

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

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EU10

**(European Union – 10 countries
that joined the EU in 2004*)**

Raw data (pages 26–27, 28–29)

Analyses (pages 30–31, 32–33, 34–35)

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*Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Slovakia, Slovenia

EU10 (European Union - 10 countries*): 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	406614	19620	195561	1291.8	110.0	1573.9	194.7	22.4	24.7	74.2	123.0	136.6	194.5
	F	371384	7956	92907	721.8	50.1	634.5	158.6	14.7	15.5	30.7	33.1	39.2	58.6
Tuberculosis	M	1865	67	1335	5.6	0.4	9.5	-	0.0	-	-	0.2	0.5	1.9
	F	612	28	251	1.3	0.2	1.6	-	-	-	-	0.1	0.4	0.5
HIV	M	119	46	73	0.3	0.3	0.4	-	-	-	-	0.1	0.6	1.1
	F	32	22	10	0.1	0.1	0.1	-	-	0.0	0.0	0.1	0.4	0.3
Other infective and parasitic	M	1060	198	522	3.4	1.3	4.1	5.9	0.4	0.3	0.3	0.4	1.0	0.9
	F	982	150	344	2.3	1.0	2.3	5.2	0.4	0.4	0.4	0.4	0.3	0.2
ALL CANCER	M	101976	1340	57036	317.5	7.2	481.1	4.5	4.2	3.8	6.6	6.7	9.7	14.9
	F	78747	1084	36477	165.1	6.1	245.8	4.1	3.0	2.9	3.5	5.3	8.3	15.9
Mouth and pharynx cancer	M	4290	20	3538	12.9	0.1	26.2	-	0.0	0.0	0.1	0.1	0.1	0.3
	F	864	5	497	1.9	0.0	3.2	-	-	-	0.1	0.0	0.0	0.0
Oesophagus cancer	M	2588	7	1888	8.0	0.0	14.9	-	-	-	-	0.0	0.1	0.2
	F	546	2	258	1.2	0.0	1.7	-	-	-	-	-	0.0	0.0
Stomach cancer	M	7854	65	4013	24.6	0.4	34.2	-	-	-	-	0.2	0.7	1.7
	F	5016	47	1781	10.0	0.3	12.1	-	-	-	0.1	0.1	0.5	1.1
Colorectal cancer	M	11643	45	5457	36.9	0.2	47.9	0.1	-	-	0.1	0.1	0.5	0.9
	F	10407	40	3688	20.7	0.2	25.8	-	-	-	0.0	0.3	0.3	0.9
Liver cancer	M	2571	26	1387	8.0	0.1	11.8	0.3	0.0	-	0.1	0.1	0.3	0.2
	F	2100	7	785	4.2	0.0	5.5	-	0.0	-	0.0	0.1	0.1	0.0
Pancreas cancer	M	4413	24	2642	13.6	0.1	21.7	-	-	-	-	0.1	0.1	0.8
	F	4234	9	1690	8.6	0.1	11.9	-	-	-	-	0.0	0.1	0.3
Larynx cancer	M	2761	2	2052	8.5	0.0	16.7	-	-	-	-	0.0	-	0.0
	F	266	-	167	0.6	-	1.1	-	-	-	-	-	-	-
Lung cancer	M	31582	38	19962	97.1	0.2	171.4	-	-	0.1	-	0.1	0.4	0.8
	F	8452	27	4727	18.3	0.1	31.7	-	-	-	0.1	0.1	0.3	0.5
Malignant melanoma	M	1008	42	611	3.1	0.2	4.7	0.1	0.0	-	0.0	0.2	0.5	0.8
	F	1021	31	539	2.2	0.2	3.5	0.1	-	0.0	0.0	0.3	0.2	0.6
Female breast cancer	F	11494	70	6570	25.3	0.4	43.1	-	-	-	-	0.1	0.3	2.5
Cervix cancer	F	3555	93	2392	8.2	0.5	14.8	-	-	-	-	0.2	1.1	2.5
Other uterine cancer	F	3049	10	1346	6.3	0.1	9.4	-	-	-	-	0.1	0.1	0.2
Ovarian cancer	F	4408	48	2638	9.8	0.3	17.6	-	0.0	0.0	0.2	0.2	0.5	0.9
Prostate cancer	M	7535	2	1910	25.0	0.0	18.2	-	-	-	0.1	-	-	-
Bladder cancer	M	3788	3	1547	12.2	0.0	14.0	-	0.0	-	-	-	0.0	0.0
	F	1130	4	316	2.2	0.0	2.2	-	-	-	-	-	-	0.2
Other and ill-defined cancer sites	M	16152	652	9095	49.9	3.5	75.0	2.9	2.5	2.0	3.4	3.3	4.6	6.0
	F	17054	411	6959	35.1	2.4	47.6	2.5	1.9	2.0	1.8	1.9	2.3	4.1
Hodgkin's disease	M	386	67	225	1.1	0.3	1.7	-	-	0.0	0.3	0.5	0.7	0.8
	F	315	53	142	0.7	0.3	0.9	0.1	-	0.1	0.2	0.5	0.6	0.5
Myeloma and non-Hodgkin lymphomas	M	2601	91	1416	8.0	0.5	11.8	0.2	0.3	0.5	0.5	0.5	0.6	0.9
	F	2447	59	1046	5.0	0.3	7.3	0.2	0.2	0.0	0.2	0.6	0.7	0.4
Leukaemia	M	2804	256	1293	8.7	1.4	10.9	1.0	1.3	1.2	2.1	1.5	1.1	1.5
	F	2389	168	936	5.0	1.0	6.4	1.3	0.8	0.7	0.9	0.8	1.2	1.2
Diabetes	M	4290	65	2052	13.4	0.4	17.2	-	0.0	0.0	-	0.2	0.8	1.4
	F	6549	41	1850	12.5	0.2	13.3	0.1	0.0	0.0	0.1	0.1	0.4	0.8
ALL VASCULAR DISEASE	M	181058	1215	71924	594.7	6.6	608.9	2.4	0.8	1.3	2.8	6.4	10.1	22.2
	F	208748	450	32332	382.5	2.6	229.7	2.4	0.4	0.7	1.4	2.1	3.9	7.1
Rheumatic heart disease and fever	M	1094	28	657	3.4	0.2	5.4	0.1	0.0	-	-	0.1	0.4	0.5
	F	1577	9	676	3.2	0.0	4.8	-	-	0.1	0.0	0.0	0.1	0.0
Hypertensive disease	M	6175	23	2788	19.9	0.1	23.8	-	0.0	-	0.0	0.1	0.2	0.4
	F	9013	5	1770	16.7	0.0	12.6	-	-	-	-	-	0.0	0.2
Ischaemic heart disease	M	79705	266	35859	258.3	1.5	301.9	-	-	-	0.1	0.8	2.2	7.1
	F	76491	53	12690	140.4	0.3	91.1	-	-	0.0	-	0.1	0.6	1.4
Pulmonary embolism and other venous	M	3472	59	1653	11.0	0.3	13.8	-	0.1	-	0.2	0.4	0.6	1.0
	F	4209	41	1187	8.1	0.2	8.2	0.1	0.0	-	0.1	0.1	0.5	0.7
Cerebrovascular disease	M	41833	264	14791	137.9	1.4	128.3	0.5	0.3	0.5	0.5	1.6	2.1	4.5
	F	57338	128	9335	105.1	0.7	65.9	0.4	0.0	0.3	0.3	0.6	1.2	2.2
Other vascular disease	M	48779	575	16176	164.3	3.1	135.6	1.8	0.3	0.8	2.0	3.6	4.6	8.6
	F	60120	214	6674	109.0	1.2	47.1	1.9	0.4	0.3	0.9	1.2	1.5	2.6
Chronic obstructive pulmonary disease	M	10948	60	3928	35.5	0.3	35.7	0.3	0.0	0.1	0.4	0.4	0.2	0.9
	F	5568	31	1505	10.7	0.2	10.7	0.1	0.0	0.0	0.1	0.2	0.3	0.4
Other respiratory disease	M	9856	446	3486	32.8	2.7	27.9	9.7	0.8	0.4	1.3	1.7	2.0	3.4
	F	9828	265	1525	18.6	1.7	10.5	6.6	0.6	0.6	0.8	0.8	1.1	1.6
Peptic ulcer	M	2178	29	1208	6.9	0.2	9.5	-	0.0	0.0	0.1	0.1	0.2	0.6
	F	1726	10	404	3.3	0.1	2.7	-	-	-	-	0.1	0.0	0.3
Liver cirrhosis	M	12091	301	10146	35.6	1.7	72.8	0.2	-	0.0	0.2	0.5	2.2	8.7
	F	4838	90	3537	11.5	0.5	22.6	0.1	-	0.1	0.1	0.2	0.7	2.6
Renal disease	M	3457	56	1368	11.4	0.3	11.4	0.5	-	0.0	0.2	0.2	0.5	0.8
	F	3795	68	1037	7.3	0.4	7.3	0.4	0.1	0.0	0.3	0.4	0.7	0.8
Pregnancy, birth	F	61	43	18	0.2	0.2	0.1	-	-	-	0.1	0.3	0.5	0.7
Congenital and perinatal causes	M	2919	2775	127	11.7	20.3	0.8	135.3	1.8	1.2	1.0	1.0	1.0	0.8
	F	2343	2203	109	9.8	17.0	0.7	113.5	1.5	1.2	1.0	0.6	0.5	0.8
Ill-defined causes	M	15784	927	8201	50.9	5.1	59.6	7.1	0.4	0.6	2.7	5.9	7.0	12.3
	F	14686	309	2182	27.8	2.0	14.3	6.5	0.4	0.4	1.3	1.0	1.9	2.2
Other medical causes	M	17083	1230	9161	53.0	7.0	68.9	11.3	2.9	3.1	4.6	5.1	7.9	13.8
	F	16579	769	5254	33.5	4.6	35.3	8.7	3.1	2.8	3.5	3.8	4.1	5.9
ALL NON-MEDICAL CAUSES	M	41930	10865	24994	119.3	56.3	166.1	17.6	10.8	13.6	54.1	94.2	92.8	110.9
	F	16290	2393	6072	35.6	13.2	37.6	11.0	5.2	6.3	17.9	17.4	15.8	18.7
Road traffic accidents	M	8792	3557	4433	24.0	18.1	29.2	3.1	4.2	4.6	21.6	35.4	29.7	28.0
	F	2650	917	1139	6.3	4.9	7.1	1.9	2.6	2.6	8.9	7.8	5.6	4.9
Fire	M	899	126	623	2.6	0.7	4.3	0.9	0.5	0.2	0.3	0.6	0.6	1.9
	F	342	37	155	0.8	0.2	1.0	0.6	0.4	0.1	0.0	0.1	0.2	0.3
Suicide	M	11922	2954	7663	33.3	15.1	49.7	-	0.1	2.4	13.5	26.9	27.6	35.2
	F	2981	472	1808	7.0	2.5	11.0	-	-	0.7	3.6	3.6	4.2	5.3
Homicide	M	1567	467	995	4.4	2.5	6.3	1.5	0.3	0.2	1.5	2.9	4.7	6.3
	F	621	169	349	1.6	1.0	2.0	1.4	0.1	0.3	0.9	1.1	1.2	1.7
POPULATION:			M=male											
(1000s; UN, 2004 revision)			F=female </											

2000: EU10 (European Union - 10 countries)

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			
297.1	508.1	793.6	1189.8	1757.8	2636.8	3834.4	5551.9	8133.1	16040.7	M	ALL CAUSES	001-999/A00-Y89
103.0	181.9	307.3	455.3	683.4	1025.0	1685.9	2856.2	5101.8	13749.7	F		
3.7	6.2	8.2	10.5	11.2	14.3	12.4	17.5	17.9	32.1	M	Tuberculosis	010-018, 137/
1.0	1.2	1.4	1.1	1.6	2.4	2.3	4.6	8.6	12.5	F		A15-A19, B90
1.1	0.6	0.5	0.3	0.2	0.1	-	-	-	-	M	HIV	279.5, 279.6/B20-B24
0.1	0.1	0.1	-	-	-	-	-	-	-	F		
0.7	1.7	2.3	3.4	4.4	7.9	8.4	12.7	13.9	22.7	M	Other infective and parasitic	Rest of 001-139/rest of A00-B99 excl A33,A34
0.4	1.1	1.1	1.6	3.0	3.8	5.1	7.9	10.8	18.7	F		
28.5	79.3	181.6	340.3	568.8	902.3	1267.1	1661.9	2053.0	2449.2	M	ALL CANCER	140-208/C00-C97
34.9	75.8	137.2	211.3	297.8	399.4	564.3	741.6	1003.2	1358.3	F		
2.2	9.4	21.8	33.8	39.7	40.8	36.1	30.5	33.2	37.0	M	Mouth and pharynx cancer	140-149/C00-C14
0.2	1.7	2.8	3.6	5.2	4.3	4.6	5.3	8.4	14.3	F		
0.6	3.2	8.4	15.9	23.4	26.6	26.4	30.6	27.9	36.3	M	Oesophagus cancer	150/C15
0.1	0.5	1.3	1.5	2.5	3.0	3.2	4.4	6.4	11.2	F		
2.3	6.0	11.4	22.4	38.5	63.1	95.5	138.6	184.5	214.5	M	Stomach cancer	151/C16
1.6	4.2	6.2	8.3	11.5	19.1	34.1	52.4	73.0	118.4	F		
2.1	5.2	12.6	26.7	53.2	88.4	146.8	207.8	300.2	389.1	M	Colorectal cancer	153, 154/C18-C21
2.2	4.8	8.8	16.9	30.4	47.0	70.2	105.2	158.0	248.8	F		
0.6	2.2	3.7	8.0	13.1	23.4	31.9	42.9	59.8	60.1	M	Liver cancer	155.0/C22 excl C221
0.5	0.9	2.2	4.0	6.1	9.7	14.9	23.3	31.4	43.9	F		
1.7	4.6	9.6	17.4	27.3	39.8	51.8	70.2	84.3	86.9	M	Pancreas cancer	157/C25
0.5	1.5	4.2	7.8	15.2	21.8	32.0	45.3	63.6	82.0	F		
0.6	3.2	8.3	15.2	23.1	31.4	34.8	32.4	32.2	28.9	M	Larynx cancer	161/C32
0.1	0.5	0.6	1.4	1.9	1.5	1.7	2.5	1.9	2.9	F		
4.8	19.8	55.4	115.0	204.3	337.8	462.9	543.0	533.5	435.4	M	Lung cancer	162/C33, C34
3.0	8.0	19.5	30.9	40.5	51.8	68.6	80.4	93.1	97.3	F		
1.4	1.8	3.2	3.8	5.7	7.4	9.7	14.2	14.2	22.1	M	Malignant melanoma	172/C43
1.1	2.2	2.4	3.8	4.0	4.7	6.0	8.3	10.2	15.4	F		
7.2	15.7	31.7	45.5	57.7	64.5	79.4	85.8	118.0	162.9	F	Female breast cancer	174/C50
6.3	11.6	15.4	15.5	15.5	18.8	20.8	23.3	26.3	28.8	F	Cervix cancer	180/C53
0.6	1.9	3.3	5.9	11.9	16.2	26.1	34.1	44.1	46.9	F	Other uterine cancer	179, 182/C54, C55
2.4	5.3	10.8	17.4	23.1	29.1	35.2	39.0	41.2	45.4	F	Ovarian cancer	183/C56, C570-C574
0.1	0.3	1.1	4.2	15.0	33.9	72.8	144.3	265.9	474.7	M	Prostate cancer	185/C61
0.3	0.9	2.6	6.1	13.2	28.5	46.3	72.7	105.8	154.0	M	Bladder cancer	188/C67
7.1	0.3	0.9	1.3	2.5	3.8	6.7	10.8	19.2	33.2	F		
0.8	16.5	33.7	57.1	86.9	135.7	187.0	246.1	295.7	364.0	M	Other and ill-defined cancer sites	Rest of 140-199/rest of C00-C80, C97
6.4	12.9	21.4	37.3	53.9	79.9	121.3	168.5	237.7	326.2	F		
0.8	1.0	1.2	1.3	2.0	2.6	2.8	3.8	4.6	4.5	M	Hodgkin's disease	201/C81
0.2	0.3	0.6	1.0	0.9	1.5	1.9	2.6	3.1	3.1	F		
1.3	2.5	4.5	8.3	12.6	23.6	29.9	41.4	54.3	58.0	M	Myeloma and non-Hodgkin lymphomas	200, 202-203/C82-C90, C96
1.1	1.4	2.4	5.0	7.8	13.3	20.0	28.5	36.5	33.2	F		
1.9	2.7	4.3	5.2	10.9	19.2	32.4	43.5	56.8	83.9	M	Leukaemia	204-208/C91-C95
1.3	2.3	2.7	4.1	7.2	9.6	17.6	21.9	31.1	44.6	F		
1.9	3.7	7.1	11.3	18.3	30.8	47.2	76.6	106.7	130.0	M	Diabetes	250/E10-E14
1.2	1.4	2.5	5.6	12.5	24.1	46.1	75.5	114.0	165.8	F		
50.9	119.2	228.0	397.4	647.5	1072.6	1746.8	2770.1	4443.3	10074.1	M	ALL VASCULAR DISEASE	390-459/I00-I99
16.6	34.4	65.4	116.3	208.3	391.2	775.7	1565.4	3136.7	9604.5	F		
0.7	1.5	2.0	4.2	6.6	8.8	14.1	16.8	18.6	21.2	M	Rheumatic heart disease and fever	390-398/I00-I09
0.2	0.7	1.3	2.7	6.1	9.4	13.0	17.9	23.4	24.6	F		
1.5	3.6	8.5	15.2	26.0	44.5	67.6	94.5	153.0	274.2	M	Hypertensive disease	401-405/I10-I15
0.4	1.4	2.9	7.4	12.3	21.8	42.2	76.2	148.9	353.6	F		
21.4	58.9	116.2	209.3	340.9	537.2	829.6	1236.7	1823.7	3754.8	M	Ischaemic heart disease	410-414/I20-I25
4.7	10.5	22.0	39.8	79.9	162.6	318.0	618.8	1165.3	3366.5	F		
1.8	3.2	5.6	9.5	14.2	22.9	39.5	54.2	83.5	127.4	M	Pulmonary embolism and other venous	415.1, 451-453/I26, I80-I82
1.1	1.7	3.5	5.0	9.1	13.6	23.7	40.5	69.9	121.6	F		
9.0	19.7	41.0	71.1	126.3	227.9	403.1	684.2	1157.7	2426.1	M	Cerebrovascular disease	430-438/I60-I69
5.4	11.1	20.5	36.8	59.3	107.2	221.3	461.4	945.4	2450.6	F		
16.5	32.3	54.8	88.1	133.4	231.4	392.9	683.7	1206.9	3470.4	M	Other vascular disease	Rest of 390-459/rest of I00-I99
4.8	9.0	15.2	24.6	41.6	76.6	157.5	350.6	783.8	3287.6	F		
1.1	3.1	6.4	13.8	32.8	69.5	122.9	210.8	325.0	519.7	M	Chronic obstructive pulmonary disease	490-496/J40-J47, J67
1.1	1.1	3.1	6.2	11.6	16.9	34.7	52.4	86.3	177.8	F		
5.8	10.9	15.0	18.6	30.1	44.1	71.2	126.3	232.1	629.3	M	Other respiratory disease	Rest of 460-519/rest of J00-J98
2.3	3.4	4.6	6.4	10.9	16.2	29.4	54.3	127.9	483.1	F		
1.1	3.8	5.7	8.6	10.3	15.9	20.9	28.0	40.6	76.2	M	Peptic ulcer	531-533/K25-K27
0.4	0.8	1.3	2.6	2.4	3.6	8.0	14.2	26.7	63.8	F		
21.8	46.0	64.2	77.8	101.0	101.8	97.1	80.7	75.3	54.2	M	Liver cirrhosis	571/K70, K74
6.1	12.4	19.5	23.8	33.3	33.3	30.1	30.2	29.8	26.7	F		
1.7	2.7	5.0	7.8	11.8	18.7	31.8	49.4	82.6	197.7	M	Renal disease	580-590/N00-N19
1.0	1.4	2.6	4.3	6.5	11.8	23.2	34.6	61.7	114.4	F		
0.6	0.1	0.0	-	-	-	-	-	-	-	F	Pregnancy, birth	630-676/A34,000-099
0.7	1.0	1.0	0.8	0.6	0.7	0.9	0.6	1.0	0.6	M	Congenital and perinatal causes	740-779/A33, P00-P96, Q00-Q99
0.7	0.6	0.8	0.6	0.8	0.4	0.7	0.8	0.6	0.8	F		
21.9	36.1	49.5	61.0	64.6	84.4	99.7	128.5	199.6	827.2	M	Ill-defined causes	780-799/R00-R99
3.7	6.8	10.2	12.1	15.3	22.4	29.9	59.6	124.8	849.1	F		
22.8	37.4	47.2	62.0	78.3	99.0	135.5	200.5	296.7	528.0	M	Other medical causes	Rest of 001-799/rest of A00-R99
7.6	12.1	20.7	27.9	38.9	54.7	85.1	140.5	233.1	452.2	F		
133.4	156.5	171.8	176.2	177.9	174.7	172.3	188.2	245.2	499.5	M	ALL NON-MEDICAL CAUSES	E800-E999/V01-Y89
25.2	29.2	36.8	35.6	40.3	45.0	51.3	74.5	137.6	421.8	F		
28.8	27.3	29.4	31.0	29.0	29.1	30.1	30.9	37.6	44.6	M	Road traffic accidents	E810-E819, E826-E829/part of V01-V99, Y850
5.5	5.6	6.2	6.3	7.5	9.0	9.4	11.3	16.1	16.8	F		
2.1	3.6	4.2	4.8	4.7	5.0	5.5	5.5	6.5	9.8	M	Fire	E890-E899/X00-X09
0.6	0.5	0.8	0.9	1.3	1.4	1.4	1.8	3.3	6.7	F		
42.2	52.2	56.2	54.2	55.1	44.7	43.3	48.4	56.5	83.7	M	Suicide	E950-E959/X60-X84
8.5	9.2	13.7	9.6	11.1	12.3	12.3	14.2	15.6	22.5	F		
6.7	7.0	7.5	6.6	6.7	4.7	5.1	4.0	3.6	7.9	M	Homicide	E960-E969/X85-X99, Y00-Y09
2.4	2.4	2.2	2.4	1.6	1.9	1.5	1.6	2.1	4.3	F		
2536	2865	2855	2371	1691	1536	1366	1079	689	471	M	POPULATION	
2507	2888	2952	2544	1942	1923	1864	1713	1320	1122	F	(1000s; UN, 2004 revision)	

EU10 (European Union - 10 countries): 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	26054	1629	58	41	1530	73	618	1695	436	8163	13440
35-69	Sm.	87308	34106	21013	5829	7264	3816	1564	35988	-	11834	-
	Total	221818	59523	21991	7580	29952	4468	3737	87528	10513	26487	29562
		(39%)	(57%)	(96%)	(77%)	(24%)	(85%)	(42%)	(41%)		(45%)	
70+	Sm.	37494	13842	9010	1262	3570	4894	628	15635	-	2495	-
	Total	189539	36785	9794	2022	24969	6549	4854	114482	1675	18932	6262
		(20%)	(38%)	(92%)	(62%)	(14%)	(75%)	(13%)	(14%)		(13%)	
Any age	Sm.	124802	47948	30023	7091	10834	8710	2192	51623	-	14329	-
	Total	437411	97937	31843	9643	56451	11090	9209	203705	12624	53582	49264
		(29%)	(49%)	(94%)	(74%)	(19%)	(79%)	(24%)	(25%)		(27%)	
2000												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	19620	1340	38	29	1273	60	446	1215	301	5393	10865
35-69	Sm.	72921	31060	18970	5561	6529	3304	1338	27491	-	9728	-
	Total	195561	57036	19962	7478	29596	3928	3486	71924	10146	24047	24994
		(37%)	(54%)	(95%)	(74%)	(22%)	(84%)	(38%)	(38%)		(40%)	
70+	Sm.	40182	16351	10668	1350	4333	5246	792	15030	-	2763	-
	Total	191433	43600	11582	2132	29886	6960	5924	107919	1644	19315	6071
		(21%)	(38%)	(92%)	(63%)	(14%)	(75%)	(13%)	(14%)		(14%)	
Any age	Sm.	113103	47411	29638	6911	10862	8550	2130	42521	-	12491	-
	Total	406614	101976	31582	9639	60755	10948	9856	181058	12091	48755	41930
		(28%)	(46%)	(94%)	(72%)	(18%)	(78%)	(22%)	(23%)		(26%)	

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	36102	19179	14954	2936	2962	2500	1833	1725	1620	1377	984	450	536
2000	35859	18401	15220	2536	2865	2855	2371	1691	1536	1366	1079	689	471
NUMBER OF DEATHS (Source: WHO)													
All causes													
1995	437411	26054	221818	11682	18519	23277	26549	35701	48070	58020	60034	39576	89929
2000	406614	19620	195561	7534	14555	22652	28215	29731	40503	52371	59880	56027	75526
Lung cancer													
1995	31843	58	21991	211	753	1523	2541	4292	5964	6707	5315	2270	2209
2000	31582	38	19962	121	567	1580	2726	3456	5189	6323	5857	3675	2050
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	1446.6*	142.4*	1807.5*	397.8	625.1	931.0	1448.3	2069.7	2967.6	4212.7	6100.6	8802.5	16788.1
2000	1291.8*	110.0*	1573.9*	297.1	508.1	793.6	1189.8	1757.8	2636.8	3834.4	5551.9	8133.1	16040.7
All cancer													
1995	322.4*	8.6*	509.3*	36.4	92.7	195.9	383.4	622.5	935.3	1299.1	1645.6	1924.4	2228.8
2000	317.5*	7.2*	481.1*	28.5	79.3	181.6	340.3	568.8	902.3	1267.1	1661.9	2053.0	2449.2
Lung cancer													
1995	103.8*	0.3*	190.9*	7.2	25.4	60.9	138.6	248.8	368.2	487.0	540.1	504.9	412.4
2000	97.1*	0.2*	171.4*	4.8	19.8	55.4	115.0	204.3	337.8	462.9	543.0	533.5	435.4
Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)													
1995	31.3*	0.2*	61.0*	4.9	18.4	40.8	73.8	86.0	98.9	104.0	98.2	105.6	108.5
2000	29.4*	0.2*	57.8*	3.4	15.7	38.5	64.9	86.1	98.9	97.3	93.5	93.3	102.2
Other cancer													
1995	187.4*	8.1*	257.5*	24.3	48.9	94.2	171.0	287.7	468.3	708.1	1007.3	1313.8	1708.0
2000	191.1*	6.9*	251.9*	20.3	43.8	87.8	160.5	278.3	465.6	706.9	1025.4	1426.2	1911.7
Chronic obstructive pulmonary disease (COPD)													
1995	37.9*	0.4*	40.5*	1.6	3.4	7.8	17.9	37.3	77.1	138.4	222.0	320.1	546.0
2000	35.5*	0.3*	35.7*	1.1	3.1	6.4	13.8	32.8	69.5	122.9	210.8	325.0	519.7
Other respiratory disease													
1995	31.1*	3.5*	30.1*	7.0	12.8	16.7	24.7	31.8	45.3	72.5	122.8	201.1	511.9
2000	32.8*	2.7*	27.9*	5.8	10.9	15.0	18.6	30.1	44.1	71.2	126.3	232.1	629.3
Vascular disease													
1995	696.5*	9.3*	748.2*	78.8	161.0	287.8	505.8	819.6	1331.0	2053.2	3324.2	5198.2	10902.0
2000	594.7*	6.6*	608.9*	50.9	119.2	228.0	397.4	647.5	1072.6	1746.8	2770.1	4443.3	10074.1
Liver cirrhosis													
1995	39.1*	2.4*	77.6*	28.4	49.0	68.7	95.6	100.3	103.1	98.3	92.7	85.9	70.4
2000	35.6*	1.7*	72.8*	21.8	46.0	64.2	77.8	101.0	101.8	97.1	80.7	75.3	54.2
Other medical causes													
1995	175.3*	47.3*	201.2*	77.9	114.5	150.7	187.2	235.8	286.0	356.4	484.6	802.3	1970.6
2000	156.4*	35.2*	181.3*	55.6	93.0	126.6	165.7	199.7	271.8	357.0	513.8	759.1	1814.6
All non-medical causes													
1995	144.2*	71.0*	200.5*	167.6	191.8	203.4	233.6	222.4	189.7	194.7	208.7	270.7	558.4
2000	119.3*	56.3*	166.1*	133.4	156.5	171.8	176.2	177.9	174.7	172.3	188.2	245.2	499.5

1995, 2000: EU10 (European Union - 10 countries)

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	11239	1366	33	13	1320	57	437	657	133	5606	2983
35-69	Sm.	11724	3794	2869	316	609	794	175	5269	-	1692	-
	Total	106904	37158	4181	844	32133	1491	1546	42486	3915	13202	7106
		(11%)	(10%)	(69%)	(37%)	(2%)	(53%)	(11%)	(12%)		(13%)	
70+	Sm.	11487	2440	1809	210	421	1742	184	6015	-	1106	-
	Total	274960	35914	2994	766	32154	3826	6273	184103	1246	34024	9574
		(4%)	(7%)	(60%)	(27%)	(1%)	(46%)	(3%)	(3%)		(3%)	
Any age	Sm.	23211	6234	4678	526	1030	2536	359	11284	-	2798	-
	Total	393103	74438	7208	1623	65607	5374	8256	227246	5294	52832	19663
		(6%)	(8%)	(65%)	(32%)	(2%)	(47%)	(4%)	(5%)		(5%)	
2000												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	7956	1084	27	7	1050	31	265	450	90	3643	2393
35-69	Sm.	11810	4472	3393	398	681	857	201	4547	-	1733	-
	Total	92907	36477	4727	922	30828	1505	1525	32332	3537	11459	6072
		(13%)	(12%)	(72%)	(43%)	(2%)	(57%)	(13%)	(14%)		(15%)	
70+	Sm.	13156	3098	2316	231	551	1919	275	6604	-	1260	-
	Total	270521	41186	3698	747	36741	4032	8038	175966	1211	32263	7825
		(5%)	(8%)	(63%)	(31%)	(1%)	(48%)	(3%)	(4%)		(4%)	
Any age	Sm.	24966	7570	5709	629	1232	2776	476	11151	-	2993	-
	Total	371384	78747	8452	1676	68619	5568	9828	208748	4838	47365	16290
		(7%)	(10%)	(68%)	(38%)	(2%)	(50%)	(5%)	(5%)		(6%)	

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	38581	18417	16460	2918	2996	2595	2002	2011	2003	1935	1629	825	1251
2000	38431	17654	16622	2507	2888	2952	2544	1942	1923	1864	1713	1320	1122
NUMBER OF DEATHS (Source: WHO)													
All causes													
1995	393103	11239	106904	3840	6556	8881	10341	15430	24181	37675	53498	46091	175371
2000	371384	7956	92907	2582	5254	9072	11586	13270	19714	31429	48939	67346	154236
Lung cancer													
1995	7208	33	4181	84	247	431	526	642	1028	1223	1244	671	1079
2000	8452	27	4727	74	230	577	785	786	997	1278	1378	1229	1091
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	794.0*	65.5*	732.9*	131.6	218.9	342.2	516.5	767.3	1207.1	1946.9	3283.8	5589.2	14024.1
2000	721.8*	50.1*	634.5*	103.0	181.9	307.3	455.3	683.4	1025.0	1685.9	2856.2	5101.8	13749.7
All cancer													
1995	166.1*	7.6*	253.0*	42.5	83.1	142.5	215.1	289.1	421.6	577.1	761.3	961.4	1246.2
2000	165.1*	6.1*	245.8*	34.9	75.8	137.2	211.3	297.8	399.4	564.3	741.6	1003.2	1358.3
Lung cancer													
1995	16.5*	0.2*	28.6*	2.9	8.2	16.6	26.3	31.9	51.3	63.2	76.4	81.4	86.3
2000	18.3*	0.1*	31.7*	3.0	8.0	19.5	30.9	40.5	51.8	68.6	80.4	93.1	97.3
Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)													
1995	3.6*	0.1*	5.7*	0.9	2.2	3.7	5.7	6.9	9.3	11.0	13.3	19.2	31.3
2000	3.7*	0.0*	6.0*	0.4	2.7	4.7	6.6	9.5	8.7	9.5	12.1	16.7	28.3
Other cancer													
1995	145.9*	7.4*	218.7*	38.7	72.6	122.2	183.0	250.2	360.9	502.8	671.6	860.9	1128.7
2000	143.1*	6.0*	208.1*	31.6	65.2	113.0	173.9	247.8	338.8	486.2	649.1	893.3	1232.7
Chronic obstructive pulmonary disease (COPD)													
1995	10.7*	0.3*	10.5*	1.1	1.4	3.2	5.7	10.5	20.0	31.3	55.1	82.7	179.6
2000	10.7*	0.2*	10.7*	1.1	1.1	3.1	6.2	11.6	16.9	34.7	52.4	86.3	177.8
Other respiratory disease													
1995	16.3*	2.6*	10.4*	3.1	4.5	5.0	7.1	10.1	15.4	27.7	58.3	113.3	351.1
2000	18.6*	1.7*	10.5*	2.3	3.4	4.6	6.4	10.9	16.2	29.4	54.3	127.9	483.1
Vascular disease													
1995	432.2*	3.7*	299.4*	22.7	44.4	88.0	150.5	276.5	515.8	997.6	1931.4	3622.4	9817.3
2000	382.5*	2.6*	229.7*	16.6	34.4	65.4	116.3	208.3	391.2	775.7	1565.4	3136.7	9604.5
Liver cirrhosis													
1995	13.2*	0.8*	25.6*	8.7	14.6	20.3	32.5	33.2	35.6	34.3	34.4	33.6	32.7
2000	11.5*	0.5*	22.6*	6.1	12.4	19.5	23.8	33.3	33.3	30.1	30.2	29.8	26.7
Other medical causes													
1995	111.9*	34.3*	89.4*	22.6	33.5	44.2	60.6	99.3	147.6	218.3	344.7	602.4	1874.5
2000	98.0*	25.7*	77.6*	16.8	25.6	40.6	55.8	81.1	123.0	200.5	337.7	580.4	1677.3
All non-medical causes													
1995	43.6*	16.3*	44.6*	31.1	37.3	38.9	44.9	48.6	51.2	60.6	98.7	173.4	522.7
2000	35.6*	13.2*	37.6*	25.2	29.2	36.8	35.6	40.3	45.0	51.3	74.5	137.6	421.8

EU10 (European Union - 10 countries): 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	– / 20	– / 8.0	–
35–69	73 / 196	12 / 93	21 years
70+	40 / 191	13 / 271	8 years
All ages	113 / 407	25 / 371	16 years

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

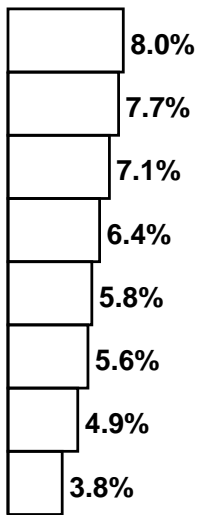
Cause	Male (by age)				Female (by age)			
	0–34	35–69	70+	All	0–34	35–69	70+	All
Lung Cancer	–/0.0	19/20	11/12	30/32	–/0.0	3.4/4.7	2.3/3.7	5.7/8.5
All Cancer	–/1.3	31/57 (54%)	16/44 (38%)	47/102	–/1.1	4.5/36 (12%)	3.1/41 (8%)	7.6/79
Vascular	–/1.2	27/72	15/108	43/181	–/0.4	4.5/32	6.6/176	11/209
Respiratory	–/0.5	4.6/7.4	6.0/13	11/21	–/0.3	1.1/3.0	2.2/12	3.3/15
All Other	–/17	9.7/59	2.8/27	12/103	–/6.1	1.7/21	1.3/41	3.0/68
All Causes	–/20	73/196 (37%)	40/191 (21%)	113/407	–/8.0	12/93 (13%)	13/271 (5%)	25/371

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

Cause	Male	Female	Male + Female
All Cancer	47 / 102 (46%)	7.6 / 79 (10%)	55 / 181 (30%)
All Causes	113 / 407 (28%)	25 / 371 (7%)	138 / 778 (18%)

1965-2000: EU10 (European Union - 10 countries)

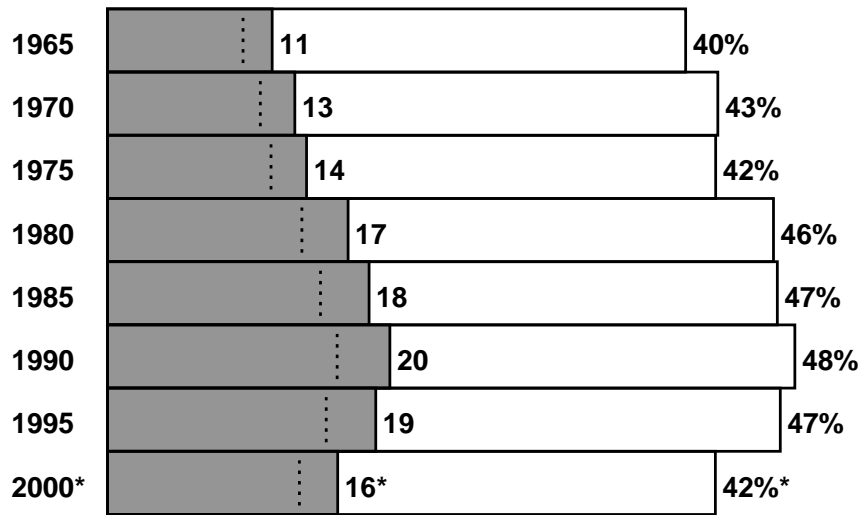
Population risk of dying at ages 0-34



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

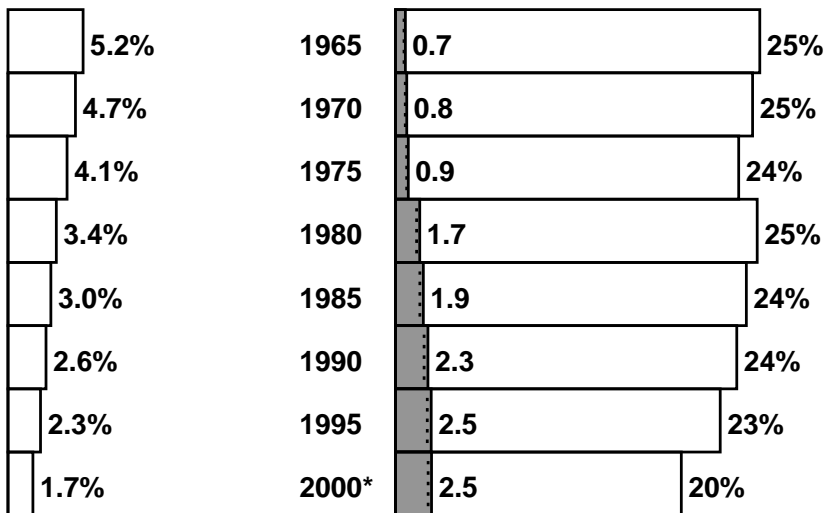
*eg, at year 2000 male death rates, out of 100 men aged 35, 42 would die before age 70 (with 16 of these deaths attributed to smoking)

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



EU10 (European Union - 10 countries): 1960-2000
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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
1950	...	...	...	...	...	...	...	...
1955	...	...	...	...	...	...	...	...
1960	...	...	...	...	...	...	...	...
1965	-/44	38/134 (28%)	14/114 (13%)	52/292	-/28	2.4/94 (3%)	2.8/156 (2%)	5.2/278
1970	-/41	48/157 (30%)	23/139 (17%)	71/337	-/24	3.1/99 (3%)	3.5/189 (2%)	6.6/311
1975	-/41	52/161 (32%)	32/163 (19%)	84/365	-/23	3.6/97 (4%)	5.8/215 (3%)	9.4/335
1980	-/40	66/179 (37%)	39/199 (20%)	106/418	-/20	6.8/101 (7%)	7.3/255 (3%)	14/377
1985	-/36	76/188 (40%)	40/209 (19%)	116/433	-/18	7.9/99 (8%)	8.6/280 (3%)	16/397
1990	-/32	91/220 (41%)	34/190 (18%)	124/442	-/14	11/111 (10%)	10/268 (4%)	21/393
1995	-/26	87/222 (39%)	37/190 (20%)	125/437	-/11	12/107 (11%)	11/275 (4%)	23/393
2000	-/20	73/196 (37%)	40/191 (21%)	113/407	-/8.0	12/93 (13%)	13/271 (5%)	25/371

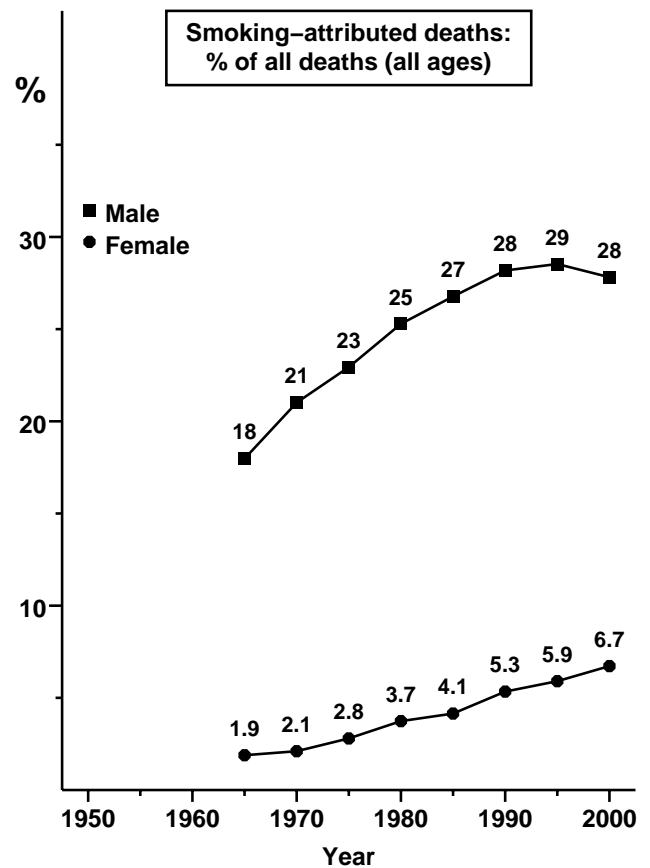
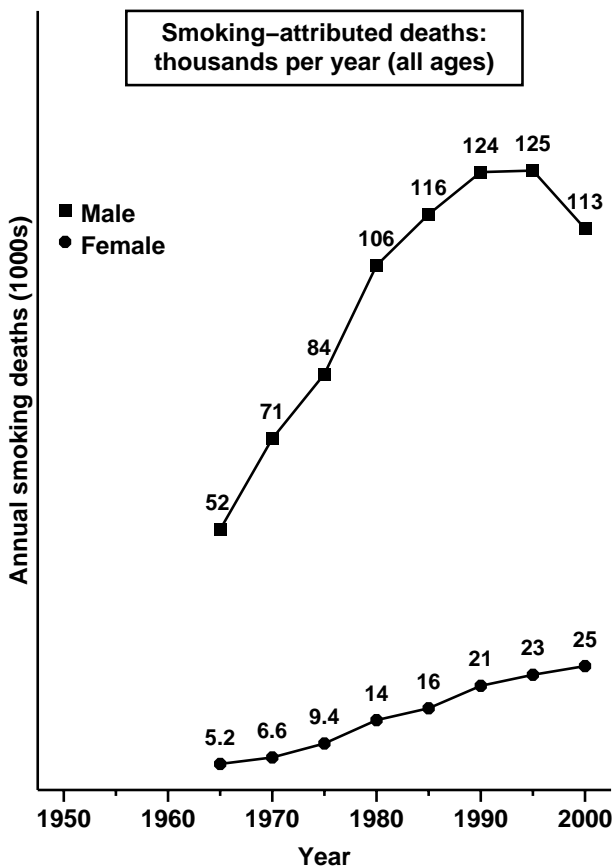
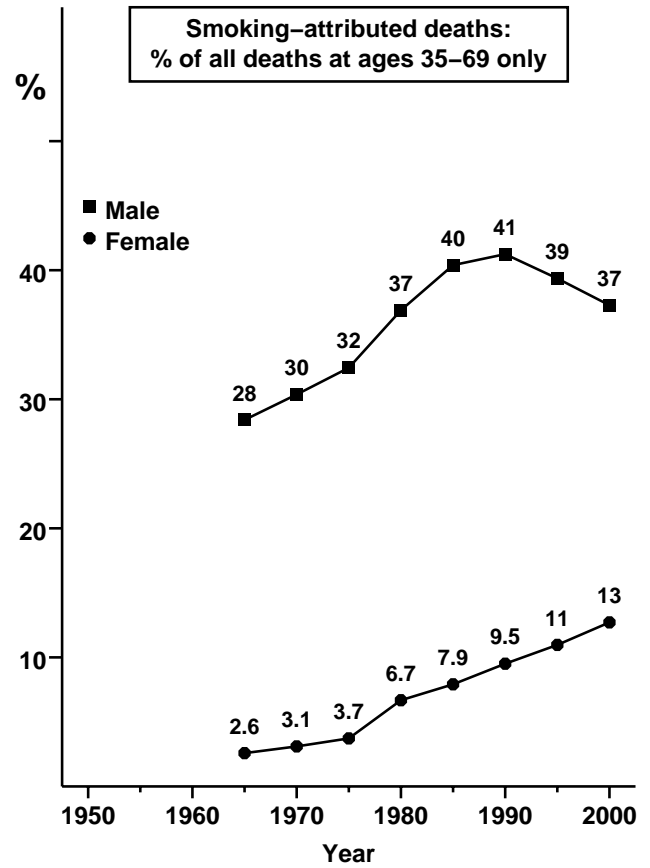
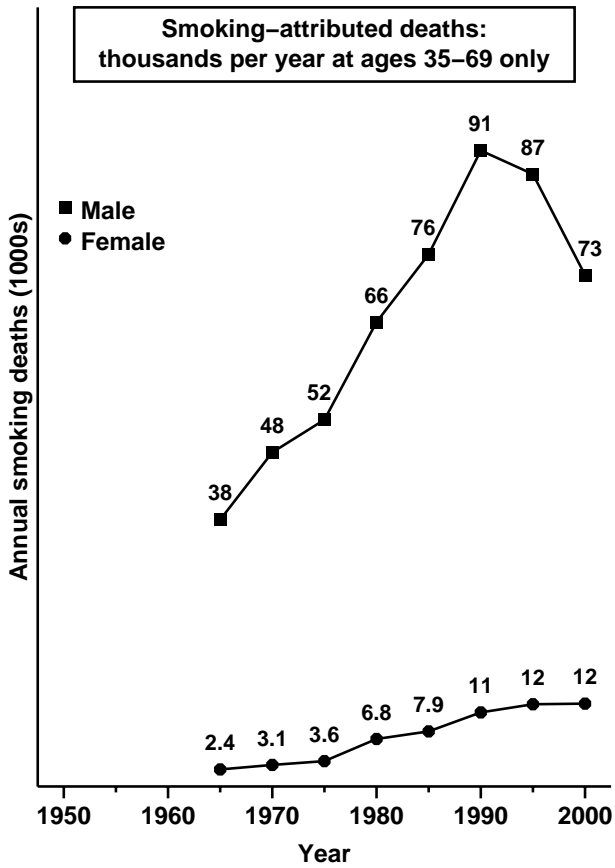
40-year total* (M=millions), mid-1960 to mid-2000: 4.3/ 29M

1960-2000 by age & sex:

-/1.5M	2.5/7.0M	1.2/6.8M	3.8/15M	-/0.8M	0.3/4.0M	0.3/9.3M	0.5/14M
	(36%)	(18%)			(6%)	(3%)	

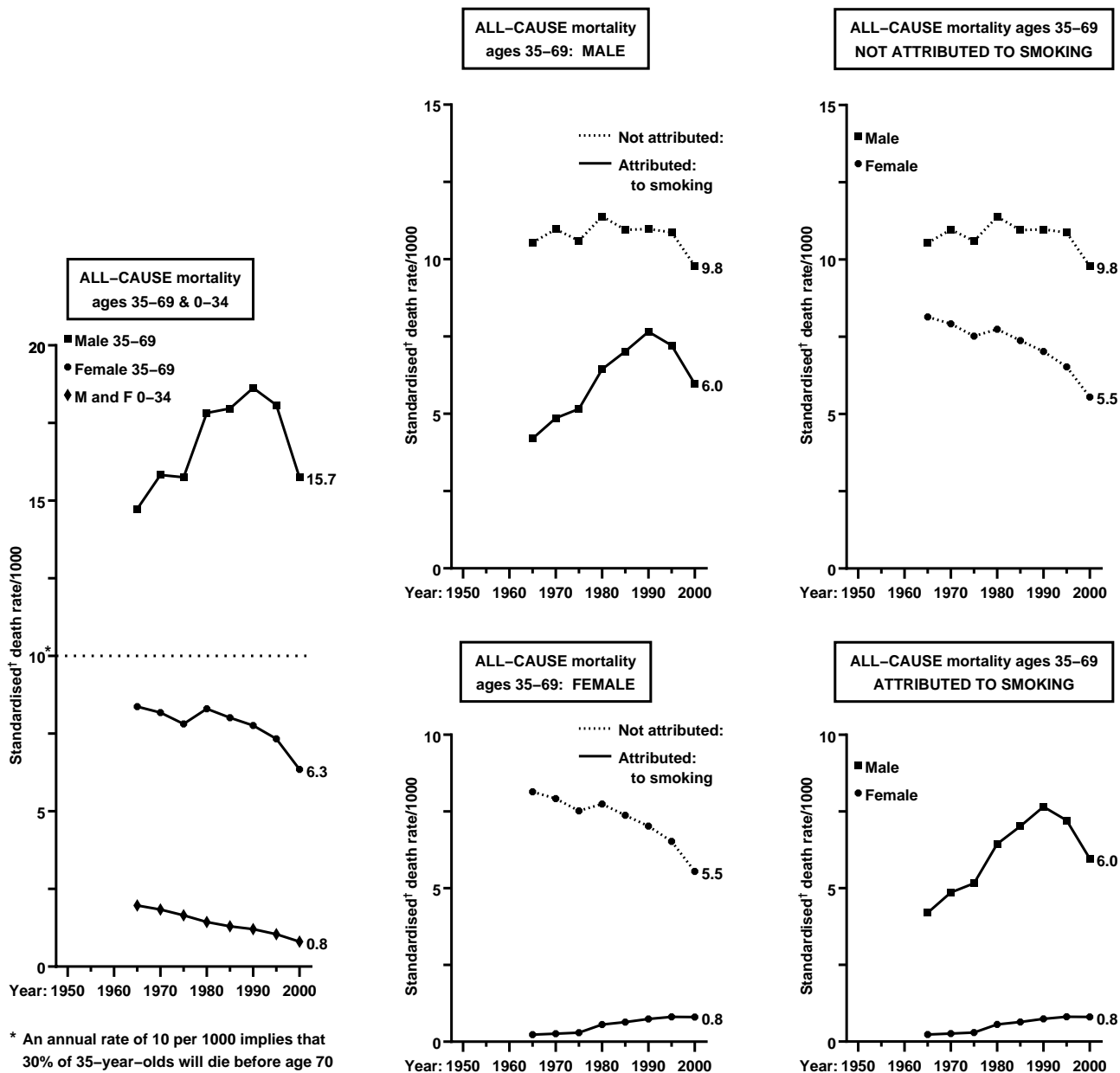
*Estimated as 10 times the sum of the annual numbers for 1965, 1975, 1985 & 1995

1965-2000: EU10 (European Union - 10 countries)



EU10 (European Union - 10 countries): 1965-2000

ALL-CAUSE mortality rates attributed and not attributed to smoking

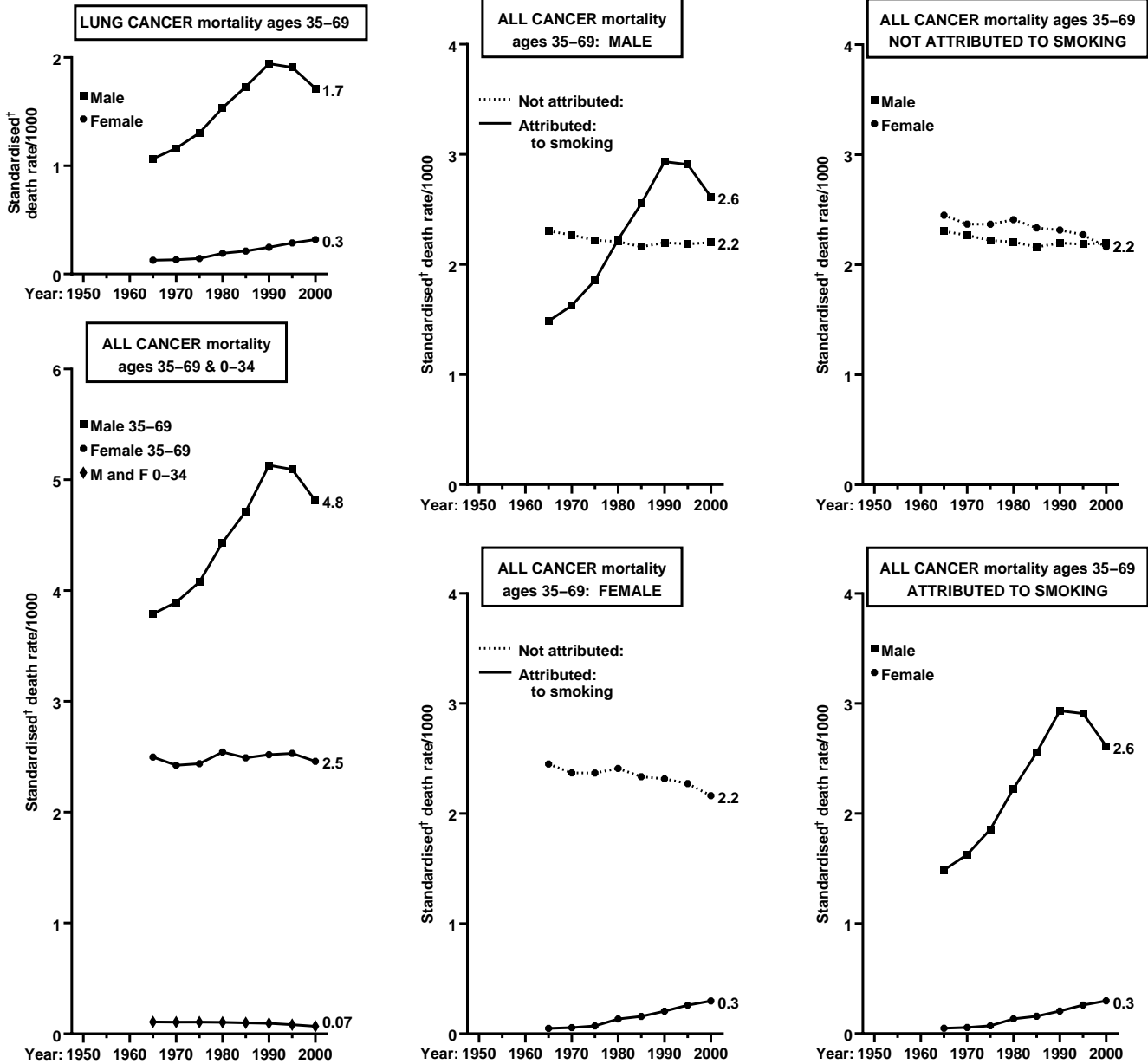


Year	MALE all-cause mortality (annual rate/1000, by age)								FEMALE all-cause mortality (annual rate/1000, by age)									
	0-34		35-69		70-79		0-34		35-69		70-79		0-34		35-69		70-79	
	Attributed to smoking?	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
1950	
1955	
1960	
1965	-	2.39	4.20	10.5	11.5	70.5	-	1.54	0.23	8.14	1.28	59.5	-	1.38	0.26	7.92	1.21	55.7
1970	-	2.29	4.86	11.0	15.3	68.5	-	1.20	0.29	7.52	1.65	54.8	-	0.98	0.56	7.74	1.74	52.1
1975	-	2.09	5.16	10.6	17.5	66.8	-	0.87	0.64	7.37	1.93	51.8	-	0.77	0.74	7.02	2.40	46.3
1980	-	1.88	6.44	11.4	18.4	68.2	-	0.66	0.81	6.52	2.32	42.0	-	0.66	0.81	6.52	2.32	42.0
1985	-	1.72	7.02	10.9	18.1	67.2	-	0.50	0.80	5.55	2.39	37.4	-	0.50	0.80	5.55	2.39	37.4
1990	-	1.64	7.65	11.0	16.9	63.5	-	0.50	0.80	5.55	2.39	37.4	-	0.50	0.80	5.55	2.39	37.4
1995	-	1.42	7.21	10.9	16.7	57.8	-	0.50	0.80	5.55	2.39	37.4	-	0.50	0.80	5.55	2.39	37.4
2000	-	1.10	5.96	9.78	16.2	52.3	-	0.50	0.80	5.55	2.39	37.4	-	0.50	0.80	5.55	2.39	37.4

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

1965-2000: EU10 (European Union - 10 countries)

ALL CANCER mortality rates attributed and not attributed to smoking



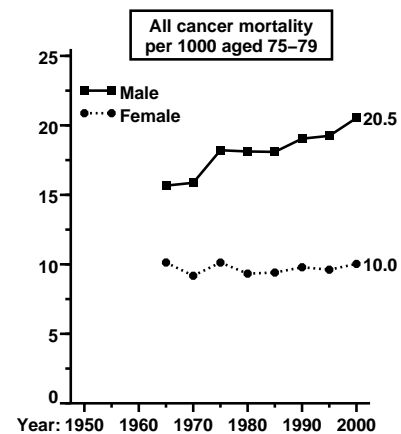
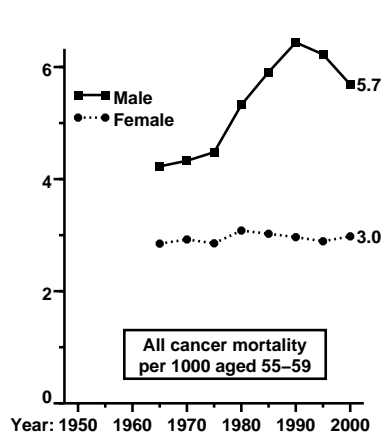
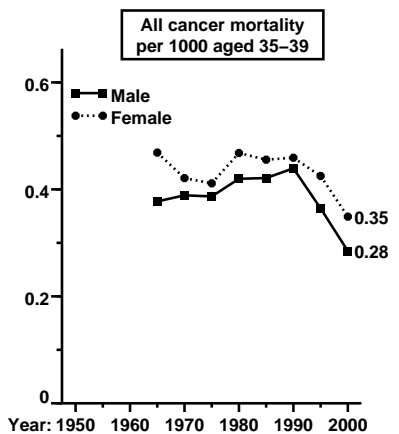
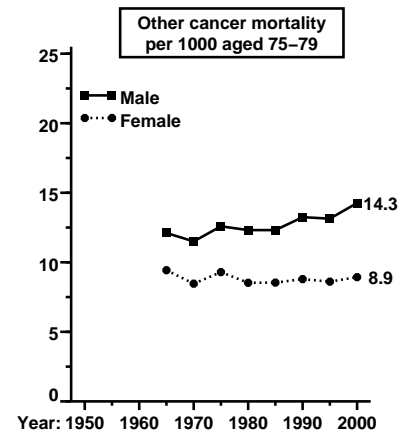
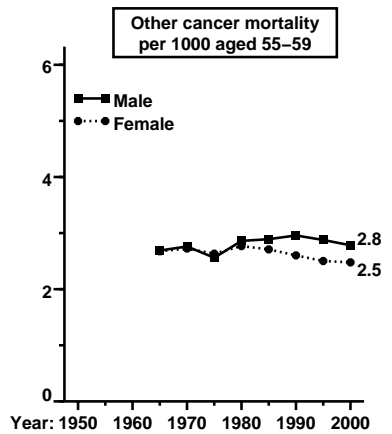
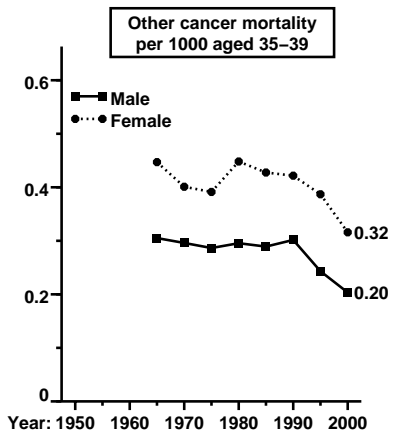
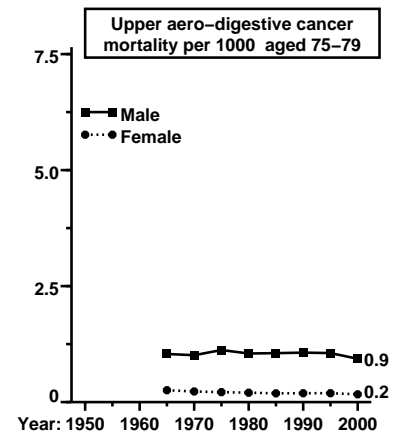
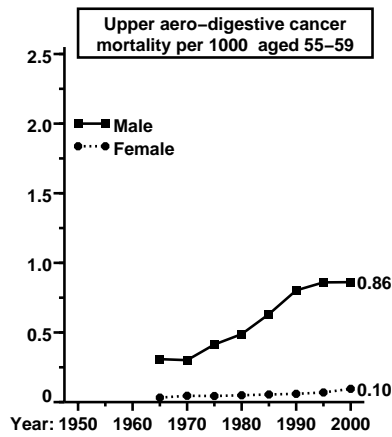
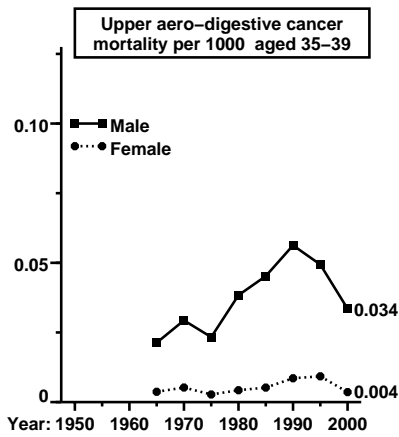
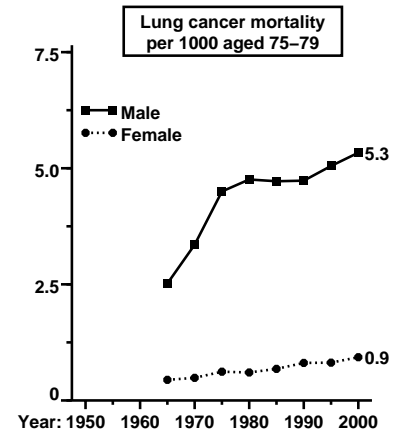
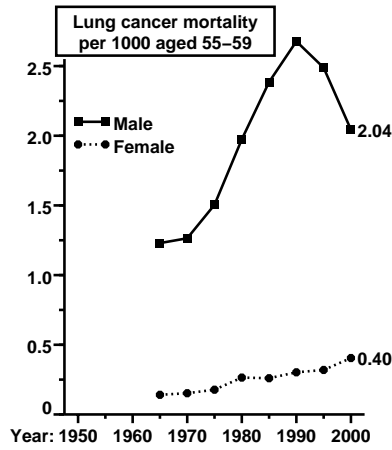
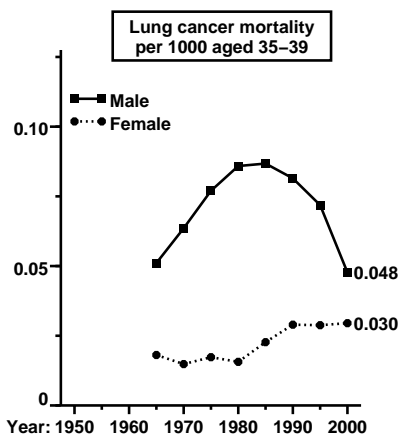
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

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
1955
1960
1965	-	0.11	1.49	2.30	3.87	10.9	-	0.10	0.05	2.45	0.21	9.02	-	0.10	0.05	2.37
1970	-	0.11	1.63	2.27	4.79	10.4	-	0.10	0.07	2.37	0.32	8.48	-	0.09	0.13	2.41
1975	-	0.11	1.86	2.22	6.03	10.5	-	0.09	0.16	2.33	0.40	8.02	-	0.09	0.20	2.31
1980	-	0.11	2.23	2.21	6.21	10.3	-	0.09	0.20	2.31	0.59	8.04	-	0.08	0.26	2.27
1985	-	0.11	2.55	2.16	6.34	10.4	-	0.08	0.26	2.27	0.63	7.99	-	0.06	0.30	2.16
1990	-	0.10	2.93	2.20	6.56	10.7	-	0.06	0.30	2.16	0.71	8.01	-	0.06	0.30	2.16
1995	-	0.09	2.91	2.19	7.11	10.7	-	0.06	0.30	2.16	0.71	8.01	-	0.06	0.30	2.16
2000	-	0.07	2.61	2.20	7.35	11.2	-	0.06	0.30	2.16	0.71	8.01	-	0.06	0.30	2.16

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

EU10 (European Union - 10 countries): 1965-2000

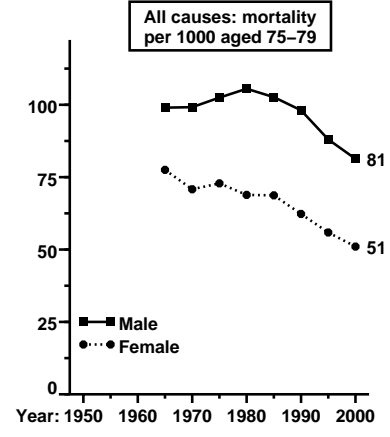
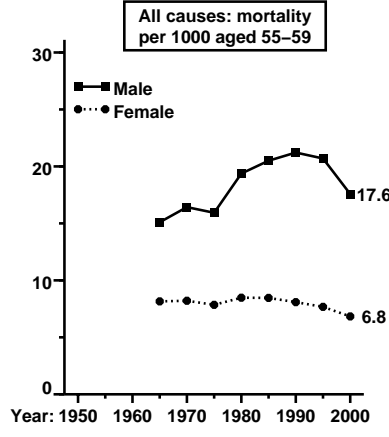
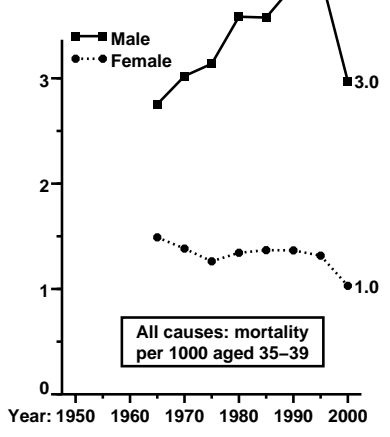
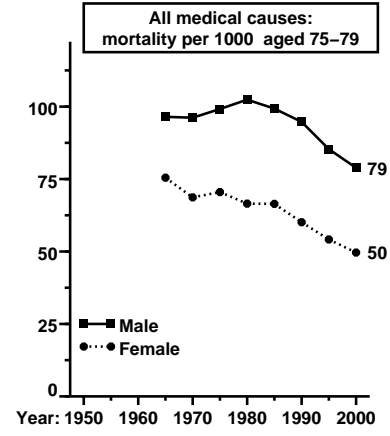
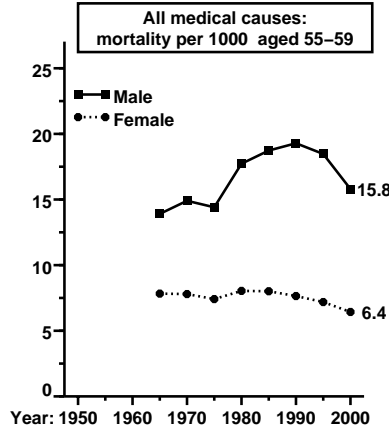
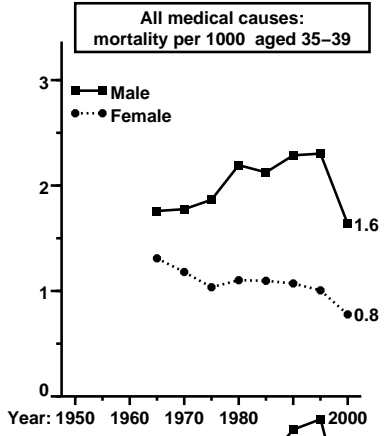
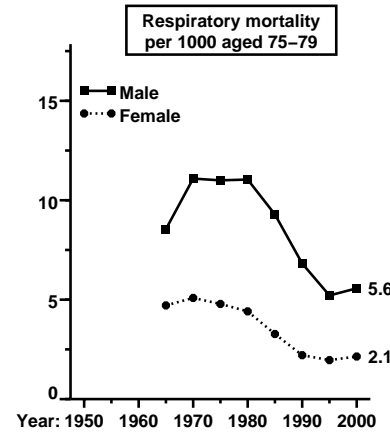
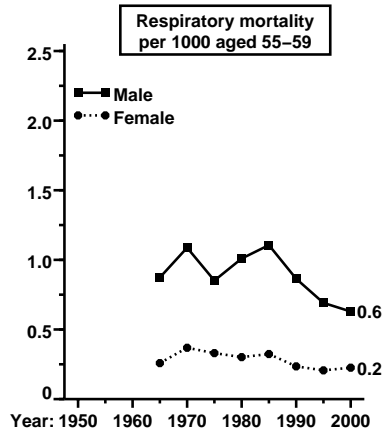
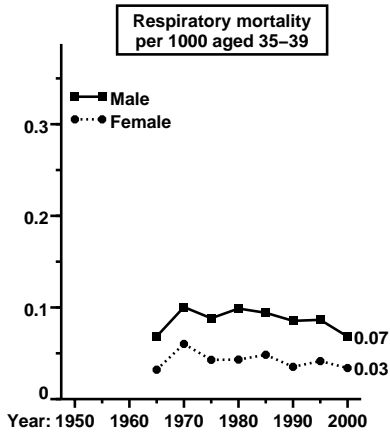
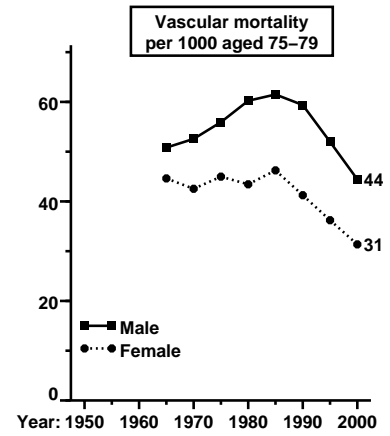
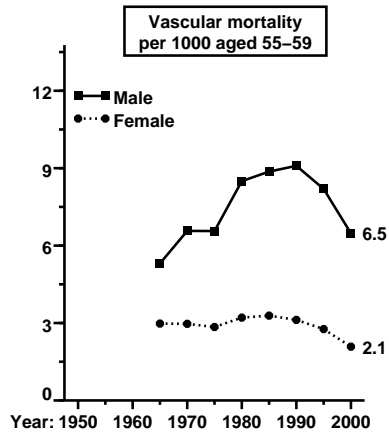
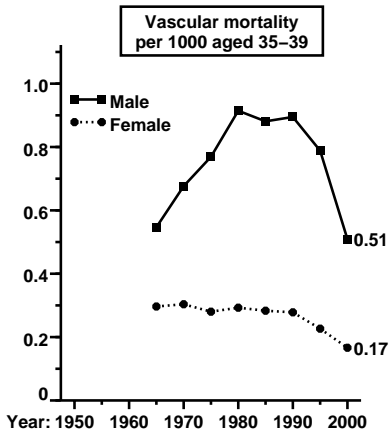
Mortality* trends at selected ages: 35-39, 55-59 & 75-79



* Annual mortality per 1000: 1965, 1970, 1975, 1980, 1985, 1990, 1995 and 2000

1965-2000: EU10 (European Union - 10 countries)

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



* Annual mortality per 1000: 1965, 1970, 1975, 1980, 1985, 1990, 1995 and 2000