

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

(2nd edition, revised June 2006:  
[www.deathsfromsmoking.net](http://www.deathsfromsmoking.net))

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**CZECH REPUBLIC**

**Raw data** (pages 140–41, 142–43)

**Analyses** (pages 144–45, 146–47, 148–49)

**Appendix** (pages 150–51)

## CZECH REPUBLIC: 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	54882	1971	23232	1162.6	79.5	1282.2	117.6	20.9	22.0	68.6	101.9	100.5	124.9
	F	54119	830	11544	706.3	37.9	564.9	91.7	13.3	17.4	31.3	34.0	32.7	44.6
Tuberculosis	M	91	1	59	1.9	0.0	2.8	-	-	-	-	-	-	0.3
	F	34	1	8	0.4	0.0	0.4	-	-	-	-	-	0.2	-
HIV	M	1	1	-	0.0	0.0	-	-	-	-	-	-	-	0.3
	F	-	-	-	-	-	-	-	-	-	-	-	-	-
Other infective and parasitic	M	58	7	26	1.2	0.3	1.3	1.3	-	-	0.3	0.2	0.2	0.3
	F	84	6	27	1.2	0.3	1.3	0.9	-	0.6	0.3	0.2	-	-
ALL CANCER	M	15878	185	8308	325.7	7.3	468.1	4.8	5.0	3.9	5.9	5.4	10.7	15.8
	F	12661	145	5202	178.7	6.1	249.8	5.9	2.4	5.4	3.5	5.9	7.5	11.9
Mouth and pharynx cancer	M	477	2	389	9.4	0.1	18.9	-	-	-	-	0.2	0.2	-
	F	113	-	55	1.6	-	2.6	-	-	-	-	-	-	-
Oesophagus cancer	M	343	2	244	6.8	0.1	12.3	-	-	-	-	-	0.2	0.3
	F	64	-	27	0.9	-	1.2	-	-	-	-	-	-	-
Stomach cancer	M	905	10	412	18.7	0.4	23.5	-	-	-	-	-	0.9	1.7
	F	660	7	216	9.0	0.3	10.4	-	-	-	-	0.2	-	1.8
Colorectal cancer	M	2517	9	1171	52.2	0.4	68.1	-	-	-	0.3	-	0.2	2.0
	F	1885	4	640	25.6	0.2	31.4	-	-	-	-	-	0.5	0.6
Liver cancer	M	525	2	296	10.8	0.1	16.7	0.4	-	-	-	0.2	-	-
	F	350	1	112	4.7	0.0	5.6	-	-	-	-	-	0.2	-
Pancreas cancer	M	777	4	445	15.7	0.2	24.9	-	-	-	-	0.2	-	0.9
	F	789	-	276	10.7	-	13.7	-	-	-	-	-	-	-
Larynx cancer	M	254	-	182	5.1	-	9.8	-	-	-	-	-	-	-
	F	23	-	9	0.3	-	0.4	-	-	-	-	-	-	-
Lung cancer	M	4480	6	2772	90.2	0.2	157.1	-	-	0.3	-	-	0.5	0.9
	F	1246	3	632	18.2	0.1	30.6	-	-	-	-	-	-	0.9
Malignant melanoma	M	171	4	100	3.5	0.1	5.3	-	-	-	-	0.2	0.5	0.3
	F	144	2	69	2.1	0.1	3.1	-	-	-	-	0.5	-	-
Female breast cancer	F	1939	5	929	28.0	0.2	43.3	-	-	-	-	-	-	1.5
Cervix cancer	F	363	10	235	5.8	0.4	10.5	-	-	-	-	-	1.2	1.5
Other uterine cancer	F	581	2	226	8.0	0.1	11.1	-	-	-	-	-	0.2	0.3
Ovarian cancer	F	729	7	381	10.8	0.3	17.9	-	-	-	0.3	0.2	0.2	1.2
Prostate cancer	M	1327	-	287	29.0	-	18.7	-	-	-	-	-	-	-
Bladder cancer	M	541	-	195	11.4	-	12.0	-	-	-	-	-	-	-
	F	207	-	54	2.7	-	2.6	-	-	-	-	-	-	-
Other and ill-defined cancer sites	M	2548	106	1334	52.1	4.3	73.5	3.5	3.6	2.1	3.7	2.9	6.0	8.0
	F	2665	59	1004	37.3	2.5	48.8	2.3	1.4	3.8	1.5	2.8	2.9	2.7
Hodgkin's disease	M	53	11	27	1.0	0.4	1.4	-	-	-	0.6	0.7	0.7	0.9
	F	48	8	21	0.8	0.3	1.0	0.5	-	0.3	-	0.5	0.2	0.9
Myeloma and non-Hodgkin lymphomas	M	455	7	229	9.3	0.2	13.2	-	-	0.3	-	0.2	0.9	0.3
	F	444	10	166	6.2	0.4	8.2	0.5	0.3	-	0.6	0.7	0.7	-
Leukaemia	M	505	22	225	10.5	0.9	12.8	0.9	1.3	1.2	1.4	0.7	0.5	0.6
	F	411	27	150	6.0	1.2	7.4	2.7	0.7	1.3	1.2	0.9	1.2	0.6
Diabetes	M	601	5	235	12.5	0.2	13.6	-	-	-	-	0.2	0.2	0.9
	F	813	4	160	10.2	0.2	8.2	-	-	-	-	0.2	0.2	0.6
ALL VASCULAR DISEASE	M	26468	107	8751	577.2	4.0	506.9	1.3	-	1.5	2.3	4.5	7.0	11.7
	F	31724	51	3817	391.1	2.0	196.7	0.9	0.3	0.3	1.2	2.1	4.4	4.8
Rheumatic heart disease and fever	M	128	4	72	2.5	0.1	4.0	-	-	-	-	-	0.5	0.6
	F	185	1	61	2.5	0.0	3.0	-	-	-	-	-	0.2	-
Hypertensive disease	M	563	1	242	11.9	0.0	14.4	-	-	-	-	-	-	0.3
	F	649	-	138	8.2	-	7.1	-	-	-	-	-	-	-
Ischaemic heart disease	M	12034	18	4739	256.2	0.7	272.3	-	-	-	-	0.4	1.2	3.2
	F	11350	6	1644	140.7	0.2	85.5	-	-	-	-	0.5	0.5	0.6
Pulmonary embolism and other venous	M	818	14	363	17.2	0.5	20.7	-	-	-	-	0.4	0.7	2.6
	F	1185	10	265	15.3	0.4	13.2	-	-	-	0.3	-	1.0	1.5
Cerebrovascular disease	M	6991	22	1653	156.7	0.8	99.7	0.4	-	0.3	0.6	1.1	1.9	1.4
	F	10352	13	992	126.1	0.5	51.4	0.5	-	-	-	0.7	1.0	1.5
Other vascular disease	M	5934	48	1682	132.7	1.8	95.9	0.9	-	1.2	1.7	2.5	2.8	3.7
	F	8003	21	717	98.2	0.8	36.6	0.5	0.3	0.3	0.9	0.9	1.7	1.2
Chronic obstructive pulmonary disease	M	1174	8	437	24.8	0.3	26.2	-	-	-	0.6	0.2	0.2	1.1
	F	702	4	166	9.1	0.2	8.4	-	-	0.3	-	-	0.2	0.6
Other respiratory disease	M	1463	49	510	32.2	2.2	27.3	5.6	1.0	0.6	1.7	2.0	2.1	2.0
	F	1620	30	258	20.8	1.4	12.6	3.6	0.3	0.6	0.6	1.4	1.0	2.1
Peptic ulcer	M	307	4	157	6.3	0.2	8.2	-	-	-	0.3	0.2	-	0.6
	F	301	1	66	3.9	0.0	3.2	-	-	-	-	0.2	-	-
Liver cirrhosis	M	1223	23	1019	23.9	0.9	48.8	0.4	-	-	-	-	0.9	5.2
	F	523	7	374	8.5	0.3	16.8	-	-	-	-	-	0.2	1.8
Renal disease	M	529	2	204	11.4	0.1	11.5	0.4	-	-	-	-	-	0.3
	F	744	8	180	9.6	0.3	8.9	-	-	-	0.9	0.2	0.5	0.6
Pregnancy, birth	F	5	5	-	0.1	0.2	-	-	-	-	0.3	0.2	0.5	0.3
Congenital and perinatal causes	M	182	179	3	6.2	10.9	0.1	73.8	1.0	0.9	0.6	-	-	0.3
	F	149	148	1	5.2	9.4	0.0	61.6	2.1	0.6	1.2	0.2	-	-
Ill-defined causes	M	286	21	137	6.2	0.9	7.0	3.0	-	-	0.8	1.1	0.7	0.9
	F	287	7	42	3.8	0.4	2.0	1.8	-	-	-	0.2	-	0.6
Other medical causes	M	1927	142	919	40.1	5.9	47.2	10.4	2.3	3.9	4.8	6.1	6.5	7.4
	F	2096	100	573	28.9	4.4	27.0	6.8	4.2	1.6	5.3	3.7	4.1	5.1
ALL NON-MEDICAL CAUSES	M	4694	1237	2467	93.0	46.0	113.2	16.5	11.6	11.2	51.4	81.9	71.9	77.9
	F	2376	313	670	34.8	12.7	29.6	10.0	3.8	7.9	18.0	19.2	13.8	16.4
Road traffic accidents	M	802	369	353	15.1	13.5	15.9	1.3	4.3	3.6	18.4	27.2	20.5	19.2
	F	284	108	112	5.0	4.3	4.9	4.1	1.0	2.2	5.9	8.4	5.6	3.0
Fire	M	47	6	29	1.0	0.3	1.3	0.4	0.3	-	-	0.2	0.2	0.6
	F	17	1	3	0.2	0.0	0.1	-	-	-	-	0.2	-	-
Suicide	M	1298	321	769	24.9	11.5	34.6	-	-	2.4	9.0	24.1	20.7	24.3
	F	351	55	193	5.8	2.1	8.3	-	-	1.3	3.0	3.5	2.7	4.5
Homicide	M	104	35	64	2.1	1.5	2.6	2.6	-	-	0.8	1.1	1.9	3.7
	F	50	16	29	1.0	0.7	1.3	0.9	-	0.6	1.2	0.5	0.5	1.2
<b>POPULATION:</b> (1000s; UN, 2004 revision)			<b>M=male</b>		4996.2	2441.7	2202.9	230.4	302.1	331.2	354.2	444.6	430.0	349.2
			<b>F=female</b>		5271.3	2335.9	2317.5	219.3	286.4	316.1	338.3	426.7	413.0	336.1

## 2000: CZECH REPUBLIC

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			
178.2	326.9	557.4	909.1	1401.8	2207.4	3394.5	5091.0	7931.3	17143.7	M	ALL CAUSES	001-999/A00-Y89
73.1	137.4	246.6	384.5	588.4	916.8	1607.7	2796.7	5117.2	14809.9	F		
0.3	0.9	2.8	3.8	3.6	6.0	2.5	7.3	6.9	15.6	M	Tuberculosis	010-018, 137/ A15-A19, B90
-	0.3	0.5	0.5	-	0.8	0.4	2.4	3.8	6.7	F		
-	-	-	-	-	-	-	-	-	-	M	HIV	279.5, 279.6/B20-B24
-	-	-	-	-	-	-	-	-	-	F		
-	0.3	0.8	2.3	1.7	1.9	2.0	3.6	6.9	15.6	M	Other infective and parasitic	Rest of 001-139/rest of A00-B99 excl A33,A34
-	0.3	0.5	1.7	1.5	1.6	3.2	4.5	11.0	10.4	F		
23.8	69.6	163.8	327.9	548.9	873.5	1269.4	1648.3	2173.5	3039.8	M	ALL CANCER	140-208/C00-C97
31.7	61.3	119.8	202.3	301.7	422.6	609.3	837.5	1159.1	1735.1	F		
0.9	9.4	14.8	24.3	28.1	28.4	26.4	25.5	18.9	31.3	M	Mouth and pharynx cancer	140-149/C00-C14
-	1.4	2.0	2.0	2.1	3.6	7.1	4.5	10.0	15.9	F		
1.2	2.9	9.5	13.7	17.5	17.2	24.4	30.9	23.2	27.0	M	Oesophagus cancer	150/C15
0.3	0.6	0.7	1.2	2.1	2.8	0.8	2.9	7.1	9.2	F		
2.3	5.1	8.0	15.4	22.2	39.1	72.2	91.6	153.8	217.6	M	Stomach cancer	151/C16
1.8	3.8	5.5	7.8	9.8	14.8	29.4	45.7	60.0	122.0	F		
2.3	8.0	18.8	39.3	75.1	125.6	207.4	272.9	402.1	596.0	M	Colorectal cancer	153, 154/C18-C21
2.7	6.4	10.5	22.3	37.6	59.6	80.9	120.5	188.7	337.2	F		
0.3	1.1	4.8	12.7	21.2	36.3	40.7	52.8	64.4	92.5	M	Liver cancer	155.0/C22 excl C221
0.9	0.6	2.0	3.7	5.8	12.0	13.9	29.4	34.8	56.4	F		
1.2	3.4	9.5	17.5	30.1	53.0	59.5	82.5	101.4	105.3	M	Pancreas cancer	157/C25
0.3	1.7	4.5	10.1	15.0	26.0	38.1	60.8	85.3	113.4	F		
0.6	1.7	5.3	8.6	12.6	16.7	22.9	23.0	18.0	18.5	M	Larynx cancer	161/C32
-	-	0.2	-	1.2	-	1.6	2.4	1.0	3.7	F		
2.6	14.0	48.5	109.4	200.7	307.9	416.9	470.6	508.6	475.1	M	Lung cancer	162/C33, C34
3.0	3.8	14.4	24.0	37.6	57.2	74.2	92.7	101.0	105.5	F		
1.2	1.1	2.5	5.3	6.3	8.4	12.2	17.6	15.5	28.4	M	Malignant melanoma	172/C43
0.6	0.9	2.0	4.9	3.1	5.2	5.2	10.6	10.0	15.9	F		
4.8	11.0	27.2	42.4	60.9	66.0	90.8	105.8	164.4	245.9	F	Female breast cancer	174/C50
6.6	6.7	8.0	11.3	12.2	12.4	16.3	18.0	18.6	21.5	F	Cervix cancer	180/C53
0.9	2.6	3.7	7.1	13.2	16.4	34.1	46.1	61.9	67.4	F	Other uterine cancer	179, 182/C54, C55
1.2	4.1	11.0	16.9	25.1	30.4	36.5	49.0	58.1	60.7	F	Ovarian cancer	183/C56, C570-C574
-	0.9	1.0	4.1	11.2	34.0	79.8	163.7	289.5	615.9	M	Prostate cancer	185/C61
0.3	0.6	1.8	5.3	8.6	26.0	41.7	54.0	118.6	169.3	M	Bladder cancer	188/C67
0.3	0.3	1.2	1.5	4.0	4.4	6.7	14.7	24.3	40.5	F		
5.2	16.0	29.4	57.7	86.6	135.3	184.0	242.0	330.8	460.9	M	Other and ill-defined cancer sites	Rest of 140-199/ rest of C00-C80, C97
5.1	13.3	20.4	37.0	54.5	83.2	127.7	176.0	243.9	404.0	F		
0.3	1.1	0.8	1.0	2.3	0.5	3.6	3.0	6.9	2.8	M	Hodgkin's disease	201/C81
0.3	0.6	0.5	1.0	0.3	1.2	3.2	2.0	3.3	4.3	F		
2.9	1.4	4.3	7.1	12.6	25.6	38.6	53.4	61.9	83.9	M	Myeloma and non- Hodgkin lymphomas	200, 202-203/ C82-C90, C96
0.6	2.0	2.7	5.4	9.8	14.4	22.2	33.9	49.5	49.7	F	Leukaemia	204-208/C91-C95
2.6	2.9	4.8	6.6	13.9	19.5	39.1	64.9	60.1	115.2	M		
2.4	1.7	3.2	3.7	7.3	12.8	20.6	22.5	37.2	61.9	F		
0.6	2.0	4.5	7.3	14.6	27.9	38.1	75.8	107.4	157.9	M	Diabetes	250/E10-E14
-	0.9	1.5	2.9	10.1	13.6	28.6	63.3	102.0	171.7	F		
30.1	75.9	158.5	296.3	509.9	900.0	1577.5	2650.1	4491.4	11396.9	M	ALL VASCULAR DISEASE	390-459/I00-199
7.8	20.5	50.6	83.6	162.2	328.1	724.3	1499.8	3126.7	10803.2	F		
0.9	0.9	1.3	3.8	3.3	4.7	13.2	13.3	16.3	15.6	M	Rheumatic heart disease and fever	390-398/I00-I09
-	0.9	1.0	1.7	3.4	4.4	9.9	16.7	19.5	25.1	F		
0.6	1.4	3.3	9.6	10.3	26.0	49.3	60.0	87.6	169.3	M	Hypertensive disease	401-405/I10-I15
0.6	0.9	3.2	3.2	3.4	9.6	28.6	38.8	68.6	166.8	F		
12.2	43.4	89.4	166.4	287.0	503.7	803.8	1279.6	1975.1	4079.7	M	Ischaemic heart disease	410-414/I20-I25
1.5	5.8	17.9	33.1	71.9	147.7	320.5	624.7	1210.6	3451.3	F		
2.3	5.1	7.3	12.4	19.2	39.1	59.5	81.9	124.6	229.0	M	Pulmonary embolism and other venous	415.1, 451-453/ I26, I80-I82
1.5	2.3	5.7	5.1	17.4	22.4	37.7	79.6	124.8	277.7	F		
4.9	8.0	20.1	45.6	93.6	169.8	355.9	682.8	1314.4	3783.8	M	Cerebrovascular disease	430-438/I60-I69
1.5	5.5	12.7	22.3	35.2	81.2	201.5	448.3	1037.6	3722.3	F		
9.3	17.1	37.2	58.5	96.6	156.7	295.9	532.4	973.4	3119.5	M	Other vascular disease	Rest of 390-459/ rest of I00-199
2.7	5.2	10.0	18.1	30.9	62.8	126.1	291.5	665.6	3160.0	F		
1.2	2.3	5.0	13.2	24.5	50.2	86.9	129.8	219.1	369.8	M	Chronic obstructive pulmonary disease	490-496/ J40-J47, J67
0.3	0.3	2.7	5.1	7.3	12.8	30.1	39.6	72.9	172.9	F		
4.3	8.6	14.3	19.0	37.4	43.7	64.1	117.6	221.6	643.0	M	Other respiratory disease	Rest of 460-519/ rest of J00-J98
2.1	4.6	6.2	8.6	10.1	18.0	38.5	59.6	136.7	551.2	F		
0.3	3.1	4.8	8.9	9.3	13.5	17.3	27.9	41.2	74.0	M	Peptic ulcer	531-533/K25-K27
0.3	0.6	1.5	3.4	2.1	4.0	10.3	13.5	31.4	82.8	F		
7.8	22.2	43.2	62.5	73.1	67.4	65.6	60.0	43.8	44.1	M	Liver cirrhosis	571/K70, K74
4.8	7.5	13.2	18.9	24.8	23.2	25.0	20.0	21.4	29.4	F		
1.2	3.4	3.8	7.9	11.9	17.2	35.1	44.9	90.2	204.8	M	Renal disease	580-590/N00-N19
0.9	1.2	3.7	6.1	8.6	11.6	30.1	41.2	87.2	166.8	F		
-	-	-	-	-	-	-	-	-	-	F	Pregnancy, birth	630-676/A34,000-099
0.3	-	-	0.5	-	-	-	-	-	-	M	Congenital and perinatal causes	740-779/A33, P00-P96, Q00-Q99
-	-	0.2	-	-	-	-	-	-	-	F	III-defined causes	780-799/R00-R99
2.0	3.1	4.8	5.6	10.9	6.5	15.8	18.2	26.6	95.3	M		
1.2	0.3	1.2	1.5	1.5	5.2	3.2	11.4	16.7	107.3	F		
11.6	22.2	31.4	43.3	51.6	77.7	92.5	145.5	252.6	472.3	M	Other medical causes	Rest of 001-799/ rest of A00-R99
6.0	10.4	19.4	20.6	28.5	43.2	61.1	123.7	187.7	445.1	F		
94.7	113.2	119.8	110.7	104.5	121.9	127.6	161.9	250.0	614.5	M	ALL NON- MEDICAL CAUSES	E800-E999/V01-Y89
18.0	29.2	25.4	29.2	30.0	32.0	43.6	80.0	160.6	527.3	F		
16.5	16.8	17.6	16.5	12.2	17.7	13.7	18.2	27.5	25.6	M	Road traffic accidents	E810-E819, E826-E829/ part of V01-V99, Y850
4.8	3.5	4.5	5.6	4.9	6.8	4.0	9.8	12.4	8.6	F		
1.2	2.3	1.3	0.3	2.6	0.9	0.5	1.8	4.3	5.7	M	Fire	E890-E899/X00-X09
-	-	0.2	0.2	-	0.4	-	1.2	1.4	4.3	F		
32.2	41.4	40.9	32.2	28.4	27.9	39.1	43.1	63.6	89.6	M	Suicide	E950-E959/X60-X84
4.8	9.0	10.0	8.1	9.5	9.2	7.5	16.3	12.4	22.7	F		
4.1	3.4	5.0	1.8	2.3	1.4	0.5	1.8	0.9	1.4	M	Homicide	E960-E969/ X85-X99, Y00-Y09
0.6	3.5	0.5	1.0	0.9	0.8	1.6	1.2	0.5	0.6	F		
345.2	350.6	398.1	394.9	302.4	215.0	196.7	164.9	116.4	70.3	M	POPULATION	
333.9	345.6	401.4	407.8	326.8	249.9	252.1	244.9	209.9	163.1	F	(1000s; UN, 2004 revision)	

<b>CZECH REPUBLIC: 1995, 2000</b>
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**Male smoking-attributed deaths (Sm.) and total deaths (Total)**

		ALL CAUSES	ALL CANCER	Lung cancer	Upper aero-digestive ca. (see below)	Other cancer	COPD	Other respiratory	Vascular disease	Liver cirrhosis	Other medical	Non-medical
<b>1995</b>												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	2509	212	5	5	202	11	72	150	17	582	1465
35-69	Sm.	10021	4529	2855	579	1095	315	214	4240	-	723	-
	Total	25739	8565	2998	771	4796	374	542	11070	920	1738	2530
		(39%)	(53%)	(95%)	(75%)	(23%)	(84%)	(39%)	(38%)		(42%)	
70+	Sm.	6099	2468	1573	161	734	442	150	2793	-	246	-
	Total	30677	6859	1701	252	4906	583	1090	19161	203	1638	1143
		(20%)	(36%)	(92%)	(64%)	(15%)	(76%)	(14%)	(15%)		(15%)	
Any age	Sm.	16120	6997	4428	740	1829	757	364	7033	-	969	-
	Total	58925	15636	4704	1028	9904	1174	1704	30381	1140	3958	5138
		(27%)	(45%)	(94%)	(72%)	(18%)	(78%)	(21%)	(23%)		(24%)	
<b>2000</b>												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	1971	185	6	4	175	8	49	107	23	362	1237
35-69	Sm.	8548	4179	2622	588	969	361	195	3145	-	668	-
	Total	23232	8308	2772	815	4721	437	510	8751	1019	1740	2467
		(37%)	(50%)	(95%)	(72%)	(21%)	(83%)	(38%)	(36%)		(38%)	
70+	Sm.	5550	2433	1553	155	725	538	111	2224	-	244	-
	Total	29679	7385	1702	255	5428	729	904	17610	181	1880	990
		(19%)	(33%)	(91%)	(61%)	(13%)	(74%)	(12%)	(13%)		(13%)	
Any age	Sm.	14098	6612	4175	743	1694	899	306	5369	-	912	-
	Total	54882	15878	4480	1074	10324	1174	1463	26468	1223	3982	4694
		(26%)	(42%)	(93%)	(69%)	(16%)	(77%)	(21%)	(20%)		(23%)	

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

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

	All ages	0-34	35-69	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+/ <i>NK</i>
<b>POPULATION (1000s; UN, 2004 revision)</b>													
1995	5020.2	2554.8	2151.7	353.4	405.3	408.1	319.5	235.0	226.1	204.3	162.9	66.8	84.0
2000	4996.2	2441.7	2202.9	345.2	350.6	398.1	394.9	302.4	215.0	196.7	164.9	116.4	70.3
<b>NUMBER OF DEATHS (Source: WHO)</b>													
<b>All causes</b>													
1995	58925	2509	25739	821	1518	2534	3295	3716	5797	8058	10110	6010	14557
2000	54882	1971	23232	615	1146	2219	3590	4239	4746	6677	8395	9232	12052
<b>Lung cancer</b>													
1995	4704	5	2998	22	84	217	425	536	782	932	935	357	409
2000	4480	6	2772	9	49	193	432	607	662	820	776	592	334
<b>ANNUAL DEATH RATE / 100,000</b> (*The rates for the age groups 0-34 and 35-69 are the means of seven five-yearly rates, but the all-ages rates are standardised to the conventional "European" age distribution)													
<b>All causes</b>													
1995	1302.2*	99.5*	1478.4*	232.3	374.5	620.9	1031.3	1581.3	2563.9	3944.2	6206.3	8997.0	17329.8
2000	1162.6*	79.5*	1282.2*	178.2	326.9	557.4	909.1	1401.8	2207.4	3394.5	5091.0	7931.3	17143.7
<b>All cancer</b>													
1995	342.2*	8.3*	501.3*	33.4	83.9	179.9	371.8	596.2	916.9	1327.0	1809.1	2220.1	2891.7
2000	325.7*	7.3*	468.1*	23.8	69.6	163.8	327.9	548.9	873.5	1269.4	1648.3	2173.5	3039.8
<b>Lung cancer</b>													
1995	101.9*	0.2*	177.6*	6.2	20.7	53.2	133.0	228.1	345.9	456.2	574.0	534.4	486.9
2000	90.2*	0.2*	157.1*	2.6	14.0	48.5	109.4	200.7	307.9	416.9	470.6	508.6	475.1
<b>Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)</b>													
1995	22.0*	0.2*	41.1*	3.4	11.6	32.3	49.8	56.2	67.2	67.1	71.2	86.8	92.9
2000	21.2*	0.1*	41.0*	2.6	14.0	29.6	46.6	58.2	62.3	73.7	79.4	60.1	76.8
<b>Other cancer</b>													
1995	218.3*	7.9*	282.6*	23.8	51.6	94.3	189.0	311.9	503.8	803.7	1163.9	1598.8	2311.9
2000	214.2*	7.0*	270.0*	18.5	41.6	85.7	171.9	290.0	503.3	778.9	1098.2	1604.8	2487.9
<b>Chronic obstructive pulmonary disease (COPD)</b>													
1995	21.8*	0.4*	22.8*	2.0	1.2	5.6	14.1	16.2	46.9	73.4	109.3	193.1	328.6
2000	24.8*	0.3*	26.2*	1.2	2.3	5.0	13.2	24.5	50.2	86.9	129.8	219.1	369.8
<b>Other respiratory disease</b>													
1995	38.6*	3.1*	31.2*	3.1	9.1	13.2	22.2	28.9	51.7	90.1	163.9	288.9	750.0
2000	32.2*	2.2*	27.3*	4.3	8.6	14.3	19.0	37.4	43.7	64.1	117.6	221.6	643.0
<b>Vascular disease</b>													
1995	683.3*	6.0*	664.1*	46.1	100.2	204.9	362.8	656.6	1221.1	2056.8	3512.0	5431.1	11681.0
2000	577.2*	4.0*	506.9*	30.1	75.9	158.5	296.3	509.9	900.0	1577.5	2650.1	4491.4	11396.9
<b>Liver cirrhosis</b>													
1995	23.7*	0.7*	45.7*	12.2	29.9	44.8	57.0	60.9	55.7	59.7	72.4	52.4	59.5
2000	23.9*	0.9*	48.8*	7.8	22.2	43.2	62.5	73.1	67.4	65.6	60.0	43.8	44.1
<b>Other medical causes</b>													
1995	88.3*	26.0*	93.9*	28.3	38.2	58.1	81.4	99.6	154.8	196.8	330.9	509.0	903.6
2000	85.8*	18.7*	91.6*	16.2	35.1	52.8	79.5	103.5	150.7	203.4	323.2	531.8	1035.6
<b>All non-medical causes</b>													
1995	104.5*	55.0*	119.4*	107.2	112.0	114.4	122.1	123.0	116.8	140.5	208.7	302.4	715.5
2000	93.0*	46.0*	113.2*	94.7	113.2	119.8	110.7	104.5	121.9	127.6	161.9	250.0	614.5

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

## 1995, 2000: CZECH REPUBLIC

## Female smoking-attributed deaths (Sm.) and total deaths (Total)

		ALL CAUSES	ALL CANCER	Lung cancer	Upper aero-digestive ca. (see below)	Other cancer	COPD	Other respiratory	Vascular disease	Liver cirrhosis	Other medical	Non-medical
<b>1995</b>												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	1154	182	3	2	177	4	52	88	9	449	370
35-69	Sm.	1573	551	424	32	95	78	41	735	-	168	-
	Total	13640	5587	609	86	4892	136	296	5362	297	1214	748
		(12%)	(10%)	(70%)	(37%)	(2%)	(57%)	(14%)	(14%)		(14%)	
70+	Sm.	1486	365	268	27	70	137	44	855	-	85	-
	Total	44194	7057	479	112	6466	331	1582	30119	176	2675	2254
		(3%)	(5%)	(56%)	(24%)	(1%)	(41%)	(3%)	(3%)		(3%)	
Any age	Sm.	3059	916	692	59	165	215	85	1590	-	253	-
	Total	58988	12826	1091	200	11535	471	1930	35569	482	4338	3372
		(5%)	(7%)	(63%)	(30%)	(1%)	(46%)	(4%)	(4%)		(6%)	
<b>2000</b>												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	830	145	3	0	142	4	30	51	7	280	313
35-69	Sm.	1386	570	444	36	90	96	36	533	-	151	-
	Total	11544	5202	632	91	4479	166	258	3817	374	1057	670
		(12%)	(11%)	(70%)	(40%)	(2%)	(58%)	(14%)	(14%)		(14%)	
70+	Sm.	2262	565	413	38	114	284	55	1207	-	151	-
	Total	41745	7314	611	109	6594	532	1332	27856	142	3176	1393
		(5%)	(8%)	(68%)	(35%)	(2%)	(53%)	(4%)	(4%)		(5%)	
Any age	Sm.	3648	1135	857	74	204	380	91	1740	-	302	-
	Total	54119	12661	1246	200	11215	702	1620	31724	523	4513	2376
		(7%)	(9%)	(69%)	(37%)	(2%)	(54%)	(6%)	(5%)		(7%)	

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

## Female death rates used for calculations

	All ages	0-34	35-69	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+/ NK
<b>POPULATION (1000s; UN, 2004 revision)</b>													
1995	5310.5	2442.0	2294.2	345.7	403.2	412.1	333.2	258.6	268.0	273.4	256.9	119.4	198.0
2000	5271.3	2335.9	2317.5	333.9	345.6	401.4	407.8	326.8	249.9	252.1	244.9	209.9	163.1
<b>NUMBER OF DEATHS (Source: WHO)</b>													
<b>All causes</b>													
1995	58988	1154	13640	339	655	1081	1453	1781	3035	5296	8598	7012	28584
2000	54119	830	11544	244	475	990	1568	1923	2291	4053	6849	10741	24155
<b>Lung cancer</b>													
1995	1091	3	609	11	28	45	89	86	144	206	171	91	217
2000	1246	3	632	10	13	58	98	123	143	187	227	212	172
<b>ANNUAL DEATH RATE / 100,000</b> (*The rates for the age groups 0-34 and 35-69 are the means of seven five-yearly rates, but the all-ages rates are standardised to the conventional "European" age distribution)													
<b>All causes</b>													
1995	774.8*	49.7*	673.9*	98.1	162.5	262.3	436.1	688.7	1132.5	1937.1	3346.8	5872.7	14436.4
2000	706.3*	37.9*	564.9*	73.1	137.4	246.6	384.5	588.4	916.8	1607.7	2796.7	5117.2	14809.9
<b>All cancer</b>													
1995	189.3*	7.5*	273.2*	36.4	75.1	128.4	215.2	323.3	464.9	669.3	885.9	1181.7	1702.0
2000	178.7*	6.1*	249.8*	31.7	61.3	119.8	202.3	301.7	422.6	609.3	837.5	1159.1	1735.1
<b>Lung cancer</b>													
1995	16.8*	0.1*	30.0*	3.2	6.9	10.9	26.7	33.3	53.7	75.3	66.6	76.2	109.6
2000	18.2*	0.1*	30.6*	3.0	3.8	14.4	24.0	37.6	57.2	74.2	92.7	101.0	105.5
<b>Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)</b>													
1995	2.8*	0.1*	4.2*	0.3	2.0	2.2	3.0	5.4	6.3	9.9	12.5	8.4	35.4
2000	2.9*	-	4.3*	0.3	2.0	3.0	3.2	5.5	6.4	9.5	9.8	18.1	28.8
<b>Other cancer</b>													
1995	169.6*	7.3*	239.1*	33.0	66.2	115.3	185.5	284.6	404.9	584.1	806.9	1097.2	1557.1
2000	157.6*	6.0*	214.9*	28.5	55.6	102.4	175.1	258.6	358.9	525.6	735.0	1040.0	1600.9
<b>Chronic obstructive pulmonary disease (COPD)</b>													
1995	6.3*	0.2*	7.0*	0.9	0.2	1.2	3.3	7.0	13.1	23.0	27.6	46.9	103.0
2000	9.1*	0.2*	8.4*	0.3	0.3	2.7	5.1	7.3	12.8	30.1	39.6	72.9	172.9
<b>Other respiratory disease</b>													
1995	24.0*	2.2*	14.3*	3.2	4.2	7.5	11.7	10.8	20.5	42.1	86.0	170.0	584.8
2000	20.8*	1.4*	12.6*	2.1	4.6	6.2	8.6	10.1	18.0	38.5	59.6	136.7	551.2
<b>Vascular disease</b>													
1995	436.7*	3.7*	272.8*	16.8	29.0	59.2	117.9	234.3	476.9	975.1	1938.1	3817.4	10394.9
2000	391.1*	2.0*	196.7*	7.8	20.5	50.6	83.6	162.2	328.1	724.3	1499.8	3126.7	10803.2
<b>Liver cirrhosis</b>													
1995	7.8*	0.4*	13.6*	4.3	7.9	13.1	15.6	18.2	14.9	20.8	27.6	28.5	35.9
2000	8.5*	0.3*	16.8*	4.8	7.5	13.2	18.9	24.8	23.2	25.0	20.0	21.4	29.4
<b>Other medical causes</b>													
1995	64.4*	21.1*	59.2*	12.7	16.1	28.9	42.3	61.9	100.4	152.2	260.8	387.8	778.8
2000	63.3*	15.2*	51.0*	8.4	13.9	28.6	36.8	52.3	80.0	136.9	260.1	439.7	990.8
<b>All non-medical causes</b>													
1995	46.2*	14.7*	33.9*	23.7	29.8	24.0	30.0	33.3	41.8	54.5	120.7	240.4	836.9
2000	34.8*	12.7*	29.6*	18.0	29.2	25.4	29.2	30.0	32.0	43.6	80.0	160.6	527.3

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

## CZECH REPUBLIC: 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	– / 2.0	– / 0.8	–
35–69	8.5 / 23	1.4 / 12	21 years
70+	5.6 / 30	2.3 / 42	8 years
All ages	14 / 55	3.6 / 54	15 years

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

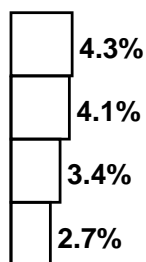
Cause	Male (by age)				Female (by age)			
	0–34	35–69	70+	All	0–34	35–69	70+	All
Lung Cancer	–/0.0	2.6/2.8	1.6/1.7	4.2/4.5	–/0.0	0.4/0.6	0.4/0.6	0.9/1.2
All Cancer	–/0.2	4.2/8.3 (50%)	2.4/7.4 (33%)	6.6/16	–/0.1	0.6/5.2 (11%)	0.6/7.3 (8%)	1.1/13
Vascular	–/0.1	3.1/8.8	2.2/18	5.4/26	–/0.1	0.5/3.8	1.2/28	1.7/32
Respiratory	–/0.1	0.6/0.9	0.6/1.6	1.2/2.6	–/0.0	0.1/0.4	0.3/1.9	0.5/2.3
All Other	–/1.6	0.7/5.2	0.2/3.1	0.9/9.9	–/0.6	0.2/2.1	0.2/4.7	0.3/7.4
All Causes	–/2.0	8.5/23 (37%)	5.6/30 (19%)	14/55	–/0.8	1.4/12 (12%)	2.3/42 (5%)	3.6/54

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

Cause	Male	Female	Male + Female
All Cancer	6.6 / 16 (42%)	1.1 / 13 (9%)	7.7 / 29 (27%)
All Causes	14 / 55 (26%)	3.6 / 54 (7%)	18 / 109 (16%)

1985-2000: CZECH REPUBLIC

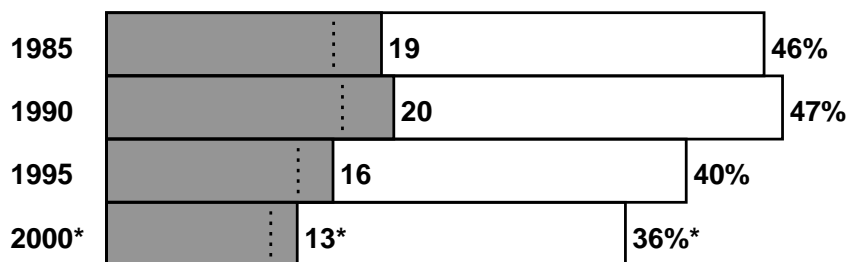
Population risk of dying at ages 0–34



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

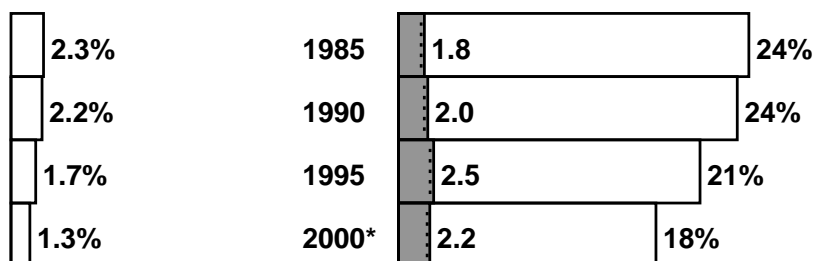
\*eg, at year 2000 male death rates, out of 100 men aged 35, 36 would die before age 70 (with 13 of these deaths attributed to smoking)

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



<b>CZECH REPUBLIC: 1980-2000</b>
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**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	-/3.3	12/27 <b>(43%)</b>	7.9/36 <b>(22%)</b>	20/67	-/1.6	1.0/14 <b>( 7%)</b>	1.4/49 <b>( 3%)</b>	2.5/65
1990	-/3.0	13/31 <b>(42%)</b>	6.1/32 <b>(19%)</b>	19/66	-/1.5	1.4/16 <b>( 9%)</b>	1.5/45 <b>( 3%)</b>	2.9/63
1995	-/2.5	10/26 <b>(39%)</b>	6.1/31 <b>(20%)</b>	16/59	-/1.2	1.6/14 <b>(12%)</b>	1.5/44 <b>( 3%)</b>	3.1/59
2000	-/2.0	8.5/23 <b>(37%)</b>	5.6/30 <b>(19%)</b>	14/55	-/0.8	1.4/12 <b>(12%)</b>	2.3/42 <b>( 5%)</b>	3.6/54

**20-year total\* (thousands), mid-1980 to mid-2000: 414 / 2496**

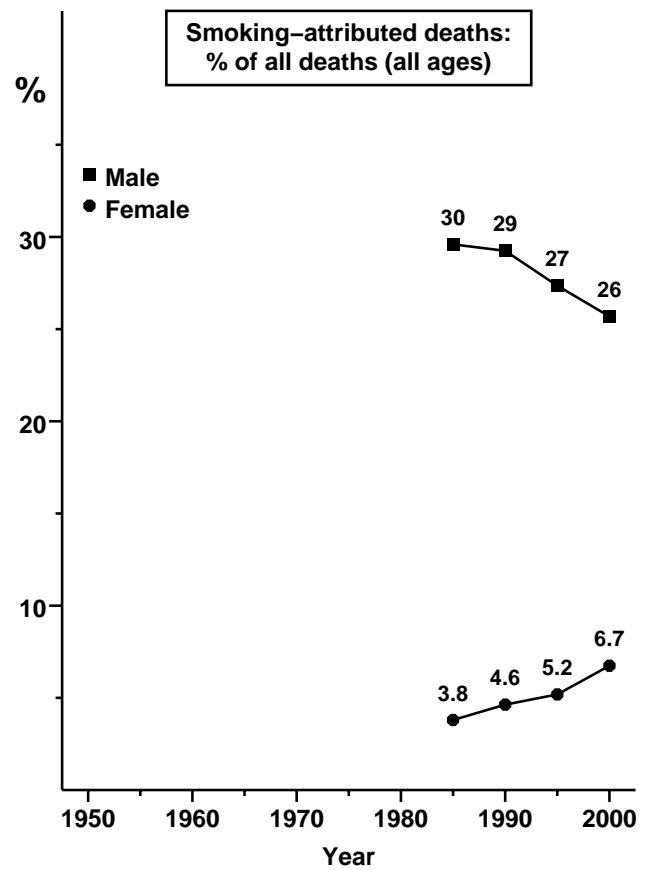
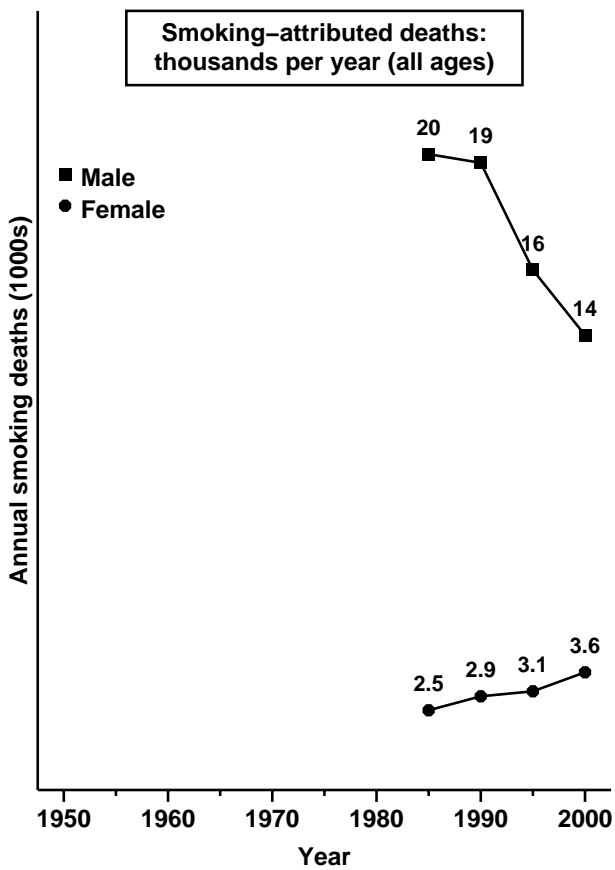
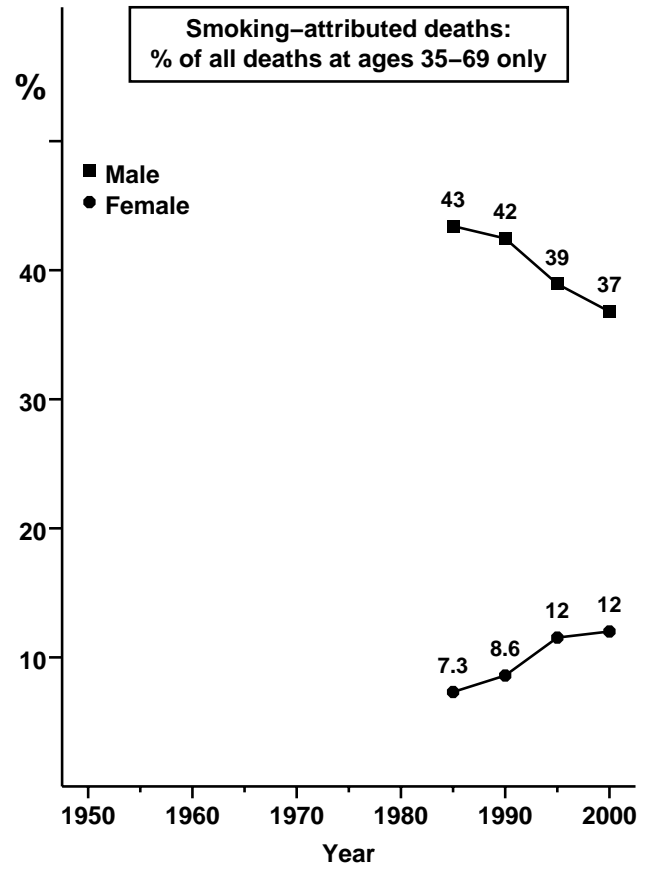
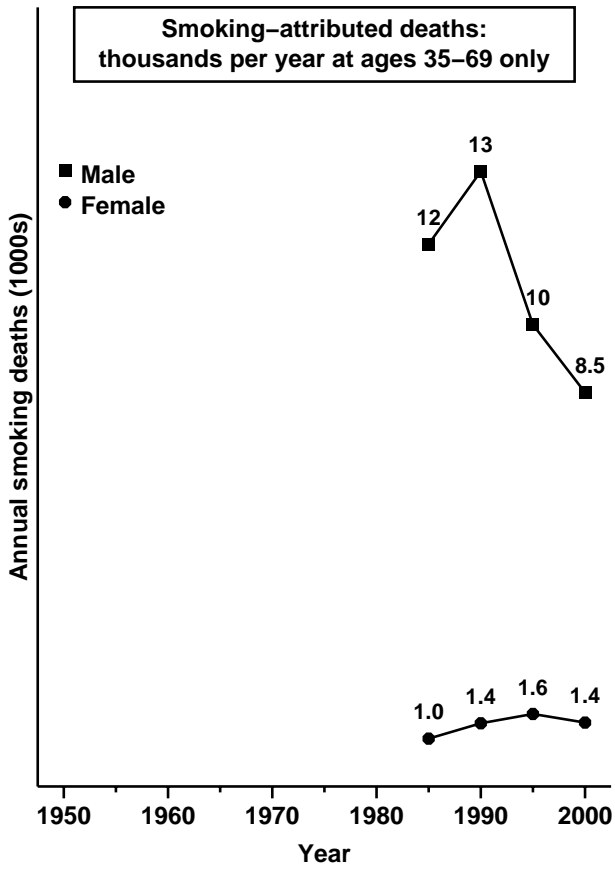
**1980-2000 by age & sex:**

-/58	218/528 <b>(41%)</b>	140/669 <b>(21%)</b>	358/1255	-/28	26/278 <b>( 9%)</b>	29/934 <b>( 3%)</b>	55/1240
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\*Estimated as 10 times the sum of the annual numbers for 1985 & 1995

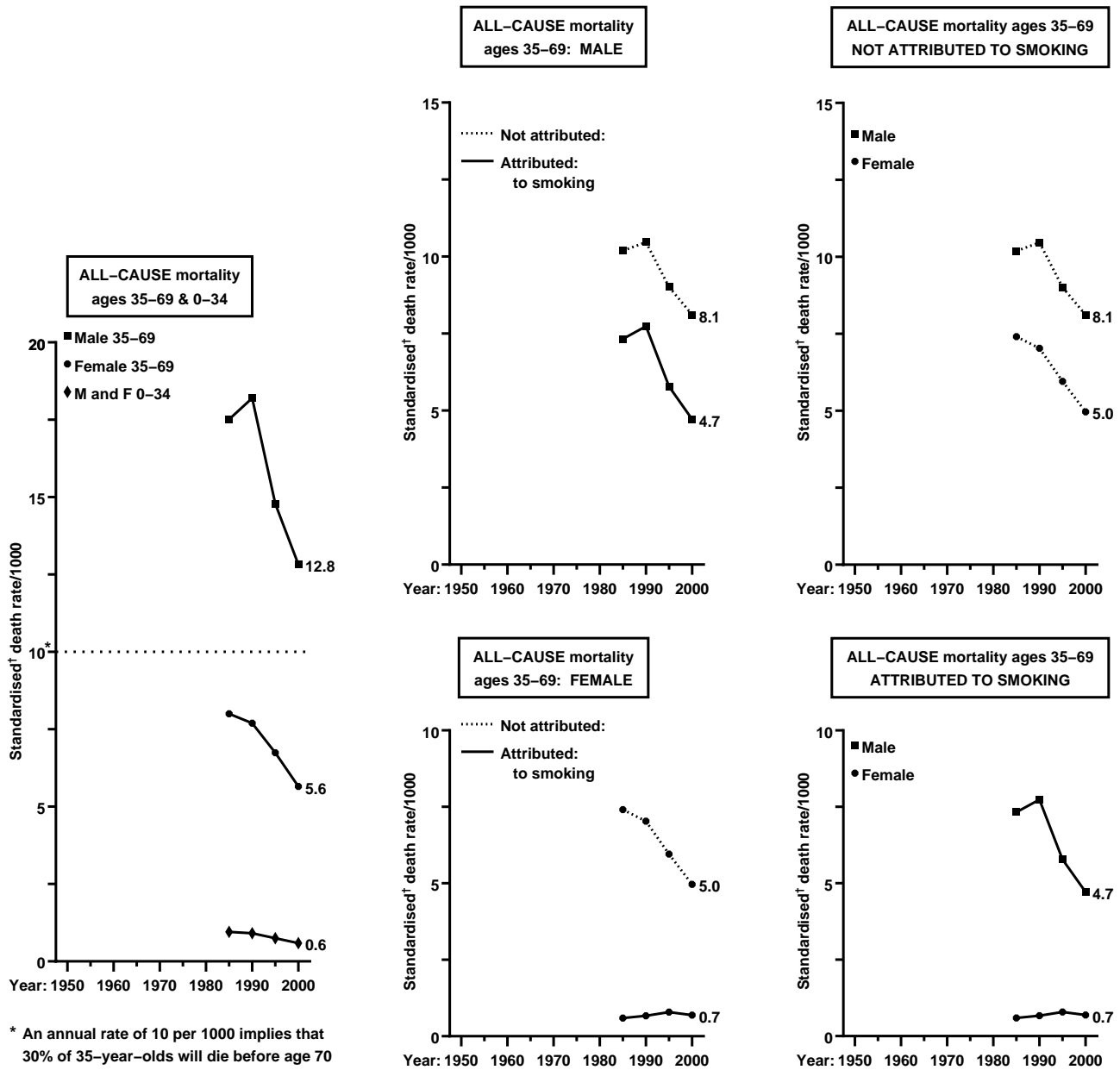


1985-2000: CZECH REPUBLIC



**CZECH REPUBLIC: 1985-2000**

**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

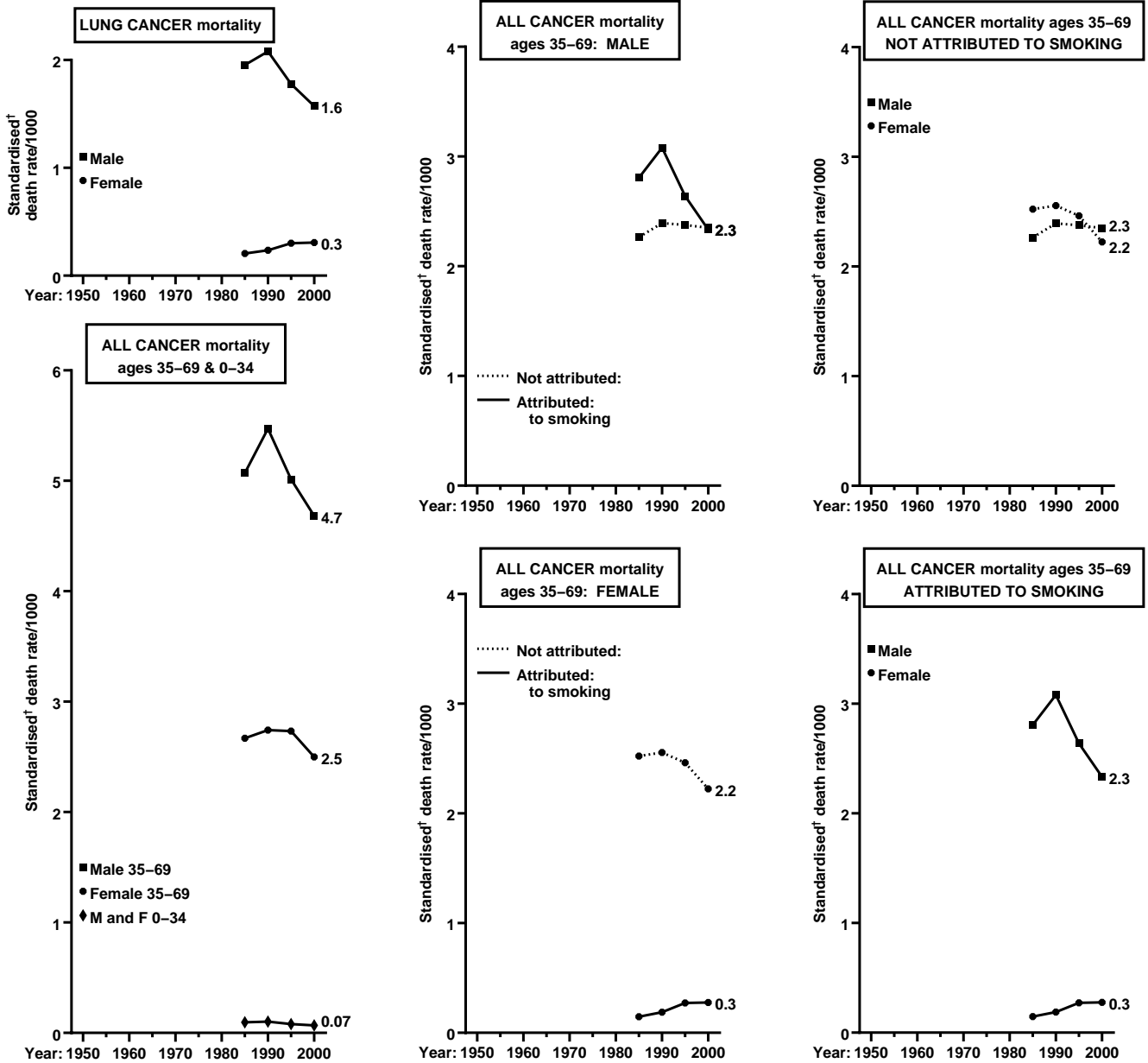
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

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	
	Attributed to smoking?	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
1950	...	...	...	...	...	...	...	...	...	...	...	...
1955	...	...	...	...	...	...	...	...	...	...	...	...
1960	...	...	...	...	...	...	...	...	...	...	...	...
1965	...	...	...	...	...	...	...	...	...	...	...	...
1970	...	...	...	...	...	...	...	...	...	...	...	...
1975	...	...	...	...	...	...	...	...	...	...	...	...
1980	...	...	...	...	...	...	...	...	...	...	...	...
1985	-	1.24	7.32	10.2	21.7	70.7	-	0.66	0.59	7.41	2.19	61.7
1990	-	1.19	7.73	10.5	19.5	69.3	-	0.63	0.67	7.03	2.17	51.3
1995	-	0.99	5.78	9.01	16.9	59.1	-	0.50	0.79	5.95	1.86	44.2
2000	-	0.79	4.71	8.11	13.8	51.3	-	0.38	0.69	4.96	2.70	36.9

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

1985-2000: CZECH REPUBLIC

ALL CANCER mortality rates attributed and not attributed to smoking



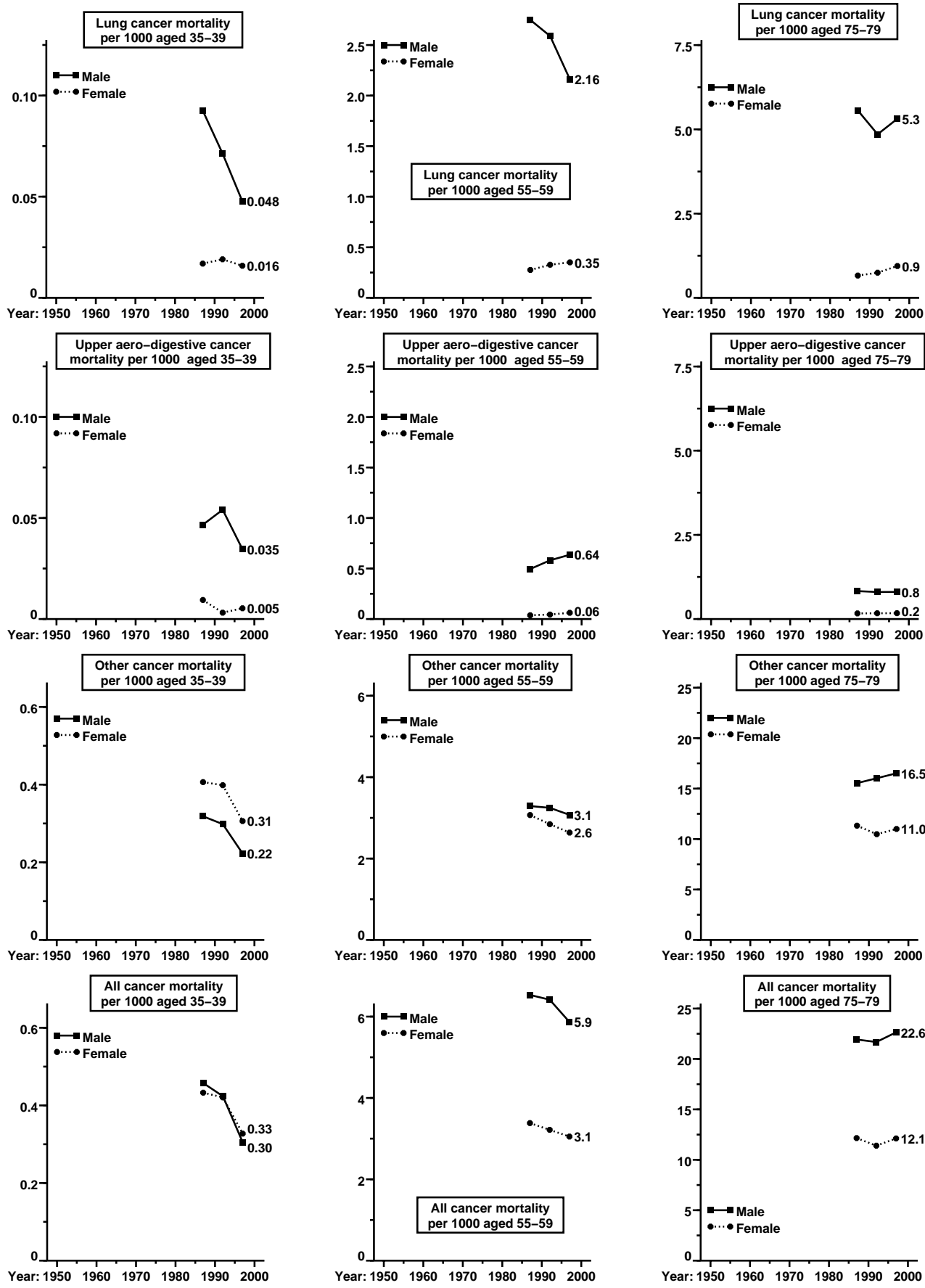
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

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		...	...	...	...	...	...	...	...	...	...		
1960		...	...	...	...	...	...	...	...	...	...		
1965		...	...	...	...	...	...	...	...	...	...		
1970		...	...	...	...	...	...	...	...	...	...		
1975		...	...	...	...	...	...	...	...	...	...		
1980		...	...	...	...	...	...	...	...	...	...		
1985	-	0.11		2.81	2.26	7.97	12.0	-	0.08	0.15	2.52	0.44	10.3
1990	-	0.11		3.08	2.39	7.77	13.1	-	0.10	0.19	2.55	0.53	10.1
1995	-	0.08		2.64	2.38	7.71	12.4	-	0.07	0.27	2.46	0.53	9.81
2000	-	0.07		2.33	2.35	6.73	12.4	-	0.06	0.28	2.22	0.87	9.11

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

**CZECH REPUBLIC: 1985-2000**

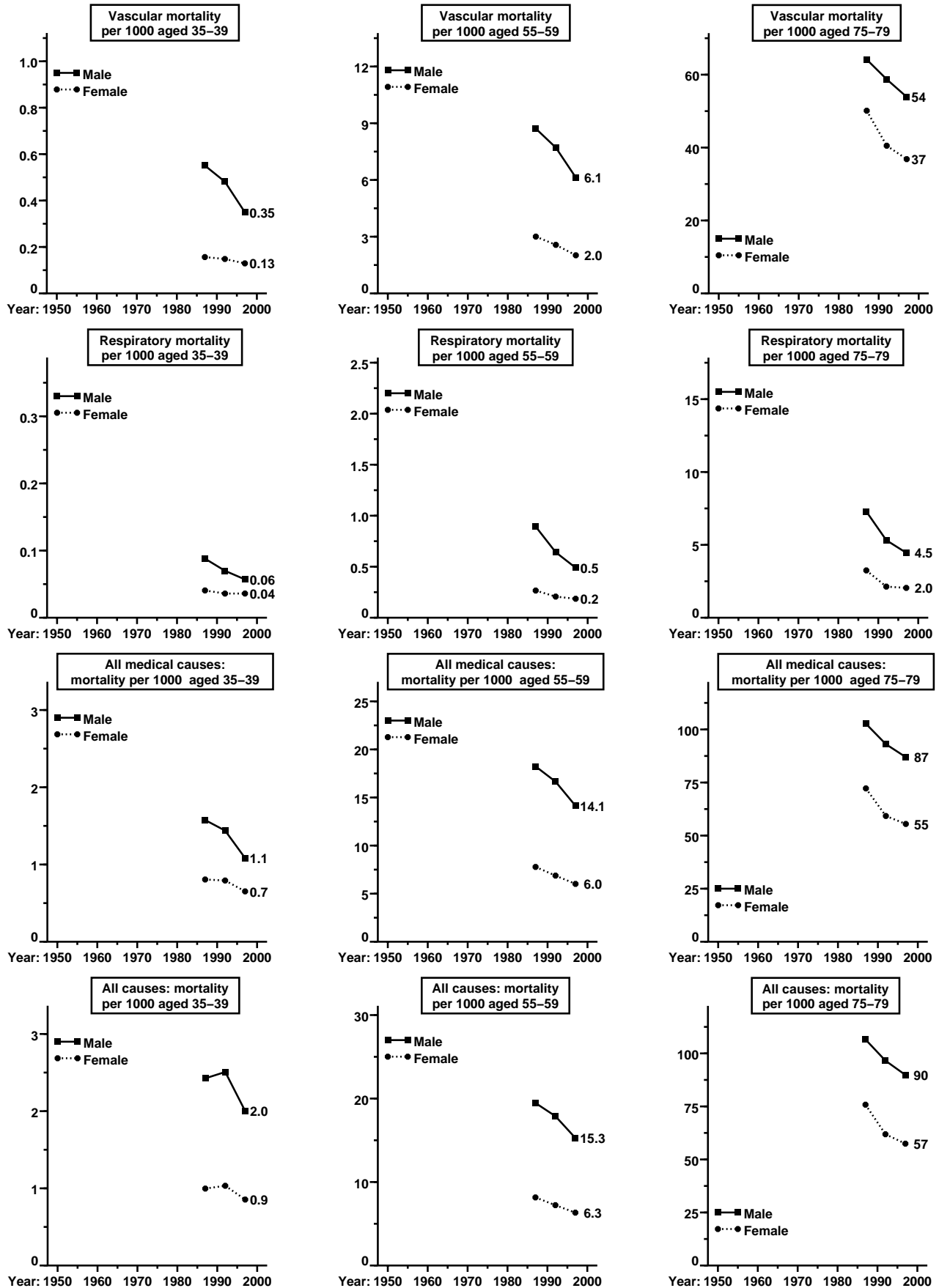
**Mortality\* trends at selected ages: 35-39, 55-59 & 75-79**



\* Annual mortality per 1000: averages of years available in 1985-89,....,1995-99; year 2000 on pages 140-141

1985-2000: CZECH REPUBLIC

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 140-141