with SMRs greater than 100</i>					
West Dunbartonshire UA	178	28	637	547	738
Barrow-In-Furness	140	24	593	499	699
Plymouth UA	298	75	396	352	443
Portsmouth UA	222	57	388	339	443
South Tyneside	187	52	357	308	412
North Tyneside	219	64	340	296	388
Southampton UA	207	64	325	282	373
Medway UA	189	64	298	257	343
Barking & Dagenham	147	50	294	248	346
Eastleigh	94	31	303	245	371
Renfrewshire UA	129	51	255	213	303
Newham	136	54	250	210	296
Newcastle-Upon-Tyne	202	85	238	206	273
Sunderland	205	87	237	206	272
Glasgow City UA	411	188	218	198	241
Havant	93	38	243	196	298
Crewe & Nantwich	81	34	240	191	299
Inverclyde UA	67	27	244	189	310
Hartlepool UA	67	28	241	187	306
Gosport	52	21	246	184	323
<i>Bottom 20 areas with SMRs less than 100</i>					
Barnsley	16	71	22	13	36
Worcester	4	25	16	4	41
Powys UA	12	45	26	14	46
Staffordshire Moorlands	8	32	25	11	49
Bridgend UA	12	42	29	15	50
Herefordshire, County Of UA	20	59	34	21	53
Newcastle-Under-Lyme	12	40	30	16	53
Cheltenham	10	34	29	14	54
Coventry	38	95	40	28	55
Scottish Borders UA	12	37	32	17	57
Monmouthshire UA	9	28	32	15	61
Perth And Kinross UA	17	45	38	22	61
Ryedale	5	19	27	9	62
Merthyr Tydfil UA	5	19	27	9	63
Stirling UA	8	25	33	14	64
Blaenau Gwent UA	8	24	33	14	65
Kensington & Chelsea	15	38	39	22	65
Torfaen UA	10	28	35	17	65
Aberdeenshire UA	27	61	44	29	65
Gwynedd UA	16	40	40	23	65

Females

[Table 2](#) gives the 20 UAs and LAs with highest risk for females (determined via the lower 95% confidence limit) and the 20 UAs and LAs with lowest risk (determined via the upper 95% confidence limit) for the period 1981-2000.

Table 2: Highest and lowest risk UAs and LAs for females

Area	Deaths	Expected Deaths	SMR	95% Confidence Interval	
				Lower	Upper
Top 20 areas with SMRs greater than 100					
Barking & Dagenham	53	8	649	486	849
Sunderland	79	14	575	455	716
Blackburn With Darwen UA	31	6	484	329	687
West Dunbartonshire UA	22	5	451	282	682
Leeds	115	35	328	271	394
Newham	29	8	348	233	499
South Ribble	17	5	367	214	588
Swale	16	5	297	170	482
Kirklees	41	18	226	162	306
Chorley	12	4	279	144	488
Nottingham UA	28	13	216	144	313
Southampton UA	22	10	221	139	335
Newcastle-Upon-Tyne	29	14	204	137	294
Glasgow City UA	60	34	178	136	229
Broxtowe	13	5	252	134	432
Bracknell Forest UA	9	3	262	120	498
Redbridge	21	11	191	118	291
Maldon	7	2	281	113	578
Havering	21	12	180	112	276
Milton Keynes UA	12	6	210	109	368
Bottom 20 areas with SMRs less than 100					
Brighton And Hove UA	2	14	14	2	50
Doncaster	3	14	22	5	64
Wealden	1	8	12	0	67
Cardiff UA	4	14	28	8	72
Rotherham	3	12	26	5	75
Leicester UA	4	13	31	9	81
Kingston Upon Hull, City Of UA	4	12	32	9	82
St Helens	2	9	23	3	83
Torfaen UA	0	4	0	0	83
Hinckley And Bosworth	0	4	0	0	84
Eastbourne	1	6	15	0	86
North Somerset UA	3	10	30	6	86
Sheffield	15	28	54	30	88
Waverley	1	6	16	0	89
Dumfries And Galloway UA	2	8	25	3	90
Birmingham	30	47	64	43	91
Canterbury	2	8	26	3	93
Manchester	10	20	50	24	93
Warwick	1	6	17	0	94
Barnsley	4	11	37	10	94

The number of mesothelioma deaths for women during this time period is more than six times lower than the number of male deaths. Female SMRs are therefore based on much lower expected numbers of deaths. Areas with significantly elevated SMRs for both males and females include, in the North East: the LAs of Newcastle-Upon-Tyne, Sunderland, and North Tyneside in Tyne & Wear. In Yorkshire and the Humber: the LA of Leeds in West Yorkshire. In the East: the LAs of Basildon, and Castle Point in Essex. In London: the LAs of Barking & Dagenham, Havering, Newham, Redbridge, and Tower Hamlets, where women worked alongside men in the asbestos factories. In the South East: the UAs of Southampton, and Bracknell Forest; the LA of Swale in Kent. In Scotland: the UAs of Glasgow City, and West Dunbartonshire. Other areas with significantly elevated female deaths include those associated with the manufacture of gas masks during the war. In the North West: the UA of Blackburn with Darwen; the LAs of Chorley, and South Ribble in Lancashire. In the East Midlands: the UA of Nottingham; the LA of Broxtowe in Nottinghamshire.

Analysis of trends in the SMR over time

In order to avoid unreliable results based on small numbers of cases, the [trend analysis](#) ([Tables 5](#) and [6](#)) is only presented for areas which would be expected to have at least 20 mesothelioma deaths over the 20-year period, or where 20 or more deaths were actually observed. This criterion reduces the number of groups substantially – especially for females where the numbers of cases are generally much lower.

The number of deaths in Great Britain due to mesothelioma has increased almost threefold over the 20-year period from 2,787 in 1981-85 to 7,476 in 1996-2000. Since in the SMR calculation, age standardisation was carried out within each time period, a constant SMR for a particular area over successive time periods indicates that the number of mesotheliomas for that area is increasing in line with the total for Great Britain. The trend test identifies those areas where the number of mesotheliomas is increasing significantly more or less rapidly than the total for Great Britain.

Males (see [Table 5](#) and [Figure 1](#)):

Areas showing an increasing trend over time statistically significant at the 1% level:

- Of 11 regions: the East, the West Midlands, and Yorkshire and the Humber.

- Of 42 Counties: Staffordshire, and the West Midlands metropolitan county in the West Midlands, and Dorset in the South West.
- Of 101 UAs: York in Yorkshire and the Humber, Stoke-on-Trent in the West Midlands, Blaenau Gwent, Monmouthshire, and Torfaen in Wales.
- Of 307 LAs: Durham in the North East, Fylde in the North West, Bolsover in the East Midlands, Newcastle-Under-Lyme, Stafford, Nuneaton and Bedworth, Coventry, and Walsall in the West Midlands; South Norfolk in the East; Bromley in London; Salisbury in the South West.

Areas showing a decreasing trend over time statistically significant at the 1% level:

- Of 11 Regions: the North East, the South East, and Scotland.
- Of 42 Counties: Inner London.
- Of 101 UAs: Stockton-on-Tees in North East, Medway, Portsmouth, and Southampton in Southeast, Plymouth, and Swindon in the South West, Glasgow City, and West Dunbartonshire in Scotland.
- Of 307 LAs: Barrow-in-Furness in the North West, the Derbyshire dales in the East Midlands; Newham, and Tower Hamlets in London; Crawley in the South East.

Of the 429 geographical areas for which the trend test was carried out, 39 (9%) showed a statistically significant trend over time at the 1% level. Most of the areas where the number of deaths has increased over time relatively more rapidly than the total for Great Britain are those of lower risk overall, and those where the number of deaths has increased less rapidly tend to be those of higher overall risk. [Figure 3](#)

These results are likely to be reflecting two different effects which have been mentioned previously in an [analysis of mesothelioma deaths by occupation](#). Firstly, elevated levels of mesothelioma mortality in areas which included specific high-risk industries in the past have tended to fall over time as other sources of exposure developed over a wider number of geographical areas. And, secondly, the effect of risks being diluted due to the migration of those exposed in industries which have now largely died out (for example, shipbuilding and asbestos insulating) into lower-risk areas will become increasingly strong over time.

Females (see [Table 6](#) and [Figure 2](#)):

Only 70 areas passed the minimum criteria for the significance test. The only regions to show a statistically significant trend at the 1% level were the South East, which increased over time, and London, which decreased over time. The County of Lincolnshire in the East Midlands was found to have an increasing trend; the UA of Blackburn with Darwen in the North West and the LAs of Newham, and Barking and Dagenham in London showed a decreasing trend. The reasons for these changes are likely to be similar to those described above. The three LAs with significantly decreasing trends all registered SMRs in the highest six in the country.

Appendix 1

Table 3 

Mesothelioma mortality in Great Britain: numbers of deaths and SMRs for males by area 1981-2000

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
GREAT BRITAIN	17531					
ENGLAND & WALES	15644	98	96	99		
ENGLAND	15034	100	98	101		
NORTH EAST	1485	183	174	192		
Darlington UA	41	127	91	173	67	
Hartlepool UA	67	241	187	306	19	
Middlesbrough UA	58	143	109	185	48	
Redcar And Cleveland UA	77	175	138	218	31	
Stockton-On-Tees UA	107	217	178	262	21	
Durham	106	66	54	80		
Derwentside	28	96	64	139	148	1
Chester-Le-Street	15	94	53	155	219	2
Easington	24	76	48	113	244	3
Durham	14	56	30	94	344	4
Sedgefield	14	50	27	83	360	5
Wear Valley	7	33	13	68	394	6
Teesdale	4	44	12	113	398	7
Northumberland	97	94	76	114		
Blyth Valley	35	156	109	217	49	1
Castle Morpeth	18	98	58	155	187	2
Wansbeck	16	75	43	122	281	3
Tynedale	14	70	38	117	312	4
Berwick Upon Tweed	8	77	33	152	335	5
Alnwick	6	54	20	117	378	6
Tyne And Wear (Met County)	932	263	247	281		
South Tyneside	187	357	308	412	5	1
North Tyneside	219	340	296	388	6	2
Newcastle-Upon-Tyne	202	238	206	273	13	3
Sunderland	205	237	206	272	14	4
Gateshead	119	181	150	217	27	5
NORTH WEST	2099	99	95	104		
Blackburn With Darwen UA	27	69	46	101	265	
Blackpool UA	56	99	75	129	99	
Halton UA	44	135	98	181	56	
Warrington UA	30	57	38	81	311	
Cheshire	236	113	99	128		
Crewe & Nantwich	81	240	191	299	17	1
Ellesmere Port & Neston	33	137	94	192	60	2
Vale Royal	45	126	92	169	66	3
Congleton	23	87	55	130	205	4
Macclesfield	31	61	42	87	294	5
Chester	23	59	38	89	315	6

Table 3 (cont'd)

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
Cumbria	248	149	131	168		
Barrow-In-Furness	140	593	499	699	2	1
Copeland	25	113	73	167	105	2
Carlisle	30	88	60	126	175	3
South Lakeland	32	85	58	120	188	4
Allerdale	16	49	28	79	357	5
Eden	5	30	10	70	402	6
Greater Manchester (Met County)	636	84	78	91		
Bolton	97	125	102	153	53	1
Tameside	70	107	84	136	82	2
Salford	68	93	72	118	108	3
Bury	48	91	67	120	135	4
Manchester	92	76	61	93	166	5
Wigan	67	76	59	97	179	6
Trafford	53	78	59	102	185	7
Rochdale	46	78	57	105	190	8
Stockport	55	61	46	80	257	9
Oldham	40	62	44	85	273	10
Lancashire	275	77	68	86		
Wyre	41	100	72	136	109	1
Preston	35	90	63	125	156	2
Rossendale	18	94	56	149	201	3
Chorley	23	84	53	126	216	4
Pendle	22	81	51	123	231	5
Ribble Valley	16	88	50	143	233	6
West Lancashire	24	76	49	113	242	7
Lancaster	30	67	45	95	271	8
Hyndburn	18	73	43	115	282	9
Fylde	19	66	40	104	302	10
South Ribble	18	60	36	95	325	11
Burnley	11	40	20	71	377	12
Merseyside (Met County)	547	124	114	135		
Wirral	197	184	159	212	24	1
Knowsley	62	149	114	191	41	2
Liverpool	153	108	91	126	69	3
Sefton	106	110	90	133	72	4
St Helens	29	53	36	76	327	5
YORKSHIRE AND THE HUMBER	1441	93	88	98		
East Riding Of Yorkshire UA	74	72	57	90	198	
Kingston Upon Hull, City Of UA	77	100	79	125	88	
North East Lincolnshire UA	43	86	62	116	158	
North Lincolnshire UA	46	94	69	125	128	
York UA	82	147	117	183	39	

Table 3 (cont'd)

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
North Yorkshire	122	65	54	77		
Selby	21	98	61	150	170	1
Scarborough	28	68	45	98	270	2
Harrogate	30	63	42	90	286	3
Craven	14	75	41	125	301	4
Hambleton	15	56	31	92	343	5
Richmondshire	9	66	30	126	346	6
Ryedale	5	27	9	62	404	7
South Yorkshire (Met County)	329	80	71	89		
Doncaster	124	136	113	162	42	1
Sheffield	142	82	69	97	126	2
Rotherham	47	62	45	82	269	3
Barnsley	16	22	13	36	396	4
West Yorkshire (Met County)	668	108	100	117		
Leeds	296	136	121	152	35	1
Calderdale	82	138	110	171	45	2
Kirklees	105	94	77	114	93	3
Bradford	107	81	66	97	137	4
Wakefield	78	82	65	103	143	5
EAST MIDLANDS	930	73	68	77		
Derby UA	95	135	109	165	47	
Leicester UA	46	57	42	76	290	
Nottingham UA	74	89	70	112	118	
Rutland UA	4	39	11	100	400	
Derbyshire	132	55	46	66		
Erewash	27	79	52	116	221	1
North East Derbyshire	19	57	35	90	330	2
Amber Valley	21	54	34	83	334	3
South Derbyshire	14	61	33	102	336	4
Chesterfield	17	50	29	81	349	5
High Peak	14	54	29	90	350	6
Bolsover	10	41	19	74	379	7
The Derbyshire Dales	10	40	19	74	380	8
Leicestershire	120	67	56	81		
Oadby And Wigston	14	84	46	141	261	1
Harborough	17	79	46	126	262	2
Melton	12	83	43	145	283	3
Blaby	17	68	39	108	306	4
North West Leicestershire	17	64	37	102	317	5
Charnwood	25	57	37	84	318	6
Hinckley And Bosworth	18	61	36	96	321	7

Table 3 (cont'd)

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
Lincolnshire	116	54	45	65		
Lincoln	17	67	39	108	307	1
South Holland	17	62	36	100	320	2
West Lindsey	16	60	34	97	331	3
South Kesteven	20	56	34	86	332	4
North Kesteven	16	55	31	89	342	5
East Lindsey	22	45	28	68	356	6
Boston	8	40	17	80	382	7
Northamptonshire	161	93	79	109		
Wellingborough	27	131	86	190	75	1
Corby	20	135	82	208	84	2
East Northamptonshire	23	107	68	160	133	3
Daventry	18	95	56	150	200	4
Northampton	37	72	51	100	230	5
Kettering	20	82	50	127	235	6
South Northamptonshire	16	76	43	123	280	7
Nottinghamshire	182	77	66	89		
Bassetlaw	35	103	72	143	111	1
Rushcliffe	29	91	61	131	165	2
Newark And Sherwood	30	89	60	126	174	3
Gedling	30	85	57	121	192	4
Broxtowe	28	82	54	118	209	5
Ashfield	16	46	27	75	362	6
Mansfield	14	44	24	73	365	7
WEST MIDLANDS	1032	63	59	67		
Herefordshire, County Of UA	20	34	21	53	375	
Stoke-On-Trent UA	45	57	42	77	288	
Telford And Wrekin UA	24	65	42	97	289	
Shropshire	47	51	37	67		
Oswestry	11	94	47	168	251	1
Shrewsbury And Atcham	17	56	33	90	338	2
South Shropshire	7	45	18	94	381	3
Bridgnorth	6	35	13	76	395	4
North Shropshire	6	33	12	72	397	5
Staffordshire	163	68	58	80		
Tamworth	24	152	98	227	57	1
East Staffordshire	32	103	71	146	116	2
Lichfield	24	89	57	132	194	3
Cannock Chase	21	86	53	131	215	4
Stafford	28	73	48	105	245	5
South Staffordshire	14	46	25	77	363	6
Newcastle-Under-Lyme	12	30	16	53	387	7
Staffordshire Moorlands	8	25	11	49	399	8

Table 3 (cont'd)

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
Warwickshire	105	67	55	81		
North Warwickshire	21	112	69	171	124	1
Warwick	33	86	59	121	181	2
Stratford-On-Avon	21	56	35	86	329	3
Rugby	15	54	30	89	347	4
Nuneaton And Bedworth	15	43	24	71	364	5
West Midlands (Met County)	518	64	59	70		
Solihull	55	89	67	116	136	1
Birmingham	213	71	62	82	159	2
Sandwell	72	76	59	96	176	3
Wolverhampton	45	57	41	76	295	4
Walsall	44	55	40	74	303	5
Dudley	51	53	39	69	308	6
Coventry	38	40	28	55	355	7
Worcestershire	110	68	56	82		
Wyre Forest	31	104	71	148	115	1
Redditch	19	104	63	163	155	2
Wychavon	23	66	42	98	292	3
Bromsgrove	19	69	41	107	296	4
Malvern Hills	14	52	29	88	352	5
Worcester	4	16	4	41	405	6
EAST	1565	96	91	100		
Luton UA	38	83	59	114	182	
Peterborough UA	37	87	61	120	163	
Southend-On-Sea UA	64	110	85	141	78	
Thurrock UA	62	172	132	220	33	
Bedfordshire	62	61	46	78		
South Bedfordshire	21	70	43	107	279	1
Bedford	26	63	41	93	298	2
Mid Bedfordshire	15	48	27	79	361	3
Cambridgeshire	112	74	61	89		
East Cambridgeshire	20	94	57	145	191	1
South Cambridgeshire	30	82	55	117	204	2
Cambridge	22	76	48	116	247	3
Fenland	21	77	48	118	249	4
Huntingdonshire	19	50	30	79	345	5

Table 3 (cont'd)

	Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
				Lower	Upper		
Essex		462	116	106	127		
	Basildon	79	183	145	228	28	1
	Castle Point	51	190	142	250	30	2
	Brentwood	30	125	84	178	81	3
	Rochford	29	117	78	167	89	4
	Maldon	21	124	77	189	94	5
	Tendring	59	101	77	130	95	6
	Braintree	39	107	76	146	96	7
	Epping Forest	41	101	73	138	107	8
	Harlow	23	109	69	164	125	9
	Chelmsford	40	92	66	126	138	10
	Colchester	38	89	63	123	151	11
	Uttlesford	12	58	30	102	348	12
Hertfordshire		252	83	73	94		
	Three Rivers	36	133	93	184	62	1
	Stevenage	21	105	65	161	142	2
	Dacorum	35	88	62	123	161	3
	Welwyn Hatfield	28	89	59	129	178	4
	Broxbourne	22	92	58	140	189	5
	North Hertfordshire	29	82	55	118	206	6
	Watford	19	89	53	138	214	7
	Hertsmere	21	70	43	107	277	8
	East Hertfordshire	20	59	36	91	323	9
	St Albans	21	54	33	82	337	10
Norfolk		255	91	80	103		
	Norwich	48	123	91	163	70	1
	Great Yarmouth	33	103	71	145	113	2
	Broadland	39	99	70	135	117	3
	South Norfolk	35	90	63	126	153	4
	Kings Lynn And West Norfolk	38	75	53	104	213	5
	North Norfolk	32	77	53	109	218	6
	Breckland	30	75	50	107	232	7
Suffolk		221	100	88	114		
	Babergh	39	142	101	194	54	1
	Ipswich	48	126	93	167	64	2
	Waveney	47	112	82	149	83	3
	Suffolk Coastal	33	82	57	115	197	4
	St Edmundsbury	23	78	50	118	237	5
	Forest Heath	13	84	45	143	272	6
	Mid Suffolk	18	65	38	103	310	7

Table 3 (cont'd)

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
LONDON	1933	99	95	104		
Inner London	633	93	85	100		
Newham	136	250	210	296	12	1
Tower Hamlets	64	143	110	183	44	2
Lewisham	73	111	87	139	74	3
Wandsworth	65	97	75	123	101	4
Islington	38	86	61	118	169	5
Southwark	47	76	56	101	202	6
Camden	38	76	54	105	211	7
Hammersmith & Fulham	28	70	47	101	254	8
Hackney	32	68	46	96	255	9
Westminster, City Of	34	63	43	88	276	10
Lambeth	37	59	41	81	297	11
Haringey	25	49	32	73	340	12
Kensington & Chelsea	15	39	22	65	374	13
City Of London	1	41	1	229	408	14
Outer London	1300	103	97	109		
Barking & Dagenham	147	294	248	346	9	1
Havering	138	183	154	216	25	2
Hillingdon	103	147	120	178	37	3
Bexley	97	145	118	177	38	4
Greenwich	87	146	117	180	40	5
Redbridge	92	133	107	163	51	6
Sutton	49	95	70	125	119	7
Bromley	79	82	65	102	144	8
Harrow	52	85	64	112	149	9
Waltham Forest	51	84	63	111	157	10
Hounslow	46	83	61	110	171	11
Ealing	59	75	57	97	193	12
Merton	40	79	56	107	199	13
Kingston Upon Thames	31	75	51	107	225	14
Enfield	52	66	50	87	238	15
Barnet	56	62	47	80	253	16
Croydon	53	59	44	78	274	17
Brent	39	59	42	80	291	18
Richmond Upon Thames	29	56	37	80	316	19

Table 3 (cont'd)

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
SOUTH EAST	2904	119	115	124		
Bracknell Forest UA	40	176	126	240	34	
Brighton And Hove UA	48	58	43	77	284	
Isle Of Wight UA	96	186	151	228	26	
Medway UA	189	298	257	343	8	
Milton Keynes UA	44	116	85	156	80	
Portsmouth UA	222	388	339	443	4	
Reading UA	26	70	46	102	264	
Slough UA	39	138	98	189	55	
Southampton UA	207	325	282	373	7	
West Berkshire UA	37	99	70	136	122	
Windsor And Maidenhead UA	43	104	75	140	97	
Wokingham UA	28	81	54	116	212	
Buckinghamshire	124	91	76	109		
South Bucks	29	136	91	196	68	1
Chiltern	27	93	61	135	164	2
Wycombe	38	84	59	115	177	3
Aylesbury Vale	30	75	50	106	234	4
East Sussex	124	65	54	78		
Hastings	23	81	52	122	222	1
Lewes	26	75	49	109	241	2
Rother	29	72	48	104	243	3
Eastbourne	23	66	42	98	293	4
Wealden	23	45	28	67	353	5
Hampshire	587	164	151	178		
Eastleigh	94	303	245	371	10	1
Havant	93	243	196	298	16	2
Gosport	52	246	184	323	20	3
Fareham	68	215	167	272	22	4
New Forest	86	135	108	166	50	5
Test Valley	41	136	97	184	58	6
East Hampshire	41	130	93	177	61	7
Winchester	41	126	90	171	71	8
Basingstoke And Deane	41	109	78	147	90	9
Hart	19	94	57	147	196	10
Rushmoor	11	55	28	99	358	11

Table 3 (cont'd)

	Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
				Lower	Upper		
Kent		437	103	93	113		
	Dartford	41	167	120	227	36	1
	Gravesham	44	156	113	209	43	2
	Swale	50	142	105	187	52	3
	Canterbury	49	105	77	138	91	4
	Dover	38	104	73	142	104	5
	Thanet	48	95	70	126	120	6
	Sevenoaks	35	98	68	136	130	7
	Shepway	31	90	61	127	167	8
	Maidstone	36	87	61	120	168	9
	Ashford	24	80	51	119	224	10
	Tonbridge And Malling	22	72	45	110	267	11
	Tunbridge Wells	19	60	36	93	322	12
Oxfordshire		131	79	66	94		
	Vale Of White Horse	33	99	68	138	132	1
	South Oxfordshire	35	93	65	129	145	2
	West Oxfordshire	25	91	59	134	184	3
	Cherwell	24	73	47	109	252	4
	Oxford	14	40	22	67	373	5
Surrey		282	84	75	95		
	Surrey Heath	26	124	81	182	85	1
	Woking	25	99	64	146	147	2
	Spelthorne	28	95	63	137	152	3
	Runnymede	24	98	63	146	154	4
	Mole Valley	27	93	61	136	162	5
	Reigate And Banstead	32	80	55	113	207	6
	Guildford	29	75	50	107	236	7
	Tandridge	20	78	48	120	250	8
	Elmbridge	27	70	46	102	259	9
	Epsom And Ewell	18	76	45	121	268	10
	Waverley	26	68	44	99	275	11
West Sussex		200	76	66	88		
	Adur	24	105	67	157	134	1
	Crawley	22	87	54	131	208	2
	Worthing	31	80	54	113	210	3
	Mid Sussex	30	79	53	112	217	4
	Horsham	28	77	51	111	228	5
	Arun	38	65	46	89	258	6
	Chichester	27	65	43	94	285	7

Table 3 (cont'd)

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
SOUTH WEST	1648	100	95	105		
Bath And North East Somerset UA	50	88	65	116	141	
Bournemouth UA	44	71	52	95	223	
Bristol, City Of UA	117	96	80	116	87	
North Somerset UA	58	92	70	118	123	
Plymouth UA	298	396	352	443	3	
Poole UA	55	114	86	148	77	
South Gloucestershire UA	61	94	72	121	110	
Swindon UA	95	200	162	244	23	
Torbay UA	43	85	62	115	160	
Cornwall And Isles Of Scilly	160	91	77	106		
Caradon	52	190	142	249	29	1
Carrick	35	108	75	150	98	2
Kerrier	23	72	46	108	263	3
North Cornwall	19	66	40	103	304	4
Restormel	19	59	36	93	324	5
Penwith	11	47	24	85	366	6
Isles Of Scilly	1	132	3	737	407	7
Devon	208	82	71	94		
West Devon	25	143	93	212	65	1
South Hams	32	107	73	150	106	2
North Devon	31	97	66	138	139	3
Torridge	20	96	59	149	183	4
Exeter	25	79	51	116	227	5
East Devon	36	66	46	91	260	6
Teignbridge	29	65	43	93	278	7
Mid Devon	10	43	21	79	376	8
Dorset	135	89	75	106		
Christchurch	27	129	85	188	79	1
East Dorset	35	100	70	139	121	2
Weymouth And Portland	23	107	68	161	131	3
West Dorset	30	82	55	117	203	4
North Dorset	13	64	34	109	333	5
Purbeck	7	42	17	87	383	6
Gloucestershire	125	70	58	83		
Gloucester	32	104	71	146	114	1
Stroud	28	79	52	114	220	2
Tewkesbury	20	83	51	129	226	3
Forest Of Dean	17	66	38	105	313	4
Cotswold	18	64	38	101	314	5
Cheltenham	10	29	14	54	392	6

Table 3 (cont'd)

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
Somerset	111	66	54	80		
Sedgemoor	35	99	69	137	127	1
Mendip	24	75	48	111	246	2
South Somerset	30	58	39	83	309	3
Taunton Deane	14	42	23	70	368	4
West Somerset	8	53	23	104	370	5
Wiltshire	88	68	55	84		
North Wiltshire	26	75	49	110	240	1
West Wiltshire	25	70	45	103	266	2
Salisbury	24	66	42	98	287	3
Kennet	13	59	31	101	341	4
WALES	607	64	59	69		
Blaenau Gwent UA	8	33	14	65	390	
Bridgend UA	12	29	15	50	388	
Caerphilly UA	30	59	40	84	305	
Cardiff UA	82	94	75	117	100	
Carmarthenshire UA	42	66	48	90	248	
Ceredigion UA	11	45	23	81	371	
Conwy UA	24	56	36	83	326	
Denbighshire UA	32	94	64	132	146	
Flintshire UA	36	84	59	117	180	
Gwynedd UA	16	40	23	65	369	
Isle Of Anglesey UA	11	47	24	84	367	
Merthyr Tydfil UA	5	27	9	63	403	
Monmouthshire UA	9	32	15	61	389	
Neath Port Talbot UA	21	44	27	67	359	
Newport UA	36	86	60	118	173	
Pembrokeshire UA	33	85	59	119	186	
Powys UA	12	26	14	46	393	
Rhondda, Cynon, Taff UA	38	52	36	71	319	
Swansea UA	65	85	65	108	140	
Torfaen UA	10	35	17	65	384	
The Vale Of Glamorgan UA	40	108	77	147	92	
Wrexham UA	34	87	60	121	172	

Table 3 (cont'd)

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
SCOTLAND	1871	123	117	129		
Aberdeen City UA	59	97	74	125	102	
Aberdeenshire UA	27	44	29	65	351	
Angus UA	19	54	32	84	339	
Argyll And Bute UA	37	122	86	169	76	
Clackmannanshire UA	10	74	35	136	328	
Dumfries And Galloway UA	23	45	28	67	354	
Dundee City UA	47	97	71	129	112	
East Ayrshire UA	24	64	41	95	300	
East Dunbartonshire UA	55	179	134	232	32	
East Lothian UA	27	96	63	140	150	
East Renfrewshire UA	22	91	57	137	195	
Edinburgh, City Of UA	126	96	80	115	86	
Eilean Siar (Western Isles) UA	4	38	10	97	401	
Falkirk UA	51	118	88	155	73	
Fife UA	137	130	109	154	46	
Glasgow City UA	411	218	198	241	15	
Highland UA	43	68	49	92	239	
Inverclyde UA	67	244	189	310	18	
Midlothian UA	18	78	46	123	256	
Moray UA	18	70	41	110	299	
North Ayrshire UA	50	125	93	165	63	
North Lanarkshire UA	81	93	74	115	103	
Orkney Islands UA	4	61	17	155	386	
Perth And Kinross UA	17	38	22	61	372	
Renfrewshire UA	129	255	213	303	11	
Scottish Borders UA	12	32	17	57	385	
Shetland Islands UA	2	32	4	115	406	
South Ayrshire UA	29	76	51	109	229	
South Lanarkshire UA	101	119	97	145	59	
Stirling UA	8	33	14	64	391	
West Dunbartonshire UA	178	637	547	738	1	
West Lothian UA	35	99	69	137	129	

Table 4 

Mesothelioma mortality in Great Britain: numbers of deaths and SMRs for females by area 1981-2000

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
GREAT BRITAIN	2761					
ENGLAND & WALES	2488	99	95	103		
ENGLAND	2401	102	98	106		
NORTH EAST	216	168	146	192		
Darlington UA	10	193	93	356	33	
Hartlepool UA	6	138	51	301	94	
Middlesbrough UA	4	63	17	162	252	
Redcar And Cleveland UA	9	132	60	250	71	
Stockton-On-Tees UA	10	132	63	242	66	
Durham	19	76	46	119		
Chester-Le-Street	3	124	26	363	191	1
Derwentside	4	87	24	222	203	2
Easington	4	83	23	213	211	3
Wear Valley	3	88	18	257	243	4
Durham	2	51	6	183	333	5
Sedgefield	2	46	6	166	338	6
Teesdale	1	72	2	400	360	7
Northumberland	12	76	39	133		
Tynedale	5	160	52	374	85	1
Blyth Valley	5	146	47	340	100	2
Berwick Upon Tweed	1	62	2	343	362	3
Alnwick	1	58	1	326	363	4
Castle Morpeth	0	0	0	138	395	5
Wansbeck	0	0	0	114	395	5
Tyne And Wear (Met County)	146	254	214	298		
Sunderland	79	575	455	716	2	1
Newcastle-Upon-Tyne	29	204	137	294	13	2
North Tyneside	19	179	107	279	22	3
Gateshead	12	113	58	197	73	4
South Tyneside	7	84	34	172	160	5
NORTH WEST	332	97	87	108		
Blackburn With Darwen UA	31	484	329	687	3	
Blackpool UA	9	95	43	180	116	
Halton UA	3	59	12	172	291	
Warrington UA	4	49	13	124	286	
Cheshire	25	77	50	114		
Vale Royal	8	147	64	290	65	1
Macclesfield	7	88	35	182	151	2
Crewe & Nantwich	3	58	12	170	292	3
Chester	3	49	10	143	312	4
Ellesmere Port & Neston	2	55	7	198	330	5
Congleton	2	49	6	179	335	6

Table 4 (cont'd)

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
Cumbria	20	76	47	118		
Carlisle	7	129	52	266	86	1
Barrow-In-Furness	5	135	44	316	113	2
South Lakeland	3	49	10	144	311	3
Eden	2	81	10	292	314	4
Allerdale	2	39	5	141	346	5
Copeland	1	29	1	164	376	6
Greater Manchester (Met County)	106	86	70	104		
Wigan	19	134	81	209	44	1
Salford	16	133	76	216	49	2
Tameside	11	104	52	185	87	3
Oldham	10	96	46	176	107	4
Bolton	10	79	38	146	137	5
Rochdale	8	85	37	167	142	6
Trafford	8	74	32	145	165	7
Bury	6	70	26	152	192	8
Manchester	10	50	24	93	200	9
Stockport	8	55	24	108	204	10
Lancashire	75	130	102	162		
South Ribble	17	367	214	588	7	1
Chorley	12	279	144	488	10	2
Preston	9	144	66	274	62	3
Pendle	5	113	37	264	141	4
Fylde	5	104	34	242	159	5
Wyre	6	90	33	196	161	6
Hyndburn	4	100	27	257	184	7
Burnley	4	90	24	230	199	8
West Lancashire	4	81	22	207	214	9
Rosendale	3	96	20	279	228	10
Lancaster	4	53	15	137	278	11
Ribble Valley	2	72	9	259	318	12
Merseyside (Met County)	59	80	61	103		
Liverpool	30	125	85	179	40	1
Knowsley	6	89	33	193	163	2
Wirral	11	61	30	109	168	3
Sefton	10	61	29	112	174	4
St Helens	2	23	3	83	359	5
YORKSHIRE AND THE HUMBER	290	118	105	133		
East Riding Of Yorkshire UA	9	57	26	109	189	
Kingston Upon Hull, City Of UA	4	32	9	82	317	
North East Lincolnshire UA	4	52	14	132	281	
North Lincolnshire UA	7	97	39	200	132	
York UA	4	45	12	115	290	

Table 4 (cont'd)

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
North Yorkshire	24	81	52	121		
Scarborough	8	117	51	231	96	1
Harrogate	7	89	36	183	149	2
Craven	3	99	20	290	222	3
Hambleton	3	76	16	221	269	4
Selby	2	63	8	229	327	5
Ryedale	1	37	1	205	371	6
Richmondshire	0	0	0	184	395	7
South Yorkshire (Met County)	25	39	25	57		
Sheffield	15	54	30	88	170	1
Barnsley	4	37	10	94	313	2
Rotherham	3	26	5	75	340	3
Doncaster	3	22	5	64	349	4
West Yorkshire (Met County)	213	214	186	245		
Leeds	115	328	271	394	5	1
Kirklees	41	226	162	306	9	2
Wakefield	24	164	105	244	24	3
Calderdale	16	162	93	263	34	4
Bradford	17	78	46	125	108	5
EAST MIDLANDS	176	91	78	106		
Derby UA	4	37	10	96	310	
Leicester UA	4	31	9	81	320	
Nottingham UA	28	216	144	313	11	
Rutland UA	3	199	41	582	123	
Derbyshire	33	92	63	129		
High Peak	7	171	69	352	58	1
The Derbyshire Dales	6	158	58	343	74	2
Erewash	7	136	55	279	81	3
Chesterfield	4	76	21	195	219	4
Bolsover	3	83	17	243	253	5
Amber Valley	3	51	11	150	307	6
North East Derbyshire	2	42	5	151	343	7
South Derbyshire	1	30	1	167	374	8
Leicestershire	9	34	16	65		
North West Leicestershire	3	77	16	224	267	1
Melton	2	93	11	337	299	2
Charnwood	2	31	4	110	354	3
Harborough	1	32	1	179	372	4
Blaby	1	27	1	152	381	5
Oadby And Wigston	0	0	0	149	395	6
Hinckley And Bosworth	0	0	0	84	395	6

Table 4 (cont'd)

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
Lincolnshire	19	60	36	94		
Boston	4	136	37	347	140	1
East Lindsey	5	70	23	163	209	2
South Kesteven	4	75	20	192	223	3
South Holland	3	77	16	225	264	4
West Lindsey	1	26	1	144	382	5
Lincoln	1	25	1	137	384	6
North Kesteven	1	24	1	131	385	7
Northamptonshire	25	97	63	143		
South Northamptonshire	5	165	54	385	82	1
Northampton	8	101	44	200	114	2
Kettering	4	107	29	273	175	3
Wellingborough	3	98	20	285	226	4
East Northamptonshire	3	93	19	272	233	5
Corby	1	46	1	259	364	6
Daventry	1	37	1	206	370	7
Nottinghamshire	51	144	107	190		
Broxtowe	13	252	134	432	15	1
Gedling	11	207	103	371	26	2
Rushcliffe	10	207	99	381	30	3
Newark And Sherwood	7	138	55	284	79	4
Bassetlaw	4	80	22	205	215	5
Ashfield	4	77	21	198	218	6
Mansfield	2	42	5	152	342	7
WEST MIDLANDS	158	63	54	74		
Herefordshire, County Of UA	4	46	12	117	289	
Stoke-On-Trent UA	10	80	38	147	136	
Telford And Wrekin UA	3	54	11	157	302	
Shropshire	6	43	16	93		
Shrewsbury And Atcham	4	84	23	215	208	1
South Shropshire	1	45	1	249	365	2
Bridgnorth	1	41	1	227	367	3
Oswestry	0	0	0	202	395	4
North Shropshire	0	0	0	133	395	4
Staffordshire	20	56	34	86		
East Staffordshire	4	85	23	219	205	1
Newcastle-Under-Lyme	4	65	18	166	248	2
Lichfield	3	75	15	219	272	3
Staffordshire Moorlands	3	64	13	186	288	4
South Staffordshire	2	45	5	163	339	5
Stafford	2	35	4	126	352	6
Tamworth	1	43	1	238	366	7
Cannock Chase	1	28	1	154	380	8

Table 4 (cont'd)

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
Warwickshire	12	51	26	90		
North Warwickshire	3	112	23	326	207	1
Nuneaton And Bedworth	4	78	21	200	217	2
Rugby	3	74	15	215	274	3
Stratford-On-Avon	1	18	0	99	389	4
Warwick	1	17	0	94	391	5
West Midlands (Met County)	82	66	52	81		
Birmingham	30	64	43	91	117	1
Sandwell	12	80	41	139	122	2
Wolverhampton	10	83	40	153	129	3
Walsall	10	81	39	149	133	4
Dudley	9	60	28	114	182	5
Coventry	7	49	20	100	231	6
Solihull	4	42	12	108	296	7
Worcestershire	21	85	53	130		
Wyre Forest	5	109	35	254	152	1
Wychavon	5	96	31	224	167	2
Worcester	4	101	28	259	183	3
Malvern Hills	3	73	15	214	275	4
Redditch	2	74	9	267	316	5
Bromsgrove	2	48	6	175	336	6
EAST	258	104	92	118		
Luton UA	6	93	34	202	157	
Peterborough UA	6	96	35	208	154	
Southend-On-Sea UA	9	91	42	172	121	
Thurrock UA	7	128	52	265	88	
Bedfordshire	12	80	41	140		
South Bedfordshire	7	161	65	331	64	1
Mid Bedfordshire	3	68	14	197	282	2
Bedford	2	33	4	118	353	3
Cambridgeshire	19	84	51	132		
Huntingdonshire	7	127	51	263	90	1
South Cambridgeshire	4	76	21	195	220	2
East Cambridgeshire	3	98	20	287	225	3
Fenland	3	75	15	219	271	4
Cambridge	2	42	5	153	341	5

Table 4 (cont'd)

	Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
				Lower	Upper		
Essex		81	133	105	165		
	Maldon	7	281	113	578	18	1
	Chelmsford	13	199	106	341	23	2
	Basildon	13	192	102	328	28	3
	Castle Point	9	222	102	422	29	4
	Tendring	10	107	51	196	91	5
	Epping Forest	7	115	46	236	105	6
	Uttlesford	4	133	36	341	144	7
	Harlow	4	126	34	323	156	8
	Brentwood	4	109	30	280	171	9
	Colchester	5	76	25	177	198	10
	Rochford	3	81	17	235	255	11
	Braintree	2	36	4	130	351	12
Hertfordshire		45	98	72	132		
	Dacorum	12	200	103	350	27	1
	Hertsmere	6	129	47	280	101	2
	East Hertfordshire	6	119	44	259	115	3
	North Hertfordshire	6	112	41	243	124	4
	Three Rivers	4	97	27	250	187	5
	Welwyn Hatfield	3	64	13	186	287	6
	St Albans	3	51	10	148	308	7
	Stevenage	2	66	8	239	322	8
	Watford	2	60	7	216	328	9
	Broxbourne	1	28	1	158	378	10
Norfolk		42	100	72	136		
	Breckland	8	140	60	275	69	1
	Kings Lynn And West Norfolk	9	122	56	232	76	2
	South Norfolk	7	127	51	261	92	3
	North Norfolk	7	115	46	236	106	4
	Norwich	5	78	25	181	196	5
	Broadland	4	70	19	179	235	6
	Great Yarmouth	2	41	5	147	344	7
Suffolk		31	93	63	133		
	Forest Heath	4	174	47	446	99	1
	Ipswich	7	116	47	240	104	2
	Babergh	5	123	40	287	128	3
	Waveney	5	78	25	182	194	4
	Suffolk Coastal	4	65	18	167	247	5
	Mid Suffolk	3	77	16	224	268	6
	St Edmundsbury	3	68	14	200	280	7

Table 4 (cont'd)

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
LONDON	402	129	117	143		
Inner London	127	117	97	139		
Newham	29	348	233	499	6	1
Tower Hamlets	13	203	108	348	21	2
Southwark	14	143	78	240	48	3
Hammersmith & Fulham	10	152	73	280	52	4
Lewisham	14	130	71	219	55	5
Hackney	8	109	47	216	102	6
Haringey	7	86	35	178	155	7
Wandsworth	8	70	30	139	169	8
Camden	6	74	27	162	185	9
Westminster, City Of	5	58	19	136	236	10
Kensington & Chelsea	4	64	17	164	250	11
Lambeth	5	50	16	118	260	12
Islington	4	57	16	146	270	13
City Of London	0	0	0	1290	395	14
Outer London	275	136	120	153		
Barking & Dagenham	53	649	486	849	1	1
Redbridge	21	191	118	291	17	2
Havering	21	180	112	276	19	3
Greenwich	15	153	86	253	37	4
Waltham Forest	15	152	85	251	39	5
Hillingdon	16	147	84	238	41	6
Bromley	20	128	78	198	47	7
Bexley	14	134	73	225	51	8
Enfield	14	111	61	186	68	9
Kingston Upon Thames	8	118	51	232	93	10
Brent	10	100	48	185	98	11
Ealing	11	91	45	162	109	12
Harrow	9	92	42	174	119	13
Hounslow	8	93	40	184	126	14
Richmond Upon Thames	8	93	40	182	127	15
Barnet	11	74	37	133	139	16
Croydon	9	63	29	120	176	17
Merton	6	71	26	155	190	18
Sutton	6	69	25	151	193	19

Table 4 (cont'd)

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
SOUTH EAST	392	102	92	113		
Bracknell Forest UA	9	262	120	498	16	
Brighton And Hove UA	2	14	2	50	361	
Isle Of Wight UA	5	60	19	140	232	
Medway UA	15	153	86	252	38	
Milton Keynes UA	12	210	109	368	20	
Portsmouth UA	14	148	81	248	43	
Reading UA	3	51	11	150	306	
Slough UA	7	168	67	346	60	
Southampton UA	22	221	139	335	12	
West Berkshire UA	3	54	11	158	300	
Windsor And Maidenhead UA	9	142	65	269	63	
Wokingham UA	4	80	22	205	216	
Buckinghamshire	23	115	73	172		
Chiltern	9	205	94	389	32	1
Wycombe	7	107	43	220	118	2
South Bucks	3	96	20	280	227	3
Aylesbury Vale	4	67	18	173	241	4
East Sussex	19	59	35	92		
Hastings	7	139	56	286	77	1
Lewes	5	87	28	204	178	2
Rother	5	73	24	170	201	3
Eastbourne	1	15	0	86	393	4
Wealden	1	12	0	67	394	5
Hampshire	53	96	72	126		
Eastleigh	8	173	75	340	50	1
Havant	9	151	69	287	56	2
New Forest	9	91	42	173	120	3
Test Valley	5	111	36	258	147	4
Fareham	5	104	34	242	158	5
East Hampshire	4	83	23	213	210	6
Hart	3	100	21	293	221	7
Rushmoor	3	95	20	278	229	8
Basingstoke And Deane	4	72	20	184	230	9
Winchester	2	39	5	141	347	10
Gosport	1	29	1	160	377	11

Table 4 (cont'd)

	Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
				Lower	Upper		
Kent		74	109	86	137		
	Swale	16	297	170	482	8	1
	Tonbridge And Malling	10	218	104	401	25	2
	Maidstone	12	187	97	326	31	3
	Gravesham	8	184	80	363	46	4
	Thanet	10	118	56	216	75	5
	Shepway	4	69	19	177	238	6
	Dover	4	68	19	175	239	7
	Ashford	3	65	13	189	284	8
	Dartford	2	53	6	193	331	9
	Sevenoaks	2	37	4	134	350	10
	Canterbury	2	26	3	93	357	11
	Tunbridge Wells	1	19	0	104	388	12
Oxfordshire		27	109	72	158		
	Cherwell	8	165	71	326	54	1
	Oxford	7	128	51	263	89	2
	West Oxfordshire	5	122	40	284	131	3
	Vale Of White Horse	4	82	22	211	212	4
	South Oxfordshire	3	54	11	158	301	5
Surrey		55	106	80	138		
	Surrey Heath	7	229	92	472	35	1
	Runnymede	6	164	60	358	70	2
	Tandridge	6	152	56	330	78	3
	Reigate And Banstead	8	127	55	250	80	4
	Spelthorne	6	138	51	300	95	5
	Guildford	6	98	36	214	145	6
	Mole Valley	5	111	36	259	146	7
	Elmbridge	4	65	18	168	246	8
	Epsom And Ewell	3	80	17	234	258	9
	Woking	3	77	16	224	266	10
	Waverley	1	16	0	89	392	11
West Sussex		36	82	58	114		
	Crawley	8	212	92	418	36	1
	Mid Sussex	6	97	36	211	150	2
	Chichester	6	89	33	193	162	3
	Arun	7	70	28	144	179	4
	Horsham	4	70	19	180	234	5
	Adur	3	78	16	229	263	6
	Worthing	2	26	3	96	356	7

Table 4 (cont'd)

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
SOUTH WEST	178	69	59	80		
Bath And North East Somerset UA	10	111	53	205	83	
Bournemouth UA	8	74	32	145	164	
Bristol, City Of UA	21	108	67	165	61	
North Somerset UA	3	30	6	86	334	
Plymouth UA	8	66	29	131	177	
Poole UA	3	38	8	112	323	
South Gloucestershire UA	8	84	36	166	143	
Swindon UA	10	141	68	260	59	
Torbay UA	5	58	19	136	237	
Cornwall And Isles Of Scilly	23	84	53	126		
Restormel	6	122	45	266	111	1
Carrick	5	97	31	226	166	2
Kerrier	4	81	22	208	213	3
Caradon	3	72	15	210	276	4
North Cornwall	3	69	14	203	279	5
Penwith	2	53	6	192	332	6
Isles Of Scilly	0	0	0	3489	395	7
Devon	21	53	33	80		
North Devon	6	121	45	264	112	1
Teignbridge	5	71	23	165	206	2
Exeter	3	56	12	164	295	3
Torridge	2	65	8	236	324	4
East Devon	3	34	7	99	329	5
West Devon	1	37	1	208	369	6
South Hams	1	22	1	122	386	7
Mid Devon	0	0	0	106	395	8
Dorset	16	68	39	111		
West Dorset	5	87	28	202	180	1
Weymouth And Portland	3	89	18	261	240	2
Christchurch	3	88	18	256	244	3
East Dorset	3	58	12	169	294	4
Purbeck	1	40	1	223	368	5
North Dorset	1	32	1	178	373	6
Gloucestershire	17	61	36	98		
Gloucester	7	149	60	307	72	1
Forest Of Dean	3	77	16	225	265	2
Stroud	3	55	11	161	298	3
Cotswold	2	46	6	166	337	4
Tewkesbury	1	28	1	155	379	5
Cheltenham	1	18	0	98	390	6

Table 4 (cont'd)

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
Somerset	11	42	21	76		
Sedgemoor	3	55	11	162	297	1
West Somerset	2	84	10	305	309	2
South Somerset	3	38	8	111	325	3
Mendip	2	41	5	147	345	4
Taunton Deane	1	19	0	104	387	5
Wiltshire	14	71	39	119		
Salisbury	6	106	39	231	134	1
West Wiltshire	5	91	30	213	173	2
North Wiltshire	2	39	5	140	348	3
Kennet	1	30	1	166	375	4
WALES	86	57	46	71		
Blaenau Gwent UA	0	0	0	96	395	
Bridgend UA	4	61	17	157	254	
Caerphilly UA	7	89	36	183	148	
Cardiff UA	4	28	8	72	326	
Carmarthenshire UA	5	50	16	118	259	
Ceredigion UA	3	80	17	235	257	
Conwy UA	7	95	38	197	135	
Denbighshire UA	3	53	11	156	304	
Flintshire UA	3	46	9	133	315	
Gwynedd UA	4	60	16	153	262	
Isle Of Anglesey UA	4	109	30	279	172	
Merthyr Tydfil UA	3	99	20	290	224	
Monmouthshire UA	3	72	15	210	277	
Neath Port Talbot UA	3	39	8	114	321	
Newport UA	2	30	4	110	355	
Pembrokeshire UA	6	101	37	220	138	
Powys UA	4	61	17	156	256	
Rhondda, Cynon, Taff UA	7	59	24	121	202	
Swansea UA	5	41	13	96	285	
Torfaen UA	0	0	0	83	395	
The Vale Of Glamorgan UA	5	86	28	202	181	
Wrexham UA	4	64	18	165	249	

Table 4 (cont'd)

Area	Deaths	SMR	95% Confidence Interval		Rank Within GB	Rank within County
			Lower	Upper		
SCOTLAND	273	108	96	122		
Aberdeen City UA	15	143	80	237	45	
Aberdeenshire UA	4	44	12	113	293	
Angus UA	3	52	11	151	305	
Argyll And Bute UA	8	159	69	313	57	
Clackmannanshire UA	2	91	11	329	303	
Dumfries And Galloway UA	2	25	3	90	358	
Dundee City UA	6	72	26	157	188	
East Ayrshire UA	4	66	18	169	245	
East Dunbartonshire UA	6	123	45	268	110	
East Lothian UA	3	66	14	193	283	
East Renfrewshire UA	4	99	27	254	186	
Edinburgh, City Of UA	19	82	50	129	97	
Eilean Siar (Western Isles) UA	0	0	0	224	395	
Falkirk UA	7	102	41	210	125	
Fife UA	18	105	62	166	67	
Glasgow City UA	60	178	136	229	14	
Highland UA	8	81	35	160	153	
Inverclyde UA	6	128	47	278	103	
Midlothian UA	3	84	17	247	251	
Moray UA	3	74	15	216	273	
North Ayrshire UA	4	60	16	153	261	
North Lanarkshire UA	14	97	53	163	84	
Orkney Islands UA	2	204	25	737	197	
Perth And Kinross UA	3	42	9	122	319	
Renfrewshire UA	12	141	73	247	53	
Scottish Borders UA	4	67	18	171	242	
Shetland Islands UA	0	0	0	375	395	
South Ayrshire UA	5	78	25	182	195	
South Lanarkshire UA	19	135	81	211	42	
Stirling UA	1	25	1	140	383	
West Dunbartonshire UA	22	451	282	682	4	
West Lothian UA	6	108	40	236	130	

Table 5 

Mesothelioma Standardised Mortality Ratios for males in Great Britain by area and five year time period 1981-2000

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
GREAT BRITAIN	17531	17531	2355		3623		5071		6480			
ENGLAND & WALES	15644	16009	2097	98	3183	96	4517	98	5847	99		
ENGLAND	15034	15058	2033	100	3078	99	4322	99	5601	101		
NORTH EAST	1485	812	241	216	317	187	427	182	500	169	-	**
Darlington UA	41	32	2	45	10	148	15	161	14	120		
Hartlepool UA	67	28	7	181	15	259	23	284	22	217		
Middlesbrough UA	58	40	6	105	17	198	17	146	18	125		
Redcar And Cleveland UA	77	44	15	257	15	164	22	169	25	151		
Stockton-On-Tees UA	107	49	26	405	27	264	26	178	28	148	-	**
Durham	106	160	16	73	13	39	32	69	45	77		
Derwentside	28	29	3	74	3	49	8	96	14	135		
Durham	14	25	2	59	0	0	2	27	10	106	+	**
Easington	24	32	3	67	5	75	8	87	8	70		
Sedgefield	14	28	2	52	2	34	6	73	4	39		
Wear Valley	7	21	1	34	0	0	4	65	2	26		
Northumberland	97	103	14	102	21	99	28	93	34	88		
Blyth Valley	35	22	8	276	4	87	12	182	11	128		
Tynedale	14	20	1	39	4	98	6	102	3	40		
Wansbeck	16	21	1	34	3	68	5	82	7	92		
Tyne And Wear (Met County)	932	354	155	312	199	267	264	260	314	249	-	*
Gateshead	119	66	20	216	28	201	38	201	33	141		
Newcastle-Upon-Tyne	202	85	40	324	43	239	52	218	67	232		
North Tyneside	219	64	31	348	56	414	67	360	65	278		
South Tyneside	187	52	30	409	41	374	52	345	64	339		
Sunderland	205	87	34	287	31	170	55	218	85	270		

Table 5 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
NORTH WEST	2099	2116	291	100	427	97	610	100	771	101		
Blackburn With Darwen UA	27	39	2	35	7	85	11	100	7	52		
Blackpool UA	56	56	9	114	10	85	18	112	19	97		
Halton UA	44	33	7	160	4	58	20	210	13	108		
Warrington UA	30	53	0	0	5	46	13	83	12	59	+	*
Cheshire	236	209	23	85	35	82	83	135	95	118		
Chester	23	39	2	39	2	25	9	79	10	68		
Congleton	23	27	4	122	2	37	4	51	13	124		
Crewe & Nantwich	81	34	11	249	16	235	28	283	26	202		
Ellesmere Port & Neston	33	24	3	98	7	141	12	167	11	117		
Macclesfield	31	51	2	30	2	19	13	88	14	73		
Vale Royal	45	36	1	22	6	82	17	162	21	152	+	*
Cumbria	248	167	41	186	59	172	61	126	87	139	-	*
Allerdale	16	33	1	23	4	59	1	11	10	82		
Barrow-In-Furness	140	24	30	920	29	588	40	593	41	479	-	**
Carlisle	30	34	3	65	4	57	7	71	16	127		
Copeland	25	22	3	101	12	261	3	47	7	84		
South Lakeland	32	38	3	62	9	119	9	82	11	76		

Table 5 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
Greater Manchester (Met County)	636	758	86	80	137	86	179	82	234	87		
Bolton	97	77	12	113	18	112	29	130	38	135		
Bury	48	53	6	83	10	92	11	72	21	109		
Manchester	92	121	18	95	29	109	22	66	23	60	-	*
Oldham	40	64	4	44	4	30	13	71	19	83		
Rochdale	46	59	10	123	12	98	9	53	15	71		
Salford	68	73	10	93	18	116	15	73	25	100		
Stockport	55	90	5	41	9	48	20	77	21	63		
Tameside	70	65	9	99	16	117	18	96	27	117		
Trafford	53	68	7	75	9	64	17	87	20	82		
Wigan	67	88	5	42	12	66	25	98	25	77		
Lancashire	275	359	34	71	54	73	89	86	98	74		
Burnley	11	28	1	26	3	53	2	25	5	51		
Chorley	23	27	4	114	6	107	5	62	8	75		
Fylde	19	29	2	54	0	0	9	108	8	74	+	**
Hyndburn	18	25	2	57	4	77	7	100	5	57		
Lancaster	30	45	1	16	9	97	10	78	10	62		
Pendle	22	27	2	52	3	54	9	118	8	84		
Preston	35	39	6	109	4	49	16	146	9	66		
South Ribble	18	30	3	79	5	82	8	90	2	17		
West Lancashire	24	32	5	125	4	62	5	53	10	80		
Wyre	41	41	3	57	7	84	13	109	18	117		

Table 5 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
Merseyside (Met County)	547	442	89	143	116	125	136	107	206	131		
Knowsley	62	42	7	120	14	159	10	83	31	203		
Liverpool	153	142	22	104	37	122	36	90	58	122		
Sefton	106	96	16	125	20	100	32	114	38	107		
St Helens	29	55	4	53	4	35	10	63	11	55		
Wirral	197	107	40	273	41	183	48	155	68	177	-	*
YORKSHIRE AND THE HUMBER	1441	1551	187	89	260	81	435	97	559	99	+	**
East Riding Of Yorkshire UA	74	103	5	39	13	63	22	72	34	84		
Kingston Upon Hull, City Of UA	77	77	9	82	20	124	18	82	30	112		
North East Lincolnshire UA	43	50	2	30	9	87	17	117	15	81		
North Lincolnshire UA	46	49	8	124	3	30	19	132	16	86		
York UA	82	56	5	68	11	96	31	194	35	168	+	**
North Yorkshire	122	188	18	75	16	42	39	71	49	67		
Hambleton	15	27	4	119	1	19	5	63	5	47		
Harrogate	30	48	3	48	4	41	10	73	13	72		
Scarborough	28	41	5	95	7	84	9	75	7	45		
Selby	21	21	4	150	3	69	7	110	7	83		
South Yorkshire (Met County)	329	412	37	65	63	73	107	90	122	83		
Barnsley	16	71	3	30	3	20	6	29	4	16		
Doncaster	124	91	19	155	18	95	38	142	49	145		
Rotherham	47	76	1	10	12	75	18	81	16	57		
Sheffield	142	173	14	56	30	82	45	92	53	89		

Table 5 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
West Yorkshire (Met County)	668	617	103	120	125	97	182	103	258	116		
Bradford	107	133	14	76	19	68	37	97	37	78		
Calderdale	82	59	14	169	17	137	22	130	29	137		
Kirklees	105	112	17	111	18	78	20	62	50	123		
Leeds	296	218	47	154	57	125	78	125	114	147		
Wakefield	78	95	11	85	14	71	25	91	28	80		
EAST MIDLANDS	930	1282	105	63	185	70	272	72	368	76	+	*
Derby UA	95	70	12	125	22	150	26	128	35	137		
Leicester UA	46	81	11	94	9	53	13	57	13	47		
Nottingham UA	74	83	9	75	20	113	15	64	30	107		
Derbyshire	132	238	15	47	25	51	34	49	58	65		
Amber Valley	21	39	2	38	6	76	7	63	6	42		
Bolsover	10	25	1	30	0	0	4	56	5	56	+	**
Chesterfield	17	34	3	66	3	43	6	61	5	41		
Erewash	27	34	3	66	6	85	8	81	10	79		
High Peak	14	26	0	0	2	38	4	53	8	80	+	*
North East Derbyshire	19	33	2	47	3	44	3	31	11	87		
South Derbyshire	14	23	2	68	3	64	2	29	7	79		
The Derbyshire Dales	10	25	2	62	2	40	0	0	6	64	-	**
Leicestershire	120	178	12	54	25	69	25	47	58	83		
Blaby	17	25	3	97	3	59	2	27	9	90		
Charnwood	25	44	0	0	7	79	6	46	12	71		
Harborough	17	22	1	38	5	116	5	78	6	68		
Hinckley And Bosworth	18	30	5	136	2	33	4	45	7	59		
North West Leicestershire	17	27	1	29	2	37	1	13	13	128	+	*

Table 5 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
Lincolnshire	116	213	12	46	17	40	41	64	46	54		
East Lindsey	22	49	1	17	2	21	7	47	12	59		
Lincoln	17	25	0	0	2	38	9	122	6	65		
North Kesteven	16	29	2	57	4	69	5	57	5	42		
South Holland	17	27	1	31	2	37	5	61	9	80		
South Kesteven	20	36	1	23	5	70	6	56	8	55		
West Lindsey	16	27	6	182	0	0	7	87	3	28		
Northamptonshire	161	173	15	68	34	96	46	91	66	100		
Corby	20	15	1	51	4	129	5	113	10	178		
East Northamptonshire	23	22	2	72	3	69	6	96	12	145		
Kettering	20	24	1	31	8	161	2	29	9	98		
Northampton	37	51	2	30	8	76	10	67	17	88		
South Northamptonshire	16	21	0	0	5	118	5	80	6	71		
Wellingborough	27	21	6	227	3	71	10	165	8	100		
Nottinghamshire	182	236	19	62	31	64	71	102	61	68		
Ashfield	16	34	1	22	4	56	6	60	5	39		
Bassetlaw	35	34	3	68	7	100	13	130	12	93		
Broxtowe	28	34	2	45	6	85	5	49	15	115		
Gedling	30	35	4	88	3	41	14	134	9	66		
Mansfield	14	32	2	46	3	45	5	54	4	34		
Newark And Sherwood	30	34	5	115	2	29	16	160	7	54		
Rushcliffe	29	32	2	51	6	93	12	127	9	73		

Table 5 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
WEST MIDLANDS	1032	1632	103	47	156	46	309	65	464	76	+	**
Herefordshire, County Of UA	20	59	0	0	3	25	8	46	9	39		
Stoke-On-Trent UA	45	78	1	9	5	30	15	67	24	86	+	**
Telford And Wrekin UA	24	37	2	44	6	80	7	63	9	62		
Shropshire	47	93	6	52	7	37	15	55	19	52		
Shrewsbury And Atcham	17	30	0	0	4	65	6	67	7	60		
Staffordshire	163	239	14	46	12	25	53	75	84	90	+	**
Cannock Chase	21	24	3	94	2	40	6	83	10	106		
East Staffordshire	32	31	2	49	2	31	10	111	18	153	+	*
Lichfield	24	27	1	31	2	36	5	61	16	146	+	*
Newcastle-Under-Lyme	12	40	0	0	0	0	6	52	6	41	+	**
South Staffordshire	14	31	1	27	1	16	5	54	7	55		
Stafford	28	38	3	61	0	0	9	79	16	107	+	**
Staffordshire Moorlands	8	32	2	48	1	15	1	11	4	33		
Tamworth	24	16	2	107	4	127	11	229	7	109		
Warwickshire	105	157	9	44	13	40	32	69	51	85	+	*
North Warwickshire	21	19	1	40	4	104	8	146	8	113		
Nuneaton And Bedworth	15	35	1	22	0	0	5	49	9	69	+	**
Rugby	15	28	1	27	2	35	2	24	10	94		
Stratford-On-Avon	21	37	2	43	4	53	3	27	12	82		
Warwick	33	38	4	81	3	38	14	123	12	81		

Table 5 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
West Midlands (Met County)	518	807	57	50	88	52	155	67	218	76	+	**
Birmingham	213	299	23	53	38	60	72	85	80	78	+	*
Coventry	38	95	1	7	6	30	8	30	23	69	+	**
Dudley	51	97	5	39	6	30	18	63	22	60		
Sandwell	72	95	11	81	16	79	15	55	30	91		
Solihull	55	62	6	76	10	78	18	97	21	87		
Walsall	44	80	4	37	3	18	13	55	24	81	+	**
Wolverhampton	45	79	7	63	9	54	11	48	18	63		
Worcestershire	110	162	14	70	22	67	24	49	50	77		
Bromsgrove	19	28	4	117	2	36	4	48	9	81		
Malvern Hills	14	27	1	30	4	74	3	38	6	57		
Worcester	4	25	1	31	0	0	1	14	2	21		
Wychavon	23	35	2	48	6	86	5	48	10	70		
Wyre Forest	31	30	3	80	8	132	7	79	13	112		
EAST	1565	1638	171	81	311	93	440	92	643	102	+	**
Luton UA	38	46	7	113	11	117	7	53	13	76		
Peterborough UA	37	43	2	37	3	34	12	94	20	124	+	*
Southend-On-Sea UA	64	58	5	62	10	83	22	135	27	132		
Thurrock UA	62	36	5	100	17	225	18	173	22	165		
Bedfordshire	62	102	3	23	15	72	23	77	21	53		
Bedford	26	41	1	19	7	83	12	100	6	38		
Mid Bedfordshire	15	31	1	25	4	63	3	33	7	57		
South Bedfordshire	21	30	1	26	4	65	8	90	8	68		

Table 5 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
Cambridgeshire	112	152	7	37	19	63	39	87	47	78		
Cambridge	22	29	5	127	3	51	5	60	9	87		
East Cambridgeshire	20	21	0	0	3	71	8	129	9	104	+	*
Fenland	21	27	1	30	2	37	10	122	8	73		
South Cambridgeshire	30	37	1	22	7	95	10	92	12	82		
Huntingdonshire	19	38	0	0	4	53	6	53	9	58		
Essex	462	399	53	105	98	121	124	106	187	121		
Basildon	79	43	7	133	18	202	26	198	28	163		
Braintree	39	36	5	108	4	54	11	103	19	134		
Brentwood	30	24	1	31	12	237	8	114	9	101		
Castle Point	51	27	6	177	11	204	13	164	21	197		
Chelmsford	40	43	4	73	9	102	8	62	19	111		
Colchester	38	43	8	148	5	58	7	56	18	110		
Epping Forest	41	40	7	127	8	95	11	94	15	101		
Harlow	23	21	3	109	3	68	9	143	8	99		
Maldon	21	17	1	48	8	236	7	141	5	74		
Rochford	29	25	2	65	7	138	7	94	13	132		
Tendring	59	59	7	98	9	78	16	94	27	117		
Uttlesford	12	21	2	75	4	96	1	17	5	63		

Table 5 (cont'd)

Area			1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
	Deaths	Expected Deaths	Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
Hertfordshire	252	302	31	76	53	84	67	76	101	90		
Broxbourne	22	24	4	130	4	81	3	42	11	119		
Dacorum	35	40	3	57	7	85	13	112	12	80		
East Hertfordshire	20	34	3	68	3	43	5	50	9	68		
Hertsmere	21	30	4	97	5	80	6	70	6	55		
North Hertfordshire	29	35	3	64	7	96	6	58	13	97		
St Albans	21	39	1	19	5	61	3	27	12	84		
Stevenage	21	20	0	0	12	290	4	68	5	65		
Three Rivers	36	27	6	159	2	36	11	142	17	173		
Watford	19	21	3	97	1	22	5	83	10	132		
Welwyn Hatfield	28	31	4	94	7	106	11	121	6	52		
Norfolk	255	281	28	80	47	83	76	92	104	94		
Breckland	30	40	3	63	8	101	9	75	10	61		
Broadland	39	39	3	63	9	115	9	77	18	113		
Great Yarmouth	33	32	4	98	3	46	12	129	14	114		
Kings Lynn And West Norfolk	38	50	9	146	2	20	14	94	13	65		
North Norfolk	32	41	3	61	4	49	14	116	11	66		
Norwich	48	39	6	110	13	160	10	90	19	138		
South Norfolk	35	39	0	0	8	104	8	70	19	123	+	**
Suffolk	221	220	30	108	38	86	52	81	101	118		
Babergh	39	28	7	206	5	90	14	173	13	119		
Ipswich	48	38	9	169	8	100	14	129	17	125		
Mid Suffolk	18	28	4	116	1	18	3	37	10	90		
St Edmundsbury	23	29	1	28	2	34	7	80	13	112		
Suffolk Coastal	33	40	6	122	6	76	3	25	18	112		
Waveney	47	42	3	58	10	118	8	65	26	159		

Table 5 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
LONDON	1933	1949	312	108	434	105	540	100	647	98		
Inner London	633	684	125	119	142	96	173	92	193	87	-	**
Camden	38	50	8	110	4	38	12	86	14	84		
Hackney	32	47	8	107	8	78	11	87	5	33	-	*
Hammersmith & Fulham	28	40	7	112	8	94	6	56	7	54		
Haringey	25	51	2	25	6	55	7	50	10	60		
Islington	38	44	8	120	11	115	10	80	9	62		
Kensington & Chelsea	15	38	1	19	7	90	3	27	4	28		
Lambeth	37	63	11	110	5	36	6	35	15	76		
Lewisham	73	66	13	127	15	105	18	100	27	131		
Newham	136	54	31	367	34	292	40	268	31	177	-	**
Southwark	47	62	6	62	10	74	12	71	19	97		
Tower Hamlets	64	45	18	274	16	166	20	158	10	66	-	**
Wandsworth	65	67	8	75	15	102	18	99	24	117		
Westminster, City Of	34	54	4	50	3	26	10	65	17	95		

Table 5 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
Outer London	1300	1265	187	102	292	110	367	104	454	104		
Barking & Dagenham	147	50	28	374	35	327	40	288	44	266		
Barnet	56	91	4	31	11	58	21	83	20	63		
Bexley	97	67	14	152	22	158	31	162	30	123		
Brent	39	67	2	20	15	107	4	22	18	79		
Bromley	79	96	6	44	9	45	25	91	39	113	+	**
Croydon	53	89	2	16	12	64	15	59	24	76		
Ealing	59	79	10	85	13	77	13	60	23	86		
Enfield	52	78	4	35	14	85	7	32	27	100		
Greenwich	87	60	11	124	20	157	28	169	28	142		
Harrow	52	61	7	80	15	117	14	82	16	75		
Havering	138	75	22	209	31	195	46	211	39	142		
Hillingdon	103	70	9	90	27	181	32	162	35	143		
Hounslow	46	56	11	135	6	51	15	96	14	74		
Kingston Upon Thames	31	41	7	117	8	93	8	70	8	56		
Merton	40	51	8	106	11	103	8	57	13	75		
Redbridge	92	69	20	199	16	110	27	140	29	120		
Richmond Upon Thames	29	52	5	66	5	46	9	62	10	57		
Sutton	49	52	9	122	13	120	11	76	16	88		
Waltham Forest	51	61	8	85	9	69	13	79	21	109		

Table 5 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
SOUTH EAST	2904	2430	399	126	633	128	845	120	1027	112	-	**
Bracknell Forest UA	40	23	8	289	12	261	7	102	13	144	-	*
Brighton And Hove UA	48	83	7	59	8	46	9	39	24	86		
Isle Of Wight UA	96	52	12	183	24	230	30	203	30	154		
Medway UA	189	64	39	451	42	319	50	272	58	247	-	**
Milton Keynes UA	44	38	3	74	5	67	16	138	20	123		
Portsmouth UA	222	57	48	586	52	439	70	437	52	261	-	**
Reading UA	26	37	2	38	2	26	10	96	12	90		
Slough UA	39	28	7	174	4	68	15	188	13	127		
Southampton UA	207	64	37	413	63	476	52	288	55	243	-	**
West Berkshire UA	37	37	2	43	7	92	11	99	17	116		
Windsor And Maidenhead UA	43	41	4	72	5	58	14	116	20	130		
Wokingham UA	28	35	4	97	6	85	6	57	12	84		
Buckinghamshire	124	136	18	102	25	90	38	95	43	82		
Aylesbury Vale	30	40	7	139	6	74	8	67	9	56		
Chiltern	27	29	3	79	4	67	7	82	13	116		
South Bucks	29	21	3	106	7	158	10	161	9	113		
Wycombe	38	45	5	83	8	86	13	98	12	70		
East Sussex	124	190	12	50	26	69	32	59	54	75		
Eastbourne	23	35	2	45	5	72	7	70	9	68		
Hastings	23	28	1	27	3	52	7	88	12	118		
Lewes	26	35	1	23	8	114	4	39	13	96		
Rother	29	40	4	80	5	63	9	79	11	72		
Wealden	23	51	4	62	5	49	5	34	9	45		

Table 5 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
Hampshire	587	358	73	166	135	187	177	166	202	142	-	*
Basingstoke And Deane	41	38	4	84	6	78	15	133	16	109		
East Hampshire	41	31	9	235	7	111	16	171	9	72	-	*
Eastleigh	94	31	14	358	25	399	29	318	26	212	-	*
Fareham	68	32	10	271	17	269	17	177	24	182		
Gosport	52	21	5	183	13	302	12	195	22	271		
Hart	19	20	2	86	4	99	5	81	8	95		
Havant	93	38	11	235	20	256	35	305	27	177		
New Forest	86	64	7	91	22	172	20	106	37	146		
Test Valley	41	30	3	81	14	229	12	134	12	100		
Winchester	41	33	7	174	4	61	13	135	17	132		
Kent	437	426	62	111	98	112	118	95	159	99		
Ashford	24	30	0	0	7	116	10	114	7	59		
Canterbury	49	47	6	100	10	105	17	126	16	91		
Dartford	41	25	9	261	8	157	10	142	14	157		
Dover	38	37	5	103	8	107	8	75	17	125		
Gravesham	44	28	8	210	10	171	11	134	15	142		
Maidstone	36	42	8	148	10	118	6	49	12	76		
Sevenoaks	35	36	4	86	7	95	9	86	15	110		
Shepway	31	35	4	90	7	100	12	120	8	62		
Swale	50	35	9	198	10	139	10	97	21	156		
Thanet	48	50	3	45	11	106	12	83	22	121		
Tonbridge And Malling	22	30	2	51	7	112	8	90	5	42		
Tunbridge Wells	19	32	4	95	3	46	5	54	7	59		

Table 5 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
Oxfordshire	131	166	8	37	29	86	45	93	49	76		
Cherwell	24	33	2	49	3	45	11	114	8	62		
Oxford	14	35	1	21	3	42	5	51	5	40		
South Oxfordshire	35	38	3	61	6	78	12	110	14	97		
Vale Of White Horse	33	33	2	48	9	132	8	81	14	106		
West Oxfordshire	25	28	0	0	8	145	9	110	8	73		
Surrey	282	334	30	67	58	84	78	81	116	94		
Elmbridge	27	39	4	76	2	25	1	9	20	141	+	*
Epsom And Ewell	18	24	1	30	5	102	5	75	7	85		
Guildford	29	39	2	38	11	136	9	80	7	49		
Mole Valley	27	29	5	132	2	34	8	95	12	111		
Reigate And Banstead	32	40	2	36	6	73	12	106	12	83		
Runnymede	24	24	2	60	8	158	7	99	7	77		
Spelthorne	28	30	2	50	7	114	6	69	13	118		
Surrey Heath	26	21	2	77	5	117	7	111	12	143		
Tandridge	20	26	2	59	4	76	11	147	3	31		
Waverley	26	38	4	80	6	77	4	36	12	84		
Woking	25	25	4	117	2	38	8	110	11	118		
West Sussex	200	262	23	69	32	60	67	89	78	78		
Adur	24	23	4	134	4	86	7	107	9	106		
Arun	38	58	2	28	2	17	16	96	18	80	+	*
Chichester	27	42	2	38	4	47	11	91	10	63		
Crawley	22	25	6	182	4	77	9	121	3	29	-	**
Horsham	28	37	2	44	7	96	7	66	12	83		
Mid Sussex	30	38	3	61	4	51	10	89	13	89		
Worthing	31	39	4	77	7	88	7	65	13	95		

Table 5 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
SOUTH WEST	1648	1647	224	107	355	106	444	92	625	99		
Bath And North East Somerset UA	50	57	5	67	11	94	12	73	22	104		
Bournemouth UA	44	62	4	48	9	70	12	68	19	85		
Bristol, City Of UA	117	121	17	96	34	133	34	100	32	78		
North Somerset UA	58	63	10	130	7	55	14	75	27	108		
Plymouth UA	298	75	56	543	77	491	85	391	80	294	-	**
Poole UA	55	48	4	66	9	92	13	91	29	155	+	*
South Gloucestershire UA	61	65	7	88	11	84	14	72	29	111		
Swindon UA	95	48	27	439	20	203	27	193	21	116	-	**
Torbay UA	43	50	4	61	10	99	12	84	17	90		
Cornwall And Isles Of Scilly	160	177	21	96	34	96	39	75	66	95		
Caradon	52	27	10	297	11	199	13	161	18	166		
Carrick	35	32	4	99	10	153	7	73	14	111		
Kerrier	23	32	4	98	6	93	1	11	12	97		
North Cornwall	19	29	1	29	2	35	7	83	9	78		
Penwith	11	23	0	0	1	22	3	44	7	77	+	*
Restormel	19	32	2	51	4	62	7	74	6	47		

Table 5 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
Devon	208	255	28	89	38	75	48	65	94	95		
East Devon	36	55	7	106	4	37	10	63	15	69		
Exeter	25	32	3	70	9	139	5	55	8	68		
Mid Devon	10	23	2	70	0	0	4	59	4	44		
North Devon	31	32	3	75	8	124	8	86	12	97		
South Hams	32	30	5	136	6	100	7	79	14	119		
Teignbridge	29	45	2	37	3	34	5	38	19	108	+	*
Torridge	20	21	1	39	2	49	5	83	12	145	+	*
West Devon	25	17	5	229	6	172	4	79	10	147		
Dorset	135	151	11	60	21	70	35	79	68	113	+	**
Christchurch	27	21	4	156	3	73	8	132	12	145		
East Dorset	35	35	1	25	8	115	7	67	19	134		
North Dorset	13	20	1	41	2	50	5	84	5	61		
West Dorset	30	36	3	68	5	69	6	56	16	110		
Weymouth And Portland	23	21	2	73	2	46	8	130	11	135		
Gloucestershire	125	179	11	48	22	61	42	80	50	73		
Cheltenham	10	34	1	22	0	0	3	30	6	47	+	*
Cotswold	18	28	3	87	4	71	4	48	7	63		
Forest Of Dean	17	26	4	121	4	76	2	26	7	70		
Gloucester	32	31	1	24	6	95	11	123	14	119		
Stroud	28	35	0	0	4	56	12	115	12	88	+	*
Tewkesbury	20	24	2	69	4	83	10	139	4	41		

Table 5 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
Somerset	111	168	12	58	30	89	36	73	33	50		
Mendip	24	32	4	99	6	93	5	53	9	72		
Sedgemoor	35	35	3	69	11	155	15	142	6	43		
South Somerset	30	52	1	16	8	77	11	72	10	49		
Taunton Deane	14	33	3	71	1	15	4	41	6	46		
Wiltshire	88	129	7	43	22	85	21	56	38	75		
Kennet	13	22	1	35	7	158	1	16	4	47		
North Wiltshire	26	35	4	91	8	115	7	69	7	52		
Salisbury	24	36	0	0	3	41	5	47	16	113	+	**
West Wiltshire	25	36	2	45	4	56	8	76	11	78		

Table 5 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
WALES	607	951	64	51	105	54	195	70	243	68	+	*
Blaenau Gwent UA	8	24	0	0	0	0	2	29	6	70	+	**
Bridgend UA	12	42	0	0	2	23	2	16	8	52	+	*
Caerphilly UA	30	51	3	44	4	38	15	101	8	42		
Cardiff UA	82	87	13	109	15	83	17	67	37	117		
Carmarthenshire UA	42	63	3	36	5	38	16	86	18	76		
Ceredigion UA	11	24	0	0	3	62	6	83	2	20		
Conwy UA	24	43	2	37	6	69	6	47	10	61		
Denbighshire UA	32	34	2	45	7	100	12	122	11	87		
Flintshire UA	36	43	5	92	6	69	13	103	12	73		
Gwynedd UA	16	40	3	58	2	24	5	43	6	40		
Isle Of Anglesey UA	11	23	0	0	3	63	5	72	3	34		
Monmouthshire UA	9	28	0	0	0	0	3	36	6	54	+	**
Neath Port Talbot UA	21	48	3	46	3	30	7	50	8	46		
Newport UA	36	42	3	54	7	80	11	88	15	95		
Pembrokeshire UA	33	39	5	104	6	76	10	86	12	79		
Powys UA	12	45	2	35	3	33	4	30	3	17		
Rhondda, Cynon, Taff UA	38	74	5	49	6	39	13	61	14	52		
Swansea UA	65	77	5	49	13	82	22	98	25	87		
Torfaen UA	10	28	0	0	0	0	3	36	7	66	+	**
The Vale Of Glamorgan UA	40	37	7	149	6	78	11	100	16	112		
Wrexham UA	34	39	3	58	7	87	11	96	13	89		

Table 5 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
SCOTLAND	1871	1522	257	124	436	138	549	125	629	113	-	**
Aberdeen City UA	59	61	5	59	11	87	18	103	25	114		
Aberdeenshire UA	27	61	1	13	4	33	8	45	14	59		
Angus UA	19	35	2	44	2	28	2	19	13	97	+	*
Argyll And Bute UA	37	30	2	51	11	180	10	114	14	121		
Dumfries And Galloway UA	23	52	1	15	2	19	7	46	13	66	+	*
Dundee City UA	47	49	6	88	9	88	10	72	22	127		
East Ayrshire UA	24	37	2	39	7	90	8	74	7	51		
East Dunbartonshire UA	55	31	9	228	13	203	20	217	13	109	-	*
East Lothian UA	27	28	1	27	3	52	11	135	12	114		
East Renfrewshire UA	22	24	3	97	7	142	2	28	10	106		
Edinburgh, City Of UA	126	131	19	103	32	117	35	95	40	86		
Falkirk UA	51	43	8	136	18	200	8	64	17	107		
Fife UA	137	105	22	157	28	129	43	141	44	112		
Glasgow City UA	411	188	82	284	109	267	123	236	97	161	-	**
Highland UA	43	63	5	62	7	55	13	70	18	73		
Inverclyde UA	67	27	4	102	16	273	23	292	24	252		
Midlothian UA	18	23	4	131	1	21	6	89	7	80		
Moray UA	18	26	0	0	4	76	5	66	9	91		
North Ayrshire UA	50	40	3	58	8	97	18	153	21	139		
North Lanarkshire UA	81	87	9	75	21	114	18	71	33	104		
Perth And Kinross UA	17	45	2	35	2	22	2	15	11	64		
Renfrewshire UA	129	51	18	261	33	311	35	236	43	231		
Scottish Borders UA	12	37	2	41	2	27	4	37	4	29		
South Ayrshire UA	29	38	2	40	3	38	10	90	14	97		
South Lanarkshire UA	101	85	10	88	22	125	33	132	36	113		
Stirling UA	8	25	1	31	1	20	2	28	4	43		
West Dunbartonshire UA	178	28	31	779	46	776	54	677	47	479	-	**
West Lothian UA	35	35	2	44	10	138	12	114	11	80		

Notes: Only areas with 20 or more observed or expected mesothelioma deaths over the period 1981-2000 are included.

* Trend statistic statistically significant at the 5% level: ** Trend statistic statistically significant at the 1% level.

Table 6 

Mesothelioma Standardised Mortality Ratios for females in Great Britain by area and five year time period 1981-2000

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
GREAT BRITAIN	2761	2761	430		573		764		996			
ENGLAND & WALES	2488	2510	400	102	518	100	670	97	900	99		
ENGLAND	2401	2360	390	106	508	104	633	97	870	102		
NORTH EAST	216	129	39	193	54	201	50	140	73	160		
Durham	19	25	4	103	5	96	2	29	8	89		
Northumberland	12	16	0	0	3	92	3	68	6	104		
Tyne And Wear (Met County)	146	58	32	345	34	280	34	215	46	231		
Newcastle-Upon-Tyne	29	14	5	210	8	265	9	237	7	150		
Sunderland	79	14	22	1016	14	486	19	496	24	495		
NORTH WEST	332	343	64	117	82	114	77	82	109	91	-	*
Blackburn With Darwen UA	31	6	9	831	11	817	8	469	3	142	-	**
Cheshire	25	32	3	62	4	60	6	66	12	99		
Cumbria	20	26	3	75	4	74	5	69	8	83		
Greater Manchester (Met County)	106	123	17	84	28	108	28	84	33	78		
Lancashire	75	58	20	221	17	142	13	82	25	121	-	*
Merseyside (Met County)	59	74	10	83	17	109	11	55	21	83		
Liverpool	30	24	5	120	10	195	6	95	9	119		

Table 6 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
YORKSHIRE AND THE HUMBER	290	245	49	127	57	112	75	111	109	124		
North Yorkshire	24	30	5	114	3	50	10	121	6	54		
South Yorkshire (Met County)	25	64	3	29	6	45	7	39	9	40		
<i>Sheffield</i>	15	28	3	65	4	68	3	40	5	53		
West Yorkshire (Met County)	213	99	37	232	43	208	49	180	84	241		
<i>Bradford</i>	17	22	2	57	3	67	2	34	10	132		
<i>Kirklees</i>	41	18	3	103	9	239	12	241	17	266		
<i>Leeds</i>	115	35	24	422	24	328	22	232	45	371		
<i>Wakefield</i>	24	15	4	177	3	99	10	243	7	131		
EAST MIDLANDS	176	193	31	107	29	73	51	94	65	91		
Nottingham UA	28	13	4	185	8	290	9	257	7	164		
Derbyshire	33	36	2	37	8	108	4	40	19	143	+	*
Leicestershire	9	26	3	79	1	19	4	53	1	10		
Lincolnshire	19	31	2	45	0	0	8	88	9	73	+	**
Northamptonshire	25	26	5	131	4	76	7	96	9	93		
Nottinghamshire	51	35	12	228	6	83	15	150	18	136		

Table 6 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
WEST MIDLANDS	158	250	23	60	36	69	35	50	64	70		
Shropshire	6	14	0	0	2	70	2	50	2	37		
Staffordshire	20	36	4	77	4	55	4	39	8	58		
Warwickshire	12	23	2	58	7	146	0	0	3	34		
West Midlands (Met County)	82	125	13	65	18	68	22	63	29	66		
<i>Birmingham</i>	30	47	6	77	7	70	8	63	9	57		
Worcestershire	21	25	3	85	4	80	4	56	10	104		
EAST	258	247	38	104	44	87	82	118	94	100		
Bedfordshire	12	15	1	46	2	66	4	94	5	87		
Cambridgeshire	19	23	3	92	4	88	6	94	6	69		
Essex	81	61	13	146	11	88	24	139	33	141		
Hertfordshire	45	46	4	57	7	74	21	165	13	77		
Norfolk	42	42	8	132	8	94	11	93	15	93		
Suffolk	31	33	4	82	6	88	8	86	13	103		
LONDON	402	311	88	166	98	149	98	119	118	116	-	**
Inner London	127	109	35	181	28	120	27	95	37	110	-	*
<i>Newham</i>	29	8	11	731	7	391	5	230	6	233	-	**
Outer London	275	202	53	157	70	165	71	131	81	118	-	*
<i>Barking & Dagenham</i>	53	8	15	1091	14	802	15	683	9	332	-	**
<i>Bromley</i>	20	16	4	161	3	92	8	187	5	90		
<i>Havering</i>	21	12	4	220	4	165	8	246	5	117		
<i>Redbridge</i>	21	11	7	382	5	215	4	137	5	134		

Table 6 (cont'd)

Area	Deaths	Expected Deaths	1981-1985		1986-1990		1991-1995		1996-2000		Increasing (+) or decreasing (-) trend	Signifi.
			Deaths	Smr	Deaths	Smr	Deaths	Smr	Deaths	Smr		
SOUTH EAST	392	384	41	70	73	92	108	102	170	120	+	**
Southampton UA	22	10	2	125	3	144	8	293	9	257		
Buckinghamshire	23	20	5	167	4	98	8	142	6	80		
East Sussex	19	32	1	20	3	45	5	57	10	85		
Hampshire	53	55	4	51	12	108	16	102	21	98		
Kent	74	68	11	106	12	86	17	91	34	137		
Oxfordshire	27	25	3	81	3	59	4	57	17	181	+	*
Surrey	55	52	3	37	12	112	16	112	24	128	+	*
West Sussex	36	44	2	30	6	66	11	92	17	106	+	*
SOUTH WEST	178	258	17	44	35	66	57	79	69	71		
Bristol, City Of UA	21	20	2	61	5	121	5	96	9	139		
Cornwall And Isles Of Scilly	23	27	2	50	5	90	6	78	10	95		
Devon	21	40	1	17	2	25	8	72	10	66		
Dorset	16	23	1	30	4	84	7	106	4	44		
Gloucestershire	17	28	1	25	4	71	5	64	7	67		
Somerset	11	26	0	0	4	76	4	55	3	30		
Wiltshire	14	20	0	0	3	75	3	54	8	107		
WALES	86	150	10	43	10	32	37	88	29	53		
SCOTLAND	273	253	29	73	54	103	94	135	96	106		
Edinburgh, City Of UA	19	23	4	105	2	41	9	146	4	51		
Glasgow City UA	60	34	10	170	9	124	19	215	22	206		
West Dunbartonshire UA	22	5	0	0	8	780	8	586	6	347		

Notes: Only areas with 20 or more observed or expected mesothelioma deaths over the period 1981-2000 are included.

* Trend statistic statistically significant at the 5% level: ** Trend statistic statistically significant at the 1% level.

Figure 1

Map of Great Britain showing Male SMRs by LA or UA

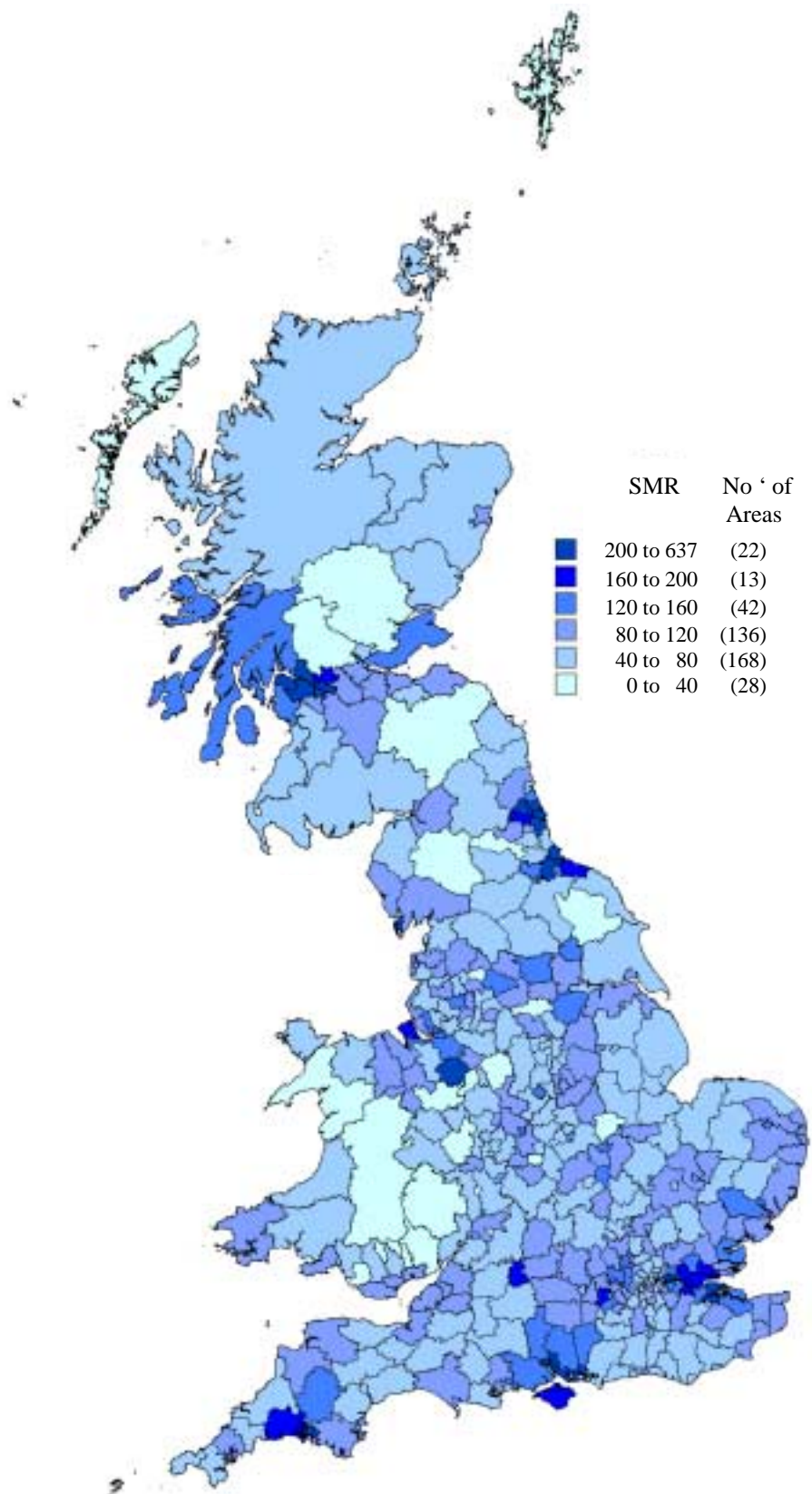


Figure 2

Map of Great Britain showing Female SMRs by LA or UA

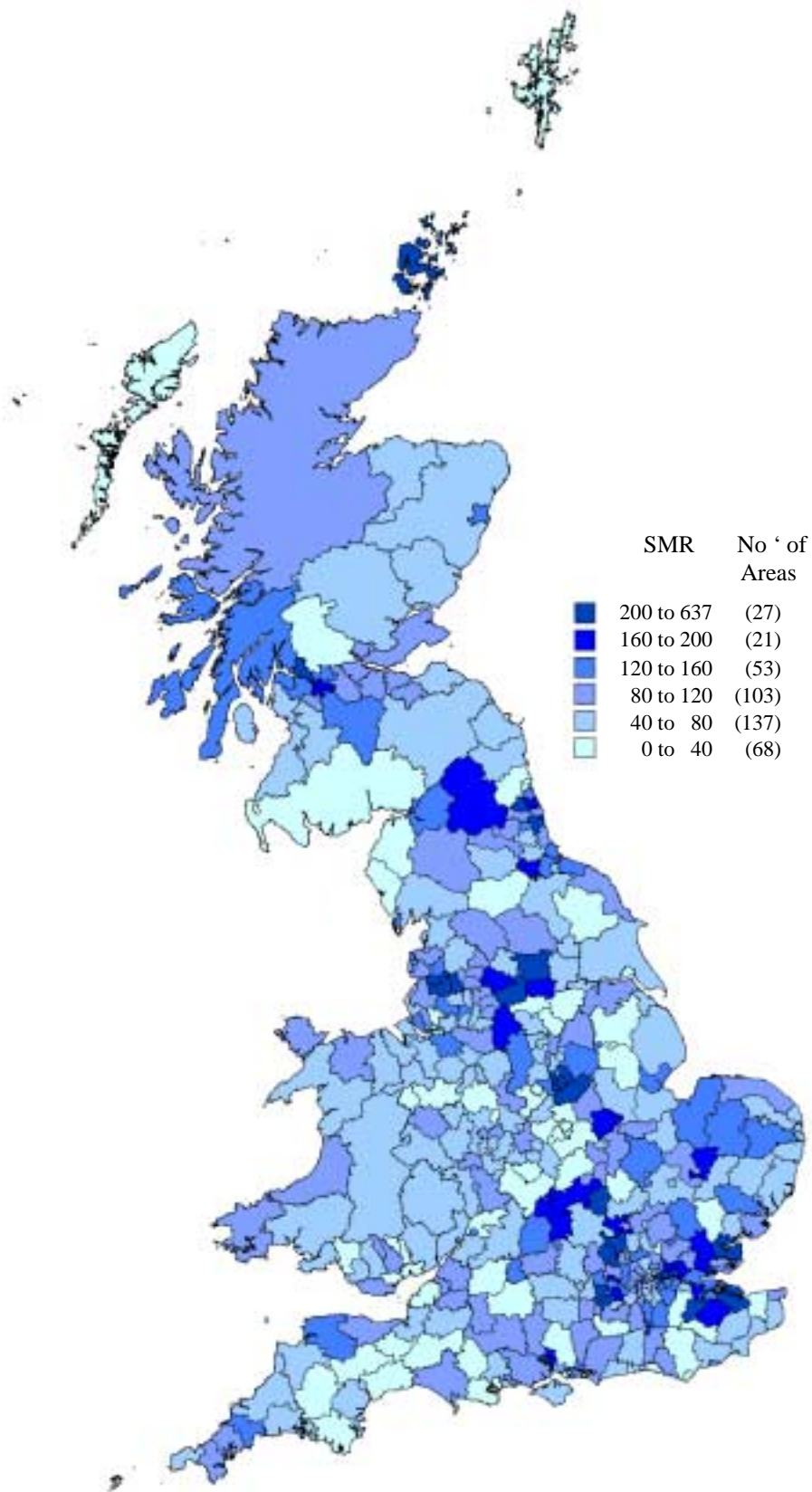
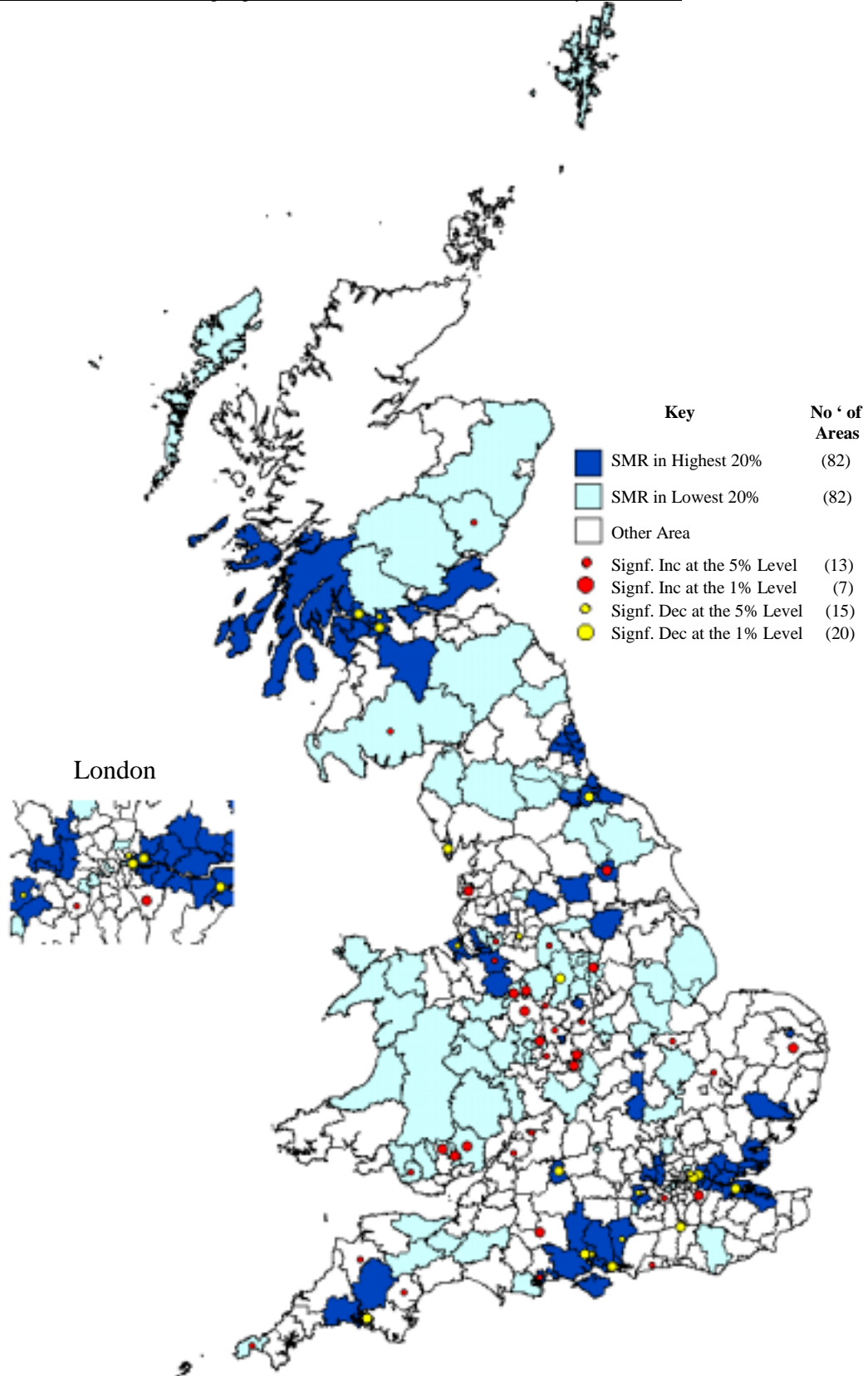


Figure 3

Map of Great Britain showing significant trends over time for males by LA or UA



Note: See [Table 5](#) for further details of areas with significant trends over time

Appendix 2

Calculation of SMRs

The Standardised Mortality Ratio (SMR) [1,2] is a measure of relative mortality in a study population compared to that in some standard population, which takes into account the age structure of the study population. The method of age standardisation used in the production of SMRs is commonly referred to as the indirect method. Age-specific death rates in a standard population are applied to the age structure of the study population (i.e. the particular geographical area being considered) to calculate an expected number of deaths for the study population (in this analysis Great Britain death rates for males or females for a given sex or year over the period 1981-2000 were used as the standard). The ratio of the observed number of deaths to the expected number of deaths in the area is calculated and multiplied by 100 to give the SMR. The SMR of the standard population is 100. An SMR greater or less than 100 indicates a respectively higher or lower than expected mortality rate in a specific area.

[Table A](#) illustrates the calculation of an SMR for men in area A. The total population of Great Britain is used as the standard population, column 1. The mesothelioma death rate per 1,000 in the population for each age group (column 3) is the total number of male mesothelioma deaths (column 2) divided by the total number of men in Great Britain (column 1) to give age-specific death rates in the standard population. These rates are applied to the total population in area A, given in column 4, to give the expected numbers of deaths in this area, in column 6. The total observed number of deaths, shown in column 5, (1,196) divided by the expected number of deaths (2,024), multiplied by 100 gives an SMR of 59.

Table A:**Example of an SMR calculation**

Age group	All men			Men in area A		
	Population, (thousands)	Mesothelioma deaths	Death rate Per 1,000	Population, (thousands)	Mesothelioma deaths	Expected deaths
	(1)	(2)	(3) = (2) / (1)	(4)	(5)	(6)=(3)*(4)
0-4	28,554	0	0.000	6,926	0	0.0
5-9	29,683	0	0.000	8,514	0	0.0
10-14	32,324	0	0.000	9,286	0	0.0
15-19	35,061	1	0.000	8,729	0	0.2
20-24	34,931	1	0.000	7,833	0	0.2
25-29	32,949	5	0.000	7,907	2	1.2
30-34	31,188	16	0.001	7,770	7	3.9
35-39	29,220	76	0.003	6,443	17	16.7
40-44	27,454	199	0.007	6,222	32	45.1
45-49	24,983	402	0.016	6,243	76	100.4
50-54	24,398	705	0.029	6,391	136	184.7
55-59	24,001	1,145	0.048	6,269	179	299.1
60-64	22,155	1,436	0.065	5,367	183	347.9
65-69	19,554	1,499	0.077	4,997	222	383.1
70-74	15,232	1,315	0.086	3,729	177	321.9
75-79	10,232	930	0.091	2,176	112	197.8
80-84	5,176	472	0.091	1,007	40	91.8
85+	2,503	145	0.058	525	13	30.4
All ages	429,600	8,347		106,334	1,196	2024.5

Confidence intervals and statistical significance

An SMR calculated for an occupation group may be greater or less than 100 by chance. Confidence intervals are used to give an indication of the uncertainty associated with each SMR due to this random variation. A 95% confidence interval is such that, if the calculation could be repeated many times with different samples of the events, then 95% of the time, the confidence interval will contain the true value of the SMR. If the lower confidence limit for a SMR is greater than 100 then the SMR is said to be statistically significantly elevated at the 2.5% level. Likewise, if the upper confidence interval that is presented is lower than 100 then the SMR is said to be statistically significantly lower at the 2.5% level.

Ranking according to the value of the lower confidence interval takes into account both the degree to which the SMR is greater than 100 and the statistical uncertainty

associated with it. Thus a high SMR based on few cases would have a lower rank than a similar SMR based on a larger number of cases.

Methodology for trend tests

The SMRs for each time period (given in [Tables 5](#) and [6](#)) for a given area will also fluctuate by chance, especially when areas have a small number of cases. To take account of such variation and determine whether there is evidence that SMRs for areas have increased or decreased over time, a statistical test based on case-control study methodology was carried out (adjusted test of trend based on the statistic given by Armitage and Mantel)[[3](#) chapter 4, pp 146-150]. Two levels of statistical significance were assessed and indicated where appropriate on [tables 5](#) and [6](#). A single star denotes areas where a trend was found to be significant at the 5% level - i.e. there is a 5% chance that the apparent trend is a result of chance alone. Two stars denote areas where a trend was found to be significant at the 1% level - i.e. there is a 1% chance that the apparent trend is a result of chance alone.

Statistical Artefacts

Because of the large number of statistical tests carried out in this fact sheet there is an increased likelihood that some of the significant results will be due to chance. This will affect both the significant results in the trend tests and those confidence intervals that demonstrate statistically significant areas. For example, over 400 areas are presented in [Table 3](#) (SMRs for 1981-2000 for males), and so typically around 10 areas would be expected to show statistically elevated SMRs simply due to random variation.

References

- (1) Esteve, J, Benhamou, E, Raymond, L “*Statistical Methods in Cancer Research Volume IV – Descriptive Epidemiology*” IARC Scientific Publications N° 128 1994 ISBN 92 832 2128 1
- (2) Fleiss, J, *Statistical Methods for Rates and Proportions* John Wiley & Sons, inc. 1973 ISBN 0 471 26370 2
- (3) Breslow NE and Day NE (1980) *Statistical Methods in Cancer Research, Vol 1, The Analysis of Case-Control Studies (IARC Scientific Publications No. 32)*, Lyon, International Agency for Research on Cancer. ISBN 92 832 11324

Enquiry contact point:

Epidemiology and Medical Statistics Unit
Health and Safety Executive
Room 244
Magdalen House
Stanley Precinct
Bootle
Merseyside L20 3QZ

Tel: 0151 951 3479 / 3051

HSE publications:

Latest mesothelioma statistics summary:

www.hse.gov.uk/statistics/causdis/meso.htm

The following leaflets are also available - free from HSE Books at:

HSE Books
PO BOX 1999
Sudbury
Suffolk
CO10 2WA
(Tel: 01787 881165).

“Asbestos Dust: The Hidden Killer. Are you at risk? Essential advice for building maintenance, repair and refurbishment workers”, INDG 187L

“Asbestos alert for building maintenance, repair and refurbishment workers”, INDG 188P- a pocket card for workers.

“Asbestos dust kills. Keep your mask on.” INDG 255

“Working with asbestos in buildings” INDG 289

“A short guide to managing asbestos in premises” INDG 223 (rev 3)