

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

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

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

NETHERLANDS

Raw data (pages 338–39, 340–41)

Analyses (pages 342–43, 344–45, 346–47)

Appendix (pages 348–49)

NETHERLANDS: 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	68773	2299	21653	859.9	61.6	782.0	141.4	15.3	16.0	52.4	71.2	62.6	72.5
	F	71754	1416	13399	551.3	39.8	457.9	121.8	10.7	11.4	26.3	29.5	32.4	46.2
Tuberculosis	M	49	1	10	0.6	0.0	0.3	-	-	0.2	-	-	-	-
	F	42	1	11	0.4	0.0	0.4	-	-	-	-	-	0.2	-
HIV	M	106	11	93	1.2	0.2	2.3	-	-	-	-	-	0.3	1.3
	F	26	9	16	0.3	0.2	0.4	-	-	-	-	-	0.5	0.9
Other infective and parasitic	M	633	44	180	7.9	1.2	6.3	4.6	0.4	0.4	0.2	0.6	0.9	1.2
	F	774	43	121	6.1	1.3	4.3	4.9	0.2	0.8	1.3	0.4	0.5	0.6
ALL CANCER	M	20718	240	8396	259.0	6.1	311.9	4.0	3.3	2.4	4.9	7.3	9.4	11.6
	F	17028	226	6666	157.3	5.9	225.5	3.4	2.7	3.6	3.8	5.9	6.8	15.2
Mouth and pharynx cancer	M	364	4	238	4.6	0.1	8.0	-	-	-	-	0.2	0.5	-
	F	169	-	91	1.7	-	3.2	-	-	-	-	-	-	-
Oesophagus cancer	M	871	3	469	11.0	0.1	16.9	-	-	-	-	-	0.3	0.1
	F	354	2	121	3.1	0.1	4.2	-	-	-	-	0.4	-	-
Stomach cancer	M	1031	3	416	12.9	0.1	15.5	-	-	-	-	0.2	-	0.3
	F	688	3	200	5.8	0.1	6.9	-	-	-	-	0.2	0.2	0.2
Colorectal cancer	M	2140	7	874	26.8	0.2	32.8	-	-	-	-	-	0.5	0.6
	F	2160	9	591	18.1	0.2	20.7	-	-	-	-	0.2	0.2	1.1
Liver cancer	M	216	4	97	2.7	0.1	3.4	-	-	0.4	-	-	-	0.3
	F	129	3	54	1.2	0.1	1.9	-	-	-	-	-	0.2	0.3
Pancreas cancer	M	846	-	412	10.6	-	15.4	-	-	-	-	-	-	-
	F	921	4	270	8.0	0.1	9.7	-	-	-	-	0.2	-	0.5
Larynx cancer	M	202	-	102	2.5	-	3.6	-	-	-	-	-	-	-
	F	50	-	25	0.5	-	0.9	-	-	-	-	-	-	-
Lung cancer	M	6297	7	2675	78.7	0.1	102.6	-	-	-	-	-	-	1.0
	F	2262	4	1307	23.9	0.1	44.4	-	-	-	-	-	0.2	0.5
Malignant melanoma	M	279	20	179	3.4	0.5	5.8	-	-	-	0.2	0.4	1.7	1.0
	F	191	10	97	1.9	0.3	3.1	-	-	-	0.2	0.2	0.7	0.6
Female breast cancer	F	3425	33	1680	33.4	0.8	54.1	-	-	-	-	0.7	0.7	4.0
Cervix cancer	F	258	13	138	2.6	0.3	4.2	-	-	-	-	-	0.7	1.4
Other uterine cancer	F	400	1	121	3.4	0.0	4.3	-	-	-	-	-	-	0.2
Ovarian cancer	F	913	10	406	8.8	0.3	14.0	-	0.2	0.2	0.2	-	0.4	0.8
Prostate cancer	M	2367	-	397	29.5	-	16.6	-	-	-	-	-	-	-
Bladder cancer	M	798	-	214	9.9	-	7.9	-	-	-	-	-	-	-
	F	314	1	71	2.5	0.0	2.5	-	-	-	-	-	-	0.2
Other and ill-defined cancer sites	M	3710	120	1687	46.4	3.1	60.6	2.8	2.0	1.8	3.2	3.4	3.8	5.0
	F	3399	80	1090	30.0	2.2	37.4	3.0	1.8	2.5	2.5	1.1	1.3	3.4
Hodgkin's disease	M	48	10	18	0.6	0.3	0.6	-	-	-	-	1.0	0.3	0.4
	F	38	7	12	0.4	0.2	0.4	-	-	-	-	0.7	0.5	0.2
Myeloma and non-Hodgkin lymphomas	M	966	20	419	12.0	0.5	15.1	-	0.6	-	0.4	0.8	0.7	1.0
	F	842	16	250	7.4	0.4	8.9	0.2	-	0.2	0.4	0.9	0.5	0.8
Leukaemia	M	583	42	199	7.3	1.1	7.1	1.2	0.8	0.2	1.1	1.3	1.4	1.8
	F	515	30	142	4.5	0.8	4.8	0.2	0.6	0.6	0.4	1.3	1.3	1.2
Diabetes	M	1318	7	476	16.5	0.2	17.0	0.2	-	-	-	0.2	0.5	0.3
	F	2027	8	289	14.7	0.2	10.5	-	-	-	0.2	0.2	-	0.9
ALL VASCULAR DISEASE	M	23638	133	6806	294.5	3.4	251.3	2.8	0.4	1.0	4.5	2.5	5.9	6.6
	F	25553	103	2896	179.8	2.6	103.1	1.5	0.6	0.8	0.9	2.8	5.4	6.5
Rheumatic heart disease and fever	M	8	-	2	0.1	-	0.1	-	-	-	-	-	-	-
	F	7	-	2	0.1	-	0.1	-	-	-	-	-	-	-
Hypertensive disease	M	289	-	101	3.6	-	3.7	-	-	-	-	-	-	-
	F	508	1	65	3.7	0.0	2.4	-	-	-	-	-	-	0.2
Ischaemic heart disease	M	9921	29	3493	123.5	0.7	127.5	-	-	-	0.2	0.4	1.6	2.5
	F	7522	17	1051	55.4	0.4	38.1	-	-	-	-	0.2	0.9	1.7
Pulmonary embolism and other venous	M	267	7	70	3.3	0.2	2.5	-	-	-	0.2	-	0.3	0.6
	F	429	17	95	3.4	0.5	3.0	-	-	-	0.2	1.1	1.1	0.8
Cerebrovascular disease	M	4702	21	966	58.5	0.6	36.3	0.4	0.2	0.2	0.9	0.6	0.9	0.7
	F	7482	32	753	51.6	0.8	25.9	-	0.6	0.8	0.2	0.4	2.3	1.4
Other vascular disease	M	8451	76	2174	105.5	2.0	81.2	2.4	0.2	0.8	3.2	1.5	3.1	2.8
	F	9605	36	930	65.6	0.9	33.5	1.5	-	-	0.4	1.1	1.1	2.5
Chronic obstructive pulmonary disease	M	4208	12	603	52.1	0.3	24.4	0.8	0.4	0.4	-	-	0.2	0.4
	F	2550	7	449	19.7	0.2	16.6	0.2	-	-	0.7	-	0.2	0.3
Other respiratory disease	M	3500	31	444	43.8	0.9	17.3	2.0	0.8	0.6	1.1	0.2	0.9	0.4
	F	4419	25	275	28.6	0.7	9.9	1.1	0.4	0.2	0.9	0.9	0.4	1.1
Peptic ulcer	M	165	-	34	2.1	-	1.3	-	-	-	-	-	-	-
	F	227	1	23	1.6	0.0	0.8	-	0.2	-	-	-	-	-
Liver cirrhosis	M	507	3	387	6.3	0.1	12.3	-	-	-	-	-	-	0.4
	F	303	-	192	3.2	-	6.0	-	-	-	-	-	-	-
Renal disease	M	594	5	84	7.4	0.1	3.1	0.2	-	-	-	0.6	-	0.1
	F	745	5	82	5.2	0.1	3.0	0.4	-	-	-	0.2	0.2	0.2
Pregnancy, birth	F	18	13	5	0.2	0.3	0.1	-	-	-	0.2	0.2	0.7	1.1
Congenital and perinatal causes	M	601	531	56	9.3	15.2	1.7	99.5	1.2	1.0	0.6	1.5	0.7	1.6
	F	531	438	76	8.4	13.2	2.2	87.0	0.6	0.8	1.3	1.5	0.2	0.8
Ill-defined causes	M	3564	190	1333	44.8	5.0	46.2	8.4	1.2	0.6	3.4	8.2	5.6	7.6
	F	4180	109	630	30.5	3.1	20.8	7.8	0.8	0.6	2.5	3.5	2.7	3.6
Other medical causes	M	6149	219	1431	76.9	5.9	49.5	10.7	3.1	4.0	4.5	5.9	5.9	6.9
	F	11185	152	1034	76.0	4.2	35.3	9.3	2.7	1.7	2.5	3.7	4.1	5.6
ALL NON-MEDICAL CAUSES	M	3023	872	1320	37.5	23.1	37.1	8.0	4.5	5.3	33.1	44.2	32.3	33.9
	F	2146	276	634	19.4	7.7	19.1	6.3	2.5	2.7	12.1	10.1	10.6	9.6
Road traffic accidents	M	802	392	277	10.2	10.8	7.9	1.2	2.2	3.4	21.2	24.5	13.0	9.8
	F	288	104	109	3.4	3.0	3.3	1.1	1.4	1.7	7.1	4.4	3.6	1.9
Fire	M	37	11	13	0.5	0.3	0.4	0.4	0.6	-	-	0.4	0.2	0.4
	F	29	6	8	0.3	0.2	0.2	0.8	0.2	-	0.2	-	-	-
Suicide	M	999	257	608	12.1	6.5	16.7	-	-	1.0	7.5	11.5	10.9	14.5
	F	501	85	336	5.8	2.1	9.6	-	-	-	1.8	2.2	4.7	6.3
Homicide	M	120	49	67	1.4	1.3	1.6	0.8	-	-	1.5	2.1	2.3	2.2
	F	60	32	22	0.8	0.9	0.6	-	0.4	0.2	2.0	2.2	1.6	0.2
POPULATION:			M=male											
(1000s; UN, 2004 revision)			F=female											
					7879.1	3704.1	3594.6	497.3	510.4	494.3	467.7	477.2	575.5	681.7
					8018.5	3544.6	3533.7	473.6	487.0	473.0	448.1	457.6	558.5	646.8

2000: NETHERLANDS

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			
99.8	179.7	287.2	462.3	806.4	1317.1	2321.6	3945.6	6742.7	14799.4	M	ALL CAUSES	001-999/A00-Y89
78.4	133.4	232.6	314.3	490.7	742.1	1213.8	2037.8	3611.3	11453.5	F		
0.1	0.2	0.5	0.2	0.7	0.3	-	4.1	7.2	9.6	M	Tuberculosis	010-018, 137/ A15-A19, B90
-	-	0.4	0.2	0.2	1.1	0.9	1.0	4.0	4.5	F		
2.3	5.1	3.1	2.7	0.7	1.4	1.0	-	0.6	0.6	M	HIV	279.5, 279.6/B20-B24
0.6	0.8	0.5	0.2	0.5	0.3	-	-	-	0.3	F		
1.0	2.2	4.0	3.9	6.1	6.3	20.6	38.8	56.6	136.3	M	Other infective and parasitic	Rest of 001-139/rest of A00-B99 excl A33,A34
0.9	0.7	1.8	1.9	4.4	9.5	10.6	20.7	45.0	118.8	F		
19.3	44.4	89.5	172.6	332.4	548.7	976.4	1412.9	2077.6	3138.3	M	ALL CANCER	140-208/C00-C97
30.1	65.3	121.2	174.2	273.2	385.9	528.4	707.9	944.8	1503.9	F		
0.4	2.1	4.6	7.9	11.6	13.0	16.4	18.8	21.1	24.4	M	Mouth and pharynx cancer	140-149/C00-C14
0.2	0.7	0.7	1.9	4.7	6.8	7.7	5.8	6.5	11.8	F		
0.9	1.9	5.2	12.6	22.5	29.8	45.5	56.8	68.8	87.5	M	Oesophagus cancer	150/C15
-	0.7	1.9	3.3	5.8	6.5	11.2	14.5	21.1	36.0	F		
0.7	2.4	5.9	8.7	12.9	26.5	51.4	68.7	98.2	171.7	M	Stomach cancer	151/C16
1.1	3.0	1.8	4.7	7.2	12.7	17.7	28.8	39.2	81.1	F		
0.9	2.2	9.3	18.0	35.4	64.0	99.8	134.5	212.4	351.8	M	Colorectal cancer	153, 154/C18-C21
0.8	3.3	9.0	14.6	24.7	39.4	52.9	85.9	135.0	259.6	F		
0.3	0.8	1.5	2.9	4.1	5.2	8.8	13.9	21.1	27.7	M	Liver cancer	155.0/C22 excl C221
0.5	0.3	0.7	0.5	1.9	4.1	5.6	4.5	9.4	9.0	F		
0.6	2.9	3.4	7.6	17.7	26.7	49.1	53.6	86.5	94.5	M	Pancreas cancer	157/C25
0.8	1.3	2.3	6.4	9.8	19.2	27.8	47.8	71.1	85.3	F		
-	0.3	1.7	3.0	4.1	8.0	8.2	9.8	23.8	21.2	M	Larynx cancer	161/C32
-	-	0.7	0.7	0.9	2.2	1.5	3.2	1.8	2.8	F		
2.6	8.8	21.5	47.3	108.5	173.1	356.6	494.7	680.0	758.2	M	Lung cancer	162/C33, C34
3.1	11.0	27.5	34.0	53.8	78.3	103.1	113.7	108.2	84.7	F		
1.3	3.7	3.4	5.4	7.3	7.2	12.1	13.5	14.4	13.5	M	Malignant melanoma	172/C43
0.8	1.3	1.9	2.6	5.6	4.1	5.6	5.5	8.3	12.4	F		
12.4	22.9	36.1	52.3	75.5	79.7	99.5	120.5	160.1	252.8	F	Female breast cancer	174/C50
1.7	3.5	5.0	4.0	3.5	3.2	8.3	8.1	10.2	15.2	F	Cervix cancer	180/C53
-	0.7	1.9	2.8	4.9	7.0	12.7	18.1	24.7	43.4	F	Other uterine cancer	179, 182/C54, C55
1.5	2.6	5.7	11.0	16.8	28.1	32.2	40.1	50.5	65.9	F	Ovarian cancer	183/C56, C570-C574
-	0.2	0.3	2.5	11.3	31.7	70.0	159.9	271.8	700.3	M	Prostate cancer	185/C61
0.4	0.5	2.6	4.7	9.1	14.1	24.2	51.5	96.0	183.3	M	Bladder cancer	188/C67
0.2	0.3	1.6	0.9	2.6	5.1	7.1	11.6	20.0	42.5	F		
7.8	13.4	20.3	40.0	61.9	109.5	171.4	233.4	333.3	470.1	M	Other and ill-defined cancer sites	Rest of 140-199/ rest of C00-C80, C97
5.4	10.7	19.3	25.1	37.3	65.1	99.2	139.9	193.1	355.9	F		
0.3	-	0.3	0.2	1.4	1.4	0.7	2.9	2.8	5.1	M	Hodgkin's disease	201/C81
0.2	-	0.2	0.5	0.2	0.3	1.5	0.6	2.5	2.8	F		
1.9	3.0	5.9	9.4	16.8	24.0	44.5	62.6	90.4	135.7	M	Myeloma and non- Hodgkin lymphomas	200, 202-203/ C82-C90, C96
0.6	1.2	2.8	5.1	13.1	15.9	23.3	40.7	55.2	83.9	F	Leukaemia	204-208/C91-C95
1.2	2.2	3.4	2.4	7.9	14.6	18.0	38.4	57.1	93.2	M		
1.1	1.8	1.9	3.8	4.9	8.4	11.5	18.4	27.9	58.8	F		
0.9	4.0	4.8	12.8	21.8	30.3	44.2	77.7	123.1	272.0	M	Diabetes	250/E10-E14
1.2	1.0	3.5	4.2	12.1	18.4	32.8	58.5	116.9	345.4	F		
20.0	42.6	80.5	141.8	249.8	433.7	790.6	1433.0	2544.1	5535.0	M	ALL VASCULAR DISEASE	390-459/I00-I99
15.8	22.9	41.3	51.7	83.9	163.1	342.6	724.1	1393.5	4638.0	F		
-	-	-	-	0.2	-	0.3	0.4	1.7	1.3	M	Rheumatic heart disease and fever	390-398/I00-I09
-	-	-	-	0.5	-	-	0.6	-	0.8	F		
-	0.5	0.5	3.0	4.5	5.5	12.1	14.7	26.6	66.9	M	Hypertensive disease	401-405/I10-I15
-	0.3	0.5	0.9	3.5	3.2	8.3	15.5	30.9	87.0	F		
11.0	23.0	43.4	78.7	132.5	215.9	388.3	644.7	1066.6	1864.3	M	Ischaemic heart disease	410-414/I20-I25
4.0	5.9	15.2	16.4	28.4	65.4	131.4	284.0	475.5	1200.7	F		
0.6	0.8	1.5	0.8	2.0	4.7	6.9	15.9	29.4	63.0	M	Pulmonary embolism and other venous	415.1, 451-453/ I26, I80-I82
2.3	2.3	1.2	1.6	2.6	4.1	7.1	11.3	28.7	57.2	F		
2.6	5.6	10.2	17.2	35.6	62.0	121.0	267.8	549.6	1330.5	M	Cerebrovascular disease	430-438/I60-I69
6.0	6.9	12.2	17.6	22.1	37.3	79.4	187.1	398.9	1413.0	F		
5.9	12.8	25.0	42.1	74.9	145.6	262.0	489.4	870.2	2209.0	M	Other vascular disease	Rest of 390-459/ rest of I00-I99
3.5	7.4	12.0	15.3	26.8	53.2	116.4	225.5	459.5	1879.2	F		
0.9	1.3	2.4	5.6	18.6	44.4	97.8	277.2	559.1	1226.4	M	Chronic obstructive pulmonary disease	490-496/ J40-J47, J67
0.5	1.5	3.4	8.5	15.2	26.5	60.8	112.8	160.1	367.1	F		
1.6	2.2	4.6	5.7	10.7	30.3	65.8	145.1	349.4	1311.9	M	Other respiratory disease	Rest of 460-519/ rest of J00-J98
1.7	1.8	4.4	3.8	7.0	16.7	33.7	65.9	181.9	961.1	F		
-	0.2	0.3	0.7	0.9	3.6	3.3	9.0	19.4	47.6	M	Peptic ulcer	531-533/K25-K27
0.2	0.5	0.2	0.9	0.7	-	3.0	5.8	13.1	41.9	F		
2.2	7.0	9.5	12.8	14.7	18.2	21.6	19.6	22.2	18.6	M	Liver cirrhosis	571/K70, K74
1.1	3.3	3.5	9.1	6.8	8.1	10.0	12.6	9.8	12.7	F		
0.6	0.3	0.7	1.5	3.2	5.2	10.5	25.3	65.4	209.0	M	Renal disease	580-590/N00-N19
-	0.5	0.9	1.0	2.6	5.1	11.2	17.8	31.2	145.6	F		
0.6	0.2	-	-	-	-	-	-	-	-	F	Pregnancy, birth	630-676/A34,000-099
0.9	1.3	1.4	1.3	2.5	1.7	2.9	2.9	2.2	1.9	M	Congenital and perinatal causes	740-779/A33, P00-P96, Q00-Q99
1.5	1.8	1.4	2.4	3.7	2.4	2.4	2.6	1.5	1.4	F	Ill-defined causes	780-799/R00-R99
8.8	16.4	20.0	30.3	53.8	76.9	117.1	173.3	249.0	751.1	M		
5.2	7.4	14.4	16.4	23.5	29.2	49.3	77.5	154.3	781.5	F		
10.2	16.0	25.0	32.8	53.8	79.7	129.2	268.6	564.1	1816.7	M	Other medical causes	Rest of 001-799/ rest of A00-R99
6.9	12.7	17.0	22.5	36.8	52.4	98.9	193.9	481.7	2272.5	F		
30.9	36.5	41.0	37.7	36.8	36.4	40.6	58.1	102.6	324.1	M	ALL NON- MEDICAL CAUSES	E800-E999/V01-Y89
12.0	13.0	18.8	17.2	20.0	23.5	29.2	36.8	73.7	258.7	F		
7.3	6.4	7.7	7.4	9.1	6.9	10.8	15.9	22.2	34.7	M	Road traffic accidents	E810-E819, E826-E829/ part of V01-V99, Y850
2.5	2.3	2.1	3.1	3.5	3.8	5.9	8.4	9.8	6.2	F		
0.1	0.5	0.5	0.3	0.5	0.3	0.3	0.8	0.6	6.4	M	Fire	E890-E899/X00-X09
0.3	0.2	0.2	0.2	-	0.3	0.6	0.6	2.5	1.7	F		
13.8	19.3	20.7	17.5	15.7	16.0	13.7	15.9	19.4	38.6	M	Suicide	E950-E959/X60-X84
7.4	8.1	13.5	8.4	10.7	11.1	8.3	10.0	6.9	8.4	F		
3.1	2.9	2.1	1.7	0.9	0.6	-	-	1.7	0.6	M	Homicide	E960-E969/ X85-X99, Y00-Y09
0.8	0.5	0.7	0.9	0.7	-	0.6	0.6	1.1	0.3	F		
683.4	626.6	581.1	594.4	440.7	362.7	305.7	244.6	180.3	155.5	M	POPULATION	
650.8	606.6	564.4	574.0	429.0	370.3	338.6	309.5	275.5	355.2	F	(1000s; UN, 2004 revision)	

NETHERLANDS: 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	2609	254	11	6	237	12	37	136	13	1187	970
35-69	Sm.	7883	4016	2834	412	770	499	92	2254	-	1022	-
	Total	22018	8333	3047	634	4652	625	321	7729	322	3442	1246
		(36%)	(48%)	(93%)	(65%)	(17%)	(80%)	(29%)	(29%)		(30%)	
70+	Sm.	12813	5346	3620	372	1354	2878	385	3014	-	1190	-
	Total	43609	11848	3862	541	7445	3576	2399	17654	122	7193	817
		(29%)	(45%)	(94%)	(69%)	(18%)	(80%)	(16%)	(17%)		(17%)	
Any age	Sm.	20696	9362	6454	784	2124	3377	477	5268	-	2212	-
	Total	68236	20435	6920	1181	12334	4213	2757	25519	457	11822	3033
		(30%)	(46%)	(93%)	(66%)	(17%)	(80%)	(17%)	(21%)		(19%)	
2000												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	2299	240	7	7	226	12	31	133	3	1008	872
35-69	Sm.	6740	3577	2439	479	659	455	107	1677	-	924	-
	Total	21653	8396	2675	809	4912	603	444	6806	387	3697	1320
		(31%)	(43%)	(91%)	(59%)	(13%)	(75%)	(24%)	(25%)		(25%)	
70+	Sm.	12019	5036	3356	408	1272	2812	431	2498	-	1242	-
	Total	44821	12082	3615	621	7846	3593	3025	16699	117	8474	831
		(27%)	(42%)	(93%)	(66%)	(16%)	(78%)	(14%)	(15%)		(15%)	
Any age	Sm.	18759	8613	5795	887	1931	3267	538	4175	-	2166	-
	Total	68773	20718	6297	1437	12984	4208	3500	23638	507	13179	3023
		(27%)	(42%)	(92%)	(62%)	(15%)	(78%)	(15%)	(18%)		(16%)	

To be conservative, no deaths before age 35, and none from liver cirrhosis or non-medical causes, were attributed to smoking

Male death rates used for calculations: ICD codes as on previous page

	All ages	0-34	35-69	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+/NK
POPULATION (1000s; UN, 2004 revision)													
1995	7645.3	3829.6	3282.5	625.1	584.6	605.3	455.6	385.2	338.0	288.7	237.7	151.1	144.4
2000	7879.1	3704.1	3594.6	683.4	626.6	581.1	594.4	440.7	362.7	305.7	244.6	180.3	155.5
NUMBER OF DEATHS (Source: WHO)													
All causes													
1995	68236	2609	22018	775	1134	1794	2243	3281	5203	7588	10376	11069	22164
2000	68773	2299	21653	682	1126	1669	2748	3554	4777	7097	9651	12157	23013
Lung cancer													
1995	6920	11	3047	24	53	169	284	482	852	1183	1401	1156	1305
2000	6297	7	2675	18	55	125	281	478	628	1090	1210	1226	1179
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	929.2*	66.4*	875.2*	124.0	194.0	296.4	492.3	851.8	1539.3	2628.3	4365.2	7325.6	15349.0
2000	859.9*	61.6*	782.0*	99.8	179.7	287.2	462.3	806.4	1317.1	2321.6	3945.6	6742.7	14799.4
All cancer													
1995	279.6*	6.2*	339.4*	20.8	43.1	96.3	186.6	347.9	659.5	1021.5	1535.5	2197.9	3377.4
2000	259.0*	6.1*	311.9*	19.3	44.4	89.5	172.6	332.4	548.7	976.4	1412.9	2077.6	3138.3
Lung cancer													
1995	94.9*	0.2*	127.2*	3.8	9.1	27.9	62.3	125.1	252.1	409.8	589.4	765.1	903.7
2000	78.7*	0.1*	102.6*	2.6	8.8	21.5	47.3	108.5	173.1	356.6	494.7	680.0	758.2
Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)													
1995	16.2*	0.1*	24.6*	1.6	4.4	11.2	21.3	28.8	39.9	64.8	82.0	117.1	117.0
2000	18.1*	0.2*	28.5*	1.3	4.3	11.5	23.6	38.1	50.7	70.0	85.4	113.7	133.1
Other cancer													
1995	168.5*	5.9*	187.6*	15.4	29.6	57.2	102.9	193.9	367.5	546.9	864.1	1315.7	2356.6
2000	162.2*	5.8*	180.8*	15.4	31.3	56.4	101.8	185.8	324.8	549.9	832.8	1284.0	2246.9
Chronic obstructive pulmonary disease (COPD)													
1995	57.1*	0.3*	28.3*	0.5	0.5	1.2	5.9	17.1	41.4	131.3	319.7	604.2	1317.9
2000	52.1*	0.3*	24.4*	0.9	1.3	2.4	5.6	18.6	44.4	97.8	277.2	559.1	1226.4
Other respiratory disease													
1995	37.6*	0.9*	13.4*	1.1	2.7	3.1	5.3	10.9	20.1	50.2	127.9	285.2	1152.4
2000	43.8*	0.9*	17.3*	1.6	2.2	4.6	5.7	10.7	30.3	65.8	145.1	349.4	1311.9
Vascular disease													
1995	347.8*	3.1*	316.4*	22.4	53.4	88.6	159.8	287.4	562.4	1040.9	1748.4	3021.8	6185.6
2000	294.5*	3.4*	251.3*	20.0	42.6	80.5	141.8	249.8	433.7	790.6	1433.0	2544.1	5535.0
Liver cirrhosis													
1995	6.2*	0.3*	11.4*	3.0	3.9	8.4	11.9	16.6	16.6	19.1	24.8	18.5	24.2
2000	6.3*	0.1*	12.3*	2.2	7.0	9.5	12.8	14.7	18.2	21.6	19.6	22.2	18.6
Other medical causes													
1995	161.6*	31.6*	127.6*	39.2	51.0	63.9	90.9	133.7	197.0	317.6	543.5	1088.0	2948.1
2000	166.7*	27.8*	127.7*	24.9	45.6	59.7	86.1	143.4	205.4	328.8	599.8	1087.6	3245.0
All non-medical causes													
1995	39.1*	23.8*	38.8*	37.0	39.3	34.9	32.0	38.2	42.3	47.8	65.2	109.9	343.5
2000	37.5*	23.1*	37.1*	30.9	36.5	41.0	37.7	36.8	36.4	40.6	58.1	102.6	324.1

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

1995, 2000: NETHERLANDS

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	1523	236	7	1	228	5	32	104	6	804	336
35-69	Sm.	2231	997	780	83	134	240	31	576	-	387	-
	Total	12971	6301	1029	185	5087	378	176	3240	187	2129	560
		(17%)	(16%)	(76%)	(45%)	(3%)	(63%)	(18%)	(18%)		(18%)	
70+	Sm.	2893	650	437	92	121	844	110	817	-	472	-
	Total	52945	9517	695	304	8518	1727	3356	23235	132	13734	1244
		(5%)	(7%)	(63%)	(30%)	(1%)	(49%)	(3%)	(4%)		(3%)	
Any age	Sm.	5124	1647	1217	175	255	1084	141	1393	-	859	-
	Total	67439	16054	1731	490	13833	2110	3564	26579	325	16667	2140
		(8%)	(10%)	(70%)	(36%)	(2%)	(51%)	(4%)	(5%)		(5%)	
2000												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	1416	226	4	2	220	7	25	103	0	779	276
35-69	Sm.	2808	1330	1041	120	169	306	58	616	-	498	-
	Total	13399	6666	1307	237	5122	449	275	2896	192	2287	634
		(21%)	(20%)	(80%)	(51%)	(3%)	(68%)	(21%)	(21%)		(22%)	
70+	Sm.	4158	974	674	126	174	1183	179	1070	-	752	-
	Total	56939	10136	951	334	8851	2094	4119	22554	111	16689	1236
		(7%)	(10%)	(71%)	(38%)	(2%)	(56%)	(4%)	(5%)		(5%)	
Any age	Sm.	6966	2304	1715	246	343	1489	237	1686	-	1250	-
	Total	71754	17028	2262	573	14193	2550	4419	25553	303	19755	2146
		(10%)	(14%)	(76%)	(43%)	(2%)	(58%)	(5%)	(7%)		(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	7814.7	3667.0	3257.6	604.2	565.3	579.6	436.4	381.2	355.4	335.5	316.6	239.2	334.3
2000	8018.5	3544.6	3533.7	650.8	606.6	564.4	574.0	429.0	370.3	338.6	309.5	275.5	355.2
NUMBER OF DEATHS (Source: WHO)													
All causes													
1995	67439	1523	12971	525	765	1216	1397	1863	2833	4372	6502	8973	37470
2000	71754	1416	13399	510	809	1313	1804	2105	2748	4110	6307	9949	40683
Lung cancer													
1995	1731	7	1029	32	59	107	123	166	240	302	244	219	232
2000	2262	4	1307	20	67	155	195	231	290	349	352	298	301
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	555.9*	40.8*	477.3*	86.9	135.3	209.8	320.1	488.7	797.1	1303.1	2053.7	3751.3	11208.5
2000	551.3*	39.8*	457.9*	78.4	133.4	232.6	314.3	490.7	742.1	1213.8	2037.8	3611.3	11453.5
All cancer													
1995	158.2*	6.0*	229.7*	38.4	63.2	112.1	181.7	272.0	390.3	549.9	672.5	926.4	1547.1
2000	157.3*	5.9*	225.5*	30.1	65.3	121.2	174.2	273.2	385.9	528.4	707.9	944.8	1503.9
Lung cancer													
1995	19.6*	0.2*	37.6*	5.3	10.4	18.5	28.2	43.5	67.5	90.0	77.1	91.6	69.4
2000	23.9*	0.1*	44.4*	3.1	11.0	27.5	34.0	53.8	78.3	103.1	113.7	108.2	84.7
Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)													
1995	4.8*	0.0*	6.8*	0.3	1.8	3.5	7.1	7.1	13.2	14.3	20.5	28.0	51.5
2000	5.4*	0.1*	8.3*	0.2	1.3	3.4	5.9	11.4	15.4	20.4	23.6	29.4	50.7
Other cancer													
1995	133.8*	5.8*	185.3*	32.8	50.9	90.2	146.4	221.4	309.5	445.6	574.9	806.9	1426.3
2000	128.1*	5.7*	172.8*	26.9	52.9	90.4	134.3	207.9	292.2	404.9	570.6	807.3	1368.5
Chronic obstructive pulmonary disease (COPD)													
1995	17.2*	0.1*	14.8*	0.2	2.1	3.5	4.8	13.6	22.8	56.9	94.4	139.2	327.6
2000	19.7*	0.2*	16.6*	0.5	1.5	3.4	8.5	15.2	26.5	60.8	112.8	160.1	367.1
Other respiratory disease													
1995	24.2*	0.9*	6.8*	1.0	0.5	2.2	2.3	3.7	12.1	25.9	53.7	143.8	850.1
2000	28.6*	0.7*	9.9*	1.7	1.8	4.4	3.8	7.0	16.7	33.7	65.9	181.9	961.1
Vascular disease													
1995	201.2*	2.5*	123.7*	14.2	24.6	39.9	57.1	95.8	213.3	420.9	790.6	1667.2	5008.7
2000	179.8*	2.6*	103.1*	15.8	22.9	41.3	51.7	83.9	163.1	342.6	724.1	1393.5	4638.0
Liver cirrhosis													
1995	3.6*	0.1*	6.4*	2.3	3.5	4.5	7.6	6.6	8.2	11.9	15.2	11.3	17.1
2000	3.2*	-	6.0*	1.1	3.3	3.5	9.1	6.8	8.1	10.0	12.6	9.8	12.7
Other medical causes													
1995	131.4*	22.5*	77.8*	17.4	26.2	35.4	45.8	80.3	129.2	210.4	387.2	796.8	3171.4
2000	143.3*	22.6*	77.8*	17.2	25.6	40.0	49.7	84.6	118.3	209.1	377.7	847.5	3712.0
All non-medical causes													
1995	20.0*	8.7*	18.1*	13.4	15.2	12.2	20.9	16.8	21.4	27.1	40.1	66.5	286.6
2000	19.4*	7.7*	19.1*	12.0	13.0	18.8	17.2	20.0	23.5	29.2	36.8	73.7	258.7

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

NETHERLANDS: 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	– / 2.3	– / 1.4	–
35–69	6.7 / 22	2.8 / 13	23 years
70+	12 / 45	4.2 / 57	8 years
All ages	19 / 69	7.0 / 72	13 years

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

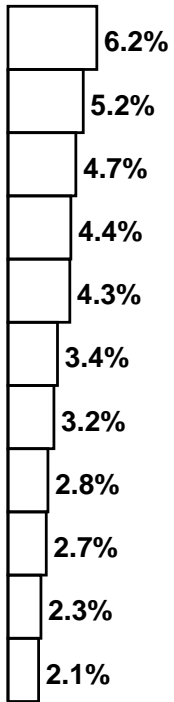
Cause	Male (by age)				Female (by age)			
	0–34	35–69	70+	All	0–34	35–69	70+	All
Lung Cancer	–/0.0	2.4/2.7	3.4/3.6	5.8/6.3	–/0.0	1.0/1.3	0.7/1.0	1.7/2.3
All Cancer	–/0.2	3.6/8.4 (43%)	5.0/12 (42%)	8.6/21	–/0.2	1.3/6.7 (20%)	1.0/10 (10%)	2.3/17
Vascular	–/0.1	1.7/6.8	2.5/17	4.2/24	–/0.1	0.6/2.9	1.1/23	1.7/26
Respiratory	–/0.0	0.6/1.0	3.2/6.6	3.8/7.7	–/0.0	0.4/0.7	1.4/6.2	1.7/7.0
All Other	–/1.9	0.9/5.4	1.2/9.4	2.2/17	–/1.1	0.5/3.1	0.8/18	1.3/22
All Causes	–/2.3	6.7/22 (31%)	12/45 (27%)	19/69	–/1.4	2.8/13 (21%)	4.2/57 (7%)	7.0/72

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

Cause	Male	Female	Male + Female
All Cancer	8.6 / 21 (42%)	2.3 / 17 (14%)	11 / 38 (29%)
All Causes	19 / 69 (27%)	7.0 / 72 (10%)	26 / 141 (18%)

1950-2000: NETHERLANDS

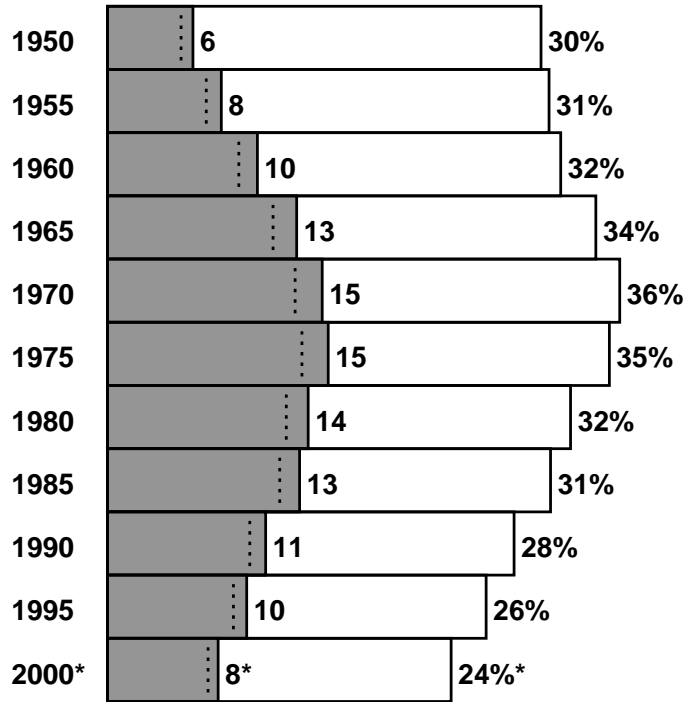
Population risk of dying at ages 0-34



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

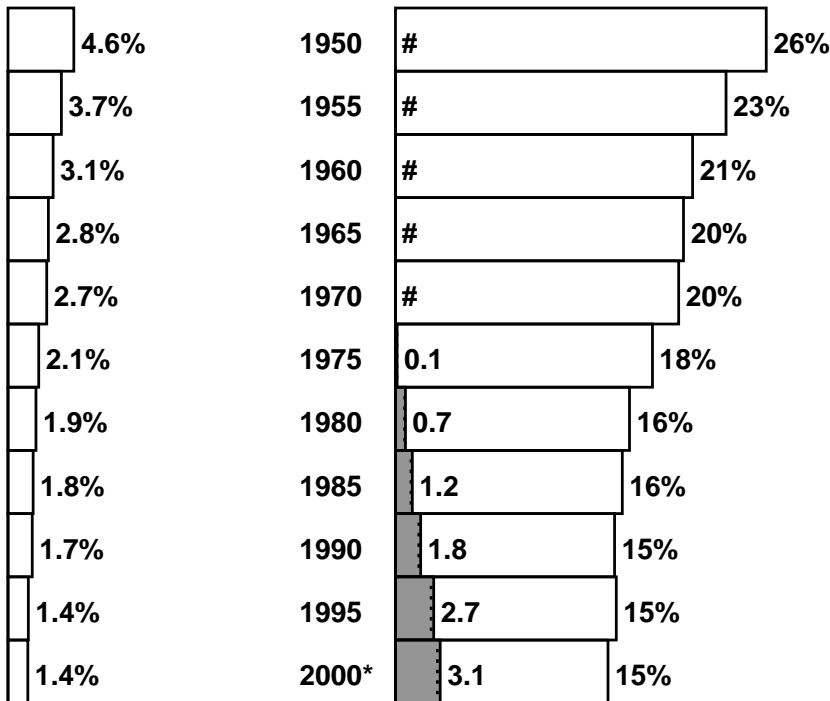
*eg, at year 2000 male death rates, out of 100 men aged 35, 24 would die before age 70 (with 8 of these deaths attributed to smoking)

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

NETHERLANDS: 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	-/6.6	3.0/14 (22%)	0.9/18 (5%)	3.9/39	-/4.7	0.0/12	0.0/20	0.0/37
1955	-/5.4	4.3/16 (27%)	1.5/22 (7%)	5.8/43	-/3.7	0.0/12	0.0/22	0.0/38
1960	-/5.0	6.0/18 (34%)	2.6/25 (10%)	8.6/47	-/3.3	0.0/12	0.0/25	0.0/40
1965	-/4.9	8.2/21 (39%)	4.3/29 (15%)	12/54	-/3.1	0.0/13	0.0/28	0.0/44
1970	-/5.0	9.9/24 (42%)	6.7/32 (21%)	17/61	-/3.0	0.0/13	0.0/32	0.0/49
1975	-/3.9	10/24 (44%)	9.2/36 (26%)	20/64	-/2.3	0.1/13 (0.7%)	0.0/35	0.1/50
1980	-/3.6	9.8/23 (43%)	11/37 (31%)	21/63	-/2.0	0.5/12 (4%)	0.2/37 (0.7%)	0.8/51
1985	-/3.1	9.8/23 (43%)	13/40 (32%)	23/66	-/1.8	0.9/12 (8%)	0.7/43 (2%)	1.6/57
1990	-/3.0	8.6/22 (38%)	13/41 (32%)	22/67	-/1.8	1.4/12 (11%)	1.3/48 (3%)	2.7/62
1995	-/2.6	7.9/22 (36%)	13/44 (29%)	21/68	-/1.5	2.2/13 (17%)	2.9/53 (5%)	5.1/67
2000	-/2.3	6.7/22 (31%)	12/45 (27%)	19/69	-/1.4	2.8/13 (21%)	4.2/57 (7%)	7.0/72

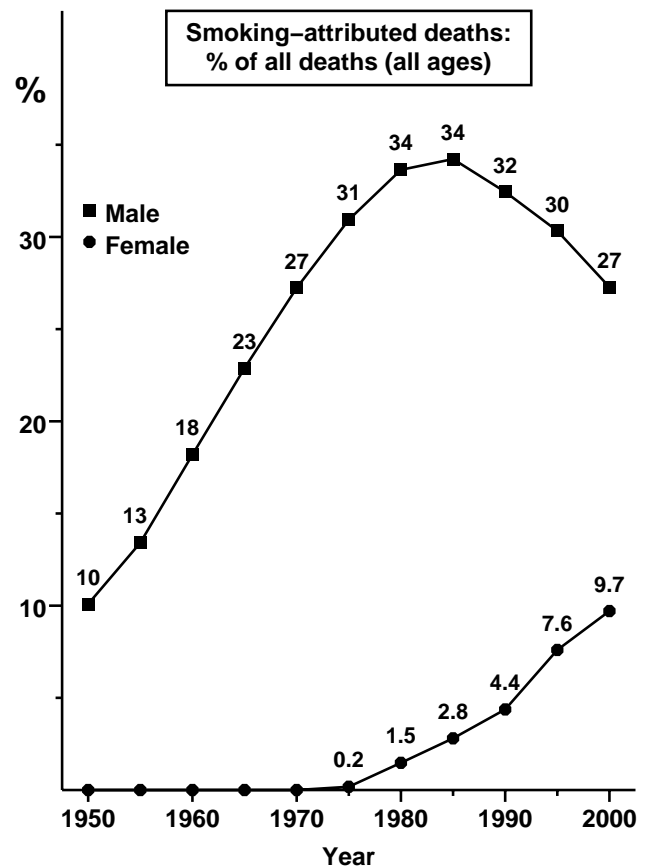
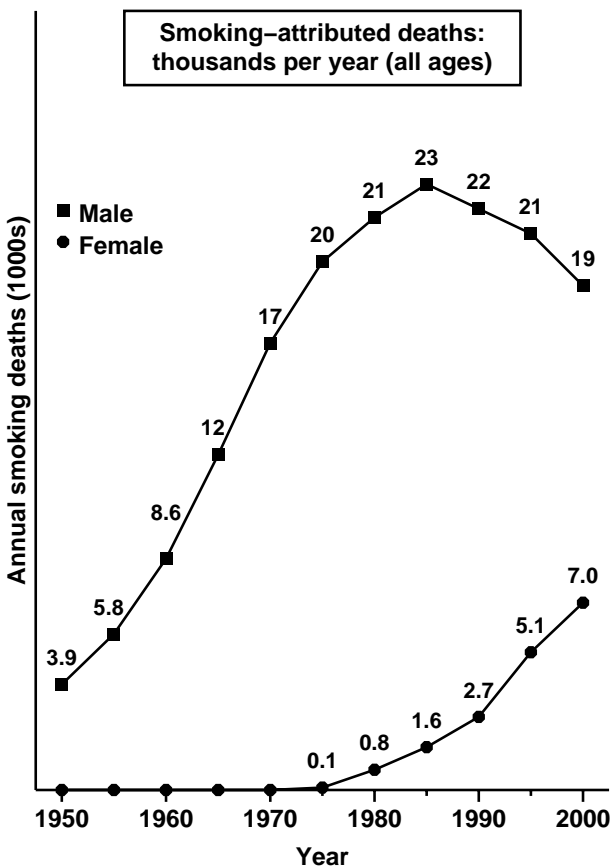
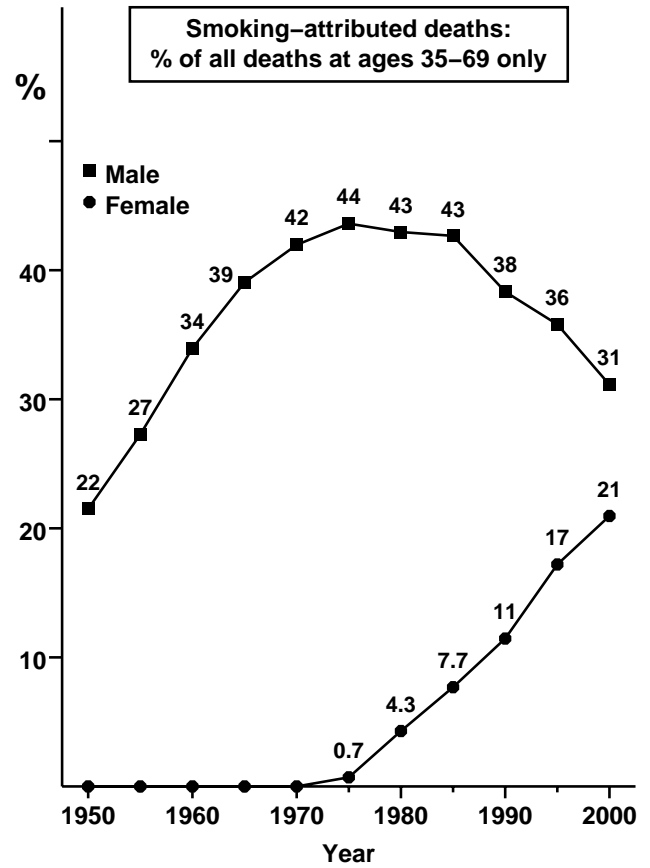
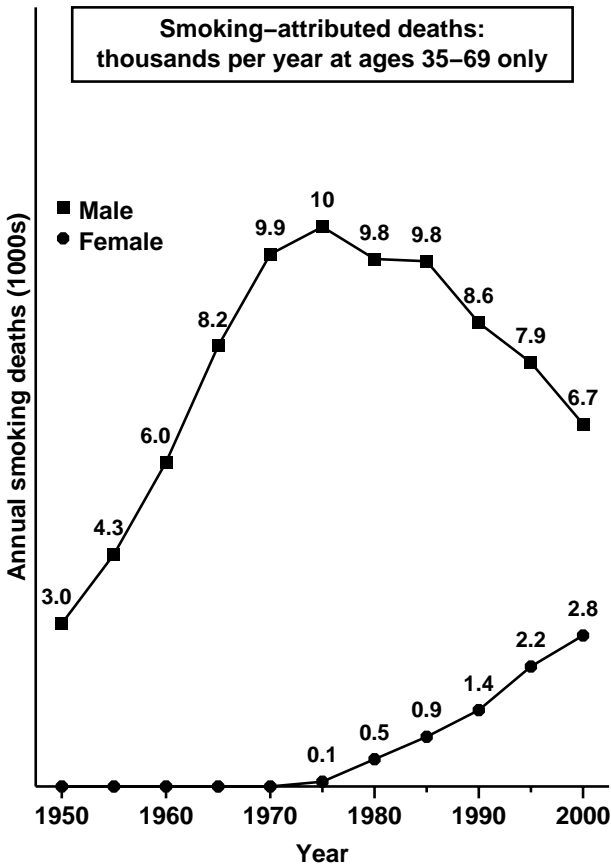
50-year total* (thousands), mid-1950 to mid-2000: **880 / 5515**

1950-2000 by age & sex:

-/199	406/1056 (38%)	406/1698 (24%)	812/2954	-/123	32/621 (5%)	36/1817 (2%)	68/2562
-------	--------------------------	--------------------------	----------	-------	-----------------------	------------------------	---------

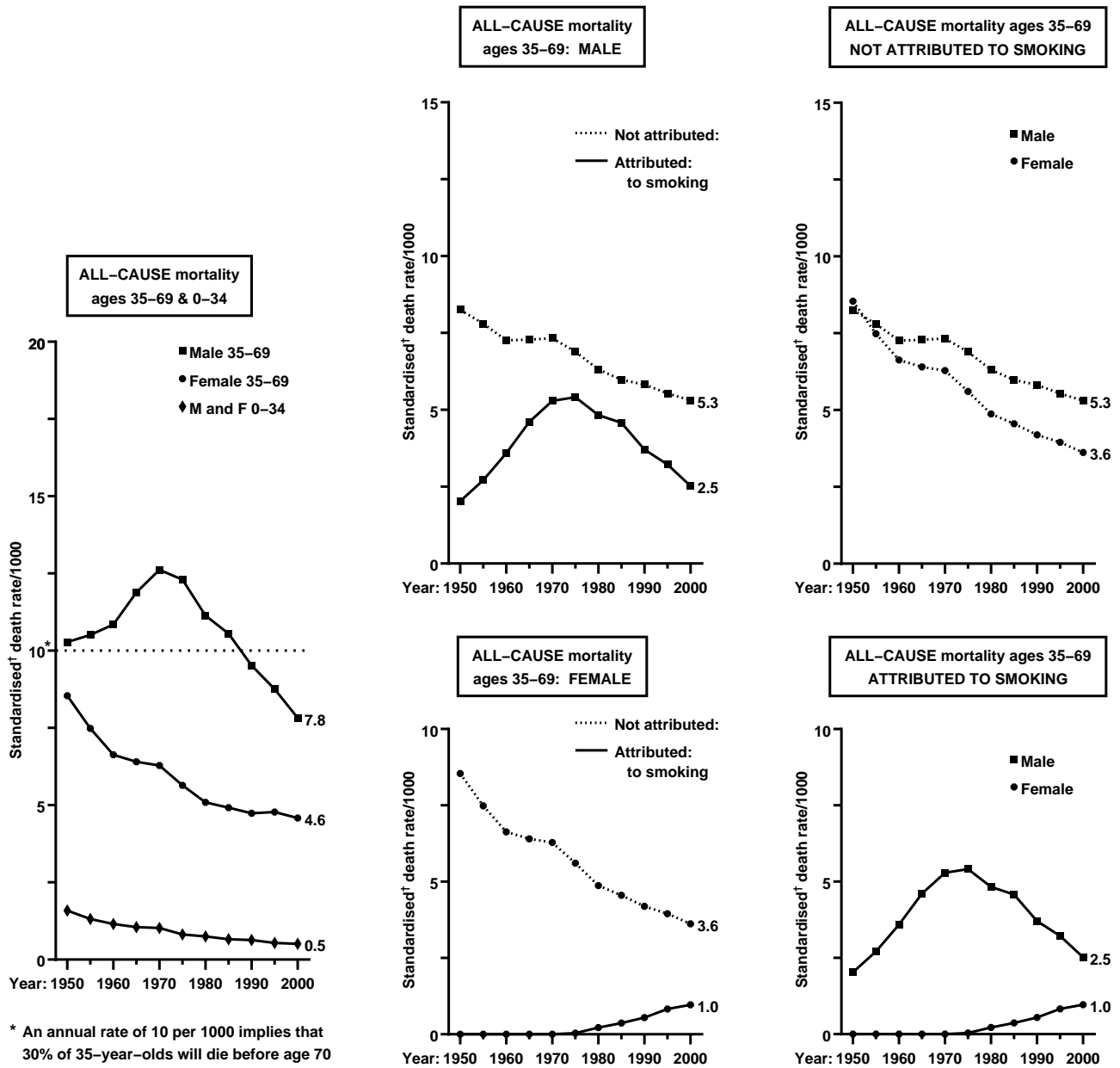
*Estimated as 10 times the sum of the annual numbers for 1955, 1965, 1975, 1985 & 1995

1950-2000: NETHERLANDS



NETHERLANDS: 1950-2000

ALL-CAUSE mortality rates attributed and not attributed to smoking



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

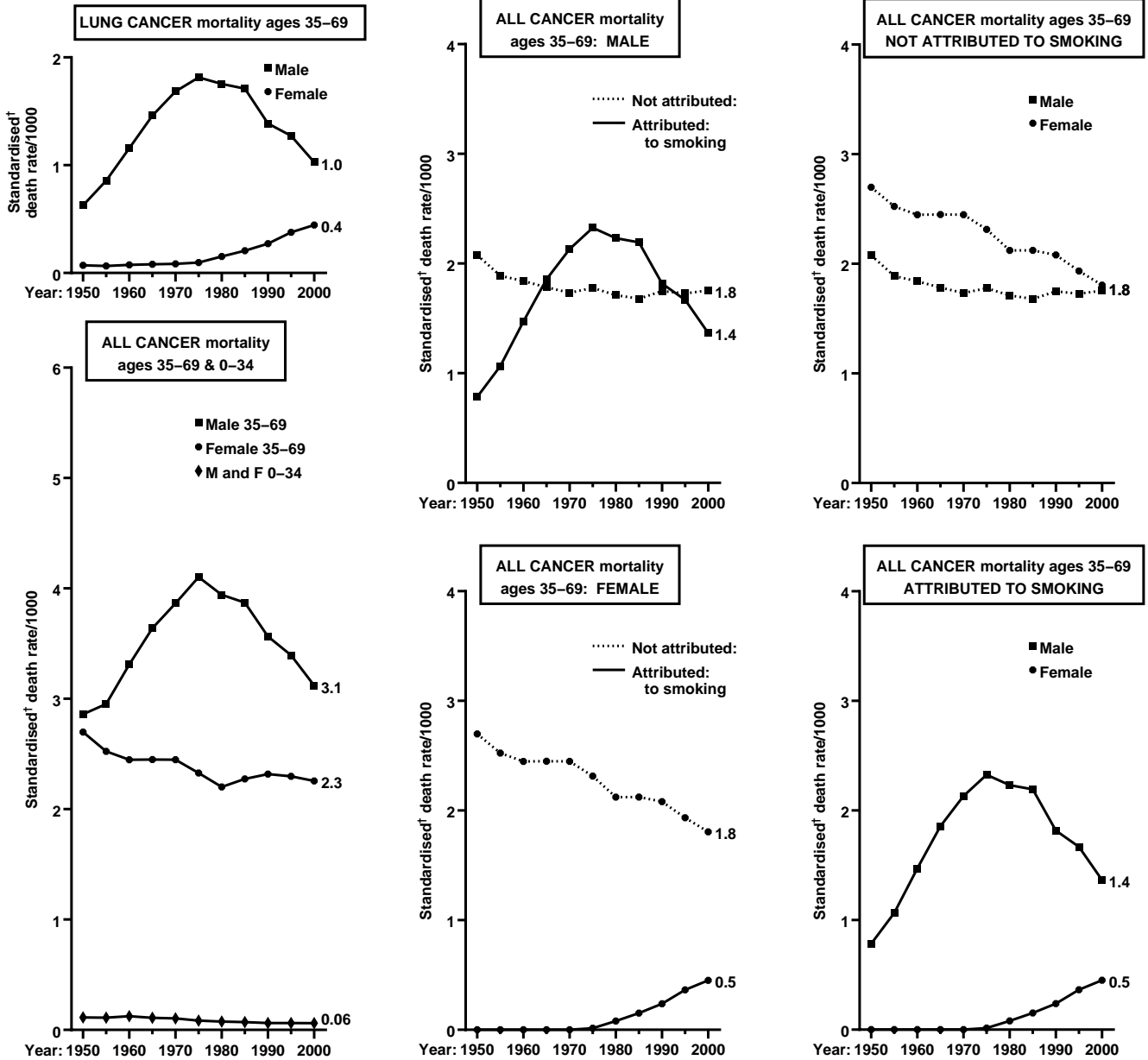
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

Year	MALE all-cause mortality (annual rate/1000, by age)								FEMALE all-cause mortality (annual rate/1000, by age)									
	0-34		35-69		70-79		0-34		35-69		70-79		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	-	1.83	2.03	8.25	3.55	59.4	-	1.34	0.00	8.54	0.00	59.9						
1955	-	1.54	2.71	7.80	4.94	58.7	-	1.08	0.00	7.48	0.00	55.1						
1960	-	1.38	3.59	7.26	7.62	52.9	-	0.91	0.00	6.63	0.00	50.9						
1965	-	1.28	4.60	7.28	11.2	52.5	-	0.82	0.00	6.40	0.00	47.5						
1970	-	1.26	5.29	7.33	16.5	50.9	-	0.78	0.00	6.28	0.00	44.5						
1975	-	1.00	5.41	6.89	20.0	46.8	-	0.62	0.04	5.60	0.00	40.7						
1980	-	0.93	4.82	6.31	23.2	42.7	-	0.56	0.22	4.87	0.23	33.8						
1985	-	0.81	4.57	5.98	23.1	41.9	-	0.51	0.36	4.55	0.70	31.2						
1990	-	0.77	3.70	5.81	21.6	39.8	-	0.49	0.54	4.19	1.21	28.6						
1995	-	0.66	3.22	5.53	18.9	39.5	-	0.41	0.83	3.95	2.14	26.9						
2000	-	0.62	2.52	5.30	16.0	37.4	-	0.40	0.96	3.62	3.05	25.2						

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

1950-2000: NETHERLANDS

ALL CANCER mortality rates attributed and not attributed to smoking



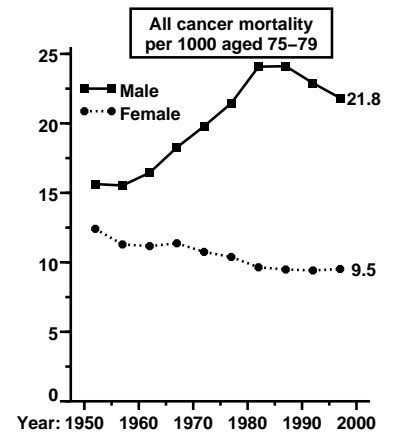
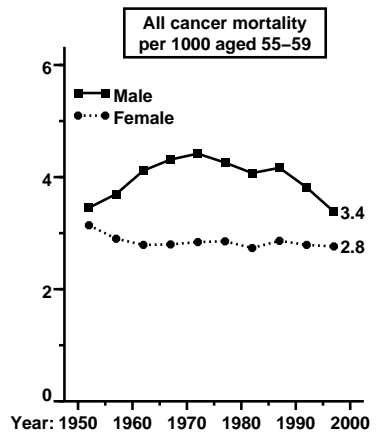
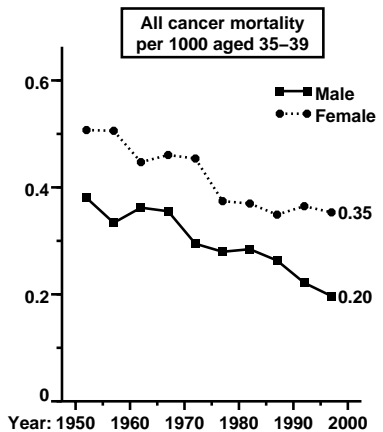
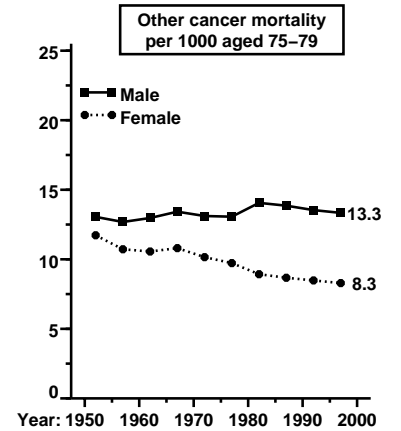
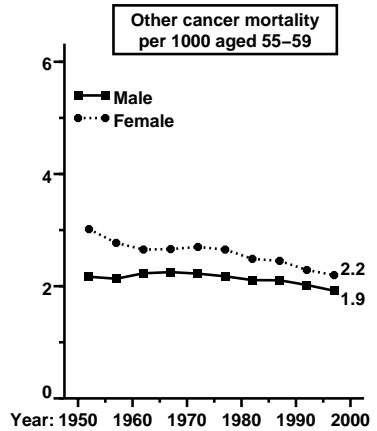
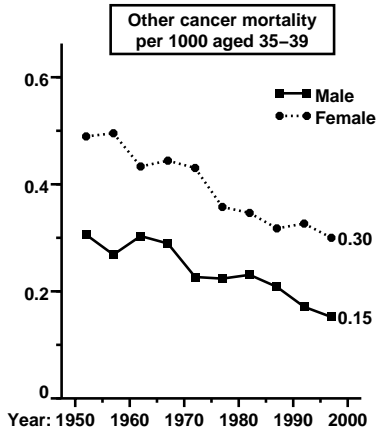
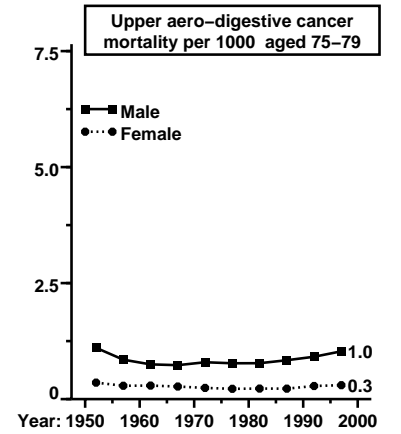
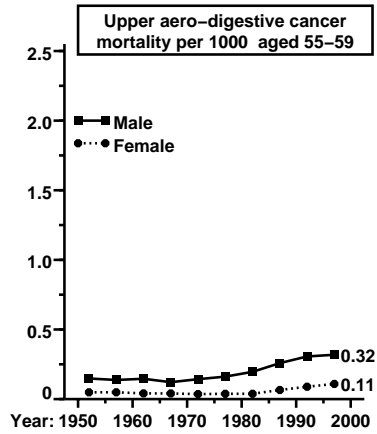
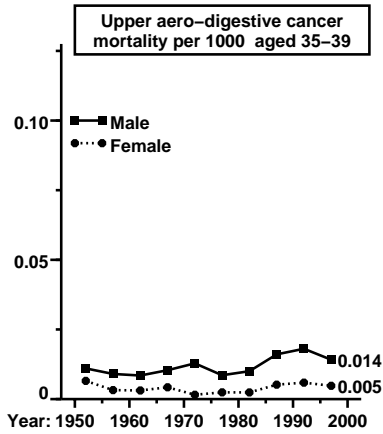
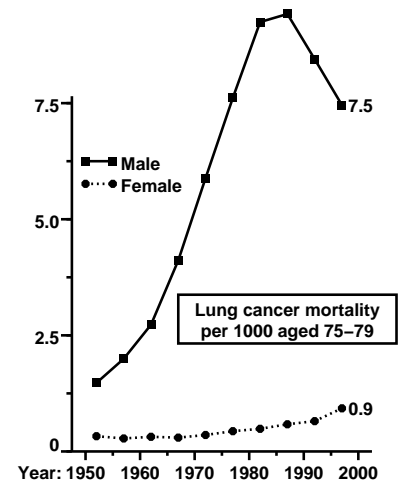
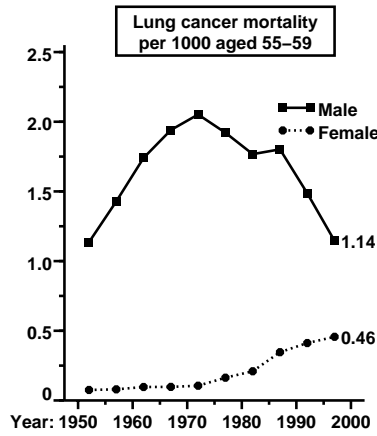
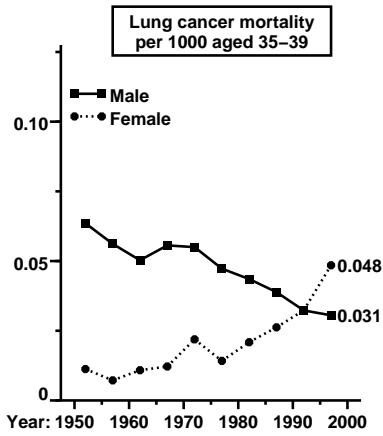
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

Year	MALE cancer mortality (annual rate/1000, by age)								FEMALE cancer mortality (annual rate/1000, by age)					
	0-34		35-69		70-79		0-34		35-69		70-79			
	Attributed to smoking?		Yes	No	Yes	No	Yes	No	Yes	No	Yes	No		
1950	-	0.12	0.78	2.08	1.46	12.1	-	0.11	0.00	2.70	0.00	11.0		
1955	-	0.12	1.06	1.89	2.03	11.4	-	0.10	0.00	2.52	0.00	10.0		
1960	-	0.14	1.47	1.84	3.19	10.6	-	0.11	0.00	2.45	0.00	9.54		
1965	-	0.11	1.86	1.78	4.78	10.7	-	0.11	0.00	2.45	0.00	9.65		
1970	-	0.11	2.13	1.73	6.91	9.82	-	0.10	0.00	2.45	0.00	9.12		
1975	-	0.09	2.33	1.78	8.69	9.83	-	0.08	0.01	2.31	0.00	9.27		
1980	-	0.08	2.23	1.71	11.1	9.74	-	0.07	0.08	2.12	0.07	8.25		
1985	-	0.08	2.19	1.68	10.9	9.38	-	0.06	0.15	2.12	0.22	8.08		
1990	-	0.06	1.82	1.75	10.2	9.73	-	0.06	0.24	2.08	0.38	7.76		
1995	-	0.06	1.67	1.73	9.01	9.65	-	0.06	0.36	1.93	0.71	7.28		
2000	-	0.06	1.36	1.75	7.81	9.65	-	0.06	0.45	1.80	1.05	7.21		

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

NETHERLANDS: 1950-2000

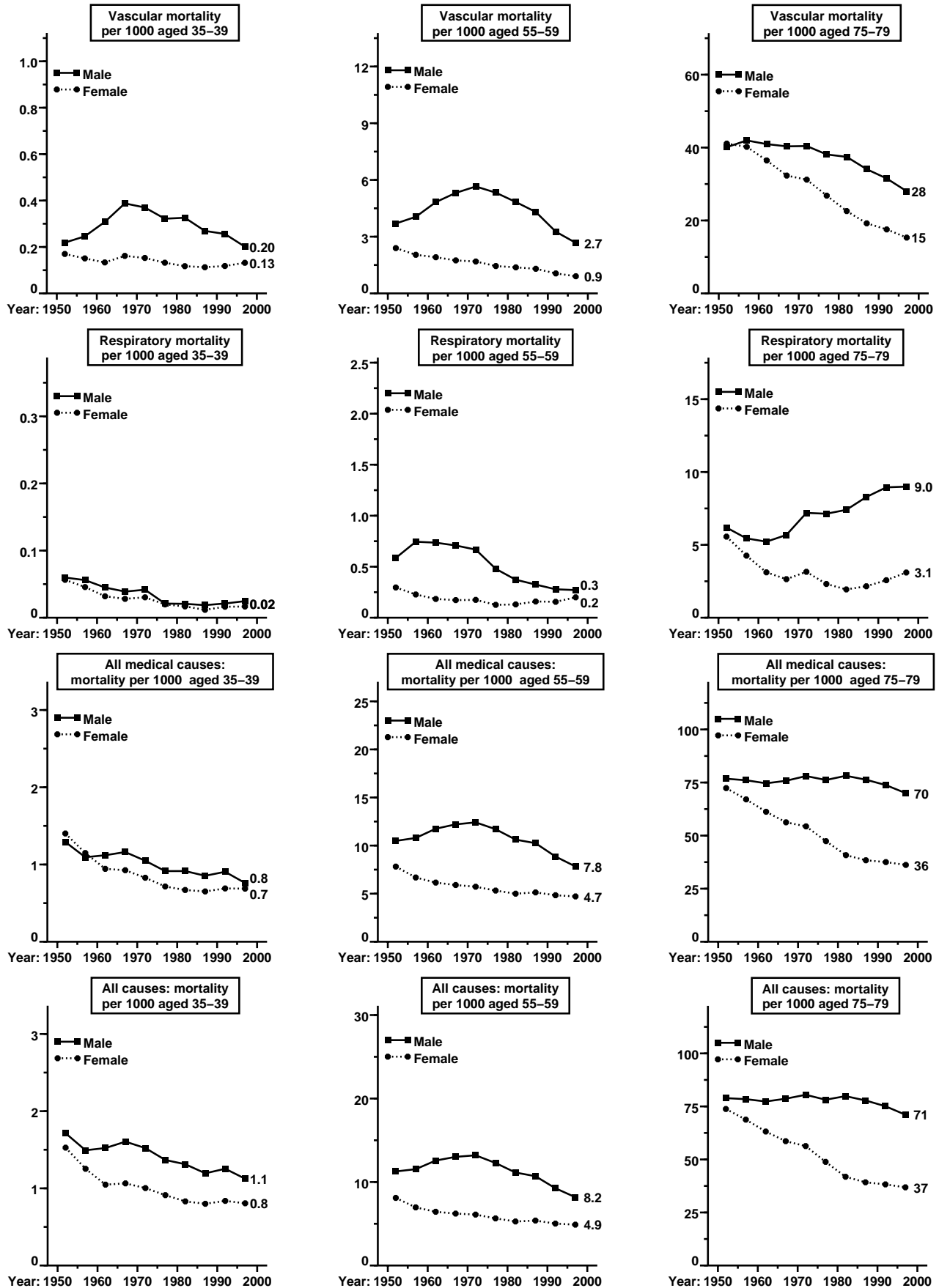
Mortality* trends at selected ages: 35-39, 55-59 & 75-79



* Annual mortality per 1000: averages of years available in 1950-54,.....,1995-99; year 2000 on pages 338-339

1950-2000: NETHERLANDS

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 338-339