

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

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ITALY

Raw data (pages 248–49, 250–51)

Analyses (pages 252–53, 254–55, 256–57)

Appendix (pages 258–59)

ITALY: 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
	M	F													
ALL CAUSES	280714	9096	80788	765.1	69.8	706.8	111.8	14.1	17.3	59.0	92.3	96.1	97.9		
	279407	4111	42847	465.4	35.6	341.3	101.9	10.5	12.9	23.2	28.4	31.8	40.2		
Tuberculosis	302	5	95	0.8	0.0	0.8	-	-	-	0.1	0.1	0.0	0.0		
	192	6	37	0.3	0.0	0.3	-	-	-	0.1	-	0.1	0.1		
HIV	775	134	632	2.5	0.8	4.4	0.1	0.1	0.1	-	0.1	0.8	4.6		
	200	62	137	0.7	0.4	0.9	0.3	0.1	-	0.1	0.1	0.6	1.7		
Other infective and parasitic	1498	54	650	4.2	0.4	5.6	0.8	0.1	0.1	0.2	0.4	0.5	0.7		
	1617	47	377	3.0	0.4	3.0	1.2	0.3	0.1	0.3	0.1	0.3	0.6		
ALL CANCER	88288	891	34763	241.2	6.7	308.4	2.6	5.3	4.3	6.8	7.9	8.4	11.7		
	65143	766	21953	130.2	5.8	174.2	3.0	3.9	3.2	4.5	4.7	8.0	13.1		
Mouth and pharynx cancer	2117	18	1299	6.3	0.1	11.2	-	0.1	0.1	-	0.3	0.3	0.1		
	749	13	288	1.6	0.1	2.3	0.1	-	0.1	0.1	-	0.1	0.3		
Oesophagus cancer	1564	3	790	4.4	0.0	7.0	-	-	-	-	-	0.0	0.1		
	456	2	142	0.9	0.0	1.1	-	-	-	-	-	-	0.1		
Stomach cancer	6492	34	2368	17.6	0.2	21.0	-	-	-	0.1	0.1	0.6	0.7		
	4786	24	1149	8.6	0.2	9.1	-	-	-	0.1	0.2	0.3	0.5		
Colorectal cancer	8807	30	3202	23.8	0.2	28.5	-	-	-	0.1	0.1	0.3	0.3	0.7	
	7839	25	2119	14.5	0.2	16.9	-	-	0.1	0.1	0.2	0.4	0.5		
Liver cancer	3879	10	1821	10.6	0.1	16.3	0.1	-	-	0.1	-	0.1	0.2		
	1611	5	443	3.0	0.0	3.6	0.1	-	-	0.1	-	0.0	0.1		
Pancreas cancer	3934	8	1804	10.9	0.0	15.9	-	-	-	-	-	0.1	0.2		
	4178	7	1197	7.8	0.0	9.6	-	-	-	-	0.1	0.1	0.2		
Larynx cancer	1737	1	785	4.8	0.0	6.9	-	-	-	-	-	-	0.0		
	156	1	50	0.3	0.0	0.4	-	-	-	-	-	-	0.0		
Lung cancer	25503	29	11243	69.7	0.2	100.6	-	-	-	0.1	0.1	0.2	0.9		
	6031	19	2269	12.4	0.1	18.1	-	0.1	0.1	0.1	0.1	0.2	0.4		
Malignant melanoma	780	42	422	2.3	0.3	3.5	-	-	-	0.3	0.3	0.5	0.9		
	659	30	293	1.5	0.2	2.3	0.1	-	-	-	0.3	0.5	0.6		
Female breast cancer	11354	117	5423	25.6	0.7	42.5	-	-	-	-	0.1	1.2	3.8		
Cervix cancer	359	9	213	0.9	0.1	1.6	-	-	-	-	-	0.1	0.3		
Other uterine cancer	2361	6	906	4.8	0.0	7.2	-	-	-	-	0.1	0.1	0.1		
Ovarian cancer	2877	18	1367	6.4	0.1	10.9	-	-	-	0.1	0.1	0.0	0.6		
Prostate cancer	6941	5	1017	17.8	0.0	9.4	-	0.1	-	0.1	-	-	0.0		
Bladder cancer	3977	1	1087	10.4	0.0	9.9	-	-	-	-	-	0.0	-		
	1025	2	156	1.7	0.0	1.3	-	-	-	0.1	-	-	0.0		
Other and ill-defined cancer sites	15757	374	6267	43.5	2.9	55.1	1.7	2.9	1.9	2.6	3.6	3.4	4.2		
Hodgkin's disease	14497	245	4044	27.6	2.0	32.3	1.6	2.5	1.7	2.2	1.6	2.2	2.4		
	200	25	97	0.6	0.2	0.8	-	0.1	-	0.3	0.2	0.4	0.3		
	167	25	72	0.4	0.2	0.5	-	0.1	0.2	0.4	0.4	0.4	0.2		
Myeloma and non-Hodgkin lymphomas	3721	105	1581	10.4	0.8	13.8	0.3	0.3	0.5	0.6	1.1	1.0	1.6		
	3679	77	1119	7.2	0.6	8.9	0.2	0.1	0.3	0.4	0.6	1.0	1.2		
Leukaemia	2879	206	980	8.1	1.7	8.5	0.5	1.9	1.9	2.6	1.9	1.2	1.8		
	2359	141	703	4.9	1.1	5.5	0.9	1.2	0.9	1.2	1.0	1.2	1.7		
Diabetes	6998	26	1911	18.5	0.2	17.2	0.1	-	0.1	0.2	0.1	0.2	0.6		
	10650	14	1345	16.8	0.1	11.0	0.2	0.1	-	0.1	-	0.1	0.2		
ALL VASCULAR DISEASE	107433	660	23237	284.8	4.7	205.7	3.4	1.2	1.9	3.3	4.0	7.5	11.6		
	132997	316	9670	195.6	2.4	78.1	2.7	0.8	1.7	1.3	1.9	3.9	4.6		
Rheumatic heart disease and fever	501	12	176	1.4	0.1	1.6	-	-	0.1	0.1	0.2	0.2	0.1		
Hypertensive disease	1180	11	261	2.1	0.1	2.1	-	-	0.1	0.1	0.1	0.2	0.1		
	7391	7	1292	19.3	0.0	11.6	-	-	-	-	-	0.1	0.2		
	13650	5	824	19.7	0.0	6.7	0.1	-	0.1	-	-	-	0.1		
Ischaemic heart disease	38498	90	10840	103.0	0.6	95.8	-	-	0.1	0.3	0.3	1.0	2.4		
	34988	10	2943	52.2	0.1	23.9	-	0.1	-	-	0.1	0.1	0.2		
Pulmonary embolism and other venous disease	927	10	249	2.5	0.1	2.2	-	-	-	-	0.1	0.1	0.3		
Cerebrovascular disease	1609	16	250	2.6	0.1	2.0	0.1	-	-	0.1	0.1	0.3	0.3		
	27383	95	4152	71.4	0.7	37.2	0.4	0.5	0.3	0.3	0.4	1.2	1.6		
	39962	88	2636	58.3	0.6	21.2	0.1	0.1	0.5	0.1	0.6	1.4	1.5		
Other vascular disease	32733	446	6528	87.1	3.2	57.4	2.9	0.7	1.3	2.6	3.0	5.0	7.0		
	41608	186	2756	60.7	1.5	22.1	2.5	0.7	1.1	1.0	1.0	1.9	2.4		
Chronic obstructive pulmonary disease	12361	34	1542	31.7	0.3	14.1	0.2	0.1	0.2	0.3	0.3	0.4	0.4		
Other respiratory disease	6637	25	534	9.9	0.2	4.3	0.2	-	0.1	0.1	0.1	0.3	0.5		
	9562	139	1480	25.2	1.1	13.1	2.1	0.2	0.4	0.9	1.0	1.6	1.4		
	9222	74	765	13.9	0.7	6.1	1.9	0.4	0.2	0.4	0.4	0.5	0.6		
Peptic ulcer	916	3	220	2.4	0.0	1.9	0.1	-	-	-	0.1	-	0.0		
	889	2	84	1.3	0.0	0.7	-	-	-	-	-	-	0.1		
Liver cirrhosis	6695	61	3729	19.2	0.4	32.0	-	0.1	-	-	-	0.4	2.2		
	4602	31	1608	9.2	0.2	12.9	-	-	0.1	0.1	0.1	0.4	0.8		
Renal disease	2510	18	460	6.6	0.1	4.1	0.2	-	-	-	0.1	0.2	0.3		
	2706	21	375	4.3	0.2	3.0	-	0.1	0.1	0.1	0.3	0.4	0.2		
Pregnancy, birth and congenital and perinatal causes	16	7	9	0.0	0.0	0.1	-	-	-	-	-	0.1	0.2		
Ill-defined causes	1471	1261	131	7.8	13.0	1.0	85.5	0.8	0.7	1.0	0.9	0.9	0.8		
	1267	1057	114	6.9	11.6	0.9	76.4	0.4	1.3	1.0	0.6	0.5	0.6		
	3370	511	1009	9.9	3.7	8.1	4.3	0.3	0.4	2.6	4.7	7.0	6.6		
	3849	141	314	6.1	1.2	2.4	3.5	0.1	0.4	0.4	1.2	1.3	1.4		
Other medical causes	22747	988	5056	61.3	7.3	43.6	8.3	2.4	2.5	5.1	7.9	11.6	13.4		
	29108	473	3710	47.2	3.9	29.6	7.5	2.1	2.7	2.3	2.6	4.3	5.9		
ALL NON-MEDICAL CAUSES	15788	4311	5873	48.7	31.1	46.6	4.0	3.6	6.7	38.7	64.8	56.7	43.3		
	10312	1069	1815	19.9	8.5	13.9	4.9	2.2	2.8	12.6	16.2	10.9	9.6		
Road traffic accidents	5589	2538	2084	18.4	18.5	16.3	1.7	1.5	3.5	27.4	41.3	32.5	21.8		
	1752	642	629	5.2	5.1	4.8	2.0	1.3	1.5	8.9	11.8	5.9	4.6		
Fire	189	28	74	0.6	0.2	0.6	0.1	-	-	0.1	0.5	0.4	0.3		
	140	12	43	0.3	0.1	0.3	0.3	0.1	-	-	0.1	0.0	0.2		
Suicide	3062	698	1561	9.5	4.8	12.3	-	-	0.6	3.7	9.3	9.8	10.0		
	1046	177	560	2.9	1.3	4.2	-	-	0.1	1.7	1.5	2.5	3.0		
Homicide	450	196	223	1.5	1.4	1.7	0.1	0.3	-	1.1	2.6	3.0	2.4		
	149	50	72	0.5	0.4	0.5	0.2	0.1	0.1	0.2	0.8	0.7	0.5		
POPULATION: (1000															

2000: ITALY

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	M	ALL CAUSES	001-999/A00-Y89
129.7	171.2	269.5	441.7	742.1	1187.5	2005.7	3322.2	5442.8	13312.7	M	ALL CAUSES	001-999/A00-Y89
60.0	97.0	147.3	236.9	362.9	555.9	929.2	1630.6	3029.2	10643.1	F	Tuberculosis	010-018, 137/ A15-A19, B90
0.3	0.3	0.1	0.5	0.6	1.7	2.3	3.8	8.9	9.9	M	HIV	279.5, 279.6/B20-B24
0.0	0.1	0.3	0.1	0.4	0.2	0.9	1.5	3.3	5.2	F		
11.2	8.9	4.4	2.4	2.1	1.0	0.9	0.7	-	-	M	Other infective and parasitic	Rest of 001-139/rest of A00-B99 excl A33,A34
2.8	2.1	0.7	0.4	-	0.1	0.4	0.1	-	-	F		
2.0	2.7	2.4	3.9	5.8	7.5	14.7	19.0	26.8	42.1	M		
0.7	0.6	0.8	1.9	3.1	5.4	8.5	14.6	23.1	41.6	F		
21.1	43.9	90.4	183.8	350.2	565.0	904.2	1334.7	1826.6	2608.8	M	ALL CANCER	140-208/C00-C97
25.6	53.0	84.8	140.3	207.2	296.3	412.6	593.2	835.3	1391.8	F	Mouth and pharynx cancer	140-149/C00-C14
0.9	2.7	6.5	10.6	16.4	17.0	24.1	24.4	25.1	36.2	M	Oesophagus cancer	150/C15
0.5	1.2	1.1	2.7	2.3	3.4	4.7	5.6	7.9	16.1	F		
0.2	0.9	2.2	5.4	8.3	13.6	18.1	24.5	26.8	30.2	M		
0.0	0.2	0.2	0.6	1.2	2.5	3.3	3.5	5.5	11.7	F		
1.3	3.6	6.3	11.6	22.8	39.1	62.4	97.4	137.0	218.8	M	Stomach cancer	151/C16
1.9	2.9	3.7	6.4	8.6	15.6	24.7	41.3	63.4	134.7	F		
1.5	3.7	8.0	16.4	32.4	53.7	83.5	123.0	190.2	309.8	M	Colorectal cancer	153, 154/C18-C21
2.0	3.7	7.1	13.2	20.0	28.7	43.6	65.4	106.6	206.3	F		
0.4	1.5	3.9	8.9	16.5	32.3	50.7	65.8	82.7	65.3	M	Liver cancer	155.0/C22 excl C221
0.1	0.4	0.9	1.0	3.5	6.5	12.9	22.2	26.5	28.9	F		
0.9	2.6	4.6	9.9	21.1	29.5	43.0	58.1	75.8	95.7	M	Pancreas cancer	157/C25
0.7	1.0	2.7	5.3	11.4	19.2	27.2	42.1	62.6	93.5	F		
0.4	1.0	2.3	4.7	8.8	12.8	18.3	25.0	33.9	44.6	M	Larynx cancer	161/C32
0.0	0.1	0.2	0.7	0.5	0.4	0.9	2.0	2.1	2.8	F		
2.7	8.6	24.3	57.0	118.4	185.7	307.2	451.2	528.4	518.7	M	Lung cancer	162/C33, C34
1.1	4.7	9.1	13.2	24.1	30.3	44.4	64.2	83.8	101.8	F		
1.1	1.8	2.4	3.9	4.5	5.2	5.7	7.5	11.8	15.6	M	Malignant melanoma	172/C43
1.0	1.9	1.6	2.3	2.7	2.9	3.4	5.1	6.8	10.5	F		
7.5	18.0	27.6	43.0	55.0	71.0	75.7	93.7	114.3	178.2	F	Female breast cancer	174/C50
0.7	1.3	1.3	2.0	1.6	2.0	2.4	2.3	3.2	3.6	F	Cervix cancer	180/C53
1.2	2.2	3.4	5.6	7.7	12.3	17.9	22.2	29.7	44.5	M	Other uterine cancer	179, 182/C54, C55
0.8	2.6	6.0	10.5	15.7	17.6	22.9	27.9	33.2	38.5	F	Ovarian cancer	183/C56, C570-C574
0.2	0.2	0.5	1.7	5.6	17.9	40.0	81.7	167.6	448.7	M	Prostate cancer	185/C61
0.2	0.9	1.0	3.3	8.7	19.3	35.9	60.6	96.7	167.8	M	Bladder cancer	188/C67
-	0.2	0.3	0.6	0.9	2.5	4.4	8.8	13.2	35.3	F		
6.1	10.3	19.8	35.8	60.5	98.7	154.6	224.5	318.4	460.1	M	Other and ill-defined cancer sites	Rest of 140-199/ rest of C00-C80, C97
4.8	7.7	12.6	22.7	37.2	55.6	85.3	127.1	190.6	360.0	F	Hodgkin's disease	201/C81
0.4	0.3	0.9	0.4	1.2	0.9	1.5	2.0	3.5	2.8	M		
0.5	0.5	0.4	0.3	0.5	0.7	0.8	1.4	1.8	1.5	F		
2.7	2.9	4.4	8.9	16.4	24.7	36.5	52.1	72.6	97.6	M	Myeloma and non- Hodgkin lymphomas	200, 202-203/ C82-C90, C96
1.2	2.0	3.7	6.1	8.7	15.3	25.7	38.2	55.3	72.2	F		
2.1	2.7	3.3	5.3	8.9	14.6	22.5	36.8	56.1	97.0	M	Leukaemia	204-208/C91-C95
1.4	2.4	2.9	4.1	5.7	9.8	12.5	20.1	28.8	51.8	F		
0.6	1.8	3.7	8.9	17.9	30.0	57.4	96.5	162.2	318.1	M	Diabetes	250/E10-E14
0.3	1.3	1.3	3.9	9.1	18.1	42.9	80.7	149.6	384.4	F		
17.9	39.1	75.7	125.6	209.1	341.1	631.5	1168.5	2117.6	6605.0	M	ALL VASCULAR DISEASE	390-459/I00-I99
8.3	14.4	22.8	39.8	69.7	125.2	266.3	587.9	1330.4	6153.3	F	Rheumatic heart disease and fever	390-398/I00-I09
0.2	0.3	0.4	0.7	2.0	2.9	4.4	8.0	9.8	16.8	M	Hypertensive disease	401-405/I10-I15
0.1	0.3	0.5	1.3	2.7	3.5	6.3	10.8	20.4	29.5	F		
0.3	1.5	3.5	6.9	10.8	18.8	39.2	77.8	150.1	498.7	M		
0.3	0.6	1.4	3.6	6.3	10.8	23.9	57.6	135.9	647.5	F		
6.2	16.2	37.2	61.7	104.2	164.2	281.0	483.4	788.4	1915.2	M	Ischaemic heart disease	410-414/I20-I25
1.2	2.7	5.2	9.6	22.4	40.6	85.8	193.6	397.3	1516.3	F		
0.4	0.9	0.8	1.5	1.8	3.5	6.1	11.1	20.5	45.8	M	Pulmonary embolism	415.1, 451-453/ I26, I80-I82
0.5	0.4	0.8	1.2	1.5	3.5	6.2	10.0	21.2	57.7	F		
3.0	6.2	10.9	19.4	32.4	59.6	128.9	270.4	567.1	1938.1	M	Cerebrovascular disease	430-438/I60-I69
2.8	5.4	7.7	12.2	17.3	31.4	71.5	162.6	410.8	1871.2	F		
7.9	13.9	22.9	35.3	57.9	92.1	172.0	317.9	581.7	2190.4	M	Other vascular disease	Rest of 390-459/ rest of I00-I99
3.5	4.9	7.2	11.9	19.5	35.4	72.7	153.4	344.9	2031.0	F		
0.6	1.2	1.9	4.6	10.1	23.7	56.9	134.6	304.5	841.5	M	Chronic obstructive pulmonary disease	490-496/ J40-J47, J67
0.1	0.4	0.9	2.6	3.5	7.2	15.6	34.2	72.4	292.9	F		
2.7	3.3	4.8	6.9	11.8	18.9	43.2	93.8	188.2	671.6	M	Other respiratory disease	Rest of 460-519/ rest of J00-J98
1.3	1.9	2.5	3.9	5.5	9.3	18.3	35.0	76.9	436.7	F		
0.2	0.5	1.0	1.5	2.0	3.3	4.9	10.1	18.7	52.8	M	Peptic ulcer	531-533/K25-K27
0.0	0.1	0.2	0.5	0.3	1.1	2.4	4.3	9.7	38.8	F		
7.0	10.2	17.2	24.0	36.0	53.7	76.0	90.7	101.2	116.1	M	Liver cirrhosis	571/K70, K74
2.1	2.7	5.3	7.8	14.1	21.4	36.8	52.4	70.6	75.2	F		
0.4	0.8	1.3	2.7	3.5	6.4	13.5	28.5	55.2	156.1	M	Renal disease	580-590/N00-N19
0.3	0.4	0.8	1.7	2.9	4.8	10.4	17.2	32.1	103.0	F		
0.3	0.1	-	-	-	-	-	-	-	-	M	Pregnancy, birth Congenital and perinatal causes	630-676/A34,000-O99
0.7	0.5	1.4	1.2	1.5	1.0	0.8	2.1	3.0	3.4	F		
0.5	0.8	0.7	0.8	1.1	0.9	1.4	0.8	2.3	3.3	M	III-defined causes	740-779/A33, P00-P96, Q00-Q99
7.9	5.6	6.3	5.8	7.4	9.9	13.9	17.6	30.0	179.8	M		
1.8	1.1	1.4	1.7	2.8	3.3	5.0	9.1	16.9	194.5	F		
15.6	15.5	18.1	25.8	38.7	68.4	123.4	229.1	461.1	1282.9	M	Other medical causes	Rest of 001-799/ rest of A00-R99
6.1	8.0	13.8	18.8	29.7	46.8	83.6	161.1	328.7	1151.8	F		
41.5	36.7	40.9	44.1	45.4	55.8	62.2	92.4	138.7	424.6	M	ALL NON- MEDICAL CAUSES	E800-E999/V01-Y89
10.0	9.9	11.0	12.7	13.3	16.0	24.0	38.6	77.9	370.5	F		
17.2	14.0	14.7	15.9	15.4	18.0	19.1	23.9	36.8	45.0	M	Road traffic accidents	E810-E819, E826-E829/ part of V01-V99, Y850
3.9	4.1	4.0	4.5	4.8	4.6	7.5	9.3	11.1	11.7	F		
0.6	0.3	0.4	0.6	0.6	0.8	0.8	1.2	2.6	6.3	M	Fire	E890-E899/X00-X09
0.4	0.3	0.1	0.2	0.5	0.4	0.5	1.1	1.2	3.4	F		
10.4	10.6	11.5	12.8	11.9	14.1	15.1	20.2	24.0	44.7	M	Suicide	E950-E959/X60-X84
3.3	3.5	4.0	4.7	4.1	5.0	5.1	5.8	8.1	6.8	F		
2.4	1.8	2.6	1.7	1.2	1.2	0.8	0.8	1.1	1.5	M	Homicide	E960-E969/ X85-X99, Y00-Y09
1.1	0.5	0.5	0.3	0.3	0.4	0.5	0.4	0.9	0.6	F		
2295	2012	1870	1937	1635	1653	1447	1220	908	758	M	POPULATION	(1000s; UN, 2004 revision)
2285	2020	1897	1985	1721	1810	1691	1576	1375	1551	F		

ITALY: 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	13112	994	40	25	929	54	191	814	114	5877	5068
35-69 Sm.	32122	18479	12489	2375	3615	1532	413	8133	—	3565	—
35-69 Total	93584	38964	13431	3613	21920	1935	1449	28095	4744	11895	6502
(34%)	(47%)	(93%)	(66%)	(16%)	(79%)	(29%)	(29%)	(29%)		(30%)	
70+ Sm.	38929	17014	11222	1488	4304	7893	777	10179	—	3066	—
70+ Total	179700	46511	12270	2431	31810	10693	6465	82644	3249	24665	5473
(22%)	(37%)	(91%)	(61%)	(14%)	(74%)	(12%)	(12%)	(12%)		(12%)	
Any age Sm.	71051	35493	23711	3863	7919	9425	1190	18312	—	6631	—
Any age Total	286396	86469	25741	6069	54659	12682	8105	111553	8107	42437	17043
(25%)	(41%)	(92%)	(64%)	(14%)	(74%)	(15%)	(16%)	(16%)		(16%)	
2000											
0-34 Sm.	—	—	—	—	—	—	—	—	—	—	—
0-34 Total	9096	891	29	22	840	34	139	660	61	3000	4311
35-69 Sm.	24647	14810	10269	1737	2804	1156	365	5738	—	2578	—
35-69 Total	80788	34763	11243	2874	20646	1542	1480	23237	3729	10164	5873
(31%)	(43%)	(91%)	(60%)	(14%)	(75%)	(25%)	(25%)	(25%)		(25%)	
70+ Sm.	41622	19332	12993	1533	4806	7967	937	10058	—	3328	—
70+ Total	190830	52634	14231	2522	35881	10785	7943	83536	2905	27423	5604
(22%)	(37%)	(91%)	(61%)	(13%)	(74%)	(12%)	(12%)	(12%)		(12%)	
Any age Sm.	66269	34142	23262	3270	7610	9123	1302	15796	—	5906	—
Any age Total	280714	88288	25503	5418	57367	12361	9562	107433	6695	40587	15788
(24%)	(39%)	(91%)	(60%)	(13%)	(74%)	(14%)	(15%)	(15%)		(15%)	

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

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

	All ages	0-34	35-69	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+/NK	
POPULATION (1000s; UN, 2004 revision)														
1995	27805	13119	12182	2007	1871	1954	1668	1722	1562	1399	1137	574	792	
2000	28004	12271	12848	2295	2012	1870	1937	1635	1653	1447	1220	908	758	
NUMBER OF DEATHS (Source: WHO)														
All causes														
1995	286396	13112	93584	3609	3833	6029	8532	14804	22846	33931	43427	35111	101162	
2000	280714	9096	80788	2978	3444	5040	8556	12132	19625	29013	40518	49415	100897	
Lung cancer														
1995	25741	40	13431	67	210	637	1207	2261	3707	5342	5446	2975	3849	
2000	25503	29	11243	63	173	454	1105	1935	3069	4444	5503	4797	3931	
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)														
1995	846.2*	94.5*	850.4*	179.9	204.8	308.6	511.5	859.8	1462.4	2425.9	3820.1	6114.8	12768.1	
2000	765.1*	69.8*	706.8*	129.7	171.2	269.5	441.7	742.1	1187.5	2005.7	3322.2	5442.8	13312.7	
All cancer														
1995	259.8*	7.2*	357.8*	25.3	51.6	108.8	218.3	390.4	663.6	1046.3	1442.6	1861.4	2451.5	
2000	241.2*	6.7*	308.4*	21.1	43.9	90.4	183.8	350.2	565.0	904.2	1334.7	1826.6	2608.8	
Lung cancer														
1995	78.0*	0.3*	124.3*	3.3	11.2	32.6	72.4	131.3	237.3	381.9	479.1	518.1	485.8	
2000	69.7*	0.2*	100.6*	2.7	8.6	24.3	57.0	118.4	185.7	307.2	451.2	528.4	518.7	
Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)														
1995	18.8*	0.2*	32.6*	2.1	6.5	14.2	24.9	41.5	60.1	78.9	86.8	93.0	114.9	
2000	15.5*	0.2*	25.0*	1.4	4.6	11.1	20.7	33.5	43.4	60.6	74.0	85.8	111.0	
Other cancer														
1995	163.0*	6.7*	200.9*	19.8	33.9	62.0	121.1	217.6	366.2	585.5	876.8	1250.3	1850.8	
2000	156.0*	6.4*	182.8*	16.9	30.8	55.1	106.1	198.4	335.9	536.4	809.5	1212.5	1979.2	
Chronic obstructive pulmonary disease (COPD)														
1995	35.4*	0.4*	18.5*	0.5	1.4	1.6	5.6	12.3	28.7	79.5	178.0	356.8	835.7	
2000	31.7*	0.3*	14.1*	0.6	1.2	1.9	4.6	10.1	23.7	56.9	134.6	304.5	841.5	
Other respiratory disease														
1995	22.9*	1.5*	13.5*	1.9	2.8	3.4	5.8	10.3	22.5	47.7	95.4	189.8	541.5	
2000	25.2*	1.1*	13.1*	2.7	3.3	4.8	6.9	11.8	18.9	43.2	93.8	188.2	671.6	
Vascular disease														
1995	318.2*	5.7*	258.9*	24.1	43.9	84.7	137.3	249.3	455.7	817.4	1427.7	2564.4	6523.9	
2000	284.8*	4.7*	205.7*	17.9	39.1	75.7	125.6	209.1	341.1	631.5	1168.5	2117.6	6605.0	
Liver cirrhosis														
1995	25.3*	0.7*	42.2*	8.7	12.6	20.8	33.3	51.8	75.0	93.5	115.5	134.1	147.2	
2000	19.2*	0.4*	32.0*	7.0	10.2	17.2	24.0	36.0	53.7	76.0	90.7	101.2	116.1	
Other medical causes														
1995	130.3*	44.9*	104.8*	74.6	46.3	44.9	61.3	91.0	152.7	263.2	450.7	827.2	1866.8	
2000	114.2*	25.6*	86.8*	39.0	36.8	38.6	52.7	79.4	129.2	231.7	407.5	765.8	2045.1	
All non-medical causes														
1995	54.4*	34.2*	54.6*	44.8	46.2	44.3	49.9	54.8	64.3	78.2	110.1	180.9	401.6	
2000	48.7*	31.1*	46.6*	41.5	36.7	40.9	44.1	45.4	55.8	62.2	92.4	138.7	424.6	

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

1995, 2000: ITALY

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	5569	856	34	19	803	23	120	466	41	2859	1204
35-69 Sm.	2822	1308	1059	84	165	223	36	787	—	468	—
Total	48171	23132	2179	434	20519	611	572	12212	2074	7405	2165
(%)	(6%)	(6%)	(49%)	(19%)	(1%)	(36%)	(6%)	(6%)	(6%)	(6%)	(6%)
70+ Sm.	8629	2147	1621	175	351	2290	154	3035	—	1003	—
Total	216554	37519	2955	736	33828	5579	6165	118877	3128	37644	7642
(%)	(4%)	(6%)	(55%)	(24%)	(1%)	(41%)	(2%)	(3%)	(3%)	(3%)	(3%)
Any age Sm.	11451	3455	2680	259	516	2513	190	3822	—	1471	—
Total	270294	61507	5168	1189	55150	6213	6857	131555	5243	47908	11011
(%)	(4%)	(6%)	(52%)	(22%)	(1%)	(40%)	(3%)	(3%)	(3%)	(3%)	(3%)
2000											
0-34 Sm.	—	—	—	—	—	—	—	—	—	—	—
Total	4111	766	19	16	731	25	74	316	31	1830	1069
35-69 Sm.	2707	1406	1138	101	167	193	50	629	—	429	—
Total	42847	21953	2269	480	19204	534	765	9670	1608	6502	1815
(%)	(6%)	(6%)	(50%)	(21%)	(1%)	(36%)	(7%)	(7%)	(7%)	(7%)	(7%)
70+ Sm.	10560	2856	2177	230	449	2707	237	3515	—	1245	—
Total	232449	42424	3743	865	37816	6078	8383	123011	2963	42162	7428
(%)	(5%)	(7%)	(58%)	(27%)	(1%)	(45%)	(3%)	(3%)	(3%)	(3%)	(3%)
Any age Sm.	13267	4262	3315	331	616	2900	287	4144	—	1674	—
Total	279407	65143	6031	1361	57751	6637	9222	132997	4602	50494	10312
(%)	(5%)	(7%)	(55%)	(24%)	(1%)	(44%)	(3%)	(3%)	(3%)	(3%)	(3%)

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	29497	12688	12857	2007	1889	1986	1730	1835	1741	1669	1538	878	1537	
2000	29710	11798	13410	2285	2020	1897	1985	1721	1810	1691	1576	1375	1551	
NUMBER OF DEATHS (Source: WHO)														
All causes														
1995	270294	5569	48171	1520	2028	3420	4621	7298	11105	18179	28985	30703	156866	
2000	279407	4111	42847	1372	1959	2795	4703	6247	10060	15711	25695	41648	165106	
Lung cancer														
1995	5168	34	2179	48	73	178	208	339	519	814	932	678	1345	
2000	6031	19	2269	26	95	173	263	414	548	750	1012	1152	1579	
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)														
1995	496.8*	44.8*	392.5*	75.7	107.3	172.2	267.1	397.8	637.9	1089.4	1885.1	3496.9	10208.0	
2000	465.4*	35.6*	341.3*	60.0	97.0	147.3	236.9	362.9	555.9	929.2	1630.6	3029.2	10643.1	
All cancer														
1995	135.3*	6.1*	187.6*	31.3	54.9	99.1	152.7	215.5	308.7	451.2	616.0	846.9	1341.3	
2000	130.2*	5.8*	174.2*	25.6	53.0	84.8	140.3	207.2	296.3	412.6	593.2	835.3	1391.8	
Lung cancer														
1995	11.7*	0.2*	17.8*	2.4	3.9	9.0	12.0	18.5	29.8	48.8	60.6	77.2	87.5	
2000	12.4*	0.1*	18.1*	1.1	4.7	9.1	13.2	24.1	30.3	44.4	64.2	83.8	101.8	
Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)														
1995	2.6*	0.1*	3.5*	0.3	0.6	1.7	3.6	4.5	5.7	8.2	11.7	13.4	28.5	
2000	2.7*	0.1*	3.8*	0.6	1.5	1.4	3.9	4.0	6.2	8.9	11.2	15.5	30.7	
Other cancer														
1995	121.1*	5.7*	166.3*	28.5	50.4	88.4	137.1	192.6	273.2	394.2	543.7	756.3	1225.2	
2000	115.0*	5.5*	152.3*	23.9	46.7	74.3	123.1	179.2	259.8	359.4	517.8	736.1	1259.3	
Chronic obstructive pulmonary disease (COPD)														
1995	10.3*	0.2*	5.1*	0.6	0.5	1.4	2.4	3.4	8.3	18.8	39.9	93.1	270.0	
2000	9.9*	0.2*	4.3*	0.1	0.4	0.9	2.6	3.5	7.2	15.6	34.2	72.4	292.9	
Other respiratory disease														
1995	11.2*	1.0*	4.7*	1.3	1.4	1.8	2.2	3.7	8.0	14.4	32.2	71.5	328.1	
2000	13.9*	0.7*	6.1*	1.3	1.9	2.5	3.9	5.5	9.3	18.3	35.0	76.9	436.7	
Vascular disease														
1995	213.1*	3.6*	100.7*	8.9	16.3	30.3	50.8	82.8	165.1	350.7	750.8	1672.4	6029.1	
2000	195.6*	2.4*	78.1*	8.3	14.4	22.8	39.8	69.7	125.2	266.3	587.9	1330.4	6153.3	
Liver cirrhosis														
1995	11.7*	0.3*	16.9*	2.2	4.0	6.0	10.4	20.2	30.1	45.6	65.3	86.4	88.8	
2000	9.2*	0.2*	12.9*	2.1	2.7	5.3	7.8	14.1	21.4	36.8	52.4	70.6	75.2	
Other medical causes														
1995	92.8*	25.0*	60.3*	20.9	18.5	22.2	32.3	54.6	97.2	176.4	334.7	624.5	1757.9	
2000	86.7*	17.9*	51.9*	12.8	14.7	20.0	29.8	49.6	80.6	155.6	289.2	565.8	1922.6	
All non-medical causes														
1995	22.5*	8.7*	17.2*	10.6	11.7	11.6	16.4	17.6	20.4	32.4	46.2	102.1	392.8	
2000	19.9*	8.5*	13.9*	10.0	9.9	11.0	12.7	13.3	16.0	24.0	38.6	77.9	370.5	

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

ITALY: 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	– / 9.1	– / 4.1	–
35–69	25 / 81	2.7 / 43	22 years
70+	42 / 191	11 / 232	8 years
All ages	66 / 281	13 / 279	13 years

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

Cause	Male (by age)				Female (by age)			
	0–34	35–69	70+	All	0–34	35–69	70+	All
Lung Cancer	–/0.0	10/11	13/14	23/26	–/0.0	1.1/2.3	2.2/3.7	3.3/6.0
All Cancer	–/0.9	15/35 (43%)	19/53 (37%)	34/88	–/0.8	1.4/22 (6%)	2.9/42 (7%)	4.3/65
Vascular	–/0.7	5.7/23	10/84	16/107	–/0.3	0.6/9.7	3.5/123	4.1/133
Respiratory	–/0.2	1.5/3.0	8.9/19	10/22	–/0.1	0.2/1.3	2.9/14	3.2/16
All Other	–/7.4	2.6/20	3.3/36	5.9/63	–/2.9	0.4/9.9	1.2/53	1.7/65
All Causes	–/9.1	25/81 (31%)	42/191 (22%)	66/281	–/4.1	2.7/43 (6%)	11/232 (5%)	13/279

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

Cause	Male	Female	Male + Female
All Cancer	34 / 88 (39%)	4.3 / 65 (7%)	38 / 153 (25%)
All Causes	66 / 281 (24%)	13 / 279 (5%)	80 / 560 (14%)

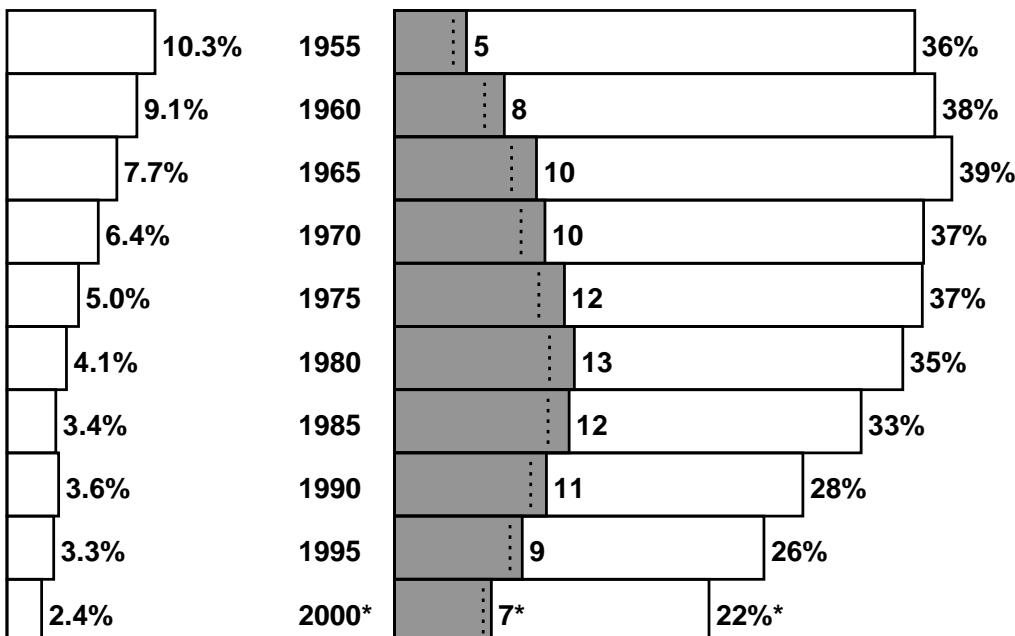
1955-2000: ITALY

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)

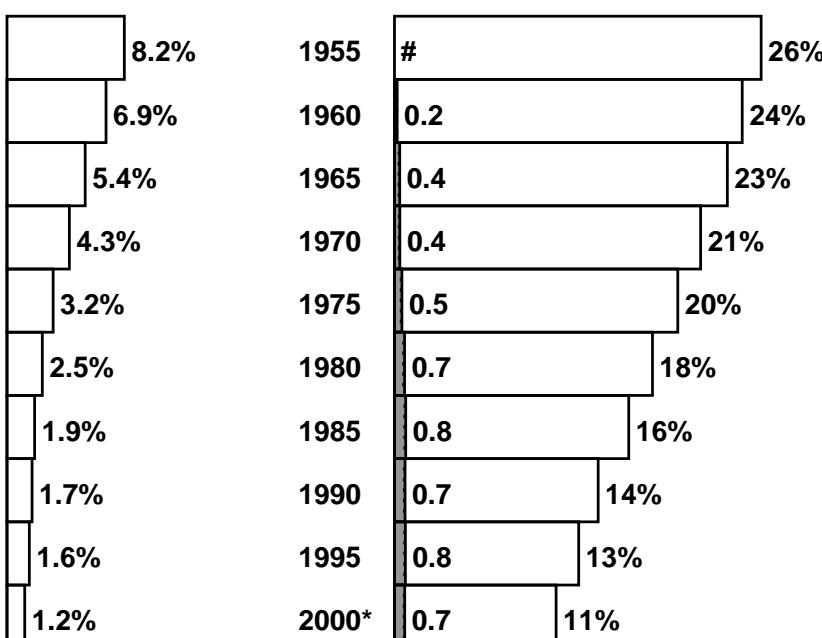
*eg, at year 2000 male death rates, out of 100 men aged 35, 22 would die before age 70 (with 7 of these deaths attributed to smoking)

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

ITALY: 1950-2000**Numbers of deaths attributed to smoking / total deaths (thousands)**

Year	Male (by age)				Female (by age)			
	0-34	35-69	70+	All	0-34	35-69	70+	All
1950
1955	-/45	14/88 (15%)	1.1/102 (1%)	15/234	-/34	0.0/67	0.0/112	0.0/212
1960	-/40	22/99 (22%)	3.1/116 (3%)	25/255	-/29	0.6/68 (0.8%)	0.1/129 (0.1%)	0.7/226
1965	-/35	30/113 (26%)	7.5/128 (6%)	37/275	-/24	1.1/70 (2%)	0.3/148 (0.2%)	1.4/243
1970	-/29	33/115 (29%)	14/133 (10%)	47/277	-/19	1.2/68 (2%)	0.7/157 (0.4%)	1.9/244
1975	-/22	39/121 (32%)	23/152 (15%)	62/295	-/13	1.7/66 (3%)	3.1/180 (2%)	4.8/259
1980	-/17	41/115 (36%)	30/162 (18%)	71/294	-/9.5	2.3/60 (4%)	3.5/190 (2%)	5.7/260
1985	-/13	39/103 (38%)	36/171 (21%)	75/287	-/6.8	2.5/53 (5%)	6.6/201 (3%)	9.1/261
1990	-/14	38/102 (37%)	35/166 (21%)	72/282	-/6.0	2.7/53 (5%)	7.5/203 (4%)	10/262
1995	-/13	32/94 (34%)	39/180 (22%)	71/286	-/5.6	2.8/48 (6%)	8.6/217 (4%)	11/270
2000	-/9.1	25/81 (31%)	42/191 (22%)	66/281	-/4.1	2.7/43 (6%)	11/232 (5%)	13/279

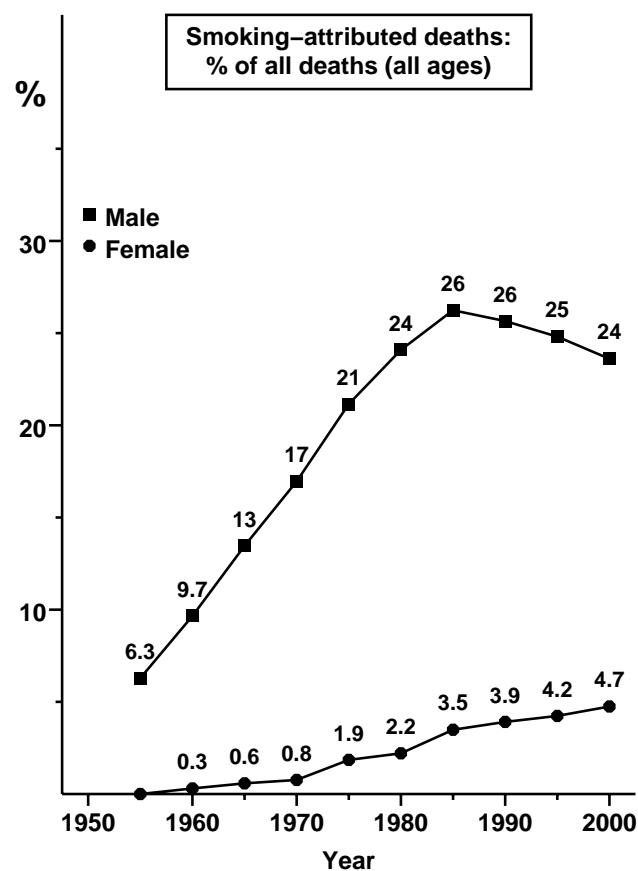
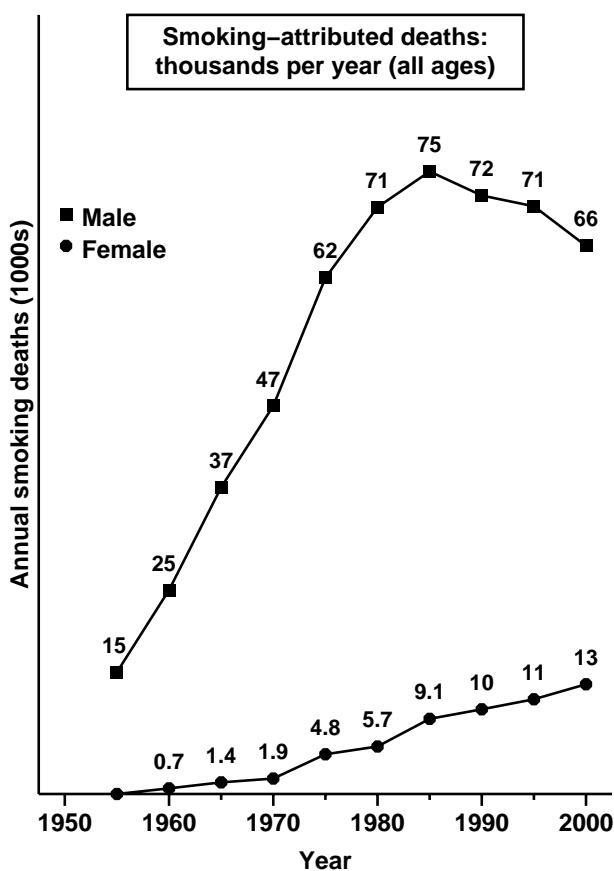
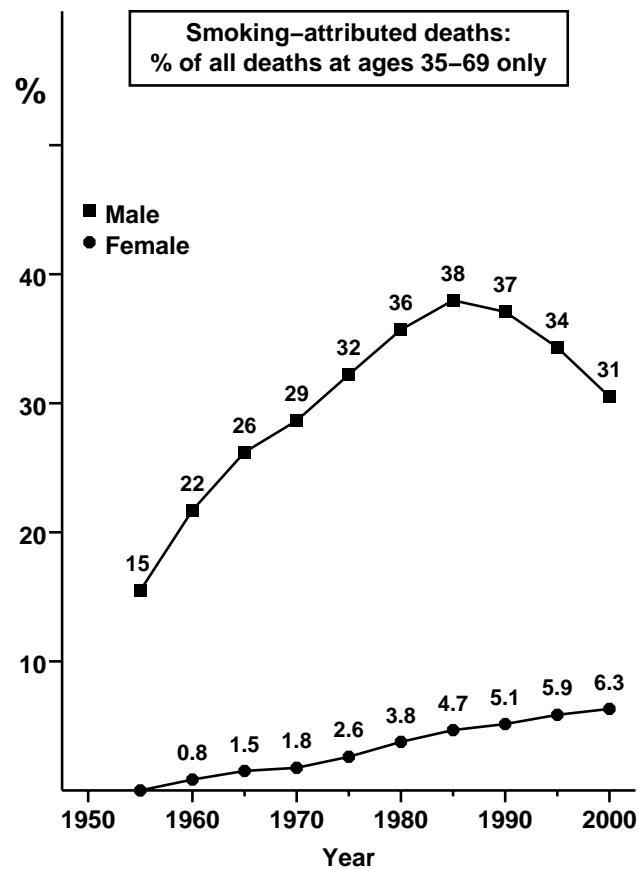
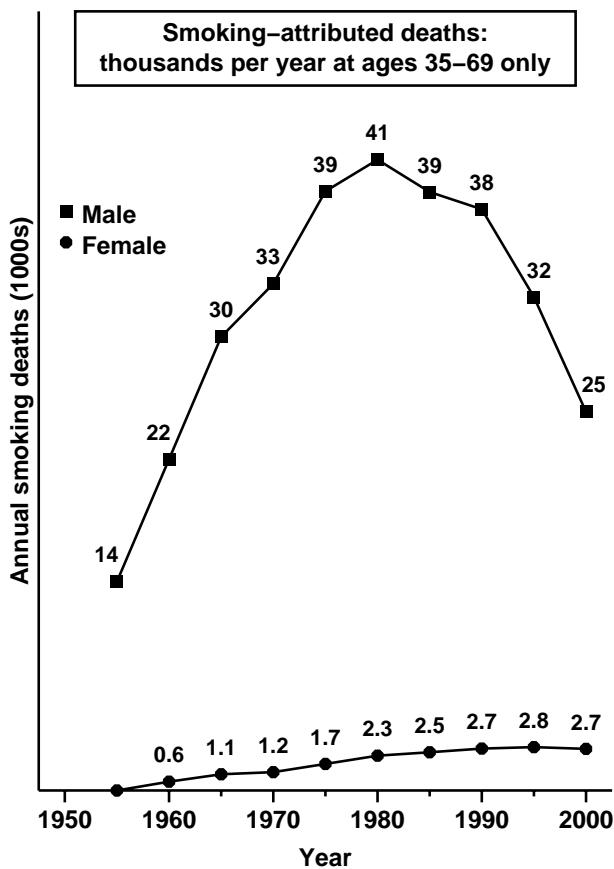
50-year total* (M=millions), mid-1950 to mid-2000: 2.9/ 26M

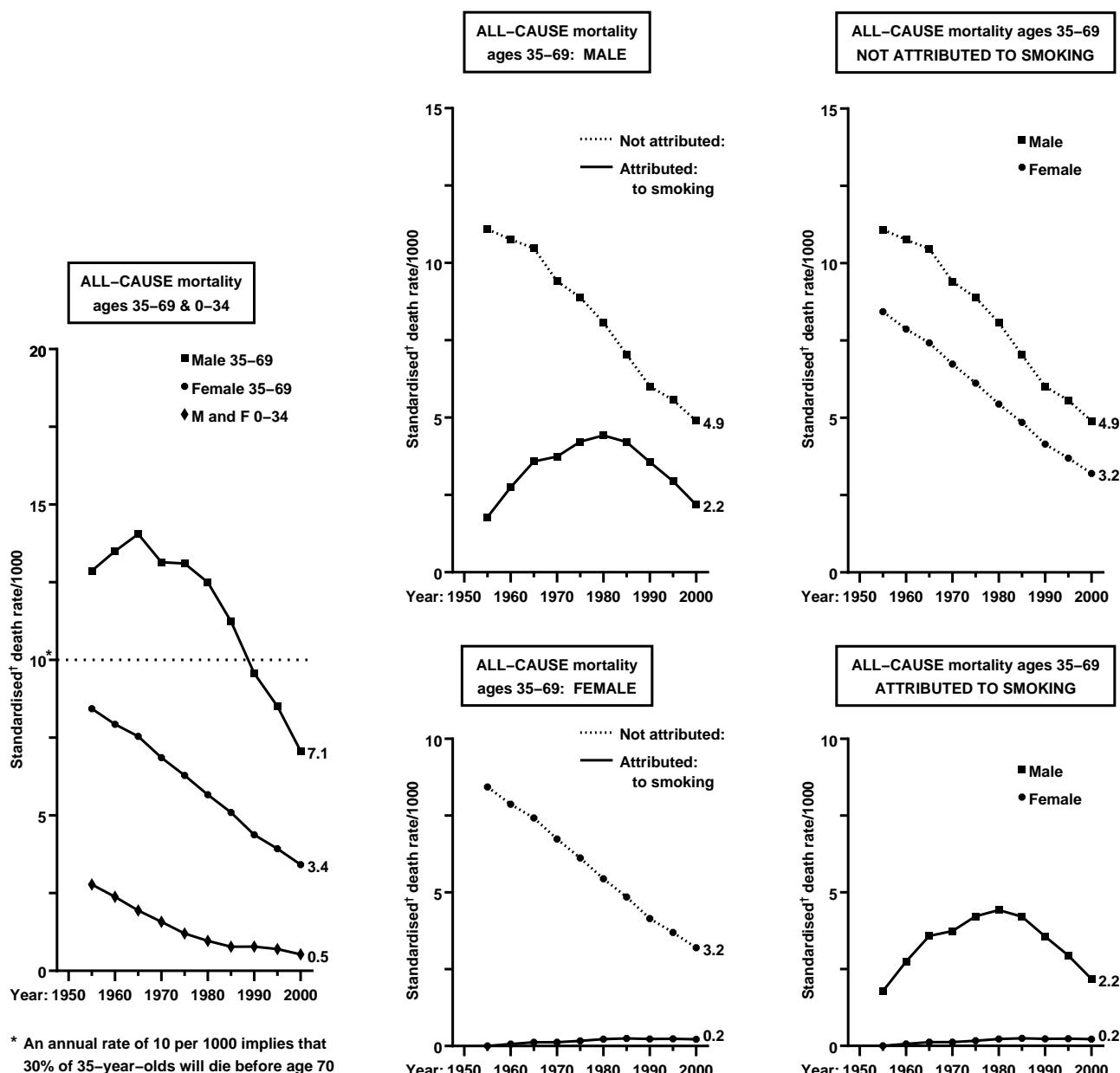
1950-2000 by age & sex:

-/1.3M (30%)	1.5/5.2M (15%)	1.1/7.3M	2.6/14M	-/0.8M	0.1/3.0M (3%)	0.2/8.6M (2%)	0.3/12M
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*Estimated as 10 times the sum of the annual numbers for 1955, 1965, 1975, 1985 & 1995

1955-2000: ITALY



ITALY: 1955-2000**ALL-CAUSE mortality rates attributed and not attributed to smoking**

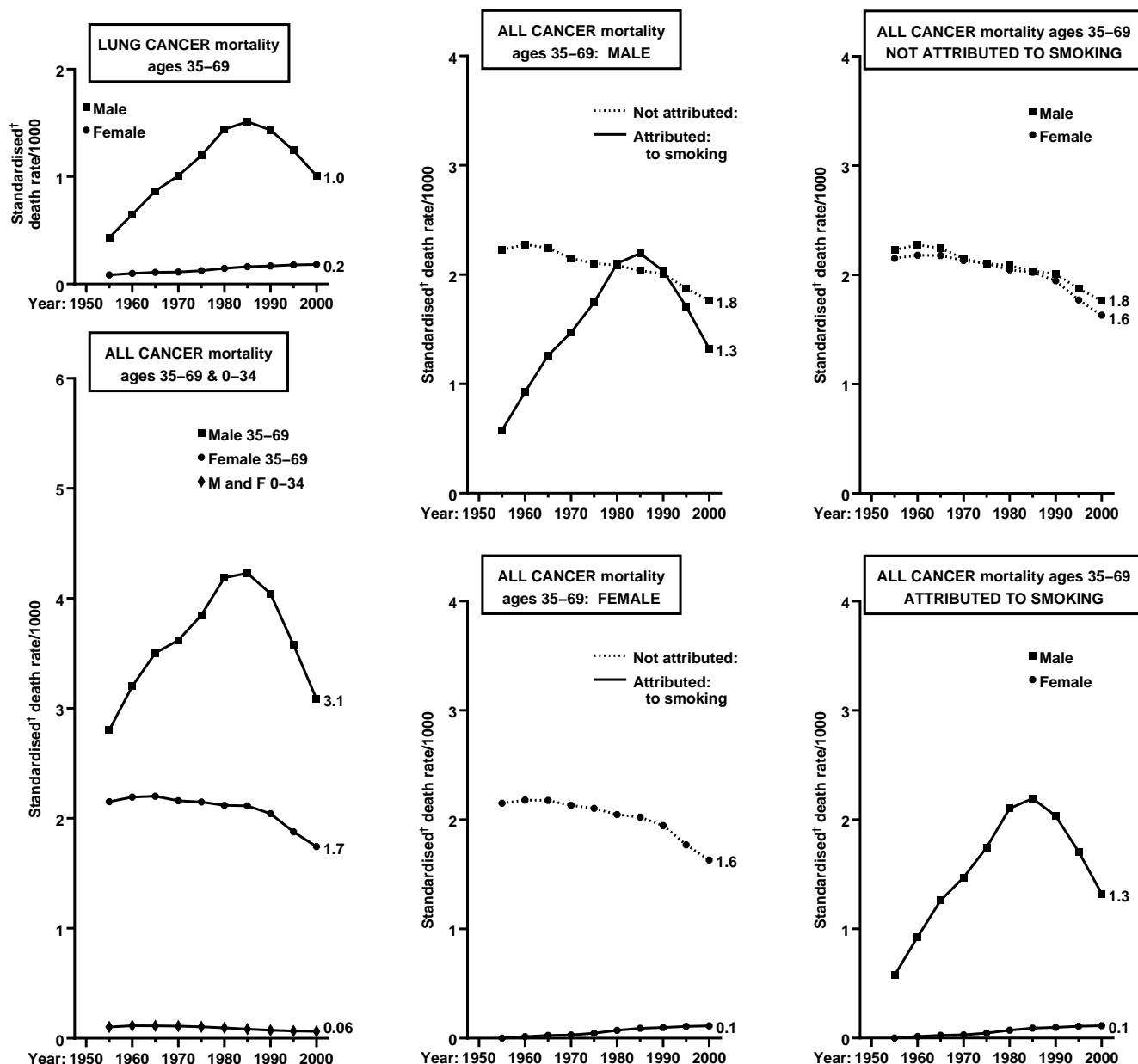
[†] Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

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		Yes	No	0-34		35-69		70-79	
		Yes	No	Yes	No	Yes	No			Yes	No	Yes	No	Yes	No
1950		
1955	-	3.11		1.78	11.1	0.91	70.7	-	2.44	0.00	8.43	0.00	59.3		
1960	-	2.71		2.74	10.8	2.27	68.1	-	2.04	0.06	7.87	0.07	55.3		
1965	-	2.28		3.58	10.5	5.27	67.1	-	1.60	0.12	7.42	0.21	54.1		
1970	-	1.88		3.74	9.40	8.86	61.9	-	1.27	0.12	6.73	0.32	48.6		
1975	-	1.46		4.22	8.88	12.9	60.0	-	0.93	0.16	6.12	0.92	45.1		
1980	-	1.21		4.42	8.07	13.9	53.4	-	0.71	0.22	5.44	0.89	39.2		
1985	-	0.99		4.21	7.03	15.2	49.8	-	0.56	0.24	4.85	1.36	35.3		
1990	-	1.05		3.56	6.01	12.9	40.8	-	0.50	0.23	4.15	1.28	28.6		
1995	-	0.95		2.94	5.56	12.4	37.2	-	0.45	0.23	3.69	1.30	25.6		
2000	-	0.70		2.18	4.89	11.2	32.6	-	0.36	0.22	3.20	1.29	22.0		

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

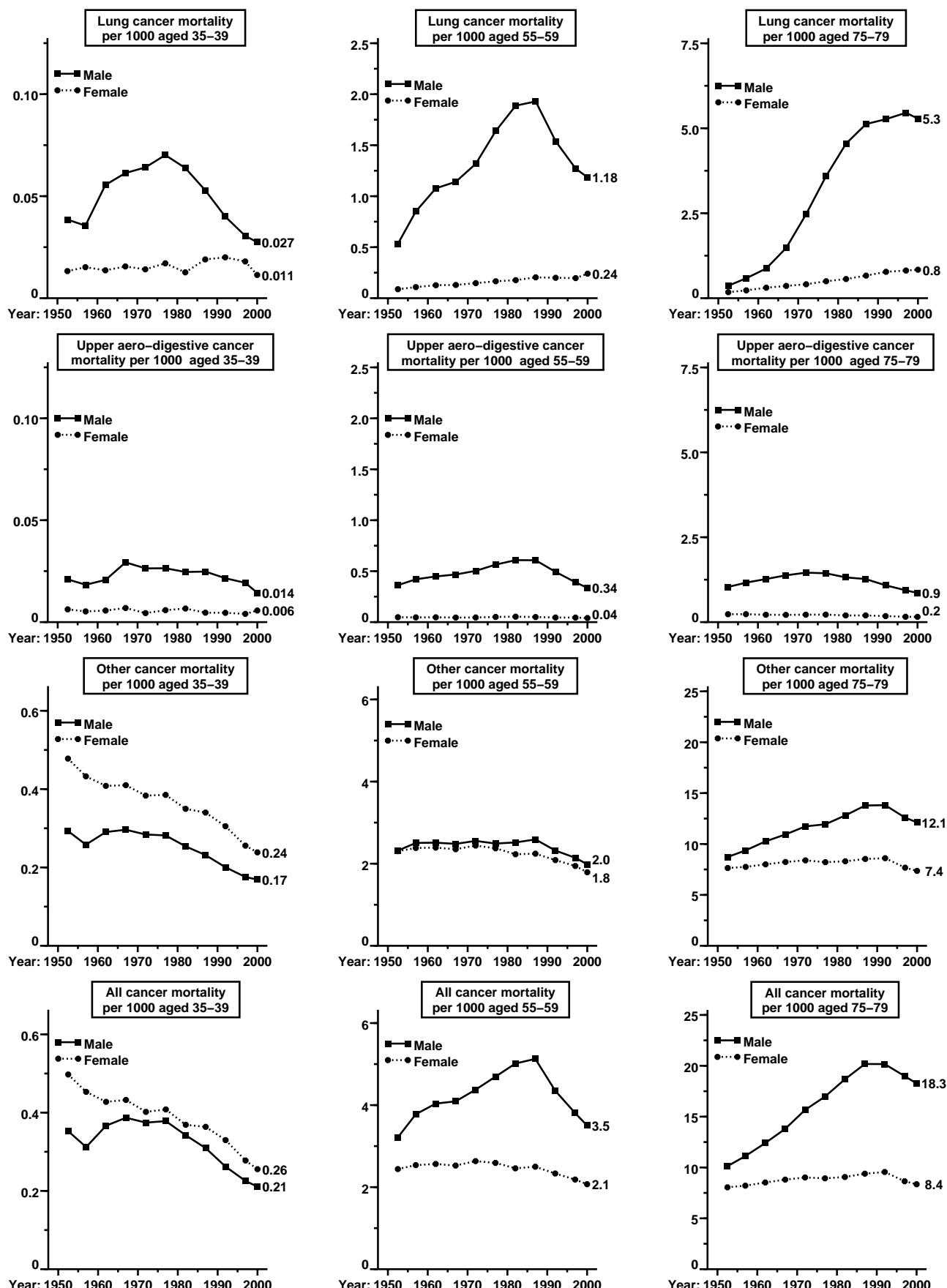
1955-2000: ITALY

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		Yes	No	0–34		35–69		70–79	
		Yes	No	Yes	No	Yes	No			Yes	No	Yes	No	Yes	No
1950		
1955		–	0.11	0.57	2.23	0.29	9.68	–	0.10	0.00	2.15	0.00	7.26	–	...
1960		–	0.12	0.93	2.27	0.72	10.2	–	0.11	0.01	2.18	0.01	7.71	–	...
1965		–	0.12	1.26	2.24	1.66	10.4	–	0.10	0.02	2.18	0.03	7.88	–	...
1970		–	0.12	1.47	2.15	3.04	10.7	–	0.10	0.03	2.13	0.06	7.55	–	...
1975		–	0.11	1.74	2.10	4.55	10.5	–	0.09	0.04	2.10	0.18	7.57	–	...
1980		–	0.10	2.10	2.08	5.75	10.4	–	0.09	0.07	2.05	0.22	7.53	–	...
1985		–	0.09	2.19	2.03	6.86	11.0	–	0.08	0.09	2.02	0.39	7.79	–	...
1990		–	0.08	2.03	2.01	6.48	10.6	–	0.07	0.10	1.95	0.43	7.32	–	...
1995		–	0.07	1.71	1.87	6.58	9.94	–	0.06	0.11	1.77	0.48	6.84	–	...
2000		–	0.07	1.32	1.76	6.33	9.47	–	0.06	0.11	1.63	0.54	6.60	–	...

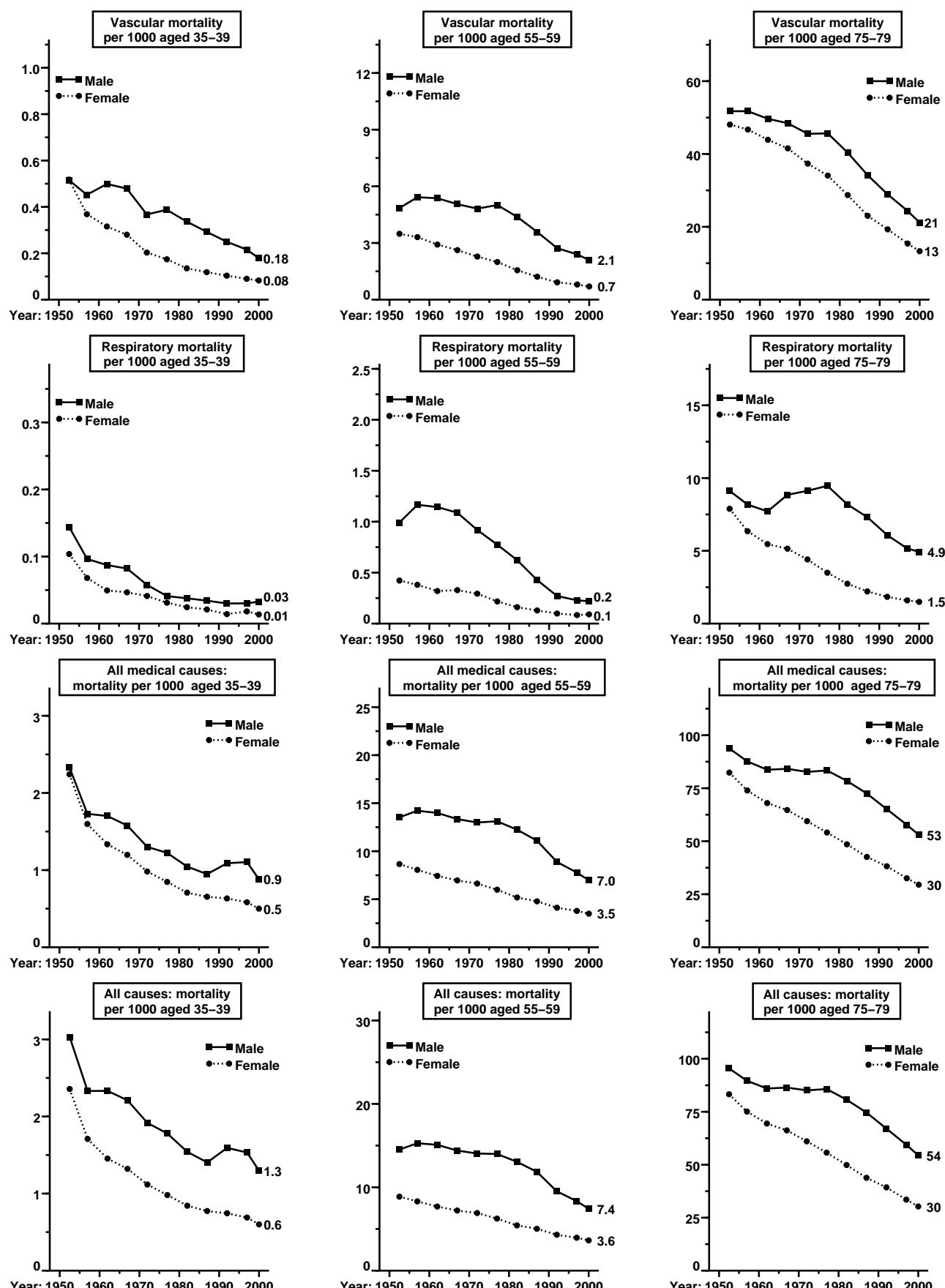
0–34 and 35–69 = means of 7 age-specific rates; 70–79 = mean of 2 rates (70–74 & 75–79)

ITALY: 1951-2000**Mortality* trends at selected ages: 35-39, 55-59 & 75-79**

* Annual mortality per 1000: averages of years available in 1950-54,...,1995-99; then year 2000 separately

1951-2000: ITALY

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



* Annual mortality per 1000: averages of years available in 1950-54,...,1995-99; then year 2000 separately