

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

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# **RUSSIAN FEDERATION**

**Raw data** (pages 410–11, 412–13)

**Analyses** (pages 414–15, 416–17, 418–19)

**Appendix** (pages 420–21)



## 2000: RUSSIAN FEDERATION

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			
910.0	1263.4	1788.1	2432.7	3391.2	4456.5	6012.1	8110.9	10572.4	18625.0	M	ALL CAUSES	001-999/A00-Y89
231.3	334.1	506.3	753.4	1147.0	1570.6	2580.1	4154.6	6792.4	15559.2	F		
55.2	73.1	86.1	81.6	79.7	66.5	44.4	33.1	24.1	56.8	M	Tuberculosis	010-018/A15-A19
7.3	8.8	8.2	7.1	6.5	5.1	5.2	4.8	4.6	6.1	F		
34.6	24.4	21.7	17.2	9.5	3.7	3.1	1.0	0.4	-	M	HIV*	279.5, 279.6/B20-B24)
3.2	2.6	2.3	1.8	1.0	0.2	0.2	0.1	-	-	F		
5.0	5.1	4.8	6.9	6.3	6.3	6.5	6.9	7.3	7.1	M	Other infective and parasitic	Rest of 001-139/rest of A00-B99 excl A33,A34
1.9	2.2	2.7	3.6	3.9	3.9	4.3	4.2	5.7	5.4	F		
37.8	79.3	184.3	358.1	659.9	914.7	1233.8	1531.1	1647.4	1342.1	M	ALL CANCER	140-208/C00-C97
41.4	73.0	123.7	190.5	277.3	360.1	490.8	650.5	789.8	671.5	F		
1.6	5.1	13.9	27.9	40.4	44.5	48.1	46.8	39.2	31.0	M	Mouth and pharynx cancer	140-149/C00-C14
0.4	0.6	1.7	2.5	3.1	3.0	5.4	6.8	9.1	13.5	F		
0.3	1.6	5.9	15.4	29.0	34.1	42.7	47.7	51.7	35.6	M	Oesophagus cancer	150/C15
0.1	0.2	0.7	1.2	1.9	2.8	7.3	10.1	14.4	16.0	F		
5.8	12.8	29.1	51.2	96.4	138.7	195.5	246.2	274.6	216.4	M	Stomach cancer	151/C16
4.6	7.4	12.1	18.8	32.8	46.7	73.8	108.0	134.6	105.2	F		
2.5	5.1	11.4	21.8	48.4	74.9	122.9	179.4	228.8	214.9	M	Colorectal cancer	153, 154/C18-C21
3.0	6.0	10.4	19.2	35.7	50.8	76.8	109.4	141.4	125.8	F		
1.0	2.3	5.3	9.7	20.2	27.2	36.5	44.2	52.8	36.7	M	Liver cancer	155.0, 155.1/C22
0.6	1.2	2.2	3.9	6.7	10.5	14.7	20.4	24.7	18.1	F		
2.1	4.8	9.7	16.7	29.4	37.7	48.3	56.3	59.4	55.6	M	Pancreas cancer	157/C25
0.7	1.3	3.3	6.2	11.6	17.5	24.3	37.9	43.8	37.8	F		
0.9	3.1	9.6	17.3	29.3	37.0	40.9	44.0	42.2	23.0	M	Larynx cancer	161/C32
0.1	0.1	0.4	0.4	0.5	0.7	1.3	1.2	1.9	1.5	F		
6.0	17.8	51.9	112.9	227.9	321.9	409.3	493.1	430.3	265.2	M	Lung cancer	162/C33, C34
1.5	2.8	6.1	9.5	16.2	22.6	34.6	52.1	65.3	44.2	F		
1.0	1.6	2.5	3.4	3.8	4.6	5.6	6.8	9.7	8.5	M	Malignant melanoma	172/C43
1.1	1.4	2.6	2.6	2.1	3.3	4.3	5.0	6.0	7.0	F		
9.4	19.9	34.6	51.8	61.8	66.8	68.7	76.6	90.6	86.4	F	Female breast cancer	174/C50
5.4	8.7	10.2	12.0	13.4	14.4	17.0	23.0	28.8	24.1	F	Cervix cancer	180/C53
1.5	2.2	4.7	8.1	14.7	19.3	26.4	30.2	34.2	29.0	F	Other uterine cancer	179, 182/C54, C55
2.4	5.4	10.1	16.4	20.4	24.0	27.1	31.9	29.7	19.8	F	Ovarian cancer	183.0/C56
0.2	0.5	1.6	4.5	12.9	29.4	56.9	90.0	135.3	142.9	M	Prostate cancer	185/C61
0.5	1.3	3.0	6.5	16.8	27.8	46.9	68.5	88.9	103.1	M	Bladder cancer	188/C67
0.1	0.2	0.3	0.7	1.3	2.4	5.0	7.4	13.9	13.8	F		
12.3	18.6	33.6	58.4	84.8	108.8	138.3	159.4	176.7	164.7	M	Other and ill-defined cancer sites	Rest of 140-199/rest of C00-C80, C97
7.6	11.8	18.2	28.5	42.5	58.2	79.0	102.7	121.9	111.7	F	Hodgkin's disease	Not given separately
...	...	...	...	...	...	...	...	...	...	M		
...	...	...	...	...	...	...	...	...	...	F		
1.2	1.9	2.9	5.1	8.2	11.6	15.7	16.0	19.0	12.1	M	Myeloma and non-Hodgkin lymphomas	200, 202-203/C82-C85, C90
0.6	1.1	2.2	3.3	5.0	6.7	10.5	10.0	10.9	6.0	F	Leukaemia	204-208/C91-C95
2.3	2.9	4.0	7.2	12.5	16.5	26.2	32.6	38.7	32.5	M		
2.1	2.6	3.7	5.3	7.3	10.2	14.5	17.7	18.7	11.5	F		
3.1	3.5	5.0	8.3	10.5	14.9	22.2	24.5	25.4	20.1	M	Diabetes	250/E10-E14
1.7	2.5	4.2	8.0	14.9	24.3	40.2	45.9	45.9	23.6	F		
177.6	337.7	594.2	959.5	1510.0	2305.4	3486.6	5174.4	7317.3	12786.8	M	ALL VASCULAR DISEASE	390-459/I00-199
42.6	81.4	155.8	287.1	532.6	875.7	1681.9	3000.7	5264.8	12068.2	F		
3.1	5.7	9.0	12.0	14.5	16.5	17.1	12.3	8.4	6.5	M	Rheumatic heart disease and fever	390-398/I00-109
1.5	3.3	6.1	9.9	16.3	21.4	22.9	18.8	17.3	8.6	F		
3.7	7.7	13.8	25.3	38.5	58.1	83.2	92.2	99.1	114.8	M	Hypertensive disease	401-404/I10-I13
1.1	2.7	6.7	14.6	24.3	37.7	62.1	81.3	112.5	144.4	F		
83.9	177.8	334.5	556.7	863.9	1280.8	1842.2	2617.3	3669.1	5992.2	M	Ischaemic heart disease	410-414/I20-I25
13.0	26.9	55.9	109.1	223.4	380.0	750.0	1333.9	2309.4	5097.2	F		
...	...	...	...	...	...	...	...	...	...	M	Pulmonary embolism and other venous	Not given separately
...	...	...	...	...	...	...	...	...	...	F		
25.3	53.2	109.0	202.8	393.4	694.4	1191.9	1937.8	2809.0	5058.7	M	Cerebrovascular disease	430-438/I60-I69
10.0	22.9	50.2	105.0	202.6	353.1	707.3	1300.4	2335.3	5219.0	F		
61.6	93.2	127.9	162.7	199.7	255.6	352.2	514.8	731.7	1614.7	M	Other vascular disease, incl. venous	Rest of 390-459/rest of I00-199
17.1	25.8	36.9	48.6	66.0	83.4	139.6	266.3	490.2	1598.9	F	Chronic obstructive pulmonary disease	490-494, 496/J40-J47
4.3	8.3	19.6	41.0	94.3	184.4	333.1	476.9	606.0	733.1	M	Other respiratory disease	Rest of 460-519/rest of J00-J98
1.2	2.4	4.9	7.9	16.2	27.3	54.9	90.9	141.2	258.7	F		
37.9	57.5	86.2	110.3	123.5	125.3	116.7	106.6	109.0	230.9	M		
8.8	11.4	15.9	18.8	19.9	19.7	23.6	32.6	42.5	74.4	F		
4.9	7.8	12.6	19.0	24.7	27.6	34.5	40.2	41.5	45.9	M	Peptic ulcer	531-533/K25-K27
0.7	1.4	1.9	2.7	3.8	4.8	7.5	10.9	17.5	19.9	F		
20.8	32.1	44.9	58.0	70.3	76.9	75.9	70.7	61.1	53.1	M	Liver cirrhosis & other liver disease	570-573/K70-K76
8.2	13.4	19.4	27.7	44.1	37.1	35.5	35.5	38.9	28.4	F	Renal disease	Not given separately
...	...	...	...	...	...	...	...	...	...	M		
...	...	...	...	...	...	...	...	...	...	F		
1.8	0.7	0.1	-	0.1	0.0	-	-	-	-	F	Pregnancy, birth	630-676/O00-O99
1.3	1.5	1.7	1.4	1.9	1.2	1.0	1.0	1.7	1.4	M	Congenital and perinatal causes	740-779/P00-P96, Q00-Q99
0.9	1.1	1.9	1.3	1.9	1.1	1.0	0.8	0.5	0.4	F	Ill-defined causes	780-799/R00-R99
44.3	59.0	73.1	90.0	102.7	100.6	81.5	94.4	194.1	1953.9	M		
8.9	11.2	14.9	18.4	24.1	22.7	24.3	44.4	148.5	1995.6	F		
47.1	63.1	84.3	100.7	117.2	130.2	158.0	197.6	259.3	363.2	M	Other medical causes	Rest of 001-799/rest of A00-R99
20.2	26.1	36.3	49.2	61.5	71.1	93.3	118.7	160.2	194.8	F		
470.8	535.3	591.5	597.9	590.2	502.4	417.9	353.3	278.4	1030.6	M	ALL NON-MEDICAL CAUSES	E800-E999/V01-Y89
85.7	98.4	116.4	131.0	140.2	117.7	117.6	114.8	132.3	212.3	F	Road traffic accidents	E810-E819, E826-E829/part of V01-V99, Y850
62.4	61.5	61.0	57.1	56.7	52.5	45.9	46.1	40.0	47.6	M		
14.6	13.9	14.7	16.6	16.7	16.3	19.5	22.6	25.1	23.0	F	Fire	E890-E899/X00-X09
12.7	17.9	20.9	21.4	21.7	22.1	19.3	16.2	17.0	48.3	M		
2.4	3.2	3.7	4.6	6.0	5.4	6.4	8.0	10.4	17.5	F		
88.6	98.3	106.3	107.0	103.6	83.5	96.7	100.3	75.7	148.3	M	Suicide	E950-E959/X60-X84
10.7	12.2	13.5	14.9	13.9	13.9	17.9	21.2	23.7	36.0	F		
70.4	71.2	72.9	68.6	61.8	47.4	33.8	27.1	23.2	129.3	M	Homicide	E960-E969/X85-X99, Y00-Y09
16.3	17.4	18.4	17.8	17.8	14.3	13.3	14.5	16.7	23.5	F		
5706	6065	5330	4095	2304	3622	2269	2045	765	588	M	POPULATION	
5885	6450	5927	4778	3013	5184	3651	4021	2395	2347	F	(1000s; UN, 2004 revision)	

<b>RUSSIAN FEDERATION: 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	Cirrhosis & other liver	Other medical	Non-medical
<b>1995</b>											
<b>0-34</b>	Sm. -	-	-	-	-	-	-	-	-	-	-
	Total 131783	3912	208	120	3584	291	4799	9508	1160	27669	84444
<b>35-69</b>	Sm. 267551	70086	41773	12458	15855	18242	12752	130514	-	35957	-
	Total 753307	125119	43721	16311	65087	21380	28131	310435	16778	77466	173998
	(36%)	(56%)	(96%)	(76%)	(24%)	(85%)	(45%)	(42%)		(46%)	
<b>70+</b>	Sm. 50264	14235	9337	1896	3002	9403	868	22852	-	2906	-
	Total 282538	36762	10266	3171	23325	12966	6703	183773	2153	25966	14215
	(18%)	(39%)	(91%)	(60%)	(13%)	(73%)	(13%)	(12%)		(11%)	
<b>Any age</b>	Sm. 317815	84321	51110	14354	18857	27645	13620	153366	-	38863	-
	Total 1167628	165793	54195	19602	91996	34637	39633	503716	20091	131101	272657
	(27%)	(51%)	(94%)	(73%)	(20%)	(80%)	(34%)	(30%)		(30%)	
<b>2000</b>											
<b>0-34</b>	Sm. -	-	-	-	-	-	-	-	-	-	-
	Total 124173	3282	147	73	3062	274	4221	9270	1088	28063	77975
<b>35-69</b>	Sm. 231306	56390	33210	10472	12708	16545	10544	114685	-	33142	-
	Total 699439	107779	35007	14238	58534	19875	24795	298979	14026	77362	156623
	(33%)	(52%)	(95%)	(74%)	(22%)	(83%)	(43%)	(38%)		(43%)	
<b>70+</b>	Sm. 71904	20685	13644	2671	4370	13714	647	33546	-	3312	-
	Total 356163	51792	14933	4376	32483	18695	4370	236913	2225	26757	15411
	(20%)	(40%)	(91%)	(61%)	(13%)	(73%)	(15%)	(14%)		(12%)	
<b>Any age</b>	Sm. 303210	77075	46854	13143	17078	30259	11191	148231	-	36454	-
	Total 1179775	162853	50087	18687	94079	38844	33386	545162	17339	132182	250009
	(26%)	(47%)	(94%)	(70%)	(18%)	(78%)	(34%)	(27%)		(28%)	

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	69583	37617	29483	6399	5802	4513	2675	4309	2918	2867	1213	611	659
2000	68290	35501	29391	5706	6065	5330	4095	2304	3622	2269	2045	765	588
<b>NUMBER OF DEATHS (Source: WHO)</b>													
<b>All causes</b>													
1995	1167628	131783	753307	63600	81122	86647	72457	145374	133360	170747	91776	64710	126052
2000	1179775	124173	699439	51922	76630	95309	99617	78134	161400	136427	165859	80826	109478
<b>Lung cancer</b>													
1995	54195	208	43721	453	1466	2713	3911	10642	10621	13915	5710	2747	1809
2000	50087	147	35007	344	1078	2766	4624	5250	11658	9287	10084	3290	1559
<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	2163.2*	361.1*	2988.5*	993.9	1398.3	1920.2	2708.3	3373.9	4570.1	5955.0	7565.4	10590.8	19116.2
2000	2121.6*	358.7*	2893.4*	910.0	1263.4	1788.1	2432.7	3391.2	4456.5	6012.1	8110.9	10572.4	18625.0
<b>All cancer</b>													
1995	306.1*	10.4*	538.0*	42.7	96.7	208.5	423.9	670.9	985.6	1337.7	1484.0	1648.9	1317.0
2000	291.2*	9.3*	495.4*	37.8	79.3	184.3	358.1	659.9	914.7	1233.8	1531.1	1647.4	1342.1
<b>Lung cancer</b>													
1995	98.0*	0.5*	190.7*	7.1	25.3	60.1	146.2	247.0	364.0	485.3	470.7	449.6	274.3
2000	88.2*	0.4*	163.9*	6.0	17.8	51.9	112.9	227.9	321.9	409.3	493.1	430.3	265.2
<b>Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)</b>													
1995	35.2*	0.3*	69.1*	3.3	13.5	35.9	68.2	97.1	125.5	140.7	139.1	125.5	108.6
2000	32.8*	0.2*	64.0*	2.8	9.7	29.3	60.6	98.6	115.6	131.7	138.5	133.2	89.5
<b>Other cancer</b>													
1995	172.9*	9.5*	278.2*	32.4	57.9	112.5	209.6	326.9	496.1	711.7	874.2	1073.8	934.0
2000	170.1*	8.6*	267.4*	29.0	51.8	103.1	184.6	333.5	477.2	692.8	899.5	1083.8	987.4
<b>Chronic obstructive pulmonary disease (COPD)</b>													
1995	71.0*	0.8*	96.2*	4.3	8.9	18.8	52.2	94.2	196.2	298.4	414.8	552.0	691.7
2000	74.8*	0.8*	97.8*	4.3	8.3	19.6	41.0	94.3	184.4	333.1	476.9	606.0	733.1
<b>Other respiratory disease</b>													
1995	71.2*	14.6*	109.3*	35.7	60.6	85.7	126.6	132.5	156.6	167.3	195.0	247.8	428.1
2000	56.1*	14.0*	93.9*	37.9	57.5	86.2	110.3	123.5	125.3	116.7	106.6	109.0	230.9
<b>Vascular disease</b>													
1995	1031.5*	24.6*	1309.6*	193.3	360.2	617.7	999.9	1443.0	2271.0	3281.9	4657.3	7039.9	12778.4
2000	1060.3*	26.1*	1338.7*	177.6	337.7	594.2	959.5	1510.0	2305.4	3486.6	5174.4	7317.3	12786.8
<b>Liver cirrhosis and other liver disease</b>													
1995	33.6*	3.0*	64.3*	22.5	36.4	56.7	71.4	81.4	90.9	90.5	91.6	81.3	82.7
2000	27.9*	3.1*	54.1*	20.8	32.1	44.9	58.0	70.3	76.9	75.9	70.7	61.1	53.1
<b>Other medical causes</b>													
1995	239.5*	83.8*	284.7*	150.3	215.9	263.4	318.6	331.7	344.8	368.3	422.6	706.5	2505.6
2000	238.7*	92.5*	284.0*	160.8	213.1	267.6	308.0	343.0	347.4	348.2	397.8	553.3	2448.5
<b>All non-medical causes</b>													
1995	410.2*	223.9*	586.5*	545.0	619.5	669.4	715.7	620.3	525.0	410.9	300.0	314.2	1312.7
2000	372.6*	212.9*	529.4*	470.8	535.3	591.5	597.9	590.2	502.4	417.9	353.3	278.4	1030.6

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

## 1995, 2000: RUSSIAN FEDERATION

## 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	Cirrhosis & other liver	Other medical	Non-medical
<b>1995</b>												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	43662	3637	96	47	3494	193	2800	2696	466	15891	17979
35-69	Sm.	15832	2966	2243	289	434	1899	288	8931	-	1748	-
	Total	347268	74731	5174	1728	67829	6080	6032	169610	9670	36168	44977
		(5%)	(4%)	(43%)	(17%)	(1%)	(31%)	(5%)	(5%)		(5%)	
70+	Sm.	17521	2616	1900	384	332	4003	143	9509	-	1250	-
	Total	645253	51490	4119	2159	45212	12622	6783	487489	3091	70884	12894
		(3%)	(5%)	(46%)	(18%)	(1%)	(32%)	(2%)	(2%)		(2%)	
Any age	Sm.	33353	5582	4143	673	766	5902	431	18440	-	2998	-
	Total	1036183	129858	9389	3934	116535	18895	15615	659795	13227	122943	75850
		(3%)	(4%)	(44%)	(17%)	(1%)	(31%)	(3%)	(3%)		(2%)	
<b>2000</b>												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	39282	3123	81	43	2999	131	2221	2646	493	13899	16769
35-69	Sm.	9062	1708	1293	161	254	1064	169	5141	-	980	-
	Total	311351	68517	4011	1471	63035	4802	5574	153562	8376	31351	39169
		(3%)	(2%)	(32%)	(11%)	(0%)	(22%)	(3%)	(3%)		(3%)	
70+	Sm.	20126	2994	2201	384	409	4382	96	11292	-	1362	-
	Total	694924	60832	4693	2066	54073	13108	4075	530003	3027	71110	12769
		(3%)	(5%)	(47%)	(19%)	(1%)	(33%)	(2%)	(2%)		(2%)	
Any age	Sm.	29188	4702	3494	545	663	5446	265	16433	-	2342	-
	Total	1045557	132472	8785	3580	120107	18041	11870	686211	11896	116360	68707
		(3%)	(4%)	(40%)	(15%)	(1%)	(30%)	(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+/ NK
<b>POPULATION (1000s; UN, 2004 revision)</b>													
1995	78607	36229	34752	6467	6031	4859	3141	5427	4055	4773	3157	1846	2622
2000	78270	34619	34888	5885	6450	5927	4778	3013	5184	3651	4021	2395	2347
<b>NUMBER OF DEATHS (Source: WHO)</b>													
<b>All causes</b>													
1995	1036183	43662	347268	16287	23045	27866	26466	61680	69221	122703	128563	124193	392497
2000	1045557	39282	311351	13612	21548	30009	35994	34561	81426	94201	167057	162692	365175
<b>Lung cancer</b>													
1995	9389	96	5174	100	205	337	346	936	1215	2035	1739	1135	1245
2000	8785	81	4011	90	180	361	455	489	1173	1263	2093	1563	1037
<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	1023.5*	130.7*	1066.4*	251.9	382.1	573.5	842.7	1136.5	1706.9	2570.9	4073.0	6727.0	14967.1
2000	1014.4*	125.0*	1017.6*	231.3	334.1	506.3	753.4	1147.0	1570.6	2580.1	4154.6	6792.4	15559.2
<b>All cancer</b>													
1995	139.8*	9.9*	230.4*	46.4	78.3	132.6	199.0	273.7	371.5	511.0	647.4	734.4	667.2
2000	137.5*	9.1*	222.4*	41.4	73.0	123.7	190.5	277.3	360.1	490.8	650.5	789.8	671.5
<b>Lung cancer</b>													
1995	9.8*	0.3*	16.1*	1.5	3.4	6.9	11.0	17.2	30.0	42.6	55.1	61.5	47.5
2000	8.7*	0.2*	13.3*	1.5	2.8	6.1	9.5	16.2	22.6	34.6	52.1	65.3	44.2
<b>Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)</b>													
1995	4.0*	0.1*	5.4*	0.7	1.0	2.2	4.2	5.3	8.9	15.3	21.4	28.5	36.5
2000	3.5*	0.1*	4.9*	0.6	0.9	2.8	4.1	5.5	6.5	13.9	18.1	25.4	31.0
<b>Other cancer</b>													
1995	126.0*	9.5*	208.9*	44.1	73.9	123.5	183.9	251.1	332.7	453.1	570.9	644.4	583.2
2000	125.2*	8.7*	204.1*	39.3	69.3	114.8	176.9	255.5	330.9	442.2	580.3	699.1	596.3
<b>Chronic obstructive pulmonary disease (COPD)</b>													
1995	18.0*	0.5*	18.9*	1.7	3.0	6.2	11.5	17.5	34.2	58.4	94.1	151.7	261.2
2000	16.6*	0.4*	16.4*	1.2	2.4	4.9	7.9	16.2	27.3	54.9	90.9	141.2	258.7
<b>Other respiratory disease</b>													
1995	18.3*	9.4*	18.1*	6.9	12.1	15.0	16.5	19.5	23.9	33.1	52.0	78.9	140.6
2000	14.7*	8.3*	16.9*	8.8	11.4	15.9	18.8	19.9	19.7	23.6	32.6	42.5	74.4
<b>Vascular disease</b>													
1995	608.5*	7.3*	527.2*	45.9	90.3	173.8	316.0	513.5	944.6	1606.0	2853.4	5088.0	11572.9
2000	623.1*	7.6*	522.4*	42.6	81.4	155.8	287.1	532.6	875.7	1681.9	3000.7	5264.8	12068.2
<b>Liver cirrhosis and other liver disease</b>													
1995	15.5*	1.2*	29.7*	8.1	14.3	23.5	35.2	44.1	41.5	41.0	40.3	43.9	38.4
2000	13.8*	1.4*	26.5*	8.2	13.4	19.4	27.7	44.1	37.1	35.5	35.5	38.9	28.4
<b>Other medical causes</b>													
1995	129.7*	52.2*	109.5*	43.8	61.2	79.0	100.7	123.2	159.7	198.6	267.6	479.2	2043.6
2000	125.3*	50.7*	97.7*	43.5	54.0	70.2	90.3	116.8	133.1	175.8	229.6	382.9	2245.8
<b>All non-medical causes</b>													
1995	93.7*	50.1*	132.6*	98.9	122.9	143.4	163.7	144.9	131.6	122.7	118.2	150.9	243.1
2000	83.3*	47.6*	115.3*	85.7	98.4	116.4	131.0	140.2	117.7	117.6	114.8	132.3	212.3

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

<b>RUSSIAN FEDERATION: 2000</b>
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**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	– / 124	– / 39	–
35–69	231 / 699	9.1 / 311	19 years
70+	72 / 356	20 / 695	8 years
<b>All ages</b>	<b>303 / 1180</b>	<b>29 / 1046</b>	<b>16 years</b>

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

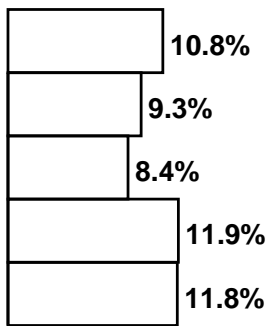
Cause	Male (by age)				Female (by age)			
	0–34	35–69	70+	All	0–34	35–69	70+	All
Lung Cancer	–/0.1	33/35	14/15	47/50	–/0.1	1.3/4.0	2.2/4.7	3.5/8.8
All Cancer	–/3.3	56/108 (52%)	21/52 (40%)	77/163	–/3.1	1.7/69 ( 2%)	3.0/61 ( 5%)	4.7/132
Vascular	–/9.3	115/299	34/237	148/545	–/2.6	5.1/154	11/530	16/686
Respiratory	–/4.5	27/45	14/23	41/72	–/2.4	1.2/10	4.5/17	5.7/30
All Other	–/107	33/248	3.3/44	36/400	–/31	1.0/79	1.4/87	2.3/197
<b>All Causes</b>	<b>–/124</b>	<b>231/699 (33%)</b>	<b>72/356 (20%)</b>	<b>303/1180</b>	<b>–/39</b>	<b>9.1/311 ( 3%)</b>	<b>20/695 ( 3%)</b>	<b>29/1046</b>

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

Cause	Male	Female	Male + Female
All Cancer	77 / 163 (47%)	4.7 / 132 ( 4%)	82 / 295 (28%)
All Causes	303 / 1180 (26%)	29 / 1046 ( 3%)	332 / 2225 (15%)

1980-2000: RUSSIAN FEDERATION

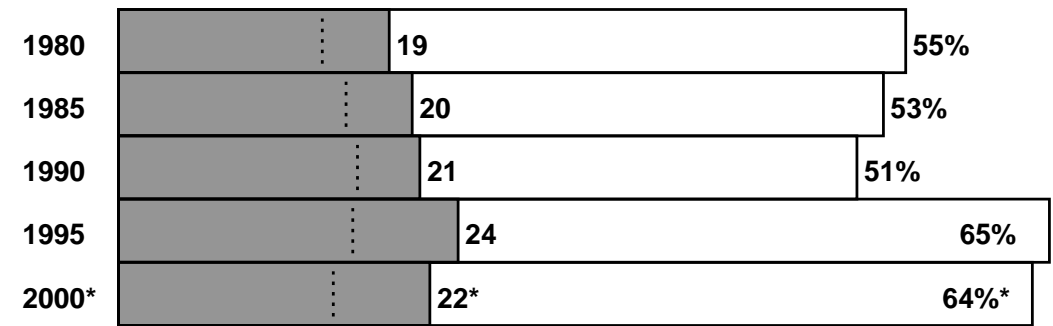
Population risk of dying at ages 0–34



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

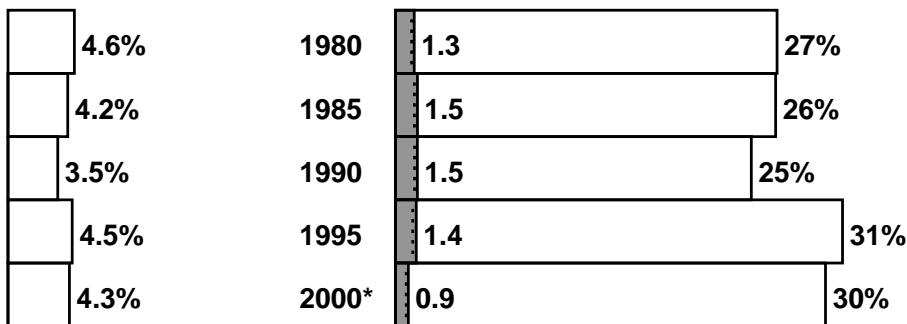
\*eg, at year 2000 male death rates, out of 100 men aged 35, 64 would die before age 70 (with 22 of these deaths attributed to smoking)

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>RUSSIAN FEDERATION: 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	-/129	141/413 <b>(34%)</b>	33/217 <b>(15%)</b>	174/760	-/51	12/248 <b>( 5%)</b>	9.0/467 <b>( 2%)</b>	21/766
1985	-/116	162/411 <b>(39%)</b>	43/250 <b>(17%)</b>	206/777	-/49	14/240 <b>( 6%)</b>	13/559 <b>( 2%)</b>	27/848
1990	-/102	187/460 <b>(41%)</b>	46/241 <b>(19%)</b>	233/802	-/40	15/251 <b>( 6%)</b>	18/563 <b>( 3%)</b>	33/854
1995	-/132	268/753 <b>(36%)</b>	50/283 <b>(18%)</b>	318/1168	-/44	16/347 <b>( 5%)</b>	18/645 <b>( 3%)</b>	33/1036
2000	-/124	231/699 <b>(33%)</b>	72/356 <b>(20%)</b>	303/1180	-/39	9.1/311 <b>( 3%)</b>	20/695 <b>( 3%)</b>	29/1046

**20-year total\* (M=millions), mid-1980 to mid-2000: 5.8/ 38M**

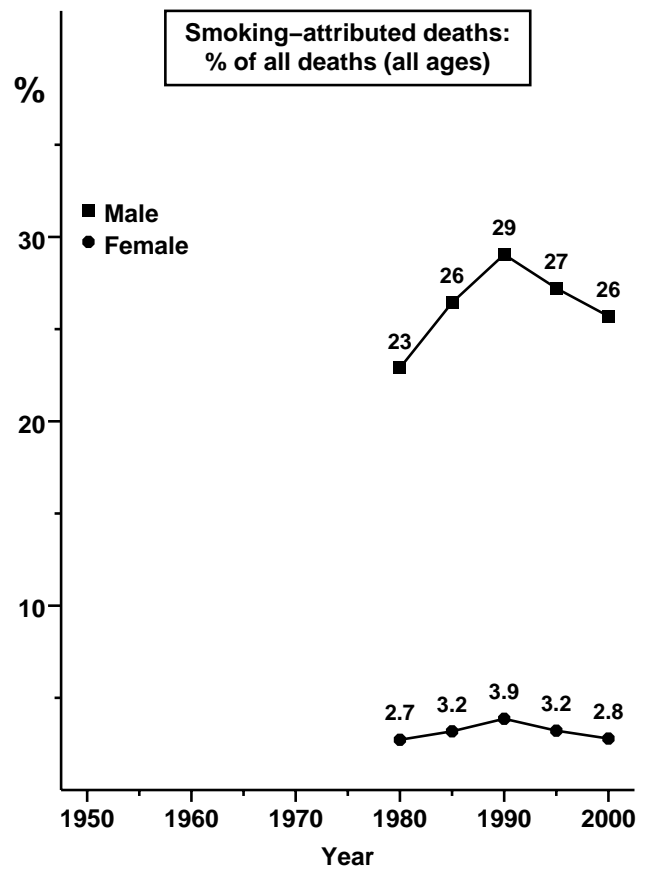
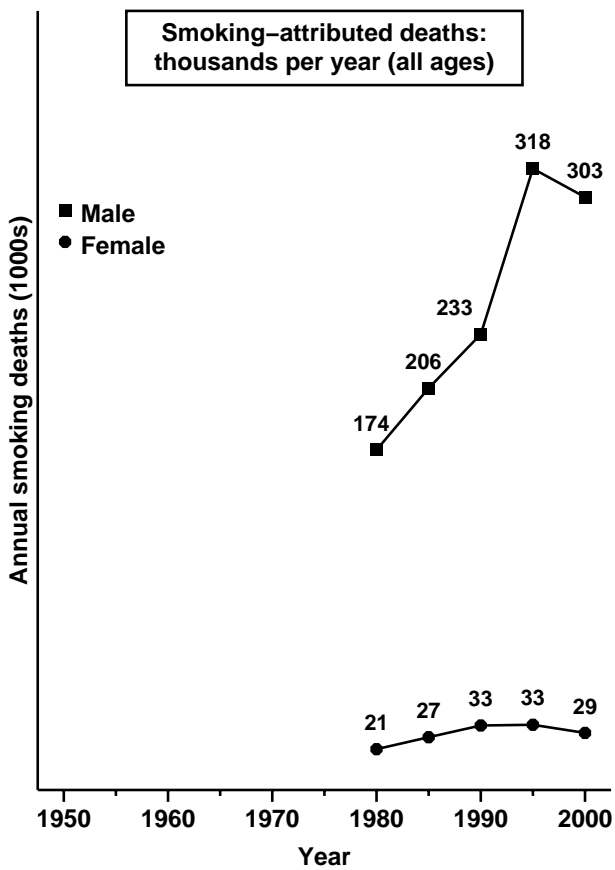
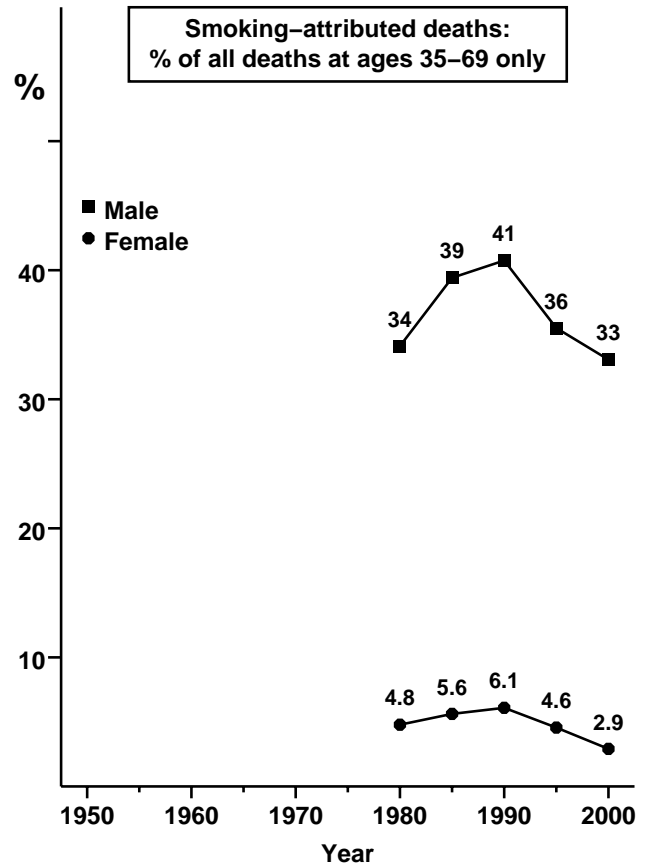
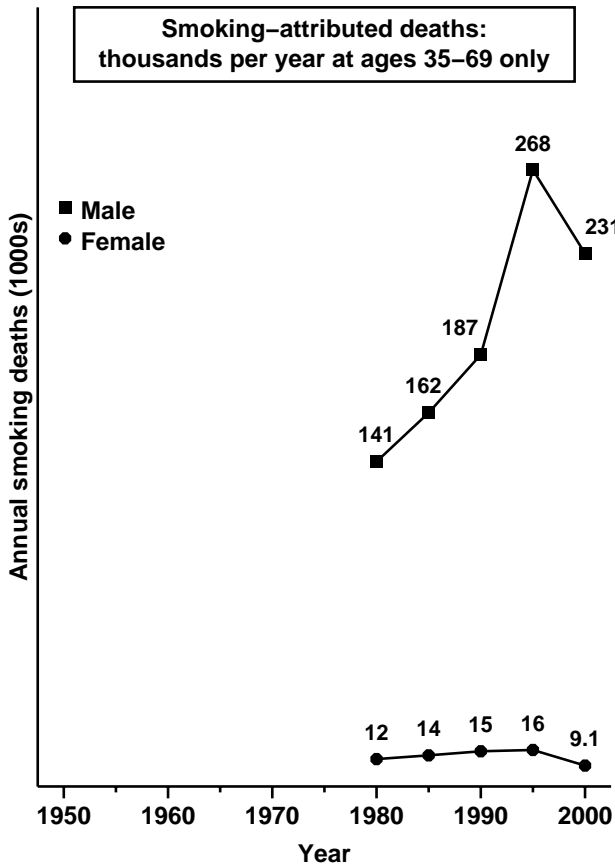
**1980-2000 by age & sex:**

-/2.5M	4.3/12M	0.9/5.3M	5.2/19M	-/0.9M	0.3/5.9M	0.3/12M	0.6/19M
	<b>(37%)</b>	<b>(18%)</b>			<b>( 5%)</b>	<b>( 3%)</b>	

\*Estimated as 10 times the sum of the annual numbers for 1985 & 1995

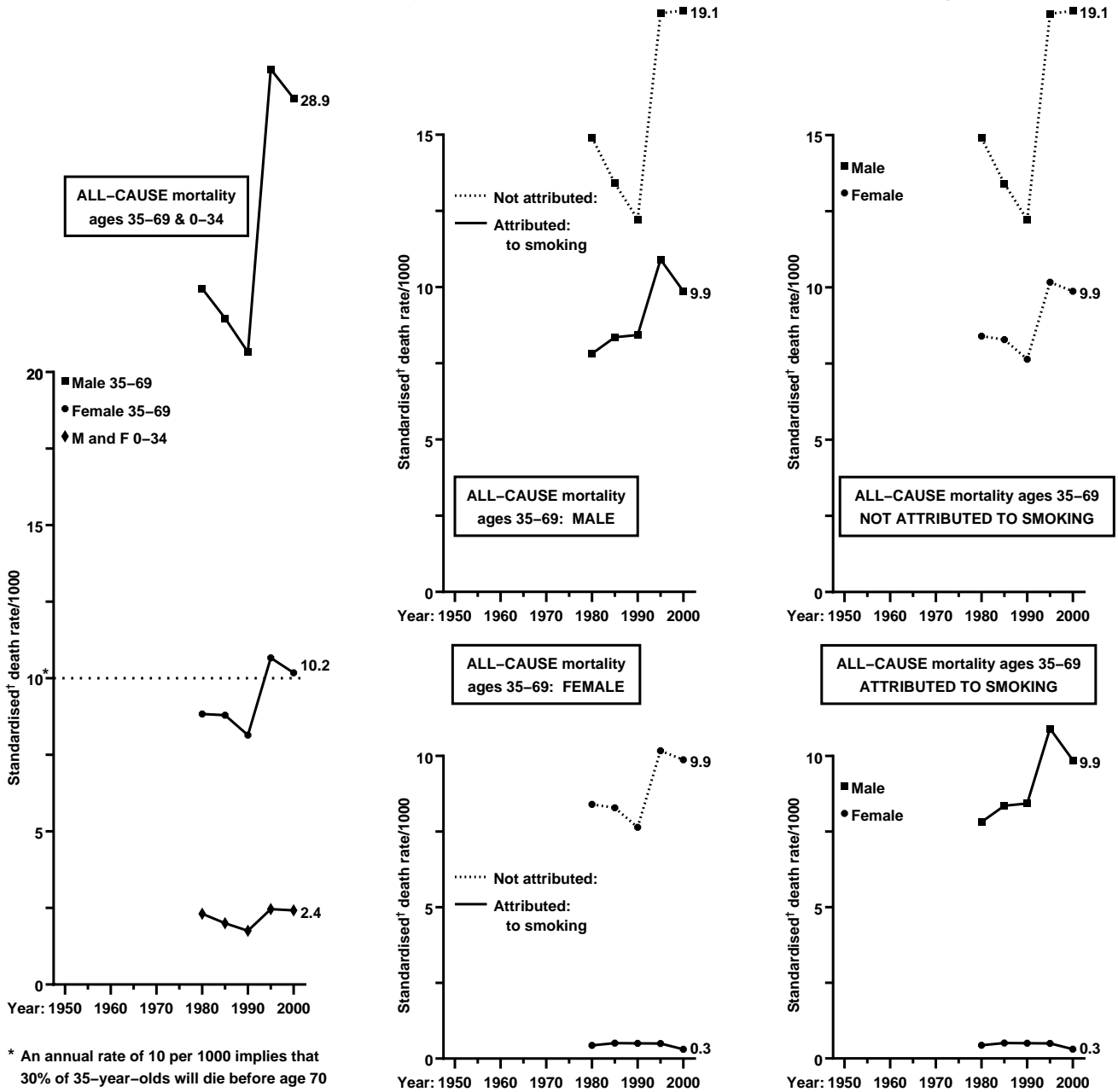


1980-2000: RUSSIAN FEDERATION



**RUSSIAN FEDERATION: 1980-2000**

**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

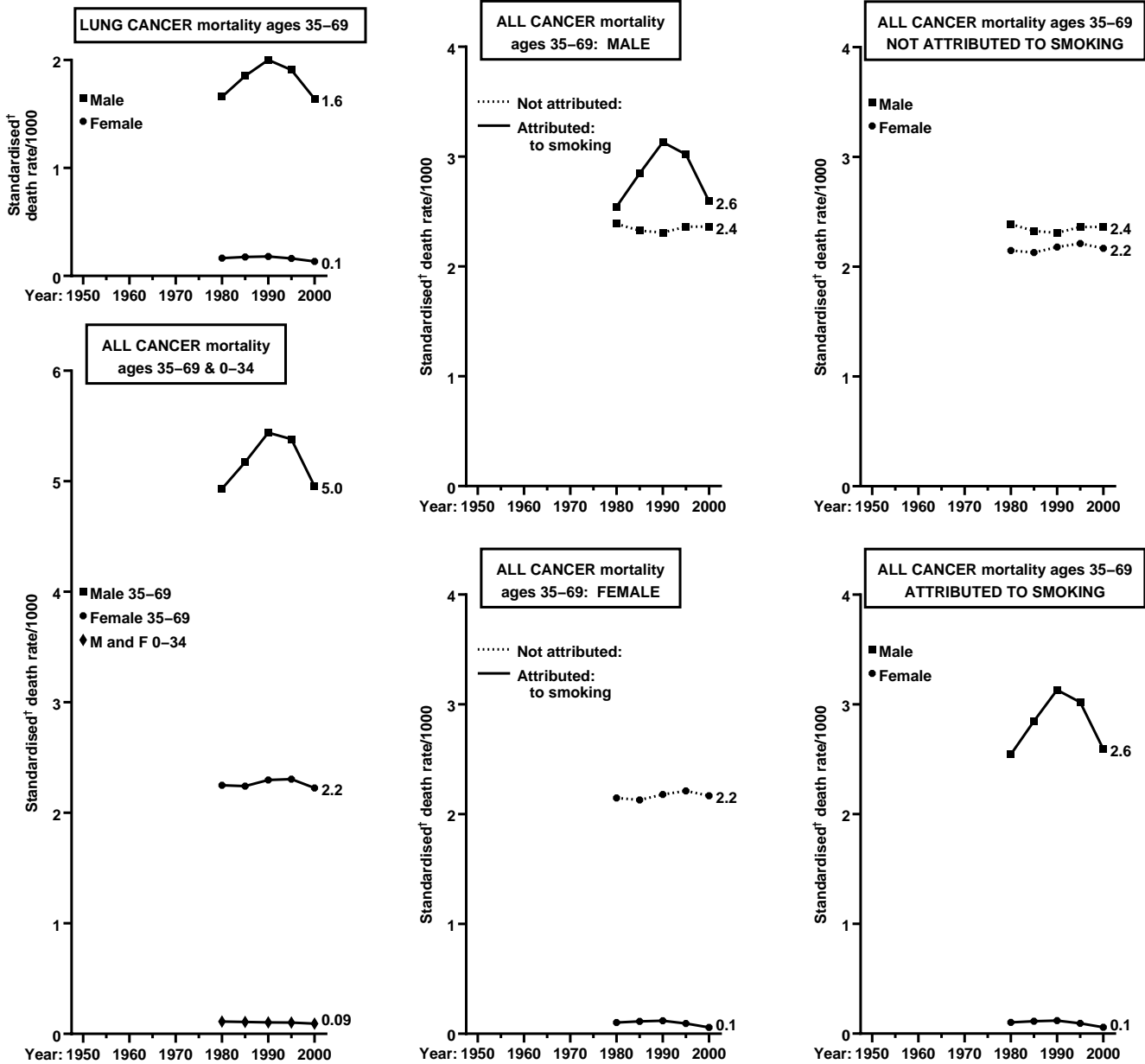
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

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	-	3.26	7.81	14.9	14.5	74.7	-	1.35	0.43	8.40	1.17	50.1
1985	-	2.78	8.35	13.4	16.7	73.1	-	1.22	0.51	8.28	1.53	51.3
1990	-	2.50	8.43	12.2	18.4	65.0	-	1.01	0.50	7.64	2.03	47.4
1995	-	3.61	10.9	19.0	18.7	72.1	-	1.31	0.50	10.2	1.85	52.2
2000	-	3.59	9.86	19.1	19.6	73.8	-	1.25	0.30	9.87	1.84	52.9

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

1980-2000: RUSSIAN FEDERATION

ALL CANCER mortality rates attributed and not attributed to smoking



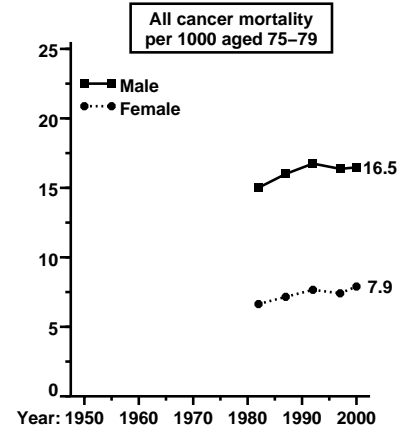
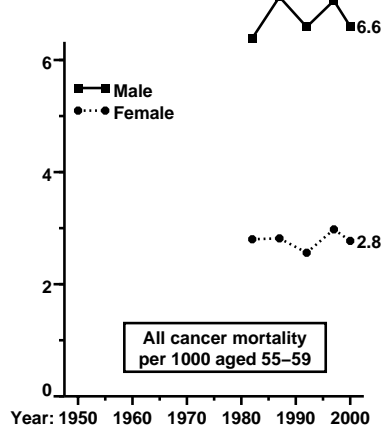
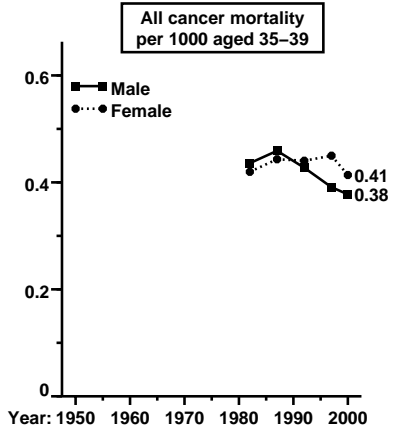
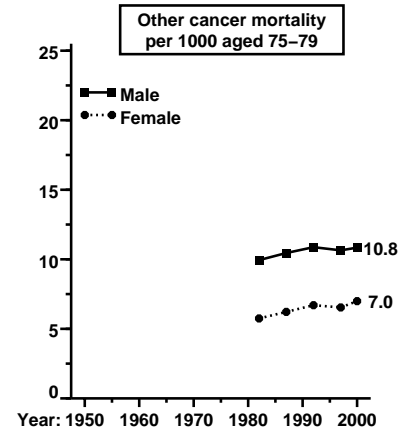
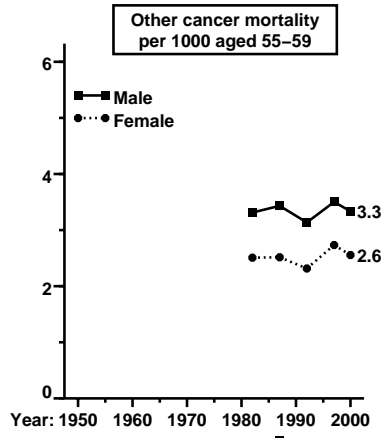
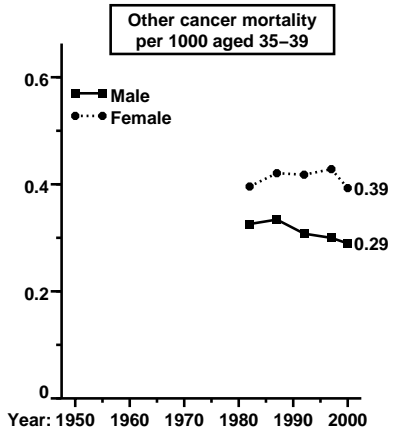
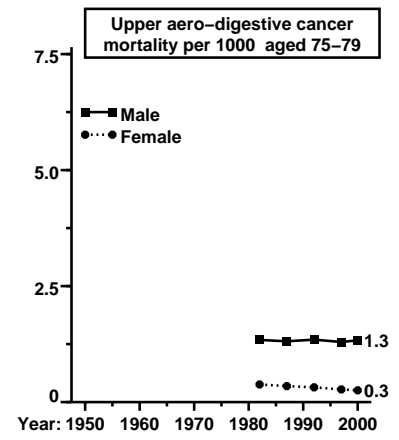
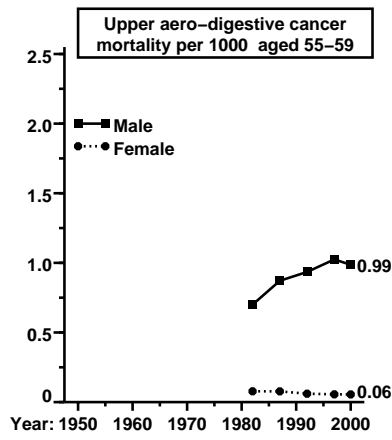
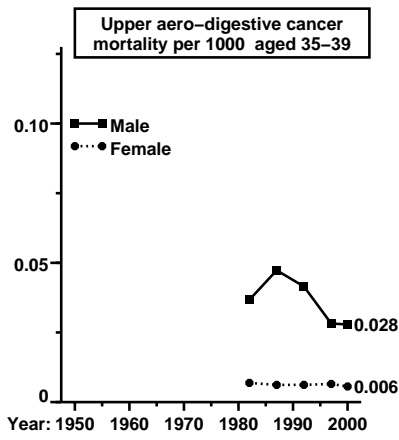
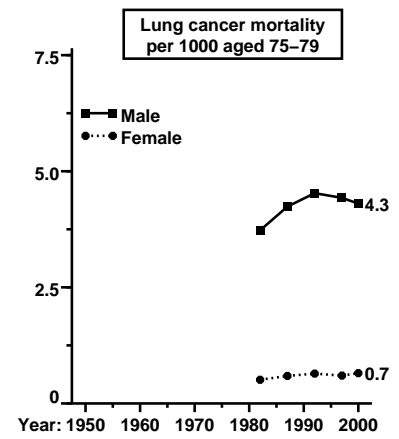
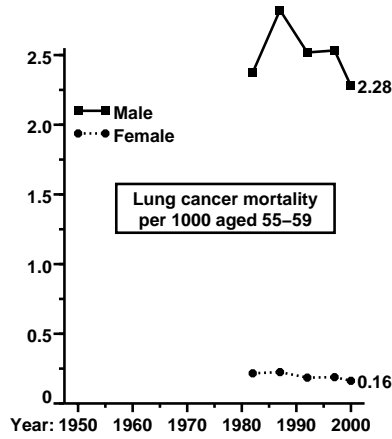
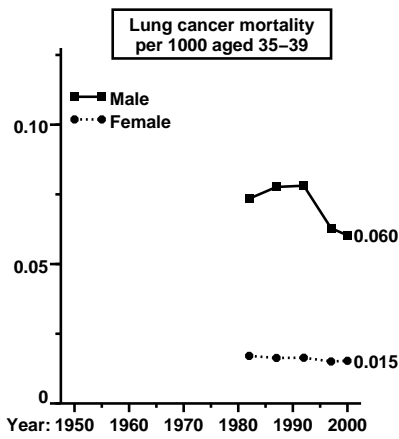
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

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	-	0.12	2.54	2.39	4.97	9.10	-	0.10	0.10	2.15	0.24	5.97	-	0.10	0.11	2.13
1985	-	0.11	2.85	2.32	5.62	9.37	-	0.10	0.11	2.13	0.30	6.22	-	0.10	0.12	2.18
1990	-	0.11	3.13	2.31	6.63	9.63	-	0.10	0.12	2.18	0.43	6.69	-	0.10	0.09	2.21
1995	-	0.10	3.02	2.36	6.22	9.44	-	0.10	0.09	2.21	0.36	6.55	-	0.10	0.06	2.17
2000	-	0.09	2.59	2.36	6.28	9.61	-	0.09	0.06	2.17	0.36	6.84	-	0.09	0.06	2.17

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

**RUSSIAN FEDERATION: 1980-2000**

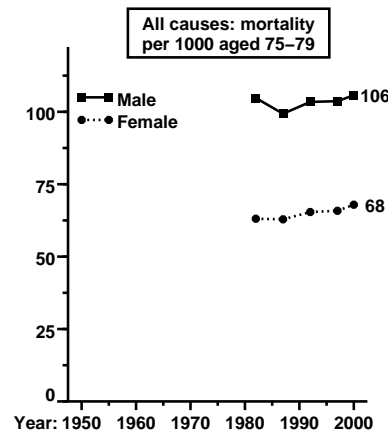
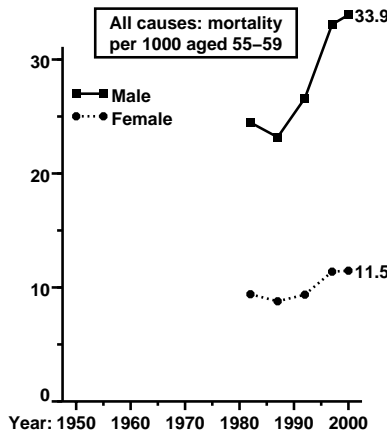
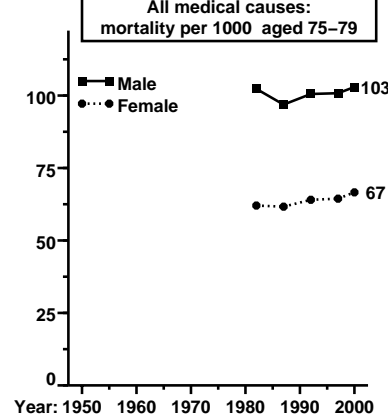
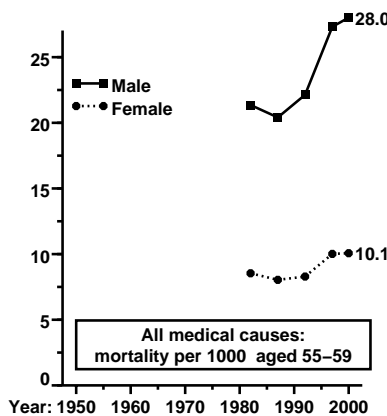
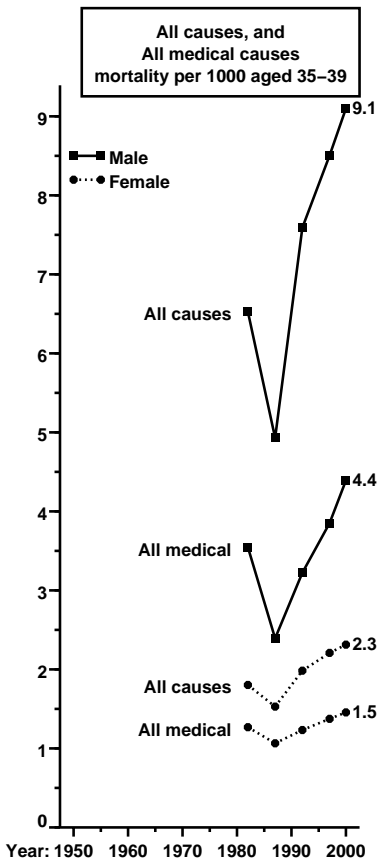
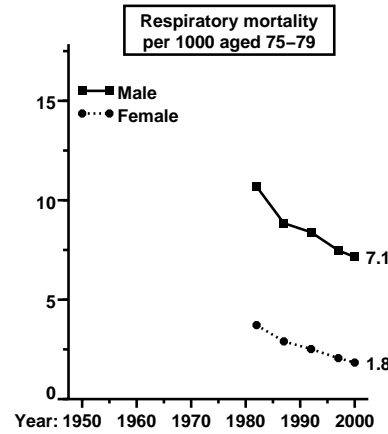
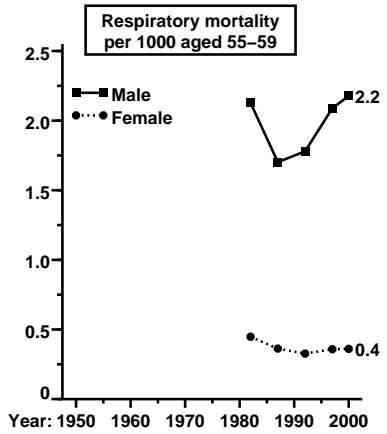
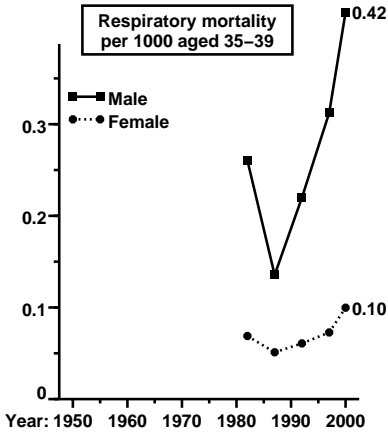
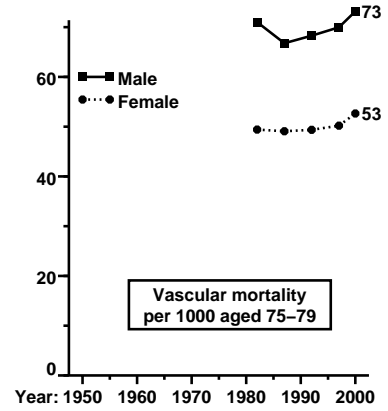
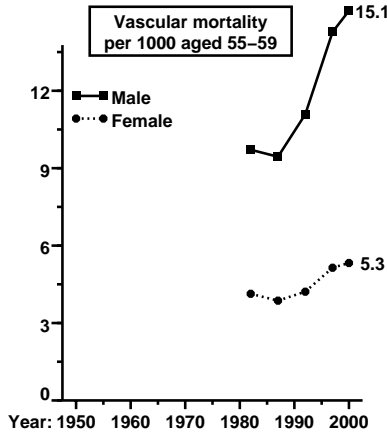
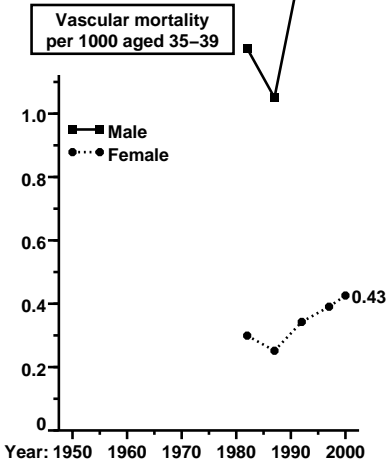
**Mortality\* trends at selected ages: 35-39, 55-59 & 75-79**



\* Annual mortality per 1000: averages of years available in 1980-84,.....,1995-99; then year 2000 separately

1980-2000: RUSSIAN FEDERATION

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



\* Annual mortality per 1000: averages of years available in 1980-84,.....,1995-99; then year 2000 separately