

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

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BULGARIA

Raw data (pages 98–99, 100–101)

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BULGARIA: 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	61520	2263	25482	1432.2	138.3	1589.2	387.1	41.0	32.6	80.3	112.2	123.9	191.4
	F	53567	1266	13176	918.8	86.7	727.4	323.7	26.1	18.4	43.9	52.0	52.0	91.1
Tuberculosis	M	255	15	162	5.8	0.8	9.7	-	-	-	-	1.0	2.1	2.2
	F	78	11	42	1.5	0.7	2.3	1.3	-	-	-	1.0	0.4	1.9
HIV	M	-	-	-	-	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	-	-	-	-	-	-	-
Other infective and parasitic	M	226	68	101	6.5	5.2	6.0	29.3	2.4	0.4	1.1	1.0	1.7	0.7
	F	165	52	55	4.4	4.2	3.0	24.6	-	0.4	0.4	1.0	0.7	2.3
ALL CANCER	M	8764	144	5166	195.0	7.8	321.9	4.2	4.8	3.7	5.7	6.5	9.9	19.5
	F	6521	145	3421	118.2	8.0	185.9	3.2	3.0	3.1	6.4	4.8	13.1	22.2
Mouth and pharynx cancer	M	230	2	185	5.4	0.1	11.1	-	-	-	-	-	0.3	0.4
	F	59	5	25	1.1	0.3	1.3	-	-	0.4	0.4	-	0.4	0.8
Oesophagus cancer	M	136	-	91	3.1	-	5.6	-	-	-	-	-	-	-
	F	38	-	19	0.7	-	1.0	-	-	-	-	-	-	-
Stomach cancer	M	993	9	544	21.7	0.5	34.4	-	0.5	-	0.4	0.3	0.3	1.9
	F	650	8	258	11.0	0.4	14.2	-	-	-	0.4	-	0.7	1.9
Colorectal cancer	M	1169	5	579	25.6	0.3	36.7	-	-	-	-	-	0.3	1.5
	F	1010	10	409	17.0	0.5	22.6	-	-	-	-	0.3	0.7	2.7
Liver cancer	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Pancreas cancer	M	446	4	255	9.9	0.2	15.6	-	-	-	-	-	0.3	1.1
	F	331	2	164	5.8	0.1	9.0	-	-	0.4	-	0.3	-	-
Larynx cancer	M	352	2	261	8.0	0.1	16.0	-	-	0.4	-	-	0.3	-
	F	23	1	11	0.4	0.1	0.6	-	-	-	-	-	0.4	-
Lung cancer	M	2383	10	1678	53.2	0.6	104.3	0.6	-	0.7	0.4	0.7	-	1.5
	F	526	3	299	9.4	0.2	16.4	-	-	-	-	-	1.1	-
Malignant melanoma	M	65	3	30	1.5	0.2	1.7	-	-	-	-	-	-	1.1
	F	51	3	26	1.0	0.2	1.4	-	-	-	-	-	0.4	0.8
Female breast cancer	F	1155	12	728	22.1	0.7	39.1	-	-	-	-	-	0.4	4.2
Cervix cancer	F	340	10	239	7.0	0.5	12.5	-	-	-	-	0.7	0.7	2.3
Other uterine cancer	F	362	8	218	6.9	0.4	11.8	-	-	-	-	-	1.4	1.5
Ovarian cancer	F	311	6	207	6.0	0.3	11.1	-	-	-	0.4	-	0.7	1.1
Prostate cancer	M	664	2	193	14.5	0.1	12.8	-	-	-	-	0.3	0.3	-
Bladder cancer	M	313	1	141	6.8	0.0	9.1	-	-	-	-	-	0.3	-
	F	95	1	37	1.6	0.1	2.0	-	-	-	-	-	-	0.4
Other and ill-defined cancer sites	M	1625	61	995	36.5	3.4	61.4	3.6	1.9	1.5	3.6	1.6	4.1	7.5
	F	1251	44	612	22.3	2.5	33.7	2.5	1.5	1.2	3.4	1.7	3.5	3.8
Hodgkin's disease	M	51	10	32	1.2	0.5	1.9	-	0.5	-	-	0.3	2.1	0.7
	F	34	12	15	0.7	0.6	0.8	-	-	-	1.1	1.0	1.1	1.1
Myeloma and non- Hodgkin lymphomas	M	139	13	71	3.2	0.7	4.4	-	0.5	-	0.7	1.0	1.0	1.5
	F	111	5	53	2.0	0.3	2.9	0.6	0.5	-	-	0.3	0.4	0.4
Leukaemia	M	198	22	111	4.4	1.2	6.8	-	1.4	1.1	0.7	2.3	0.3	2.2
	F	174	15	101	3.4	0.8	5.4	-	1.0	1.2	0.8	0.3	1.4	1.1
Diabetes	M	903	12	398	19.6	0.6	25.5	-	-	0.4	-	-	1.4	2.6
	F	1181	23	393	19.1	1.2	22.0	0.6	-	-	0.8	2.1	2.8	2.3
ALL VASCULAR DISEASE	M	38692	315	13967	889.2	17.6	885.3	23.9	5.7	3.0	8.5	14.1	22.2	46.1
	F	37449	185	7260	614.4	11.2	405.1	22.1	4.0	1.2	7.5	9.9	11.0	22.6
Rheumatic heart disease and fever	M	112	3	86	2.5	0.2	5.2	-	0.5	-	-	0.3	-	0.4
	F	148	-	90	2.6	-	5.0	-	-	-	-	-	-	-
Hypertensive disease	M	2041	11	909	46.4	0.6	57.3	-	-	-	0.7	-	0.7	2.6
	F	2207	2	567	36.1	0.1	31.6	-	-	-	-	-	-	0.8
Ischaemic heart disease	M	10893	60	4452	250.3	3.1	280.5	-	-	-	0.7	1.6	5.8	13.5
	F	8984	15	1732	147.0	0.8	96.8	-	-	-	0.4	1.4	1.4	2.3
Pulmonary embolism and other venous	M	...	...	...	...	...	...	...	...	...	...	...	...	...
	F	...	...	...	...	...	...	...	...	...	...	...	...	...
Cerebrovascular disease	M	10501	69	3671	235.9	3.8	235.4	3.6	1.0	1.1	1.8	4.3	4.4	10.1
	F	11210	40	2300	180.4	2.3	128.5	3.2	1.0	0.4	1.5	2.1	2.1	6.1
Other vascular disease, incl. venous	M	15145	172	4849	354.1	10.1	306.8	20.3	4.3	1.9	5.3	7.8	11.3	19.5
	F	14900	128	2571	248.4	8.0	143.1	18.9	3.0	0.8	5.6	6.5	7.4	13.4
Chronic obstructive pulmonary disease	M	1031	4	424	23.3	0.2	27.6	0.6	-	-	-	0.3	-	0.7
	F	572	3	128	9.6	0.3	7.1	1.9	-	-	-	-	-	-
Other respiratory disease	M	1709	204	589	42.7	15.0	36.4	78.3	3.8	2.2	4.6	4.6	3.8	7.9
	F	1188	137	239	23.5	10.9	13.1	59.9	2.5	2.0	3.0	2.4	2.1	4.2
Peptic ulcer	M	157	1	86	3.4	0.1	5.3	-	-	-	-	-	-	0.4
	F	65	-	14	1.1	-	0.8	-	-	-	-	-	-	-
Liver cirrhosis	M	1199	33	895	27.6	1.7	53.7	-	0.5	1.1	0.7	0.7	1.4	7.9
	F	358	6	200	6.6	0.4	11.0	1.3	-	-	-	0.7	0.4	0.4
Renal disease	M	521	21	233	11.9	1.3	14.4	4.2	-	-	0.7	-	3.1	1.1
	F	421	7	175	7.2	0.4	9.7	0.6	-	0.4	-	0.7	-	1.1
Pregnancy, birth Congenital and perinatal causes	F	13	7	6	0.3	0.4	0.3	-	-	-	0.4	1.4	0.4	0.4
	M	334	331	3	15.8	28.1	0.2	194.1	1.4	-	-	0.3	0.7	-
	F	263	261	2	13.0	23.2	0.1	158.4	1.0	0.4	1.5	0.7	-	0.4
Ill-defined causes	M	2666	107	755	69.5	6.0	46.4	11.4	0.5	1.5	5.3	8.5	5.8	9.4
	F	3012	53	377	54.5	3.5	20.7	12.0	1.0	0.8	1.9	1.7	3.2	4.2
Other medical causes	M	1594	137	737	37.6	8.6	44.9	23.3	7.6	3.4	5.7	6.5	5.1	8.2
	F	1097	97	363	20.3	6.3	19.7	16.4	5.5	2.0	4.1	5.5	2.8	7.7
ALL NON- MEDICAL CAUSES	M	3469	871	1966	84.4	45.3	112.1	17.9	14.3	16.9	48.0	68.7	66.7	84.6
	F	1184	279	501	25.1	16.2	26.7	21.5	9.0	8.2	18.0	20.2	15.2	21.4
Road traffic accidents	M	694	242	364	16.8	12.5	20.6	4.2	3.3	3.0	14.6	19.9	21.2	21.0
	F	246	80	106	5.3	4.4	5.7	2.5	2.0	2.7	6.0	7.9	3.2	6.5
Fire	M	67	8	41	1.5	0.4	2.4	-	-	1.1	0.4	0.7	0.3	0.4
	F	27	2	7	0.5	0.1	0.4	-	0.5	-	-	-	0.4	-
Suicide	M	1001	161	574	24.2	8.1	32.6	-	-	1.9	5.0	13.1	13.3	23.6
	F	382	57	177	7.5	3.0	9.4	-	-	-	3.0	4.1	5.7	8.0
Homicide	M	205	74	113	5.0	3.7	6.3	-	0.5	1.1	3.2	8.2	5.5	7.5
	F	85	23	43	1.9	1.3	2.3	1.3	-	1.2	1.5	2.1	1.1	1.9
POPULATION: (1000s; UN, 2004 revision)			M=male		3890.1	1790.4	1752.7	167.4	209.6	266.9	281.5	305.8	292.2	267.0
			F=female		4106.6	1715.5	1895.1	158.5	199.2	255.1	266.4	292.2	282.8	261.3

2000: BULGARIA

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			
277.7	464.4	781.0	1244.3	1840.9	2621.1	3895.2	5953.8	9491.6	20051.2	M	ALL CAUSES	001-999/A00-Y89
129.2	198.6	290.1	466.4	754.3	1218.9	2034.5	3789.1	6863.9	17933.6	F		
3.0	6.8	5.6	11.5	10.8	13.0	17.1	20.1	23.7	26.4	M	Tuberculosis	010-018, 137/ A15-A19, B90
0.8	1.7	2.3	0.7	0.8	3.3	6.3	5.0	5.9	3.7	F		
-	-	-	-	-	-	-	-	-	-	M	HIV	279.5, 279.6/B20-B24
-	-	-	-	-	-	-	-	-	-	F		
3.4	2.9	4.2	6.4	7.6	6.7	11.0	10.7	21.1	23.3	M	Other infective and parasitic	Rest of 001-139/rest of A00-B99 excl A33,A34
1.5	1.7	2.7	2.7	3.2	4.6	4.3	7.7	10.1	22.4	F		
42.8	76.2	160.8	279.4	405.6	531.5	756.7	899.9	1061.6	1128.7	M	ALL CANCER	140-208/C00-C97
50.1	74.7	117.7	172.6	219.0	290.4	376.9	497.3	626.0	750.5	F		
0.8	2.5	9.4	14.3	17.9	15.9	17.1	13.6	8.8	15.5	M	Mouth and pharynx cancer	140-149/C00-C14
1.1	0.7	0.3	1.7	0.8	1.7	3.1	4.1	5.9	9.3	F		
0.4	1.1	4.5	5.4	4.9	13.0	10.0	10.1	14.1	18.6	M	Oesophagus cancer	150/C15
0.4	0.3	-	1.3	0.8	1.7	2.7	2.3	5.3	4.7	F		
3.8	5.7	12.9	25.4	40.8	57.8	94.8	111.4	141.6	141.1	M	Stomach cancer	151/C16
1.1	3.1	6.3	11.4	15.4	22.8	39.2	57.7	81.7	111.2	F		
3.0	9.7	14.0	23.3	42.1	63.1	101.9	142.2	179.4	218.6	M	Colorectal cancer	153, 154/C18-C21
2.6	5.6	7.7	17.0	27.9	37.6	59.6	95.0	127.8	155.1	F		
...	...	...	...	...	...	...	...	...	...	M	Liver cancer	Not given separately
...	...	...	...	...	...	...	...	...	...	F		
3.0	4.3	10.5	14.0	24.7	20.7	32.4	49.8	58.9	55.8	M	Pancreas cancer	157/C25
0.8	2.1	5.0	9.0	9.3	15.3	21.2	29.5	34.3	39.3	F		
1.1	3.9	10.8	16.8	23.3	22.6	33.3	20.7	32.5	26.4	M	Larynx cancer	161/C32
-	0.7	0.7	0.3	0.8	0.8	0.8	0.9	3.0	3.7	F		
8.6	21.1	54.8	100.3	134.9	179.6	231.0	220.4	195.3	156.6	M	Lung cancer	162/C33, C34
2.6	4.9	10.0	13.0	20.2	26.9	36.9	47.3	43.8	43.0	F		
1.1	1.4	3.1	1.4	0.9	1.0	2.9	8.3	7.9	14.0	M	Malignant melanoma	172/C43
1.1	1.0	1.3	1.3	0.8	2.5	1.6	2.7	2.4	11.2	F		
14.3	19.9	29.7	44.7	47.4	59.2	58.8	65.9	87.0	115.0	F	Female breast cancer	174/C50
7.5	11.5	16.7	16.0	11.7	13.7	10.2	15.0	20.1	22.4	F	Cervix cancer	180/C53
6.4	5.9	7.7	10.0	12.6	19.9	20.4	21.4	27.8	39.3	F	Other uterine cancer	179, 182/C54, C55
3.0	3.5	8.3	13.7	15.4	14.9	19.2	23.6	17.2	15.9	F	Ovarian cancer	183/C56, C570-C574
-	1.1	1.0	4.7	9.0	24.6	49.0	80.6	162.7	229.5	M	Prostate cancer	185/C61
0.8	2.1	2.4	4.3	9.0	17.8	27.1	41.5	52.8	63.6	M	Bladder cancer	188/C67
-	0.3	1.0	3.0	2.4	2.5	4.7	6.4	13.6	18.7	F		
12.8	17.9	31.7	57.7	81.6	97.3	131.0	164.1	166.2	159.7	M	Other and ill-defined cancer sites	Rest of 140-199/ rest of C00-C80, C97
5.6	10.1	16.7	22.7	44.5	55.0	81.2	104.1	129.6	137.4	F		
3.4	1.4	1.0	1.1	2.2	1.0	2.9	4.7	0.9	-	M	Hodgkin's disease	201/C81
0.4	0.3	1.0	0.7	0.8	0.4	2.0	1.8	1.8	-	F		
1.1	2.5	1.7	3.6	6.7	8.2	6.7	15.4	15.8	17.1	M	Myeloma and non- Hodgkin lymphomas	200, 202-203/ C82-C90, C96
1.1	1.0	1.0	2.0	3.2	6.6	5.5	10.5	11.8	9.3	F		
3.0	1.4	2.8	7.2	7.6	9.1	16.7	17.2	24.6	12.4	M	Leukaemia	204-208/C91-C95
1.9	3.5	4.3	4.7	4.9	9.1	9.8	9.1	13.0	15.0	F		
2.3	3.9	8.7	15.4	24.7	43.3	80.0	106.0	169.7	187.6	M	Diabetes	250/E10-E14
1.1	3.5	4.7	9.3	17.8	43.9	73.7	113.6	174.6	205.6	F		
80.3	179.2	342.5	617.1	990.6	1561.4	2425.7	4064.6	6925.2	15000.0	M	ALL VASCULAR DISEASE	390-459/I00-I99
34.3	64.2	99.0	195.0	394.3	706.2	1342.4	2739.1	5329.0	13992.5	F		
0.8	2.5	2.4	6.1	5.8	8.2	11.0	6.5	8.8	3.1	M	Rheumatic heart disease and fever	390-398/I00-I09
-	1.4	0.7	2.3	9.7	7.9	13.3	15.9	13.0	0.9	F		
4.9	8.6	27.9	41.9	69.0	95.8	153.3	219.2	303.4	629.5	M	Hypertensive disease	401-405/I10-I15
1.5	5.6	7.7	18.4	33.2	60.0	94.9	173.6	326.6	657.9	F		
31.1	56.5	121.0	211.7	333.5	495.9	713.8	1115.5	1763.4	3865.1	M	Ischaemic heart disease	410-414/I20-I25
9.8	15.7	20.7	41.1	91.9	170.9	327.8	645.0	1277.5	3419.6	F		
...	...	...	...	...	...	...	...	...	...	M	Pulmonary embolism and other venous	Not given separately
...	...	...	...	...	...	...	...	...	...	F		
12.0	39.7	75.0	139.0	249.2	430.9	701.9	1226.9	2058.9	3641.9	M	Cerebrovascular disease	430-438/I60-I69
6.0	17.1	32.3	56.8	111.3	225.9	449.8	958.6	1700.0	3633.6	F		
31.5	71.9	116.1	218.5	333.0	530.6	845.7	1496.4	2790.7	6860.5	M	Other vascular disease, incl. venous	Rest of 390-459/ rest of I00-I99
16.9	24.4	37.7	76.5	148.2	241.6	456.5	945.9	2011.8	6280.4	F		
1.9	1.8	5.9	13.6	26.9	59.7	83.3	114.9	165.3	342.6	M	Chronic obstructive pulmonary disease	490-496/ J40-J47, J67
0.4	1.7	2.0	4.3	10.5	9.1	21.6	46.4	72.8	201.9	F		
10.1	16.8	19.9	23.6	44.4	46.2	93.8	148.1	277.0	544.2	M	Other respiratory disease	Rest of 460-519/ rest of J00-J98
2.6	5.6	6.3	8.7	10.5	24.8	33.3	66.4	145.6	392.5	F		
0.4	1.1	2.8	6.4	6.3	7.2	12.9	21.9	21.1	14.0	M	Peptic ulcer	531-533/K25-K27
-	0.7	-	-	0.4	1.7	2.7	4.1	8.9	25.2	F		
11.6	18.2	47.1	62.0	74.4	73.7	88.6	77.6	88.0	62.0	M	Liver cirrhosis	571/K70, K74
3.8	2.8	4.0	10.0	15.8	21.1	19.6	35.0	22.5	34.6	F		
3.4	5.0	8.0	11.8	17.9	25.5	29.0	55.7	86.2	116.3	M	Renal disease	580-590/N00-N19
2.3	2.8	3.3	6.3	14.2	15.3	23.5	36.4	58.0	57.0	F		
1.5	0.3	0.3	-	-	-	-	-	-	-	F	Pregnancy, birth	630-676/A34,000-O99
0.4	-	0.7	-	-	-	-	-	-	-	M	Congenital and perinatal causes	740-779/A33, P00-P96, Q00-Q99
-	-	0.7	-	-	-	-	-	-	-	F	III-defined causes	780-799/R00-R99
9.8	17.9	27.6	40.5	58.3	77.0	93.8	154.6	253.3	1945.7	M		
3.4	8.0	9.0	14.7	21.9	37.2	51.0	100.5	189.9	1906.5	F		
14.3	19.3	29.6	38.0	56.5	65.0	91.9	140.4	222.5	356.6	M	Other medical causes	Rest of 001-799/ rest of A00-R99
9.0	10.5	12.7	16.0	20.6	29.0	40.0	78.6	141.4	210.3	F		
94.2	115.2	117.5	118.6	117.0	110.7	111.4	139.2	176.8	303.9	M	ALL NON- MEDICAL CAUSES	E800-E999/V01-Y89
18.5	20.2	25.3	26.0	25.1	32.3	39.2	59.1	79.3	130.8	F		
20.3	22.2	25.8	18.6	16.6	18.8	21.9	19.0	33.4	27.9	M	Road traffic accidents	E810-E819, E826-E829/ part of V01-V99, Y850
3.4	3.8	5.0	6.3	4.0	9.1	7.8	13.2	11.8	10.3	F		
1.9	2.1	1.7	2.1	1.8	2.9	4.3	4.7	5.3	6.2	M	Fire	E890-E899/X00-X09
-	-	0.3	-	0.4	0.8	1.2	0.9	4.1	8.4	F		
30.0	31.5	33.8	38.0	34.5	33.7	26.7	50.9	70.4	155.0	M	Suicide	E950-E959/X60-X84
6.4	5.9	10.3	10.7	6.5	12.0	13.7	21.8	27.2	50.5	F		
4.5	9.7	7.3	7.9	5.8	4.8	3.8	3.0	7.9	6.2	M	Homicide	E960-E969/ X85-X99, Y00-Y09
3.0	1.7	1.7	1.3	3.6	1.7	3.1	2.7	5.3	3.7	F		
266.5	279.5	286.7	279.2	223.1	207.7	210.0	168.8	113.7	64.5	M	POPULATION	
265.5	286.5	299.9	299.5	247.0	241.7	255.0	220.0	169.0	107.0	F	(1000s; UN, 2004 revision)	

BULGARIA: 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.	-	-	-	-	-	-	-	-	-	-	-
0-34 Total	2787	236	18	8	210	7	257	281	36	784	1186
35-69 Sm.	8801	2848	1870	427	551	365	295	4433	-	860	-
35-69 Total	28307 (31%)	5926 (48%)	2012 (93%)	627 (68%)	3287 (17%)	478 (76%)	891 (33%)	14791 (30%)	1195	2600 (33%)	2426
70+ Sm.	2731	769	547	74	148	357	60	1355	-	190	-
70+ Total	32306 (8%)	3287 (23%)	669 (82%)	185 (40%)	2433 (6%)	670 (53%)	1017 (6%)	22967 (6%)	292	3426 (6%)	647
Any age Sm.	11532	3617	2417	501	699	722	355	5788	-	1050	-
Any age Total	63400 (18%)	9449 (38%)	2699 (90%)	820 (61%)	5930 (12%)	1155 (63%)	2165 (16%)	38039 (15%)	1523	6810 (15%)	4259
2000											
0-34 Sm.	-	-	-	-	-	-	-	-	-	-	-
0-34 Total	2263	144	10	4	130	4	204	315	33	692	871
35-69 Sm.	7361	2323	1542	343	438	315	173	3815	-	735	-
35-69 Total	25482 (29%)	5166 (45%)	1678 (92%)	537 (64%)	2951 (15%)	424 (74%)	589 (29%)	13967 (27%)	895	2475 (30%)	1966
70+ Sm.	2616	767	557	65	145	305	49	1315	-	180	-
70+ Total	33775 (8%)	3454 (22%)	695 (80%)	177 (37%)	2582 (6%)	603 (51%)	916 (5%)	24410 (5%)	271	3489 (5%)	632
Any age Sm.	9977	3090	2099	408	583	620	222	5130	-	915	-
Any age Total	61520 (16%)	8764 (35%)	2383 (88%)	718 (57%)	5663 (10%)	1031 (60%)	1709 (13%)	38692 (13%)	1199	6656 (14%)	3469

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	4060.9	1911.8	1822.1	286.8	298.0	295.5	242.4	234.1	248.6	216.7	169.8	72.3	84.9
2000	3890.1	1790.4	1752.7	266.5	279.5	286.7	279.2	223.1	207.7	210.0	168.8	113.7	64.5
NUMBER OF DEATHS (Source: WHO)													
All causes													
1995	63400	2787	28307	944	1654	2669	3212	4473	6815	8540	10237	6841	15228
2000	61520	2263	25482	740	1298	2239	3474	4107	5444	8180	10050	10792	12933
Lung cancer													
1995	2699	18	2012	35	77	196	234	411	540	519	389	154	126
2000	2383	10	1678	23	59	157	280	301	373	485	372	222	101
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	1435.3*	154.3*	1672.2*	329.1	555.0	903.2	1325.1	1910.7	2741.4	3940.9	6028.9	9462.0	17936.4
2000	1432.2*	138.3*	1589.2*	277.7	464.4	781.0	1244.3	1840.9	2621.1	3895.2	5953.8	9491.6	20051.2
All cancer													
1995	209.8*	12.3*	351.0*	46.7	97.7	182.1	278.5	480.6	596.9	774.8	922.3	1160.4	1038.9
2000	195.0*	7.8*	321.9*	42.8	76.2	160.8	279.4	405.6	531.5	756.7	899.9	1061.6	1128.7
Lung cancer													
1995	59.6*	0.9*	119.0*	12.2	25.8	66.3	96.5	175.6	217.2	239.5	229.1	213.0	148.4
2000	53.2*	0.6*	104.3*	8.6	21.1	54.8	100.3	134.9	179.6	231.0	220.4	195.3	156.6
Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)													
1995	18.7*	0.4*	36.4*	4.2	12.1	32.5	40.4	53.0	54.7	57.7	58.9	74.7	36.5
2000	16.5*	0.2*	32.7*	2.3	7.5	24.8	36.5	46.2	51.5	60.5	44.4	55.4	60.5
Other cancer													
1995	131.5*	11.0*	195.6*	30.3	59.7	83.2	141.5	252.0	325.0	477.6	634.3	872.8	853.9
2000	125.3*	7.0*	184.8*	31.9	47.6	81.3	142.6	224.6	300.4	465.2	635.1	810.9	911.6
Chronic obstructive pulmonary disease (COPD)													
1995	25.2*	0.4*	29.2*	2.4	2.0	7.4	16.1	26.5	55.5	94.1	147.8	222.7	303.9
2000	23.3*	0.2*	27.6*	1.9	1.8	5.9	13.6	26.9	59.7	83.3	114.9	165.3	342.6
Other respiratory disease													
1995	51.9*	16.0*	52.0*	12.9	25.8	33.2	50.3	55.5	75.6	110.3	176.7	322.3	570.1
2000	42.7*	15.0*	36.4*	10.1	16.8	19.9	23.6	44.4	46.2	93.8	148.1	277.0	544.2
Vascular disease													
1995	849.2*	14.7*	886.7*	92.1	190.6	375.3	624.6	957.3	1564.0	2402.9	4058.9	6715.1	13215.5
2000	889.2*	17.6*	885.3*	80.3	179.2	342.5	617.1	990.6	1561.4	2425.7	4064.6	6925.2	15000.0
Liver cirrhosis													
1995	35.0*	1.9*	68.3*	22.0	43.0	55.2	84.6	79.0	93.3	101.1	93.1	109.3	64.8
2000	27.6*	1.7*	53.7*	11.6	18.2	47.1	62.0	74.4	73.7	88.6	77.6	88.0	62.0
Other medical causes													
1995	162.3*	48.2*	151.3*	45.7	67.8	105.9	126.7	165.3	227.3	320.7	483.5	720.6	2454.7
2000	170.1*	50.6*	152.3*	36.8	56.9	87.2	130.0	182.0	237.8	335.7	509.5	797.7	2669.8
All non-medical causes													
1995	102.0*	60.9*	133.8*	107.4	128.2	144.2	144.4	146.5	128.7	137.1	146.6	211.6	288.6
2000	84.4*	45.3*	112.1*	94.2	115.2	117.5	118.6	117.0	110.7	111.4	139.2	176.8	303.9

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

1995, 2000: BULGARIA

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	1471	181	4	9	168	4	186	164	12	590	334
35-69	Sm.	809	203	160	15	28	59	16	436	-	95	-
	Total	13715	3727	328	72	3327	167	257	7271	229	1509	555
		(6%)	(5%)	(49%)	(21%)	(1%)	(35%)	(6%)	(6%)		(6%)	
70+	Sm.	882	130	104	9	17	137	17	524	-	74	-
	Total	36084	2714	234	58	2422	443	903	27460	154	4024	386
		(2%)	(5%)	(44%)	(16%)	(1%)	(31%)	(2%)	(2%)		(2%)	
Any age	Sm.	1691	333	264	24	45	196	33	960	-	169	-
	Total	51270	6622	566	139	5917	614	1346	34895	395	6123	1275
		(3%)	(5%)	(47%)	(17%)	(1%)	(32%)	(2%)	(3%)		(3%)	
2000												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	1266	145	3	6	136	3	137	185	6	511	279
35-69	Sm.	679	167	134	10	23	40	13	380	-	79	-
	Total	13176	3421	299	55	3067	128	239	7260	200	1427	501
		(5%)	(5%)	(45%)	(18%)	(1%)	(31%)	(5%)	(5%)		(6%)	
70+	Sm.	492	81	66	5	10	69	8	294	-	40	-
	Total	39125	2955	224	59	2672	441	812	30004	152	4357	404
		(1%)	(3%)	(29%)	(8%)	(0%)	(16%)	(1%)	(1%)		(1%)	
Any age	Sm.	1171	248	200	15	33	109	21	674	-	119	-
	Total	53567	6521	526	120	5875	572	1188	37449	358	6295	1184
		(2%)	(4%)	(38%)	(13%)	(1%)	(19%)	(2%)	(2%)		(2%)	

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+/ <i>NK</i>
POPULATION (1000s; UN, 2004 revision)													
1995	4235.9	1838.7	1948.5	290.5	305.4	306.9	255.9	255.4	278.2	256.2	221.4	97.9	129.4
2000	4106.6	1715.5	1895.1	265.5	286.5	299.9	299.5	247.0	241.7	255.0	220.0	169.0	107.0
NUMBER OF DEATHS (Source: WHO)													
All causes													
1995	51270	1471	13715	343	584	938	1202	1939	3377	5332	8488	6726	20870
2000	53567	1266	13176	343	569	870	1397	1863	2946	5188	8336	11600	19189
Lung cancer													
1995	566	4	328	5	12	31	45	54	77	104	110	61	63
2000	526	3	299	7	14	30	39	50	65	94	104	74	46
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	886.5*	88.0*	734.1*	118.1	191.2	305.6	469.7	759.2	1213.9	2081.2	3833.8	6870.3	16128.3
2000	918.8*	86.7*	727.4*	129.2	198.6	290.1	466.4	754.3	1218.9	2034.5	3789.1	6863.9	17933.6
All cancer													
1995	123.6*	9.9*	197.6*	48.2	73.0	127.1	170.8	235.7	310.9	417.6	544.7	662.9	663.8
2000	118.2*	8.0*	185.9*	50.1	74.7	117.7	172.6	219.0	290.4	376.9	497.3	626.0	750.5
Lung cancer													
1995	10.4*	0.2*	17.5*	1.7	3.9	10.1	17.6	21.1	27.7	40.6	49.7	62.3	48.7
2000	9.4*	0.2*	16.4*	2.6	4.9	10.0	13.0	20.2	26.9	36.9	47.3	43.8	43.0
Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)													
1995	2.7*	0.5*	3.8*	1.7	0.7	2.6	4.3	4.3	4.0	9.4	10.4	15.3	15.5
2000	2.2*	0.3*	3.0*	1.5	1.7	1.0	3.3	2.4	4.1	6.7	7.3	14.2	17.8
Other cancer													
1995	110.5*	9.2*	176.2*	44.8	68.4	114.4	148.9	210.3	279.3	367.7	484.6	585.3	599.7
2000	106.6*	7.5*	166.6*	46.0	68.1	106.7	156.3	196.4	259.4	333.3	442.7	568.0	689.7
Chronic obstructive pulmonary disease (COPD)													
1995	10.5*	0.2*	9.0*	0.7	2.3	2.6	3.5	12.1	16.2	25.4	41.1	104.2	193.2
2000	9.6*	0.3*	7.1*	0.4	1.7	2.0	4.3	10.5	9.1	21.6	46.4	72.8	201.9
Other respiratory disease													
1995	26.0*	12.1*	13.7*	3.1	5.9	7.2	10.2	15.7	13.7	40.6	93.5	164.5	413.4
2000	23.5*	10.9*	13.1*	2.6	5.6	6.3	8.7	10.5	24.8	33.3	66.4	145.6	392.5
Vascular disease													
1995	579.1*	8.9*	392.1*	32.4	58.0	102.6	199.7	368.4	685.8	1297.8	2720.9	5311.5	12547.1
2000	614.4*	11.2*	405.1*	34.3	64.2	99.0	195.0	394.3	706.2	1342.4	2739.1	5329.0	13992.5
Liver cirrhosis													
1995	7.3*	0.7*	12.2*	2.4	4.3	6.8	8.6	13.7	19.4	30.1	31.6	28.6	43.3
2000	6.6*	0.4*	11.0*	3.8	2.8	4.0	10.0	15.8	21.1	19.6	35.0	22.5	34.6
Other medical causes													
1995	113.3*	38.0*	80.4*	14.5	27.8	36.2	50.8	87.3	138.0	208.4	339.2	506.6	2146.1
2000	121.4*	39.8*	78.5*	19.6	29.3	35.7	49.7	78.9	134.9	201.6	345.9	588.8	2430.8
All non-medical causes													
1995	26.9*	18.2*	29.1*	16.9	20.0	23.1	26.2	26.2	29.8	61.3	62.8	91.9	121.3
2000	25.1*	16.2*	26.7*	18.5	20.2	25.3	26.0	25.1	32.3	39.2	59.1	79.3	130.8

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

BULGARIA: 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	- / 1.3	-
35–69	7.4 / 25	0.7 / 13	20 years
70+	2.6 / 34	0.5 / 39	8 years
All ages	10 / 62	1.2 / 54	17 years

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

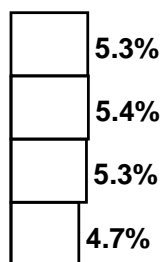
Cause	Male (by age)				Female (by age)			
	0–34	35–69	70+	All	0–34	35–69	70+	All
Lung Cancer	-/0.0	1.5/1.7	0.6/0.7	2.1/2.4	-/0.0	0.1/0.3	0.1/0.2	0.2/0.5
All Cancer	-/0.1	2.3/5.2 (45%)	0.8/3.5 (22%)	3.1/8.8	-/0.1	0.2/3.4 (5%)	0.1/3.0 (3%)	0.2/6.5
Vascular	-/0.3	3.8/14	1.3/24	5.1/39	-/0.2	0.4/7.3	0.3/30	0.7/37
Respiratory	-/0.2	0.5/1.0	0.4/1.5	0.8/2.7	-/0.1	0.1/0.4	0.1/1.3	0.1/1.8
All Other	-/1.6	0.7/5.3	0.2/4.4	0.9/11	-/0.8	0.1/2.1	0.0/4.9	0.1/7.8
All Causes	-/2.3	7.4/25 (29%)	2.6/34 (8%)	10/62	-/1.3	0.7/13 (5%)	0.5/39 (1%)	1.2/54

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

Cause	Male	Female	Male + Female
All Cancer	3.1 / 8.8 (35%)	0.2 / 6.5 (4%)	3.3 / 15 (22%)
All Causes	10 / 62 (16%)	1.2 / 54 (2%)	11 / 115 (10%)

1985-2000: BULGARIA

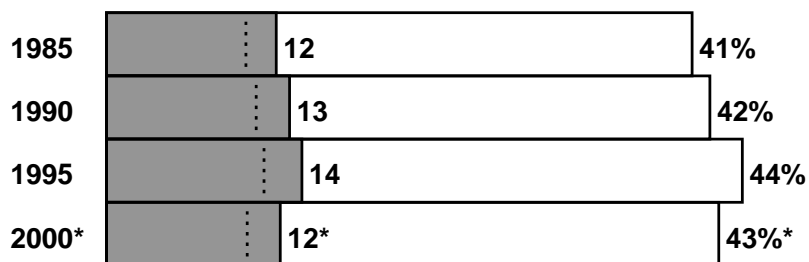
Population risk of dying at ages 0–34



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

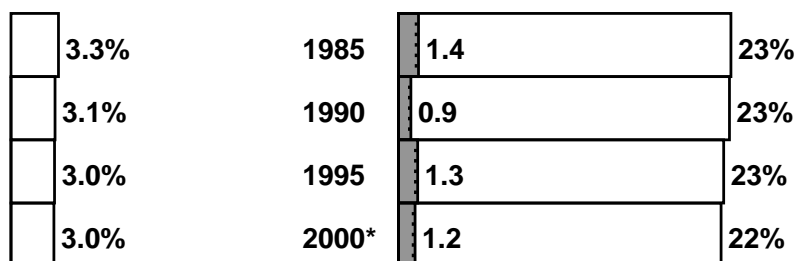
*eg, at year 2000 male death rates, out of 100 men aged 35, 43 would die before age 70 (with 12 of these deaths attributed to smoking)

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



BULGARIA: 1980-2000

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	...	...	...	...	...	...	...	...
1960	...	...	...	...	...	...	...	...
1965	...	...	...	...	...	...	...	...
1970	...	...	...	...	...	...	...	...
1975	...	...	...	...	...	...	...	...
1980	...	...	...	...	...	...	...	...
1985	-/3.4	7.5/24 (31%)	2.8/32 (9%)	10/59	-/2.0	0.7/13 (6%)	0.9/33 (3%)	1.6/48
1990	-/3.3	8.4/27 (31%)	2.2/30 (8%)	11/60	-/1.8	0.5/14 (4%)	0.5/33 (1%)	1.0/49
1995	-/2.8	8.8/28 (31%)	2.7/32 (8%)	12/63	-/1.5	0.8/14 (6%)	0.9/36 (2%)	1.7/51
2000	-/2.3	7.4/25 (29%)	2.6/34 (8%)	10/62	-/1.3	0.7/13 (5%)	0.5/39 (1%)	1.2/54

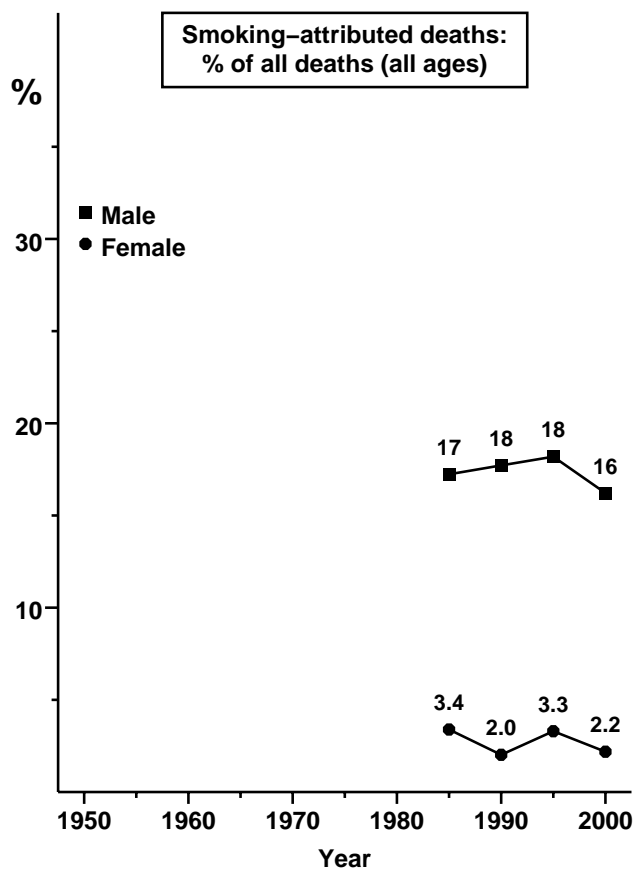
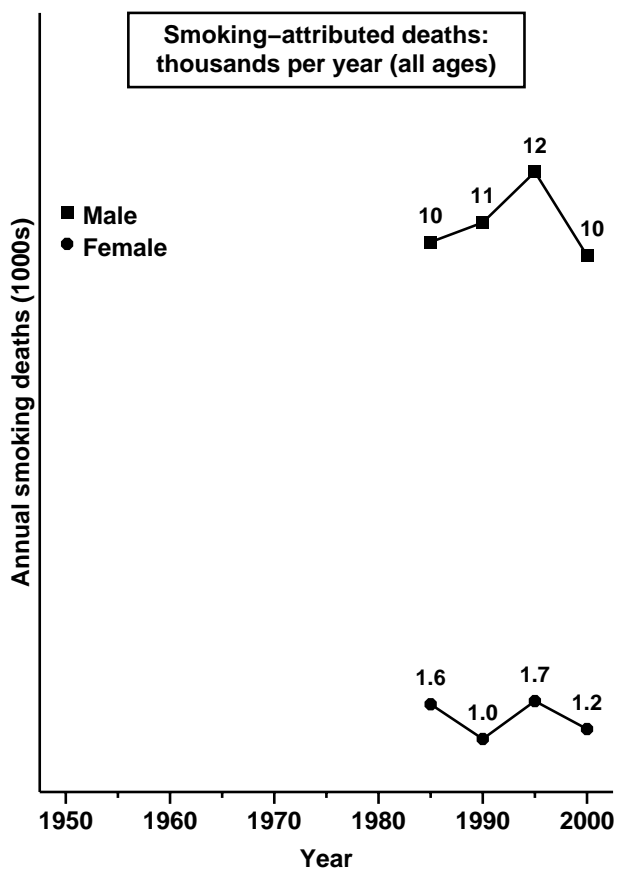
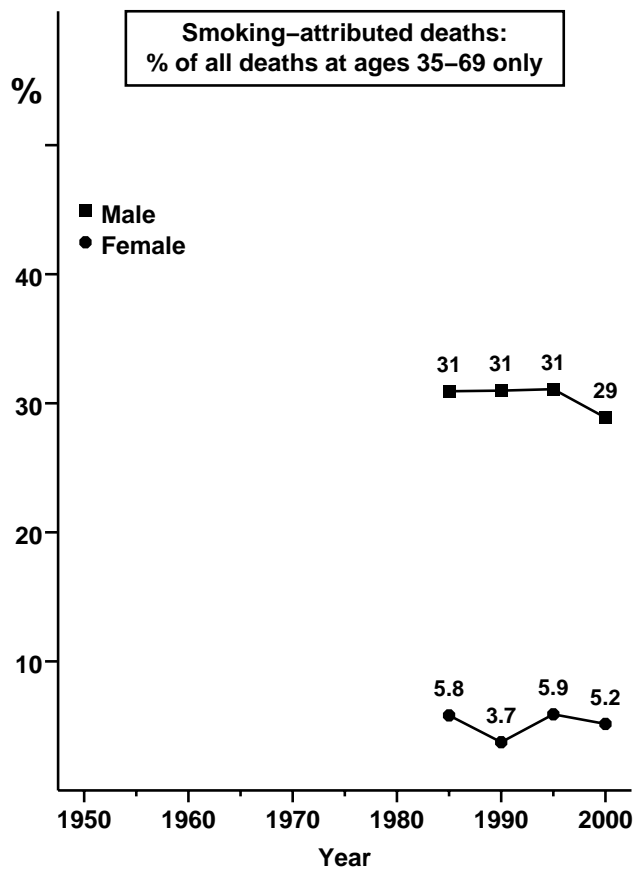
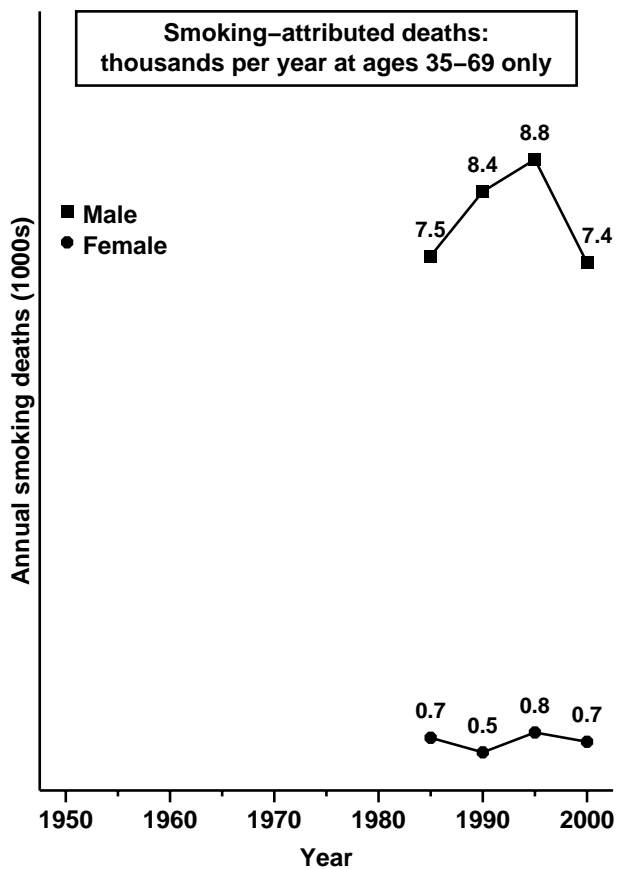
20-year total* (thousands), mid-1980 to mid-2000: 251 / 2222

1980-2000 by age & sex:

-/62	163/524 (31%)	55/641 (9%)	218/1227	-/35	15/264 (6%)	18/696 (3%)	33/994
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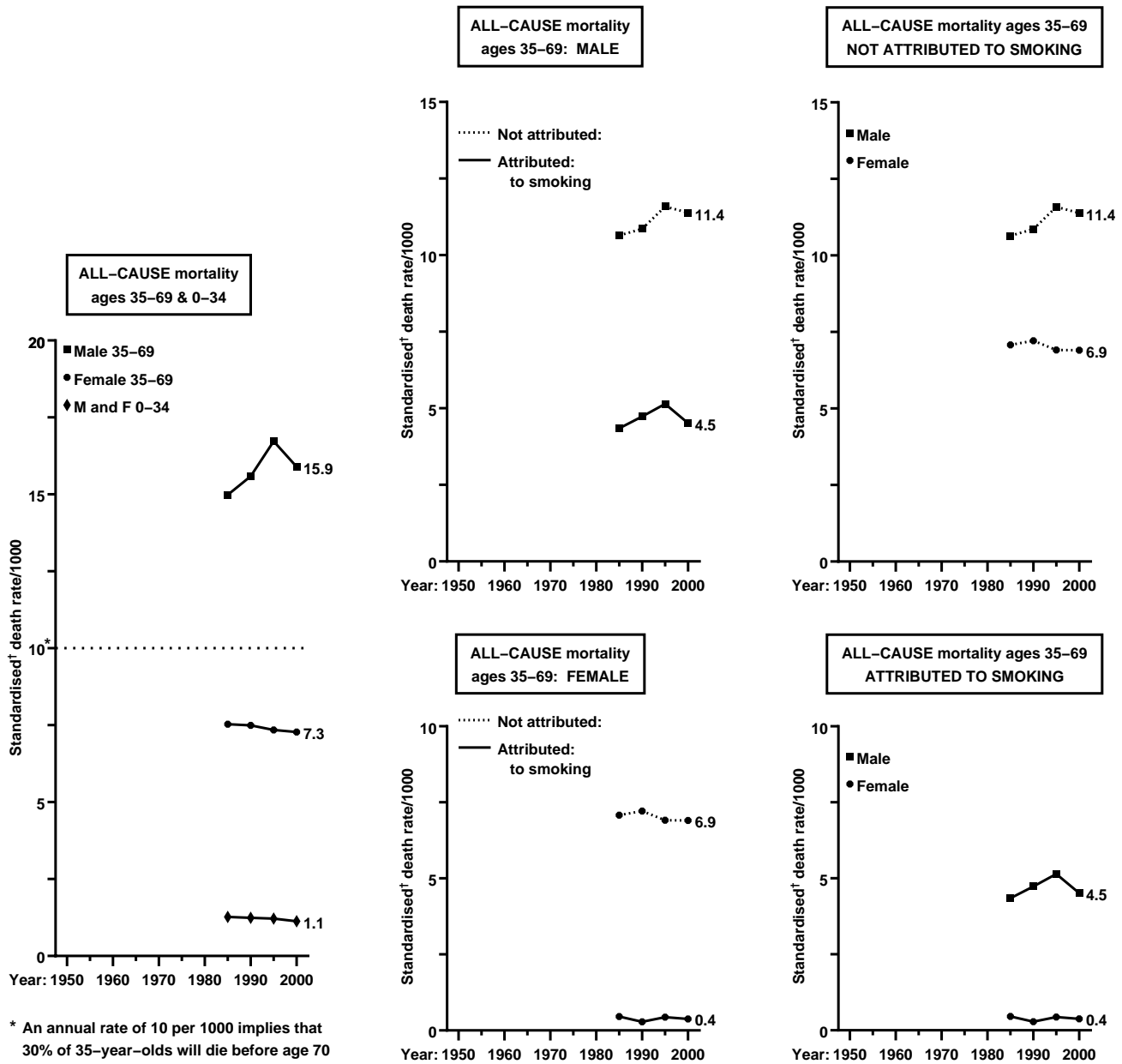
*Estimated as 10 times the sum of the annual numbers for 1985 & 1995

1985-2000: BULGARIA



BULGARIA: 1985-2000

ALL-CAUSE mortality rates attributed and not attributed to smoking

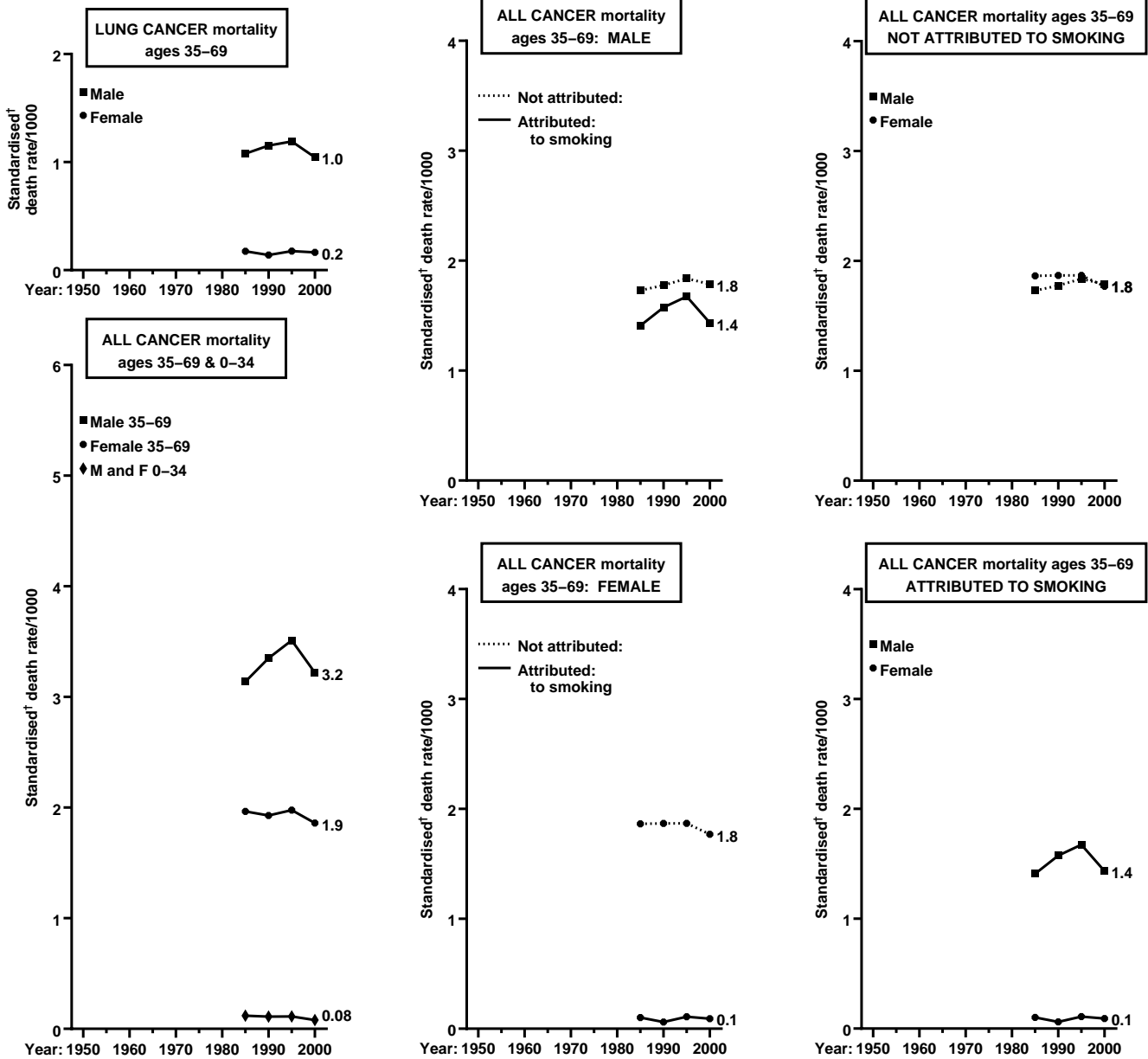


Year	MALE all-cause mortality (annual rate/1000, by age)						FEMALE all-cause mortality (annual rate/1000, by age)					
	0-34		35-69		70-79		0-34		35-69		70-79	
	Attributed to smoking?	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
1950	
1955	
1960	
1965	
1970	
1975	
1980	
1985	-	1.57	4.34	10.6	7.91	72.3	-	0.96	0.45	7.07	1.69	57.7
1990	-	1.58	4.73	10.9	7.34	70.6	-	0.89	0.28	7.21	0.87	53.7
1995	-	1.54	5.14	11.6	7.49	70.0	-	0.88	0.43	6.91	1.51	52.0
2000	-	1.38	4.51	11.4	6.77	70.5	-	0.87	0.37	6.90	0.91	52.4

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

1985-2000: BULGARIA

ALL CANCER mortality rates attributed and not attributed to smoking



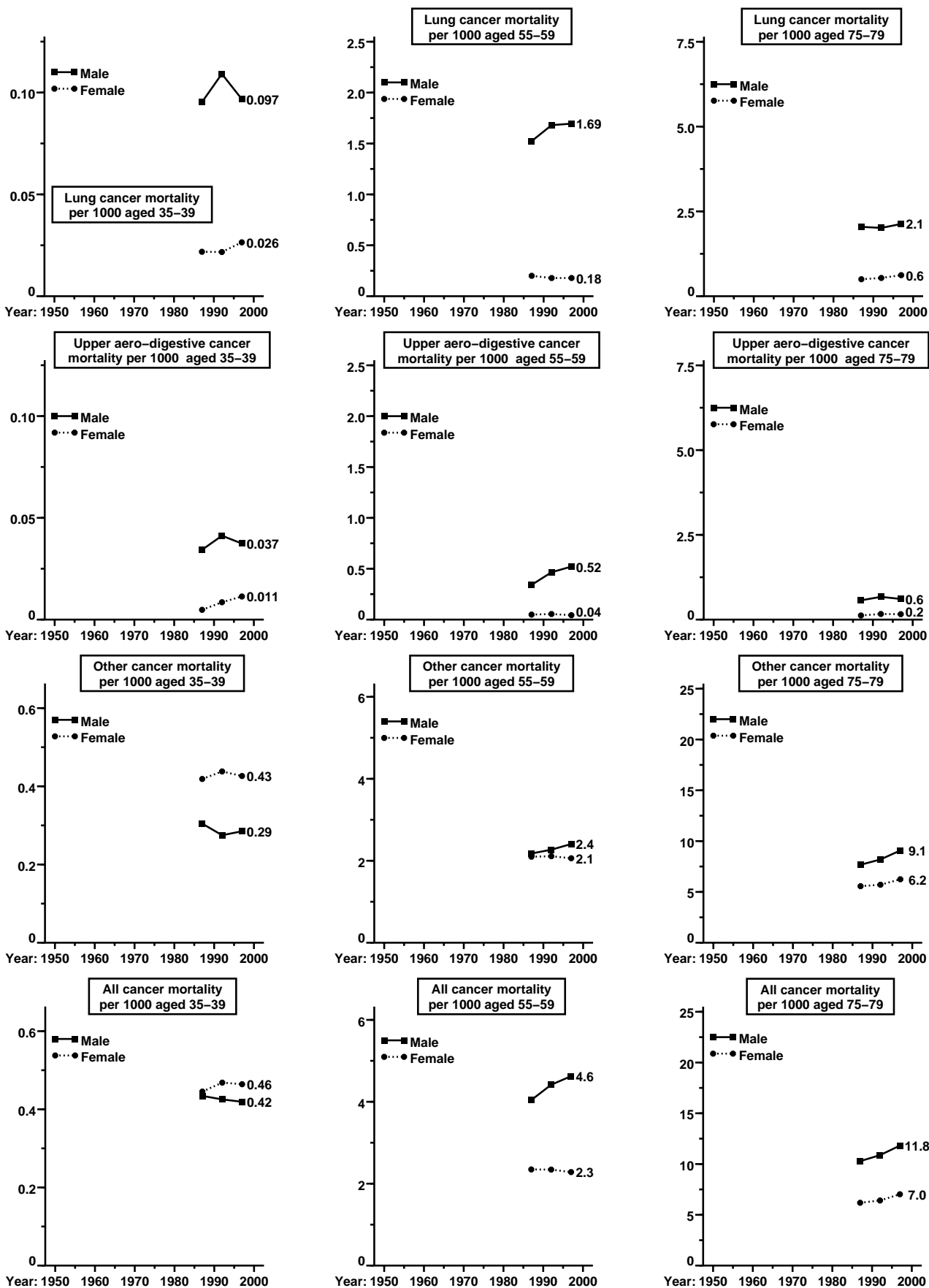
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

Year	MALE cancer mortality (annual rate/1000, by age)								FEMALE cancer mortality (annual rate/1000, by age)							
	Attributed to smoking?		0-34		35-69		70-79		Attributed to smoking?		0-34		35-69		70-79	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
1950
1955
1960
1965
1970
1975
1980
1985	-	0.12	1.41	1.73	2.31	7.35	-	0.12	0.10	1.86	0.29	5.79				
1990	-	0.12	1.57	1.78	2.33	7.82	-	0.10	0.06	1.87	0.16	5.55				
1995	-	0.12	1.67	1.84	2.51	7.90	-	0.10	0.11	1.87	0.31	5.73				
2000	-	0.08	1.43	1.79	2.26	7.55	-	0.08	0.09	1.77	0.17	5.45				

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

BULGARIA: 1985-2000

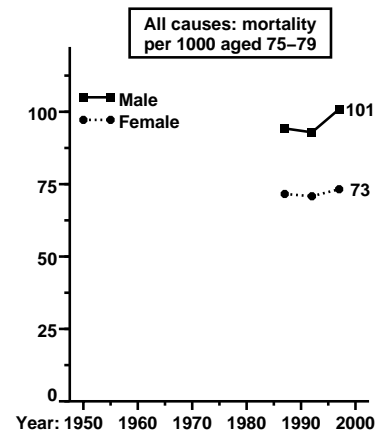
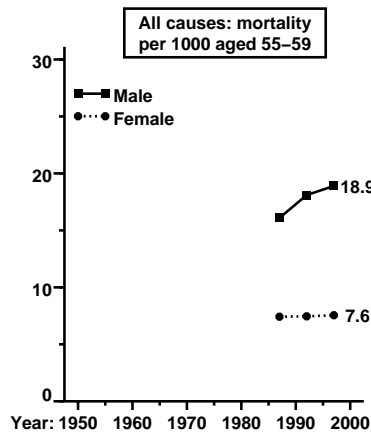
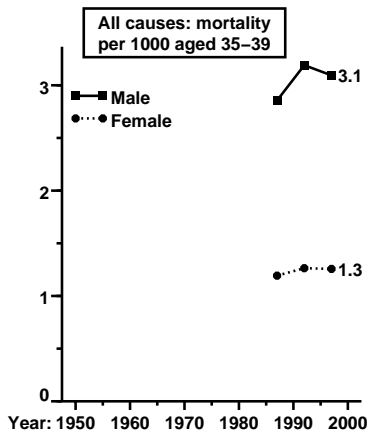
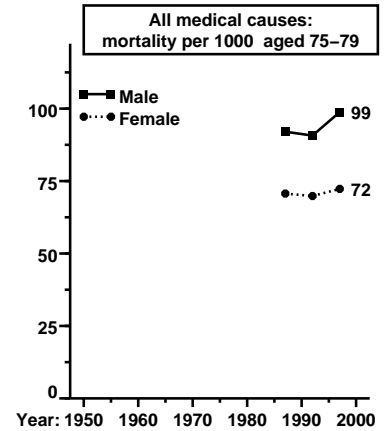
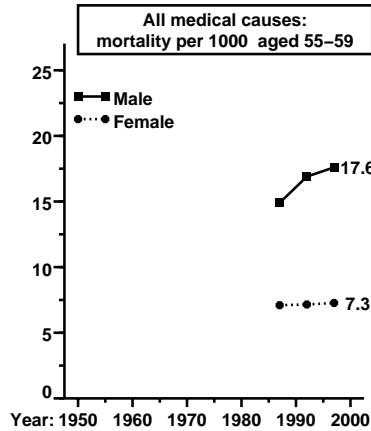
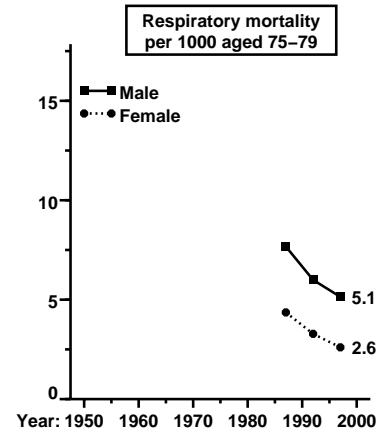
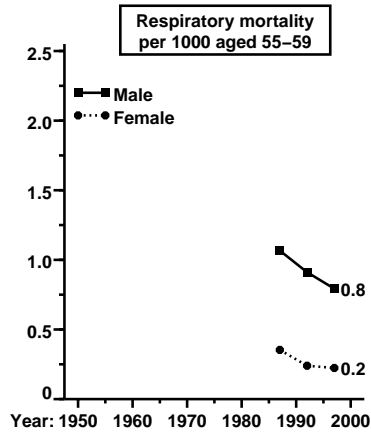
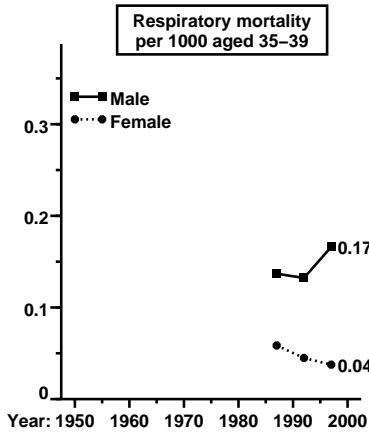
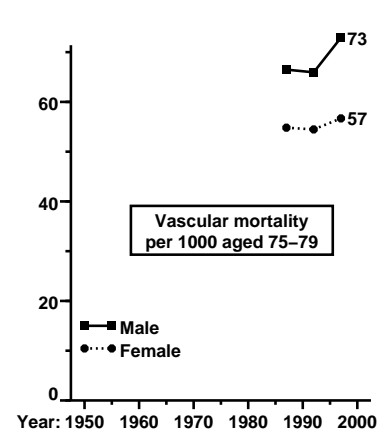
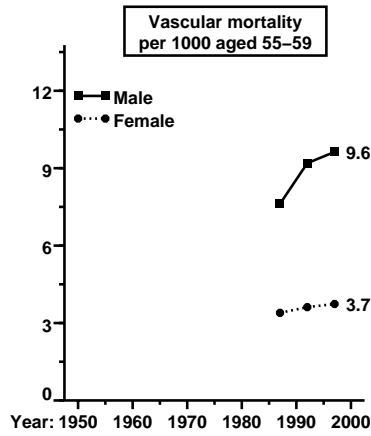
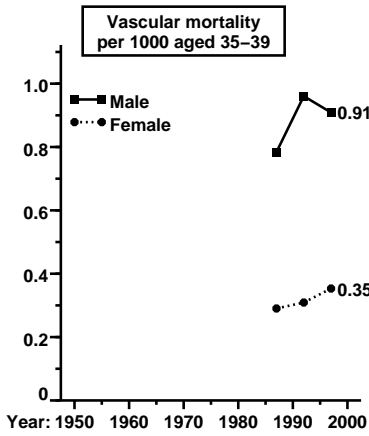
Mortality* trends at selected ages: 35-39, 55-59 & 75-79



* Annual mortality per 1000: averages of years available in 1985-89,....,1995-99; year 2000 on pages 98-99

1985-2000: BULGARIA

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



* Annual mortality per 1000: averages of years available in 1985-89,....,1995-99; year 2000 on pages 98-99