

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

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

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NORWAY

Raw data (pages 362–63, 364–65)

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NORWAY: 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	21676	885	5292	791.0	80.7	710.4	109.3	15.0	10.8	77.4	111.5	120.6	120.3
	F	22342	389	3121	507.8	37.2	408.4	82.9	11.9	12.8	34.0	33.3	38.2	47.0
Tuberculosis	M	29	-	3	1.0	-	0.4	-	-	-	-	-	-	-
	F	24	-	2	0.5	-	0.3	-	-	-	-	-	-	-
HIV	M	8	2	6	0.3	0.2	0.5	-	-	-	-	-	-	1.1
	F	7	2	5	0.3	0.2	0.5	-	-	0.7	-	-	0.6	-
Other infective and parasitic	M	204	6	31	7.1	0.6	4.3	2.6	-	-	1.5	-	-	-
	F	266	9	29	6.0	0.9	3.8	2.7	0.7	-	0.8	1.5	0.6	-
ALL CANCER	M	5532	59	1848	210.9	5.3	255.7	2.6	5.0	2.0	6.6	5.0	4.8	11.1
	F	4915	55	1594	146.4	5.0	207.2	5.5	4.0	2.1	3.9	-	4.3	15.1
Mouth and pharynx cancer	M	88	3	52	3.8	0.2	6.8	-	-	-	-	-	0.6	1.1
	F	52	1	23	1.7	0.1	2.9	-	-	0.7	-	-	-	-
Oesophagus cancer	M	105	-	45	4.2	-	6.0	-	-	-	-	-	-	-
	F	40	-	11	1.1	-	1.5	-	-	-	-	-	-	-
Stomach cancer	M	266	3	79	10.1	0.2	11.3	-	-	-	-	-	-	1.7
	F	197	-	41	5.0	-	5.4	-	-	-	-	-	-	-
Colorectal cancer	M	777	2	233	29.2	0.2	33.7	-	-	-	-	-	0.6	0.6
	F	817	2	201	21.7	0.2	26.8	-	-	-	-	-	-	1.2
Liver cancer	M	51	-	13	1.9	-	2.0	-	-	-	-	-	-	-
	F	32	1	5	0.9	0.1	0.7	0.7	-	-	-	-	-	-
Pancreas cancer	M	262	1	97	10.0	0.1	12.5	-	-	-	-	-	-	0.6
	F	309	1	62	8.2	0.1	8.5	-	-	-	-	-	-	0.6
Larynx cancer	M	33	-	17	1.4	-	2.5	-	-	-	-	-	-	-
	F	8	-	2	0.2	-	0.3	-	-	-	-	-	-	-
Lung cancer	M	1121	-	478	44.9	-	66.5	-	-	-	-	-	-	-
	F	652	1	295	23.0	0.1	39.3	-	-	-	-	-	-	0.6
Malignant melanoma	M	147	2	90	6.2	0.2	11.1	-	-	-	-	-	-	1.1
	F	66	2	27	2.2	0.2	3.1	-	-	-	-	-	-	1.2
Female breast cancer	F	761	7	320	24.5	0.6	39.6	-	-	-	-	-	-	4.1
Cervix cancer	F	99	4	54	3.6	0.3	6.2	-	-	-	-	-	1.2	1.2
Other uterine cancer	F	124	-	35	3.5	-	4.4	-	-	-	-	-	-	-
Ovarian cancer	F	295	-	124	9.7	-	16.1	-	-	-	-	-	-	-
Prostate cancer	M	1094	-	172	38.0	-	27.2	-	-	-	-	-	-	-
Bladder cancer	M	265	1	46	9.2	0.1	7.0	-	-	-	-	-	-	0.6
	F	123	-	16	2.8	-	2.4	-	-	-	-	-	-	-
Other and ill-defined cancer sites	M	863	31	359	34.2	2.8	46.8	2.0	2.5	1.4	2.2	2.9	3.0	5.6
	F	922	22	270	26.7	2.1	35.4	2.7	3.3	0.7	2.3	-	1.2	4.1
Hodgkin's disease	M	9	1	5	0.4	0.1	0.5	-	-	-	0.7	-	-	-
	F	9	2	1	0.2	0.2	0.1	-	-	-	-	-	0.6	0.6
Myeloma and non-Hodgkin lymphomas	M	297	4	111	11.5	0.4	14.9	0.7	-	-	0.7	1.4	-	-
	F	270	2	70	7.4	0.2	9.7	-	-	-	0.8	-	-	0.6
Leukaemia	M	154	11	51	6.0	1.1	7.0	-	2.5	0.7	2.9	0.7	0.6	-
	F	139	10	37	4.1	0.9	4.8	2.1	0.7	0.7	0.8	-	1.2	1.2
Diabetes	M	316	9	73	11.5	0.8	9.5	-	-	-	0.7	-	2.4	2.2
	F	339	3	37	7.3	0.3	5.2	-	-	-	-	-	1.2	0.6
ALL VASCULAR DISEASE	M	8659	30	1574	302.2	2.5	225.0	0.7	-	0.7	0.7	1.4	3.6	10.6
	F	9532	19	597	184.8	1.8	82.2	0.7	-	0.7	3.1	3.0	-	5.2
Rheumatic heart disease and fever	M	34	-	7	1.2	-	1.0	-	-	-	-	-	-	-
	F	64	-	5	1.3	-	0.8	-	-	-	-	-	-	-
Hypertensive disease	M	155	-	46	5.8	-	6.7	-	-	-	-	-	-	-
	F	191	1	13	3.9	0.1	1.7	-	-	-	0.8	-	-	-
Ischaemic heart disease	M	4398	10	990	157.3	0.8	140.5	-	-	-	-	0.7	0.6	4.5
	F	3784	1	302	77.1	0.1	41.9	-	-	-	-	-	-	0.6
Pulmonary embolism and other venous	M	76	4	15	2.7	0.3	2.2	-	-	-	-	-	1.2	1.1
	F	107	3	15	2.6	0.2	2.0	-	-	-	-	-	-	1.7
Cerebrovascular disease	M	1851	8	252	62.7	0.7	36.0	-	-	0.7	0.7	-	0.6	2.8
	F	2630	4	139	49.5	0.4	18.7	-	-	-	-	1.5	-	1.2
Other vascular disease	M	2145	8	264	72.5	0.7	38.5	0.7	-	-	-	0.7	1.2	2.2
	F	2756	10	123	50.4	1.0	17.2	0.7	-	0.7	2.3	1.5	-	1.7
Chronic obstructive pulmonary disease	M	945	2	156	33.2	0.2	24.8	0.7	-	-	-	0.7	-	-
	F	781	1	166	20.6	0.1	23.3	-	0.7	-	-	-	-	-
Other respiratory disease	M	1107	6	73	35.8	0.5	10.5	2.6	-	-	-	-	1.2	-
	F	1551	2	37	26.7	0.2	5.0	0.7	0.7	-	-	-	-	-
Peptic ulcer	M	113	-	26	4.0	-	3.8	-	-	-	-	-	-	-
	F	148	-	12	3.0	-	1.7	-	-	-	-	-	-	-
Liver cirrhosis	M	139	1	110	6.2	0.1	12.8	-	-	-	-	-	0.6	-
	F	85	1	57	3.4	0.1	6.9	-	-	-	-	-	-	0.6
Renal disease	M	210	2	15	6.8	0.2	2.4	-	-	-	0.7	-	-	0.6
	F	182	-	9	3.4	-	1.1	-	-	-	-	-	-	-
Pregnancy, birth	F	2	2	-	0.1	0.2	-	-	-	-	-	0.7	-	0.6
Congenital and perinatal causes	M	135	120	13	6.8	11.1	1.3	73.5	1.3	-	-	0.7	1.2	1.1
	F	106	90	12	5.5	8.7	1.3	53.4	0.7	1.4	-	1.5	3.1	1.2
Ill-defined causes	M	913	52	268	34.3	4.9	34.0	14.3	0.6	-	3.7	8.6	2.4	4.5
	F	1083	16	83	21.2	1.5	11.1	8.2	0.7	-	-	0.7	0.6	0.6
Other medical causes	M	1940	195	552	72.1	17.3	66.0	6.5	0.6	2.0	12.5	21.4	42.8	35.1
	F	2379	58	310	53.2	5.5	39.4	5.5	-	0.7	4.6	10.4	7.4	9.9
ALL NON-MEDICAL CAUSES	M	1426	401	544	58.6	37.1	59.4	5.9	7.5	6.1	50.8	73.6	61.5	54.0
	F	942	131	171	25.4	12.7	19.3	6.2	4.6	7.1	21.7	15.6	20.3	13.3
Road traffic accidents	M	256	140	81	11.4	13.2	8.5	4.6	2.5	-	22.1	30.0	19.9	13.4
	F	94	38	27	3.7	3.7	2.7	1.4	1.3	2.1	8.5	4.4	5.5	2.9
Fire	M	40	10	18	1.7	0.9	1.9	-	-	0.7	0.7	2.9	1.2	1.1
	F	16	6	2	0.5	0.6	0.3	-	0.7	0.7	0.8	-	0.6	1.2
Suicide	M	409	154	207	18.0	14.3	21.5	-	-	2.7	20.6	30.0	24.7	21.7
	F	131	40	74	5.7	3.7	8.1	-	-	-	6.2	4.4	8.6	7.0
Homicide	M	29	11	16	1.3	1.0	1.7	0.7	1.3	-	1.5	0.7	1.2	1.7
	F	24	15	7	1.1	1.5	0.7	1.4	0.7	0.7	1.5	3.0	1.8	1.2
POPULATION:			M=male											
(1000s; UN, 2004 revision)			F=female											
					2231.3	1082.8	939.2	153.7	160.0	148.1	135.7	139.9	165.8	179.6
					2271.1	1037.3	920.8	146.0	151.5	140.8	129.3	135.0	162.2	172.5

2000: NORWAY

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			
155.4	206.6	276.1	466.1	713.9	1132.4	2022.4	3381.4	5693.8	13868.5	M	ALL CAUSES	001-999/A00-Y89
76.5	101.9	177.3	288.7	461.7	709.7	1043.2	1909.2	3309.4	10765.7	F		
-	-	-	0.6	-	-	2.5	3.9	10.4	24.5	M	Tuberculosis	010-018, 137/ A15-A19, B90
-	-	-	-	-	-	2.3	4.4	4.3	10.7	F		
1.8	0.6	-	0.6	0.8	-	-	-	-	-	M	HIV	279.5, 279.6/B20-B24
0.6	0.6	0.7	-	1.7	-	-	-	-	-	F		
1.8	0.6	1.3	3.8	0.8	6.6	14.9	38.0	51.8	157.5	M	Other infective and parasitic	Rest of 001-139/rest of A00-B99 excl A33,A34
-	1.3	0.7	2.6	5.9	10.6	5.7	21.0	41.3	130.9	F		
24.1	39.2	76.6	175.6	276.2	440.9	757.5	1124.5	1627.2	2548.9	M	ALL CANCER	140-208/C00-C97
29.0	49.0	98.3	153.6	260.7	394.1	465.3	726.5	866.4	1387.4	F		
-	1.2	1.9	7.0	10.7	12.0	14.9	13.1	14.8	19.9	M	Mouth and pharynx cancer	140-149/C00-C14
-	0.6	2.7	1.3	5.0	6.4	4.6	3.3	4.3	16.1	F		
-	0.6	3.9	6.3	4.1	10.9	16.2	26.2	25.1	35.2	M	Oesophagus cancer	150/C15
-	-	-	2.6	0.8	2.1	4.6	4.4	9.8	12.3	F		
1.2	1.2	3.2	5.7	11.5	17.5	38.6	73.4	75.4	117.7	M	Stomach cancer	151/C16
-	3.2	2.0	4.0	3.4	10.6	14.8	28.8	29.3	78.9	F		
1.8	1.2	10.9	14.6	35.4	62.4	109.5	162.5	244.1	386.9	M	Colorectal cancer	153, 154/C18-C21
1.9	4.5	12.0	17.2	31.1	58.3	62.6	91.9	158.5	294.8	F		
-	-	-	0.6	2.5	2.2	8.7	9.2	19.2	27.5	M	Liver cancer	155.0/C22 excl C221
-	-	-	-	0.8	2.1	2.3	8.9	6.5	9.2	F		
1.2	2.5	2.6	14.6	21.4	16.4	28.6	51.1	96.2	91.7	M	Pancreas cancer	157/C25
0.6	0.6	2.7	5.3	8.4	18.0	23.9	57.6	71.7	98.0	F		
-	0.6	1.3	-	0.8	8.8	6.2	7.9	7.4	7.6	M	Larynx cancer	161/C32
-	-	-	-	-	1.1	1.1	2.2	3.3	0.8	F		
1.2	7.4	20.6	45.7	80.0	121.4	189.1	264.7	360.9	301.2	M	Lung cancer	162/C33, C34
1.9	7.0	12.7	26.5	57.2	72.0	97.8	153.9	121.6	80.4	F		
2.4	3.1	3.2	15.9	14.0	20.8	18.7	17.0	29.6	33.6	M	Malignant melanoma	172/C43
2.5	1.9	4.0	0.7	5.0	5.3	2.3	12.2	8.7	13.8	F		
6.2	14.6	24.1	38.4	60.6	58.3	75.1	94.1	110.7	189.1	F	Female breast cancer	174/C50
1.9	5.1	8.7	6.6	3.4	8.5	9.1	12.2	14.1	13.0	F	Cervix cancer	180/C53
-	-	2.0	4.6	10.1	7.4	6.8	15.5	23.9	40.6	F	Other uterine cancer	179, 182/C54, C55
3.7	2.5	4.7	15.2	18.5	38.1	29.6	41.0	63.0	58.2	F	Ovarian cancer	183/C56, C570-C574
-	-	2.6	7.0	15.7	47.0	118.2	205.8	340.2	818.0	M	Prostate cancer	185/C61
-	0.6	-	1.9	8.2	13.1	24.9	41.9	91.7	189.6	M	Bladder cancer	188/C67
-	-	-	0.7	2.5	2.1	11.4	17.7	23.9	52.8	F		
8.8	14.1	19.3	40.6	53.6	75.5	115.7	169.1	213.0	305.8	M	Other and ill-defined cancer sites	Rest of 140-199/ rest of C00-C80, C97
9.3	7.6	17.4	21.2	37.0	64.6	91.0	132.9	150.9	284.1	F		
1.2	0.6	-	0.6	-	1.1	-	-	1.5	3.1	M	Hodgkin's disease	201/C81
-	-	-	0.7	-	-	-	1.1	1.1	3.1	F		
4.1	4.3	5.1	11.4	12.4	19.7	47.3	59.0	72.5	134.6	M	Myeloma and non- Hodgkin lymphomas	200, 202-203/ C82-C90, C96
0.6	-	3.3	5.3	9.3	27.5	21.6	33.2	46.7	95.7	F	Leukaemia	204-208/C91-C95
2.4	1.8	1.9	3.8	5.8	12.0	21.1	23.6	35.5	76.5	M		
0.6	1.3	2.0	3.3	7.6	11.7	6.8	15.5	18.5	46.7	F		
2.4	5.5	3.2	5.7	9.9	19.7	19.9	69.5	84.3	189.6	M	Diabetes	250/E10-E14
0.6	-	2.0	2.6	4.2	7.4	19.3	29.9	55.4	169.2	F		
11.8	38.6	59.2	126.8	195.4	391.7	751.2	1349.9	2476.3	6652.9	M	ALL VASCULAR DISEASE	390-459/I00-I99
8.6	12.1	22.1	49.7	73.2	137.7	271.9	653.4	1393.1	5392.8	F		
-	-	-	0.6	1.6	-	5.0	9.2	8.9	21.4	M	Rheumatic heart disease and fever	390-398/I00-I09
-	-	-	-	-	-	2.3	8.9	8.7	32.9	F		
0.6	1.2	0.6	3.8	3.3	16.4	21.1	27.5	32.5	100.9	M	Hypertensive disease	401-405/I10-I15
-	0.6	-	2.0	2.5	4.2	2.3	23.3	22.8	103.4	F		
5.9	24.5	40.5	82.4	129.4	244.0	456.5	732.6	1312.1	2984.7	M	Ischaemic heart disease	410-414/I20-I25
3.7	4.5	7.4	25.8	40.4	76.3	135.4	342.2	621.1	1990.8	F		
0.6	-	-	1.3	1.6	4.4	7.5	14.4	20.7	48.9	M	Pulmonary embolism and other venous	415.1, 451-453/ I26, I80-I82
0.6	-	1.3	1.3	2.5	1.1	6.8	13.3	25.0	41.3	F		
4.1	4.9	12.9	19.0	29.7	46.0	135.6	260.8	559.2	1550.5	M	Cerebrovascular disease	430-438/I60-I69
3.1	3.2	8.7	12.6	15.1	25.4	62.6	144.0	386.5	1532.2	F		
0.6	8.0	5.1	19.7	29.7	81.0	125.6	305.4	542.9	1946.5	M	Other vascular disease	Rest of 390-459/ rest of I00-I99
1.2	3.8	4.7	7.9	12.6	27.5	62.6	121.8	329.0	1692.2	F		
1.2	1.2	3.2	3.2	14.0	36.1	114.4	205.8	331.4	620.8	M	Chronic obstructive pulmonary disease	490-496/ J40-J47, J67
0.6	1.9	2.7	13.9	24.4	42.4	77.4	126.2	190.0	248.9	F		
1.2	2.5	0.6	4.4	12.4	15.3	37.3	93.1	218.9	1237.0	M	Other respiratory disease	Rest of 460-519/ rest of J00-J98
0.6	1.9	0.7	3.3	4.2	9.5	14.8	48.7	141.2	1024.5	F		
0.6	-	-	1.9	5.8	3.3	14.9	14.4	29.6	85.6	M	Peptic ulcer	531-533/K25-K27
-	0.6	-	-	1.7	4.2	5.7	12.2	22.8	79.6	F		
4.1	4.3	9.0	18.4	19.0	19.7	14.9	19.7	8.9	10.7	M	Liver cirrhosis	571/K70, K74
-	2.5	2.7	9.9	13.5	11.7	8.0	7.8	8.7	9.2	F		
-	-	0.6	-	1.6	4.4	10.0	19.7	57.7	212.5	M	Renal disease	580-590/N00-N19
-	-	0.7	2.0	0.8	-	4.6	6.6	32.6	104.9	F		
-	-	-	-	-	-	-	-	-	-	F	Pregnancy, birth	630-676/A34,000-099
0.6	1.2	0.6	3.2	2.5	1.1	-	-	3.0	-	M	Congenital and perinatal causes	740-779/A33, P00-P96, Q00-Q99
1.2	0.6	1.3	1.3	1.7	3.2	-	3.3	-	0.8	F	Ill-defined causes	780-799/R00-R99
9.4	15.3	13.5	26.0	45.3	62.4	65.9	118.0	201.2	561.2	M		
1.2	3.8	4.0	6.0	13.5	15.9	33.0	43.2	103.1	650.8	F		
45.9	40.5	48.3	45.0	64.3	76.6	141.8	222.8	454.1	1094.8	M	Other medical causes	Rest of 001-799/ rest of A00-R99
18.5	14.0	20.1	25.2	40.4	49.8	108.1	178.3	360.5	1162.3	F		
50.6	57.0	59.8	50.7	66.0	54.7	77.1	102.2	139.1	472.5	M	ALL NON- MEDICAL CAUSES	E800-E999/V01-Y89
15.4	13.4	21.4	18.5	16.0	23.3	27.3	47.6	90.1	393.6	F		
12.4	8.0	7.7	5.7	10.7	6.6	8.7	14.4	10.4	26.0	M	Road traffic accidents	E810-E819, E826-E829/ part of V01-V99, Y850
4.3	2.5	4.7	2.6	1.7	1.1	2.3	6.6	14.1	7.7	F		
1.2	1.8	0.6	4.4	1.6	3.3	-	7.9	-	9.2	M	Fire	E890-E899/X00-X09
-	-	-	-	-	1.1	1.1	-	3.3	3.8	F		
23.0	23.9	28.3	18.4	20.6	16.4	19.9	27.5	13.3	27.5	M	Suicide	E950-E959/X60-X84
8.0	7.0	10.7	6.6	6.7	8.5	9.1	5.5	8.7	3.1	F		
1.2	2.5	2.6	1.3	0.8	-	3.7	1.3	-	1.5	M	Homicide	E960-E969/ X85-X99, Y00-Y09
1.2	0.6	0.7	0.7	0.8	-	1.1	1.1	1.1	-	F		
169.9	163.1	155.4	157.7	121.3	91.4	80.4	76.3	67.6	65.4	M	POPULATION	
162.1	157.0	149.5	151.0	118.9	94.4	87.9	90.3	92.1	130.6	F	(1000s; UN, 2004 revision)	

NORWAY: 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	846	60	1	3	56	7	3	34	3	329	410
35-69	Sm.	1342	610	433	59	118	112	19	426	-	175	-
	Total	5941 (23%)	1811 (34%)	492 (88%)	116 (51%)	1203 (10%)	162 (69%)	108 (18%)	2310 (18%)	85	938 (19%)	527
70+	Sm.	2185	847	528	64	255	451	98	611	-	178	-
	Total	16237 (13%)	3708 (23%)	609 (87%)	131 (49%)	2968 (9%)	712 (63%)	1368 (7%)	7672 (8%)	42	2258 (8%)	477
Any age	Sm.	3527	1457	961	123	373	563	117	1037	-	353	-
	Total	23024 (15%)	5579 (26%)	1102 (87%)	250 (49%)	4227 (9%)	881 (64%)	1479 (8%)	10016 (10%)	130	3525 (10%)	1414
2000												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	885	59	0	3	56	2	6	30	1	386	401
35-69	Sm.	1160	583	415	56	112	101	12	274	-	190	-
	Total	5292 (22%)	1848 (32%)	478 (87%)	114 (49%)	1256 (9%)	156 (65%)	73 (16%)	1574 (17%)	110	987 (19%)	544
70+	Sm.	2199	865	557	53	255	507	77	554	-	196	-
	Total	15499 (14%)	3625 (24%)	643 (87%)	109 (49%)	2873 (9%)	787 (64%)	1028 (7%)	7055 (8%)	28	2495 (8%)	481
Any age	Sm.	3359	1448	972	109	367	608	89	828	-	386	-
	Total	21676 (15%)	5532 (26%)	1121 (87%)	226 (48%)	4185 (9%)	945 (64%)	1107 (8%)	8659 (10%)	139	3868 (10%)	1426

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	2155.6	1080.3	873.4	162.8	156.6	160.4	124.9	95.6	86.6	86.5	83.2	60.6	58.1
2000	2231.3	1082.8	939.2	169.9	163.1	155.4	157.7	121.3	91.4	80.4	76.3	67.6	65.4
NUMBER OF DEATHS (Source: WHO)													
All causes													
1995	23024	846	5941	228	290	549	622	823	1243	2186	3356	4154	8727
2000	21676	885	5292	264	337	429	735	866	1035	1626	2580	3849	9070
Lung cancer													
1995	1102	1	492	1	5	23	57	68	127	211	254	200	155
2000	1121	-	478	2	12	32	72	97	111	152	202	244	197
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	903.0*	76.0*	855.6*	140.0	185.2	342.3	498.0	860.9	1435.3	2527.2	4033.7	6854.8	15020.7
2000	791.0*	80.7*	710.4*	155.4	206.6	276.1	466.1	713.9	1132.4	2022.4	3381.4	5693.8	13868.5
All cancer													
1995	224.5*	5.5*	266.6*	22.1	30.7	93.5	164.9	279.3	453.8	822.0	1201.9	1823.4	2759.0
2000	210.9*	5.3*	255.7*	24.1	39.2	76.6	175.6	276.2	440.9	757.5	1124.5	1627.2	2548.9
Lung cancer													
1995	47.0*	0.1*	75.1*	0.6	3.2	14.3	45.6	71.1	146.7	243.9	305.3	330.0	266.8
2000	44.9*	-	66.5*	1.2	7.4	20.6	45.7	80.0	121.4	189.1	264.7	360.9	301.2
Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)													
1995	10.8*	0.3*	16.9*	1.2	1.9	5.0	15.2	22.0	24.2	48.6	49.3	66.0	86.1
2000	9.4*	0.2*	15.4*	-	2.5	7.1	13.3	15.7	31.7	37.3	47.2	47.3	62.7
Other cancer													
1995	166.8*	5.1*	174.7*	20.3	25.5	74.2	104.1	186.2	282.9	529.5	847.4	1427.4	2406.2
2000	156.7*	5.1*	173.9*	23.0	29.4	48.9	116.7	180.5	287.7	531.1	812.6	1218.9	2185.0
Chronic obstructive pulmonary disease (COPD)													
1995	33.2*	0.6*	25.4*	0.6	0.6	3.1	8.0	18.8	50.8	96.0	195.9	336.6	593.8
2000	33.2*	0.2*	24.8*	1.2	1.2	3.2	3.2	14.0	36.1	114.4	205.8	331.4	620.8
Other respiratory disease													
1995	52.7*	0.3*	16.5*	1.2	1.3	3.7	4.8	15.7	27.7	61.3	155.0	410.9	1704.0
2000	35.8*	0.5*	10.5*	1.2	2.5	0.6	4.4	12.4	15.3	37.3	93.1	218.9	1237.0
Vascular disease													
1995	385.1*	3.0*	346.7*	20.3	43.4	91.6	172.9	327.4	629.3	1142.2	1838.9	3257.4	7173.8
2000	302.2*	2.5*	225.0*	11.8	38.6	59.2	126.8	195.4	391.7	751.2	1349.9	2476.3	6652.9
Liver cirrhosis													
1995	6.1*	0.3*	11.4*	2.5	5.1	6.9	10.4	17.8	21.9	15.0	21.6	29.7	10.3
2000	6.2*	0.1*	12.8*	4.1	4.3	9.0	18.4	19.0	19.7	14.9	19.7	8.9	10.7
Other medical causes													
1995	141.1*	29.5*	126.5*	46.1	58.7	68.6	83.3	139.1	188.2	301.7	520.4	826.7	2278.8
2000	144.0*	35.0*	122.2*	62.4	63.8	67.6	86.9	131.1	174.0	269.9	486.2	892.0	2325.7
All non-medical causes													
1995	60.5*	36.8*	62.3*	47.3	45.3	74.8	53.6	62.8	63.5	89.0	99.8	170.0	500.9
2000	58.6*	37.1*	59.4*	50.6	57.0	59.8	50.7	66.0	54.7	77.1	102.2	139.1	472.5

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

1995, 2000: NORWAY

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	364	58	0	0	58	4	3	23	1	178	97
35-69	Sm.	534	237	194	10	33	88	9	131	-	69	-
	Total	3272	1664	261	23	1380	141	50	776	45	406	190
		(16%)	(14%)	(74%)	(43%)	(2%)	(62%)	(18%)	(17%)		(17%)	
70+	Sm.	977	220	159	19	42	226	66	338	-	127	-
	Total	18522	3070	246	63	2761	442	1930	9052	28	3427	573
		(5%)	(7%)	(65%)	(30%)	(2%)	(51%)	(3%)	(4%)		(4%)	
Any age	Sm.	1511	457	353	29	75	314	75	469	-	196	-
	Total	22158	4792	507	86	4199	587	1983	9851	74	4011	860
		(7%)	(10%)	(70%)	(34%)	(2%)	(53%)	(4%)	(5%)		(5%)	
2000												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	389	55	1	1	53	1	2	19	1	180	131
35-69	Sm.	597	276	226	16	34	109	7	111	-	94	-
	Total	3121	1594	295	36	1263	166	37	597	57	499	171
		(19%)	(17%)	(77%)	(44%)	(3%)	(66%)	(19%)	(19%)		(19%)	
70+	Sm.	1513	365	270	26	69	377	75	485	-	211	-
	Total	18832	3266	356	63	2847	614	1512	8916	27	3857	640
		(8%)	(11%)	(76%)	(41%)	(2%)	(61%)	(5%)	(5%)		(5%)	
Any age	Sm.	2110	641	496	42	103	486	82	596	-	305	-
	Total	22342	4915	652	100	4163	781	1551	9532	85	4536	942
		(9%)	(13%)	(76%)	(42%)	(2%)	(62%)	(5%)	(6%)		(7%)	

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	2203.9	1029.9	864.3	156.0	149.6	152.3	121.1	97.0	91.5	96.8	104.2	88.6	116.9
2000	2271.1	1037.3	920.8	162.1	157.0	149.5	151.0	118.9	94.4	87.9	90.3	92.1	130.6
NUMBER OF DEATHS (Source: WHO)													
All causes													
1995	22158	364	3272	107	174	296	336	445	699	1215	2215	3266	13041
2000	22342	389	3121	124	160	265	436	549	670	917	1724	3048	14060
Lung cancer													
1995	507	-	261	3	16	27	30	39	49	97	86	84	76
2000	652	1	295	3	11	19	40	68	68	86	139	112	105
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	540.3*	34.6*	447.8*	68.6	116.3	194.4	277.5	458.8	763.9	1255.2	2125.7	3686.2	11155.7
2000	507.8*	37.2*	408.4*	76.5	101.9	177.3	288.7	461.7	709.7	1043.2	1909.2	3309.4	10765.7
All cancer													
1995	151.4*	5.4*	226.0*	32.1	64.2	109.7	164.3	274.2	403.3	534.1	652.6	891.6	1368.7
2000	146.4*	5.0*	207.2*	29.0	49.0	98.3	153.6	260.7	394.1	465.3	726.5	866.4	1387.4
Lung cancer													
1995	18.6*	-	35.6*	1.9	10.7	17.7	24.8	40.2	53.6	100.2	82.5	94.8	65.0
2000	23.0*	0.1*	39.3*	1.9	7.0	12.7	26.5	57.2	72.0	97.8	153.9	121.6	80.4
Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)													
1995	2.4*	-	3.3*	-	0.7	0.7	1.7	2.1	7.7	10.3	10.6	12.4	35.1
2000	3.0*	0.1*	4.7*	-	0.6	2.7	4.0	5.9	9.5	10.2	10.0	17.4	29.1
Other cancer													
1995	130.3*	5.4*	187.1*	30.1	52.8	91.3	137.9	232.0	342.1	423.6	559.5	784.4	1268.6
2000	120.4*	4.8*	163.1*	27.1	41.4	82.9	123.2	197.6	312.5	357.2	562.6	727.5	1277.9
Chronic obstructive pulmonary disease (COPD)													
1995	16.7*	0.4*	20.2*	-	1.3	6.6	5.8	19.6	35.0	73.3	115.2	151.2	160.8
2000	20.6*	0.1*	23.3*	0.6	1.9	2.7	13.9	24.4	42.4	77.4	126.2	190.0	248.9
Other respiratory disease													
1995	37.5*	0.3*	7.2*	0.6	-	2.0	0.8	4.1	9.8	33.1	72.0	242.7	1402.9
2000	26.7*	0.2*	5.0*	0.6	1.9	0.7	3.3	4.2	9.5	14.8	48.7	141.2	1024.5
Vascular disease													
1995	212.2*	2.2*	111.0*	4.5	12.0	25.6	42.9	83.5	191.3	417.4	892.5	1678.3	5675.8
2000	184.8*	1.8*	82.2*	8.6	12.1	22.1	49.7	73.2	137.7	271.9	653.4	1393.1	5392.8
Liver cirrhosis													
1995	2.9*	0.1*	5.9*	2.6	2.0	3.3	5.8	5.2	10.9	11.4	8.6	7.9	10.3
2000	3.4*	0.1*	6.9*	-	2.5	2.7	9.9	13.5	11.7	8.0	7.8	8.7	9.2
Other medical causes													
1995	94.6*	17.0*	54.7*	14.7	15.4	26.9	33.9	53.6	84.2	153.9	326.3	627.5	2165.1
2000	100.5*	17.3*	64.6*	22.2	21.0	29.4	39.7	69.8	91.1	178.6	299.0	620.0	2309.3
All non-medical causes													
1995	25.0*	9.3*	22.8*	14.1	21.4	20.4	23.9	18.6	29.5	32.0	58.5	86.9	372.1
2000	25.4*	12.7*	19.3*	15.4	13.4	21.4	18.5	16.0	23.3	27.3	47.6	90.1	393.6

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

NORWAY: 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	1.2 / 5.3	0.6 / 3.1	23 years
70+	2.2 / 15	1.5 / 19	8 years
All ages	3.4 / 22	2.1 / 22	13 years

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

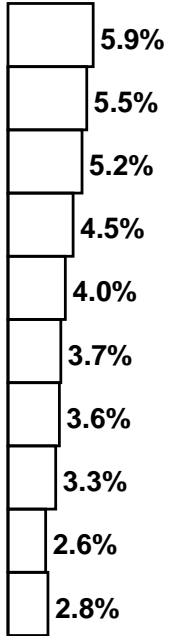
Cause	Male (by age)				Female (by age)			
	0–34	35–69	70+	All	0–34	35–69	70+	All
Lung Cancer	–/0.0	0.4/0.5	0.6/0.6	1.0/1.1	–/0.0	0.2/0.3	0.3/0.4	0.5/0.7
All Cancer	–/0.1	0.6/1.8 (32%)	0.9/3.6 (24%)	1.4/5.5	–/0.1	0.3/1.6 (17%)	0.4/3.3 (11%)	0.6/4.9
Vascular	–/0.0	0.3/1.6	0.6/7.1	0.8/8.7	–/0.0	0.1/0.6	0.5/8.9	0.6/9.5
Respiratory	–/0.0	0.1/0.2	0.6/1.8	0.7/2.1	–/0.0	0.1/0.2	0.5/2.1	0.6/2.3
All Other	–/0.8	0.2/1.6	0.2/3.0	0.4/5.4	–/0.3	0.1/0.7	0.2/4.5	0.3/5.6
All Causes	–/0.9	1.2/5.3 (22%)	2.2/15 (14%)	3.4/22	–/0.4	0.6/3.1 (19%)	1.5/19 (8%)	2.1/22

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

Cause	Male	Female	Male + Female
All Cancer	1.4 / 5.5 (26%)	0.6 / 4.9 (13%)	2.1 / 10 (20%)
All Causes	3.4 / 22 (15%)	2.1 / 22 (9%)	5.5 / 44 (12%)

1955-2000: NORWAY

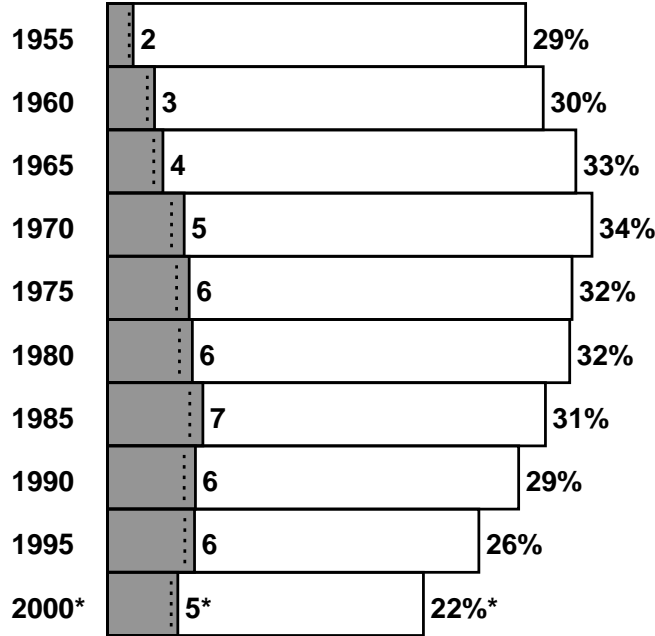
Population risk of dying at ages 0-34



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

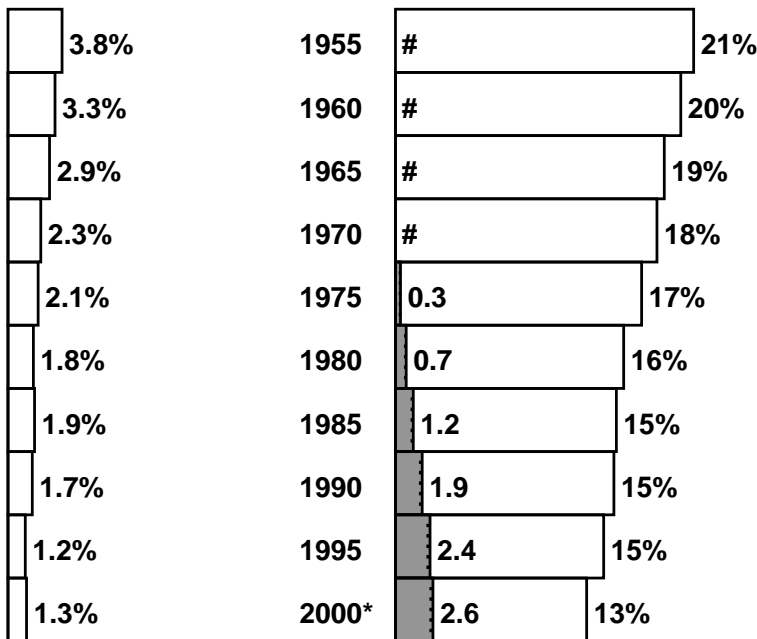
*eg, at year 2000 male death rates, out of 100 men aged 35, 22 would die before age 70 (with 5 of these deaths attributed to smoking)

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

NORWAY: 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	-/1.7	0.4/5.4 (7%)	0.0/7.7 (0.1%)	0.4/15	-/1.1	0.0/4.0	0.0/9.2	0.0/14
1960	-/1.6	0.7/6.3 (11%)	0.1/9.2 (1%)	0.8/17	-/0.9	0.0/4.1	0.0/10	0.0/15
1965	-/1.5	0.9/7.4 (12%)	0.3/10 (3%)	1.2/19	-/0.8	0.0/4.2	0.0/11	0.0/16
1970	-/1.4	1.3/8.1 (16%)	0.6/12 (5%)	1.9/21	-/0.7	0.0/4.3	0.0/12	0.0/17
1975	-/1.3	1.4/7.9 (18%)	0.9/13 (7%)	2.3/22	-/0.6	0.1/4.1 (2%)	0.0/13	0.1/18
1980	-/1.1	1.5/8.0 (18%)	1.3/13 (9%)	2.7/23	-/0.5	0.2/3.8 (5%)	0.0/14	0.2/19
1985	-/1.1	1.6/7.5 (22%)	1.8/15 (12%)	3.4/24	-/0.5	0.3/3.7 (8%)	0.5/16 (3%)	0.8/21
1990	-/1.1	1.4/6.9 (21%)	1.9/16 (12%)	3.4/24	-/0.5	0.4/3.6 (12%)	0.6/18 (3%)	1.0/22
1995	-/0.8	1.3/5.9 (23%)	2.2/16 (13%)	3.5/23	-/0.4	0.5/3.3 (16%)	1.0/19 (5%)	1.5/22
2000	-/0.9	1.2/5.3 (22%)	2.2/15 (14%)	3.4/22	-/0.4	0.6/3.1 (19%)	1.5/19 (8%)	2.1/22

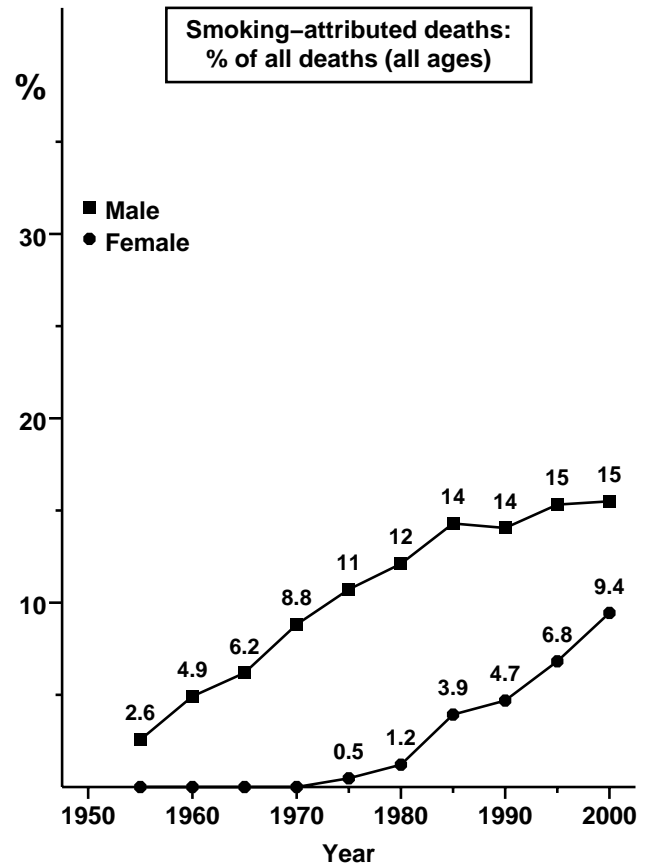
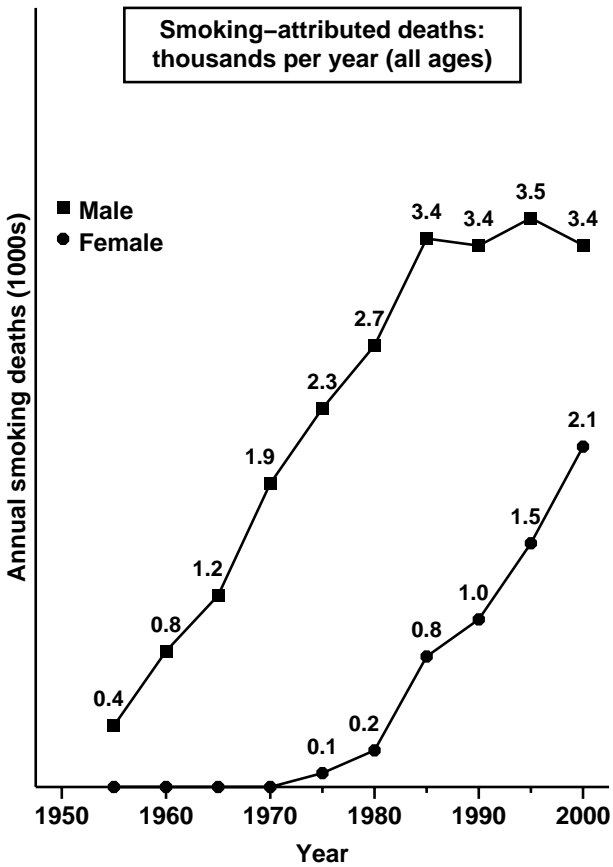
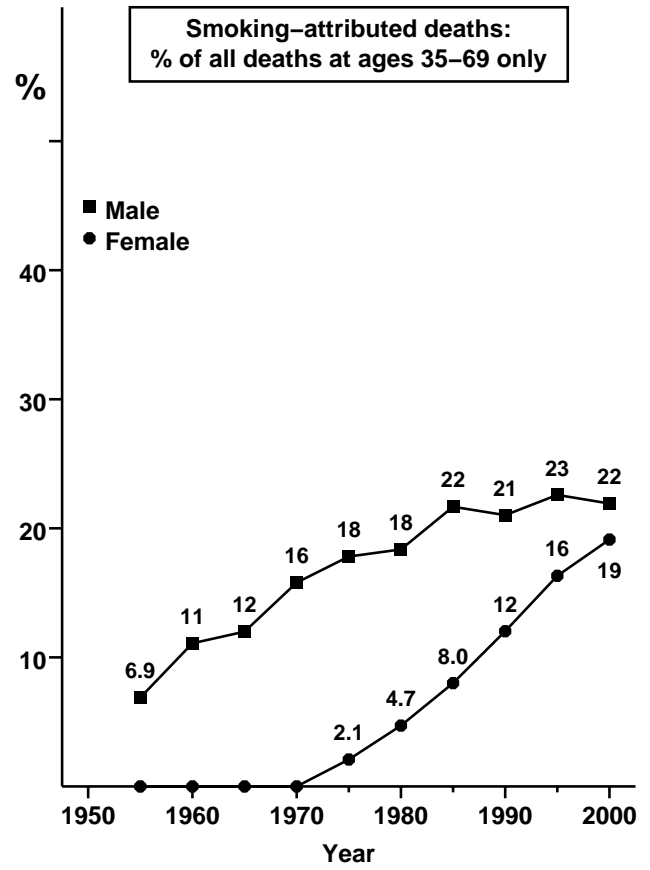
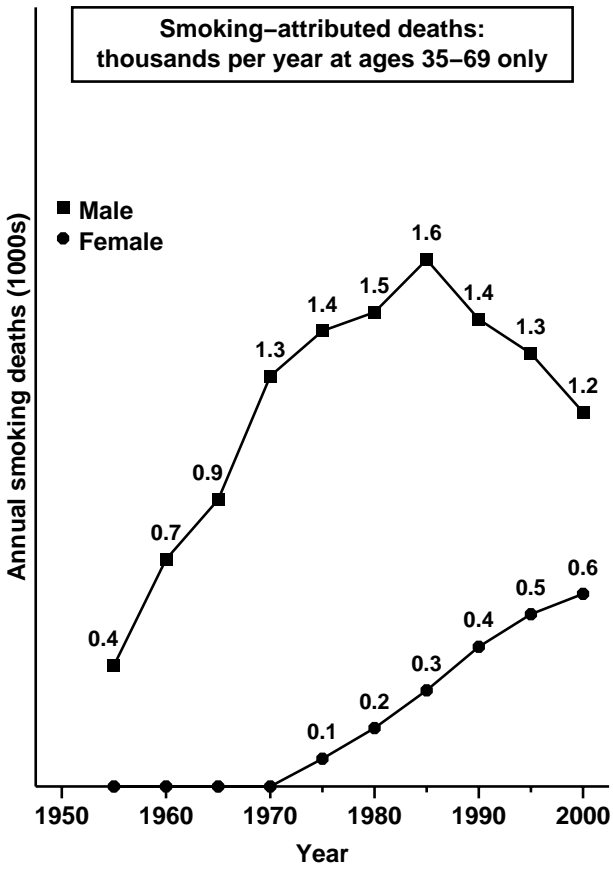
50-year total* (thousands), mid-1950 to mid-2000: 132 / 1940

1950-2000 by age & sex:

-/64	57/343 (16%)	52/620 (8%)	108/1027	-/34	9.2/193 (5%)	15/686 (2%)	24/913
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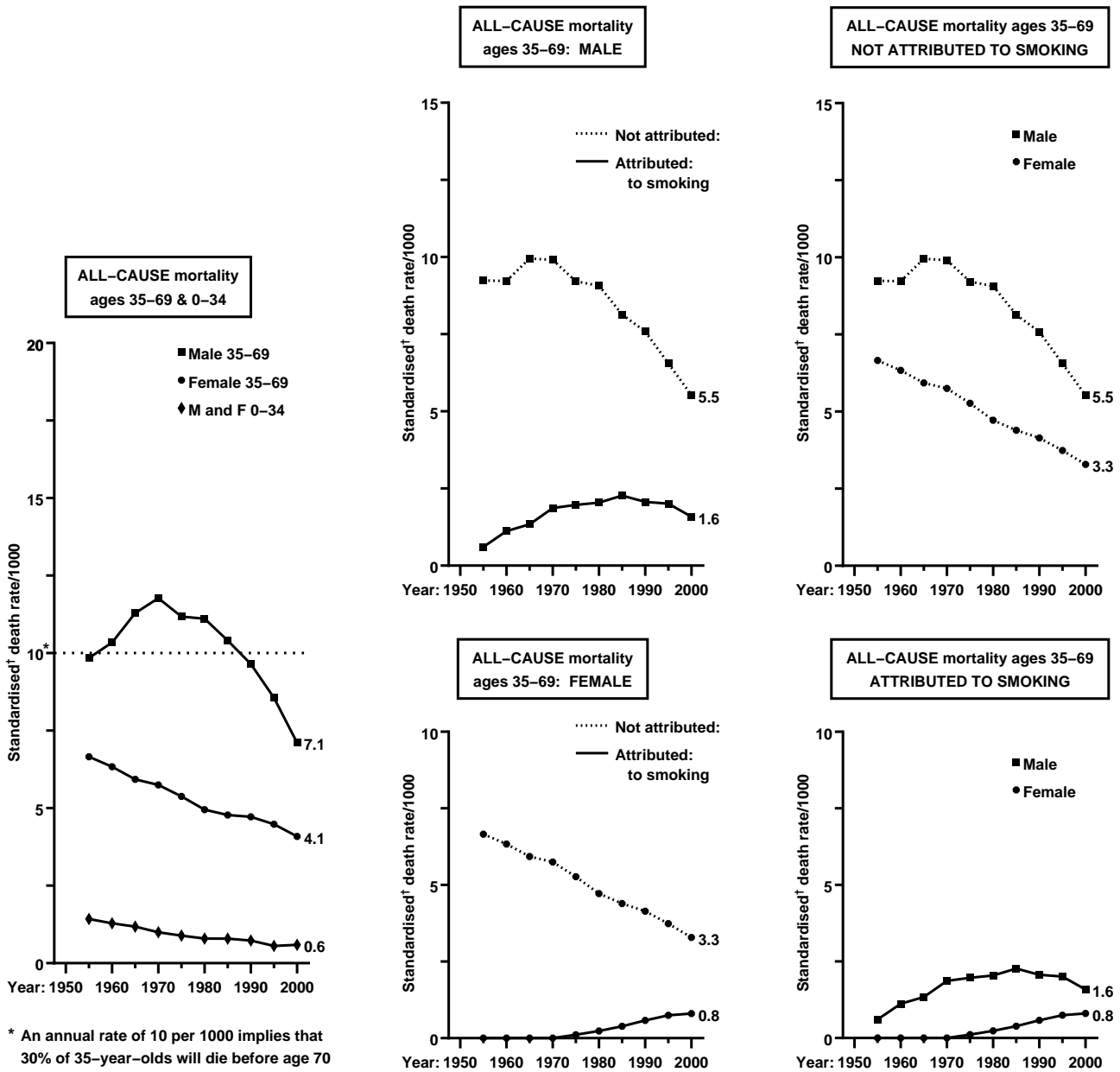
*Estimated as 10 times the sum of the annual numbers for 1955, 1965, 1975, 1985 & 1995

1955-2000: NORWAY



NORWAY: 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

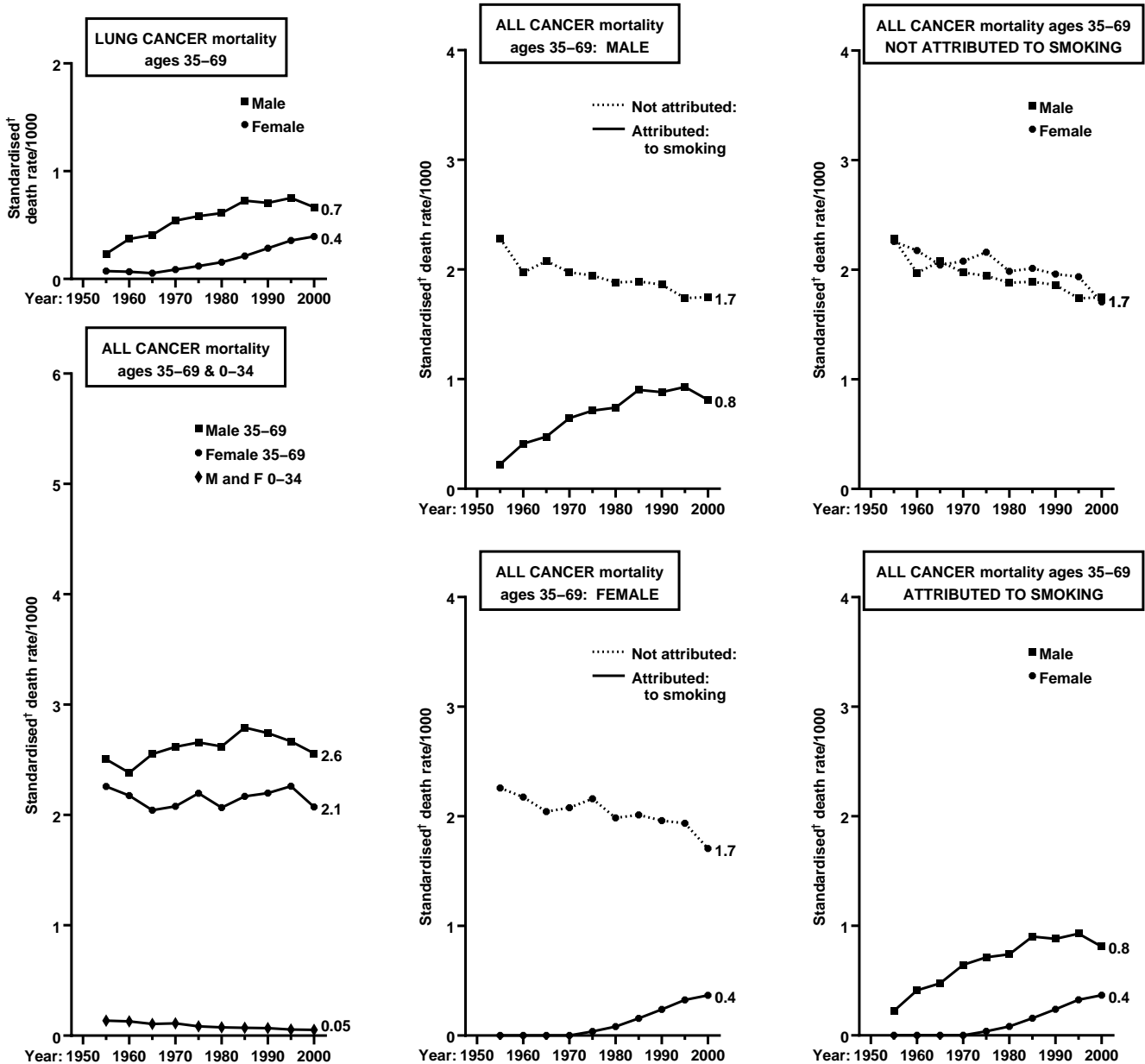
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

Year	MALE all-cause mortality (annual rate/1000, by age)								FEMALE all-cause mortality (annual rate/1000, by age)									
	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	-	1.75	0.60	9.24	0.06	54.5	-	1.10	0.00	6.65	0.00	46.6	-	1.10	0.00	6.65	0.00	46.6
1960	-	1.61	1.12	9.22	1.11	57.4	-	0.95	0.00	6.33	0.00	46.5	-	0.95	0.00	6.33	0.00	46.5
1965	-	1.51	1.34	9.95	2.21	59.1	-	0.84	0.00	5.93	0.00	44.8	-	0.84	0.00	5.93	0.00	44.8
1970	-	1.33	1.86	9.90	4.12	61.5	-	0.66	0.00	5.75	0.00	42.4	-	0.66	0.00	5.75	0.00	42.4
1975	-	1.16	1.97	9.21	5.73	58.3	-	0.61	0.11	5.27	0.00	39.2	-	0.61	0.11	5.27	0.00	39.2
1980	-	1.07	2.04	9.07	6.89	54.5	-	0.51	0.23	4.72	0.25	35.3	-	0.51	0.23	4.72	0.25	35.3
1985	-	1.04	2.27	8.14	8.74	54.8	-	0.53	0.38	4.39	1.49	32.1	-	0.53	0.38	4.39	1.49	32.1
1990	-	0.97	2.06	7.58	8.82	50.7	-	0.49	0.58	4.14	1.67	30.9	-	0.49	0.58	4.14	1.67	30.9
1995	-	0.76	2.01	6.55	8.94	45.5	-	0.35	0.74	3.73	2.35	26.7	-	0.35	0.74	3.73	2.35	26.7
2000	-	0.81	1.58	5.52	7.99	37.4	-	0.37	0.80	3.28	3.68	22.4	-	0.37	0.80	3.28	3.68	22.4

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

1955-2000: NORWAY

ALL CANCER mortality rates attributed and not attributed to smoking



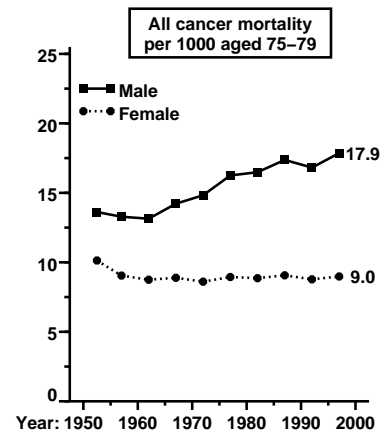
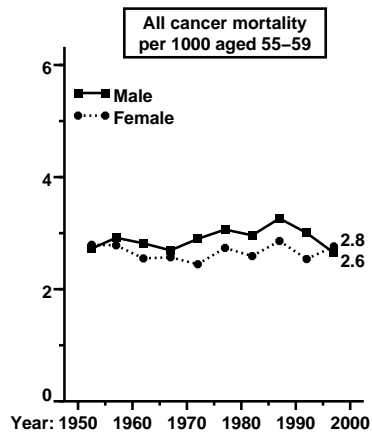
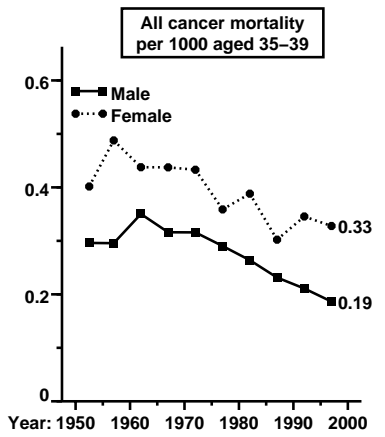
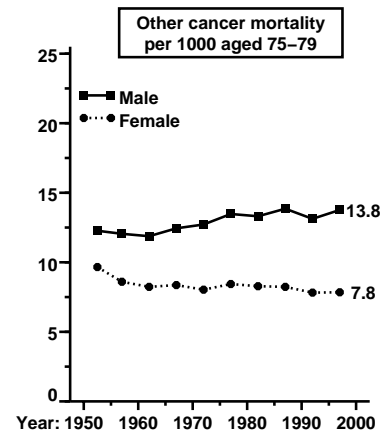
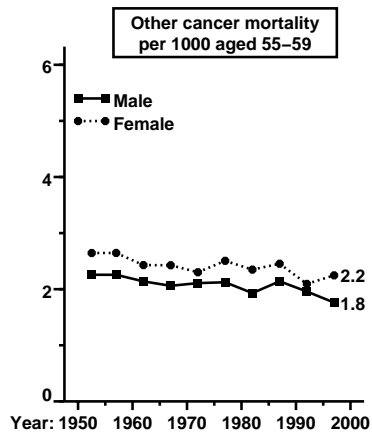
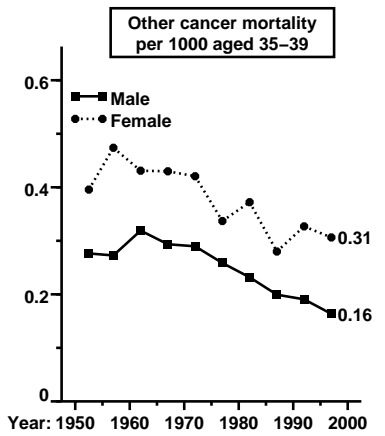
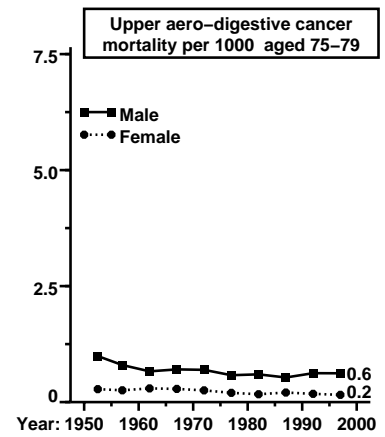
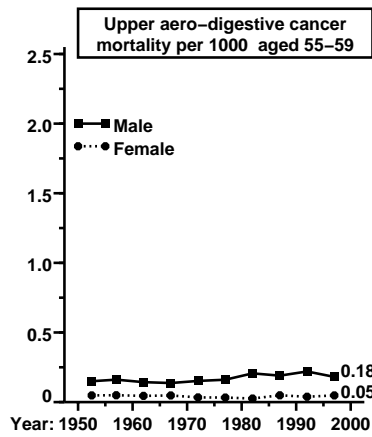
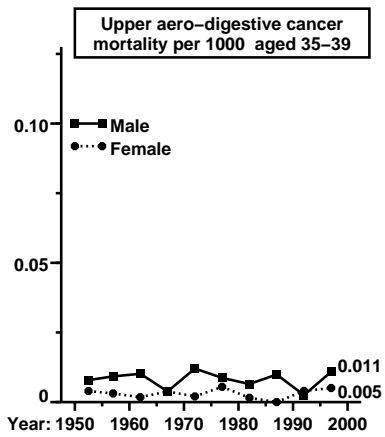
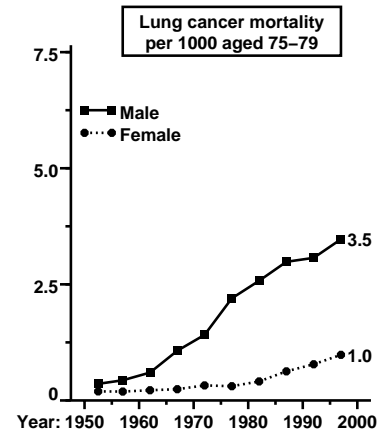
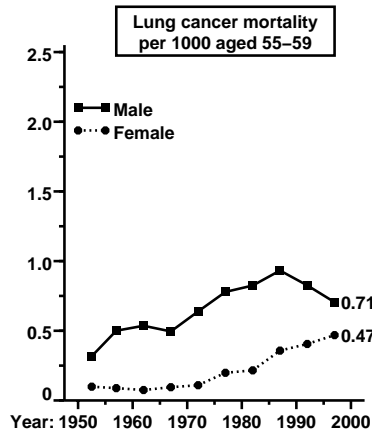
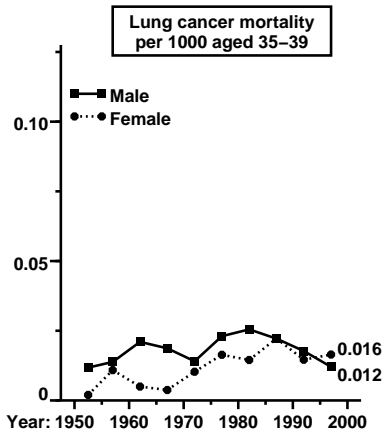
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

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	-	0.13	0.22	2.28	0.02	11.0	-	0.14	0.00	2.26	0.00	8.34	-	0.12	0.00	7.77
1960	-	0.14	0.41	1.97	0.47	11.0	-	0.08	0.00	2.04	0.00	7.69	-	0.10	0.00	7.61
1965	-	0.13	0.47	2.08	0.91	11.4	-	0.07	0.04	2.16	0.00	7.26	-	0.07	0.07	7.87
1970	-	0.12	0.64	1.97	1.55	11.5	-	0.07	0.08	1.98	0.07	7.87	-	0.07	0.16	2.01
1975	-	0.10	0.71	1.94	2.26	11.2	-	0.06	0.16	2.01	0.45	7.66	-	0.06	0.24	1.96
1980	-	0.08	0.74	1.88	2.77	11.4	-	0.05	0.24	1.96	0.53	7.68	-	0.05	0.32	1.94
1985	-	0.07	0.90	1.89	3.56	12.2	-	0.05	0.32	1.94	0.72	7.00	-	0.05	0.37	1.71
1990	-	0.07	0.88	1.86	3.70	10.9	-	0.05	0.37	1.71	1.32	6.65	-	0.05	0.37	1.71
1995	-	0.05	0.93	1.74	4.05	11.1	-	0.05	0.37	1.71	1.32	6.65	-	0.05	0.37	1.71
2000	-	0.05	0.81	1.75	3.83	9.93	-	0.05	0.37	1.71	1.32	6.65	-	0.05	0.37	1.71

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

NORWAY: 1951-2000

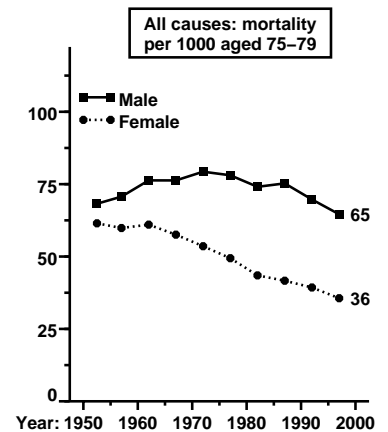
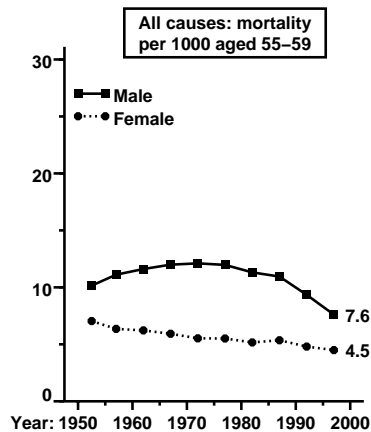
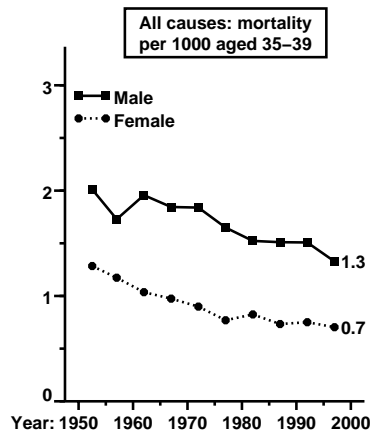
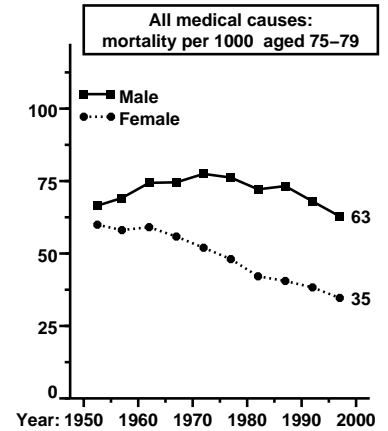
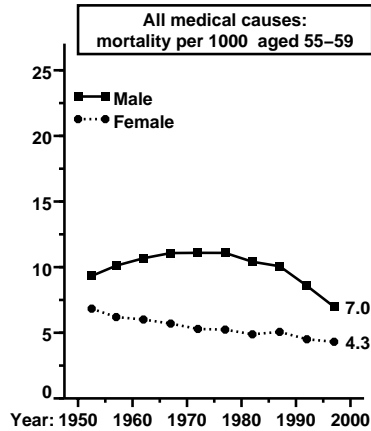
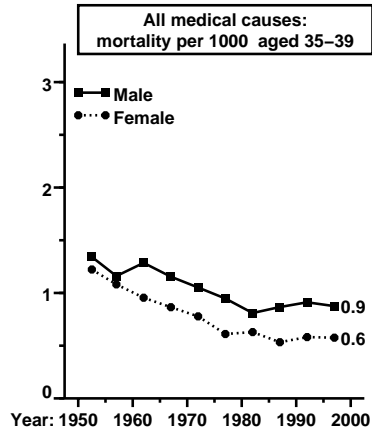
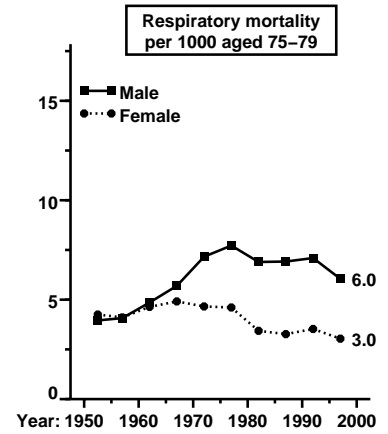
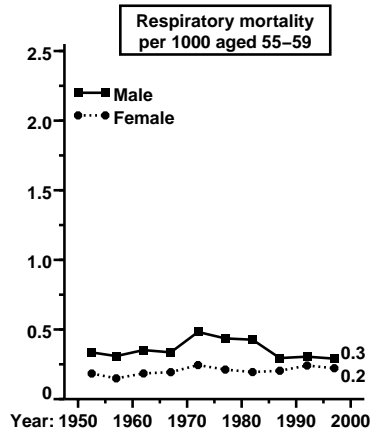
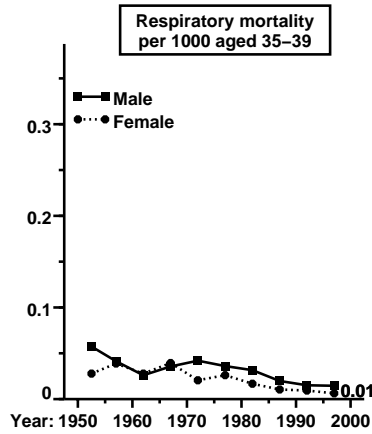
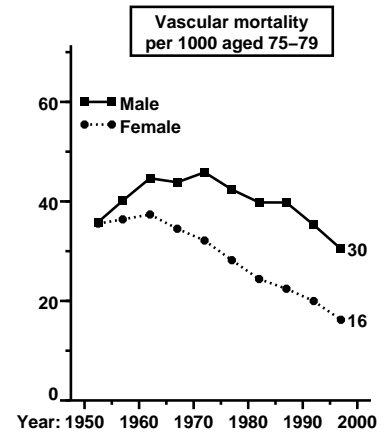
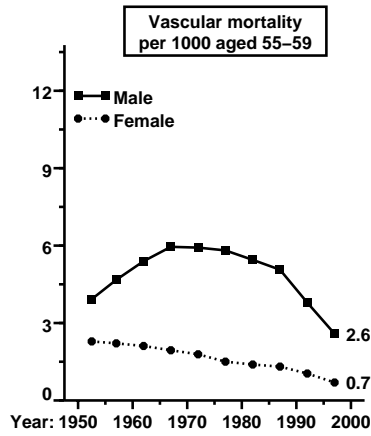
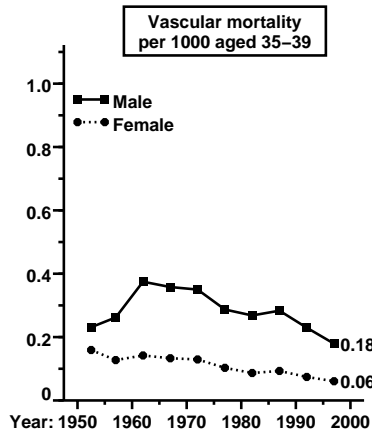
Mortality* trends at selected ages: 35-39, 55-59 & 75-79



* Annual mortality per 1000: averages of years available in 1950-54,.....,1995-99; year 2000 on pages 362-363

1951-2000: NORWAY

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



* Annual mortality per 1000: averages of years available in 1950-54,.....,1995-99; year 2000 on pages 362-363