

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

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**UNITED KINGDOM**

**Raw data** (pages 494–95, 496–97)

**Analyses** (pages 498–99, 500–501, 502–3)

**Appendix** (pages 504–5)

## UNITED KINGDOM: 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	290186	10009	83480	836.8	74.4	804.6	137.7	13.1	16.4	56.7	85.0	102.0	109.7
	F	318180	5273	54196	577.3	39.7	495.4	112.7	9.7	10.7	25.3	30.2	37.7	51.7
Tuberculosis	M	269	5	92	0.8	0.0	0.9	-	-	0.1	-	-	-	0.2
	F	231	12	65	0.5	0.1	0.6	0.1	0.1	-	-	0.1	0.3	0.1
HIV	M	161	34	124	0.5	0.2	0.9	0.1	-	-	-	0.1	0.5	0.9
	F	45	15	27	0.1	0.1	0.2	-	-	-	-	-	0.2	0.5
Other infective and parasitic	M	1619	208	544	5.0	1.6	4.9	5.3	0.4	0.6	1.1	1.3	0.9	1.5
	F	1994	183	421	4.2	1.4	3.7	4.9	0.7	0.4	1.3	0.9	1.2	0.7
ALL CANCER	M	78011	799	28539	228.6	5.8	281.6	3.1	3.5	2.8	5.1	5.7	7.8	12.4
	F	73175	775	25432	163.4	5.4	230.5	2.1	2.0	2.3	3.2	4.8	7.3	15.8
Mouth and pharynx cancer	M	1183	13	697	3.7	0.1	6.5	0.1	-	-	0.1	0.1	0.1	0.3
	F	731	12	286	1.7	0.1	2.6	-	-	0.1	0.1	0.1	0.2	0.3
Oesophagus cancer	M	4296	7	1904	12.9	0.0	18.4	-	-	-	-	-	0.1	0.3
	F	2623	2	630	5.2	0.0	5.9	-	-	-	-	-	0.1	-
Stomach cancer	M	4080	11	1327	11.8	0.1	13.3	-	-	-	0.1	0.1	0.2	0.2
	F	2528	13	581	5.0	0.1	5.4	-	-	-	-	0.1	0.1	0.5
Colorectal cancer	M	8539	34	3081	24.9	0.2	30.6	-	-	-	0.1	0.3	0.4	0.9
	F	7726	33	1981	15.5	0.2	18.3	-	-	0.1	0.2	0.4	0.2	0.8
Liver cancer	M	668	12	328	2.0	0.1	3.2	-	0.1	-	0.1	0.1	0.3	0.1
	F	208	7	85	0.5	0.0	0.8	0.1	-	0.1	-	0.1	0.1	0.1
Pancreas cancer	M	3369	9	1436	10.1	0.1	14.0	-	-	-	-	-	0.1	0.4
	F	3528	3	1055	7.5	0.0	9.9	-	-	0.1	-	-	0.1	0.0
Larynx cancer	M	676	2	335	2.1	0.0	3.2	-	-	-	-	-	-	0.1
	F	165	-	62	0.4	-	0.6	-	-	-	-	-	-	-
Lung cancer	M	20684	23	7872	60.7	0.2	79.2	-	-	-	0.1	0.2	0.2	0.7
	F	13085	11	4728	30.2	0.1	44.4	-	-	-	-	-	0.1	0.4
Malignant melanoma	M	862	43	518	2.7	0.3	4.7	-	-	0.1	0.2	0.3	0.5	1.1
	F	820	23	409	2.1	0.2	3.5	0.1	-	-	0.1	0.1	0.4	0.5
Female breast cancer	F	12768	159	5916	31.2	1.0	51.0	-	-	-	-	0.3	1.3	5.5
Cervix cancer	F	1253	58	677	3.3	0.4	5.6	-	-	-	-	0.2	0.8	1.7
Other uterine cancer	F	1494	4	518	3.3	0.0	4.9	-	-	-	-	-	0.1	0.1
Ovarian cancer	F	4422	36	2107	11.1	0.3	19.1	-	0.1	-	0.1	0.4	0.6	0.6
Prostate cancer	M	9279	-	1522	25.2	-	16.3	-	-	-	-	-	-	-
Bladder cancer	M	3195	6	783	9.0	0.0	8.0	-	-	-	-	0.1	0.1	0.2
	F	1746	2	325	3.2	0.0	3.1	-	-	-	-	-	-	0.1
Other and ill-defined cancer sites	M	15401	370	6407	46.1	2.7	61.7	1.5	2.1	1.4	2.4	3.0	3.6	4.9
	F	14721	254	4432	31.6	1.8	40.5	1.1	1.1	1.6	1.4	2.2	2.1	3.3
Hodgkin's disease	M	154	24	98	0.5	0.2	0.9	-	-	0.1	-	0.2	0.5	0.5
	F	124	17	55	0.3	0.1	0.5	-	-	-	-	0.3	0.3	0.3
Myeloma and non-Hodgkin lymphomas	M	3442	73	1471	10.3	0.5	14.2	0.1	0.2	0.3	0.5	0.3	0.8	1.4
	F	3429	42	1088	7.4	0.3	10.1	0.1	0.1	-	0.5	0.3	0.3	0.8
Leukaemia	M	2183	172	760	6.5	1.3	7.3	1.4	1.1	1.1	1.7	1.0	1.2	1.4
	F	1804	99	497	3.9	0.7	4.4	0.8	0.7	0.5	0.8	0.6	0.9	0.9
Diabetes	M	3047	40	889	8.7	0.3	8.7	-	-	-	0.3	0.2	0.7	0.8
	F	3431	35	631	6.3	0.2	5.9	-	0.1	0.1	0.2	0.2	0.5	0.7
ALL VASCULAR DISEASE	M	113784	609	30822	322.2	4.4	303.6	4.6	0.7	0.8	2.2	3.8	7.3	11.2
	F	122939	385	13506	202.6	2.8	128.2	4.5	0.4	0.6	1.7	2.4	4.4	5.5
Rheumatic heart disease and fever	M	468	10	152	1.4	0.1	1.5	0.1	-	-	-	0.1	0.2	0.2
	F	1321	5	296	2.5	0.0	2.9	0.1	-	-	-	0.1	-	0.1
Hypertensive disease	M	1596	7	545	4.6	0.0	5.2	-	0.1	-	-	-	-	0.3
	F	2027	3	263	3.4	0.0	2.5	-	-	-	-	-	-	0.1
Ischaemic heart disease	M	68459	127	21175	196.3	0.9	208.6	0.2	-	-	0.2	0.5	1.6	3.7
	F	55608	32	6863	94.1	0.2	66.2	0.2	-	0.1	-	0.1	0.4	0.8
Pulmonary embolism and other venous	M	2999	27	978	8.6	0.2	9.4	0.1	-	-	0.1	0.1	0.4	0.7
	F	5008	55	957	9.4	0.4	8.8	0.1	-	0.1	0.1	0.6	0.6	1.2
Cerebrovascular disease	M	22599	144	4164	62.0	1.0	41.2	1.0	0.2	0.5	0.3	0.9	1.8	2.6
	F	38196	108	3299	60.0	0.8	30.7	0.5	0.3	0.2	0.7	0.6	1.5	1.7
Other vascular disease	M	17663	294	3808	49.3	2.2	37.6	3.2	0.5	0.4	1.7	2.3	3.3	3.7
	F	20779	182	1828	33.1	1.4	17.2	3.7	0.2	0.3	0.9	1.1	2.0	1.5
Chronic obstructive pulmonary disease	M	15990	82	3247	44.2	0.6	33.5	0.3	0.2	0.6	0.4	0.9	0.7	1.0
	F	13277	61	2547	25.7	0.4	24.6	-	0.3	0.3	0.5	0.6	0.6	0.9
Other respiratory disease	M	30222	294	3990	81.7	2.2	39.5	6.7	0.3	0.4	1.4	1.7	1.8	3.1
	F	42567	206	2608	63.5	1.5	24.3	4.1	0.6	0.8	1.0	1.1	1.1	2.2
Peptic ulcer	M	2058	6	541	5.8	0.0	5.2	-	-	-	-	-	0.1	0.2
	F	2386	9	326	4.1	0.1	3.1	0.1	0.1	0.1	0.1	-	0.2	0.1
Liver cirrhosis	M	3619	102	2922	12.2	0.7	24.8	-	-	0.1	-	0.1	1.1	3.5
	F	2198	76	1573	6.6	0.5	13.0	0.1	-	-	0.1	0.2	1.3	1.9
Renal disease	M	1898	18	319	5.2	0.1	3.2	0.4	-	-	0.1	0.2	0.2	0.1
	F	2190	35	263	3.7	0.3	2.4	0.7	0.2	0.1	0.1	0.1	0.4	0.4
Pregnancy, birth	F	46	32	14	0.1	0.2	0.1	-	-	-	0.1	0.1	0.6	0.7
Congenital and perinatal causes	M	2051	1724	209	8.5	13.5	1.7	86.6	0.8	1.4	1.5	1.4	1.4	1.4
	F	1718	1372	199	7.1	11.2	1.6	71.8	1.0	0.6	1.2	1.2	1.2	1.4
Ill-defined causes	M	3235	332	356	9.2	2.6	3.0	12.2	0.1	0.2	0.7	1.3	2.0	1.5
	F	10992	194	167	14.8	1.6	1.4	8.8	0.1	0.1	0.3	0.6	0.4	0.6
Other medical causes	M	21914	1576	5572	63.2	11.6	50.9	12.1	3.4	3.0	7.8	14.9	18.8	20.9
	F	33769	807	4398	57.9	6.0	39.5	9.9	2.5	3.2	4.9	5.8	6.9	8.6
ALL NON-MEDICAL CAUSES	M	12308	4180	5314	40.8	30.9	42.2	6.3	3.8	6.7	36.0	53.4	58.9	50.9
	F	7222	1076	2019	16.6	7.9	16.1	5.7	1.7	2.3	10.7	12.1	11.4	11.6
Road traffic accidents	M	2483	1274	916	8.6	9.5	7.2	1.0	1.8	3.2	16.9	17.1	15.4	11.3
	F	871	284	301	2.5	2.1	2.4	0.8	0.6	1.2	3.9	3.8	2.5	2.2
Fire	M	252	71	103	0.8	0.5	0.8	0.4	0.5	0.4	0.3	0.5	0.5	1.1
	F	182	29	64	0.5	0.2	0.5	0.5	0.2	0.1	0.1	0.2	0.1	0.3
Suicide	M	3311	1163	1811	11.3	8.5	14.0	-	-	0.3	6.5	15.5	19.3	17.9
	F	979	272	545	3.1	1.9	4.2	-	-	0.2	2.3	3.4	3.9	3.8
Homicide	M	351	201	141	1.3	1.5	1.0	0.7	0.5	0.4	1.6	3.3	2.5	1.7
	F	178	82	74	0.6	0.6	0.5	0.8	0.2	0.2	1.0	0.7	0.8	0.7
POPULATION:			M=male											
(1000s; UN, 2004 revision)			F=female											
				28513	13464	12391	1816	1924	1992	1837	1753	1913	1913	2229
				30157	13									

## 2000: UNITED KINGDOM

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			
139.4	193.9	315.4	476.1	812.8	1403.6	2291.1	3874.7	6432.4	13236.2	M	ALL CAUSES	001-999/A00-Y89
78.2	130.1	207.1	320.3	511.7	839.0	1381.4	2348.9	4139.2	11202.3	F		
0.4	0.2	0.4	0.4	1.0	1.5	2.2	3.9	6.3	10.2	M	Tuberculosis	010-018, 137/ A15-A19, B90
0.1	0.2	0.2	0.3	0.3	0.8	2.4	2.2	4.2	4.7	F		
1.8	1.5	1.3	0.4	0.4	0.6	0.5	0.3	-	-	M	HIV	279.5, 279.6/B20-B24
0.6	0.2	0.2	-	0.1	0.2	-	0.1	0.2	-	F		
1.8	2.3	3.7	3.7	4.5	7.6	11.1	16.6	28.3	59.1	M	Other infective and parasitic	Rest of 001-139/rest of A00-B99 excl A33,A34
1.2	1.4	2.1	2.8	3.8	6.1	8.6	12.9	21.9	60.1	F		
19.9	37.3	82.2	156.0	294.8	539.2	841.8	1288.4	1848.0	2554.7	M	ALL CANCER	140-208/C00-C97
28.7	59.2	101.5	173.1	270.6	402.8	577.8	819.9	1090.1	1476.9	F		
0.4	1.4	3.4	6.2	8.4	11.4	14.4	14.2	18.2	22.3	M	Mouth and pharynx cancer	140-149/C00-C14
0.3	0.5	1.1	2.0	3.2	4.9	6.1	7.2	8.3	15.1	F		
0.9	2.3	6.1	12.3	24.5	35.1	47.9	67.3	95.0	114.8	M	Oesophagus cancer	150/C15
0.3	0.6	1.6	3.5	6.6	12.0	17.0	30.4	44.2	67.5	F		
1.0	1.6	3.8	5.8	12.1	25.2	43.7	75.6	101.4	142.7	M	Stomach cancer	151/C16
0.7	1.1	1.8	2.9	4.8	9.3	17.4	27.5	42.4	67.6	F		
1.4	3.8	7.9	16.0	31.8	59.6	94.0	143.8	212.0	278.0	M	Colorectal cancer	153, 154/C18-C21
1.4	3.9	6.0	12.1	20.5	31.5	52.9	78.5	122.1	204.1	F		
0.4	0.5	1.1	2.2	2.9	5.9	9.3	12.8	12.6	11.5	M	Liver cancer	155.0/C22 excl C221
0.2	0.2	0.3	0.7	0.8	1.2	1.8	2.8	2.9	2.9	F		
0.6	1.7	4.9	8.3	17.9	28.1	36.6	54.8	72.8	95.9	M	Pancreas cancer	157/C25
0.4	1.2	2.7	5.2	11.5	18.6	29.9	43.2	59.5	76.1	F		
0.2	0.3	1.0	2.8	3.9	6.5	7.8	9.5	12.0	18.0	M	Larynx cancer	161/C32
-	0.1	0.1	0.2	0.9	1.1	1.7	1.9	2.5	3.0	F		
1.8	6.0	16.0	37.8	83.3	155.9	254.0	386.4	524.0	565.4	M	Lung cancer	162/C33, C34
1.3	5.6	13.7	26.2	50.0	81.0	132.7	202.2	229.4	191.7	F		
1.5	1.8	2.5	4.3	5.5	7.9	9.3	10.5	11.0	12.9	M	Malignant melanoma	172/C43
0.6	2.1	3.0	3.6	4.1	4.8	6.2	7.1	7.4	13.1	F		
11.5	21.4	33.2	54.3	66.8	79.5	90.3	109.7	143.8	224.4	F	Female breast cancer	174/C50
3.1	4.7	5.1	5.0	6.0	7.2	7.9	10.5	13.3	14.2	F	Cervix cancer	180/C53
0.1	0.5	1.6	2.7	5.8	10.0	13.4	15.5	23.8	30.8	F	Other uterine cancer	179, 182/C54, C55
1.3	3.7	9.0	14.7	24.9	37.2	43.2	50.6	54.9	61.6	F	Ovarian cancer	183/C56, C570-C574
0.0	0.1	0.9	3.3	9.1	31.0	69.4	131.2	255.9	549.0	M	Prostate cancer	185/C61
-	0.4	1.6	3.0	6.8	17.0	27.3	58.2	80.2	145.6	M	Bladder cancer	188/C67
0.3	0.4	0.9	1.7	2.4	5.7	10.1	17.2	28.1	54.1	F		
7.9	12.3	24.4	39.9	65.2	116.5	165.9	237.9	330.0	436.8	M	Other and ill-defined cancer sites	Rest of 140-199/ rest of C00-C80, C97
5.0	9.1	15.2	28.8	46.5	71.7	107.2	158.2	226.3	333.9	F		
0.5	0.4	0.4	0.8	0.9	1.2	1.9	0.8	1.8	1.0	M	Hodgkin's disease	201/C81
0.4	0.2	0.4	0.5	0.4	0.6	0.7	1.2	1.5	1.2	F		
1.8	3.0	5.7	8.7	14.9	25.6	39.7	53.3	75.3	92.0	M	Myeloma and non- Hodgkin lymphomas	200, 202-203/ C82-C90, C96
0.8	2.2	3.5	5.6	11.3	18.7	28.7	38.5	53.5	73.5	F	Leukaemia	204-208/C91-C95
1.5	1.8	2.5	4.6	7.6	12.5	20.7	32.0	45.9	68.9	M		
1.2	1.5	2.6	3.4	4.0	7.9	10.4	17.6	26.3	42.0	F		
1.6	1.9	3.2	4.4	7.3	16.7	25.4	46.1	67.5	138.5	M	Diabetes	250/E10-E14
1.3	1.1	1.7	2.5	4.3	11.2	19.5	28.8	48.6	113.7	F		
23.2	49.8	98.4	170.3	304.8	539.9	938.7	1621.7	2753.4	5478.8	M	ALL VASCULAR DISEASE	390-459/I00-I99
10.2	20.2	35.7	58.3	108.1	224.3	440.9	863.9	1731.1	4832.5	F		
0.3	0.1	0.5	0.8	1.6	2.8	4.3	7.3	12.6	16.2	M	Rheumatic heart disease and fever	390-398/I00-I09
0.3	0.5	0.5	0.9	2.0	5.2	10.6	13.2	22.1	36.9	F		
0.5	1.4	2.0	2.7	7.0	9.5	13.6	21.6	36.6	66.3	M	Hypertensive disease	401-405/I10-I15
0.3	0.2	0.6	1.3	2.4	4.7	7.8	16.0	26.8	77.3	F		
11.9	31.0	66.7	118.5	220.6	380.9	630.7	1041.4	1648.5	2907.5	M	Ischaemic heart disease	410-414/I20-I25
2.8	7.4	13.8	25.2	52.1	121.0	241.0	455.5	872.2	2032.3	F		
1.6	2.5	4.1	5.9	8.9	14.9	27.9	41.5	73.3	122.5	M	Pulmonary embolism and other venous	415.1, 451-453/ I26, I80-I82
1.5	2.2	3.8	5.2	9.0	14.3	25.2	44.9	76.3	157.3	F		
4.4	8.3	13.6	22.2	33.3	67.9	138.8	269.9	561.5	1392.9	M	Cerebrovascular disease	430-438/I60-I69
3.0	6.7	12.2	17.7	27.4	50.2	97.8	212.0	475.1	1647.8	F		
4.6	6.4	11.6	20.2	33.4	63.9	123.4	240.1	420.9	973.4	M	Other vascular disease	Rest of 390-459/ rest of I00-I99
2.3	3.2	4.7	7.9	15.1	28.9	58.5	122.3	258.5	881.0	F		
0.9	2.4	5.1	10.4	28.4	65.1	122.1	255.4	448.7	807.2	M	Chronic obstructive pulmonary disease	490-496/ J40-J47, J67
0.9	2.2	4.2	9.4	20.9	45.5	89.3	175.0	262.4	334.0	F		
3.8	7.5	12.6	20.5	34.7	68.7	128.6	280.8	631.1	2288.9	M	Other respiratory disease	Rest of 460-519/ rest of J00-J98
3.3	4.8	9.4	12.5	22.3	42.4	75.5	173.8	422.9	2023.4	F		
0.4	1.1	2.1	3.4	5.5	9.0	15.0	29.5	55.1	96.0	M	Peptic ulcer	531-533/K25-K27
0.3	0.8	0.8	1.1	2.7	5.2	10.9	18.7	36.2	86.3	F		
8.2	17.1	25.5	29.1	32.4	34.1	27.5	26.0	22.4	17.4	M	Liver cirrhosis	571/K70, K74
4.8	8.5	12.6	14.7	16.3	16.0	18.4	15.9	15.6	10.2	F		
0.4	0.7	0.8	1.7	2.7	4.8	11.0	21.9	43.9	124.7	M	Renal disease	580-590/N00-N19
0.6	0.3	0.7	1.6	2.2	4.3	7.3	13.3	25.5	88.5	F		
0.5	0.1	-	-	-	-	-	-	-	-	F	Pregnancy, birth	630-676/A34,000-099
1.5	1.2	1.4	1.7	2.6	2.1	1.6	2.5	4.4	7.1	M	Congenital and perinatal causes	740-779/A33, P00-P96, Q00-Q99
1.2	1.3	1.2	1.6	2.0	2.0	2.1	2.7	3.3	4.6	F		
2.4	2.0	2.8	2.5	3.9	3.5	3.8	5.9	14.4	304.5	M	Ill-defined causes	780-799/R00-R99
0.9	1.0	1.0	1.1	1.3	1.8	3.0	5.3	21.8	639.3	F		
21.3	24.0	30.9	33.1	51.8	73.0	122.4	221.6	427.2	1147.0	M	Other medical causes	Rest of 001-799/ rest of A00-R99
10.4	13.7	19.6	26.5	40.2	61.2	104.9	185.6	401.2	1335.7	F		
51.8	44.8	44.9	38.4	38.1	37.9	39.5	54.2	81.5	202.2	M	ALL NON- MEDICAL CAUSES	E800-E999/V01-Y89
13.4	15.1	16.5	15.0	16.8	15.3	20.8	30.9	54.1	192.5	F		
10.7	7.9	6.7	6.1	5.7	6.4	6.8	7.3	8.9	18.4	M	Road traffic accidents	E810-E819, E826-E829/ part of V01-V99, Y850
2.1	2.3	2.6	1.7	2.5	2.0	3.8	5.3	6.5	8.8	F		
0.6	0.9	0.9	0.7	1.1	1.0	0.7	1.9	2.8	4.5	M	Fire	E890-E899/X00-X09
0.3	0.4	0.5	0.5	0.6	0.5	0.9	0.5	1.9	3.8	F		
18.8	16.3	17.3	14.0	12.0	10.4	9.4	10.7	11.7	16.3	M	Suicide	E950-E959/X60-X84
4.3	4.5	5.3	4.5	4.3	3.2	3.1	4.1	4.0	3.9	F		
2.1	1.7	0.8	0.9	1.1	0.5	0.2	0.4	0.5	0.1	M	Homicide	E960-E969/ X85-X99, Y00-Y09
0.8	1.2	0.5	0.4	0.4	0.1	0.2	0.4	0.7	0.6	F		
2275	2016	1826	2039	1607	1389	1238	1061	820	777	M	POPULATION	
2348	2056	1864	2060	1640	1447	1353	1290	1153	1613	F	(1000s; UN, 2004 revision)	

<b>UNITED KINGDOM: 1995, 2000</b>
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**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
<b>1995</b>												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	11417	904	17	23	864	62	420	709	80	4594	4648
35-69	Sm.	27990	12946	8746	1694	2506	2909	857	9240	-	2038	-
	Total	93479	31547	9609	2871	19067	3895	3620	39033	1911	8458	5015
		(30%)	(41%)	(91%)	(59%)	(13%)	(75%)	(24%)	(24%)		(24%)	
70+	Sm.	48403	19368	12783	1963	4622	10896	2943	12443	-	2753	-
	Total	205826	49867	13936	3159	32772	14490	23989	92959	556	21490	2475
		(24%)	(39%)	(92%)	(62%)	(14%)	(75%)	(12%)	(13%)		(13%)	
Any age	Sm.	76393	32314	21529	3657	7128	13805	3800	21683	-	4791	-
	Total	310722	82318	23562	6053	52703	18447	28029	132701	2547	34542	12138
		(25%)	(39%)	(91%)	(60%)	(14%)	(75%)	(14%)	(16%)		(14%)	
<b>2000</b>												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	10009	799	23	22	754	82	294	609	102	3943	4180
35-69	Sm.	21196	10405	6984	1548	1873	2251	780	6040	-	1720	-
	Total	83480	28539	7872	2936	17731	3247	3990	30822	2922	8646	5314
		(25%)	(36%)	(89%)	(53%)	(11%)	(69%)	(20%)	(20%)		(20%)	
70+	Sm.	42279	17688	11609	1896	4183	9265	2899	9718	-	2709	-
	Total	196697	48673	12789	3197	32687	12661	25938	82353	595	23663	2814
		(21%)	(36%)	(91%)	(59%)	(13%)	(73%)	(11%)	(12%)		(11%)	
Any age	Sm.	63475	28093	18593	3444	6056	11516	3679	15758	-	4429	-
	Total	290186	78011	20684	6155	51172	15990	30222	113784	3619	36252	12308
		(22%)	(36%)	(90%)	(56%)	(12%)	(72%)	(12%)	(14%)		(12%)	

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>
<b>POPULATION (1000s; UN, 2004 revision)</b>													
1995	27900	13567	11800	2027	1865	2043	1738	1484	1374	1269	1097	732	703
2000	28513	13464	12391	2275	2016	1826	2039	1607	1389	1238	1061	820	777
<b>NUMBER OF DEATHS (Source: WHO)</b>													
<b>All causes</b>													
1995	310722	11417	93479	2821	3933	6578	9066	13937	22131	35013	50446	50633	104747
2000	290186	10009	83480	3171	3910	5760	9710	13060	19496	28373	41126	52726	102845
<b>Lung cancer</b>													
1995	23562	17	9609	44	149	410	831	1511	2544	4120	5145	4112	4679
2000	20684	23	7872	40	120	293	771	1338	2165	3145	4101	4295	4393
<b>ANNUAL DEATH RATE / 100,000</b> (*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)													
<b>All causes</b>													
1995	946.9*	82.6*	928.9*	139.2	210.9	321.9	521.7	938.9	1611.3	2758.4	4597.7	6913.3	14891.5
2000	836.8*	74.4*	804.6*	139.4	193.9	315.4	476.1	812.8	1403.6	2291.1	3874.7	6432.4	13236.2
<b>All cancer</b>													
1995	253.4*	6.4*	317.9*	21.4	45.5	89.9	180.4	339.8	576.0	972.0	1447.4	1892.0	2861.7
2000	228.6*	5.8*	281.6*	19.9	37.3	82.2	156.0	294.8	539.2	841.8	1288.4	1848.0	2554.7
<b>Lung cancer</b>													
1995	72.5*	0.1*	98.5*	2.2	8.0	20.1	47.8	101.8	185.2	324.6	468.9	561.4	665.2
2000	60.7*	0.2*	79.2*	1.8	6.0	16.0	37.8	83.3	155.9	254.0	386.4	524.0	565.4
<b>Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)</b>													
1995	19.1*	0.2*	28.3*	1.6	5.1	10.4	22.2	34.4	52.3	72.2	103.8	126.0	156.0
2000	18.7*	0.2*	28.2*	1.5	4.0	10.5	21.2	36.8	53.0	70.1	91.0	125.2	155.1
<b>Other cancer</b>													
1995	161.7*	6.2*	191.0*	17.6	32.4	59.4	110.4	203.7	338.5	575.2	874.7	1204.5	2040.5
2000	149.2*	5.5*	174.2*	16.6	27.4	55.6	96.9	174.7	330.4	517.8	811.0	1198.9	1834.2
<b>Chronic obstructive pulmonary disease (COPD)</b>													
1995	54.0*	0.5*	40.9*	1.1	2.2	4.9	12.6	28.9	76.1	160.5	326.2	515.3	1014.6
2000	44.2*	0.6*	33.5*	0.9	2.4	5.1	10.4	28.4	65.1	122.1	255.4	448.7	807.2
<b>Other respiratory disease</b>													
1995	81.6*	3.0*	36.1*	7.2	9.3	12.6	17.3	29.6	57.4	119.4	275.1	570.9	2387.0
2000	81.7*	2.2*	39.5*	3.8	7.5	12.6	20.5	34.7	68.7	128.6	280.8	631.1	2288.9
<b>Vascular disease</b>													
1995	399.3*	5.0*	394.2*	25.6	59.3	116.1	206.9	396.3	714.5	1240.5	2110.6	3224.3	6566.1
2000	322.2*	4.4*	303.6*	23.2	49.8	98.4	170.3	304.8	539.9	938.7	1621.7	2753.4	5478.8
<b>Liver cirrhosis</b>													
1995	8.8*	0.5*	17.2*	5.6	11.0	15.6	16.7	23.4	25.3	22.8	24.0	22.8	17.9
2000	12.2*	0.7*	24.8*	8.2	17.1	25.5	29.1	32.4	34.1	27.5	26.0	22.4	17.4
<b>Other medical causes</b>													
1995	108.1*	33.6*	80.5*	31.6	35.8	41.7	48.7	79.2	125.6	200.7	363.8	609.6	1852.9
2000	106.9*	29.9*	79.5*	31.6	35.0	46.7	51.5	79.7	118.8	193.0	348.2	647.2	1887.0
<b>All non-medical causes</b>													
1995	41.7*	33.5*	42.2*	46.7	47.9	41.1	39.0	41.7	36.5	42.5	50.6	78.4	191.4
2000	40.8*	30.9*	42.2*	51.8	44.8	44.9	38.4	38.1	37.9	39.5	54.2	81.5	202.2

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

## 1995, 2000: UNITED KINGDOM

## 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
<b>1995</b>												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	5956	918	11	17	890	64	245	455	50	3058	1166
35-69	Sm.	13235	5182	3961	531	690	2098	547	3983	-	1425	-
	Total	59708	27343	4951	1041	21351	2954	2436	17384	1144	6566	1881
		(22%)	(19%)	(80%)	(51%)	(3%)	(71%)	(22%)	(23%)		(22%)	
70+	Sm.	39377	9948	6859	1418	1671	7777	3838	13590	-	4224	-
	Total	269107	47297	8076	2422	36799	10257	39227	126908	549	40938	3931
		(15%)	(21%)	(85%)	(59%)	(5%)	(76%)	(10%)	(11%)		(10%)	
Any age	Sm.	52612	15130	10820	1949	2361	9875	4385	17573	-	5649	-
	Total	334771	75558	13038	3480	59040	13275	41908	144747	1743	50562	6978
		(16%)	(20%)	(83%)	(56%)	(4%)	(74%)	(10%)	(12%)		(11%)	
<b>2000</b>												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	5273	775	11	14	750	61	206	385	76	2694	1076
35-69	Sm.	11329	4804	3724	479	601	1760	549	2879	-	1337	-
	Total	54196	25432	4728	978	19726	2547	2608	13506	1573	6511	2019
		(21%)	(19%)	(79%)	(49%)	(3%)	(69%)	(21%)	(21%)		(21%)	
70+	Sm.	39983	10382	7135	1518	1729	8212	4189	12090	-	5110	-
	Total	258711	46968	8346	2527	36095	10669	39753	109048	549	47597	4127
		(15%)	(22%)	(85%)	(60%)	(5%)	(77%)	(11%)	(11%)		(11%)	
Any age	Sm.	51312	15186	10859	1997	2330	9972	4738	14969	-	6447	-
	Total	318180	73175	13085	3519	56571	13277	42567	122939	2198	56802	7222
		(16%)	(21%)	(83%)	(57%)	(4%)	(75%)	(11%)	(12%)		(11%)	

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
<b>POPULATION (1000s; UN, 2004 revision)</b>													
1995	29771	13653	12154	2104	1933	2003	1738	1506	1438	1433	1345	1080	1539
2000	30157	13333	12768	2348	2056	1864	2060	1640	1447	1353	1290	1153	1613
<b>NUMBER OF DEATHS (Source: WHO)</b>													
<b>All causes</b>													
1995	334771	5956	59708	1639	2564	4423	5966	8574	13519	23023	37965	45970	185172
2000	318180	5273	54196	1835	2674	3861	6598	8394	12139	18695	30299	47741	180671
<b>Lung cancer</b>													
1995	13038	11	4951	28	115	279	461	694	1261	2113	2907	2256	2913
2000	13085	11	4728	30	116	255	539	820	1172	1796	2608	2646	3092
<b>ANNUAL DEATH RATE / 100,000</b> (*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)													
<b>All causes</b>													
1995	632.6*	43.2*	555.9*	77.9	132.7	220.8	343.2	569.3	940.4	1606.9	2823.7	4255.7	12035.9
2000	577.3*	39.7*	495.4*	78.2	130.1	207.1	320.3	511.7	839.0	1381.4	2348.9	4139.2	11202.3
<b>All cancer</b>													
1995	175.2*	6.2*	252.2*	32.3	63.9	121.6	188.8	299.3	430.3	629.3	910.8	1038.5	1549.1
2000	163.4*	5.4*	230.5*	28.7	59.2	101.5	173.1	270.6	402.8	577.8	819.9	1090.1	1476.9
<b>Lung cancer</b>													
1995	30.9*	0.1*	47.0*	1.3	5.9	13.9	26.5	46.1	87.7	147.5	216.2	208.9	189.3
2000	30.2*	0.1*	44.4*	1.3	5.6	13.7	26.2	50.0	81.0	132.7	202.2	229.4	191.7
<b>Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)</b>													
1995	7.5*	0.1*	9.9*	0.3	0.9	3.0	5.4	12.1	18.8	28.6	42.4	51.0	84.6
2000	7.3*	0.1*	9.1*	0.5	1.3	2.7	5.8	10.7	18.0	24.8	39.5	55.1	85.7
<b>Other cancer</b>													
1995	136.8*	6.0*	195.3*	30.7	57.1	104.6	156.9	241.2	323.8	453.2	652.2	778.7	1275.2
2000	126.0*	5.2*	177.1*	26.9	52.3	85.1	141.1	209.9	303.8	420.4	578.2	805.6	1199.5
<b>Chronic obstructive pulmonary disease (COPD)</b>													
1995	26.8*	0.5*	28.6*	0.9	1.7	3.7	9.7	24.8	50.6	108.9	192.2	233.1	335.1
2000	25.7*	0.4*	24.6*	0.9	2.2	4.2	9.4	20.9	45.5	89.3	175.0	262.4	334.0
<b>Other respiratory disease</b>													
1995	64.5*	1.8*	23.0*	2.8	4.2	7.4	10.9	20.5	36.4	78.5	179.7	392.4	2117.1
2000	63.5*	1.5*	24.3*	3.3	4.8	9.4	12.5	22.3	42.4	75.5	173.8	422.9	2023.4
<b>Vascular disease</b>													
1995	249.9*	3.1*	166.1*	9.8	22.3	37.5	70.6	140.1	293.6	588.8	1187.8	2018.0	5794.0
2000	202.6*	2.8*	128.2*	10.2	20.2	35.7	58.3	108.1	224.3	440.9	863.9	1731.1	4832.5
<b>Liver cirrhosis</b>													
1995	5.2*	0.3*	9.9*	3.5	5.8	8.8	11.4	11.8	14.2	14.1	16.6	15.2	10.5
2000	6.6*	0.5*	13.0*	4.8	8.5	12.6	14.7	16.3	16.0	18.4	15.9	15.6	10.2
<b>Other medical causes</b>													
1995	94.4*	23.0*	60.3*	15.4	20.0	27.7	36.9	57.1	99.2	165.6	300.3	502.3	2045.8
2000	98.8*	21.1*	58.6*	17.0	20.1	27.4	37.3	56.8	92.8	158.6	269.6	563.0	2332.9
<b>All non-medical causes</b>													
1995	16.6*	8.3*	15.8*	13.2	14.7	14.0	15.0	15.7	16.1	21.6	36.3	56.2	184.3
2000	16.6*	7.9*	16.1*	13.4	15.1	16.5	15.0	16.8	15.3	20.8	30.9	54.1	192.5

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

<b>UNITED KINGDOM: 2000</b>
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**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	– / 10	– / 5.3	–
35–69	21 / 83	11 / 54	21 years
70+	42 / 197	40 / 259	8 years
<b>All ages</b>	<b>63 / 290</b>	<b>51 / 318</b>	<b>12 years</b>

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

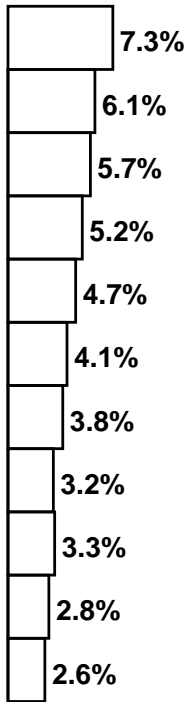
Cause	Male (by age)				Female (by age)			
	0–34	35–69	70+	All	0–34	35–69	70+	All
Lung Cancer	–/0.0	7.0/7.9	12/13	19/21	–/0.0	3.7/4.7	7.1/8.3	11/13
All Cancer	–/0.8	10/29 (36%)	18/49 (36%)	28/78	–/0.8	4.8/25 (19%)	10/47 (22%)	15/73
Vascular	–/0.6	6.0/31	9.7/82	16/114	–/0.4	2.9/14	12/109	15/123
Respiratory	–/0.4	3.0/7.2	12/39	15/46	–/0.3	2.3/5.2	12/50	15/56
All Other	–/8.2	1.7/17	2.7/27	4.4/52	–/3.8	1.3/10	5.1/52	6.4/66
<b>All Causes</b>	<b>–/10</b>	<b>21/83 (25%)</b>	<b>42/197 (21%)</b>	<b>63/290</b>	<b>–/5.3</b>	<b>11/54 (21%)</b>	<b>40/259 (15%)</b>	<b>51/318</b>

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

Cause	Male	Female	Male + Female
All Cancer	28 / 78 (36%)	15 / 73 (21%)	43 / 151 (29%)
All Causes	63 / 290 (22%)	51 / 318 (16%)	115 / 608 (19%)

1950-2000: UNITED KINGDOM

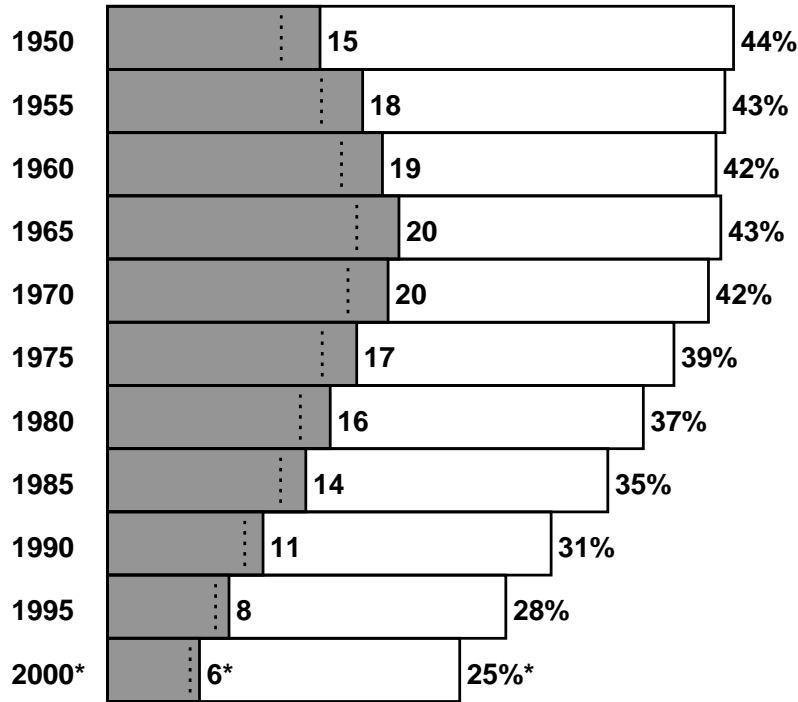
Population risk of dying at ages 0-34



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

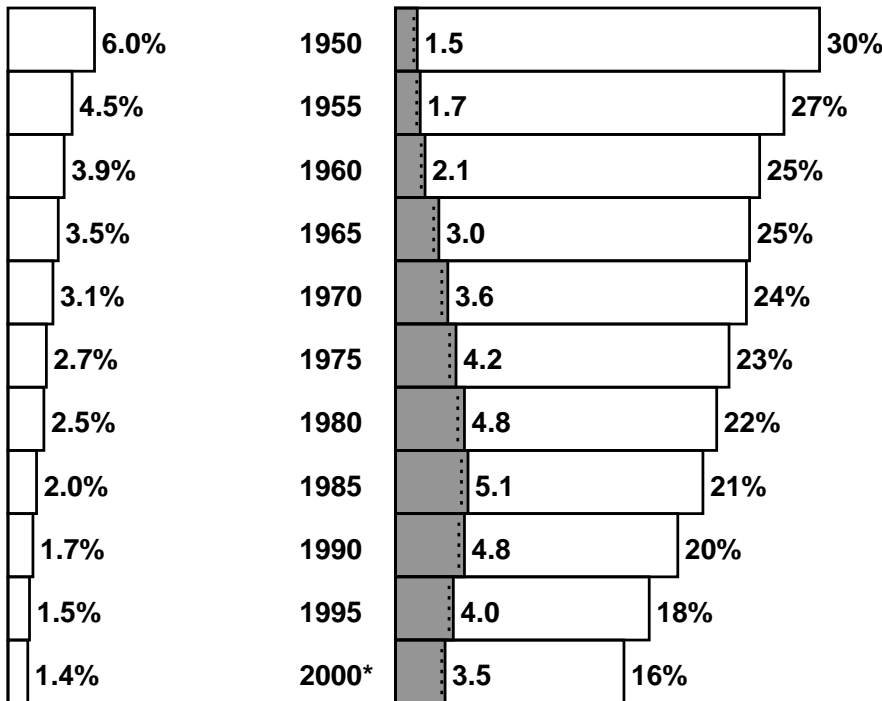
\*eg, at year 2000 male death rates, out of 100 men aged 35, 25 would die before age 70 (with 6 of these deaths attributed to smoking)

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



<b>UNITED KINGDOM: 1950-2000</b>
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**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
<b>1950</b>	-/30	47/130 <b>(36%)</b>	11/141 <b>(8%)</b>	58/301	-/24	5.1/97 <b>(5%)</b>	1.7/168 <b>(1%)</b>	6.8/289
<b>1955</b>	-/23	56/130 <b>(43%)</b>	20/153 <b>(13%)</b>	76/306	-/17	5.9/91 <b>(7%)</b>	2.4/183 <b>(1%)</b>	8.3/290
<b>1960</b>	-/23	62/135 <b>(46%)</b>	28/151 <b>(19%)</b>	91/309	-/15	7.3/88 <b>(8%)</b>	4.8/191 <b>(3%)</b>	12/295
<b>1965</b>	-/23	70/146 <b>(48%)</b>	36/155 <b>(23%)</b>	106/323	-/15	11/89 <b>(12%)</b>	6.3/201 <b>(3%)</b>	17/305
<b>1970</b>	-/20	71/151 <b>(47%)</b>	45/163 <b>(28%)</b>	116/334	-/13	14/90 <b>(15%)</b>	12/218 <b>(6%)</b>	26/321
<b>1975</b>	-/17	62/142 <b>(44%)</b>	52/176 <b>(30%)</b>	115/335	-/10	16/85 <b>(18%)</b>	15/232 <b>(6%)</b>	31/327
<b>1980</b>	-/15	54/130 <b>(41%)</b>	55/187 <b>(29%)</b>	109/332	-/9.1	17/79 <b>(21%)</b>	19/241 <b>(8%)</b>	36/329
<b>1985</b>	-/13	46/117 <b>(39%)</b>	59/202 <b>(29%)</b>	105/332	-/7.5	17/73 <b>(23%)</b>	29/259 <b>(11%)</b>	46/339
<b>1990</b>	-/13	37/107 <b>(35%)</b>	52/195 <b>(26%)</b>	88/315	-/6.9	16/68 <b>(24%)</b>	32/252 <b>(13%)</b>	49/327
<b>1995</b>	-/11	28/93 <b>(30%)</b>	48/206 <b>(24%)</b>	76/311	-/6.0	13/60 <b>(22%)</b>	39/269 <b>(15%)</b>	53/335
<b>2000</b>	-/10	21/83 <b>(25%)</b>	42/197 <b>(21%)</b>	63/290	-/5.3	11/54 <b>(21%)</b>	40/259 <b>(15%)</b>	51/318

**50-year total\* (M=millions), mid-1950 to mid-2000: 6.3/ 32M**

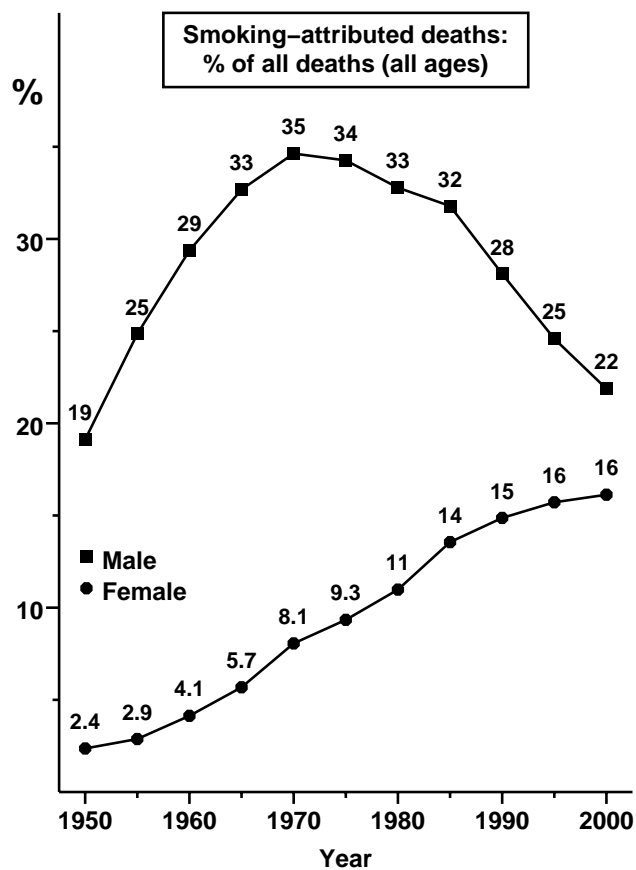
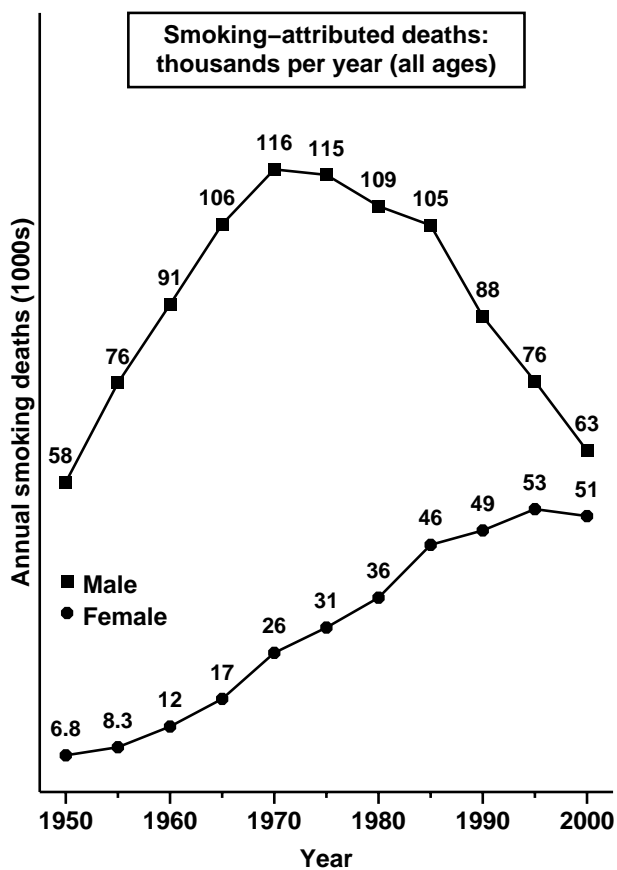
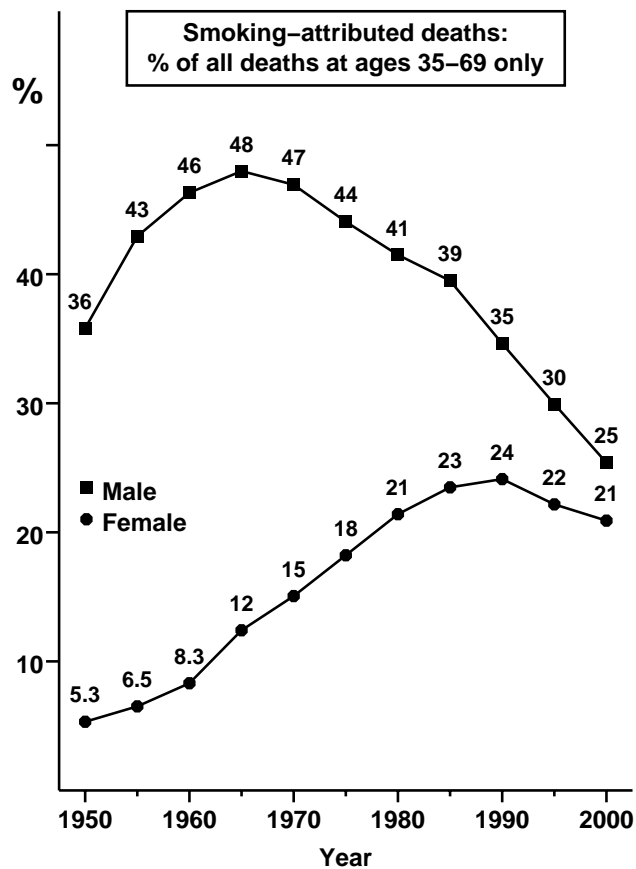
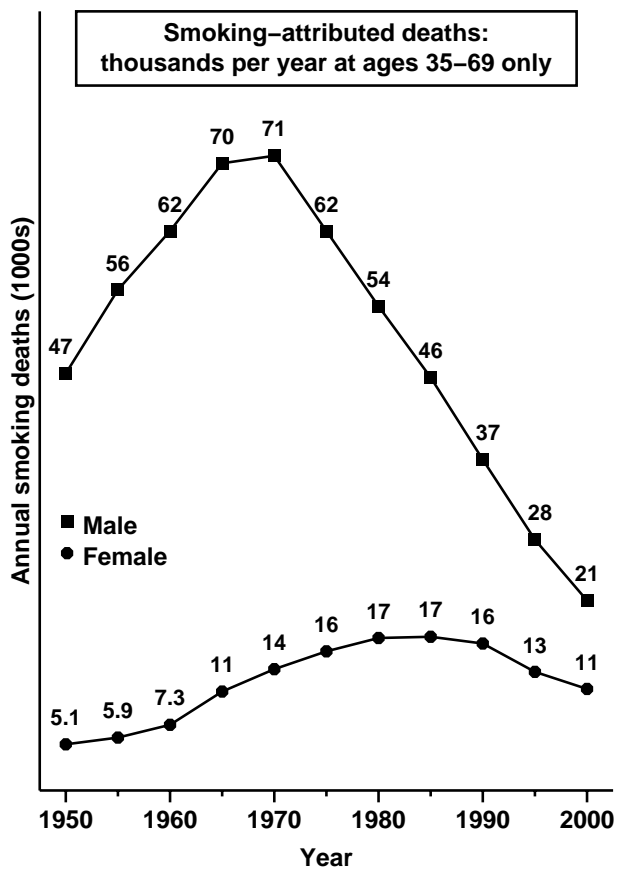
**1950-2000 by age & sex:**

-/0.9M	2.6/6.3M <b>(42%)</b>	2.2/8.9M <b>(24%)</b>	4.8/16M	-/0.6M	0.6/4.0M <b>(16%)</b>	0.9/11M <b>(8%)</b>	1.5/16M
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\*Estimated as 10 times the sum of the annual numbers for 1955, 1965, 1975, 1985 & 1995

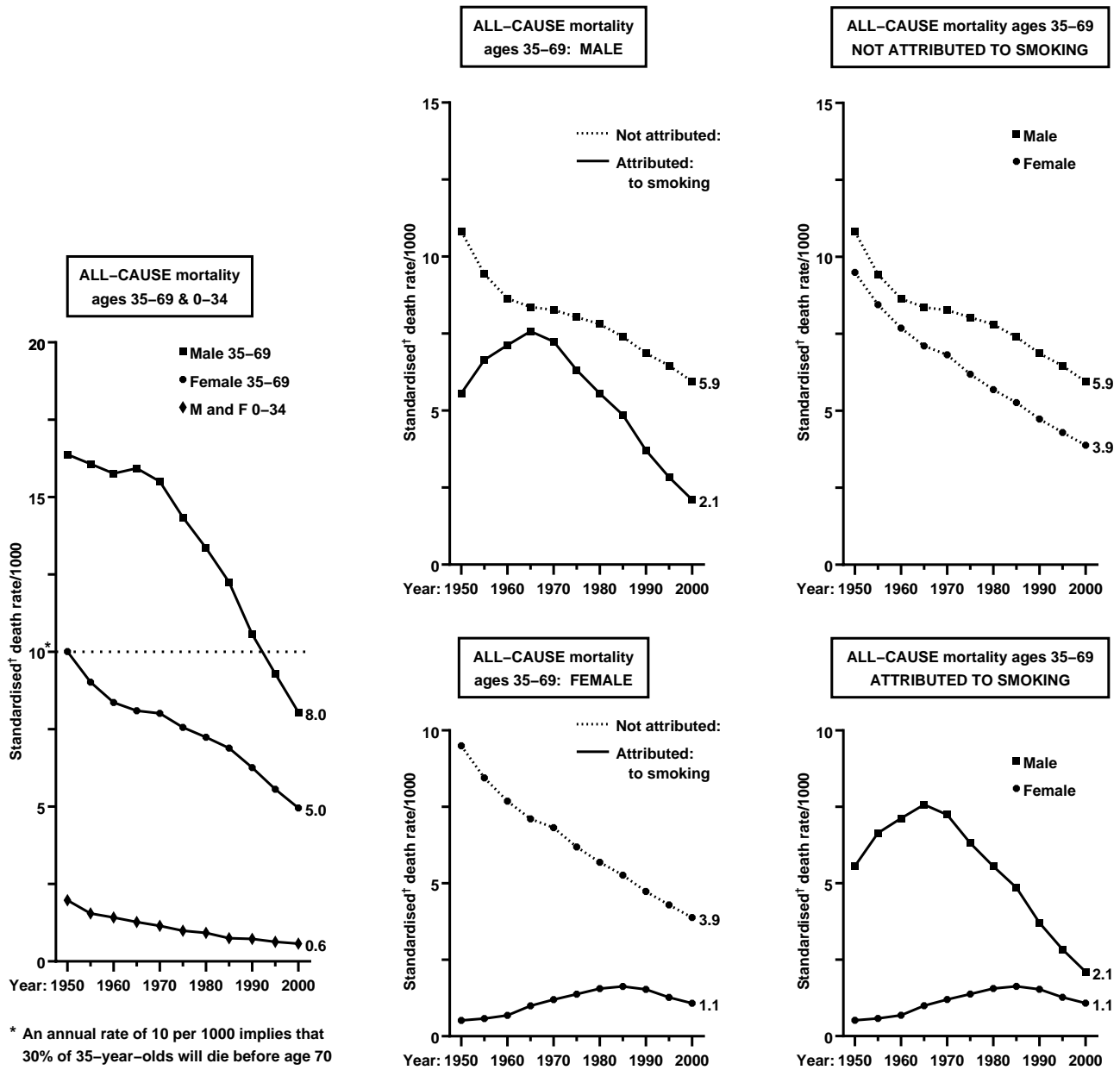


1950-2000: UNITED KINGDOM



**UNITED KINGDOM: 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

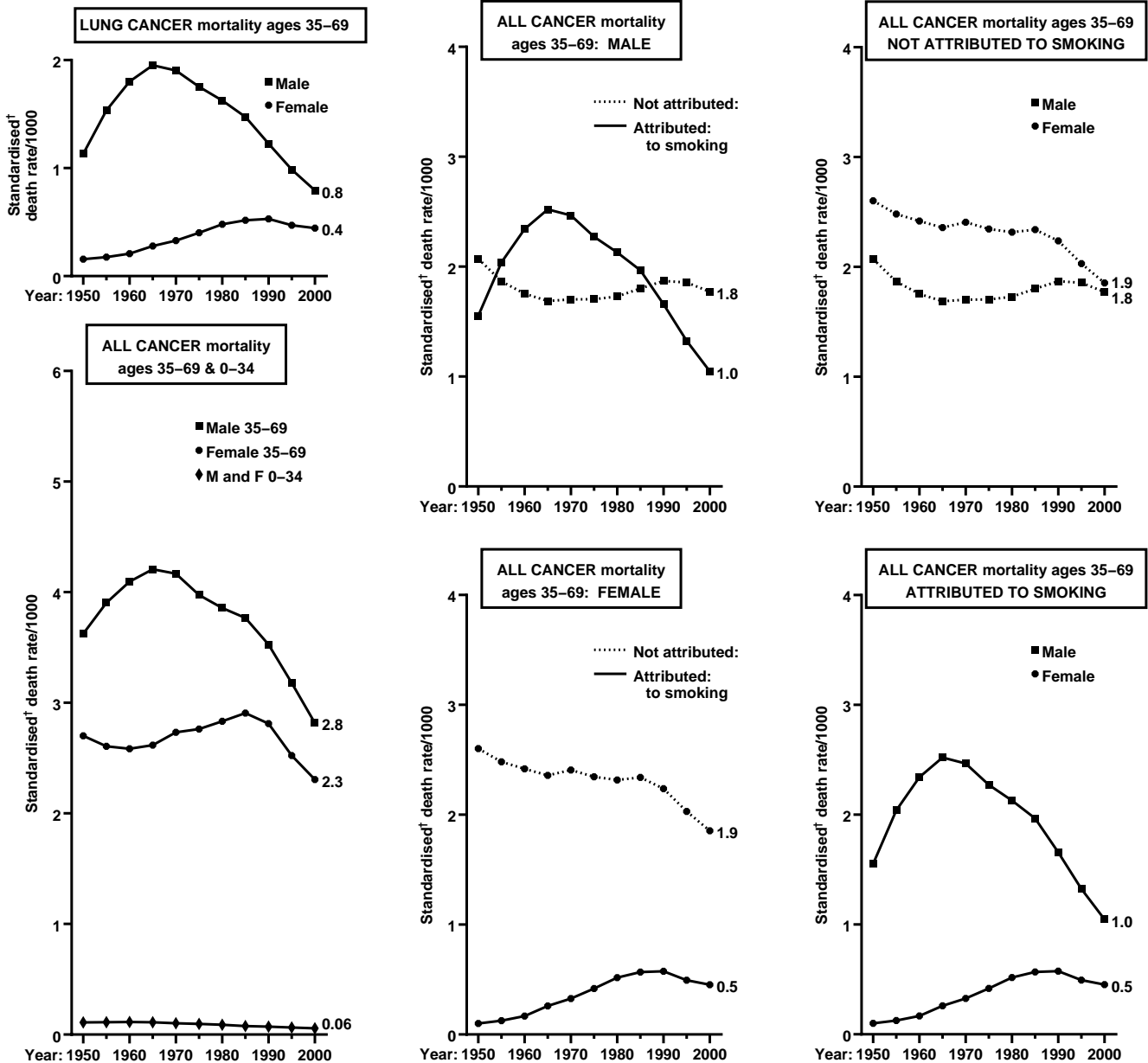
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

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	-	2.17	5.56	10.8	7.59	79.8	-	1.78	0.51	9.49	0.79	63.8		
1955	-	1.79	6.64	9.43	13.5	76.2	-	1.31	0.58	8.44	0.99	58.3		
1960	-	1.69	7.12	8.64	18.4	67.8	-	1.14	0.68	7.68	1.67	53.3		
1965	-	1.52	7.57	8.36	22.5	63.8	-	1.02	0.99	7.10	2.00	49.5		
1970	-	1.38	7.24	8.26	26.7	61.0	-	0.91	1.19	6.82	3.37	47.0		
1975	-	1.20	6.31	8.03	26.9	56.5	-	0.77	1.37	6.19	3.71	42.4		
1980	-	1.11	5.55	7.80	24.0	52.2	-	0.72	1.55	5.68	4.32	38.3		
1985	-	0.92	4.86	7.39	23.1	50.3	-	0.57	1.62	5.26	5.96	35.0		
1990	-	0.94	3.70	6.86	18.0	44.7	-	0.50	1.53	4.73	6.24	30.6		
1995	-	0.83	2.83	6.45	15.3	42.2	-	0.43	1.27	4.29	7.32	28.1		
2000	-	0.74	2.10	5.94	12.6	38.9	-	0.40	1.08	3.88	6.94	25.5		

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

1950-2000: UNITED KINGDOM

ALL CANCER mortality rates attributed and not attributed to smoking



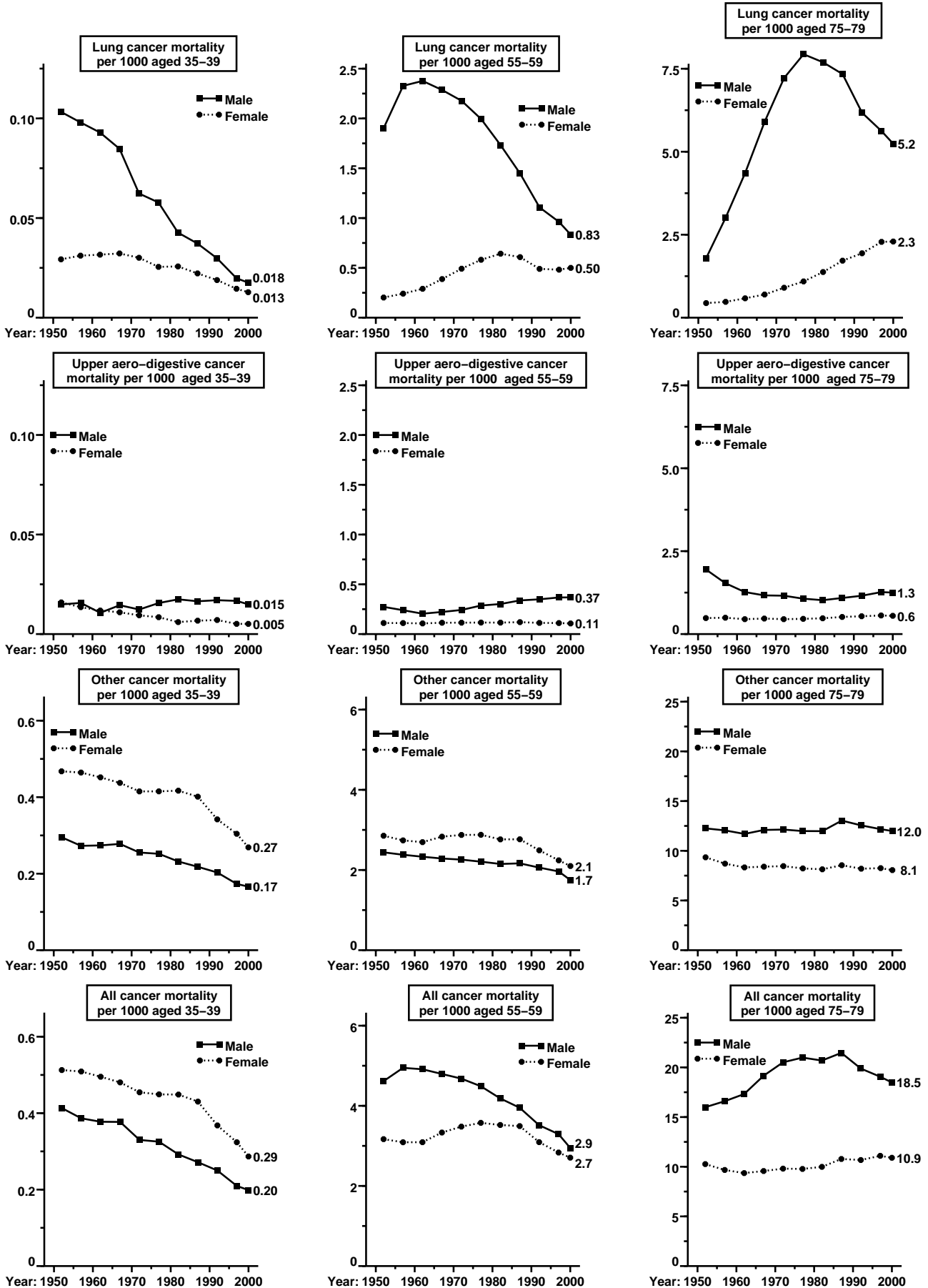
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

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	-	0.11	1.55	2.07	2.14	11.9	-	0.11	0.10	2.60	0.12	9.32		
1955	-	0.12	2.04	1.86	3.87	10.7	-	0.11	0.12	2.48	0.17	8.40		
1960	-	0.12	2.34	1.75	5.63	9.77	-	0.10	0.17	2.42	0.32	8.12		
1965	-	0.12	2.52	1.69	6.98	9.44	-	0.10	0.26	2.36	0.41	7.88		
1970	-	0.11	2.47	1.70	8.80	9.23	-	0.09	0.33	2.41	0.76	7.86		
1975	-	0.10	2.27	1.70	9.55	9.00	-	0.09	0.42	2.34	0.94	7.65		
1980	-	0.09	2.13	1.73	9.32	8.81	-	0.09	0.52	2.32	1.24	7.54		
1985	-	0.08	1.97	1.80	9.28	9.62	-	0.08	0.57	2.34	1.80	7.76		
1990	-	0.07	1.66	1.87	7.92	9.81	-	0.07	0.57	2.24	2.08	7.54		
1995	-	0.06	1.32	1.86	6.93	9.77	-	0.06	0.49	2.03	2.45	7.30		
2000	-	0.06	1.05	1.77	6.05	9.63	-	0.05	0.45	1.85	2.48	7.07		

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

**UNITED KINGDOM: 1950-2000**

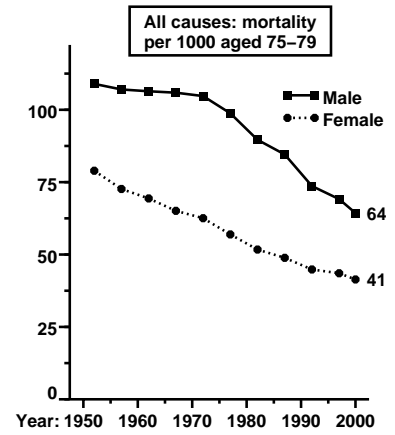
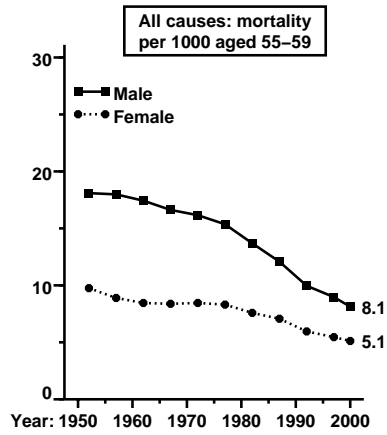
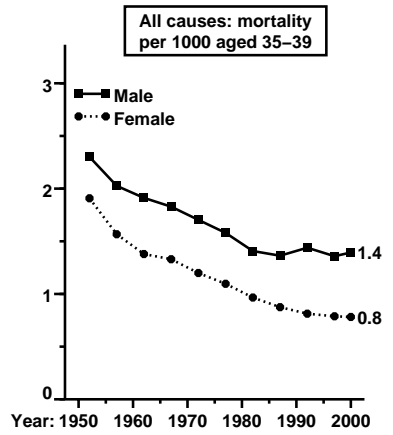
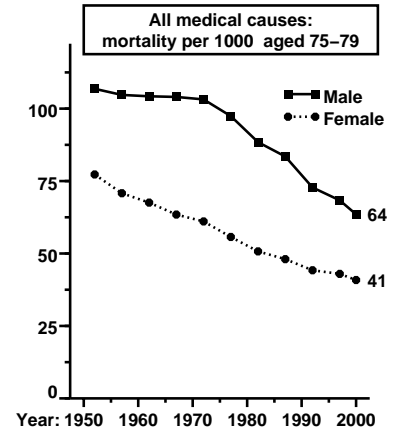
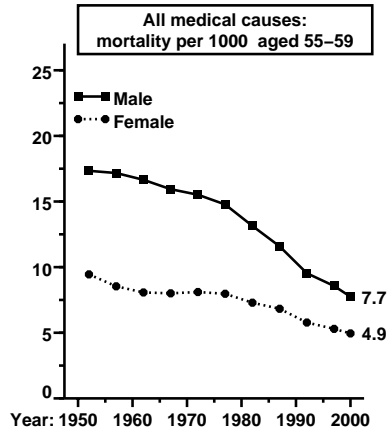
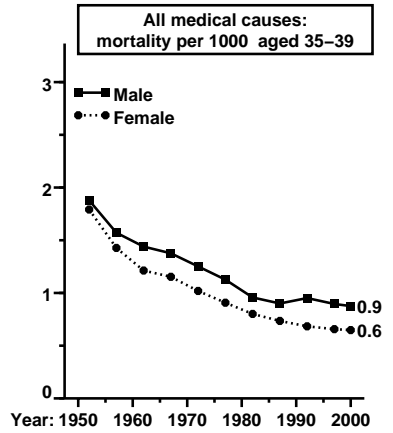
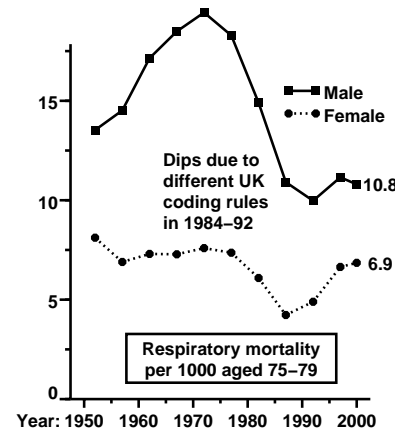
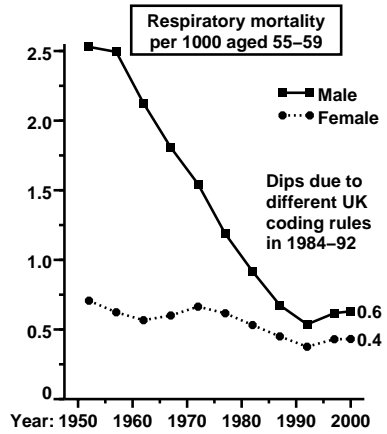
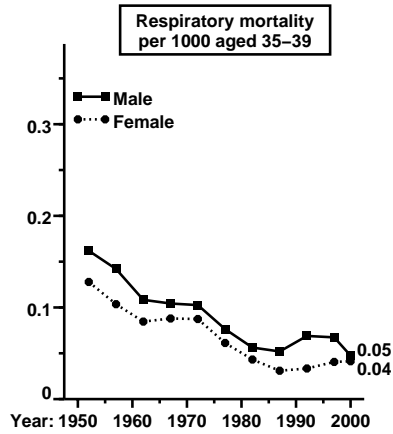
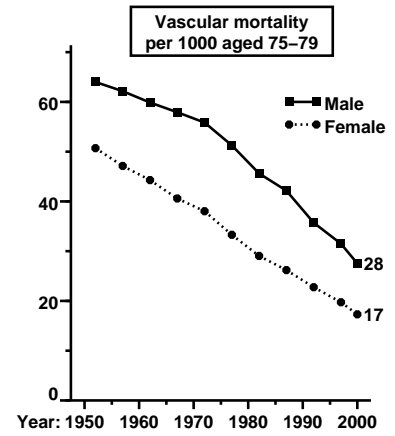
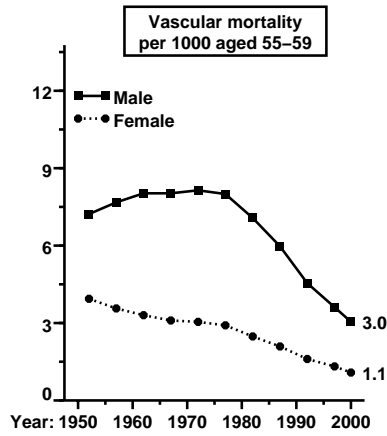
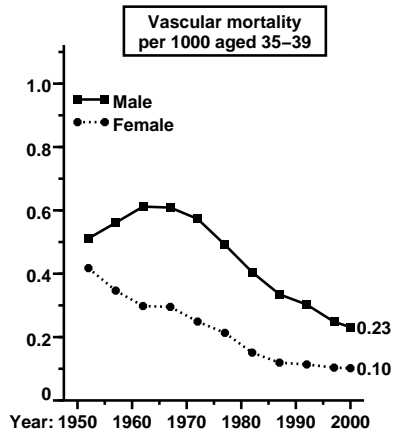
**Mortality\* trends at selected ages: 35-39, 55-59 & 75-79**



\* Annual mortality per 1000: averages of years available in 1950-54,.....,1995-99; then year 2000 separately

1950-2000: UNITED KINGDOM

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



\* Annual mortality per 1000: averages of years available in 1950-54,.....,1995-99; then year 2000 separately