

**Appendix 6a of ‘An Atlas of Tobacco Smoking Scotland’,
NHS Health Scotland**

**Detailed tables on smoking attributable mortality for
Scotland, 1950 – 2004**

Calculated by Jillian Boreham (CTSU, University of Oxford)

**MORTALITY FROM SMOKING
IN DEVELOPED COUNTRIES
1950–2000**

(2nd edition, revised June 2006
www.deathsfromsmoking.net)

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SCOTLAND (incl 2004)

Raw data (pages 2–3, 4–5)

Analyses (pages 6–7, 8–9, 10–11)

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SCOTLAND: 2004

		No. of deaths (Source: WHO)			Standardised rates (defined overleaf)			Annual death rates / 100,000 (zero denoted by -)						
		All ages	0-34	35-69	All ages	0-34	35-69	0-4	5-9	10-14	15-19	20-24	25-29	30-34
ALL CAUSES	M	26775	968	8968	895.7	89.9	921.6	140.5	14.1	14.1	62.5	110.2	131.0	156.9
	F	29412	455	5812	613.4	43.0	551.8	97.2	10.6	14.1	32.5	38.5	42.9	65.1
Tuberculosis	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
HIV	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Other infective and parasitic	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
ALL CANCER	M	7664	65	2938	255.5	5.9	313.5	5.9	2.7	3.7	4.8	4.9	6.2	13.3
	F	7383	76	2572	179.6	6.8	245.8	6.2	3.5	5.8	1.9	5.0	7.5	18.0
Mouth and pharynx cancer	M	175	-	83	6.0	-	8.6	-	-	-	-	-	-	-
	F	77	-	24	1.8	-	2.3	-	-	-	-	-	-	-
Oesophagus cancer	M	491	-	234	16.7	-	24.1	-	-	-	-	-	-	-
	F	287	1	86	6.6	0.1	8.3	-	-	-	-	-	0.7	-
Stomach cancer	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Colorectal cancer	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Liver cancer	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Pancreas cancer	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Larynx cancer	M	97	-	46	3.3	-	4.8	-	-	-	-	-	-	-
	F	25	-	8	0.6	-	0.8	-	-	-	-	-	-	-
Lung cancer	M	2151	2	915	72.1	0.2	99.8	-	-	-	-	-	-	1.2
	F	1772	3	651	44.2	0.2	63.4	-	-	-	0.6	-	-	1.1
Malignant melanoma	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Female breast cancer	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Cervix cancer	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Other uterine cancer	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Ovarian cancer	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Prostate cancer	M	...	...	...	...	...	...	...	...	...	...	...	...	...
Bladder cancer	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Other and ill-defined cancer sites	M	4750	63	1660	157.4	5.8	176.3	5.9	2.7	3.7	4.8	4.9	6.2	12.1
	F	5222	72	1803	126.4	6.5	171.1	6.2	3.5	5.8	1.3	5.0	6.8	16.8
Hodgkin's disease	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Myeloma and all lymphomas	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Leukaemia	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Diabetes	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
ALL VASCULAR DISEASE	M	9761	45	2796	317.6	4.0	294.4	0.7	-	-	3.6	1.2	6.2	16.3
	F	11076	36	1300	206.3	3.2	127.5	4.7	-	0.6	1.9	3.1	3.4	9.0
Rheumatic heart disease and fever	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Hypertensive disease	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Ischaemic heart disease	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Pulmonary embolism and other venous	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Cerebrovascular disease	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Other vascular disease, incl. venous	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Chronic obstructive pulmonary disease	M	1404	4	315	44.9	0.3	34.9	-	-	-	0.6	0.6	-	1.2
	F	1504	2	301	32.3	0.2	30.3	-	-	0.6	-	0.6	-	-
Other respiratory disease	M	1593	13	281	50.7	1.2	29.3	2.2	0.7	-	0.6	1.2	1.4	2.4
	F	2242	9	178	39.1	0.8	16.9	1.6	-	-	-	-	2.0	2.2
Peptic ulcer	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Liver cirrhosis	M	697	23	584	26.1	2.0	54.9	-	-	-	-	0.6	3.5	10.3
	F	342	8	270	11.4	0.7	23.6	-	-	-	-	-	1.4	3.4
Renal disease	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Pregnancy, birth Congenital and perinatal causes	F	...	...	...	...	...	...	...	...	...	...	...	...	...
	M	...	...	...	...	...	...	...	...	...	...	...	...	...
Ill-defined causes	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Other medical causes	M	4148	409	1314	144.0	39.8	129.9	126.4	4.7	4.9	14.9	33.5	54.1	39.8
	F	5945	221	908	121.3	22.1	84.0	82.4	5.0	5.1	11.3	13.7	20.4	16.8
ALL NON- MEDICAL CAUSES	M	1508	409	740	57.0	36.6	64.7	5.2	6.1	5.5	38.1	68.2	59.6	73.6
	F	920	103	283	23.4	9.1	23.7	2.3	2.1	1.9	17.5	16.1	8.2	15.7
Road traffic accidents	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Fire	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Suicide	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Homicide	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
POPULATION: (1000s; UN, 2004 revision)			M=male		2446.2	1088.4	1131.1	134.5	148.7	162.9	168.0	164.3	144.3	165.7
			F=female		2632.3	1071.9	1205.1	128.6	141.2	156.0	160.0	161.1	146.9	178.1

2004: SCOTLAND

Annual death rates / 100,000 (zero denoted by -)									9th ICD/10th ICD categories			
35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+/NK			
205.3	256.9	401.2	594.0	924.3	1634.0	2435.5	4027.0	6365.8	13277.9	M	ALL CAUSES	001-999/A00-Y89
101.1	137.8	239.1	371.6	585.0	924.1	1503.8	2510.6	4313.6	11442.3	F		
...	...	...	...	...	...	...	...	...	...	M	Tuberculosis	
...	...	...	...	...	...	...	...	...	...	F		
...	...	...	...	...	...	...	...	...	...	M	HIV	Not given separately
...	...	...	...	...	...	...	...	...	...	F		
...	...	...	...	...	...	...	...	...	...	M	Other infective and parasitic	
...	...	...	...	...	...	...	...	...	...	F		
18.3	37.8	97.3	164.0	321.3	596.1	959.6	1480.0	1991.2	2929.0	M	ALL CANCER	140-208/C00-C97
29.6	47.5	90.1	161.9	298.4	419.1	673.8	916.9	1249.2	1742.7	F		
0.5	1.0	3.4	5.5	11.0	19.3	19.3	33.4	42.8	48.3	M	Mouth and pharynx cancer	140-149/C00-C14
-	-	1.1	1.2	4.1	4.3	5.4	10.2	11.2	21.5	F		
2.1	3.1	8.5	16.6	31.8	52.5	54.4	92.8	119.5	136.0	M	Oesophagus cancer	150/C15
-	-	3.2	3.6	14.8	14.9	21.4	38.2	41.9	81.7	F		
...	...	...	...	...	...	...	...	...	...	M	Stomach cancer	
...	...	...	...	...	...	...	...	...	...	F		
...	...	...	...	...	...	...	...	...	...	M	Colorectal cancer	
...	...	...	...	...	...	...	...	...	...	F		
...	...	...	...	...	...	...	...	...	...	M	Liver cancer	Not given separately
...	...	...	...	...	...	...	...	...	...	F		
...	...	...	...	...	...	...	...	...	...	M	Pancreas cancer	Not given separately
...	...	...	...	...	...	...	...	...	...	F		
0.5	0.5	1.7	3.1	6.1	10.8	10.5	18.3	23.6	27.2	M	Larynx cancer	161/C32
-	-	0.5	0.6	1.2	1.4	1.5	3.4	3.1	7.2	F		
1.6	6.7	26.0	45.5	84.3	208.5	325.7	440.1	572.3	661.6	M	Lung cancer	162/C33, C34
1.9	8.7	10.8	41.8	77.0	119.9	183.8	261.2	374.9	317.6	F		
...	...	...	...	...	...	...	...	...	...	M	Malignant melanoma	Not given separately
...	...	...	...	...	...	...	...	...	...	F		
...	...	...	...	...	...	...	...	...	...	F	Female breast cancer	
...	...	...	...	...	...	...	...	...	...	F	Cervix cancer	
...	...	...	...	...	...	...	...	...	...	F	Other uterine cancer	
...	...	...	...	...	...	...	...	...	...	F	Ovarian cancer	Not given separately
...	...	...	...	...	...	...	...	...	...	M	Prostate cancer	
...	...	...	...	...	...	...	...	...	...	F		
...	...	...	...	...	...	...	...	...	...	M	Bladder cancer	Not given separately
...	...	...	...	...	...	...	...	...	...	F		
13.6	26.4	57.7	93.4	188.1	305.0	549.6	895.4	1233.0	2055.9	M	Other and ill-defined cancer sites	Rest of 140-199/ rest of C00-C80, C97
27.7	38.8	74.5	114.7	201.3	278.7	461.7	603.9	818.2	1314.7	F		
...	...	...	...	...	...	...	...	...	...	M	Hodgkin's disease	Not given separately
...	...	...	...	...	...	...	...	...	...	F		
...	...	...	...	...	...	...	...	...	...	M	Myeloma and all lymphomas	
...	...	...	...	...	...	...	...	...	...	F	Leukaemia	
...	...	...	...	...	...	...	...	...	...	M		
...	...	...	...	...	...	...	...	...	...	F	Diabetes	
...	...	...	...	...	...	...	...	...	...	M		
...	...	...	...	...	...	...	...	...	...	F		
31.3	54.9	108.7	172.6	280.4	566.8	846.4	1514.6	2529.5	5741.7	M	ALL VASCULAR DISEASE	390-459/I00-199
12.6	19.9	36.7	68.1	107.2	226.2	421.9	843.1	1639.4	5119.0	F		
...	...	...	...	...	...	...	...	...	...	M	Rheumatic heart disease and fever	
...	...	...	...	...	...	...	...	...	...	F	Hypertensive disease	
...	...	...	...	...	...	...	...	...	...	M		
...	...	...	...	...	...	...	...	...	...	F		
...	...	...	...	...	...	...	...	...	...	M	Ischaemic heart disease	
...	...	...	...	...	...	...	...	...	...	F		
...	...	...	...	...	...	...	...	...	...	M	Pulmonary embolism and other venous	Not given separately
...	...	...	...	...	...	...	...	...	...	F		
...	...	...	...	...	...	...	...	...	...	M	Cerebrovascular disease	
...	...	...	...	...	...	...	...	...	...	F		
...	...	...	...	...	...	...	...	...	...	M	Other vascular disease, incl. venous	
...	...	...	...	...	...	...	...	...	...	F		
0.5	3.1	5.7	16.0	22.0	73.4	123.8	238.4	452.8	841.4	M	Chronic obstructive pulmonary disease	490-496/ J40-J47, J67
1.0	2.4	3.8	7.2	25.5	69.5	102.6	213.7	346.3	437.3	F		
5.2	5.7	7.4	19.0	30.5	61.8	75.5	212.5	364.3	1291.5	M	Other respiratory disease	Rest of 460-519/ rest of J00-J98
2.4	2.4	9.2	9.6	22.5	25.5	46.7	115.4	258.4	1194.3	F		
...	...	...	...	...	...	...	...	...	...	M	Peptic ulcer	
...	...	...	...	...	...	...	...	...	...	F		
18.8	29.0	50.4	59.0	74.5	71.8	80.8	43.1	53.1	21.1	M	Liver cirrhosis	571/K70, K74
8.7	12.1	25.9	27.5	29.6	30.5	30.6	23.7	23.5	9.3	F		
...	...	...	...	...	...	...	...	...	...	M	Renal disease	Not given separately
...	...	...	...	...	...	...	...	...	...	F		
...	...	...	...	...	...	...	...	...	...	F	Pregnancy, birth	
...	...	...	...	...	...	...	...	...	...	M	Congenital and perinatal causes	
...	...	...	...	...	...	...	...	...	...	F	Ill-defined causes	
...	...	...	...	...	...	...	...	...	...	M		
...	...	...	...	...	...	...	...	...	...	F		
54.3	55.4	67.3	103.8	138.1	196.9	293.2	463.9	859.9	2132.9	M	Other medical causes	Rest of 001-799/ rest of A00-R99
27.2	30.6	49.6	70.5	76.4	132.6	201.4	352.0	707.9	2658.1	F		
76.8	70.9	64.5	59.6	57.4	67.2	56.2	74.4	115.0	320.2	M	ALL NON-MEDICAL CAUSES	E800-E999/V01-Y89
19.4	22.8	23.7	26.9	25.5	20.6	26.8	45.8	88.9	281.7	F		
...	...	...	...	...	...	...	...	...	...	M	Road traffic accidents	Not given separately
...	...	...	...	...	...	...	...	...	...	F		
...	...	...	...	...	...	...	...	...	...	M	Fire	Not given separately
...	...	...	...	...	...	...	...	...	...	F		
...	...	...	...	...	...	...	...	...	...	M	Suicide	Not given separately
...	...	...	...	...	...	...	...	...	...	F		
...	...	...	...	...	...	...	...	...	...	M	Homicide	Not given separately
...	...	...	...	...	...	...	...	...	...	F		
191.4	193.1	176.7	162.8	163.7	129.5	113.9	92.7	67.8	66.2	M	POPULATION	
205.8	206.1	185.3	167.4	168.9	141.0	130.6	117.9	97.9	139.5	F	(1000s; UN, 2004 revision)	

SCOTLAND: 1995, 2004

Male smoking-attributed deaths (Sm.) and total deaths (Total)

		ALL CAUSES	ALL CANCER	Lung cancer	Upper aero-digestive ca. (see below)	Other cancer	COPD	Other respiratory	Vascular disease	Liver cirrhosis	Other medical	Non-medical
1995												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	1204	70	1	2	67	5	31	60	9	483	546
35-69	Sm.	3735	1671	1095	259	317	314	104	1337	-	309	-
	Total	10312	3324	1170	387	1767	387	334	4326	289	987	665
		(36%)	(50%)	(94%)	(67%)	(18%)	(81%)	(31%)	(31%)		(31%)	
70+	Sm.	4925	2038	1323	230	485	894	268	1430	-	295	-
	Total	17275	4374	1410	332	2632	1107	1613	8121	61	1736	263
		(29%)	(47%)	(94%)	(69%)	(18%)	(81%)	(17%)	(18%)		(17%)	
Any age	Sm.	8660	3709	2418	489	802	1208	372	2767	-	604	-
	Total	28791	7768	2581	721	4466	1499	1978	12507	359	3206	1474
		(30%)	(48%)	(94%)	(68%)	(18%)	(81%)	(19%)	(22%)		(19%)	
2004												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	968	65	2	0	63	4	13	45	23	409	409
35-69	Sm.	2539	1263	833	212	218	236	67	663	-	310	-
	Total	8968	2938	915	363	1660	315	281	2796	584	1314	740
		(28%)	(43%)	(91%)	(58%)	(13%)	(75%)	(24%)	(24%)		(24%)	
70+	Sm.	3984	1803	1131	248	424	816	163	894	-	308	-
	Total	16839	4661	1234	400	3027	1085	1299	6920	90	2425	359
		(24%)	(39%)	(92%)	(62%)	(14%)	(75%)	(13%)	(13%)		(13%)	
Any age	Sm.	6523	3066	1964	460	642	1052	230	1557	-	618	-
	Total	26775	7664	2151	763	4750	1404	1593	9761	697	4148	1508
		(24%)	(40%)	(91%)	(60%)	(14%)	(75%)	(14%)	(16%)		(15%)	

To be conservative, no deaths before age 35, and none from liver cirrhosis or non-medical causes, were attributed to smoking

Male death rates used for calculations: ICD codes as on previous page

	All ages	0-34	35-69	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+/ <i>NK</i>
POPULATION (1000s; UN, 2004 revision)													
1995	2453.5	1223.0	1031.6	184.3	166.3	174.5	142.4	132.9	122.2	109.0	89.8	55.0	54.1
2004	2446.2	1088.4	1131.1	191.4	193.1	176.7	162.8	163.7	129.5	113.9	92.7	67.8	66.2
NUMBER OF DEATHS (Source: WHO)													
All causes													
1995	28791	1204	10312	279	419	736	1010	1613	2531	3724	4725	4379	8171
2004	26775	968	8968	393	496	709	967	1513	2116	2774	3733	4316	8790
Lung cancer													
1995	2581	1	1170	2	14	55	87	186	324	502	523	432	455
2004	2151	2	915	3	13	46	74	138	270	371	408	388	438
ANNUAL DEATH RATE / 100,000 (*The rates for the age groups 0-34 and 35-69 are the means of seven five-yearly rates, but the all-ages rates are standardised to the conventional "European" age distribution)													
All causes													
1995	1088.0*	95.8*	1176.5*	151.4	252.0	421.8	709.3	1213.7	2071.2	3416.5	5261.7	7961.8	15103.5
2004	895.7*	89.9*	921.6*	205.3	256.9	401.2	594.0	924.3	1634.0	2435.5	4027.0	6365.8	13277.9
All cancer													
1995	293.9*	5.4*	386.1*	15.7	52.9	101.4	228.2	416.1	712.8	1175.2	1642.5	2230.9	3090.6
2004	255.5*	5.9*	313.5*	18.3	37.8	97.3	164.0	321.3	596.1	959.6	1480.0	1991.2	2929.0
Lung cancer													
1995	97.3*	0.1*	138.3*	1.1	8.4	31.5	61.1	140.0	265.1	460.6	582.4	785.5	841.0
2004	72.1*	0.2*	99.8*	1.6	6.7	26.0	45.5	84.3	208.5	325.7	440.1	572.3	661.6
Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)													
1995	28.1*	0.2*	43.8*	-	6.6	12.0	47.1	59.4	86.7	94.5	147.0	172.7	194.1
2004	26.0*	-	37.5*	3.1	4.7	13.6	25.2	48.9	82.6	84.3	144.6	185.8	211.5
Other cancer													
1995	168.5*	5.2*	204.0*	14.7	37.9	57.9	120.1	216.7	360.9	620.2	913.1	1272.7	2055.5
2004	157.4*	5.8*	176.3*	13.6	26.4	57.7	93.4	188.1	305.0	549.6	895.4	1233.0	2055.9
Chronic obstructive pulmonary disease (COPD)													
1995	55.1*	0.4*	46.9*	0.5	3.6	6.3	7.7	36.9	84.3	189.0	336.3	543.6	935.3
2004	44.9*	0.3*	34.9*	0.5	3.1	5.7	16.0	22.0	73.4	123.8	238.4	452.8	841.4
Other respiratory disease													
1995	73.3*	2.5*	38.3*	6.5	7.2	12.6	19.0	40.6	63.8	118.3	294.0	592.7	1890.9
2004	50.7*	1.2*	29.3*	5.2	5.7	7.4	19.0	30.5	61.8	75.5	212.5	364.3	1291.5
Vascular disease													
1995	469.1*	4.7*	502.4*	27.7	70.4	147.3	278.1	507.9	912.4	1573.4	2467.7	3752.7	7099.8
2004	317.6*	4.0*	294.4*	31.3	54.9	108.7	172.6	280.4	566.8	846.4	1514.6	2529.5	5741.7
Liver cirrhosis													
1995	14.7*	0.6*	30.2*	2.7	15.6	27.5	33.7	48.9	47.5	35.8	39.0	30.9	16.6
2004	26.1*	2.0*	54.9*	18.8	29.0	50.4	59.0	74.5	71.8	80.8	43.1	53.1	21.1
Other medical causes													
1995	123.8*	39.7*	107.3*	42.9	43.9	57.3	70.9	102.3	191.5	242.2	412.0	687.3	1826.2
2004	144.0*	39.8*	129.9*	54.3	55.4	67.3	103.8	138.1	196.9	293.2	463.9	859.9	2132.9
All non-medical causes													
1995	58.1*	42.6*	65.3*	55.3	58.3	69.3	71.6	60.9	58.9	82.6	70.2	123.6	244.0
2004	57.0*	36.6*	64.7*	76.8	70.9	64.5	59.6	57.4	67.2	56.2	74.4	115.0	320.2

Rates and calculations for some earlier years are in Peto, Lopez et al, 1994

1995, 2004: SCOTLAND

Female smoking-attributed deaths (Sm.) and total deaths (Total)

		ALL CAUSES	ALL CANCER	Lung cancer	Upper aero-digestive ca. (see below)	Other cancer	COPD	Other respiratory	Vascular disease	Liver cirrhosis	Other medical	Non-medical
1995												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	597	69	0	3	66	8	14	46	7	307	146
35-69	Sm.	1966	749	557	91	101	272	74	667	-	204	-
	Total	6699	2843	648	147	2048	344	250	2151	180	691	240
		(29%)	(26%)	(86%)	(62%)	(5%)	(79%)	(30%)	(31%)		(30%)	
70+	Sm.	5082	1324	895	193	236	787	401	2036	-	534	-
	Total	24413	4544	992	276	3276	940	2635	12375	61	3323	535
		(21%)	(29%)	(90%)	(70%)	(7%)	(84%)	(15%)	(16%)		(16%)	
Any age	Sm.	7048	2073	1452	284	337	1059	475	2703	-	738	-
	Total	31709	7456	1640	426	5390	1292	2899	14572	248	4321	921
		(22%)	(28%)	(89%)	(67%)	(6%)	(82%)	(16%)	(19%)		(17%)	
2004												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	455	76	3	1	72	2	9	36	8	221	103
35-69	Sm.	1631	708	554	70	84	234	50	381	-	258	-
	Total	5812	2572	651	118	1803	301	178	1300	270	908	283
		(28%)	(28%)	(85%)	(59%)	(5%)	(78%)	(28%)	(29%)		(28%)	
70+	Sm.	5319	1460	1011	192	257	1017	345	1677	-	820	-
	Total	23145	4735	1118	270	3347	1201	2055	9740	64	4816	534
		(23%)	(31%)	(90%)	(71%)	(8%)	(85%)	(17%)	(17%)		(17%)	
Any age	Sm.	6950	2168	1565	262	341	1251	395	2058	-	1078	-
	Total	29412	7383	1772	389	5222	1504	2242	11076	342	5945	920
		(24%)	(29%)	(88%)	(67%)	(7%)	(83%)	(18%)	(19%)		(18%)	

To be conservative, no deaths before age 35, and none from liver cirrhosis or non-medical causes, were attributed to smoking

Female death rates used for calculations

	All ages	0-34	35-69	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+/ NK
POPULATION (1000s; UN, 2004 revision)													
1995	2650.5	1212.2	1095.5	190.6	169.4	176.3	147.7	142.7	137.4	131.4	121.2	90.0	131.6
2004	2632.3	1071.9	1205.1	205.8	206.1	185.3	167.4	168.9	141.0	130.6	117.9	97.9	139.5
NUMBER OF DEATHS (Source: WHO)													
All causes													
1995	31709	597	6699	165	270	462	638	957	1644	2563	3886	4598	15929
2004	29412	455	5812	208	284	443	622	988	1303	1964	2960	4223	15962
Lung cancer													
1995	1640	-	648	4	10	34	70	86	172	272	386	291	315
2004	1772	3	651	4	18	20	70	130	169	240	308	367	443
ANNUAL DEATH RATE / 100,000 (*The rates for the age groups 0-34 and 35-69 are the means of seven five-yearly rates, but the all-ages rates are standardised to the conventional "European" age distribution)													
All causes													
1995	709.6*	48.8*	679.7*	86.6	159.4	262.1	432.0	670.6	1196.5	1950.5	3206.3	5108.9	12104.1
2004	613.4*	43.0*	551.8*	101.1	137.8	239.1	371.6	585.0	924.1	1503.8	2510.6	4313.6	11442.3
All cancer													
1995	196.5*	5.2*	286.8*	30.4	77.3	125.9	217.3	313.2	500.0	743.5	1038.8	1228.9	1655.8
2004	179.6*	6.8*	245.8*	29.6	47.5	90.1	161.9	298.4	419.1	673.8	916.9	1249.2	1742.7
Lung cancer													
1995	44.2*	-	66.7*	2.1	5.9	19.3	47.4	60.3	125.2	207.0	318.5	323.3	239.4
2004	44.2*	0.2*	63.4*	1.9	8.7	10.8	41.8	77.0	119.9	183.8	261.2	374.9	317.6
Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)													
1995	10.7*	0.2*	15.2*	0.5	0.6	4.0	11.5	14.7	24.0	51.0	64.4	63.3	107.1
2004	9.0*	0.1*	11.3*	-	-	4.9	5.4	20.1	20.6	28.3	51.7	56.2	110.4
Other cancer													
1995	141.6*	4.9*	204.9*	27.8	70.8	102.7	158.4	238.3	350.8	485.5	655.9	842.2	1309.3
2004	126.4*	6.5*	171.1*	27.7	38.8	74.5	114.7	201.3	278.7	461.7	603.9	818.2	1314.7
Chronic obstructive pulmonary disease (COPD)													
1995	30.8*	0.6*	36.1*	-	2.4	5.1	10.2	25.9	73.5	135.5	204.6	301.1	319.9
2004	32.3*	0.2*	30.3*	1.0	2.4	3.8	7.2	25.5	69.5	102.6	213.7	346.3	437.3
Other respiratory disease													
1995	53.9*	1.2*	25.3*	4.2	7.1	7.9	19.0	23.8	41.5	73.8	153.5	362.2	1613.2
2004	39.1*	0.8*	16.9*	2.4	2.4	9.2	9.6	22.5	25.5	46.7	115.4	258.4	1194.3
Vascular disease													
1995	298.3*	3.5*	223.2*	10.5	18.9	47.6	100.9	195.5	411.9	777.0	1421.6	2554.4	6347.3
2004	206.3*	3.2*	127.5*	12.6	19.9	36.7	68.1	107.2	226.2	421.9	843.1	1639.4	5119.0
Liver cirrhosis													
1995	8.6*	0.5*	17.4*	3.1	7.7	15.3	25.1	21.0	29.8	19.8	17.3	21.1	16.0
2004	11.4*	0.7*	23.6*	8.7	12.1	25.9	27.5	29.6	30.5	30.6	23.7	23.5	9.3
Other medical causes													
1995	97.3*	26.3*	68.7*	21.0	28.9	31.8	39.9	71.5	114.3	173.5	327.6	551.1	1846.5
2004	121.3*	22.1*	84.0*	27.2	30.6	49.6	70.5	76.4	132.6	201.4	352.0	707.9	2658.1
All non-medical causes													
1995	24.2*	11.5*	22.1*	17.3	17.1	28.4	19.6	19.6	25.5	27.4	42.9	90.0	305.5
2004	23.4*	9.1*	23.7*	19.4	22.8	23.7	26.9	25.5	20.6	26.8	45.8	88.9	281.7

Rates and calculations for some earlier years are in Peto, Lopez et al, 1994

SCOTLAND: 2004

Relative importance of deaths in MIDDLE age (35–69) in the year 2004

Age range (years)	Deaths attributed to SMOKING /total deaths (thousands)		Mean years lost PER DEATH FROM SMOKING
	Male	Female	
0–34	– / 1.0	– / 0.5	–
35–69	2.5 / 9.0	1.6 / 5.8	22 years
70+	4.0 / 17	5.3 / 23	8 years
All ages	6.5 / 27	6.9 / 29	12 years

Deaths, by cause, attributed to SMOKING / total deaths (thousands) in the year 2004

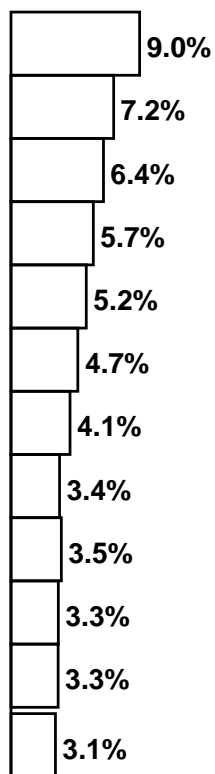
Cause	Male (by age)				Female (by age)			
	0–34	35–69	70+	All	0–34	35–69	70+	All
Lung Cancer	–/0.0	0.8/0.9	1.1/1.2	2.0/2.2	–/0.0	0.6/0.7	1.0/1.1	1.6/1.8
All Cancer	–/0.1	1.3/2.9 (43%)	1.8/4.7 (39%)	3.1/7.7	–/0.1	0.7/2.6 (28%)	1.5/4.7 (31%)	2.2/7.4
Vascular	–/0.0	0.7/2.8	0.9/6.9	1.6/9.8	–/0.0	0.4/1.3	1.7/9.7	2.1/11
Respiratory	–/0.0	0.3/0.6	1.0/2.4	1.3/3.0	–/0.0	0.3/0.5	1.4/3.3	1.6/3.7
All Other	–/0.8	0.3/2.6	0.3/2.9	0.6/6.4	–/0.3	0.3/1.5	0.8/5.4	1.1/7.2
All Causes	–/1.0	2.5/9.0 (28%)	4.0/17 (24%)	6.5/27	–/0.5	1.6/5.8 (28%)	5.3/23 (23%)	6.9/29

Cancer deaths, and all deaths, attributed to SMOKING / total deaths (thousands) in the year 2004

Cause	Male	Female	Male + Female
All Cancer	3.1 / 7.7 (40%)	2.2 / 7.4 (29%)	5.2 / 15 (35%)
All Causes	6.5 / 27 (24%)	6.9 / 29 (24%)	13 / 56 (24%)

1950-2004: SCOTLAND

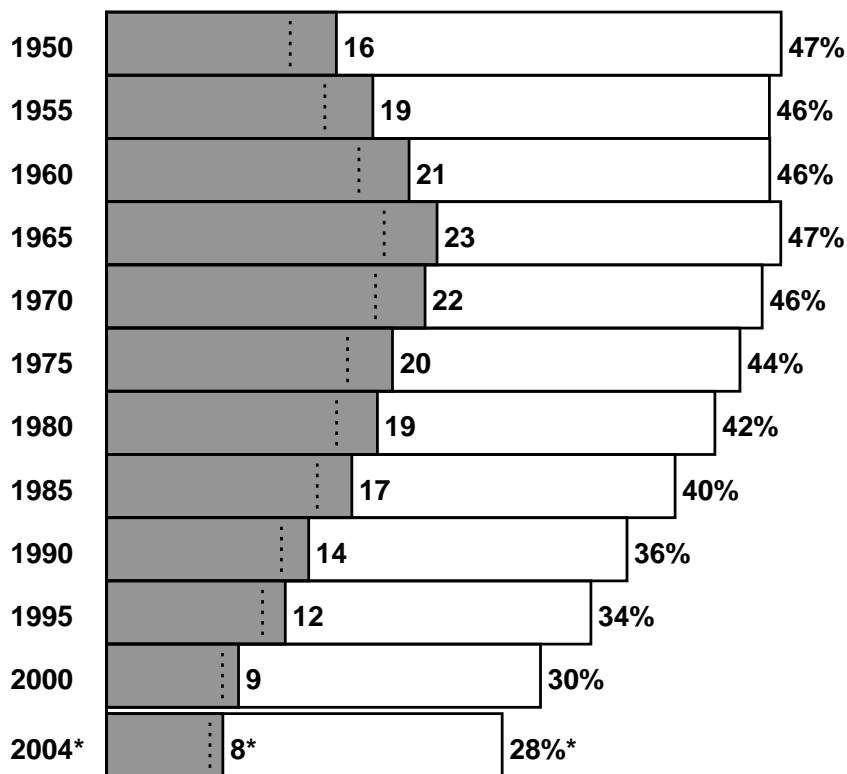
Population risk of dying at ages 0-34



Population risk of a 35-year-old dying at ages 35-69 from smoking (shaded) or from any cause (shaded and white)

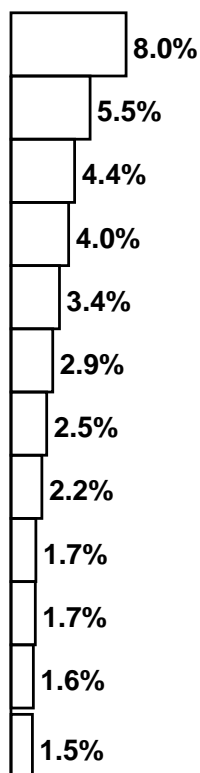
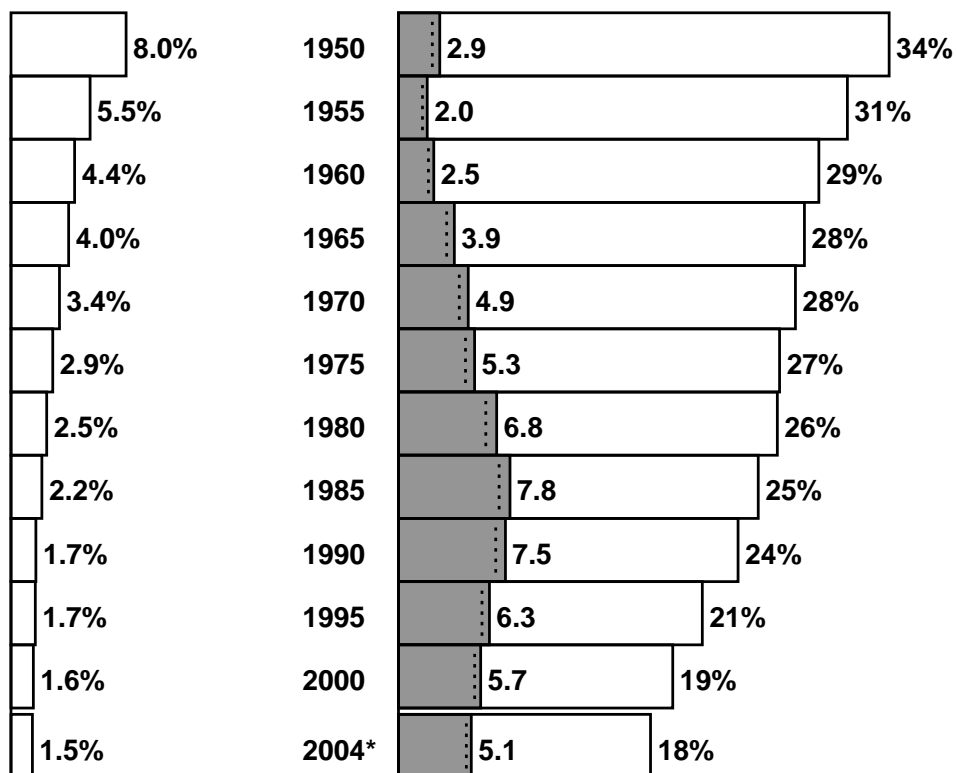
*eg, at year 2004 male death rates, out of 100 men aged 35, 28 would die before age 70 (with 8 of these deaths attributed to smoking)

MALE



Note: Most of those killed by smoking would otherwise have survived beyond age 70, but a minority (shaded area to right of dotted line) would have died by 70 anyway

FEMALE



SCOTLAND: 1950-2004

Numbers of deaths attributed to smoking / total deaths (thousands)

Year	Male (by age)				Female (by age)			
	0-34	35-69	70+	All	0-34	35-69	70+	All
1950	-/4.0	5.1/14 (37%)	0.7/14 (5%)	5.8/32	-/3.5	1.0/11 (9%)	0.4/17 (2%)	1.4/32
1955	-/3.0	5.8/14 (42%)	1.3/15 (9%)	7.1/31	-/2.3	0.7/10 (6%)	0.4/18 (2%)	1.1/30
1960	-/2.8	6.8/14 (47%)	2.4/14 (16%)	9.1/32	-/1.9	0.9/10 (9%)	0.4/18 (2%)	1.3/30
1965	-/2.5	7.7/15 (50%)	3.3/15 (23%)	11/33	-/1.7	1.4/10 (14%)	0.6/19 (3%)	2.0/30
1970	-/2.2	7.6/15 (49%)	4.3/15 (29%)	12/33	-/1.4	1.8/9.9 (18%)	1.1/20 (6%)	2.9/31
1975	-/1.8	6.6/15 (45%)	4.9/16 (31%)	12/32	-/1.1	1.9/9.3 (20%)	1.4/21 (7%)	3.3/31
1980	-/1.6	6.0/13 (44%)	5.2/17 (31%)	11/32	-/0.9	2.3/8.9 (26%)	1.8/22 (8%)	4.1/32
1985	-/1.3	5.2/12 (43%)	5.5/18 (31%)	11/31	-/0.8	2.5/8.1 (31%)	3.2/24 (13%)	5.6/33
1990	-/1.3	4.3/11 (38%)	4.8/17 (28%)	9.1/30	-/0.6	2.4/7.7 (31%)	3.6/24 (15%)	6.0/32
1995	-/1.2	3.7/10 (36%)	4.9/17 (29%)	8.7/29	-/0.6	2.0/6.7 (29%)	5.1/24 (21%)	7.0/32
2000	-/1.1	2.8/9.4 (30%)	4.3/17 (25%)	7.1/28	-/0.5	1.8/6.1 (29%)	5.1/24 (22%)	6.9/30
2004	-/1.0	2.5/9.0 (28%)	4.0/17 (24%)	6.5/27	-/0.5	1.6/5.8 (28%)	5.3/23 (23%)	6.9/29

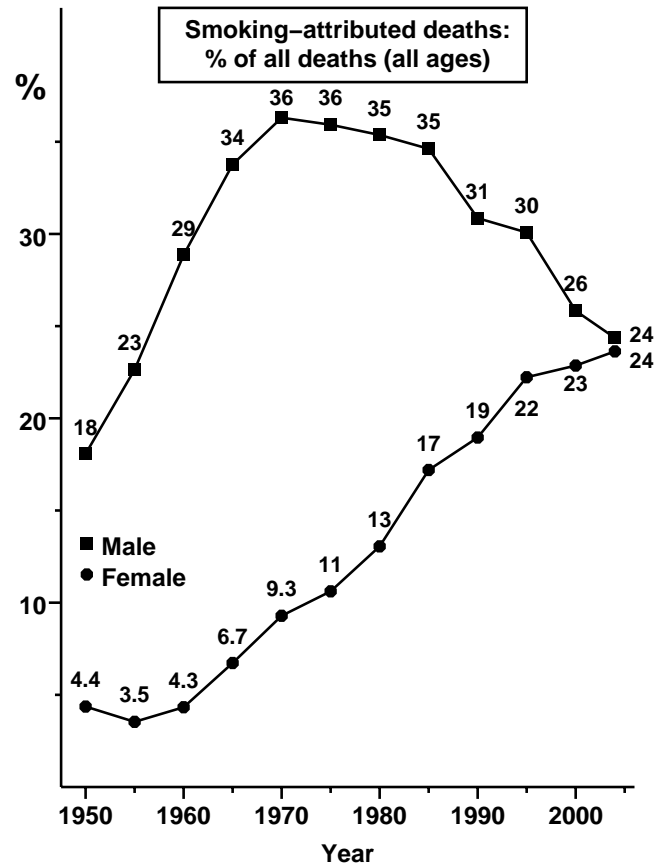
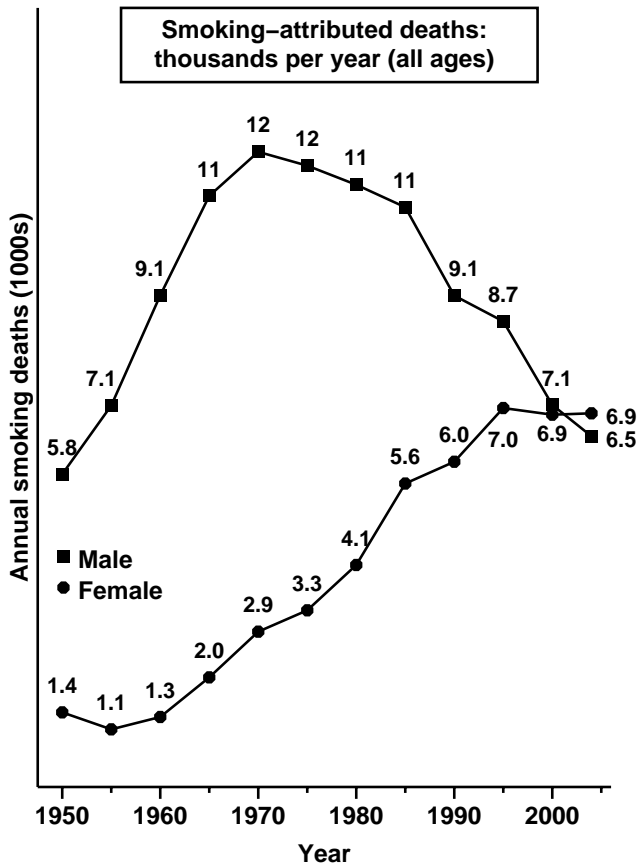
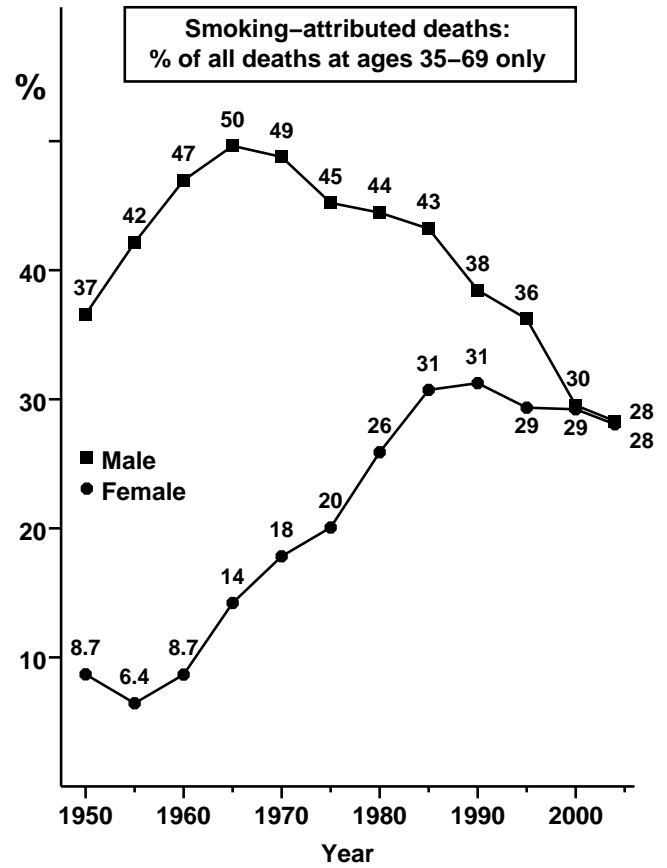
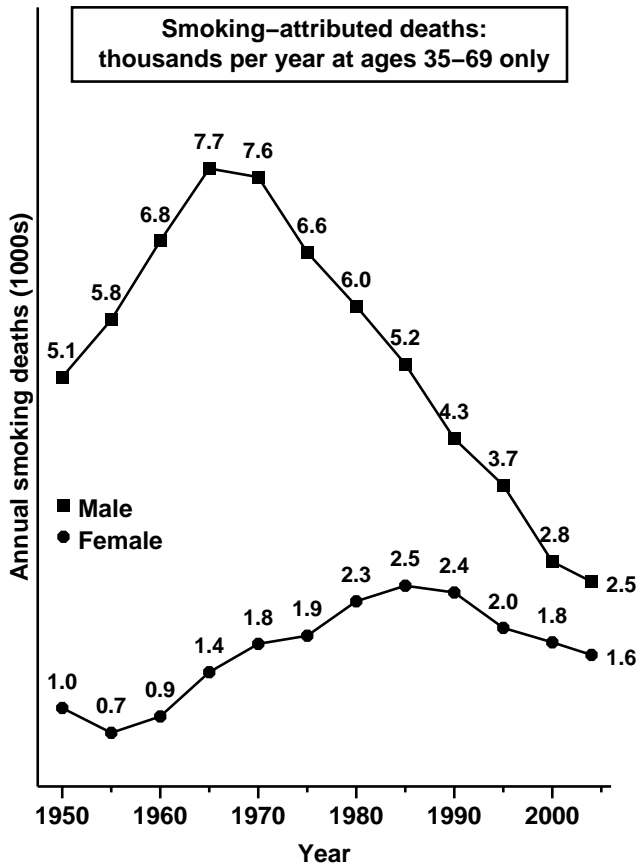
50-year total* (thousands), mid-1950 to mid-2000: 682 / 3121

1950-2000 by age & sex:

-/99	290/662 (44%)	200/799 (25%)	491/1560	-/65	84/444 (19%)	107/1053 (10%)	191/1561
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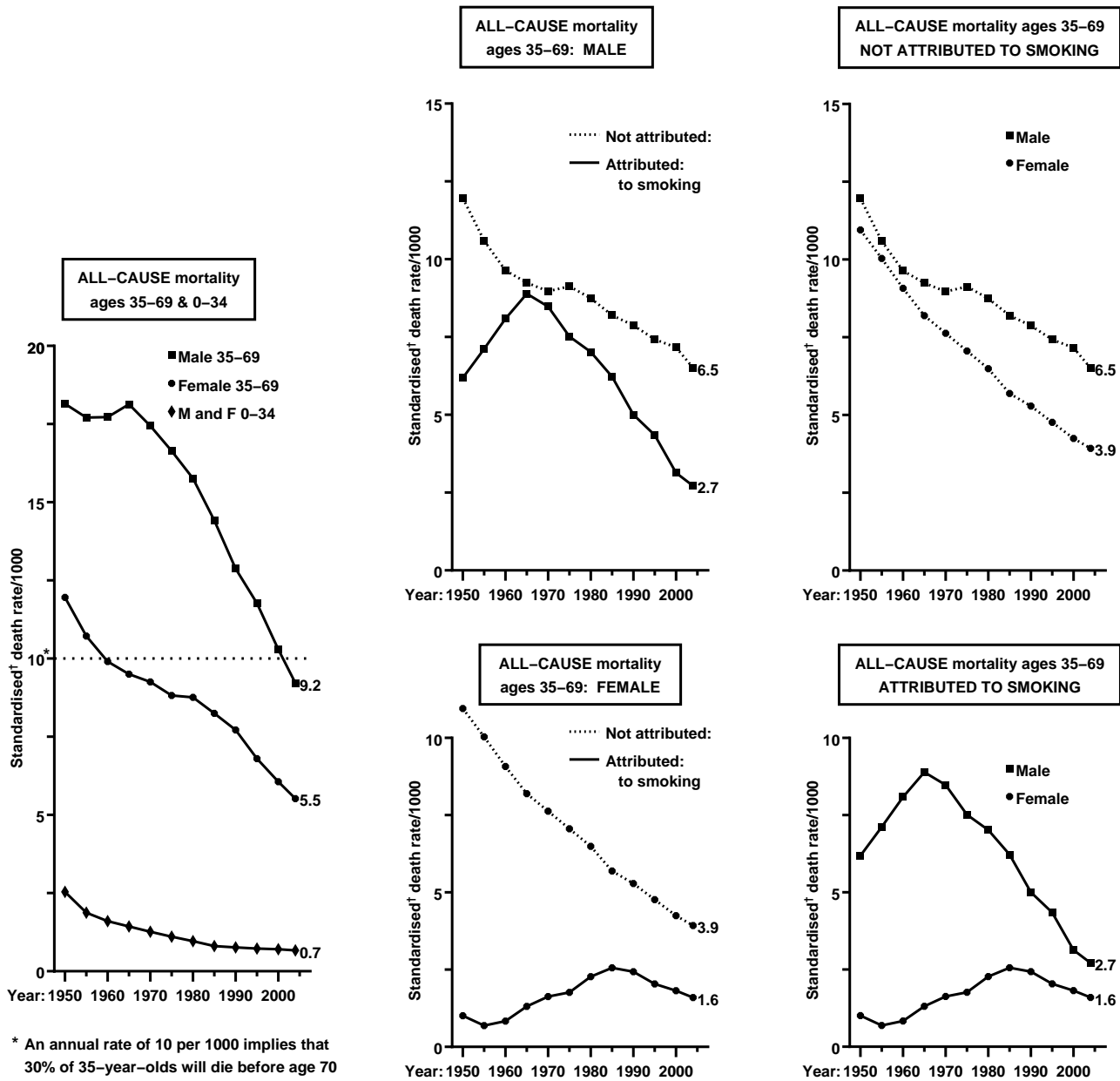
*Estimated as 10 times the sum of the annual numbers for 1955, 1965, 1975, 1985 & 1995

1950-2004: SCOTLAND



SCOTLAND: 1950-2004

ALL-CAUSE mortality rates attributed and not attributed to smoking



* An annual rate of 10 per 1000 implies that 30% of 35-year-olds will die before age 70

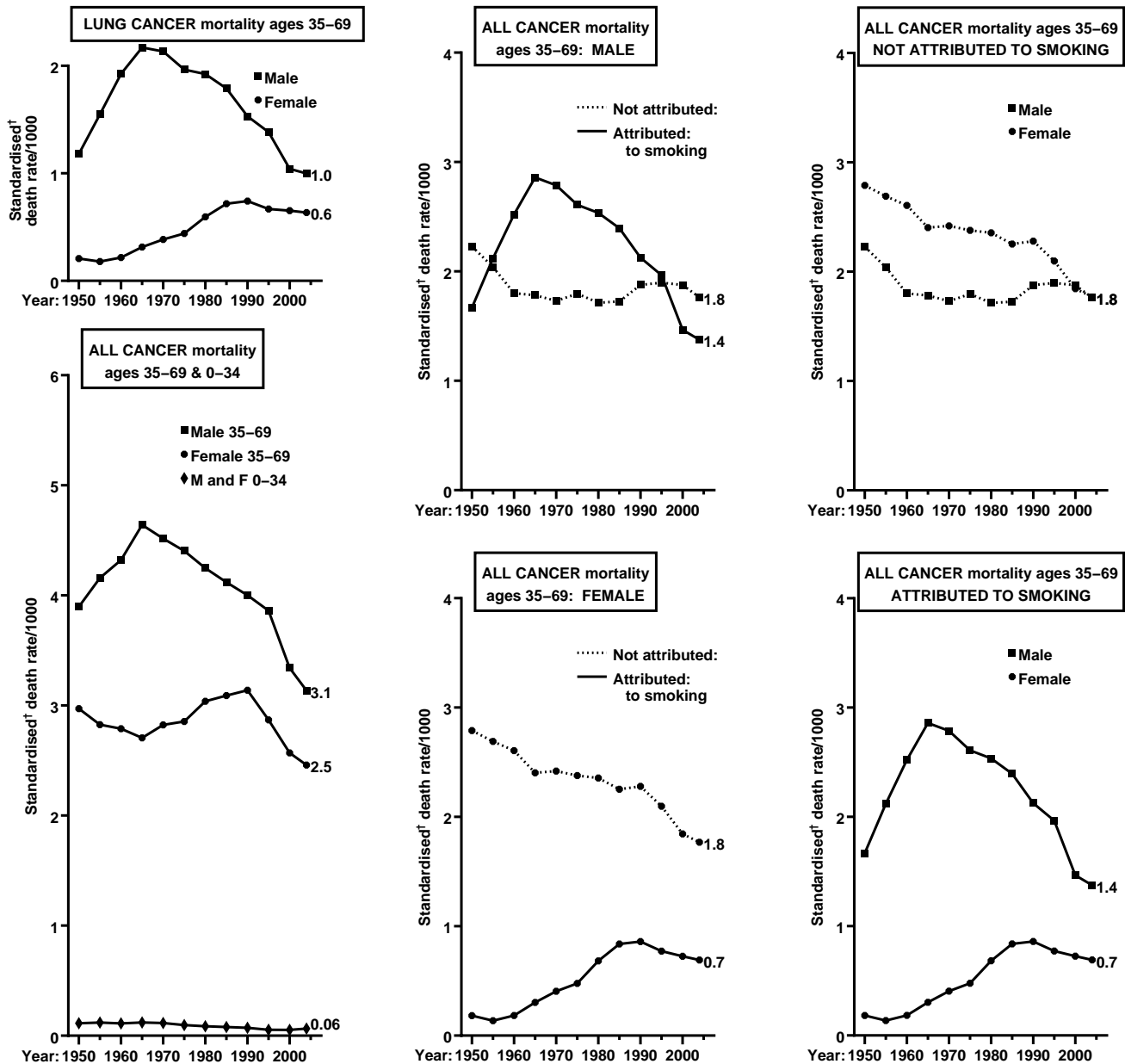
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

Year	MALE all-cause mortality (annual rate/1000, by age)								FEMALE all-cause mortality (annual rate/1000, by age)									
	Attributed to smoking?		0-34		35-69		70-79		Attributed to smoking?		0-34		35-69		70-79			
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No		
1950	-	2.68	6.18	12.0	5.06	86.1	-	2.39	1.01	10.9	1.85	70.2	-	2.39	1.01	10.9	1.85	70.2
1955	-	2.12	7.11	10.6	9.19	80.3	-	1.62	0.69	10.0	1.72	65.9	-	1.62	0.69	10.0	1.72	65.9
1960	-	1.90	8.08	9.64	17.0	71.6	-	1.30	0.83	9.07	1.80	60.5	-	1.30	0.83	9.07	1.80	60.5
1965	-	1.69	8.89	9.24	23.5	67.3	-	1.17	1.31	8.19	2.47	56.6	-	1.17	1.31	8.19	2.47	56.6
1970	-	1.54	8.47	8.97	28.8	61.9	-	0.98	1.63	7.63	3.66	51.5	-	0.98	1.63	7.63	3.66	51.5
1975	-	1.36	7.51	9.13	29.6	57.8	-	0.84	1.76	7.06	4.01	45.5	-	0.84	1.76	7.06	4.01	45.5
1980	-	1.20	7.02	8.74	28.6	56.8	-	0.72	2.27	6.49	5.09	42.4	-	0.72	2.27	6.49	5.09	42.4
1985	-	0.98	6.22	8.19	27.0	54.1	-	0.62	2.56	5.69	7.97	38.6	-	0.62	2.56	5.69	7.97	38.6
1990	-	1.02	5.00	7.87	22.4	50.3	-	0.50	2.43	5.28	8.92	33.9	-	0.50	2.43	5.28	8.92	33.9
1995	-	0.96	4.34	7.42	20.7	45.4	-	0.49	2.03	4.76	11.5	30.1	-	0.49	2.03	4.76	11.5	30.1
2000	-	0.95	3.13	7.16	16.7	42.0	-	0.45	1.82	4.24	10.7	27.2	-	0.45	1.82	4.24	10.7	27.2
2004	-	0.90	2.71	6.51	14.0	38.0	-	0.43	1.59	3.92	10.0	24.1	-	0.43	1.59	3.92	10.0	24.1

0-34 and 35-69 = means of 7 age-specific rates; 70-79 = mean of 2 rates (70-74 & 75-79)

1950-2004: SCOTLAND

ALL CANCER mortality rates attributed and not attributed to smoking



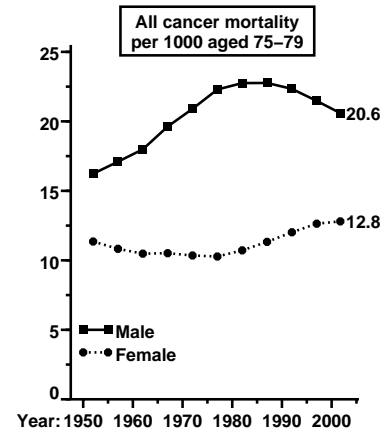
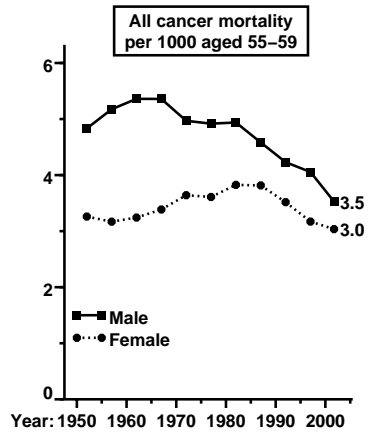
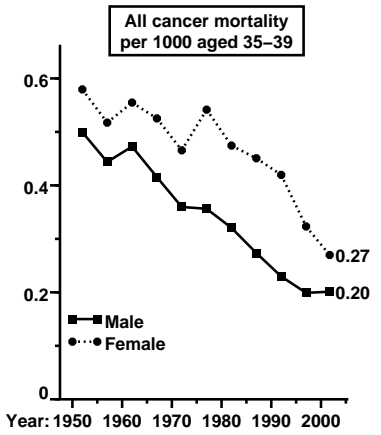
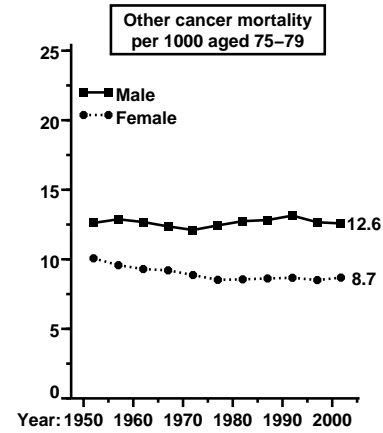
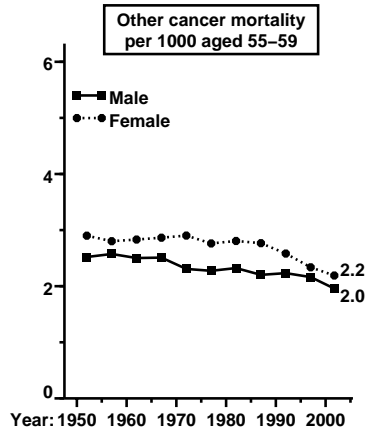
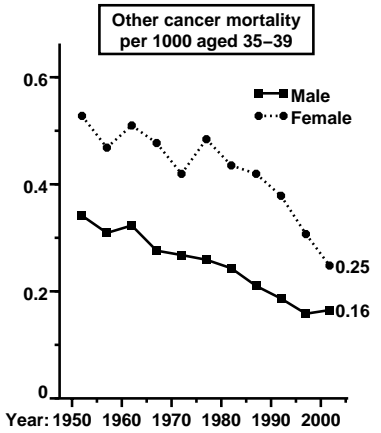
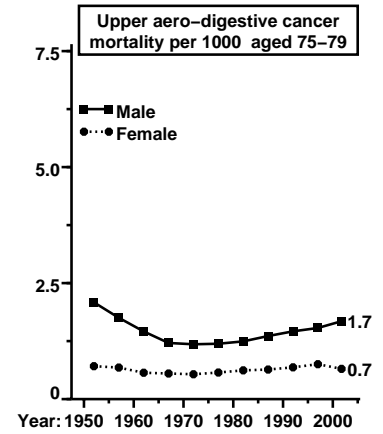
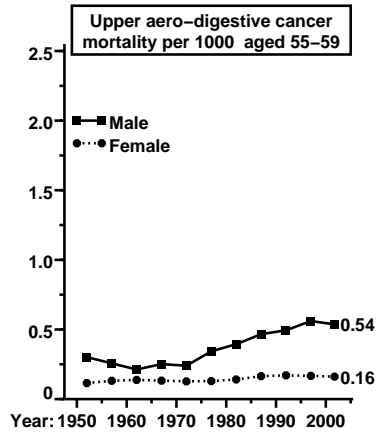
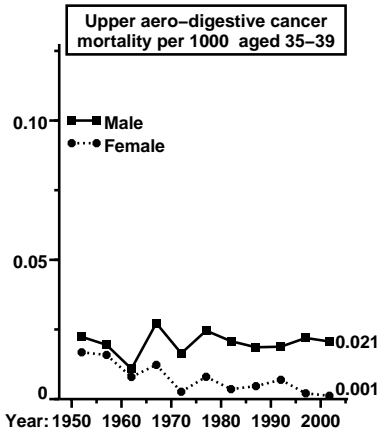
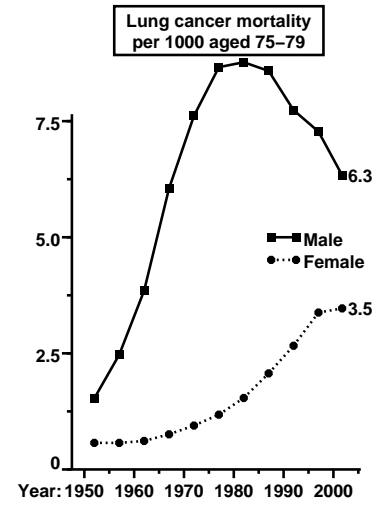
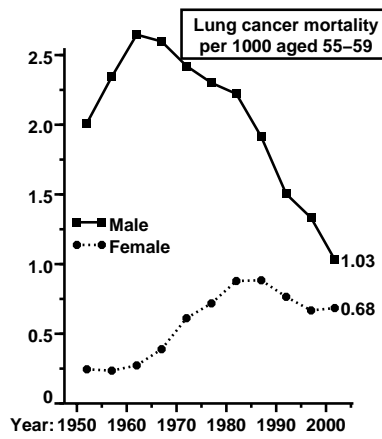
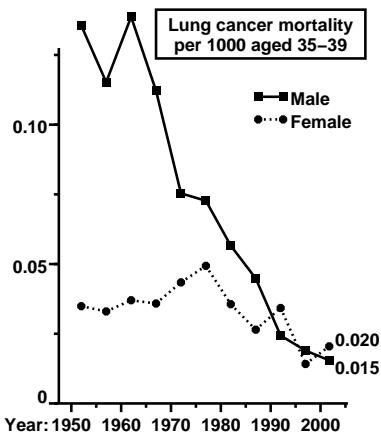
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

Year	MALE cancer mortality (annual rate/1000, by age)						FEMALE cancer mortality (annual rate/1000, by age)											
	Attributed to smoking?		0-34		35-69		70-79		Attributed to smoking?		0-34		35-69		70-79			
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No		
1950	-	0.13	1.67	2.23	1.55	12.5	-	0.10	0.18	2.79	0.33	10.1	-	0.10	0.18	2.79	0.33	10.1
1955	-	0.11	2.12	2.04	2.84	11.7	-	0.12	0.14	2.69	0.33	9.50	-	0.12	0.14	2.69	0.33	9.50
1960	-	0.12	2.52	1.80	5.30	10.1	-	0.10	0.18	2.61	0.34	8.85	-	0.10	0.18	2.61	0.34	8.85
1965	-	0.12	2.86	1.78	7.46	10.3	-	0.12	0.30	2.40	0.50	8.85	-	0.12	0.30	2.40	0.50	8.85
1970	-	0.12	2.79	1.73	9.57	8.73	-	0.10	0.40	2.42	0.83	8.43	-	0.10	0.40	2.42	0.83	8.43
1975	-	0.10	2.61	1.80	10.8	8.96	-	0.09	0.48	2.38	1.03	7.82	-	0.09	0.48	2.38	1.03	7.82
1980	-	0.08	2.53	1.71	11.2	9.23	-	0.09	0.68	2.35	1.44	7.98	-	0.09	0.68	2.35	1.44	7.98
1985	-	0.08	2.39	1.72	10.9	9.31	-	0.08	0.84	2.25	2.31	7.80	-	0.08	0.84	2.25	2.31	7.80
1990	-	0.07	2.12	1.88	9.71	10.1	-	0.07	0.86	2.28	2.83	7.41	-	0.07	0.86	2.28	2.83	7.41
1995	-	0.05	1.96	1.90	9.53	9.84	-	0.05	0.77	2.10	3.92	7.42	-	0.05	0.77	2.10	3.92	7.42
2000	-	0.06	1.46	1.88	7.90	9.99	-	0.05	0.72	1.84	3.87	7.81	-	0.05	0.72	1.84	3.87	7.81
2004	-	0.06	1.37	1.76	7.15	10.2	-	0.07	0.69	1.77	3.78	7.05	-	0.07	0.69	1.77	3.78	7.05

0-34 and 35-69 = means of 7 age-specific rates; 70-79 = mean of 2 rates (70-74 & 75-79)

SCOTLAND: 1950-2004

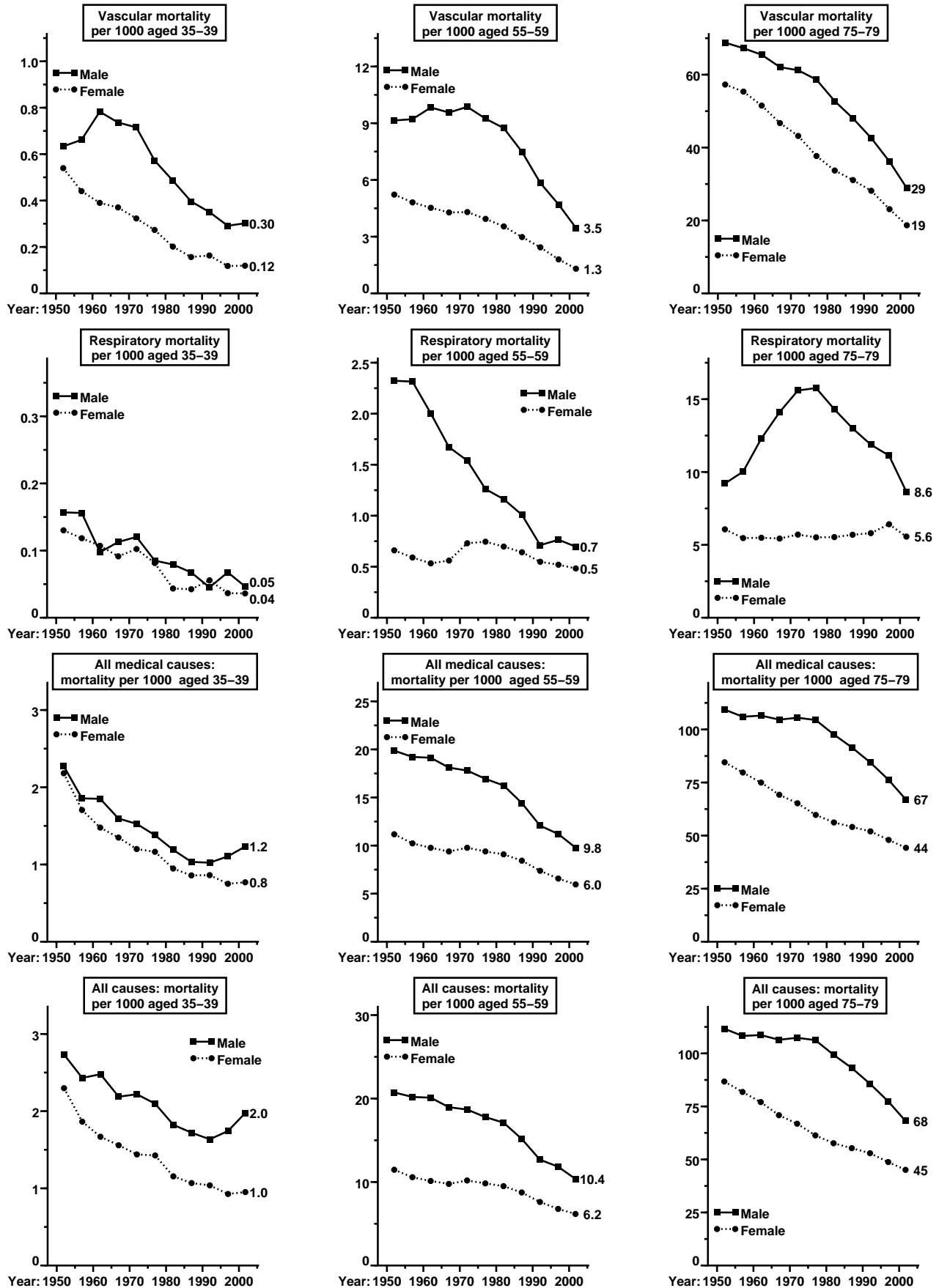
Mortality* trends at selected ages: 35-39, 55-59 & 75-79



* Annual mortality per 1000: averages of years available in 1950-54,.....,2000-04

1950-2004: SCOTLAND

Mortality* trends at selected ages: 35-39, 55-59 & 75-79



* Annual mortality per 1000: averages of years available in 1950-54,.....,2000-04