

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

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SCOTLAND

Raw data (pages 2–3, 4–5)

Analyses (pages 6–7, 8–9, 10–11)

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SCOTLAND: 2000

		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	27511	1083	9438	988.3	95.4	1028.9	141.5	15.0	16.9	71.5	128.6	146.0	148.6
	F	30288	507	6115	660.2	44.9	606.0	110.5	6.5	13.4	29.3	36.0	48.9	69.6
Tuberculosis	M	31	-	14	1.1	-	1.6	-	-	-	-	-	-	-
	F	35	-	8	0.8	-	0.8	-	-	-	-	-	-	-
HIV	M	17	3	14	0.6	0.2	1.2	-	-	-	-	-	-	1.6
	F	6	1	5	0.2	0.1	0.4	-	-	-	-	-	-	0.5
Other infective and parasitic	M	144	14	40	5.2	1.3	4.1	3.4	-	0.6	-	1.9	1.2	1.6
	F	243	12	52	5.5	1.1	5.2	2.9	-	-	1.3	0.6	0.6	2.0
ALL CANCER	M	7480	67	2964	267.1	5.7	334.0	2.7	4.4	3.6	6.2	1.9	6.2	14.4
	F	7478	59	2591	187.8	4.8	256.8	2.2	-	1.3	1.9	7.1	5.3	15.5
Mouth and pharynx cancer	M	155	4	91	5.8	0.3	9.8	-	-	-	-	0.6	-	1.6
	F	77	-	37	2.1	-	3.7	-	-	-	-	-	-	-
Oesophagus cancer	M	427	-	206	15.4	-	22.9	-	-	-	-	-	-	-
	F	281	-	77	6.5	-	7.9	-	-	-	-	-	-	-
Stomach cancer	M	364	-	139	12.9	-	15.7	-	-	-	-	-	-	-
	F	285	2	67	6.4	0.1	6.8	-	-	-	-	-	-	1.0
Colorectal cancer	M	844	4	319	30.0	0.3	36.5	-	-	-	-	-	-	2.1
	F	772	1	188	17.6	0.1	18.8	-	-	-	-	0.6	-	-
Liver cancer	M	81	-	38	2.9	-	4.4	-	-	-	-	-	-	-
	F	40	-	14	1.0	-	1.4	-	-	-	-	-	-	-
Pancreas cancer	M	294	1	135	10.7	0.1	14.8	-	-	-	-	-	-	0.5
	F	339	1	88	7.9	0.1	9.0	-	-	-	-	-	-	0.5
Larynx cancer	M	90	-	54	3.3	-	6.1	-	-	-	-	-	-	-
	F	22	-	10	0.6	-	1.0	-	-	-	-	-	-	-
Lung cancer	M	2225	3	909	79.2	0.2	104.1	-	-	-	-	-	-	1.6
	F	1723	3	646	44.7	0.2	65.2	-	-	-	-	-	-	1.5
Malignant melanoma	M	56	3	33	2.1	0.2	3.5	-	-	-	-	-	0.6	1.1
	F	59	1	27	1.7	0.1	2.5	-	-	-	-	-	0.6	-
Female breast cancer	F	1116	8	529	30.9	0.6	50.1	-	-	-	-	-	-	4.0
Cervix cancer	F	117	9	55	3.5	0.7	4.9	-	-	-	-	0.6	1.8	2.5
Other uterine cancer	F	128	-	45	3.1	-	4.5	-	-	-	-	-	-	-
Ovarian cancer	F	413	1	195	11.4	0.1	19.3	-	-	-	-	-	0.6	-
Prostate cancer	M	773	-	143	26.6	-	17.3	-	-	-	-	-	-	-
Bladder cancer	M	256	-	76	9.0	-	8.8	-	-	-	-	-	-	-
	F	169	1	40	3.8	0.1	4.1	-	-	-	-	-	-	0.5
Other and ill-defined cancer sites	M	1458	34	645	52.8	2.9	70.8	0.7	3.1	2.4	4.4	0.6	3.7	5.3
	F	1404	21	417	33.8	1.8	42.0	1.5	-	1.3	0.6	5.1	0.6	3.5
Hodgkin's disease	M	13	2	9	0.5	0.2	0.9	-	-	-	-	-	0.6	0.5
	F	8	2	-	0.2	0.2	-	-	-	-	-	-	1.2	-
Myeloma and non- Hodgkin lymphomas	M	282	3	117	10.0	0.2	12.8	-	0.6	-	-	-	-	1.1
	F	362	3	109	8.6	0.2	11.0	-	-	-	-	-	-	1.5
Leukaemia	M	162	13	50	5.9	1.2	5.7	2.1	0.6	1.2	1.9	0.6	1.2	0.5
	F	163	6	47	4.0	0.5	4.4	0.7	-	-	1.3	0.6	0.6	0.5
Diabetes	M	292	2	106	10.3	0.2	11.8	-	-	-	-	-	0.6	0.5
	F	324	5	71	7.3	0.4	7.0	-	-	0.6	-	-	-	2.0
ALL VASCULAR DISEASE	M	11058	47	3414	390.6	4.0	380.9	1.4	0.6	0.6	1.2	4.5	10.0	9.6
	F	12599	34	1664	249.1	2.7	169.9	0.7	-	-	0.6	3.2	7.1	7.5
Rheumatic heart disease and fever	M	55	1	25	2.0	0.1	2.8	-	-	-	-	-	-	0.5
	F	123	1	33	2.9	0.1	3.4	-	-	-	-	-	-	0.5
Hypertensive disease	M	163	-	64	5.8	-	7.0	-	-	-	-	-	-	-
	F	201	-	43	4.3	-	4.4	-	-	-	-	-	-	-
Ischaemic heart disease	M	6578	15	2383	234.1	1.2	264.6	-	-	-	-	1.3	3.1	4.3
	F	5834	4	920	119.4	0.3	94.6	-	-	-	-	-	1.2	1.0
Pulmonary embolism and other venous	M	200	-	69	7.0	-	7.8	-	-	-	-	-	-	-
	F	294	2	68	6.6	0.2	6.7	-	-	-	-	0.6	-	0.5
Cerebrovascular disease	M	2544	11	497	88.3	0.9	56.6	-	0.6	0.6	-	0.6	2.5	2.1
	F	4259	13	421	80.2	1.1	42.6	-	-	-	0.6	1.9	2.9	2.0
Other vascular disease	M	1518	20	376	53.3	1.8	42.0	1.4	-	-	1.2	2.6	4.4	2.7
	F	1888	14	179	35.6	1.1	18.1	0.7	-	-	-	0.6	2.9	3.5
Chronic obstructive pulmonary disease	M	1516	10	384	52.7	0.8	45.3	0.7	-	1.8	-	0.6	0.6	2.1
	F	1496	6	348	34.2	0.5	35.9	-	-	-	0.6	0.6	0.6	1.5
Other respiratory disease	M	1502	18	292	52.8	1.5	32.4	2.1	-	-	1.2	1.3	1.2	4.8
	F	2033	8	192	37.6	0.7	19.1	1.5	0.7	0.6	-	-	-	2.0
Peptic ulcer	M	174	-	65	6.2	-	6.9	-	-	-	-	-	-	-
	F	174	1	36	3.8	0.1	3.5	-	-	-	-	-	-	0.5
Liver cirrhosis	M	635	24	519	24.9	1.9	50.9	-	-	-	-	-	3.7	9.6
	F	311	8	251	10.9	0.6	22.9	-	-	-	-	-	1.8	2.5
Renal disease	M	247	2	57	8.7	0.2	6.4	-	-	-	-	0.6	0.6	-
	F	298	1	23	5.5	0.1	2.3	-	-	-	-	-	-	0.5
Pregnancy, birth Congenital and perinatal causes	F	8	6	2	0.3	0.5	0.1	-	-	-	-	0.6	1.2	1.5
	M	186	156	26	9.6	15.2	2.5	98.2	2.5	2.4	0.6	1.9	-	0.5
	F	138	117	20	7.2	11.8	1.7	72.7	1.3	0.6	1.3	1.3	2.4	3.0
Ill-defined causes	M	110	29	29	4.5	2.8	2.7	15.1	-	0.6	0.6	1.3	1.2	0.5
	F	212	19	20	4.5	1.9	1.9	10.2	-	-	0.6	1.3	1.2	-
Other medical causes	M	2627	236	833	95.6	20.3	85.7	8.2	2.5	2.4	12.4	33.1	41.8	41.7
	F	4041	103	601	82.5	8.9	58.2	11.6	3.3	5.1	7.0	9.0	13.0	13.5
ALL NON- MEDICAL CAUSES	M	1492	475	681	58.4	41.4	62.5	9.6	5.0	4.8	49.1	81.2	78.6	61.5
	F	892	127	231	22.9	10.9	20.2	8.7	1.3	5.1	15.9	12.2	15.9	17.0
Road traffic accidents	M	239	109	104	9.6	9.6	9.1	2.1	3.1	2.4	14.9	16.9	16.8	10.7
	F	98	33	41	3.4	2.9	3.7	1.5	-	2.5	5.1	3.9	4.1	3.0
Fire	M	45	9	27	1.8	0.8	2.6	2.1	0.6	-	-	1.3	0.6	1.1
	F	25	4	10	0.8	0.4	0.9	1.5	0.7	-	-	0.6	-	-
Suicide	M	512	218	264	20.6	18.9	22.9	-	-	1.8	17.4	40.9	40.5	31.5
	F	136	53	70	5.1	4.4	5.6	-	-	1.9	5.7	5.8	9.4	8.0
Homicide	M	68	36	31	2.9	3.2	2.7	2.1	-	-	5.0	9.7	3.7	2.1
	F	25	9	14	1.0	0.8	1.1	2.9	-	-	0.6	-	-	2.0
POPULATION: (1000s; UN, 2004 revision)			M=male		2432.1	1133.7	1086.0	145.6	160.2	165.7	160.8	154.0	160.3	187.1
			F=female		2630.6	1129.9	1152.4	137.6	153.2	157.2	157.1	155.6	169.6	199.6

2000: 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			
188.9	260.3	377.8	636.9	1110.3	1802.9	2825.4	4607.6	7133.7	14346.2	M	ALL CAUSES	001-999/A00-Y89
96.8	163.0	250.4	381.0	633.6	1018.1	1698.9	2837.5	4750.7	11887.1	F		
-	-	1.2	0.6	1.5	3.2	4.6	2.2	7.6	17.6	M	Tuberculosis	010-018, 137/ A15-A19, B90
-	-	0.6	0.6	-	0.7	3.9	6.0	13.0	5.3	F		
3.6	1.7	0.6	0.6	-	0.8	0.9	-	-	-	M	HIV	279.5, 279.6/B20-B24
1.4	1.1	-	-	-	-	-	-	-	-	F		
3.6	2.2	1.8	1.7	2.2	6.4	11.0	21.2	33.4	86.1	M	Other infective and parasitic	Rest of 001-139/rest of A00-B99 excl A33,A34
-	1.1	4.2	2.3	6.9	9.4	12.4	17.1	31.9	96.9	F		
20.5	43.5	83.1	169.6	348.3	671.2	1001.8	1535.1	2044.1	3035.1	M	ALL CANCER	140-208/C00-C97
30.3	61.7	108.0	177.9	288.6	439.4	692.0	993.2	1343.0	1769.6	F		
-	3.9	2.4	8.2	13.8	18.4	21.9	26.8	25.8	33.4	M	Mouth and pharynx cancer	140-149/C00-C14
-	-	1.8	2.3	6.2	8.7	7.0	7.7	11.0	15.3	F		
2.0	3.9	9.7	8.2	28.3	49.5	58.5	89.2	115.5	114.2	M	Oesophagus cancer	150/C15
-	0.5	1.8	4.0	7.6	17.4	24.0	35.1	54.8	82.4	F		
2.6	1.7	6.1	6.4	12.3	30.3	50.3	74.7	104.9	156.4	M	Stomach cancer	151/C16
1.0	0.5	1.2	4.6	6.9	9.4	24.0	35.1	60.8	87.0	F		
-	3.9	8.5	16.9	35.6	69.4	121.6	168.3	232.5	381.4	M	Colorectal cancer	153, 154/C18-C21
2.4	2.6	5.9	12.6	21.3	30.5	56.5	97.5	155.5	238.7	F		
-	-	1.2	3.5	2.9	5.6	17.4	22.3	24.3	12.3	M	Liver cancer	155.0/C22 excl C221
-	-	0.6	0.6	1.4	2.9	4.6	4.3	7.0	10.7	F		
-	3.3	4.2	11.1	20.3	27.1	37.5	60.2	69.9	101.9	M	Pancreas cancer	157/C25
0.5	1.6	4.7	1.1	10.3	13.8	31.0	42.8	85.7	87.0	F		
-	-	-	4.7	7.3	12.8	18.3	19.0	15.2	15.8	M	Larynx cancer	161/C32
-	-	-	-	2.8	3.6	0.8	6.0	2.0	2.3	F		
2.0	6.6	18.8	47.8	106.7	219.5	327.2	497.2	642.9	780.3	M	Lung cancer	162/C33, C34
3.9	8.4	23.1	41.9	64.7	112.4	202.0	297.7	338.0	295.2	F		
1.5	1.7	1.2	2.3	2.9	4.8	10.1	6.7	12.2	10.5	M	Malignant melanoma	172/C43
-	1.6	3.0	3.4	3.4	2.9	3.1	6.8	12.0	8.4	F		
9.6	24.8	30.9	53.9	64.7	76.9	89.8	128.3	128.6	228.8	F	Female breast cancer	174/C50
3.4	5.3	4.2	3.4	6.9	3.6	7.7	16.3	16.0	13.7	F	Cervix cancer	180/C53
-	-	1.8	4.0	4.8	8.0	13.2	12.0	20.9	36.6	F	Other uterine cancer	179, 182/C54, C55
2.4	3.2	5.9	16.1	22.7	37.0	48.0	57.3	59.8	68.6	F	Ovarian cancer	183/C56, C570-C574
-	-	0.6	3.5	9.4	32.7	75.0	148.3	241.6	594.0	M	Prostate cancer	185/C61
-	-	0.6	4.7	6.5	22.3	27.4	58.0	72.9	140.6	M	Bladder cancer	188/C67
0.5	0.5	1.8	1.7	2.1	5.8	16.3	25.7	27.9	53.4	F		
9.2	17.1	23.0	41.4	81.3	134.1	189.2	283.2	338.9	530.8	M	Other and ill-defined cancer sites	Rest of 140-199/ rest of C00-C80, C97
4.3	6.9	14.8	20.1	48.2	78.3	121.5	165.1	264.2	387.5	F	Hodgkin's disease	201/C81
0.5	0.6	0.6	0.6	2.2	1.6	-	-	3.0	-	M		
-	-	-	-	-	-	-	0.9	1.0	3.1	F		
1.5	1.1	4.2	10.5	10.9	30.3	31.1	49.1	103.3	87.9	M	Myeloma and non- Hodgkin lymphomas	200, 202-203/ C82-C90, C96
0.5	4.2	3.6	2.9	12.4	21.8	31.7	42.8	63.8	103.7	F	Leukaemia	204-208/C91-C95
1.0	-	1.8	-	8.0	12.8	16.5	32.3	41.0	75.6	M		
1.9	1.6	3.0	5.2	2.1	6.5	10.8	12.0	33.9	47.3	F		
2.6	1.7	2.4	5.8	10.2	25.5	34.7	44.6	97.3	140.6	M	Diabetes	250/E10-E14
1.4	2.1	2.4	3.4	6.2	16.0	17.8	40.2	54.8	111.4	F		
23.6	63.8	124.3	223.8	412.2	663.2	1155.4	1986.6	3193.0	6527.2	M	ALL VASCULAR DISEASE	390-459/I00-I99
9.6	26.9	45.7	75.2	155.6	307.5	568.9	1077.0	2101.7	5746.8	F		
0.5	0.6	1.2	-	4.4	5.6	7.3	11.1	12.2	19.3	M	Rheumatic heart disease and fever	390-398/I00-I09
-	0.5	0.6	-	2.1	10.9	10.1	22.2	18.9	33.6	F	Hypertensive disease	401-405/I10-I15
0.5	1.1	3.0	4.1	12.3	8.8	19.2	34.6	45.6	66.8	M		
-	-	1.8	2.9	3.4	6.5	16.3	23.1	31.9	75.5	F		
14.8	43.5	84.9	167.8	301.2	472.5	767.8	1230.8	1829.8	3290.0	M	Ischaemic heart disease	410-414/I20-I25
4.8	10.5	21.4	36.7	83.3	179.8	325.9	580.0	1091.7	2392.8	F		
1.5	1.7	1.2	2.3	8.0	13.6	26.5	32.3	74.5	93.1	M	Pulmonary embolism and other venous	415.1, 451-453/ I26, I80-I82
-	2.6	3.0	5.2	6.2	15.2	14.7	34.2	54.8	98.4	F		
2.6	11.0	17.6	25.6	42.1	96.6	201.1	404.7	776.6	2042.2	M	Cerebrovascular disease	430-438/I60-I69
3.4	10.5	13.6	20.1	39.9	68.9	141.6	289.1	626.1	2180.8	F		
3.6	6.1	16.4	23.9	44.3	66.2	133.5	273.1	454.4	1015.8	M	Other vascular disease	Rest of 390-459/ rest of I00-I99
1.4	2.6	5.3	10.3	20.7	26.1	60.4	128.3	278.2	965.7	F		
1.0	2.8	2.4	12.2	45.7	78.2	174.6	315.5	522.8	869.9	M	Chronic obstructive pulmonary disease	490-496/ J40-J47, J67
1.0	3.2	4.7	18.4	30.3	63.8	130.0	245.5	310.1	415.0	F	Other respiratory disease	Rest of 460-519/ rest of J00-J98
1.5	7.2	9.7	19.8	37.7	54.3	96.9	204.0	360.2	1356.8	M		
3.4	4.7	8.9	9.8	24.1	27.6	55.0	112.9	226.3	1124.3	F		
0.5	1.1	1.8	8.7	5.1	17.6	13.7	33.4	48.6	82.6	M	Peptic ulcer	531-533/K25-K27
0.5	1.1	1.2	3.4	2.8	6.5	9.3	18.0	28.9	66.4	F		
12.8	32.5	41.2	64.1	70.4	75.0	60.3	54.6	42.6	26.4	M	Liver cirrhosis	571/K70, K74
9.1	11.1	22.0	29.3	29.6	37.7	21.7	13.7	16.9	14.5	F		
0.5	1.1	1.2	5.2	5.8	7.2	23.8	32.3	59.3	210.9	M	Renal disease	580-590/N00-N19
-	1.1	0.6	2.3	2.1	2.2	7.7	21.4	45.9	154.8	F		
0.5	0.5	-	-	-	-	-	-	-	-	F	Pregnancy, birth Congenital and perinatal causes	630-676/A34,000-099 740-779/A33, P00-P96, Q00-Q99
1.5	1.7	1.8	2.3	5.8	2.4	1.8	1.1	3.0	1.8	M	Ill-defined causes	780-799/R00-R99
3.9	1.1	1.8	-	1.4	-	3.9	-	-	0.8	F		
1.5	1.7	1.8	4.1	5.8	2.4	1.8	4.5	7.6	75.6	M		
0.5	1.1	1.8	1.1	1.4	2.2	5.4	5.1	5.0	123.6	F		
38.9	42.4	47.9	55.9	109.6	127.7	177.3	287.6	576.0	1618.6	M	Other medical causes	Rest of 001-799/ rest of A00-R99
18.8	21.6	27.9	40.2	68.2	83.4	147.1	250.6	498.5	1940.5	F		
76.8	57.2	56.4	62.4	50.1	67.8	66.7	84.7	138.3	297.0	M	ALL NON- MEDICAL CAUSES	E800-E999/V01-Y89
16.4	24.8	20.8	17.2	16.5	21.8	24.0	36.8	74.8	317.3	F		
13.8	11.0	9.1	11.1	6.5	6.4	5.5	7.8	13.7	17.6	M	Road traffic accidents	E810-E819, E826-E829/ part of V01-V99, Y850
1.4	3.7	5.3	2.3	4.8	3.6	4.6	6.0	6.0	8.4	F		
1.0	3.3	2.4	1.2	3.6	4.0	2.7	1.1	6.1	7.0	M	Fire	E890-E899/X00-X09
1.0	1.1	-	-	0.7	2.2	1.5	1.7	4.0	3.8	F		
37.4	29.2	24.3	24.5	13.8	19.2	11.9	11.1	12.2	21.1	M	Suicide	E950-E959/X60-X84
6.3	11.1	8.9	7.5	3.4	-	2.3	4.3	3.0	3.8	F		
5.1	2.2	3.6	1.2	4.4	1.6	0.9	1.1	-	-	M	Homicide	E960-E969/ X85-X99, Y00-Y09
2.4	1.6	1.2	1.1	0.7	-	0.8	-	-	1.5	F		
195.3	181.7	164.9	171.6	137.8	125.3	109.4	89.7	65.8	56.9	M	POPULATION	
207.7	189.6	168.5	174.3	145.2	137.9	129.2	116.9	100.3	131.1	F	(1000s; UN, 2004 revision)	

SCOTLAND: 1995, 2000

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%)	
2000												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	1083	67	3	4	60	10	18	47	24	442	475
35-69	Sm.	2787	1282	832	213	237	289	72	847	-	297	-
	Total	9438	2964	909	351	1704	384	292	3414	519	1184	681
		(30%)	(43%)	(92%)	(61%)	(14%)	(75%)	(25%)	(25%)		(25%)	
70+	Sm.	4319	1861	1215	206	440	868	166	1113	-	311	-
	Total	16990	4449	1313	317	2819	1122	1192	7597	92	2202	336
		(25%)	(42%)	(93%)	(65%)	(16%)	(77%)	(14%)	(15%)		(14%)	
Any age	Sm.	7106	3143	2047	419	677	1157	238	1960	-	608	-
	Total	27511	7480	2225	672	4583	1516	1502	11058	635	3828	1492
		(26%)	(42%)	(92%)	(62%)	(15%)	(76%)	(16%)	(18%)		(16%)	

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+/ NK
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
2000	2432.1	1133.7	1086.0	195.3	181.7	164.9	171.6	137.8	125.3	109.4	89.7	65.8	56.9
NUMBER OF DEATHS (Source: WHO)													
All causes													
1995	28791	1204	10312	279	419	736	1010	1613	2531	3724	4725	4379	8171
2000	27511	1083	9438	369	473	623	1093	1530	2259	3091	4133	4694	8163
Lung cancer													
1995	2581	1	1170	2	14	55	87	186	324	502	523	432	455
2000	2225	3	909	4	12	31	82	147	275	358	446	423	444
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
2000	988.3*	95.4*	1028.9*	188.9	260.3	377.8	636.9	1110.3	1802.9	2825.4	4607.6	7133.7	14346.2
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
2000	267.1*	5.7*	334.0*	20.5	43.5	83.1	169.6	348.3	671.2	1001.8	1535.1	2044.1	3035.1
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
2000	79.2*	0.2*	104.1*	2.0	6.6	18.8	47.8	106.7	219.5	327.2	497.2	642.9	780.3
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
2000	24.5*	0.3*	38.8*	2.0	7.7	12.1	21.0	49.3	80.6	98.7	134.9	156.5	163.4
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
2000	163.4*	5.1*	191.1*	16.4	29.2	52.2	100.8	192.3	371.1	575.9	903.0	1244.7	2091.4
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
2000	52.7*	0.8*	45.3*	1.0	2.8	2.4	12.2	45.7	78.2	174.6	315.5	522.8	869.9
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
2000	52.8*	1.5*	32.4*	1.5	7.2	9.7	19.8	37.7	54.3	96.9	204.0	360.2	1356.8
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
2000	390.6*	4.0*	380.9*	23.6	63.8	124.3	223.8	412.2	663.2	1155.4	1986.6	3193.0	6527.2
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
2000	24.9*	1.9*	50.9*	12.8	32.5	41.2	64.1	70.4	75.0	60.3	54.6	42.6	26.4
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
2000	141.9*	40.1*	122.9*	52.7	53.4	60.6	85.1	145.9	193.1	269.7	427.0	832.8	2233.7
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
2000	58.4*	41.4*	62.5*	76.8	57.2	56.4	62.4	50.1	67.8	66.7	84.7	138.3	297.0

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

1995, 2000: 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%)	
2000												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	507	59	3	0	56	6	8	34	8	265	127
35-69	Sm.	1787	716	553	75	88	270	56	501	-	244	-
	Total	6115	2591	646	124	1821	348	192	1664	251	838	231
		(29%)	(28%)	(86%)	(60%)	(5%)	(78%)	(29%)	(30%)		(29%)	
70+	Sm.	5137	1402	968	180	254	958	288	1786	-	703	-
	Total	23666	4828	1074	256	3498	1142	1833	10901	52	4376	534
		(22%)	(29%)	(90%)	(70%)	(7%)	(84%)	(16%)	(16%)		(16%)	
Any age	Sm.	6924	2118	1521	255	342	1228	344	2287	-	947	-
	Total	30288	7478	1723	380	5375	1496	2033	12599	311	5479	892
		(23%)	(28%)	(88%)	(67%)	(6%)	(82%)	(17%)	(18%)		(17%)	

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
2000	2630.6	1129.9	1152.4	207.7	189.6	168.5	174.3	145.2	137.9	129.2	116.9	100.3	131.1
NUMBER OF DEATHS (Source: WHO)													
All causes													
1995	31709	597	6699	165	270	462	638	957	1644	2563	3886	4598	15929
2000	30288	507	6115	201	309	422	664	920	1404	2195	3317	4765	15584
Lung cancer													
1995	1640	-	648	4	10	34	70	86	172	272	386	291	315
2000	1723	3	646	8	16	39	73	94	155	261	348	339	387
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
2000	660.2*	44.9*	606.0*	96.8	163.0	250.4	381.0	633.6	1018.1	1698.9	2837.5	4750.7	11887.1
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
2000	187.8*	4.8*	256.8*	30.3	61.7	108.0	177.9	288.6	439.4	692.0	993.2	1343.0	1769.6
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
2000	44.7*	0.2*	65.2*	3.9	8.4	23.1	41.9	64.7	112.4	202.0	297.7	338.0	295.2
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
2000	9.3*	-	12.6*	-	0.5	3.6	6.3	16.5	29.7	31.7	48.8	67.8	99.9
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
2000	133.8*	4.5*	179.0*	26.5	52.7	81.3	129.7	207.3	297.3	458.2	646.7	937.2	1374.5
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
2000	34.2*	0.5*	35.9*	1.0	3.2	4.7	18.4	30.3	63.8	130.0	245.5	310.1	415.0
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
2000	37.6*	0.7*	19.1*	3.4	4.7	8.9	9.8	24.1	27.6	55.0	112.9	226.3	1124.3
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
2000	249.1*	2.7*	169.9*	9.6	26.9	45.7	75.2	155.6	307.5	568.9	1077.0	2101.7	5746.8
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
2000	10.9*	0.6*	22.9*	9.1	11.1	22.0	29.3	29.6	37.7	21.7	13.7	16.9	14.5
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
2000	117.6*	24.7*	81.1*	27.0	30.6	40.4	53.4	88.8	120.4	207.4	358.4	678.0	2499.6
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
2000	22.9*	10.9*	20.2*	16.4	24.8	20.8	17.2	16.5	21.8	24.0	36.8	74.8	317.3

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

SCOTLAND: 2000

Relative importance of deaths in MIDDLE age (35–69) in the year 2000

Age range (years)	Deaths attributed to SMOKING /total deaths (thousands)		Mean years lost PER DEATH FROM SMOKING
	Male	Female	
0–34	– / 1.1	– / 0.5	–
35–69	2.8 / 9.4	1.8 / 6.1	21 years
70+	4.3 / 17	5.1 / 24	8 years
All ages	7.1 / 28	6.9 / 30	12 years

Deaths, by cause, attributed to SMOKING / total deaths (thousands) in the year 2000

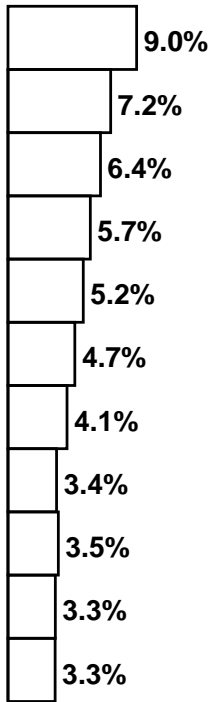
Cause	Male (by age)				Female (by age)			
	0–34	35–69	70+	All	0–34	35–69	70+	All
Lung Cancer	–/0.0	0.8/0.9	1.2/1.3	2.0/2.2	–/0.0	0.6/0.6	1.0/1.1	1.5/1.7
All Cancer	–/0.1	1.3/3.0 (43%)	1.9/4.4 (42%)	3.1/7.5	–/0.1	0.7/2.6 (28%)	1.4/4.8 (29%)	2.1/7.5
Vascular	–/0.0	0.8/3.4	1.1/7.6	2.0/11	–/0.0	0.5/1.7	1.8/11	2.3/13
Respiratory	–/0.0	0.4/0.7	1.0/2.3	1.4/3.0	–/0.0	0.3/0.5	1.2/3.0	1.6/3.5
All Other	–/0.9	0.3/2.4	0.3/2.6	0.6/6.0	–/0.4	0.2/1.3	0.7/5.0	0.9/6.7
All Causes	–/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

Cancer deaths, and all deaths, attributed to SMOKING / total deaths (thousands) in the year 2000

Cause	Male	Female	Male + Female
All Cancer	3.1 / 7.5 (42%)	2.1 / 7.5 (28%)	5.3 / 15 (35%)
All Causes	7.1 / 28 (26%)	6.9 / 30 (23%)	14 / 58 (24%)

1950-2000: SCOTLAND

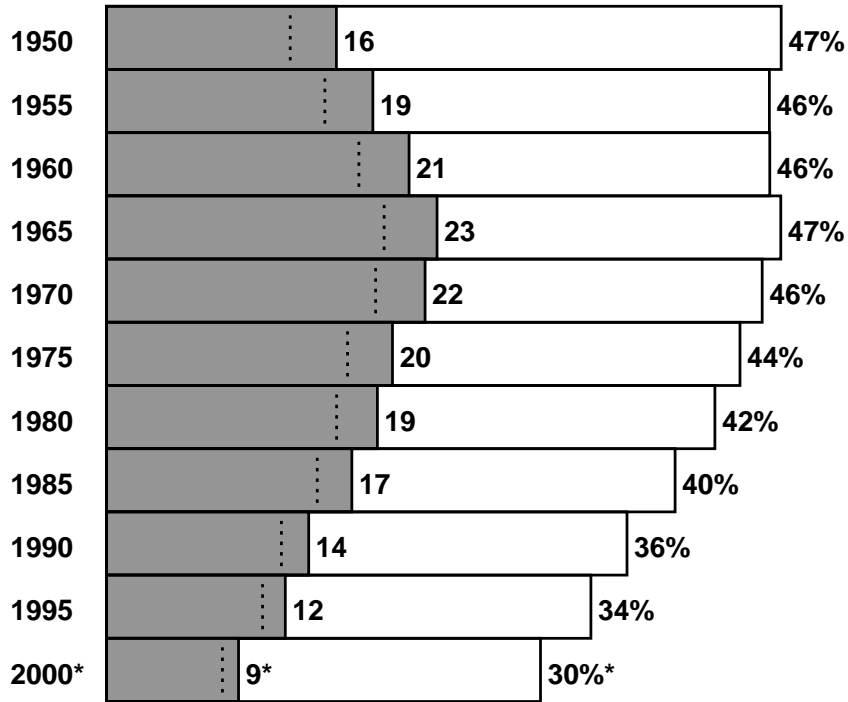
Population risk of dying at ages 0-34



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

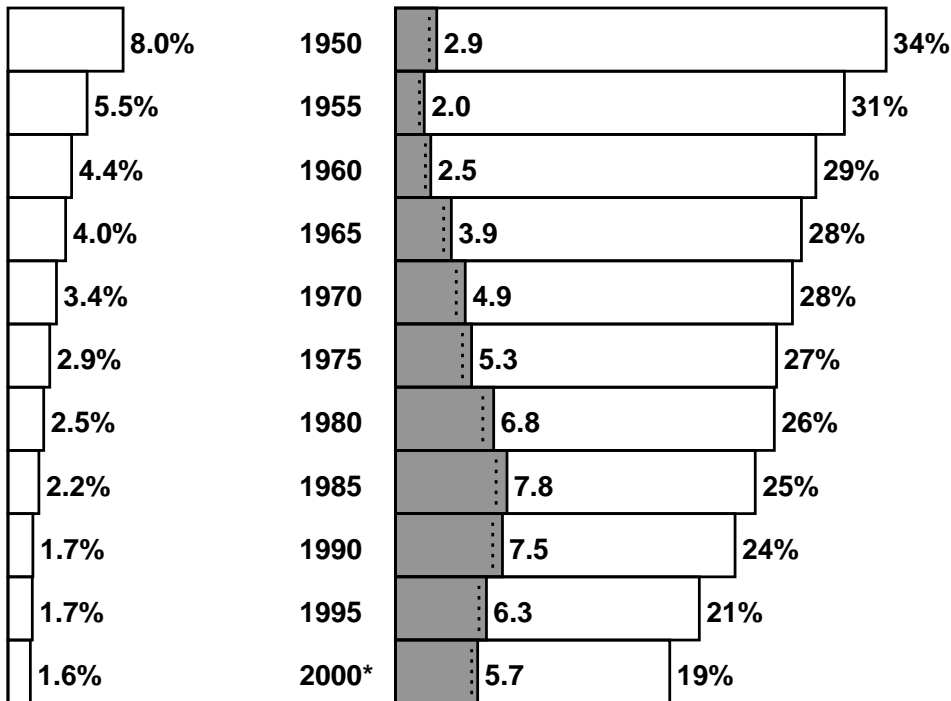
*eg, at year 2000 male death rates, out of 100 men aged 35, 30 would die before age 70 (with 9 of these deaths attributed to smoking)

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: 1950-2000

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

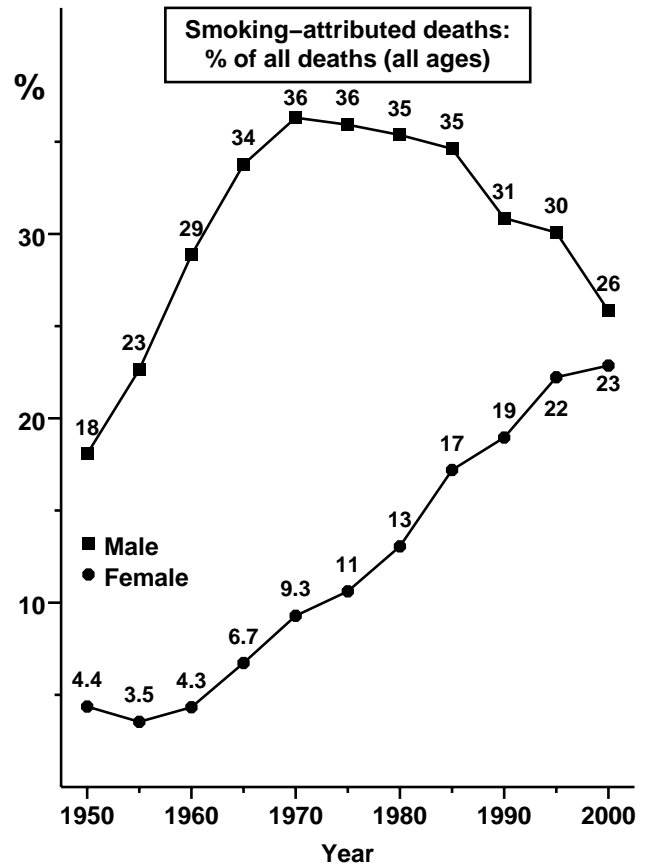
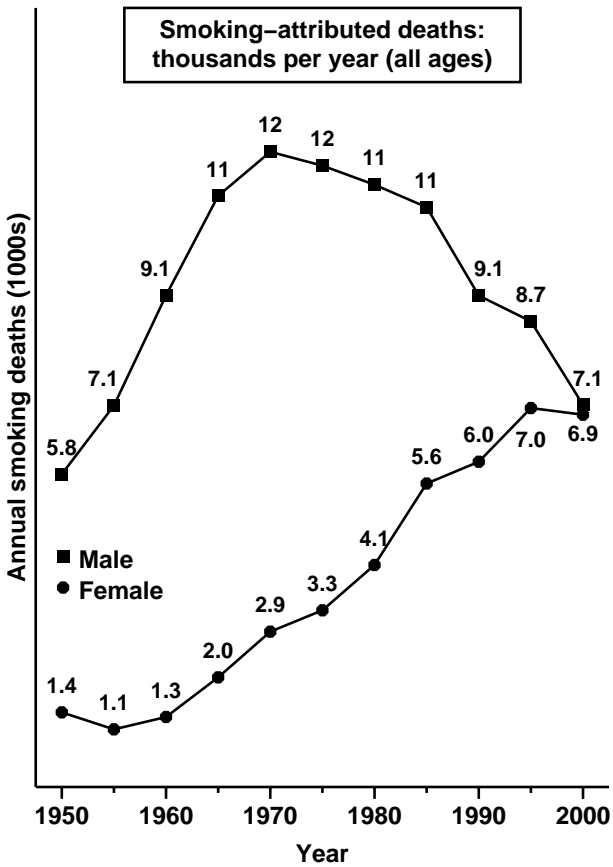
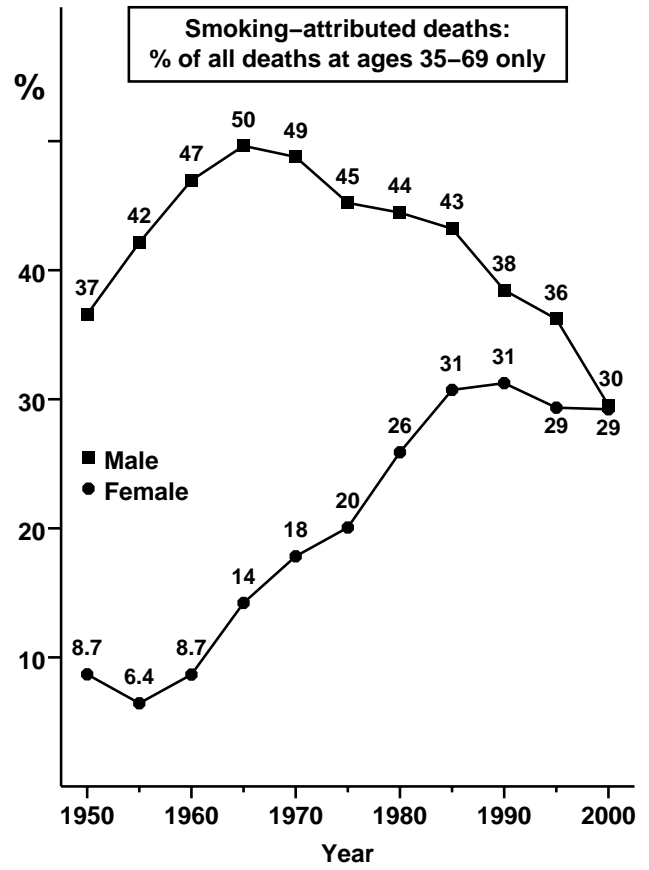
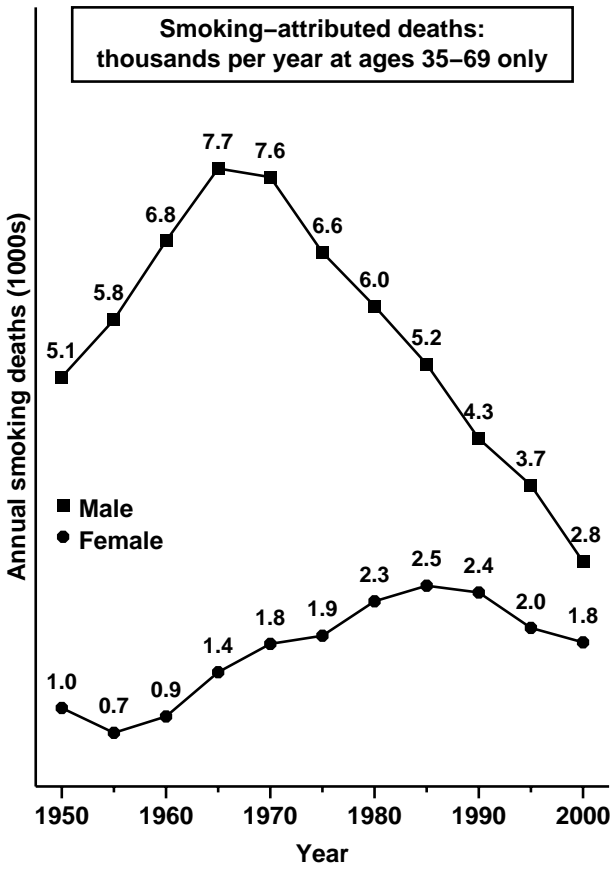
50-year total* (thousands), mid-1950 to mid-2000: 682 / 3121

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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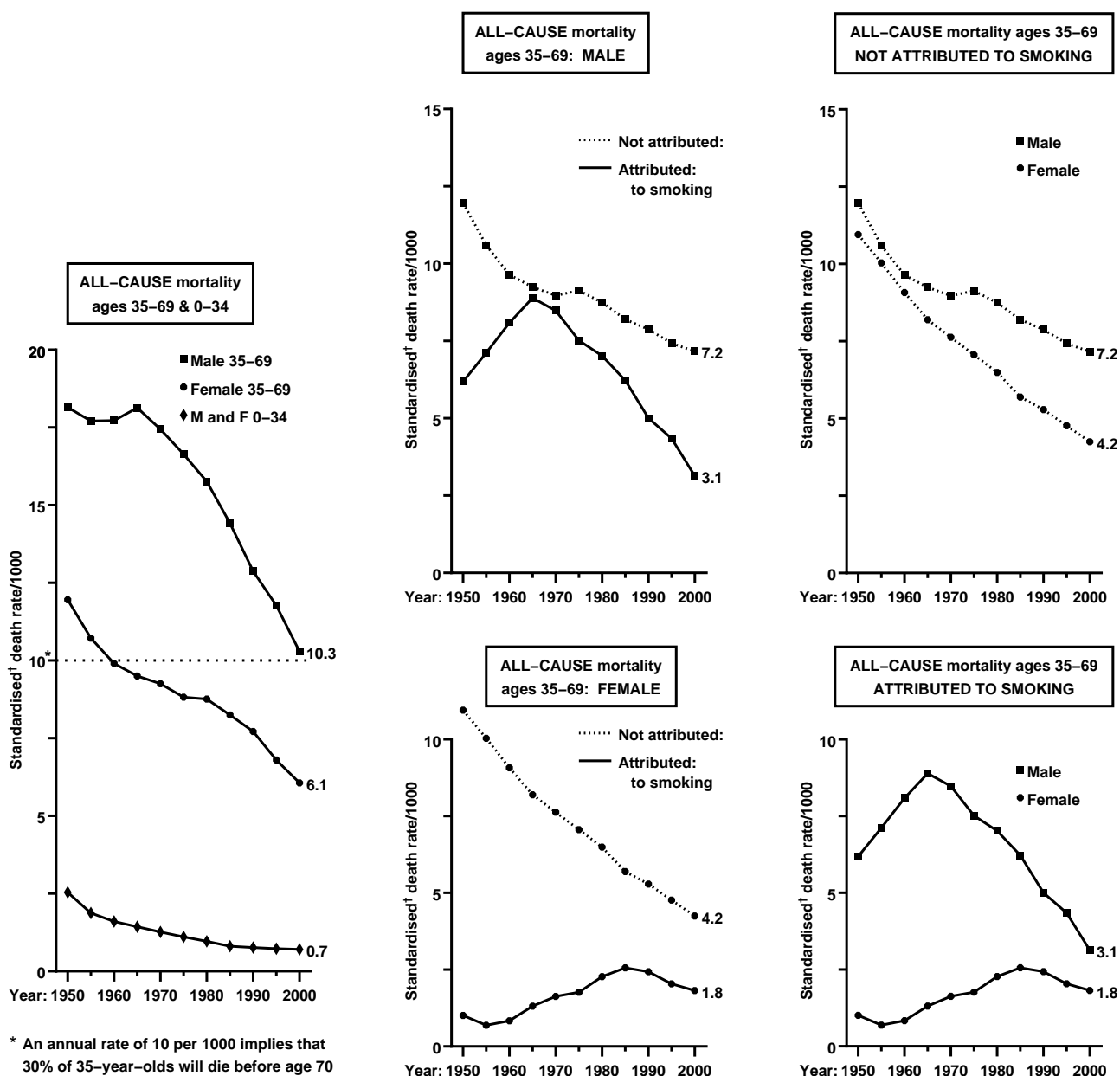
*Estimated as 10 times the sum of the annual numbers for 1955, 1965, 1975, 1985 & 1995

1950-2000: SCOTLAND



SCOTLAND: 1950-2000

ALL-CAUSE mortality rates attributed and not attributed to smoking



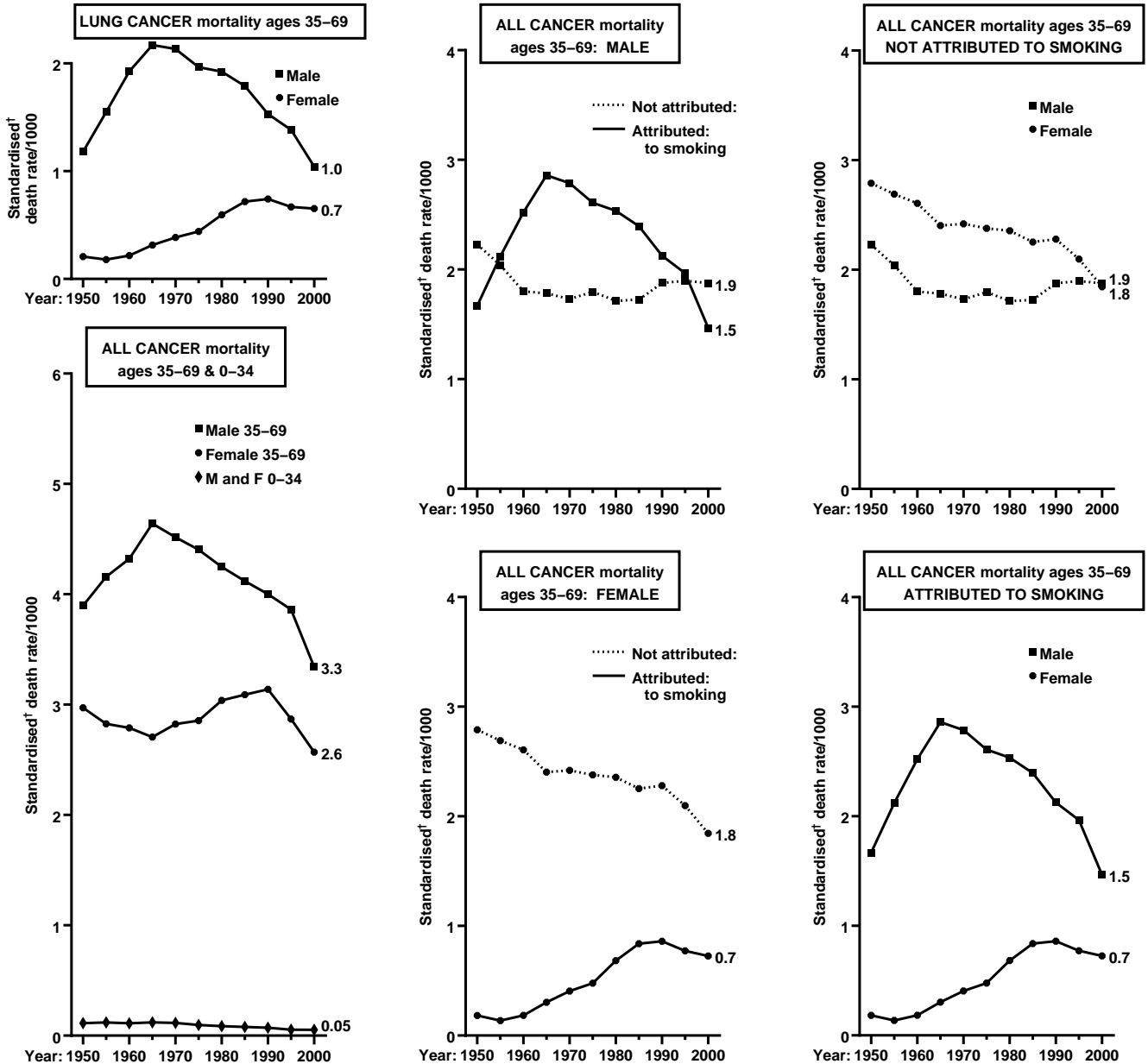
* An annual rate of 10 per 1000 implies that 30% of 35-year-olds will die before age 70

† 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)						
	0-34		35-69		70-79		0-34		35-69		70-79			
	Attributed to smoking?	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		
1955	-	2.12	7.11	10.6	9.19	80.3	-	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		
1965	-	1.69	8.89	9.24	23.5	67.3	-	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		
1975	-	1.36	7.51	9.13	29.6	57.8	-	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		
1985	-	0.98	6.22	8.19	27.0	54.1	-	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		
1995	-	0.96	4.34	7.42	20.7	45.4	-	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		

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

ALL CANCER mortality rates attributed and not attributed to smoking



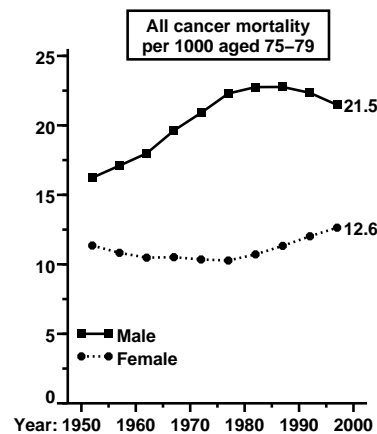
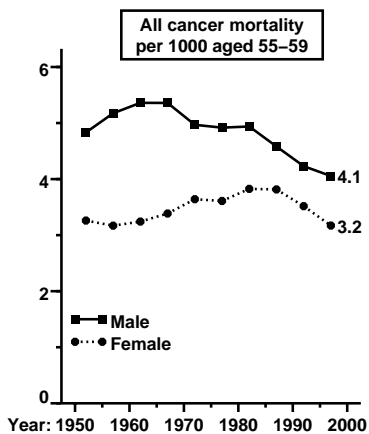
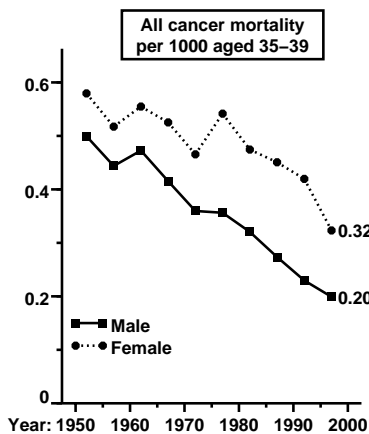
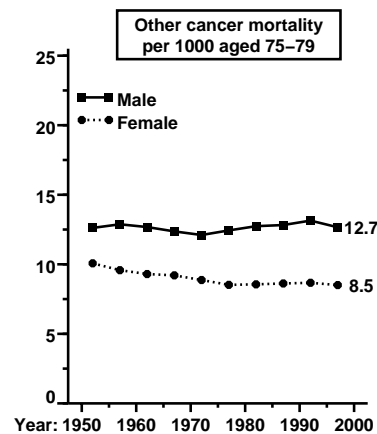
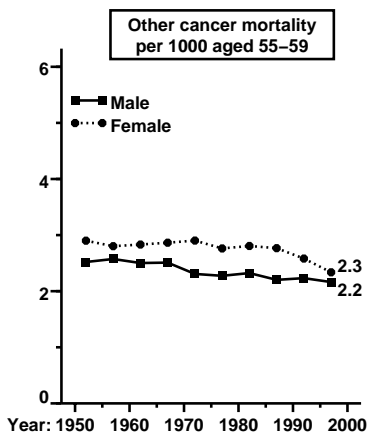
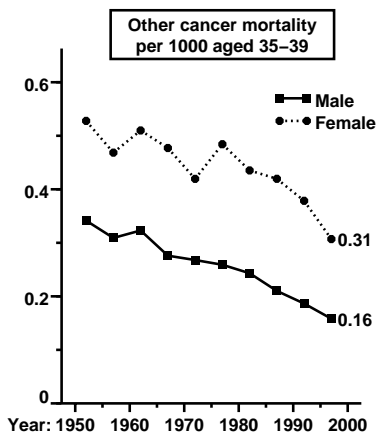
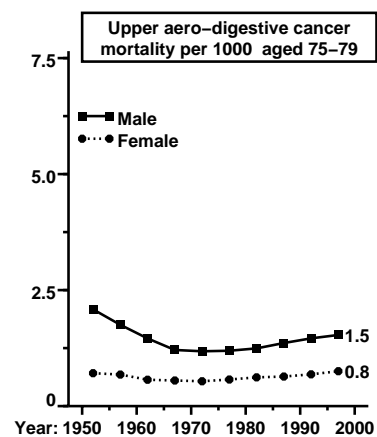
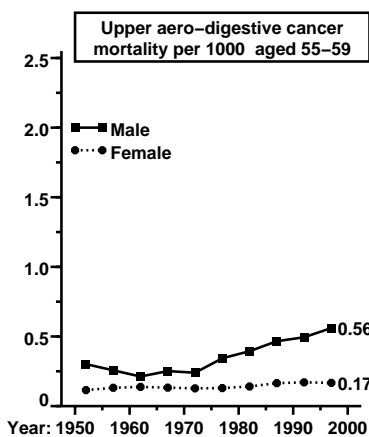
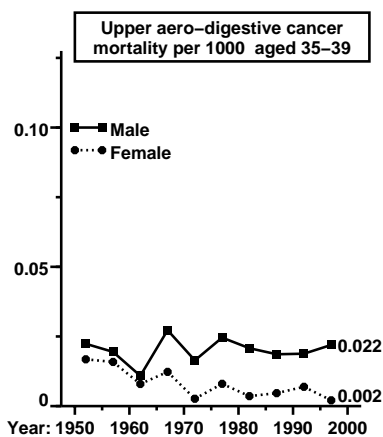
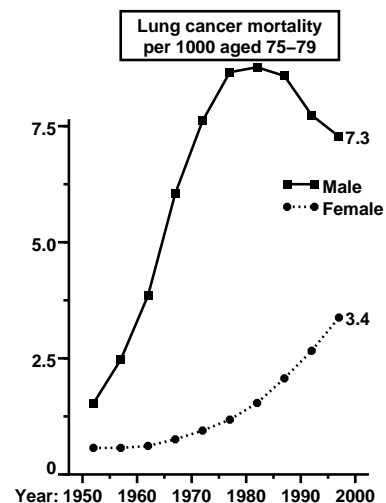
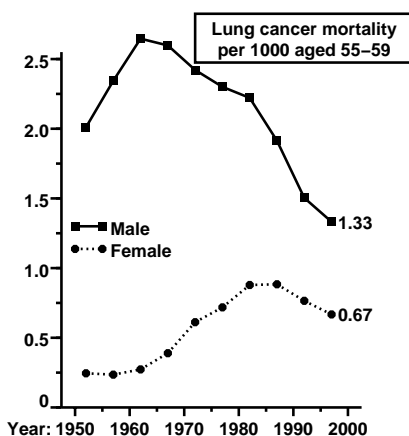
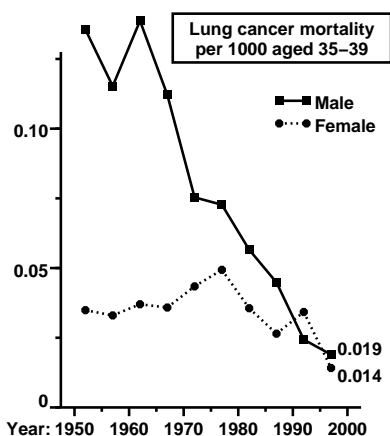
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

Year	MALE cancer mortality (annual rate/1000, by age)							FEMALE cancer mortality (annual rate/1000, by age)					
	0-34		35-69		70-79		0-34		35-69		70-79		
	Attributed to smoking?		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	
1955	-	0.11	2.12	2.04	2.84	11.7	-	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	
1965	-	0.12	2.86	1.78	7.46	10.3	-	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	
1975	-	0.10	2.61	1.80	10.8	8.96	-	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	
1985	-	0.08	2.39	1.72	10.9	9.31	-	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	
1995	-	0.05	1.96	1.90	9.53	9.84	-	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	

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

SCOTLAND: 1950-2000

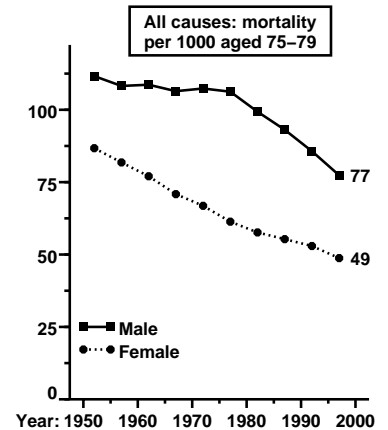
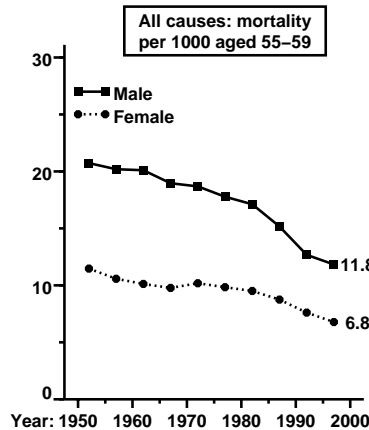
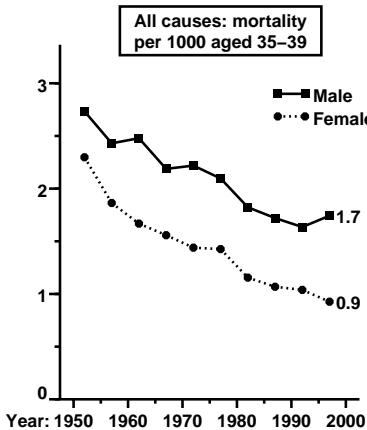
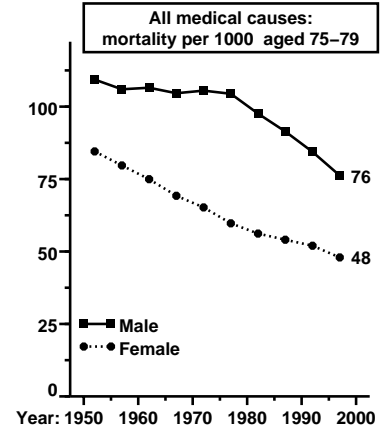
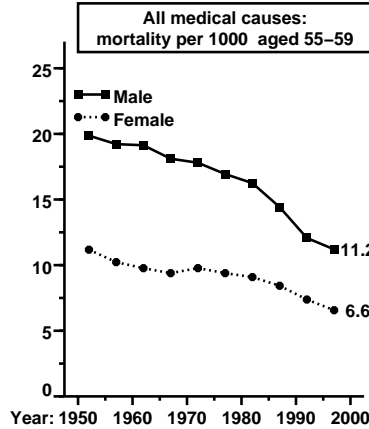
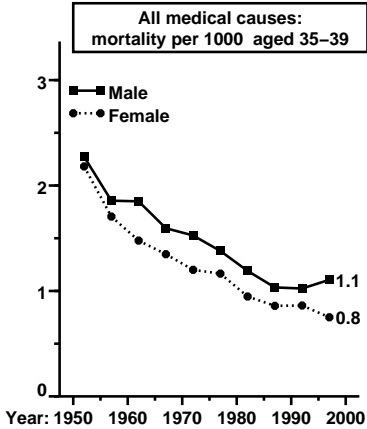
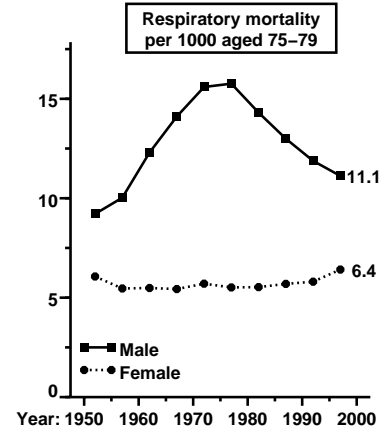
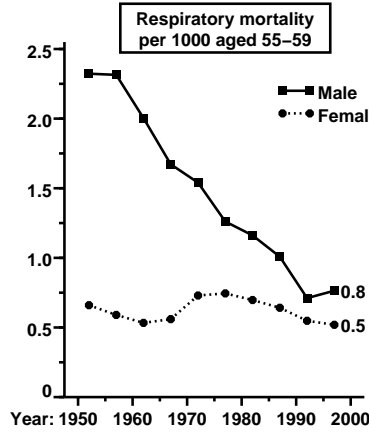
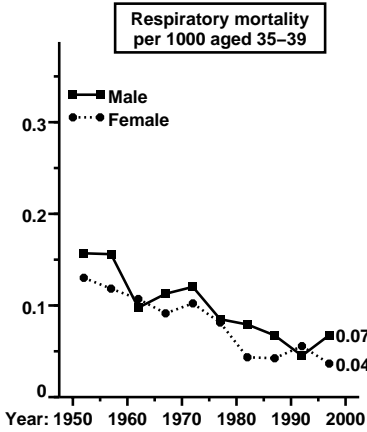
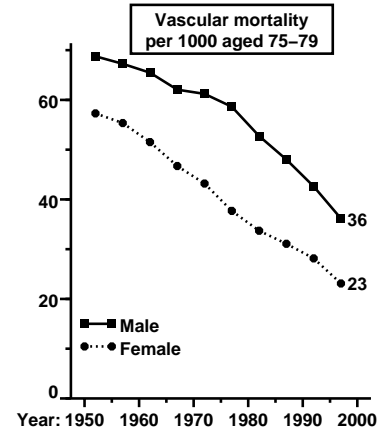
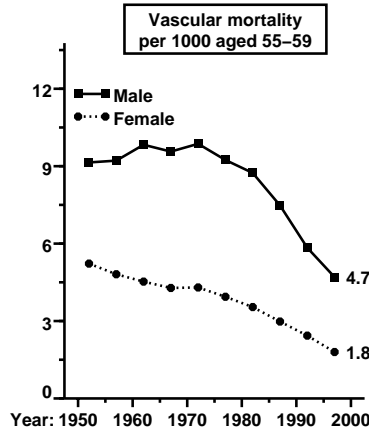
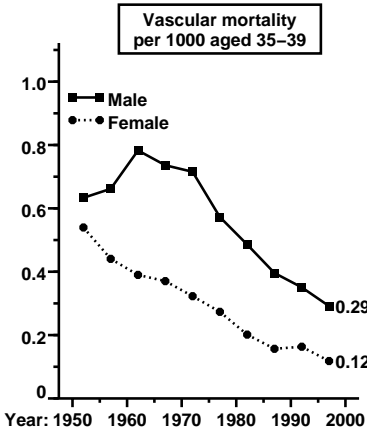
Mortality* trends at selected ages: 35-39, 55-59 & 75-79



* Annual mortality per 1000: averages of years available in 1950-54,.....,1995-99; year 2000 on pages 2-3

1950-2000: SCOTLAND

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



* Annual mortality per 1000: averages of years available in 1950-54,.....,1995-99; year 2000 on pages 2-3