

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

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Richard Peto, Alan D Lopez,  
Jillian Boreham and Michael Thun

# **FINLAND**

**Raw data** (pages 176–77, 178–79)

**Analyses** (pages 180–81, 182–83, 184–85)

**Appendix** (pages 186–87)

## FINLAND: 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	24042	946	9122	921.1	81.6	922.8	97.0	11.4	13.6	71.3	117.6	115.5	145.1
	F	25274	418	4167	524.8	38.1	398.1	70.1	11.2	16.1	28.3	39.2	43.7	57.9
Tuberculosis	M	64	-	19	2.5	-	2.1	-	-	-	-	-	-	-
	F	65	-	7	1.3	-	0.7	-	-	-	-	-	-	-
HIV	M	8	-	8	0.3	-	0.6	-	-	-	-	-	-	-
	F	2	1	1	0.1	0.1	0.1	-	-	-	-	-	-	0.6
Other infective and parasitic	M	97	8	39	3.8	0.7	4.1	2.0	0.6	-	-	1.2	-	1.1
	F	157	9	26	3.5	0.9	2.4	3.5	1.2	-	-	1.2	-	-
ALL CANCER	M	5204	54	2130	196.8	4.6	231.1	2.7	2.4	1.9	4.7	5.4	7.1	8.3
	F	5030	57	1724	124.5	5.1	164.8	2.8	2.5	1.3	4.3	3.7	8.1	12.7
Mouth and pharynx cancer	M	90	-	60	3.4	-	6.1	-	-	-	-	-	-	-
	F	59	1	14	1.3	0.1	1.2	-	-	-	-	-	-	0.6
Oesophagus cancer	M	99	-	59	3.7	-	6.2	-	-	-	-	-	-	-
	F	77	-	13	1.6	-	1.4	-	-	-	-	-	-	-
Stomach cancer	M	317	2	127	12.1	0.2	13.6	-	-	-	-	-	-	1.1
	F	245	3	75	5.9	0.3	7.2	-	-	-	-	-	0.7	1.2
Colorectal cancer	M	462	2	198	17.6	0.2	22.1	-	-	-	-	-	0.6	0.6
	F	563	2	156	13.1	0.2	15.1	-	-	-	-	-	1.3	-
Liver cancer	M	127	1	49	4.8	0.1	5.6	-	-	-	-	-	-	0.6
	F	114	-	24	2.5	-	2.4	-	-	-	-	-	-	-
Pancreas cancer	M	327	-	167	12.4	-	18.3	-	-	-	-	-	-	-
	F	394	-	113	9.2	-	11.2	-	-	-	-	-	-	-
Larynx cancer	M	24	-	11	0.9	-	1.2	-	-	-	-	-	-	-
	F	10	-	5	0.3	-	0.5	-	-	-	-	-	-	-
Lung cancer	M	1392	1	588	52.0	0.1	65.9	-	-	-	-	-	-	0.6
	F	454	2	169	11.5	0.2	16.6	-	-	-	-	-	-	1.2
Malignant melanoma	M	80	-	47	3.0	-	4.7	-	-	-	-	-	-	-
	F	58	2	25	1.5	0.2	2.5	-	-	-	-	0.6	-	0.6
Female breast cancer	F	822	5	422	22.9	0.4	37.7	-	-	-	-	-	0.7	2.3
Cervix cancer	F	77	1	38	2.1	0.1	3.2	-	-	-	-	-	-	0.6
Other uterine cancer	F	160	-	48	3.9	-	4.8	-	-	-	-	-	-	-
Ovarian cancer	F	298	2	129	8.0	0.2	12.2	-	-	-	-	-	0.7	0.6
Prostate cancer	M	750	-	159	29.1	-	19.3	-	-	-	-	-	-	-
Bladder cancer	M	145	-	30	5.5	-	3.6	-	-	-	-	-	-	-
	F	62	-	11	1.3	-	1.1	-	-	-	-	-	-	-
Other and ill-defined cancer sites	M	880	24	431	33.1	2.1	44.2	2.7	0.6	1.2	2.9	1.8	3.2	2.2
	F	1090	30	319	26.4	2.7	31.2	2.8	1.2	0.6	3.1	1.9	4.0	5.2
Hodgkin's disease	M	13	2	5	0.5	0.2	0.5	-	-	-	-	0.6	-	0.6
	F	13	1	6	0.4	0.1	0.5	-	-	-	-	-	0.7	-
Myeloma and non- Hodgkin lymphomas	M	327	9	140	12.3	0.8	13.9	-	-	-	1.2	1.8	1.3	1.1
	F	371	2	104	8.6	0.2	10.5	-	-	-	0.6	0.6	-	-
Leukaemia	M	171	13	59	6.5	1.1	6.0	-	1.8	0.6	0.6	1.2	1.9	1.7
	F	163	6	53	4.0	0.5	5.5	-	1.2	0.6	0.6	0.6	-	0.6
Diabetes	M	224	9	103	8.4	0.8	9.8	-	-	-	-	2.4	1.3	1.7
	F	348	5	61	7.4	0.4	6.0	-	-	-	-	-	1.3	1.7
ALL VASCULAR DISEASE	M	9925	63	3345	380.6	5.4	356.6	1.3	-	0.6	4.7	8.4	10.9	11.7
	F	11474	29	1074	215.7	2.6	108.1	1.4	2.9	1.3	0.6	3.1	3.4	8.1
Rheumatic heart disease and fever	M	14	-	4	0.5	-	0.4	-	-	-	-	-	-	-
	F	55	1	5	1.1	0.1	0.5	-	-	-	-	0.6	-	-
Hypertensive disease	M	139	1	36	5.4	0.1	4.1	-	-	-	-	0.6	-	-
	F	295	-	11	5.2	-	1.2	-	-	-	-	-	-	-
Ischaemic heart disease	M	6512	9	2276	249.6	0.8	246.3	-	-	-	-	0.6	2.6	2.2
	F	6388	4	506	117.9	0.3	52.9	0.7	-	-	-	-	-	1.7
Pulmonary embolism and other venous	M	108	4	31	4.1	0.3	3.2	-	-	-	0.6	1.2	0.6	-
	F	203	6	53	4.6	0.5	5.2	-	-	-	0.6	-	1.3	1.7
Cerebrovascular disease	M	1858	18	477	71.8	1.5	51.4	-	-	-	1.2	2.4	3.2	3.9
	F	3162	9	341	60.3	0.8	33.0	-	-	0.6	-	0.6	1.3	2.9
Other vascular disease	M	1294	31	521	49.2	2.6	51.3	1.3	-	0.6	2.9	3.6	4.5	5.6
	F	1371	9	158	26.5	0.8	15.4	0.7	-	0.6	-	1.9	0.7	1.7
Chronic obstructive pulmonary disease	M	843	2	183	32.1	0.2	21.6	-	0.6	-	-	-	-	0.6
	F	363	1	71	7.9	0.1	7.2	-	-	-	-	-	0.7	-
Other respiratory disease	M	1453	14	262	57.4	1.2	27.2	2.0	1.2	-	0.6	1.2	1.9	1.7
	F	1634	7	97	29.2	0.6	9.5	-	0.6	0.6	2.5	0.6	-	-
Peptic ulcer	M	140	1	69	5.3	0.1	6.9	-	-	-	-	-	-	0.6
	F	129	1	22	2.7	0.1	2.2	-	-	-	-	-	-	0.6
Liver cirrhosis	M	454	8	390	16.7	0.6	34.5	-	-	-	-	-	-	4.4
	F	208	1	129	6.2	0.1	11.2	-	-	-	-	-	-	0.6
Renal disease	M	96	1	20	3.8	0.1	2.4	0.7	-	-	-	-	-	-
	F	228	-	12	4.0	-	1.3	-	-	-	-	-	-	-
Pregnancy, birth Congenital and perinatal causes	F	3	3	-	0.1	0.3	-	-	-	-	-	1.2	-	0.6
	M	154	118	29	7.4	11.0	2.4	66.4	0.6	0.6	4.1	1.8	1.3	2.2
	F	121	83	26	5.6	8.1	2.1	50.7	1.2	1.3	-	0.6	1.3	1.7
Ill-defined causes	M	100	29	58	4.0	2.6	5.2	9.3	-	-	0.6	1.2	1.9	5.0
	F	78	10	32	2.3	0.9	3.0	3.5	-	-	0.6	1.2	0.7	0.6
Other medical causes	M	2427	87	721	94.3	7.5	69.0	4.7	1.2	3.1	4.7	11.3	15.4	12.2
	F	4159	47	376	78.3	4.3	36.1	4.9	2.5	4.5	1.8	5.0	6.0	5.2
ALL NON- MEDICAL CAUSES	M	2853	552	1746	107.7	46.9	149.2	8.0	4.8	7.4	51.8	84.8	75.7	95.6
	F	1275	164	509	36.0	14.6	43.3	3.5	3.1	7.1	18.5	22.4	22.2	25.5
Road traffic accidents	M	267	78	134	10.3	6.7	11.7	0.7	1.8	3.1	14.7	11.3	8.3	6.7
	F	133	44	47	4.5	4.0	4.2	2.1	1.9	2.6	5.5	5.0	7.4	3.5
Fire	M	61	14	40	2.3	1.1	3.3	-	-	0.6	0.6	1.8	-	5.0
	F	14	5	5	0.5	0.4	0.4	-	0.6	0.6	-	0.6	-	1.2
Suicide	M	873	261	540	33.0	22.1	44.2	-	-	-	20.6	41.8	40.4	51.7
	F	290	68	191	10.5	6.0	16.0	-	-	1.3	6.8	9.3	9.4	15.0
Homicide	M	94	36	53	3.6	3.0	4.1	0.7	0.6	0.6	3.5	6.0	1.9	7.8
	F	42	18	21	1.6	1.6	1.7	0.7	-	2.6	2.5	3.1	0.7	1.7
<b>POPULATION:</b>			<b>M=male</b>											
<b>(1000s; UN, 2004 revision)</b>			<b>F=female</b>											
				2526.0	1152.2	1181.7		150.5	166.6	162.1	169.8	167.5	155.8	179.9
				2650.5	1104.3	1192.1		144.0	160.7	155.0	162.3	160.6	148.9	172.8

## 2000: FINLAND

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			
195.6	314.7	459.2	713.4	959.3	1461.6	2356.2	3861.0	6397.5	14684.3	M	ALL CAUSES	001-999/A00-Y89
82.2	134.8	209.8	294.9	409.1	645.1	1010.6	1851.6	3594.1	11512.6	F		
-	0.5	0.5	0.9	2.0	4.0	6.8	12.5	15.8	53.0	M	Tuberculosis	010-018, 137/ A15-A19, B90
0.5	1.5	1.0	0.5	-	0.8	-	11.5	11.5	25.1	F	HIV	279.5, 279.6/B20-B24
1.0	0.5	2.0	1.9	6.1	5.7	11.6	8.0	17.5	69.9	M	Other infective and parasitic	Rest of 001-139/rest of A00-B99 excl A33,A34
1.1	0.5	2.0	0.9	4.7	3.0	4.9	13.1	26.7	61.2	F		
18.1	25.6	60.5	146.6	251.7	401.0	714.3	1124.1	1574.4	2402.5	M	ALL CANCER	140-208/C00-C97
25.3	46.5	81.0	129.9	191.2	287.2	392.3	618.9	841.5	1266.1	F		
-	2.1	2.0	5.1	10.2	10.5	12.5	9.1	15.8	27.5	M	Mouth and pharynx cancer	140-149/C00-C14
-	-	1.5	1.9	1.3	1.5	2.4	3.3	10.5	22.8	F	Oesophagus cancer	150/C15
-	1.0	3.0	5.1	7.5	7.3	19.3	14.8	26.3	25.4	M		
-	-	0.5	0.5	1.3	0.7	6.5	10.7	17.2	25.9	F		
1.5	1.5	3.9	8.8	15.6	25.9	37.6	62.6	80.6	184.3	M	Stomach cancer	151/C16
2.7	3.2	4.5	3.3	6.7	11.2	18.8	25.4	48.7	66.7	F		
2.1	2.6	4.9	9.8	25.8	30.7	79.2	78.6	155.9	220.3	M	Colorectal cancer	153, 154/C18-C21
1.6	2.1	5.0	15.2	12.7	30.5	38.3	73.0	92.6	171.9	F		
-	-	1.0	3.3	4.1	9.7	21.2	31.9	38.5	57.2	M	Liver cancer	155.0/C22 excl C221
0.5	-	1.5	0.9	2.0	5.2	6.5	10.7	25.8	39.2	F		
-	2.1	6.4	9.3	23.1	28.3	58.9	69.5	70.1	125.0	M	Pancreas cancer	157/C25
-	1.6	5.0	6.6	11.3	23.1	31.0	52.5	70.7	112.2	F		
-	-	-	0.9	1.4	1.6	4.8	2.3	12.3	8.5	M	Larynx cancer	161/C32
-	-	-	0.5	0.7	-	2.4	-	1.9	2.4	F		
1.5	1.0	10.8	38.6	65.1	127.7	216.2	372.4	478.1	430.1	M	Lung cancer	162/C33, C34
0.5	3.2	2.5	15.6	18.7	27.5	48.1	70.5	76.4	91.8	F		
1.0	2.1	2.5	2.8	8.8	4.9	10.6	15.9	19.3	16.9	M	Malignant melanoma	172/C43
-	1.1	-	1.9	2.0	5.2	7.3	3.3	6.7	15.7	F		
9.7	14.3	26.7	45.0	54.0	66.2	48.1	85.2	125.1	125.6	F	Female breast cancer	174/C50
2.1	3.2	3.5	3.8	2.7	3.0	4.1	5.7	15.3	11.8	F	Cervix cancer	180/C53
-	-	1.5	3.3	5.3	11.9	11.4	29.5	22.9	40.8	F	Other uterine cancer	179, 182/C54, C55
2.7	5.3	7.5	6.2	20.7	20.1	22.8	41.0	44.9	54.9	F	Ovarian cancer	183/C56, C570-C574
-	-	3.0	2.8	9.5	43.7	76.3	141.2	280.2	650.4	M	Prostate cancer	185/C61
-	0.5	-	0.5	4.1	7.3	12.5	36.4	66.5	95.3	M	Bladder cancer	188/C67
-	-	-	1.4	0.7	2.2	3.3	9.0	12.4	21.2	F		
7.7	7.2	18.2	38.2	48.8	75.2	113.9	185.6	206.7	305.1	M	Other and ill-defined cancer sites	Rest of 140-199/ rest of C00-C80, C97
4.3	7.9	16.1	16.1	37.3	52.8	84.0	130.3	194.8	296.7	F	Hodgkin's disease	201/C81
0.5	0.5	-	-	0.7	0.8	1.0	2.3	1.8	6.4	M		
-	1.1	-	0.9	-	0.7	0.8	1.6	1.0	2.4	F		
2.1	2.6	3.4	16.3	21.0	19.4	32.8	69.5	77.1	154.7	M	Myeloma and non- Hodgkin lymphomas	200, 202-203/ C82-C90, C96
1.1	1.6	3.0	5.7	10.7	14.9	36.7	47.5	57.3	115.4	F	Leukaemia	204-208/C91-C95
1.5	2.6	1.5	5.1	6.1	8.1	17.4	31.9	45.5	95.3	M		
-	2.1	2.0	0.9	3.3	10.4	19.6	19.7	17.2	48.7	F		
6.2	5.1	6.9	6.5	10.9	12.1	21.2	41.0	52.5	97.5	M	Diabetes	250/E10-E14
1.6	2.6	2.5	3.3	2.0	8.2	22.0	35.2	60.2	138.1	F		
32.5	55.4	124.0	241.5	378.6	601.5	1062.7	1752.8	2996.5	6921.6	M	ALL VASCULAR DISEASE	390-459/I00-I99
14.5	19.6	34.7	60.7	81.3	182.3	363.8	740.2	1673.4	6056.5	F		
-	0.5	0.5	-	-	0.8	1.0	2.3	8.8	6.4	M	Rheumatic heart disease and fever	390-398/I00-I09
-	-	-	0.5	1.3	0.7	0.8	6.6	17.2	18.1	F	Hypertensive disease	401-405/I10-I15
-	1.0	0.5	1.9	4.7	4.9	15.4	21.6	36.8	131.4	M		
-	-	-	0.5	1.3	2.2	4.1	16.4	35.3	178.2	F		
11.4	28.7	71.4	155.9	276.8	436.5	743.2	1162.9	2001.8	4370.8	M	Ischaemic heart disease	410-414/I20-I25
3.8	6.3	12.1	19.4	28.0	93.8	207.2	415.6	954.2	3431.7	F		
-	1.0	2.0	2.8	2.0	5.7	8.7	23.9	43.8	57.2	M	Pulmonary embolism and other venous	415.1, 451-453/ I26, I80-I82
0.5	2.1	1.0	4.3	3.3	12.6	12.2	13.1	27.7	77.7	F		
6.2	8.7	18.7	31.6	51.6	70.3	172.8	334.9	570.9	1574.2	M	Cerebrovascular disease	430-438/I60-I69
4.8	8.5	15.1	26.6	31.3	49.9	94.6	197.5	458.5	1641.3	F		
15.0	15.4	31.0	49.3	43.4	83.3	121.6	207.3	334.5	781.8	M	Other vascular disease	Rest of 390-459/ rest of I00-I99
5.4	2.6	6.5	9.5	16.0	23.1	44.9	91.0	180.5	709.6	F	Chronic obstructive pulmonary disease	490-496/ J40-J47, J67
0.5	1.0	1.0	5.1	24.4	36.4	83.0	198.2	369.5	578.4	M	Other respiratory disease	Rest of 460-519/ rest of J00-J98
0.5	1.1	1.0	3.8	7.3	16.4	20.4	38.5	85.0	121.7	F		
3.1	6.2	13.8	21.4	23.1	44.5	78.2	139.0	471.1	1665.3	M		
2.7	1.6	3.0	6.6	9.3	14.1	29.4	72.1	186.2	978.8	F		
0.5	2.1	3.9	6.0	8.8	10.5	16.4	22.8	29.8	69.9	M	Peptic ulcer	531-533/K25-K27
-	-	1.5	0.5	4.0	4.5	4.9	9.0	22.0	56.5	F		
6.2	23.1	37.9	40.9	44.1	51.7	37.6	35.3	19.3	29.7	M	Liver cirrhosis	571/K70, K74
2.1	7.4	11.6	13.8	13.3	19.3	10.6	22.1	24.8	19.6	F		
-	-	2.0	-	-	2.4	12.5	13.7	26.3	101.7	M	Renal disease	580-590/N00-N19
-	-	0.5	-	0.7	3.0	4.9	9.8	28.7	136.6	F		
-	-	-	-	-	-	-	-	-	-	F	Pregnancy, birth Congenital and perinatal causes	630-676/A34,000-099 740-779/A33, P00-P96, Q00-Q99
6.2	2.1	4.9	3.7	4.7	8.9	5.8	5.7	5.3	10.6	M	Ill-defined causes	780-799/R00-R99
0.5	2.6	1.5	1.4	4.0	5.2	5.7	3.3	2.9	22.8	F		
21.2	33.8	50.2	63.8	65.8	104.3	143.8	315.5	597.2	2120.8	M	Other medical causes	Rest of 001-799/ rest of A00-R99
5.9	16.4	17.1	24.7	38.6	52.8	97.1	204.9	534.9	2296.7	F		
99.1	155.3	148.1	170.8	136.4	174.6	160.2	192.5	217.2	555.1	M	ALL NON- MEDICAL CAUSES	E800-E999/V01-Y89
27.9	35.9	50.8	43.1	48.6	46.9	49.8	69.7	92.6	329.7	F	Road traffic accidents	E810-E819, E826-E829/ part of V01-V99, Y850
8.8	10.3	10.8	11.6	8.8	20.2	11.6	26.2	12.3	53.0	M		
4.3	3.7	4.0	1.4	3.3	4.5	8.2	12.3	8.6	14.1	F	Fire	E890-E899/X00-X09
3.6	4.1	1.5	4.2	4.1	4.9	1.0	1.1	8.8	2.1	M		
-	1.1	1.0	0.5	-	-	-	0.8	1.9	0.8	F	Suicide	E950-E959/X60-X84
43.3	57.4	51.7	47.0	40.0	34.0	35.7	31.9	35.0	50.8	M		
15.0	12.2	20.1	14.7	22.7	12.6	14.7	11.5	7.6	7.1	F	Homicide	E960-E969/ X85-X99, Y00-Y09
5.2	7.7	4.9	3.7	3.4	4.0	-	2.3	1.8	4.2	M		
3.2	3.7	0.5	1.4	1.3	1.5	-	0.8	1.0	0.8	F		
193.8	195.1	203.2	214.9	147.4	123.7	103.6	87.8	57.1	47.2	M	POPULATION (1000s; UN, 2004 revision)	
186.1	189.2	198.8	210.9	150.1	134.4	122.6	122.0	104.7	127.4	F		

<b>FINLAND: 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	1064	65	0	2	63	2	10	56	4	253	674
35-69	Sm.	2140	889	654	74	161	142	53	854	-	202	-
	Total	9887 (22%)	2260 (39%)	730 (90%)	133 (56%)	1397 (12%)	197 (72%)	248 (21%)	3962 (22%)	335	912 (22%)	1973
70+	Sm.	2646	1046	713	69	264	407	117	887	-	189	-
	Total	13332 (20%)	2848 (37%)	780 (91%)	113 (61%)	1955 (14%)	546 (75%)	978 (12%)	6897 (13%)	56	1531 (12%)	476
Any age	Sm.	4786	1935	1367	143	425	549	170	1741	-	391	-
	Total	24283 (20%)	5173 (37%)	1510 (91%)	248 (58%)	3415 (12%)	745 (74%)	1236 (14%)	10915 (16%)	395	2696 (15%)	3123
<b>2000</b>												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	946	54	1	0	53	2	14	63	8	253	552
35-69	Sm.	1571	687	507	59	121	118	44	546	-	176	-
	Total	9122 (17%)	2130 (32%)	588 (86%)	130 (45%)	1412 (9%)	183 (64%)	262 (17%)	3345 (16%)	390	1066 (17%)	1746
70+	Sm.	2561	1025	724	47	254	471	121	728	-	216	-
	Total	13974 (18%)	3020 (34%)	803 (90%)	83 (57%)	2134 (12%)	658 (72%)	1177 (10%)	6517 (11%)	56	1991 (11%)	555
Any age	Sm.	4132	1712	1231	106	375	589	165	1274	-	392	-
	Total	24042 (17%)	5204 (33%)	1392 (88%)	213 (50%)	3599 (10%)	843 (70%)	1453 (11%)	9925 (13%)	454	3310 (12%)	2853

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	2486.5	1193.7	1128.8	197.2	206.9	221.1	153.5	131.7	114.7	103.7	74.8	44.5	44.7
2000	2526.0	1152.2	1181.7	193.8	195.1	203.2	214.9	147.4	123.7	103.6	87.8	57.1	47.2
<b>NUMBER OF DEATHS (Source: WHO)</b>													
<b>All causes</b>													
1995	24283	1064	9887	456	719	1147	1114	1446	2004	3001	3459	3263	6610
2000	24042	946	9122	379	614	933	1533	1414	1808	2441	3390	3653	6931
<b>Lung cancer</b>													
1995	1510	-	730	7	12	38	57	134	168	314	332	240	208
2000	1392	1	588	3	2	22	83	96	158	224	327	273	203
<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	1021.4*	87.0*	1080.3*	231.2	347.5	518.8	725.7	1097.9	1747.2	2893.9	4624.3	7332.6	14787.5
2000	921.1*	81.6*	922.8*	195.6	314.7	459.2	713.4	959.3	1461.6	2356.2	3861.0	6397.5	14684.3
<b>All cancer</b>													
1995	218.2*	5.3*	264.0*	16.7	31.4	79.1	142.0	286.3	468.2	824.5	1279.4	1793.3	2445.2
2000	196.8*	4.6*	231.1*	18.1	25.6	60.5	146.6	251.7	401.0	714.3	1124.1	1574.4	2402.5
<b>Lung cancer</b>													
1995	63.4*	-	87.8*	3.5	5.8	17.2	37.1	101.7	146.5	302.8	443.9	539.3	465.3
2000	52.0*	0.1*	65.9*	1.5	1.0	10.8	38.6	65.1	127.7	216.2	372.4	478.1	430.1
<b>Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)</b>													
1995	10.5*	0.2*	14.8*	-	2.9	6.8	13.0	15.2	34.0	31.8	48.1	67.4	105.1
2000	8.0*	-	13.5*	-	3.1	4.9	11.2	19.0	19.4	36.7	26.2	54.3	61.4
<b>Other cancer</b>													
1995	144.3*	5.1*	161.4*	13.2	22.7	55.2	91.9	169.3	287.7	489.9	787.4	1186.5	1874.7
2000	136.9*	4.5*	151.8*	16.5	21.5	44.8	96.8	167.6	253.8	461.4	725.5	1042.0	1911.0
<b>Chronic obstructive pulmonary disease (COPD)</b>													
1995	31.8*	0.2*	24.6*	1.0	1.0	3.2	8.5	15.2	41.0	102.2	201.9	319.1	566.0
2000	32.1*	0.2*	21.6*	0.5	1.0	1.0	5.1	24.4	36.4	83.0	198.2	369.5	578.4
<b>Other respiratory disease</b>													
1995	53.5*	0.8*	27.5*	4.6	10.6	10.0	20.2	23.5	41.8	82.0	187.2	384.3	1492.2
2000	57.4*	1.2*	27.2*	3.1	6.2	13.8	21.4	23.1	44.5	78.2	139.0	471.1	1665.3
<b>Vascular disease</b>													
1995	464.4*	4.4*	460.7*	29.4	64.8	153.3	251.5	448.7	839.6	1437.8	2324.9	3829.2	7727.1
2000	380.6*	5.4*	356.6*	32.5	55.4	124.0	241.5	378.6	601.5	1062.7	1752.8	2996.5	6921.6
<b>Liver cirrhosis</b>													
1995	15.8*	0.3*	31.8*	7.1	20.3	33.9	43.0	35.7	48.8	33.8	36.1	42.7	22.4
2000	16.7*	0.6*	34.5*	6.2	23.1	37.9	40.9	44.1	51.7	37.6	35.3	19.3	29.7
<b>Other medical causes</b>													
1995	114.4*	21.3*	93.8*	38.0	49.8	59.7	73.0	85.0	129.9	220.8	382.4	703.4	2085.0
2000	129.8*	22.7*	102.6*	36.1	48.2	73.8	87.0	101.1	152.0	220.1	419.1	749.6	2531.8
<b>All non-medical causes</b>													
1995	123.3*	54.8*	177.9*	134.4	169.6	179.6	187.6	203.5	177.9	192.9	212.6	260.7	449.7
2000	107.7*	46.9*	149.2*	99.1	155.3	148.1	170.8	136.4	174.6	160.2	192.5	217.2	555.1

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

## 1995, 2000: FINLAND

## 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	429	62	1	0	61	1	5	23	6	173	159
35-69	Sm.	209	86	69	7	10	22	3	69	-	29	-
	Total	4381	1762	161	38	1563	75	87	1290	87	565	515
		(5%)	(5%)	(43%)	(18%)	(1%)	(29%)	(3%)	(5%)		(5%)	
70+	Sm.	602	152	107	21	24	84	30	254	-	82	-
	Total	20232	3045	208	103	2734	222	1391	11254	53	3686	581
		(3%)	(5%)	(51%)	(20%)	(1%)	(38%)	(2%)	(2%)		(2%)	
Any age	Sm.	811	238	176	28	34	106	33	323	-	111	-
	Total	25042	4869	370	141	4358	298	1483	12567	146	4424	1255
		(3%)	(5%)	(48%)	(20%)	(1%)	(36%)	(2%)	(3%)		(3%)	
<b>2000</b>												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	418	57	2	1	54	1	7	29	1	159	164
35-69	Sm.	206	90	74	7	9	22	5	59	-	30	-
	Total	4167	1724	169	32	1523	71	97	1074	129	563	509
		(5%)	(5%)	(44%)	(22%)	(1%)	(31%)	(5%)	(5%)		(5%)	
70+	Sm.	766	219	159	28	32	121	38	270	-	118	-
	Total	20689	3249	283	113	2853	291	1530	10371	78	4568	602
		(4%)	(7%)	(56%)	(25%)	(1%)	(42%)	(2%)	(3%)		(3%)	
Any age	Sm.	972	309	233	35	41	143	43	329	-	148	-
	Total	25274	5030	454	146	4430	363	1634	11474	208	5290	1275
		(4%)	(6%)	(51%)	(24%)	(1%)	(39%)	(3%)	(3%)		(3%)	

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	2621.0	1143.3	1150.6	189.5	199.8	213.0	152.3	137.5	127.4	131.1	120.3	88.5	118.3
2000	2650.5	1104.3	1192.1	186.1	189.2	198.8	210.9	150.1	134.4	122.6	122.0	104.7	127.4
<b>NUMBER OF DEATHS (Source: WHO)</b>													
<b>All causes</b>													
1995	25042	429	4381	173	268	440	486	610	857	1547	2577	3763	13892
2000	25274	418	4167	153	255	417	622	614	867	1239	2259	3763	14667
<b>Lung cancer</b>													
1995	370	1	161	6	5	17	19	18	40	56	69	63	76
2000	454	2	169	1	6	5	33	28	37	59	86	80	117
<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	563.3*	37.0*	435.3*	91.3	134.1	206.6	319.1	443.6	672.7	1180.0	2142.1	4252.0	11743.0
2000	524.8*	38.1*	398.1*	82.2	134.8	209.8	294.9	409.1	645.1	1010.6	1851.6	3594.1	11512.6
<b>All cancer</b>													
1995	129.5*	5.2*	174.5*	22.2	44.0	99.1	158.2	200.0	270.8	427.2	599.3	866.7	1316.1
2000	124.5*	5.1*	164.8*	25.3	46.5	81.0	129.9	191.2	287.2	392.3	618.9	841.5	1266.1
<b>Lung cancer</b>													
1995	10.4*	0.1*	16.2*	3.2	2.5	8.0	12.5	13.1	31.4	42.7	57.4	71.2	64.2
2000	11.5*	0.2*	16.6*	0.5	3.2	2.5	15.6	18.7	27.5	48.1	70.5	76.4	91.8
<b>Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)</b>													
1995	3.4*	-	3.8*	-	-	3.3	3.3	5.8	5.5	8.4	16.6	23.7	52.4
2000	3.2*	0.1*	3.1*	-	-	2.0	2.8	3.3	2.2	11.4	13.9	29.6	51.0
<b>Other cancer</b>													
1995	115.7*	5.1*	154.6*	19.0	41.5	87.8	142.5	181.1	233.9	376.0	525.4	771.8	1199.5
2000	109.8*	4.8*	145.1*	24.7	43.3	76.5	111.4	169.2	257.4	332.8	534.4	735.4	1123.2
<b>Chronic obstructive pulmonary disease (COPD)</b>													
1995	7.3*	0.1*	7.9*	0.5	0.5	0.9	4.6	10.2	14.9	23.6	43.2	63.3	96.4
2000	7.9*	0.1*	7.2*	0.5	1.1	1.0	3.8	7.3	16.4	20.4	38.5	85.0	121.7
<b>Other respiratory disease</b>													
1995	28.6*	0.4*	8.7*	2.6	1.0	4.7	7.2	5.1	11.8	28.2	64.8	229.4	938.3
2000	29.2*	0.6*	9.5*	2.7	1.6	3.0	6.6	9.3	14.1	29.4	72.1	186.2	978.8
<b>Vascular disease</b>													
1995	258.4*	1.9*	135.1*	11.6	12.5	30.0	56.5	108.4	222.9	503.4	1044.9	2290.4	6737.1
2000	215.7*	2.6*	108.1*	14.5	19.6	34.7	60.7	81.3	182.3	363.8	740.2	1673.4	6056.5
<b>Liver cirrhosis</b>													
1995	4.7*	0.5*	8.2*	2.1	3.5	6.6	10.5	10.9	16.5	7.6	15.8	14.7	17.8
2000	6.2*	0.1*	11.2*	2.1	7.4	11.6	13.8	13.3	19.3	10.6	22.1	24.8	19.6
<b>Other medical causes</b>													
1995	97.6*	15.3*	55.9*	19.0	22.0	21.1	38.1	54.5	92.6	144.2	304.2	672.3	2303.5
2000	105.3*	15.1*	54.0*	9.1	22.7	27.7	37.0	58.0	78.9	144.4	290.2	690.5	2740.2
<b>All non-medical causes</b>													
1995	37.1*	13.7*	45.1*	33.2	50.6	44.1	44.0	54.5	43.2	45.8	69.8	115.3	333.9
2000	36.0*	14.6*	43.3*	27.9	35.9	50.8	43.1	48.6	46.9	49.8	69.7	92.6	329.7

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

## FINLAND: 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	– / 0.9	– / 0.4	–
35–69	1.6 / 9.1	0.2 / 4.2	21 years
70+	2.6 / 14	0.8 / 21	8 years
All ages	4.1 / 24	1.0 / 25	13 years

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

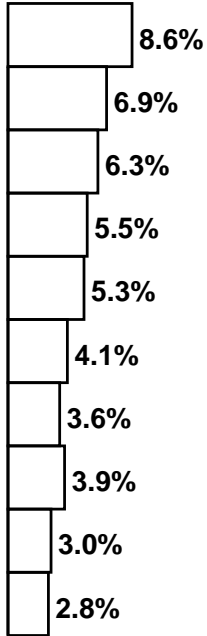
Cause	Male (by age)				Female (by age)			
	0–34	35–69	70+	All	0–34	35–69	70+	All
Lung Cancer	–/0.0	0.5/0.6	0.7/0.8	1.2/1.4	–/0.0	0.1/0.2	0.2/0.3	0.2/0.5
All Cancer	–/0.1	0.7/2.1 (32%)	1.0/3.0 (34%)	1.7/5.2	–/0.1	0.1/1.7 (5%)	0.2/3.2 (7%)	0.3/5.0
Vascular	–/0.1	0.5/3.3	0.7/6.5	1.3/9.9	–/0.0	0.1/1.1	0.3/1.0	0.3/1.1
Respiratory	–/0.0	0.2/0.4	0.6/1.8	0.8/2.3	–/0.0	0.0/0.2	0.2/1.8	0.2/2.0
All Other	–/0.8	0.2/3.2	0.2/2.6	0.4/6.6	–/0.3	0.0/1.2	0.1/5.2	0.1/6.8
All Causes	–/0.9	1.6/9.1 (17%)	2.6/14 (18%)	4.1/24	–/0.4	0.2/4.2 (5%)	0.8/21 (4%)	1.0/25

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

Cause	Male	Female	Male + Female
All Cancer	1.7 / 5.2 (33%)	0.3 / 5.0 (6%)	2.0 / 10 (20%)
All Causes	4.1 / 24 (17%)	1.0 / 25 (4%)	5.1 / 49 (10%)

1955-2000: FINLAND

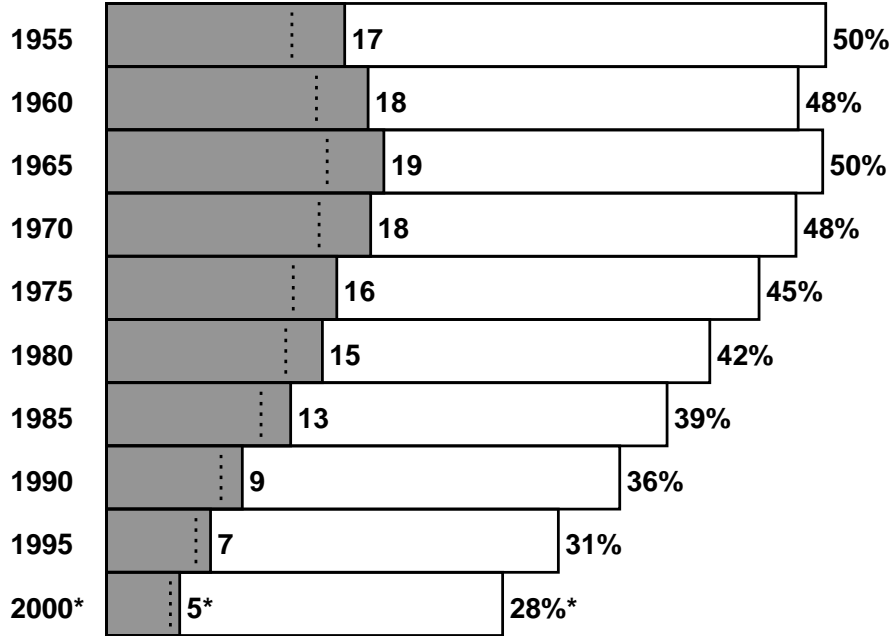
**Population risk of dying at ages 0–34**



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

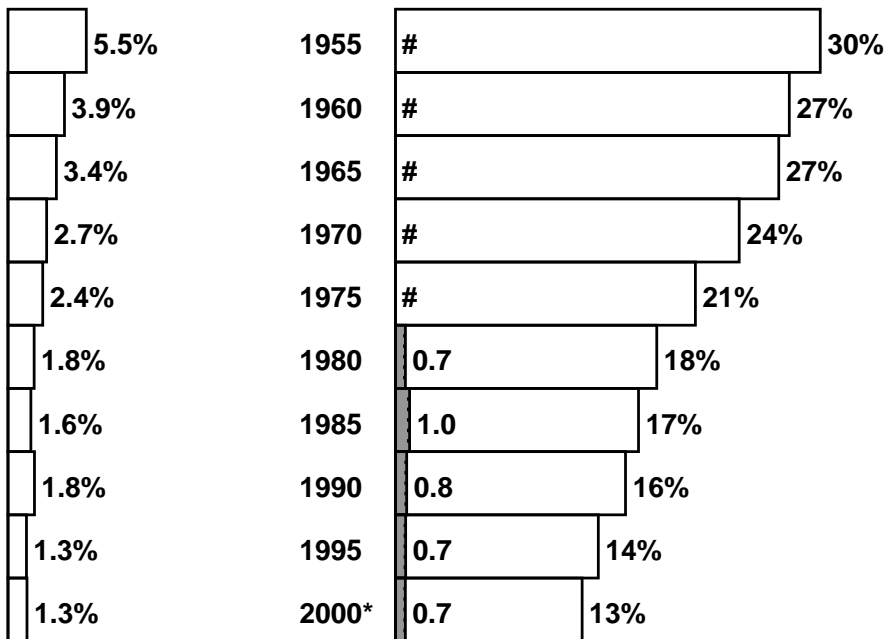
\*eg, at year 2000 male death rates, out of 100 men aged 35, 28 would die before age 70 (with 5 of these deaths attributed to smoking)

**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**



# Real risk too low to estimate reliably

## FINLAND: 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	...	...	...	...	...	...	...	...
1955	-/3.5	3.5/10 <b>(34%)</b>	0.8/6.7 <b>(12%)</b>	4.3/20	-/2.2	0.1/6.6	0.0/10	0.1/19
1960	-/2.7	4.1/11 <b>(38%)</b>	1.1/7.2 <b>(16%)</b>	5.2/21	-/1.5	0.0/6.5	0.0/11	0.0/19
1965	-/2.4	4.8/12 <b>(39%)</b>	1.7/8.5 <b>(20%)</b>	6.5/23	-/1.3	0.0/7.0	0.0/13	0.0/21
1970	-/2.1	4.9/13 <b>(38%)</b>	2.1/9.0 <b>(23%)</b>	6.9/24	-/1.0	0.0/6.7	0.0/13	0.0/20
1975	-/2.0	4.2/12 <b>(35%)</b>	2.2/9.7 <b>(23%)</b>	6.4/24	-/0.8	0.0/6.1	0.1/13 <b>(0.5%)</b>	0.1/20
1980	-/1.7	3.8/11 <b>(35%)</b>	3.0/11 <b>(27%)</b>	6.8/24	-/0.7	0.2/5.2 <b>(4%)</b>	0.4/15 <b>(3%)</b>	0.6/21
1985	-/1.4	3.4/11 <b>(32%)</b>	3.1/13 <b>(23%)</b>	6.4/25	-/0.6	0.3/4.9 <b>(6%)</b>	0.4/18 <b>(2%)</b>	0.7/23
1990	-/1.4	2.6/11 <b>(25%)</b>	2.7/13 <b>(21%)</b>	5.3/25	-/0.6	0.2/4.9 <b>(5%)</b>	0.5/20 <b>(3%)</b>	0.8/25
1995	-/1.1	2.1/9.9 <b>(22%)</b>	2.6/13 <b>(20%)</b>	4.8/24	-/0.4	0.2/4.4 <b>(5%)</b>	0.6/20 <b>(3%)</b>	0.8/25
2000	-/0.9	1.6/9.1 <b>(17%)</b>	2.6/14 <b>(18%)</b>	4.1/24	-/0.4	0.2/4.2 <b>(5%)</b>	0.8/21 <b>(4%)</b>	1.0/25

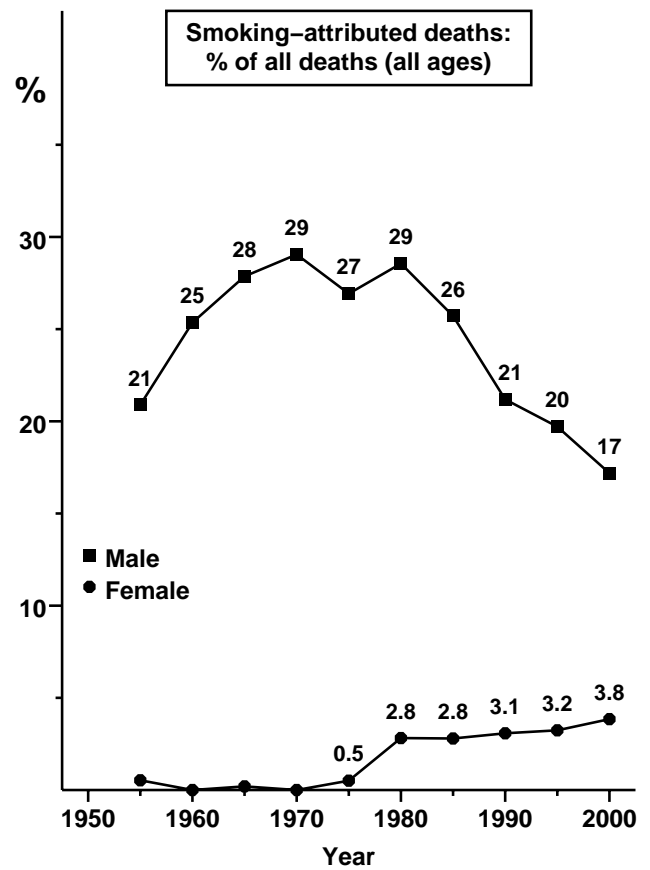
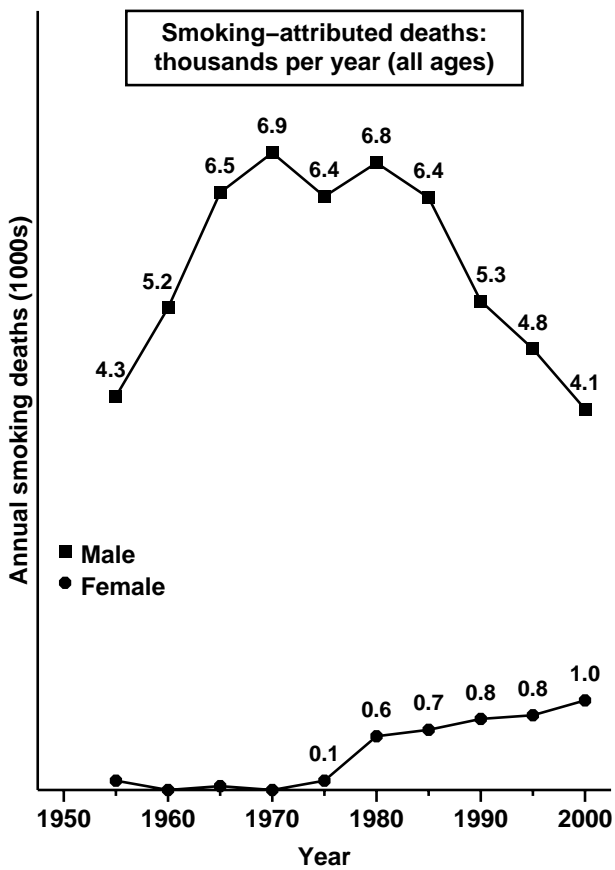
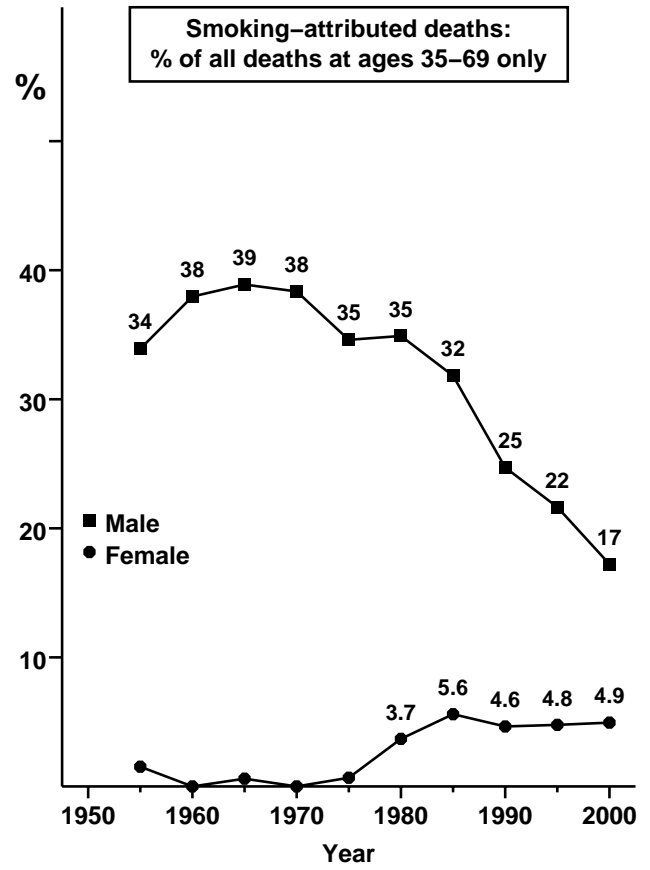
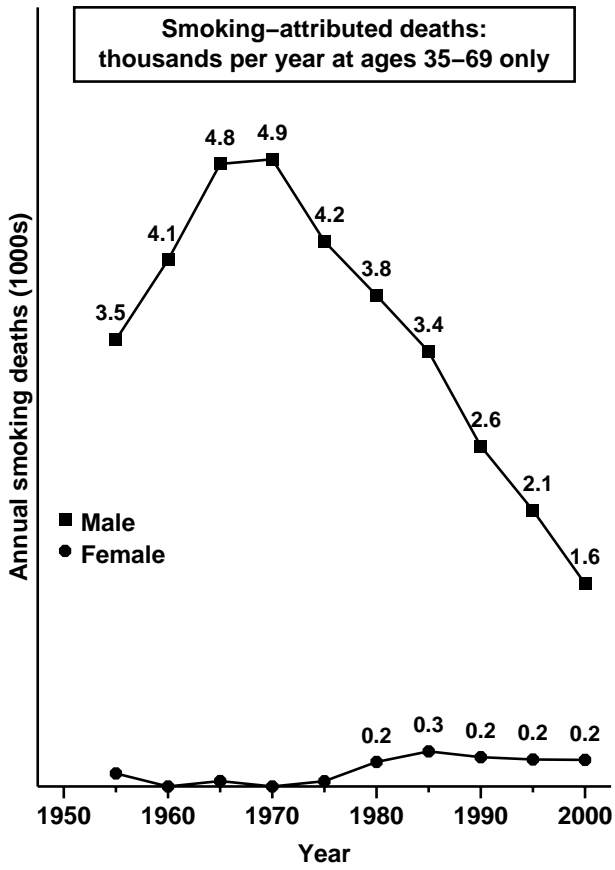
50-year total\* (thousands), mid-1950 to mid-2000: 301 / 2256

1950-2000 by age & sex:

-/104	180/553 <b>(33%)</b>	104/512 <b>(20%)</b>	284/1169	-/53	6.7/289 <b>(2%)</b>	10/745 <b>(1%)</b>	17/1087
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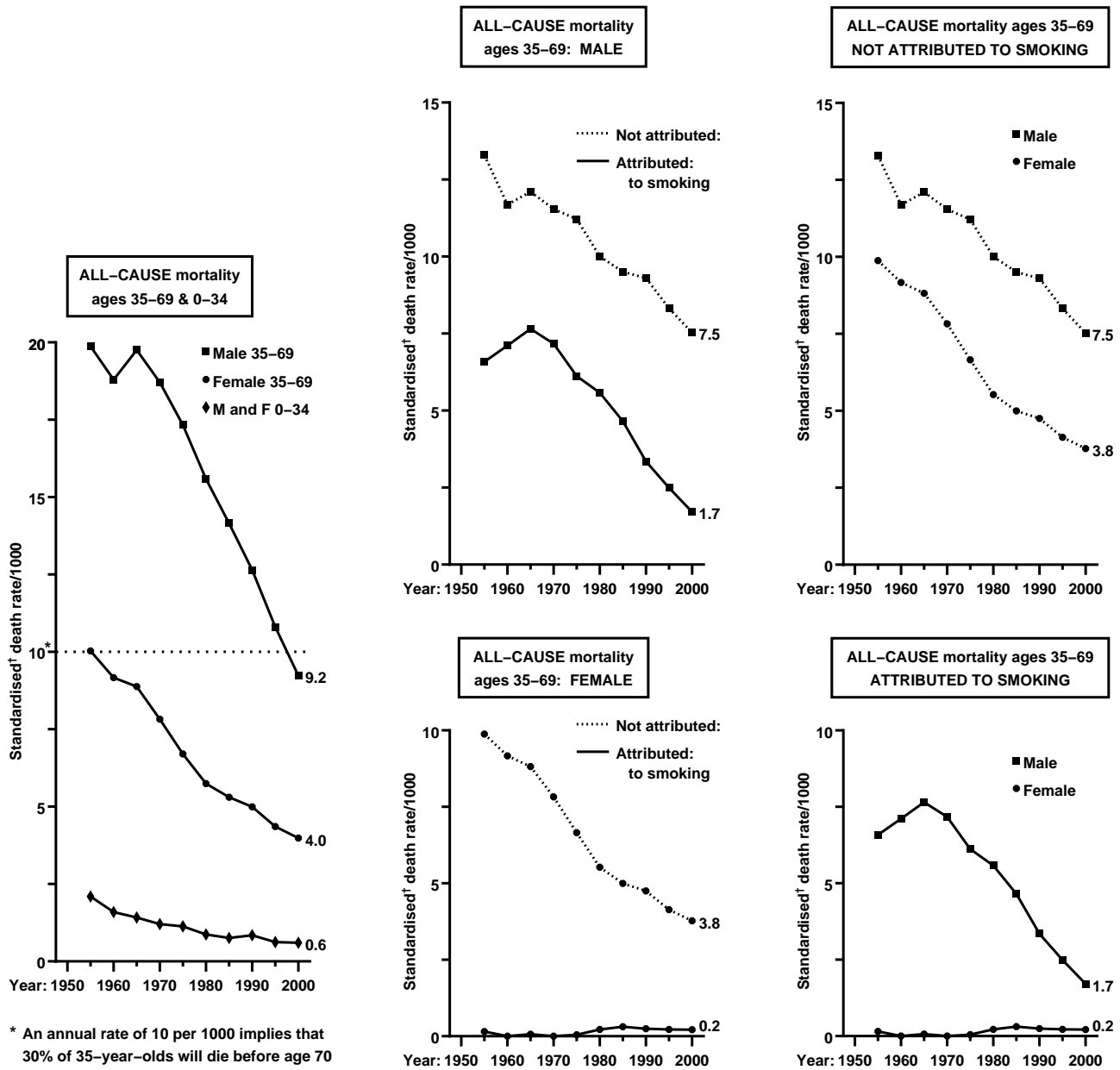
\*Estimated as 10 times the sum of the annual numbers for 1955, 1965, 1975, 1985 & 1995

1955-2000: FINLAND



**FINLAND: 1955-2000**

**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

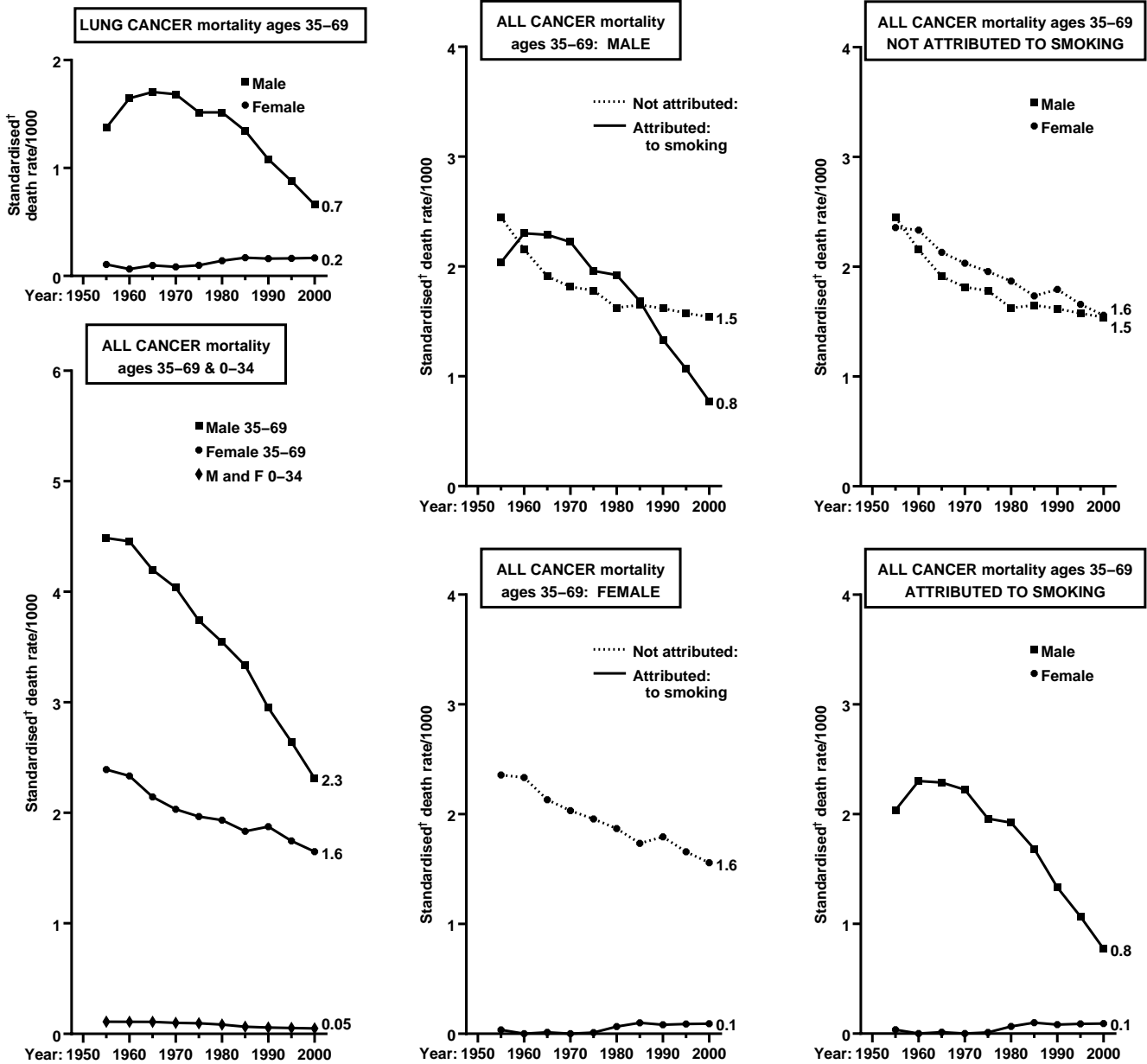
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

Year	MALE all-cause mortality (annual rate/1000, by age)								FEMALE all-cause mortality (annual rate/1000, by age)							
	Attributed to smoking?		0-34		35-69		70-79		0-34		35-69		70-79			
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No		
1950	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
1955	-	2.58	6.58	13.3	12.0	80.3	-	1.60	0.15	9.88	0.00	71.5	-	71.5		
1960	-	2.03	7.11	11.7	16.0	75.5	-	1.15	0.00	9.16	0.00	70.4	-	70.4		
1965	-	1.85	7.65	12.1	20.2	75.5	-	0.98	0.06	8.81	0.00	71.2	-	71.2		
1970	-	1.62	7.17	11.5	21.6	67.8	-	0.78	0.00	7.82	0.00	59.1	-	59.1		
1975	-	1.55	6.11	11.2	20.0	61.7	-	0.70	0.05	6.65	0.23	48.6	-	48.6		
1980	-	1.21	5.58	10.0	21.5	54.1	-	0.53	0.22	5.52	1.27	39.9	-	39.9		
1985	-	1.05	4.65	9.50	19.2	55.5	-	0.46	0.31	4.99	1.15	38.7	-	38.7		
1990	-	1.15	3.35	9.30	15.5	50.8	-	0.53	0.24	4.75	1.29	35.3	-	35.3		
1995	-	0.87	2.49	8.32	13.5	46.2	-	0.37	0.22	4.14	1.27	30.7	-	30.7		
2000	-	0.82	1.71	7.52	11.1	40.2	-	0.38	0.21	3.77	1.46	25.8	-	25.8		

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

1955-2000: FINLAND

ALL CANCER mortality rates attributed and not attributed to smoking



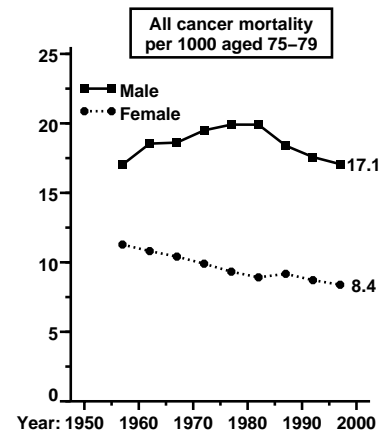
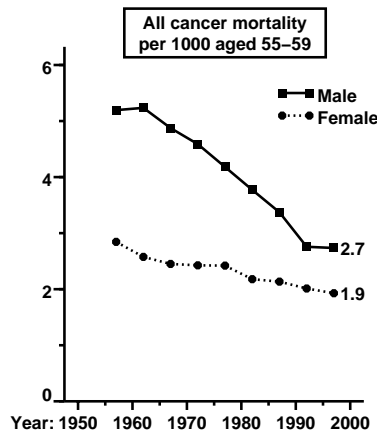
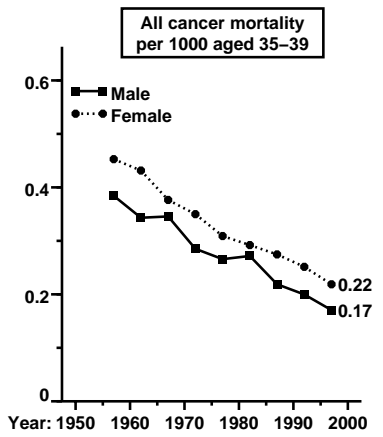
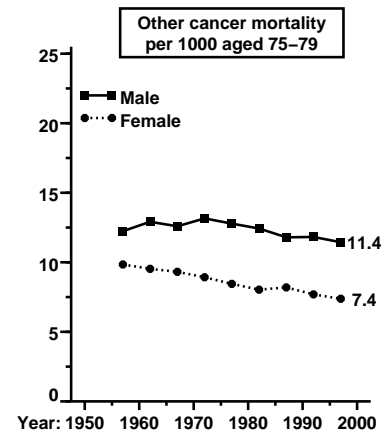
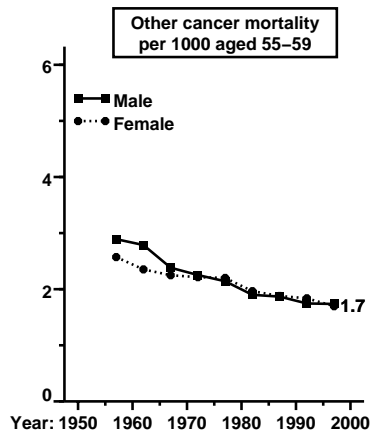
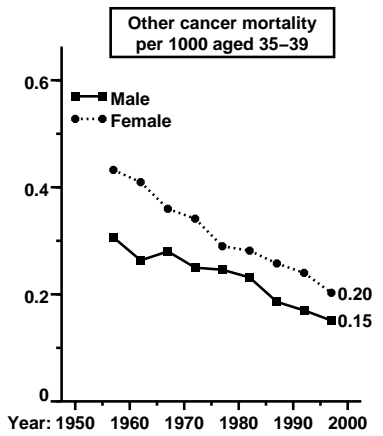
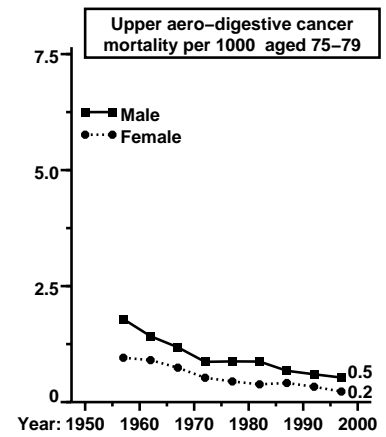
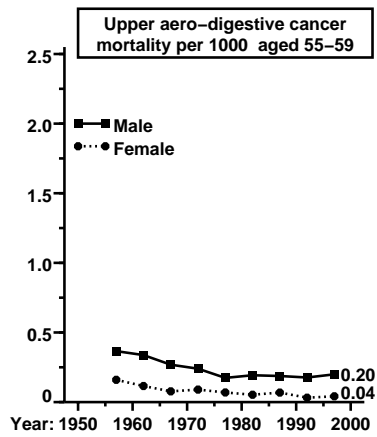
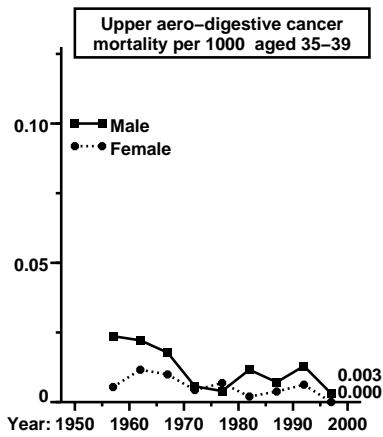
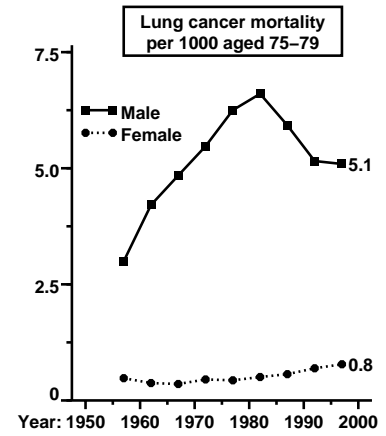
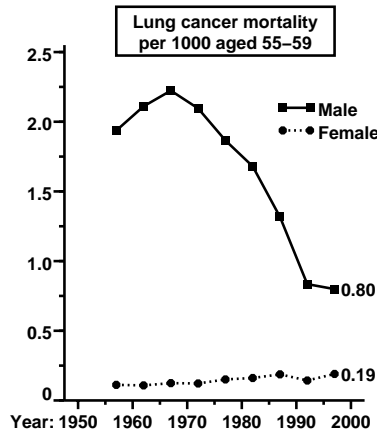
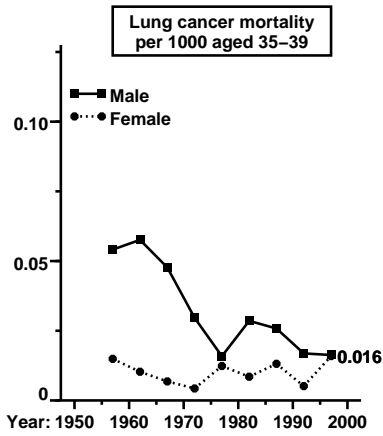
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

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	---	---	---	---	---	---	---	---	---	---	---	---				
1955	-	0.13	2.04	2.45	4.33	11.7	-	0.09	0.03	2.36	0.00	9.68				
1960	-	0.11	2.30	2.15	5.65	11.6	-	0.10	0.00	2.33	0.00	10.2				
1965	-	0.12	2.29	1.91	6.74	10.1	-	0.10	0.01	2.13	0.00	9.14				
1970	-	0.11	2.22	1.81	7.63	10.4	-	0.09	0.00	2.03	0.00	8.47				
1975	-	0.11	1.96	1.78	7.37	9.62	-	0.08	0.01	1.96	0.07	7.88				
1980	-	0.10	1.92	1.62	8.76	9.16	-	0.06	0.06	1.87	0.36	7.16				
1985	-	0.08	1.68	1.65	7.43	8.86	-	0.05	0.10	1.73	0.34	7.76				
1990	-	0.05	1.33	1.62	6.68	9.12	-	0.06	0.08	1.79	0.43	7.22				
1995	-	0.05	1.07	1.57	6.18	9.18	-	0.05	0.09	1.66	0.43	6.90				
2000	-	0.05	0.77	1.54	5.12	8.37	-	0.05	0.09	1.56	0.55	6.75				

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

**FINLAND: 1955-2000**

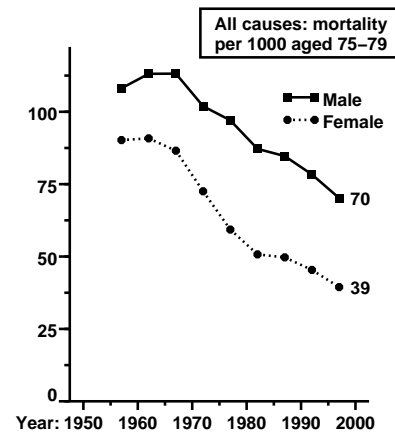
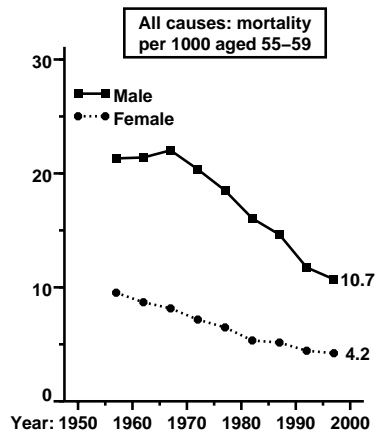
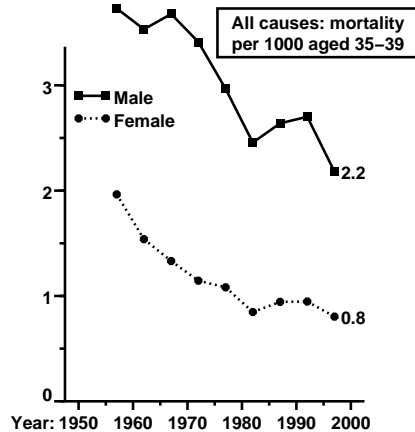
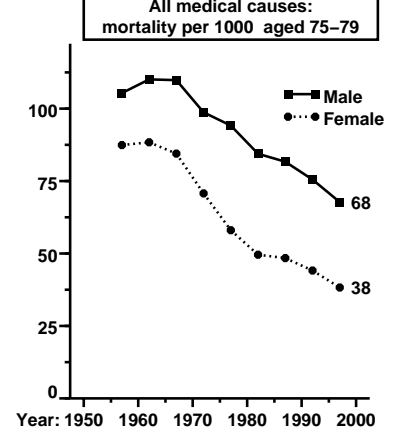
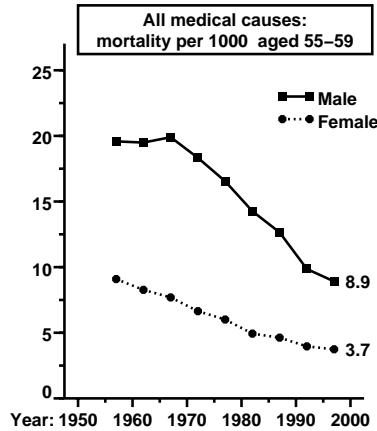
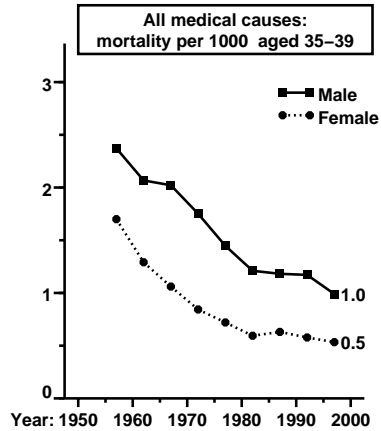
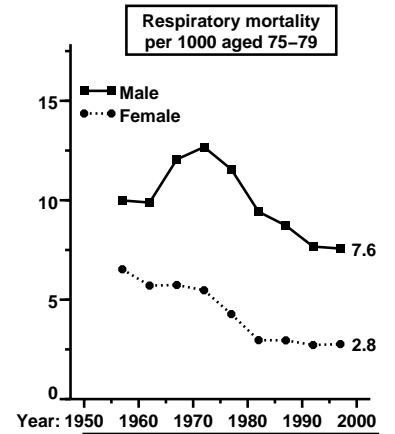
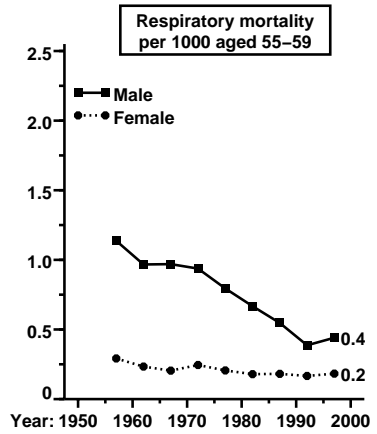
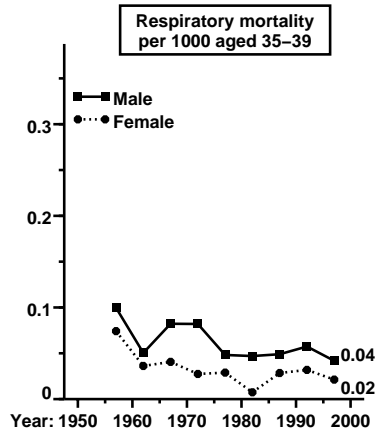
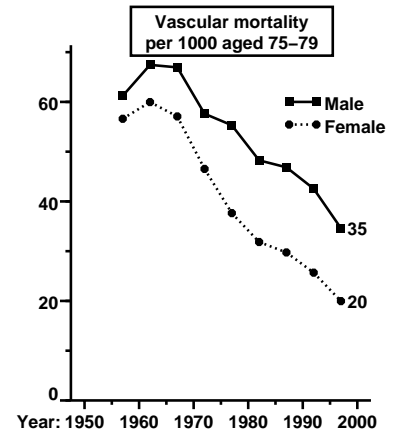
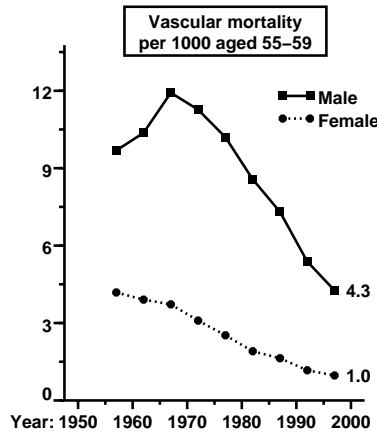
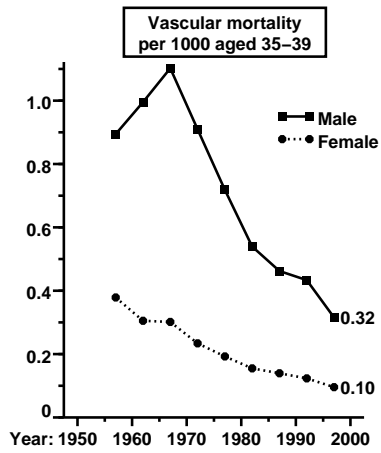
**Mortality\* trends at selected ages: 35-39, 55-59 & 75-79**



\* Annual mortality per 1000: averages of years available in 1955-59,.....,1995-99; year 2000 on pages 176-177

1955-2000: FINLAND

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



\* Annual mortality per 1000: averages of years available in 1955-59,.....,1995-99; year 2000 on pages 176-177