

Table 3.5a Age-standardised rates† (per million) for 1969-93 for England and Wales wards, subdivided into groups using quintiles of Carstairs index of socio-economic status

Diagnostic group	Group										p [#] hetero	p [‡] trend
	1 Least deprived		2		3		4		5 Most deprived			
	No	ASR	No	ASR	No	ASR	No	ASR	No	ASR		
1 Leukaemias	1503	40.8	1490	41.5	1606	39.4	2066	37.2	3046	35.6	***	***
Lymphoid & unspecified leukaemia	1214	33.1	1225	34.2	1325	32.5	1645	29.7	2438	28.5	***	***
2 Lymphomas & reticuloendothelial neoplasms	457	11.7	409	11.0	511	12.2	641	11.4	956	11.2	-	-
Hodgkin's disease	181	4.6	162	4.3	202	4.8	263	4.7	410	4.8	-	-
Non-Hodgkin lymphoma	244	6.4	215	5.9	266	6.4	323	5.8	470	5.5	-	*
3 CNS & misc. intracranial & intraspinal neoplasms	1070	28.4	985	27.0	1083	26.3	1453	26.0	2157	25.3	*	**
Astrocytoma	408	10.8	376	10.3	380	9.2	545	9.8	819	9.6	-	-
Primitive neuroectodermal tumours (PNET)	236	6.3	192	5.3	216	5.3	300	5.4	421	4.9	-	*
4 Sympathetic nervous system tumours	254	7.1	274	7.8	324	8.1	412	7.5	631	7.4	-	-
5 Retinoblastoma	116	3.3	104	3.0	136	3.4	201	3.7	282	3.3	-	-
Retinoblastoma – unilateral	77	2.2	63	1.8	85	2.1	118	2.1	180	2.1	-	-
Retinoblastoma – bilateral	38	1.1	40	1.2	48	1.2	77	1.4	94	1.1	-	-
6 Renal tumours	275	7.8	246	7.0	261	6.5	396	7.2	533	6.2	-	-
7 Hepatic tumours	36	1.0	29	0.8	32	0.8	55	1.0	83	1.0	-	-
8 Malignant bone tumours	214	5.4	195	5.2	263	6.2	282	5.0	419	4.9	*	*
Osteosarcoma	115	2.9	99	2.6	131	3.1	163	2.9	236	2.8	-	-
Ewing's sarcoma	89	2.3	86	2.3	111	2.6	100	1.8	154	1.8	**	**
9 Soft tissue sarcomas	280	7.6	274	7.5	347	8.5	417	7.5	591	6.9	-	-
10 Germ cell, trophoblastic & other gonadal neoplasms	135	3.6	135	3.7	119	2.9	187	3.3	315	3.7	-	-
11 Carcinoma & other malignant epithelial neoplasms	132	3.4	120	3.2	143	3.4	166	2.9	237	2.8	-	*
12 Other & unspecified malignant neoplasms	20	0.5	23	0.6	12	0.3	26	0.5	37	0.4	-	-
All cancer	4492	120.5	4284	118.4	4837	118.0	6302	113.2	9287	108.6	***	***
All cancer minus leukaemia	2989	79.8	2794	76.9	3231	78.6	4236	76.0	6241	73.0	**	***

† Age Standardised Rate. This is the rate for ages 0-14 years standardised according to a uniform age distribution, (i.e. the rate obtained by averaging the age-specific rates weighted as though there were equal numbers of children in each five year age group)

* p<0.05
 ** p<0.01
 *** p<0.001
 - non-significant

Significance test for group differences in crude incidence rates

‡ Significance test for trend in crude incidence rates

Table 3.5b Age-standardised rates† (per million) for 1969-93 for England and Wales wards, subdivided into groups using quintiles of degree of overcrowding

Diagnostic group	Group										p #	p ‡
	1		2		3		4		5			
	No	ASR	No	ASR	No	ASR	No	ASR	No	ASR		
1 Leukaemias	1390	41.0	1571	40.5	1627	38.5	1984	37.6	3139	36.1	*	***
Lymphoid & unspecified leukaemia	1134	33.6	1280	33.1	1331	31.6	1603	30.4	2499	28.8	**	***
2 Lymphomas & reticuloendothelial neoplasms	416	11.5	488	12.2	493	11.5	582	10.9	995	11.5	-	-
Hodgkin's disease	170	4.6	194	4.8	181	4.2	249	4.6	424	4.9	-	-
Non-Hodgkin lymphoma	219	6.2	253	6.4	261	6.1	301	5.7	484	5.6	-	*
3 CNS & misc. intracranial & intraspinal neoplasms	987	28.3	1110	28.2	1089	25.6	1367	25.8	2195	25.3	**	***
Astrocytoma	376	10.7	420	10.6	386	9.1	532	10.0	814	9.4	*	*
Primitive neuroectodermal tumours (PNET)	208	6.0	217	5.6	235	5.5	280	5.3	425	4.9	-	*
4 Sympathetic nervous system tumours	235	7.2	311	8.2	333	8.0	384	7.3	632	7.3	-	-
5 Retinoblastoma	112	3.5	134	3.6	130	3.1	190	3.7	273	3.1	-	-
Retinoblastoma – unilateral	78	2.4	87	2.3	78	1.9	116	2.2	164	1.9	-	-
Retinoblastoma – bilateral	33	1.0	45	1.2	50	1.2	68	1.3	101	1.2	-	-
6 Renal tumours	237	7.3	276	7.3	294	7.0	345	6.6	559	6.4	-	-
7 Hepatic tumours	33	1.0	29	0.8	34	0.8	44	0.8	95	1.1	-	-
8 Malignant bone tumours	193	5.2	235	5.8	237	5.5	286	5.3	422	4.9	-	*
Osteosarcoma	109	2.9	114	2.8	129	3.0	150	2.8	242	2.8	-	-
Ewing's sarcoma	75	2.0	111	2.7	92	2.1	108	2.0	154	1.8	**	**
9 Soft tissue sarcomas	262	7.6	335	8.6	301	7.1	412	7.8	599	6.9	*	-
10 Germ cell, trophoblastic & other gonadal neoplasms	138	4.0	139	3.5	136	3.2	183	3.5	295	3.4	-	-
11 Carcinoma & other malignant epithelial neoplasms	125	3.4	140	3.5	124	2.9	170	3.2	239	2.8	-	*
12 Other & unspecified malignant neoplasms	21	0.6	18	0.5	20	0.5	22	0.4	37	0.4	-	-
All cancer	4149	120.5	4786	122.4	4818	113.6	5969	112.8	9480	109.2	***	***
All cancer minus leukaemia	2759	79.5	3215	81.9	3191	75.1	3985	75.2	6341	73.1	***	***

† Age Standardised Rate. This is the rate for ages 0-14 years standardised according to a uniform age distribution, (i.e. the rate obtained by averaging the age-specific rates weighted as though there were equal numbers of children in each five year age group)

* p<0.05
 ** p<0.01
 *** p<0.001
 - non-significant

Significance test for group differences in crude incidence rates

‡ Significance test for trend in crude incidence rates

Table 3.5c Age-standardised rates† (per million) for 1969-93 for England and Wales wards, subdivided into groups using quintiles of population density

Diagnostic group	Groups										p #	p ‡
	1		2		3		4		5			
	No	ASR	No	ASR	No	ASR	No	ASR	No	ASR		
	Highest density								Lowest density			
1 Leukaemias	3188	37.4	2734	38.1	2029	38.2	1152	38.9	608	40.7	-	-
Lymphoid & unspecified leukaemia	2571	30.2	2217	31.0	1597	30.2	965	32.6	497	33.4	-	-
2 Lymphomas & reticuloendothelial neoplasms	1011	11.9	828	11.3	605	11.1	353	11.5	177	11.2	-	-
Hodgkin's disease	423	5.0	335	4.5	240	4.4	151	4.9	69	4.2	-	-
Non-Hodgkin lymphoma	503	5.9	423	5.8	320	5.9	177	5.8	95	6.1	-	-
3 CNS & misc. intracranial & intraspinal neoplasms	2095	24.6	1997	27.6	1428	26.6	792	26.3	436	28.3	**	*
Astrocytoma	769	9.0	754	10.4	524	9.7	314	10.4	167	10.8	*	*
Primitive neuroectodermal tumours (PNET)	416	4.9	385	5.3	317	5.9	169	5.6	78	5.1	-	-
4 Sympathetic nervous system tumours	625	7.3	534	7.5	385	7.4	244	8.4	107	7.4	-	-
5 Retinoblastoma	272	3.2	274	3.9	160	3.1	91	3.2	42	3.0	-	-
Retinoblastoma – unilateral	172	2.0	162	2.3	107	2.1	54	1.9	28	2.0	-	-
Retinoblastoma – bilateral	97	1.1	102	1.5	48	0.9	36	1.3	14	1.0	-	-
6 Renal tumours	540	6.3	490	6.9	354	6.8	219	7.6	108	7.5	-	-
7 Hepatic tumours	83	1.0	72	1.0	47	0.9	20	0.7	13	0.9	-	-
8 Malignant bone tumours	425	5.0	394	5.3	293	5.3	174	5.6	87	5.3	-	-
Osteosarcoma	240	2.8	215	2.9	146	2.6	95	3.0	48	2.9	-	-
Ewing's sarcoma	154	1.8	153	2.1	131	2.4	67	2.1	35	2.2	-	*
9 Soft tissue sarcomas	579	6.8	539	7.5	441	8.3	229	7.6	121	7.9	-	*
10 Germ cell, trophoblastic & other gonadal neoplasms	288	3.4	257	3.6	192	3.6	104	3.5	50	3.3	-	-
11 Carcinoma & other malignant epithelial neoplasms	265	3.1	209	2.8	166	3.0	98	3.2	60	3.7	-	-
12 Other & unspecified malignant neoplasms	42	0.5	31	0.4	24	0.5	14	0.5	7	0.5	-	-
All cancer	9413	110.5	8359	116.1	6124	114.7	3490	116.9	1816	119.8	*	**
All cancer minus leukaemia	6225	73.1	5625	78.0	4095	76.5	2338	77.9	1208	79.1	**	**

† Age Standardised Rate. This is the rate for ages 0-14 years standardised according to a uniform age distribution, (i.e. the rate obtained by averaging the age-specific rates weighted as though there were equal numbers of children in each five year age group)

* p<0.05
 ** p<0.01
 *** p<0.001
 - non-significant

Significance test for group differences in crude incidence rates

‡ Significance test for trend in crude incidence rates

Table 3.5d Age-standardised rates† (per million) for 1969-93 for England and Wales wards, grouped according to urban/rural classification

Diagnostic group	Classification												p [#] hetero	p [‡] trend
	1 Most urbanised		2		3		4		5		6 Most rural			
	No	ASR	No	ASR	No	ASR	No	ASR	No	ASR	No	ASR		
1 Leukaemias	6735	37.9	1718	38.0	394	37.0	157	43.6	57	37.7	650	40.4	-	-
Lymphoid & unspecified leukaemia	5444	30.7	1358	30.1	326	30.7	127	35.4	52	34.3	540	33.7	-	-
2 Lymphomas & reticuloendothelial neoplasms	2096	11.7	502	10.9	123	11.2	43	11.5	15	9.4	195	11.4	-	-
Hodgkin's disease	848	4.7	221	4.7	53	4.8	13	3.4	8	5.0	75	4.3	-	-
Non-Hodgkin lymphoma	1072	6.0	249	5.4	58	5.3	24	6.4	7	4.4	108	6.4	-	-
3 CNS & misc. intracranial & intraspinal neoplasms	4659	26.1	1218	26.7	279	25.8	86	23.4	53	34.5	453	27.4	-	-
Astrocytoma	1711	9.6	464	10.1	119	11.0	33	9.0	24	15.7	177	10.6	-	-
Primitive neuroectodermal tumours (PNET)	909	5.1	279	6.1	62	5.8	21	5.7	8	5.2	86	5.3	-	-
4 Sympathetic nervous system tumours	1304	7.4	349	7.8	93	8.9	17	4.8	12	8.1	120	7.7	-	-
5 Retinoblastoma	589	3.4	152	3.4	38	3.7	12	3.4	4	2.8	44	2.9	-	-
Retinoblastoma – unilateral	369	2.1	88	2.0	24	2.3	10	2.9	2	1.4	30	2.0	-	-
Retinoblastoma – bilateral	203	1.2	63	1.4	13	1.3	2	0.6	2	1.4	14	0.9	-	-
6 Renal tumours	1157	6.6	308	6.9	83	7.9	37	10.5	16	10.8	110	7.2	-	-
7 Hepatic tumours	172	1.0	36	0.8	11	1.0	3	0.8	2	1.4	11	0.7	-	-
8 Malignant bone tumours	933	5.2	252	5.4	63	5.7	27	7.1	5	3.1	93	5.3	-	-
Osteosarcoma	507	2.8	135	2.9	32	2.9	14	3.6	4	2.4	52	2.9	-	-
Ewing's sarcoma	364	2.0	103	2.2	27	2.4	10	2.6	0	0.0	36	2.1	-	-
9 Soft tissue sarcomas	1285	7.2	368	8.1	83	7.8	26	7.1	15	9.8	132	8.1	-	-
10 Germ cell, trophoblastic & other gonadal neoplasms	620	3.5	158	3.5	36	3.4	18	4.9	7	4.6	52	3.2	-	-
11 Carcinoma & other malignant epithelial neoplasms	557	3.1	129	2.8	35	3.1	14	3.7	3	1.9	60	3.5	-	-
12 Other & unspecified malignant neoplasms	83	0.5	20	0.4	5	0.5	1	0.3	1	0.7	8	0.5	-	-
All cancer	20190	113.4	5210	114.7	1243	115.9	441	121.1	190	124.8	1928	118.2	-	-
All cancer minus leukaemia	13455	75.5	3492	76.7	849	79.0	284	77.5	133	87.1	1278	77.8	-	-

† Age Standardised Rate. This is the rate for ages 0-14 years standardised according to a uniform age distribution, (i.e. the rate obtained by averaging the age-specific rates weighted as though there were equal numbers of children in each five year age group)

* p<0.05
 ** p<0.01
 *** p<0.001
 - non-significant

Significance test for group differences in crude incidence rates

‡ Significance test for trend in crude incidence rates