

**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

BELGIUM

Raw data (pages 86–87, 88–89)

Analyses (pages 90–91, 92–93, 94–95)

Appendix (pages 96–97)

BELGIUM: 2000[†]

[†]1997 rates applied
to 2000 population

		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	52330	2024	16578	886.4	86.7	855.1	133.4	11.5	17.6	74.9	129.4	113.5	126.3
	F	52573	955	8783	534.6	43.5	425.8	108.4	8.7	15.5	32.0	43.7	39.2	57.3
Tuberculosis	M	83	-	25	1.4	-	1.3	-	-	-	-	-	-	-
	F	32	-	10	0.3	-	0.5	-	-	-	-	-	-	-
HIV	M	66	13	47	1.2	0.5	2.0	0.3	0.3	-	-	-	-	2.8
	F	23	12	11	0.5	0.5	0.4	0.7	-	0.3	-	0.3	1.2	1.1
Other infective and parasitic	M	506	14	144	8.5	0.6	7.5	2.1	0.3	-	1.3	-	0.6	0.3
	F	730	21	90	7.2	1.0	4.4	3.6	-	0.3	1.3	0.6	0.6	0.5
ALL CANCER	M	16150	158	6536	272.1	6.7	346.5	7.2	2.6	4.2	5.4	8.4	6.5	12.6
	F	11800	138	4041	143.8	5.9	196.7	3.9	3.0	3.7	4.3	5.5	5.6	15.5
Mouth and pharynx cancer	M	456	4	320	8.4	0.2	15.5	-	-	-	0.3	0.3	-	0.5
	F	122	-	73	1.8	-	-	-	-	-	-	-	-	-
Oesophagus cancer	M	443	1	260	7.8	0.0	13.3	-	-	-	-	-	-	0.3
	F	134	-	42	1.5	-	2.0	-	-	-	-	-	-	-
Stomach cancer	M	650	3	234	10.8	0.1	12.4	-	-	-	-	-	-	0.8
	F	504	3	78	5.1	0.1	3.9	-	-	-	-	-	0.6	0.3
Colorectal cancer	M	1539	4	550	25.7	0.2	29.4	-	-	-	-	0.3	0.9	-
	F	1644	6	367	17.7	0.3	18.2	-	-	-	0.3	0.3	0.3	0.8
Liver cancer	M	269	3	123	4.5	0.1	6.6	1.0	-	-	-	-	-	-
	F	174	1	46	1.9	0.1	2.3	0.4	-	-	-	-	-	-
Pancreas cancer	M	625	2	279	10.5	0.1	15.1	-	-	-	0.3	-	-	0.3
	F	649	-	172	7.3	-	8.5	-	-	-	-	-	-	-
Larynx cancer	M	312	1	190	5.5	0.0	9.5	-	-	-	-	-	-	0.3
	F	57	-	28	0.8	-	1.4	-	-	-	-	-	-	-
Lung cancer	M	5721	8	2636	96.2	0.3	141.8	-	-	-	-	0.3	0.3	1.5
	F	1080	4	504	14.5	0.2	24.8	-	-	-	-	-	0.6	0.5
Malignant melanoma	M	117	4	71	2.1	0.2	3.3	-	-	-	-	0.3	0.3	0.5
	F	117	6	47	1.6	0.2	2.3	-	-	-	-	-	0.3	1.3
Female breast cancer	F	2399	23	1203	33.5	0.9	57.7	-	0.3	-	-	-	1.2	4.8
Cervix cancer	F	220	5	121	3.2	0.2	5.5	-	-	-	-	-	0.3	1.1
Other uterine cancer	F	375	2	106	4.3	0.1	5.2	-	-	-	-	-	-	0.5
Ovarian cancer	F	810	11	340	10.5	0.5	16.7	-	-	-	-	1.3	0.3	1.6
Prostate cancer	M	1957	-	275	31.6	-	15.7	-	-	-	-	-	-	-
Bladder cancer	M	619	-	184	10.1	-	10.1	-	-	-	-	-	-	-
	F	241	-	40	2.3	-	2.0	-	-	-	-	-	-	-
Other and ill-defined cancer sites	M	2308	73	994	39.7	3.1	51.6	4.4	1.6	2.2	2.2	3.7	2.6	5.1
	F	2272	56	617	26.2	2.5	30.2	2.1	2.3	3.0	2.0	2.9	2.0	3.2
Hodgkin's disease	M	38	-	21	0.7	-	1.1	-	-	-	-	-	-	-
	F	26	2	12	0.3	0.1	0.6	-	-	-	0.3	-	-	0.3
Myeloma and non- Hodgkin lymphomas	M	582	8	245	9.8	0.3	13.1	-	-	-	0.6	0.3	0.6	0.8
	F	557	3	142	6.3	0.1	7.1	-	-	-	-	0.3	-	0.5
Leukaemia	M	514	47	154	8.7	2.0	7.9	1.7	1.0	1.9	1.9	3.1	2.0	2.6
	F	419	16	103	4.8	0.8	5.1	1.4	0.3	0.7	1.7	0.6	-	0.5
Diabetes	M	592	5	178	9.8	0.2	9.2	-	-	-	-	-	0.6	0.8
	F	1121	3	155	10.7	0.1	7.8	-	-	-	-	-	0.3	0.5
ALL VASCULAR DISEASE	M	17243	90	4620	287.1	3.7	243.7	1.7	0.3	0.6	4.5	4.1	4.8	9.7
	F	21305	44	1971	192.2	1.8	97.5	0.7	-	0.3	2.7	0.6	2.3	6.2
Rheumatic heart disease and fever	M	27	-	4	0.5	-	0.2	-	-	-	-	-	-	-
	F	45	-	8	0.5	-	0.4	-	-	-	-	-	-	-
Hypertensive disease	M	177	-	51	3.0	-	2.7	-	-	-	-	-	-	-
	F	377	-	35	3.4	-	1.8	-	-	-	-	-	-	-
Ischaemic heart disease	M	6781	23	2352	113.2	0.9	123.5	-	-	-	0.3	0.3	1.4	4.1
	F	5319	4	711	50.8	0.2	35.4	-	-	-	-	-	-	1.1
Pulmonary embolism and other venous	M	265	2	73	4.4	0.1	3.8	-	-	-	-	-	-	0.5
	F	509	4	71	5.0	0.2	3.5	-	-	-	-	0.3	0.3	0.5
Cerebrovascular disease	M	3714	27	771	61.3	1.1	40.9	-	-	0.3	1.9	1.6	0.9	3.1
	F	5890	19	537	53.2	0.8	26.3	0.4	-	0.3	1.0	-	1.5	2.4
Other vascular disease	M	6279	38	1369	104.8	1.6	72.5	1.7	0.3	0.3	2.2	2.2	2.6	2.1
	F	9165	17	609	79.4	0.7	30.2	0.4	-	-	1.7	0.3	0.6	2.1
Chronic obstructive pulmonary disease	M	3437	5	763	55.9	0.2	42.5	-	-	0.3	0.3	-	-	0.8
	F	1589	7	265	15.9	0.3	13.3	-	-	-	0.7	-	0.6	0.8
Other respiratory disease	M	2876	25	433	47.6	1.1	23.3	3.8	0.3	0.3	0.6	0.9	1.4	0.5
	F	2949	13	189	25.6	0.6	9.3	0.4	0.3	0.7	0.7	-	0.9	1.1
Peptic ulcer	M	184	1	48	3.0	0.0	2.4	-	-	-	-	-	0.3	-
	F	233	-	22	2.1	-	1.1	-	-	-	-	-	-	-
Liver cirrhosis	M	843	11	601	15.3	0.4	28.3	-	-	-	-	-	-	2.8
	F	510	3	316	7.7	0.1	14.4	-	-	-	-	-	-	0.8
Renal disease	M	505	4	73	8.3	0.2	3.9	0.3	-	-	-	-	0.3	0.5
	F	712	3	68	6.5	0.1	3.4	-	-	-	-	0.3	-	0.5
Pregnancy, birth Congenital and perinatal causes	F	10	8	2	0.2	0.3	0.1	-	-	-	-	0.6	0.9	0.8
	M	263	245	16	6.9	11.8	0.7	76.9	1.0	0.3	1.0	0.6	1.7	1.3
	F	234	203	28	6.3	10.2	1.3	66.9	0.3	0.3	1.0	0.3	1.8	1.1
Ill-defined causes	M	1173	88	294	20.7	4.0	15.0	20.5	0.3	-	-	1.9	1.7	3.8
	F	1938	41	139	17.6	2.1	6.7	13.2	-	-	0.3	0.3	0.6	-
Other medical causes	M	4346	127	966	73.0	5.4	48.8	5.5	1.3	1.6	4.8	10.0	5.4	9.2
	F	7149	77	685	65.9	3.6	33.3	8.9	1.7	2.7	2.3	4.2	1.2	4.0
ALL NON- MEDICAL CAUSES	M	4063	1238	1834	75.5	51.8	80.1	15.0	5.1	10.3	57.1	103.6	90.2	81.2
	F	2238	382	791	32.0	16.8	35.4	10.0	3.3	7.1	18.7	30.9	23.4	24.4
Road traffic accidents	M	1089	542	397	20.9	22.9	17.1	2.7	2.2	5.1	29.0	56.8	38.6	26.1
	F	392	161	154	7.1	7.2	7.0	1.8	1.7	5.7	11.7	14.1	7.9	7.5
Fire	M	65	16	31	1.2	0.7	1.4	1.4	0.6	-	-	0.9	0.6	1.3
	F	40	9	12	0.6	0.4	0.6	1.1	0.3	-	0.3	0.3	0.3	0.5
Suicide	M	1549	404	856	28.6	16.4	36.8	-	-	2.2	16.3	26.5	32.9	37.2
	F	590	112	367	10.4	4.7	16.1	-	-	-	3.7	8.4	10.5	10.4
Homicide	M	98	46	46	1.9	2.0	1.8	1.7	0.3	0.3	1.3	5.0	3.7	1.5
	F	82	32	42	1.5	1.4	1.7	1.4	0.3	0.7	1.0	1.9	2.6	1.9
POPULATION: (1000s; UN, 2004 revision)			M=male		5049.0	2294.0	2285.3	292.4	312.7	312.1	313.6	320.6	352.4	390.2
			F=female		5254.8	2203.4	2297.1	279.6	299.9	297.7	299.8	311.1	341.9	373.4

2000[†]: BELGIUM

†1997 rates applied to 2000 population

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			
156.8	233.2	384.2	602.8	935.7	1359.0	2314.3	3841.5	6208.3	14504.4	M	ALL CAUSES	001-999/A00-Y89
84.8	137.8	222.9	321.0	476.5	690.8	1046.6	1869.6	3365.9	11504.8	F		
-	0.3	0.8	0.6	1.9	2.4	3.3	6.9	13.7	20.4	M	Tuberculosis	010-018, 137/ A15-A19, B90
-	0.3	-	0.3	-	0.7	2.2	0.8	2.6	5.3	F		
3.6	2.0	1.9	1.7	0.4	1.2	2.9	1.0	2.6	-	M	HIV	279.5, 279.6/B20-B24
1.2	0.3	0.8	0.3	0.4	-	-	-	-	-	F		
1.7	1.5	2.5	4.6	8.5	15.4	18.5	38.4	65.1	150.4	M	Other infective and parasitic	Rest of 001-139/rest of A00-B99 excl A33,A34
0.5	1.5	1.4	2.7	4.6	7.8	12.6	28.0	49.3	164.7	F		
22.1	48.8	124.4	236.0	402.8	596.1	995.5	1426.4	1957.7	3143.4	M	ALL CANCER	140-208/C00-C97
30.1	55.0	106.7	159.0	254.7	342.1	429.6	648.4	857.3	1505.1	F		
1.9	4.5	12.8	22.8	25.8	20.1	20.6	26.1	29.3	30.1	M	Mouth and pharynx cancer	140-149/C00-C14
0.5	2.3	2.5	4.4	5.3	4.4	4.3	4.6	6.1	8.8	F		
0.2	3.3	8.2	13.0	19.6	17.8	30.9	36.4	33.2	50.4	M	Oesophagus cancer	150/C15
0.2	1.0	0.6	2.7	1.5	3.3	4.7	6.1	7.8	22.1	F		
0.2	3.0	2.5	9.8	14.2	22.1	35.0	53.7	91.8	144.2	M	Stomach cancer	151/C16
1.0	0.3	1.7	1.8	4.2	8.9	9.4	28.0	37.2	100.6	F		
2.6	5.0	10.9	13.3	29.6	56.8	87.3	134.9	188.8	372.6	M	Colorectal cancer	153, 154/C18-C21
2.0	3.4	9.0	10.9	22.4	34.0	45.5	93.9	124.1	281.7	F		
0.5	-	1.6	4.6	6.9	12.2	20.6	25.6	36.5	31.0	M	Liver cancer	155.0/C22 excl C221
0.2	0.5	0.8	0.6	1.9	4.1	7.9	12.7	14.3	23.3	F		
0.5	1.3	4.6	6.4	18.9	30.0	44.5	47.8	84.6	103.5	M	Pancreas cancer	157/C25
0.5	1.5	3.4	7.4	7.6	15.9	23.1	45.6	58.0	85.4	F		
0.5	2.8	6.5	11.6	13.5	14.2	17.3	19.7	29.3	31.9	M	Larynx cancer	161/C32
-	-	1.4	1.5	3.0	1.8	1.8	2.3	6.1	3.4	F		
3.8	11.8	39.7	92.1	167.0	251.7	426.7	593.3	684.2	726.5	M	Lung cancer	162/C33, C34
2.5	4.9	12.9	19.1	32.6	45.4	56.0	66.3	77.0	84.3	F		
1.9	1.3	3.5	3.8	2.3	2.8	7.8	8.9	5.2	14.2	M	Malignant melanoma	172/C43
0.5	1.0	1.7	1.2	3.4	4.1	4.0	7.3	9.1	9.1	F		
9.7	21.2	37.0	59.2	85.8	90.9	100.1	114.6	135.4	213.9	F	Female breast cancer	174/C50
2.5	4.1	6.7	4.4	6.1	8.1	6.5	9.6	8.2	19.1	F	Cervix cancer	180/C53
1.0	1.0	2.0	2.7	4.6	11.1	14.5	24.2	33.3	48.4	F	Other uterine cancer	179, 182/C54, C55
1.2	4.1	8.1	13.3	20.1	32.1	37.9	47.2	59.3	75.9	F	Ovarian cancer	183/C56, C570-C574
-	0.5	1.1	1.7	10.0	27.2	69.2	144.8	313.2	802.7	M	Prostate cancer	185/C61
0.2	0.5	2.5	3.8	10.0	17.8	36.2	60.6	89.8	154.0	M	Bladder cancer	188/C67
-	0.5	0.3	1.2	1.5	3.3	7.2	8.4	18.6	51.8	F		
4.8	12.0	23.1	39.0	65.0	82.8	134.7	174.3	245.4	451.3	M	Other and ill-defined cancer sites	Rest of 140-199/ rest of C00-C80, C97
5.7	5.9	13.4	23.6	38.0	52.1	73.0	109.7	172.1	348.8	F		
-	0.3	0.8	0.9	1.9	2.4	1.2	3.9	2.0	5.3	M	Hodgkin's disease	201/C81
0.5	0.3	0.3	-	-	1.1	1.8	0.8	1.3	2.7	F		
1.4	1.8	3.3	7.5	12.7	24.9	40.4	50.2	69.7	106.2	M	Myeloma and non- Hodgkin lymphomas	200, 202-203/ C82-C90, C96
0.7	1.5	2.8	3.2	10.6	12.6	18.1	43.7	54.1	66.0	F	Leukaemia	204-208/C91-C95
3.4	1.0	3.3	5.8	5.4	13.4	23.1	46.3	54.7	119.5	M		
1.2	1.3	2.2	2.1	6.1	8.9	13.7	23.4	35.5	59.9	F		
1.4	2.8	2.7	7.5	8.5	14.2	27.6	50.2	84.6	156.6	M	Diabetes	250/E10-E14
0.5	1.8	1.4	3.2	3.4	15.9	28.2	45.6	91.7	240.9	F		
19.9	52.1	90.7	157.1	267.8	388.6	729.4	1261.4	2240.9	5777.9	M	ALL VASCULAR DISEASE	390-459/I00-I99
12.7	21.9	34.2	53.9	80.5	157.7	321.9	666.4	1407.0	5451.4	F		
-	-	-	0.3	0.8	-	0.4	3.0	2.6	11.5	M	Rheumatic heart disease and fever	390-398/I00-I09
-	-	0.3	-	0.4	0.4	1.8	2.7	3.9	8.0	F		
-	0.3	2.2	0.9	2.7	4.3	8.6	13.3	19.5	61.1	M	Hypertensive disease	401-405/I10-I15
-	-	0.6	0.9	1.5	2.6	6.9	13.4	20.3	99.1	F		
10.1	24.5	52.0	83.2	146.6	201.2	346.8	576.1	887.4	1657.5	M	Ischaemic heart disease	410-414/I20-I25
2.5	6.2	11.2	20.3	27.0	60.6	120.3	223.9	454.6	1131.9	F		
1.0	0.8	1.9	2.6	3.5	5.1	11.5	17.2	39.1	84.1	M	Pulmonary embolism and other venous	415.1, 451-453/ I26, I80-I82
0.5	1.3	0.8	2.7	3.0	5.9	10.1	22.6	44.1	104.1	F		
2.2	11.5	12.0	23.7	41.6	64.7	131.0	234.9	545.6	1416.8	M	Cerebrovascular disease	430-438/I60-I69
4.7	7.2	12.6	14.7	23.9	41.4	79.5	181.7	383.2	1515.1	F		
6.7	15.0	22.6	46.5	72.7	113.2	231.1	417.0	746.7	2546.9	M	Other vascular disease	Rest of 390-459/ rest of I00-I99
5.0	7.2	8.7	15.3	24.7	46.9	103.3	222.0	500.9	2593.2	F		
1.4	4.0	5.2	11.6	34.6	76.5	163.9	312.7	502.6	1116.8	M	Chronic obstructive pulmonary disease	490-496/ J40-J47, J67
0.5	1.0	2.8	10.0	15.9	27.7	35.4	69.4	118.1	329.0	F		
1.7	3.5	5.2	13.3	21.5	41.4	76.6	186.6	380.9	1286.7	M	Other respiratory disease	Rest of 460-519/ rest of J00-J98
1.0	1.8	3.6	7.4	9.9	14.8	26.7	65.2	134.5	863.9	F		
1.2	0.5	1.4	2.3	0.8	3.9	6.6	12.3	24.7	63.7	M	Peptic ulcer	531-533/K25-K27
0.2	0.3	0.6	0.6	1.1	1.5	3.3	7.7	15.1	59.5	F		
7.7	16.3	25.9	36.7	44.6	30.0	37.1	46.3	62.5	36.3	M	Liver cirrhosis	571/K70, K74
6.2	8.3	16.0	15.3	14.8	17.7	22.8	23.4	24.7	27.8	F		
0.7	0.8	0.8	2.3	4.2	6.7	11.5	27.1	84.0	215.9	M	Renal disease	580-590/N00-N19
0.2	0.3	0.8	3.2	2.3	6.6	10.1	27.2	48.9	174.2	F		
0.5	-	-	-	-	-	-	-	-	-	F	Pregnancy, birth	630-676/A34,000-099
0.5	0.8	0.8	0.6	0.8	0.4	1.2	0.5	0.7	-	M	Congenital and perinatal causes	740-779/A33, P00-P96, Q00-Q99
0.2	1.0	1.4	1.5	3.0	1.5	0.4	-	-	1.1	F	Ill-defined causes	780-799/R00-R99
2.4	5.0	6.8	11.6	18.9	27.2	33.4	62.0	98.3	454.9	M		
1.5	2.3	3.9	4.4	8.7	9.2	17.0	34.1	77.4	568.1	F		
10.8	16.0	29.7	39.9	41.9	74.6	128.5	291.5	504.6	1669.0	M	Other medical causes	Rest of 001-799/ rest of A00-R99
6.0	12.1	16.2	21.8	38.0	48.0	91.0	198.2	452.9	1838.7	F		
81.7	78.9	85.5	77.1	78.5	80.5	78.3	118.2	185.5	412.4	M	ALL NON- MEDICAL CAUSES	E800-E999/V01-Y89
23.4	29.9	33.0	37.4	39.1	39.5	45.5	55.2	86.5	274.9	F		
23.3	17.5	15.2	15.3	13.9	17.0	17.3	26.1	35.8	37.2	M	Road traffic accidents	E810-E819, E826-E829/ part of V01-V99, Y850
4.7	5.7	4.2	7.4	6.8	8.5	11.6	8.1	10.4	12.2	F		
1.4	1.0	0.3	2.3	1.2	2.0	1.6	3.0	3.3	6.2	M	Fire	E890-E899/X00-X09
0.5	-	0.6	0.3	0.4	1.5	0.7	3.1	1.3	3.0	F		
37.2	40.8	43.6	37.3	37.3	32.7	28.4	38.9	65.1	97.3	M	Suicide	E950-E959/X60-X84
11.9	15.5	19.9	17.4	21.3	15.1	11.6	14.6	14.7	14.9	F		
3.8	2.8	1.1	2.0	1.9	0.8	0.4	1.0	2.6	-	M	Homicide	E960-E969/ X85-X99, Y00-Y09
2.5	3.6	0.6	1.8	1.5	0.4	1.8	-	2.6	0.8	F		
416.4	399.2	367.3	346.2	259.9	253.5	242.8	203.1	153.6	113.0	M	POPULATION	
401.9	387.6	357.1	339.6	263.4	270.7	276.8	260.8	231.2	262.3	F	(1000s; UN, 2004 revision)	

BELGIUM: 1995, 2000[‡][‡]2000 mortality involves 1997 rates applied to 2000 population**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	2312	129	4	0	125	12	19	101	9	692	1350
35-69	Sm.	7438	4024	2753	558	713	761	162	1721	-	770	-
	Total	18038 (41%)	7153 (56%)	2912 (95%)	780 (72%)	3461 (21%)	917 (83%)	482 (34%)	4889 (35%)	525	2125 (36%)	1947
70+	Sm.	9555	4014	2707	254	1053	2126	347	2178	-	890	-
	Total	32686 (29%)	8990 (45%)	2886 (94%)	367 (69%)	5737 (18%)	2636 (81%)	2064 (17%)	12628 (17%)	202	5256 (17%)	910
Any age	Sm.	16993	8038	5460	812	1766	2887	509	3899	-	1660	-
	Total	53036 (32%)	16272 (49%)	5802 (94%)	1147 (71%)	9323 (19%)	3565 (81%)	2565 (20%)	17618 (22%)	736	8073 (21%)	4207
2000												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	2024	158	8	6	144	5	25	90	11	497	1238
35-69	Sm.	6468	3592	2476	532	584	620	139	1516	-	601	-
	Total	16578 (39%)	6536 (55%)	2636 (94%)	770 (69%)	3130 (19%)	763 (81%)	433 (32%)	4620 (33%)	601	1791 (34%)	1834
70+	Sm.	9447	4170	2870	292	1008	2110	366	1963	-	838	-
	Total	33728 (28%)	9456 (44%)	3077 (93%)	435 (67%)	5944 (17%)	2669 (79%)	2418 (15%)	12533 (16%)	231	5430 (15%)	991
Any age	Sm.	15915	7762	5346	824	1592	2730	505	3479	-	1439	-
	Total	52330 (30%)	16150 (48%)	5721 (93%)	1211 (68%)	9218 (17%)	3437 (79%)	2876 (18%)	17243 (20%)	843	7718 (19%)	4063

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	4956.6	2385.6	2162.0	398.7	369.3	352.7	269.5	268.4	266.1	237.3	197.7	96.3	115.0
2000	5049.0	2294.0	2285.3	416.4	399.2	367.3	346.2	259.9	253.5	242.8	203.1	153.6	113.0
NUMBER OF DEATHS (Source: WHO)													
All causes													
1995	53036	2312	18038	723	968	1468	1764	2604	4243	6268	8536	6783	17367
2000	52330	2024	16578	653	931	1411	2087	2432	3445	5619	7802	9536	16390
Lung cancer													
1995	5802	4	2912	26	65	156	233	509	806	1117	1169	747	970
2000	5721	8	2636	16	47	146	319	434	638	1036	1205	1051	821
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	969.8*	94.0*	960.0*	181.3	262.1	416.2	654.5	970.2	1594.5	2641.4	4317.7	7043.6	15101.7
2000	886.4*	86.7*	855.1*	156.8	233.2	384.2	602.8	935.7	1359.0	2314.3	3841.5	6208.3	14504.4
All cancer													
1995	298.2*	5.1*	388.6*	29.6	59.6	133.5	253.8	431.1	700.5	1112.1	1498.7	2194.2	3403.5
2000	272.1*	6.7*	346.5*	22.1	48.8	124.4	236.0	402.8	596.1	995.5	1426.4	1957.7	3143.4
Lung cancer													
1995	106.4*	0.1*	159.7*	6.5	17.6	44.2	86.5	189.6	302.9	470.7	591.3	775.7	843.5
2000	96.2*	0.3*	141.8*	3.8	11.8	39.7	92.1	167.0	251.7	426.7	593.3	684.2	726.5
Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)													
1995	22.1*	-	40.8*	3.0	11.9	27.5	51.9	48.8	62.4	80.1	84.5	78.9	107.8
2000	21.7*	0.2*	38.3*	2.6	10.5	27.5	47.4	58.9	52.1	68.8	82.2	91.8	112.4
Other cancer													
1995	169.7*	4.9*	188.1*	20.1	30.1	61.8	115.4	192.6	335.2	561.3	823.0	1339.6	2452.2
2000	154.3*	6.1*	166.4*	15.6	26.6	57.2	96.5	177.0	292.3	500.0	750.9	1181.6	2304.4
Chronic obstructive pulmonary disease (COPD)													
1995	63.5*	0.5*	51.5*	1.3	3.0	8.2	17.4	38.0	98.1	194.7	367.2	612.7	1147.8
2000	55.9*	0.2*	42.5*	1.4	4.0	5.2	11.6	34.6	76.5	163.9	312.7	502.6	1116.8
Other respiratory disease													
1995	45.6*	0.8*	26.8*	1.5	3.0	6.2	7.4	19.7	51.5	98.2	199.3	367.6	1144.3
2000	47.6*	1.1*	23.3*	1.7	3.5	5.2	13.3	21.5	41.4	76.6	186.6	380.9	1286.7
Vascular disease													
1995	317.9*	3.9*	265.4*	22.8	49.3	96.1	165.5	266.0	457.7	800.3	1519.0	2686.4	6120.0
2000	287.1*	3.7*	243.7*	19.9	52.1	90.7	157.1	267.8	388.6	729.4	1261.4	2240.9	5777.9
Liver cirrhosis													
1995	14.1*	0.3*	26.4*	6.8	16.0	25.0	28.9	28.7	28.2	51.0	53.6	37.4	52.2
2000	15.3*	0.4*	28.3*	7.7	16.3	25.9	36.7	44.6	30.0	37.1	46.3	62.5	36.3
Other medical causes													
1995	149.6*	30.0*	111.0*	29.6	41.4	61.0	84.6	100.6	173.6	286.1	546.3	964.7	2823.5
2000	132.8*	22.8*	90.8*	22.3	29.6	47.4	71.1	85.8	146.0	233.5	489.9	878.3	2731.0
All non-medical causes													
1995	80.9*	53.4*	90.4*	89.8	89.9	86.2	96.8	86.1	84.9	99.0	133.5	180.7	410.4
2000	75.5*	51.8*	80.1*	81.7	78.9	85.5	77.1	78.5	80.5	78.3	118.2	185.5	412.4

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

1995, 2000[‡]: BELGIUM[‡]2000 mortality involves 1997 rates applied to 2000 population

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	1080	143	5	0	138	13	17	62	10	420	415
35-69	Sm.	984	419	317	44	58	168	19	231	-	147	-
	Total	9593 (10%)	4476 (9%)	502 (63%)	142 (31%)	3832 (2%)	341 (49%)	178 (11%)	2179 (11%)	266	1365 (11%)	788
70+	Sm.	1450	334	242	34	58	455	44	410	-	207	-
	Total	41188 (4%)	7297 (5%)	468 (52%)	171 (20%)	6658 (1%)	1272 (36%)	2200 (2%)	19216 (2%)	204	9915 (2%)	1084
Any age	Sm.	2434	753	559	78	116	623	63	641	-	354	-
	Total	51861 (5%)	11916 (6%)	975 (57%)	313 (25%)	10628 (1%)	1626 (38%)	2395 (3%)	21457 (3%)	480	11700 (3%)	2287
2000												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	955	138	4	0	134	7	13	44	3	368	382
35-69	Sm.	907	414	319	44	51	132	20	209	-	132	-
	Total	8783 (10%)	4041 (10%)	504 (63%)	143 (31%)	3394 (2%)	265 (50%)	189 (11%)	1971 (11%)	316	1210 (11%)	791
70+	Sm.	1825	435	319	42	74	547	68	501	-	274	-
	Total	42835 (4%)	7621 (6%)	572 (56%)	170 (25%)	6879 (1%)	1317 (42%)	2747 (2%)	19290 (3%)	191	10604 (3%)	1065
Any age	Sm.	2732	849	638	86	125	679	88	710	-	406	-
	Total	52573 (5%)	11800 (7%)	1080 (59%)	313 (27%)	10407 (1%)	1589 (43%)	2949 (3%)	21305 (3%)	510	12182 (3%)	2238

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		5180.1	2290.6	2204.4	387.5	358.6	343.4	268.4	278.1	288.7	279.7	262.2	151.7	271.2
2000		5254.8	2203.4	2297.1	401.9	387.6	357.1	339.6	263.4	270.7	276.8	260.8	231.2	262.3
NUMBER OF DEATHS (Source: WHO)														
All causes														
1995		51861	1080	9593	358	573	804	860	1363	2216	3419	5486	5716	29986
2000		52573	955	8783	341	534	796	1090	1255	1870	2897	4876	7782	30177
Lung cancer														
1995		975	5	502	14	23	45	46	88	125	161	176	100	192
2000		1080	4	504	10	19	46	65	86	123	155	173	178	221
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		556.4*	46.6*	469.5*	92.4	159.8	234.1	320.4	490.1	767.6	1222.4	2092.3	3768.0	11056.8
2000		534.6*	43.5*	425.8*	84.8	137.8	222.9	321.0	476.5	690.8	1046.6	1869.6	3365.9	11504.8
All cancer														
1995		154.1*	5.8*	219.8*	30.7	72.2	112.4	169.2	257.5	383.4	513.0	677.3	922.2	1519.9
2000		143.8*	5.9*	196.7*	30.1	55.0	106.7	159.0	254.7	342.1	429.6	648.4	857.3	1505.1
Lung cancer														
1995		14.0*	0.2*	24.7*	3.6	6.4	13.1	17.1	31.6	43.3	57.6	67.1	65.9	70.8
2000		14.5*	0.2*	24.8*	2.5	4.9	12.9	19.1	32.6	45.4	56.0	66.3	77.0	84.3
Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)														
1995		4.4*	-	7.0*	-	3.3	4.7	7.5	9.3	13.2	10.7	14.1	26.4	34.7
2000		4.2*	-	6.8*	0.7	3.4	4.5	8.5	9.9	9.6	10.8	13.0	19.9	34.3
Other cancer														
1995		135.7*	5.6*	188.1*	27.1	62.5	94.6	144.6	216.5	327.0	444.8	596.1	829.9	1414.5
2000		125.1*	5.8*	165.2*	26.9	46.7	89.3	131.3	212.2	287.0	362.7	569.0	760.4	1386.6
Chronic obstructive pulmonary disease (COPD)														
1995		17.7*	0.6*	17.0*	1.5	3.1	5.0	8.6	15.1	31.2	54.3	87.7	139.1	306.4
2000		15.9*	0.3*	13.3*	0.5	1.0	2.8	10.0	15.9	27.7	35.4	69.4	118.1	329.0
Other respiratory disease														
1995		21.7*	0.7*	8.9*	1.5	1.7	1.2	8.2	7.2	14.9	27.5	65.6	139.7	669.6
2000		25.6*	0.6*	9.3*	1.0	1.8	3.6	7.4	9.9	14.8	26.7	65.2	134.5	863.9
Vascular disease														
1995		203.3*	2.6*	108.2*	9.8	22.6	35.8	51.0	91.0	182.5	364.7	792.5	1623.6	5411.1
2000		192.2*	1.8*	97.5*	12.7	21.9	34.2	53.9	80.5	157.7	321.9	666.4	1407.0	5451.4
Liver cirrhosis														
1995		7.6*	0.4*	12.8*	3.1	7.3	11.9	15.6	16.5	19.1	15.7	30.5	40.2	23.2
2000		7.7*	0.1*	14.4*	6.2	8.3	16.0	15.3	14.8	17.7	22.8	23.4	24.7	27.8
Other medical causes														
1995		118.6*	19.2*	66.8*	15.2	21.2	31.5	36.1	63.6	105.0	194.9	369.6	800.3	2851.0
2000		117.3*	18.0*	59.0*	10.9	19.9	26.6	38.0	61.5	91.2	164.7	341.6	737.9	3052.6
All non-medical causes														
1995		33.4*	17.4*	36.2*	30.5	31.8	36.4	31.7	39.2	31.5	52.2	69.0	102.8	275.4
2000		32.0*	16.8*	35.4*	23.4	29.9	33.0	37.4	39.1	39.5	45.5	55.2	86.5	274.9

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

BELGIUM: 2000[†][†]2000 mortality involves 1997 rates applied to 2000 population**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	– / 2.0	– / 1.0	–
35–69	6.5 / 17	0.9 / 8.8	22 years
70+	9.4 / 34	1.8 / 43	8 years
All ages	16 / 52	2.7 / 53	14 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	2.5/2.6	2.9/3.1	5.3/5.7	–/0.0	0.3/0.5	0.3/0.6	0.6/1.1
All Cancer	–/0.2	3.6/6.5 (55%)	4.2/9.5 (44%)	7.8/16	–/0.1	0.4/4.0 (10%)	0.4/7.6 (6%)	0.8/12
Vascular	–/0.1	1.5/4.6	2.0/13	3.5/17	–/0.0	0.2/2.0	0.5/19	0.7/21
Respiratory	–/0.0	0.8/1.2	2.5/5.1	3.2/6.3	–/0.0	0.2/0.5	0.6/4.1	0.8/4.5
All Other	–/1.7	0.6/4.2	0.8/6.7	1.4/13	–/0.8	0.1/2.3	0.3/12	0.4/15
All Causes	–/2.0	6.5/17 (39%)	9.4/34 (28%)	16/52	–/1.0	0.9/8.8 (10%)	1.8/43 (4%)	2.7/53

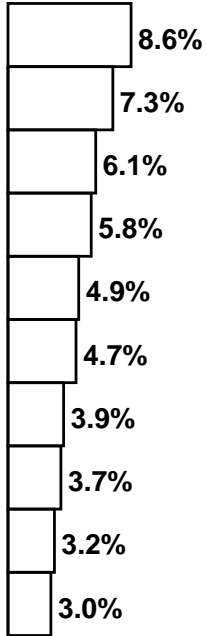
Cancer deaths, and all deaths, attributed to SMOKING / total deaths (thousands) in the year 2000

Cause	Male	Female	Male + Female
All Cancer	7.8 / 16 (48%)	0.8 / 12 (7%)	8.6 / 28 (31%)
All Causes	16 / 52 (30%)	2.7 / 53 (5%)	19 / 105 (18%)

1955-2000[‡]: BELGIUM

[‡]2000 mortality involves 1997 rates applied to 2000 population

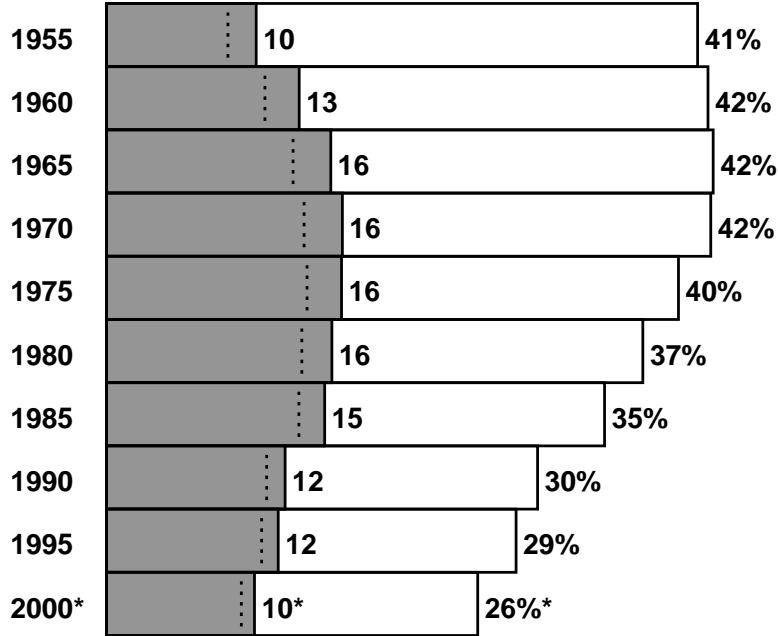
Population risk of dying at ages 0–34



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

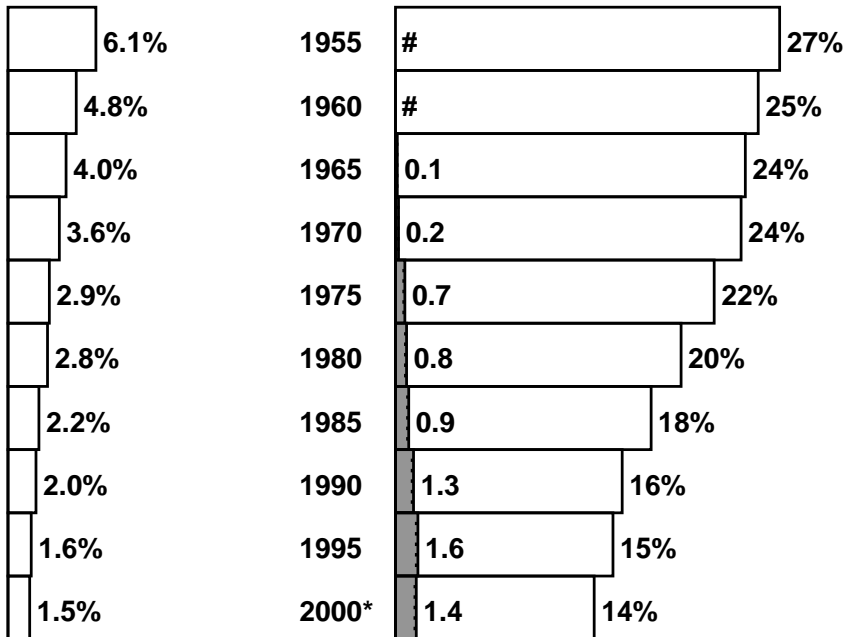
*eg, at year 2000 male death rates, out of 100 men aged 35, 26 would die before age 70 (with 10 of these deaths attributed to smoking)

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

BELGIUM: 1950-2000[†][†]2000 mortality involves 1997 rates applied to 2000 population**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	-/6.2	6.4/24 (27%)	1.5/28 (6%)	7.9/58	-/4.2	0.0/16	0.0/31	0.0/51
1960	-/5.3	8.5/26 (33%)	2.5/30 (8%)	11/61	-/3.4	0.0/16	0.0/34	0.0/53
1965	-/4.6	10/27 (37%)	4.3/30 (14%)	14/62	-/2.9	0.1/15 (0.5%)	0.1/35 (0.4%)	0.2/53
1970	-/4.2	10/26 (39%)	6.0/32 (19%)	16/63	-/2.5	0.1/15 (0.9%)	0.1/38 (0.1%)	0.2/56
1975	-/3.6	9.8/24 (41%)	8.4/35 (24%)	18/63	-/1.9	0.4/14 (3%)	0.6/41 (1%)	1.0/57
1980	-/3.5	9.2/22 (42%)	9.3/34 (27%)	18/60	-/1.9	0.5/12 (4%)	0.6/41 (1%)	1.1/54
1985	-/2.8	8.7/20 (44%)	10/35 (29%)	19/57	-/1.4	0.5/10 (5%)	0.8/43 (2%)	1.4/54
1990	-/2.7	7.8/19 (41%)	8.9/31 (28%)	17/53	-/1.3	0.8/10 (8%)	0.8/40 (2%)	1.6/51
1995	-/2.3	7.4/18 (41%)	9.6/33 (29%)	17/53	-/1.1	1.0/9.6 (10%)	1.5/41 (4%)	2.4/52
2000	-/2.0	6.5/17 (39%)	9.4/34 (28%)	16/52	-/1.0	0.9/8.8 (10%)	1.8/43 (4%)	2.7/53

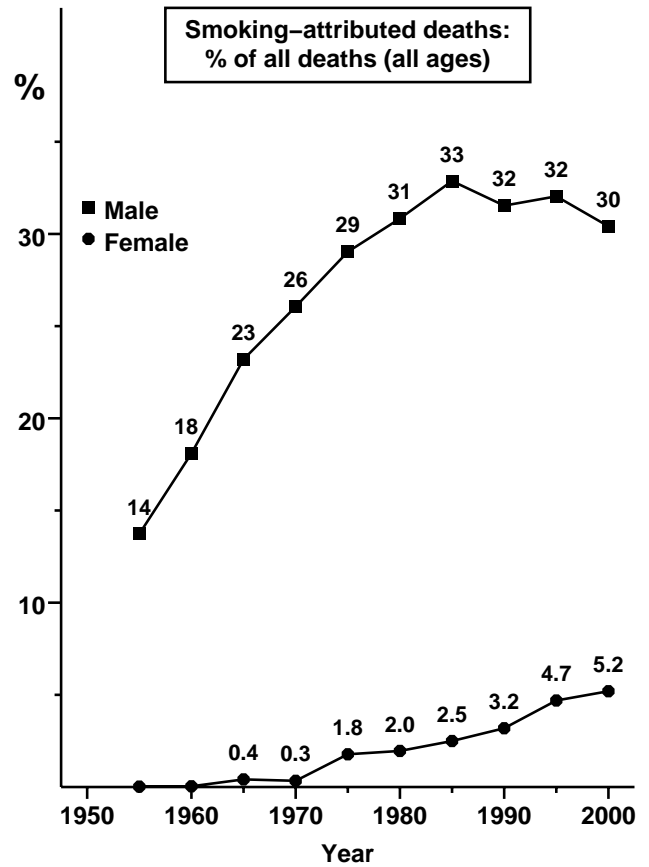
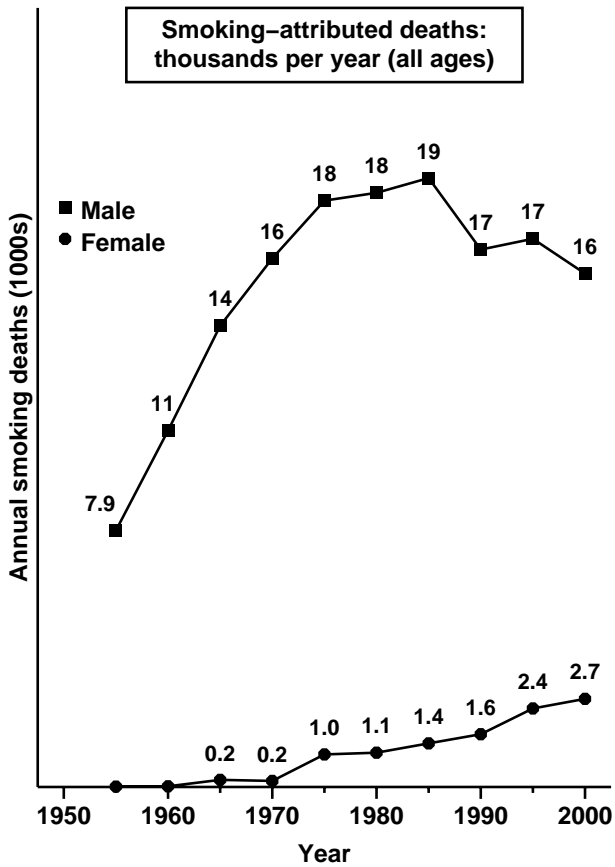
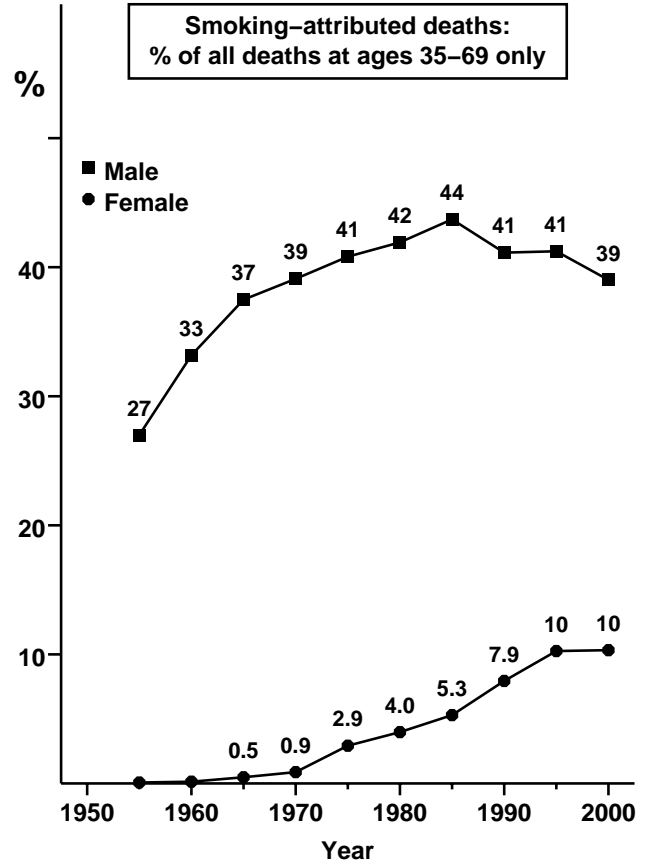
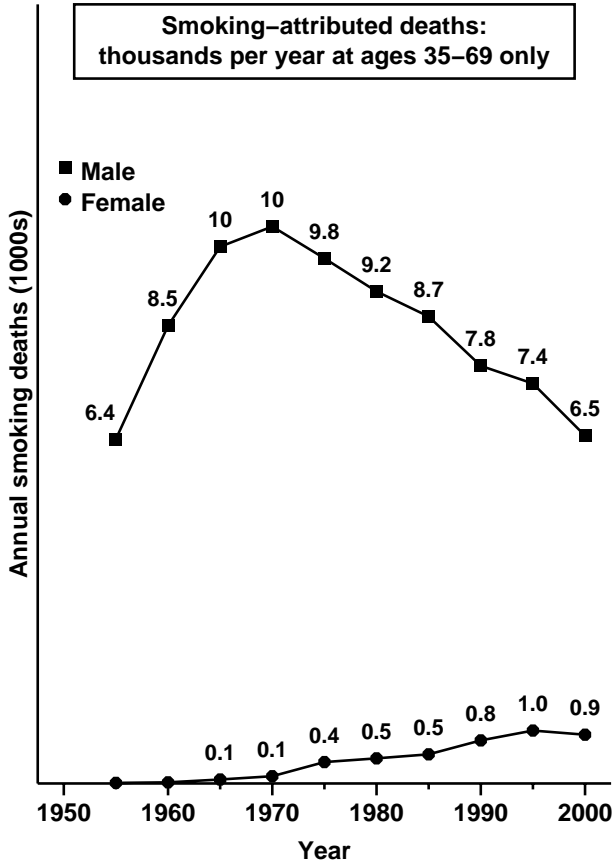
50-year total* (thousands), mid-1950 to mid-2000: 813 / 5597**1950-2000 by age & sex:**

-/194	423/1122 (38%)	340/1610 (21%)	763/2926	-/116	20/646 (3%)	30/1909 (2%)	50/2671
-------	--------------------------	--------------------------	----------	-------	-----------------------	------------------------	---------

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

1955-2000[‡]: BELGIUM

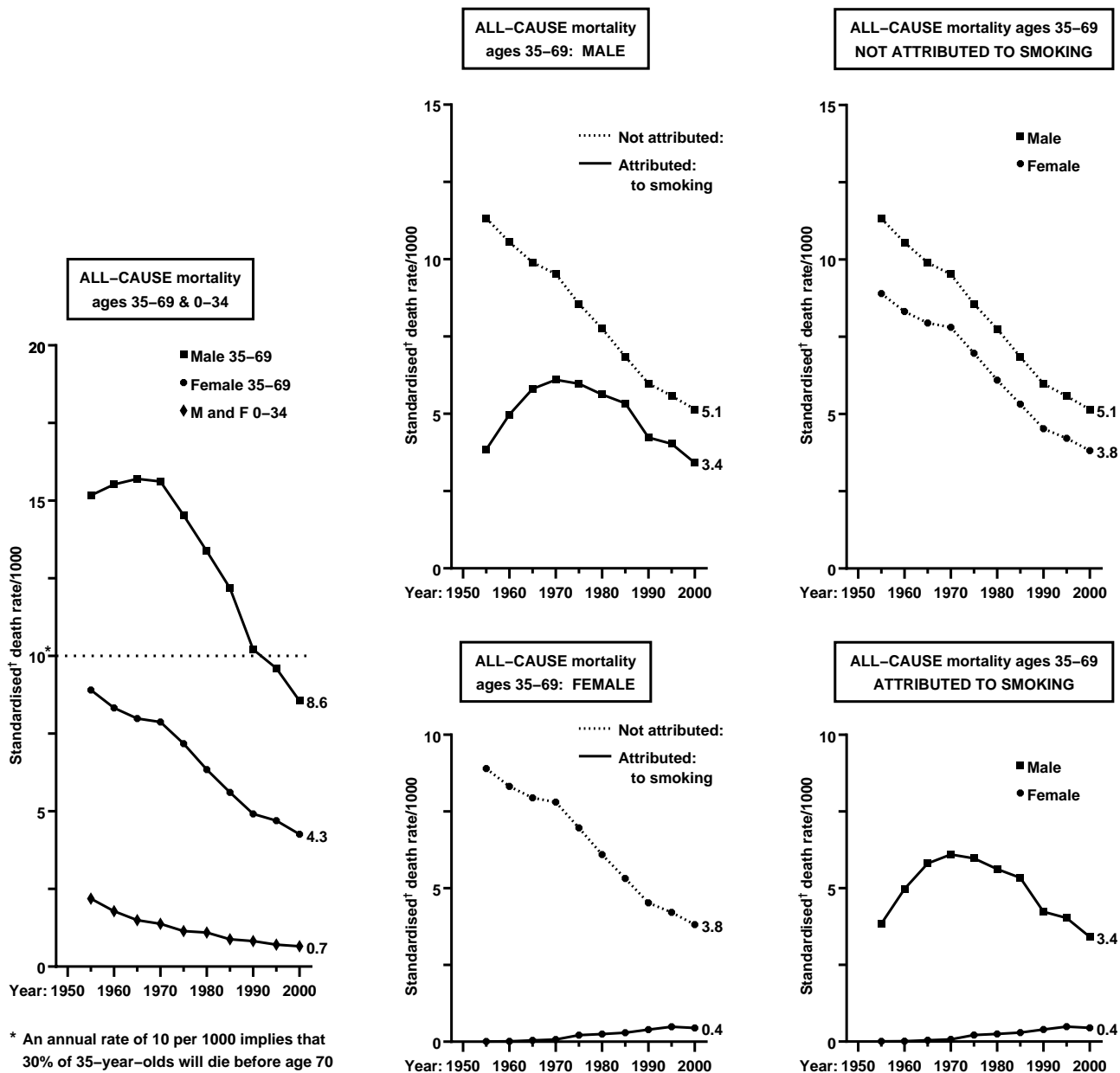
[‡]2000 mortality involves 1997 rates applied to 2000 population



BELGIUM: 1955-2000[†]

[‡]2000 mortality involves 1997 rates applied to 2000 population

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)

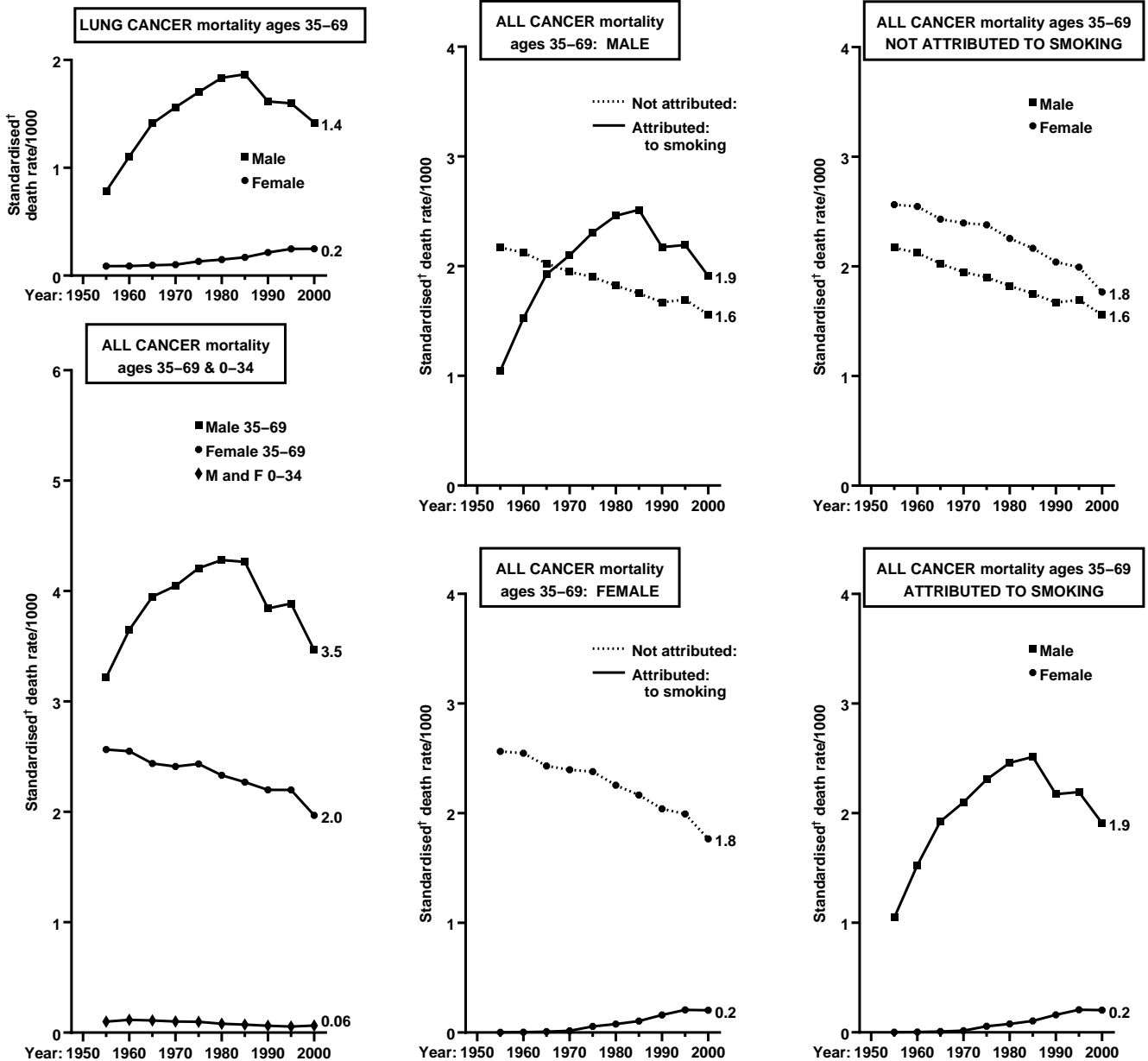
Year	MALE all-cause mortality (annual rate/1000, by age)								FEMALE all-cause mortality (annual rate/1000, by age)									
	Attributed to smoking?		0-34		35-69		70-79		Attributed to smoking?		0-34		35-69		70-79			
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No		
1950		
1955	-	2.56	3.84	11.3	5.11	74.7	-	1.81	0.01	8.90	0.00	61.7	-	1.39	0.01	8.31	0.00	59.9
1960	-	2.17	4.97	10.5	8.17	73.6	-	1.18	0.04	7.94	0.22	54.6	-	1.04	0.07	7.80	0.12	53.3
1965	-	1.80	5.80	9.89	13.3	67.1	-	0.84	0.21	6.96	0.82	49.5	-	0.80	0.25	6.09	0.73	41.5
1970	-	1.71	6.10	9.52	17.6	64.3	-	0.62	0.29	5.31	1.02	37.4	-	0.56	0.39	4.52	0.93	31.3
1975	-	1.44	5.97	8.56	22.3	60.6	-	0.47	0.48	4.21	1.48	27.8	-	0.44	0.45	3.81	1.50	24.7
1980	-	1.39	5.62	7.75	22.9	53.3	-	0.44	0.45	3.81	1.50	24.7	-	0.44	0.45	3.81	1.50	24.7
1985	-	1.13	5.34	6.84	23.4	48.8	-	0.44	0.45	3.81	1.50	24.7	-	0.44	0.45	3.81	1.50	24.7
1990	-	1.07	4.23	5.98	20.0	41.2	-	0.44	0.45	3.81	1.50	24.7	-	0.44	0.45	3.81	1.50	24.7
1995	-	0.94	4.03	5.58	18.7	38.1	-	0.44	0.45	3.81	1.50	24.7	-	0.44	0.45	3.81	1.50	24.7
2000	-	0.87	3.41	5.14	16.2	34.1	-	0.44	0.45	3.81	1.50	24.7	-	0.44	0.45	3.81	1.50	24.7

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

1955-2000[†]: BELGIUM

[‡]2000 mortality involves 1997 rates applied to 2000 population

ALL CANCER mortality rates attributed and not attributed to smoking



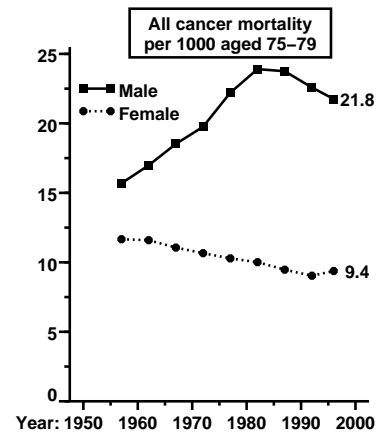
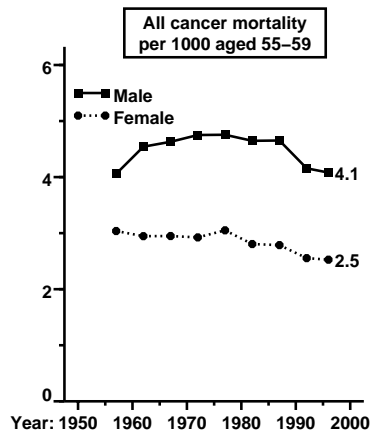
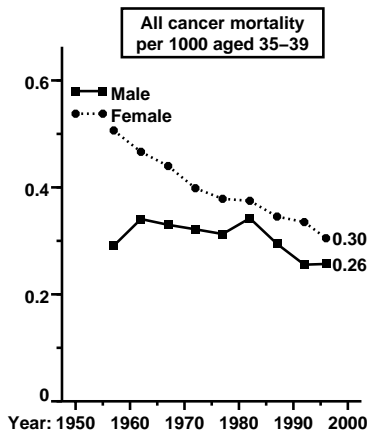
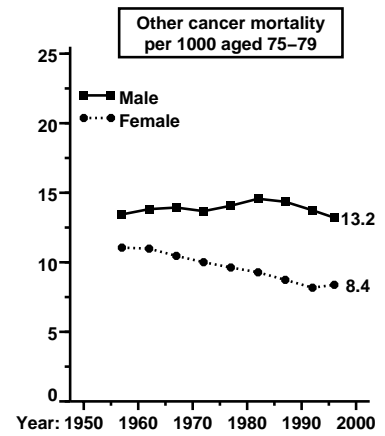
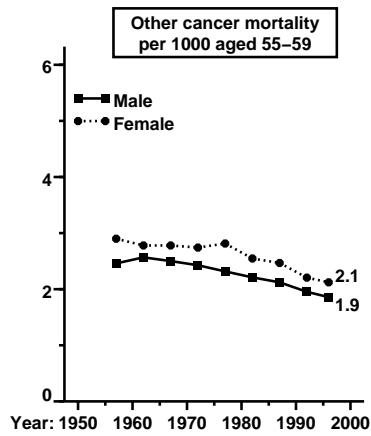
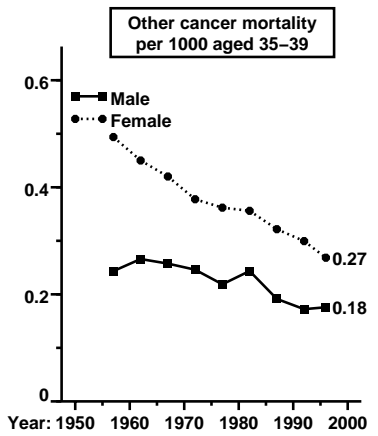
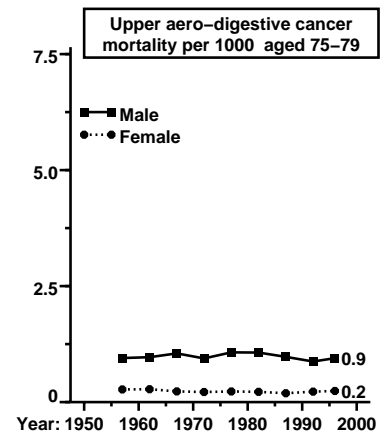
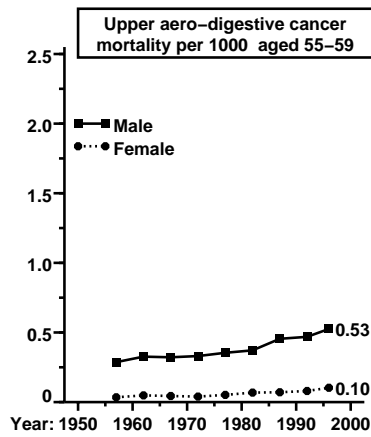
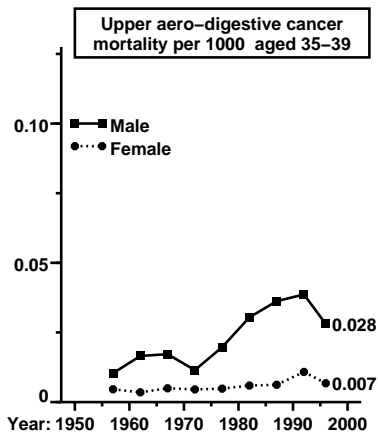
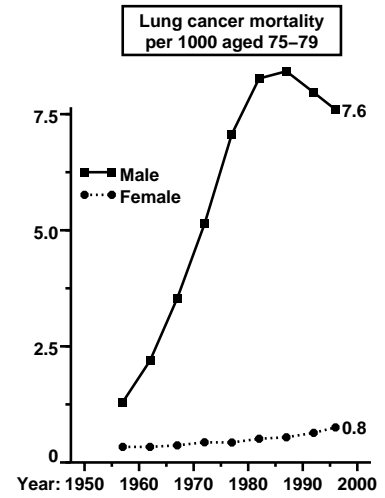
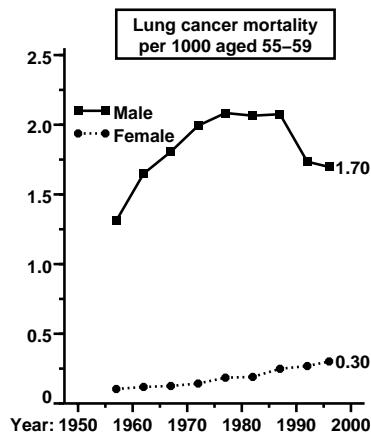
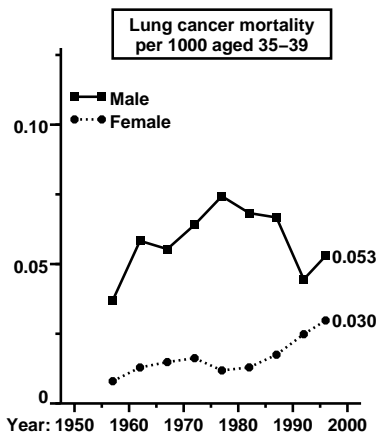
[†] Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

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	-	0.10	1.05	2.17	1.57	11.9	-	0.10	0.00	2.56	0.00	10.2				
1960	-	0.13	1.52	2.12	2.59	12.2	-	0.10	0.00	2.55	0.00	10.1				
1965	-	0.11	1.92	2.02	4.54	11.5	-	0.11	0.01	2.43	0.05	9.72				
1970	-	0.11	2.10	1.95	6.10	11.0	-	0.09	0.01	2.40	0.02	9.28				
1975	-	0.11	2.31	1.90	8.50	10.5	-	0.08	0.05	2.38	0.18	8.67				
1980	-	0.08	2.46	1.82	10.1	10.7	-	0.08	0.08	2.25	0.20	8.49				
1985	-	0.08	2.51	1.75	10.7	10.2	-	0.06	0.10	2.16	0.28	8.37				
1990	-	0.07	2.17	1.67	9.69	10.1	-	0.05	0.16	2.04	0.29	7.58				
1995	-	0.05	2.19	1.69	8.96	9.51	-	0.06	0.21	1.99	0.47	7.53				
2000	-	0.07	1.91	1.56	8.21	8.71	-	0.06	0.20	1.77	0.52	7.01				

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

BELGIUM: 1955-1997

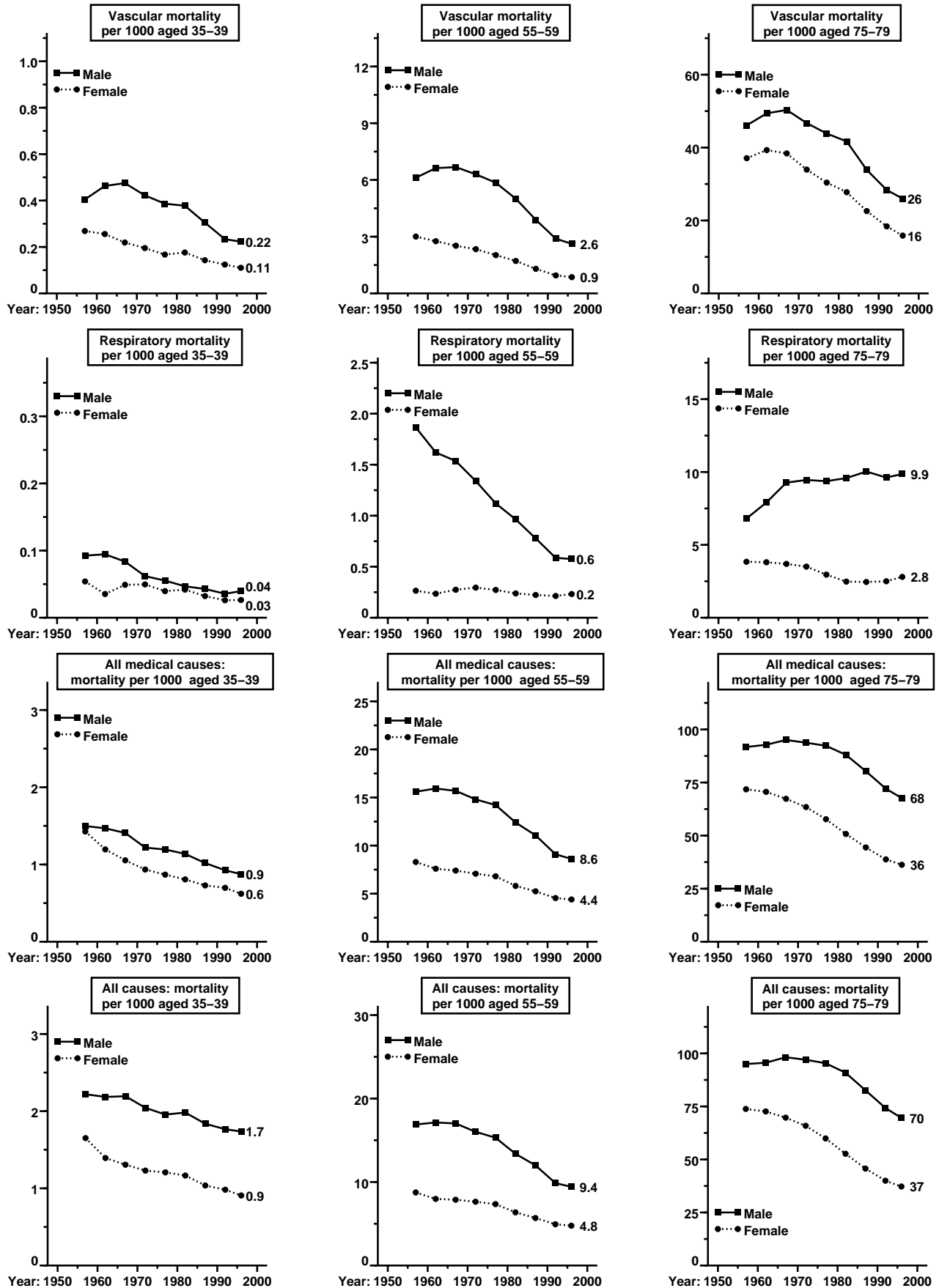
Mortality* trends at selected ages: 35-39, 55-59 & 75-79



* Annual mortality per 1000: averages of years available in 1955-59,.....,1990-94; then 3-year average 1995-97

1955-1997: BELGIUM

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



* Annual mortality per 1000: averages of years available in 1955-59,.....,1990-94; then 3-year average 1995-97