

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

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JAPAN

Raw data (pages 260–61, 262–63)

Analyses (pages 264–65, 266–67, 268–69)

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JAPAN: 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	525903	15480	183729	683.7	54.6	676.8	94.3	14.3	14.7	44.8	65.3	64.7	84.1
	F	435750	8116	85105	358.1	31.1	294.7	79.3	10.3	7.9	18.4	27.7	31.7	42.5
Tuberculosis	M	3402	9	851	4.3	0.0	3.2	-	-	0.0	-	-	0.0	0.1
	F	1549	8	240	1.2	0.0	0.9	0.0	-	-	-	0.0	0.1	0.1
HIV	M	47	9	36	0.1	0.0	0.1	-	-	-	-	0.0	0.1	0.1
	F	3	-	2	0.0	-	0.0	-	-	-	-	-	-	-
Other infective and parasitic	M	7458	234	3112	9.8	0.9	11.4	3.4	0.5	0.3	0.4	0.4	0.6	0.9
	F	7399	174	1788	6.4	0.8	6.3	3.3	0.3	0.2	0.5	0.4	0.4	0.3
ALL CANCER	M	179140	1352	76454	228.2	4.6	286.4	2.5	2.7	2.2	3.6	4.5	5.9	10.9
	F	116344	1295	42212	109.5	4.5	145.0	1.9	1.8	1.8	2.7	3.6	6.4	13.0
Mouth and pharynx cancer	M	3610	39	2043	4.7	0.1	7.5	-	-	0.1	0.0	0.0	0.2	0.5
	F	1456	19	490	1.3	0.1	1.7	-	-	-	0.0	0.0	0.1	0.2
Oesophagus cancer	M	8706	2	4797	11.1	0.0	17.8	-	-	-	-	-	0.0	0.0
	F	1550	3	541	1.4	0.0	1.9	-	-	-	-	-	0.0	0.0
Stomach cancer	M	32798	120	13882	41.8	0.4	51.9	-	-	-	0.1	0.4	0.6	1.6
	F	17852	155	5863	16.3	0.5	20.1	-	-	-	0.1	0.2	1.0	2.2
Colorectal cancer	M	20002	104	9034	25.6	0.3	33.6	-	0.0	0.0	0.1	0.3	0.6	1.3
	F	16201	83	5408	14.7	0.3	18.6	-	-	-	0.1	0.3	0.4	1.1
Liver cancer	M	22375	66	12702	28.3	0.2	48.1	0.2	0.1	0.1	0.1	0.1	0.4	0.7
	F	9399	28	2944	8.4	0.1	10.6	0.1	-	-	-	0.1	0.2	0.3
Pancreas cancer	M	10380	24	4854	13.2	0.1	18.0	-	-	-	-	-	0.1	0.4
	F	8714	12	2637	7.7	0.0	9.2	-	-	-	-	-	0.1	0.2
Larynx cancer	M	958	1	362	1.2	0.0	1.4	-	-	-	-	-	0.0	-
	F	88	-	29	0.1	-	0.1	-	-	-	-	-	-	-
Lung cancer	M	39053	75	13852	49.3	0.2	52.4	-	0.0	0.0	0.1	0.1	0.2	1.3
	F	14671	41	4617	13.1	0.1	16.0	0.0	-	-	-	-	0.2	0.7
Malignant melanoma	M	244	16	118	0.3	0.1	0.4	-	-	-	0.0	0.0	0.1	0.2
	F	204	11	76	0.2	0.0	0.3	-	-	-	-	0.0	0.1	0.1
Female breast cancer	F	9171	126	6492	11.1	0.4	21.5	-	-	-	-	0.1	0.5	2.3
Cervix cancer	F	2393	85	1364	2.7	0.3	4.6	-	-	-	-	0.0	0.4	1.5
Other uterine cancer	F	2809	26	1255	2.8	0.1	4.2	-	-	-	-	0.1	0.2	0.3
Ovarian cancer	F	4058	76	2387	4.5	0.3	8.0	-	-	0.1	0.2	0.3	0.4	0.8
Prostate cancer	M	7514	-	1283	9.5	-	5.1	-	-	-	-	-	-	-
Bladder cancer	M	3184	2	784	4.0	0.0	3.0	-	-	-	-	0.0	-	0.0
	F	1496	2	225	1.1	0.0	0.8	-	-	-	-	-	0.0	0.0
Other and ill-defined cancer sites	M	19994	437	8120	25.7	1.6	30.3	1.2	1.4	0.8	1.7	1.7	1.5	2.4
	F	18495	317	5035	16.3	1.2	17.6	0.8	1.1	1.3	1.1	1.0	1.3	1.7
Hodgkin's disease	M	76	2	39	0.1	0.0	0.1	-	-	-	-	-	0.0	0.0
	F	51	5	18	0.1	0.0	0.1	-	-	-	0.0	0.0	0.0	0.0
Myeloma and non-Hodgkin lymphomas	M	6276	131	2595	8.1	0.4	9.6	0.1	0.2	0.3	0.4	0.5	0.7	0.9
	F	4940	73	1613	4.6	0.2	5.6	0.1	0.1	0.1	0.2	0.3	0.4	0.5
Leukaemia	M	3970	333	1989	5.3	1.2	7.2	1.0	0.9	0.9	1.2	1.2	1.5	1.5
	F	2796	233	1218	3.1	0.9	4.2	0.9	0.7	0.4	1.0	1.1	0.9	1.1
Diabetes	M	6489	64	2918	8.3	0.2	10.8	-	-	0.1	0.1	0.2	0.3	0.7
	F	5814	25	1119	4.7	0.1	3.9	0.0	-	-	-	0.1	0.2	0.2
ALL VASCULAR DISEASE	M	144629	1524	42933	186.2	5.1	158.3	4.0	0.8	1.5	2.8	5.0	7.7	13.8
	F	153709	645	18269	114.1	2.3	64.1	3.3	0.6	0.9	1.4	1.9	2.8	5.4
Rheumatic heart disease and fever	M	774	4	202	1.0	0.0	0.8	0.0	-	-	-	0.0	0.0	0.0
	F	1756	2	241	1.3	0.0	0.9	-	-	-	-	-	0.0	0.0
Hypertensive disease	M	2163	6	428	2.8	0.0	1.6	-	-	-	-	-	0.1	0.1
	F	3900	-	216	2.6	-	0.8	-	-	-	-	-	-	-
Ischaemic heart disease	M	37875	274	13462	48.6	0.9	49.6	0.1	0.0	0.1	0.3	0.8	1.6	3.2
	F	32308	64	4010	24.2	0.2	14.3	-	0.0	0.0	0.2	0.1	0.2	0.9
Pulmonary embolism and other venous	M	841	19	296	1.1	0.1	1.1	-	-	0.1	0.1	0.0	0.1	0.2
	F	1170	21	372	1.1	0.1	1.3	-	-	-	-	0.1	0.1	0.3
Cerebrovascular disease	M	63127	296	17191	81.0	1.0	63.5	0.4	0.2	0.1	0.4	0.7	1.4	3.4
	F	69402	180	8768	51.8	0.6	30.5	0.4	0.2	0.4	0.4	0.4	0.8	1.7
Other vascular disease	M	39849	925	11354	51.7	3.1	41.8	3.5	0.6	1.2	2.0	3.3	4.5	6.9
	F	45173	378	4662	33.1	1.4	16.4	3.0	0.4	0.5	0.8	1.2	1.6	2.4
Chronic obstructive pulmonary disease	M	12722	123	1577	16.2	0.4	6.2	0.6	0.3	0.3	0.3	0.5	0.5	0.5
	F	6448	68	642	4.8	0.2	2.3	0.2	0.1	0.1	0.2	0.3	0.2	0.5
Other respiratory disease	M	62822	436	8817	80.4	1.7	34.0	5.7	0.9	0.9	0.7	1.0	1.0	1.7
	F	52509	366	3465	36.9	1.5	12.3	5.5	1.0	0.6	0.7	0.6	0.8	1.5
Peptic ulcer	M	2161	14	812	2.8	0.0	3.0	0.1	0.0	-	0.0	0.0	-	0.2
	F	1708	4	183	1.2	0.0	0.6	-	0.0	-	-	0.0	-	0.0
Liver cirrhosis	M	9285	82	7018	12.4	0.3	24.8	0.0	0.0	0.1	-	0.0	0.3	1.4
	F	3715	22	1473	3.6	0.1	5.1	-	-	-	-	0.0	0.1	0.4
Renal disease	M	9115	46	1834	11.7	0.2	6.9	0.4	-	0.1	0.1	-	0.2	0.4
	F	10749	33	1017	7.7	0.1	3.6	0.3	-	0.0	0.1	0.1	0.1	0.3
Pregnancy, birth	F	84	58	25	0.1	0.2	0.1	-	-	-	0.1	0.1	0.3	0.9
Congenital and perinatal causes	M	1973	1615	185	4.5	7.3	0.7	46.7	1.1	0.7	0.8	0.6	0.5	0.5
	F	1854	1421	173	4.2	6.8	0.6	44.2	1.0	0.5	0.6	0.6	0.4	0.2
Ill-defined causes	M	9098	411	1363	12.3	1.7	4.8	8.6	0.1	0.1	0.3	0.9	0.8	1.1
	F	17450	245	417	11.6	1.1	1.4	6.3	0.0	0.0	0.3	0.4	0.4	0.3
Other medical causes	M	28254	1094	9273	37.0	4.1	34.1	8.8	2.0	2.6	3.4	3.4	3.5	4.8
	F	31918	823	5610	26.2	3.2	19.5	6.5	2.0	1.7	2.0	3.0	3.2	3.8
ALL NON-MEDICAL CAUSES	M	49308	8467	26546	69.5	28.1	92.0	13.5	5.7	5.8	32.5	48.7	43.3	47.0
	F	24497	2929	8470	25.9	10.2	28.8	7.6	3.3	2.0	9.9	16.7	16.4	15.7
Road traffic accidents	M	8221	2776	3495	12.0	9.3	12.3	1.9	2.3	1.8	18.2	19.3	11.8	9.9
	F	3557	579	1413	4.1	2.1	4.9	0.8	1.3	0.6	4.1	4.4	2.0	1.5
Fire	M	883	86	427	1.2	0.3	1.5	0.8	0.5	0.2	0.1	0.2	0.2	0.4
	F	533	61	184	0.6	0.2	0.6	0.2	0.3	0.3	0.2	0.3	0.1	0.2
Suicide	M	21656	3784	14912	31.0	11.9	50.7	-	-	1.7	8.7	21.3	23.6	28.2
	F	8595	1574	4512	10.7	5.1	15.2	-	-	0.5	3.8	9.4	11.2	11.1
Homicide	M	426	136	249	0.7	0.5	0.9	1.2	0.4	0.2	0.6	0.2	0.4	0.6
	F	342	116	155	0.5	0.5	0.5	1.0	0.4	0.1	0.3	0.6	0.5	0.3
POPULATION:			M=male											
(1000s; UN, 2004 revision)			F=female											
				62178	27284	29116	3109	3072	3352	3839	4402	5053	4457	
				64856	26141	29717								

2000: JAPAN

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			
112.5	174.1	293.1	460.7	742.4	1133.1	1821.4	2881.7	4646.7	11488.3	M	ALL CAUSES	001-999/A00-Y89
60.4	94.1	148.0	224.0	318.8	465.8	751.5	1246.3	2279.0	7488.3	F		
0.4	0.5	1.3	1.9	3.9	4.3	9.8	22.2	41.7	84.0	M	Tuberculosis	010-018, 137/ A15-A19, B90
0.0	0.1	0.1	0.2	0.6	1.5	3.6	7.4	11.9	23.3	F		
0.1	0.1	0.1	0.2	0.2	0.1	0.0	0.0	0.1	-	M	HIV	279.5, 279.6/B20-B24
-	-	-	-	0.0	0.0	-	-	-	0.0	F		
1.7	2.7	5.7	7.9	12.7	18.8	30.6	43.8	61.1	128.8	M	Other infective and parasitic	Rest of 001-139/rest of A00-B99 excl A33,A34
0.6	1.1	2.1	3.0	6.3	10.1	21.2	28.1	48.9	100.9	F		
18.8	41.4	86.0	167.3	309.1	510.9	871.0	1262.7	1716.8	2640.6	M	ALL CANCER	140-208/C00-C97
26.6	46.3	79.2	123.4	169.6	230.0	340.2	483.6	695.9	1216.2	F		
0.7	1.5	3.6	5.4	9.7	12.7	18.6	21.1	27.8	34.3	M	Mouth and pharynx cancer	140-149/C00-C14
0.4	0.6	0.9	1.6	1.7	3.0	3.5	5.7	7.7	17.3	F		
0.3	1.3	4.7	10.9	24.6	34.9	47.9	60.4	69.6	78.1	M	Oesophagus cancer	150/C15
0.1	0.3	0.8	1.3	2.3	3.6	4.7	5.7	7.9	19.0	F		
3.4	7.7	16.1	30.8	57.3	91.4	156.5	226.5	305.3	516.7	M	Stomach cancer	151/C16
4.0	7.9	13.3	17.0	22.2	32.5	43.8	66.2	104.2	216.5	F		
2.0	5.1	10.3	21.1	39.2	63.0	94.4	133.1	172.0	299.4	M	Colorectal cancer	153, 154/C18-C21
1.8	3.9	7.8	15.2	23.3	33.1	45.3	69.0	93.6	187.6	F		
1.4	4.6	11.6	25.8	48.5	86.0	158.6	165.4	163.8	170.4	M	Liver cancer	155.0/C22 excl C221
0.4	0.5	1.3	3.5	7.6	19.2	41.9	60.2	71.0	82.8	F		
0.9	2.4	6.1	11.8	21.1	33.6	50.1	71.8	97.5	133.4	M	Pancreas cancer	157/C25
0.4	1.4	3.2	5.5	10.7	16.1	27.3	40.9	62.0	97.5	F		
-	0.1	0.2	0.6	1.6	2.5	4.7	7.2	9.9	16.1	M	Larynx cancer	161/C32
0.0	-	0.0	0.1	0.1	0.2	0.3	0.2	0.5	1.2	F		
2.4	7.4	14.1	28.0	51.5	90.0	173.4	309.0	460.3	625.9	M	Lung cancer	162/C33, C34
1.8	3.8	5.8	12.7	18.1	26.9	42.8	62.7	98.2	169.0	F		
0.2	0.2	0.2	0.3	0.4	0.9	0.9	1.1	1.2	4.0	M	Malignant melanoma	172/C43
0.1	0.1	0.4	0.2	0.3	0.2	0.5	0.7	1.0	2.1	F		
7.2	12.4	20.0	28.2	29.8	26.5	26.3	24.7	27.9	32.3	F	Female breast cancer	174/C50
2.6	2.9	4.6	4.9	5.8	5.5	5.6	7.8	9.8	13.6	F	Cervix cancer	180/C53
0.9	1.0	2.4	4.1	6.6	6.6	8.1	10.7	13.9	25.5	F	Other uterine cancer	179, 182/C54, C55
1.8	3.5	6.9	9.6	11.2	10.2	12.7	14.6	16.9	21.5	F	Ovarian cancer	183/C56, C570-C574
0.0	0.1	0.3	0.9	3.3	8.6	22.5	49.8	83.4	233.4	M	Prostate cancer	185/C61
0.1	0.3	0.6	1.6	2.8	5.4	9.9	21.6	35.9	81.6	M	Bladder cancer	188/C67
-	0.1	0.1	0.5	0.9	1.3	2.6	4.7	9.5	26.9	F		
3.5	5.2	10.1	18.8	31.0	55.0	88.3	130.1	197.1	316.1	M	Other and ill-defined cancer sites	Rest of 140-199/ rest of C00-C80, C97
2.6	4.2	6.6	11.5	18.4	29.5	50.4	74.3	121.9	235.0	F		
0.1	0.1	0.1	0.1	0.2	0.1	0.3	0.4	0.7	0.8	M	Hodgkin's disease	201/C81
-	0.1	0.0	0.1	0.0	0.1	0.2	0.1	0.4	0.4	F		
1.3	2.2	4.1	5.4	11.0	15.9	27.6	43.3	63.0	91.1	M	Myeloma and non- Hodgkin lymphomas	200, 202-203/ C82-C90, C96
1.0	1.6	2.2	3.9	6.1	9.3	15.4	23.9	35.0	49.1	F		
2.6	3.2	3.9	5.8	6.8	10.8	17.3	21.9	29.3	39.2	M	Leukaemia	204-208/C91-C95
1.3	2.0	2.9	3.5	4.4	6.2	8.9	11.3	14.3	19.0	F		
1.1	2.6	4.3	6.7	11.4	20.5	29.1	41.1	55.8	99.7	M	Diabetes	250/E10-E14
0.3	0.8	1.5	2.0	4.3	6.9	11.7	22.6	40.3	89.5	F		
22.6	39.0	70.2	108.3	168.1	268.3	431.9	751.0	1361.1	3817.8	M	ALL VASCULAR DISEASE	390-459/I00-199
8.2	15.3	25.7	40.7	61.9	103.6	193.0	374.5	810.5	3126.7	F		
-	0.0	0.2	0.3	1.0	1.8	2.0	4.1	6.7	23.0	M	Rheumatic heart disease and fever	390-398/I00-I09
-	0.1	0.2	0.4	0.9	1.7	2.8	5.3	10.0	33.3	F		
0.2	0.3	0.6	1.3	1.6	2.6	4.5	8.5	15.5	82.0	M	Hypertensive disease	401-405/I10-I15
0.0	0.1	0.2	0.3	0.6	1.2	3.0	4.9	12.7	97.9	F		
6.0	10.8	20.1	34.7	54.9	86.1	134.8	216.5	353.5	832.2	M	Ischaemic heart disease	410-414/I20-I25
1.3	2.2	4.2	6.9	12.1	24.7	48.5	94.9	196.7	618.2	F		
0.2	0.4	0.6	0.4	1.4	1.9	2.8	4.9	8.5	16.9	M	Pulmonary embolism and other venous	415.1, 451-453/ I26, I80-I82
0.3	0.6	1.1	1.0	1.1	2.1	2.8	4.3	7.3	14.0	F		
7.5	14.2	28.8	43.3	67.1	106.2	177.1	323.7	616.3	1775.3	M	Cerebrovascular disease	430-438/I60-I69
3.7	7.8	13.8	22.7	32.5	47.3	85.5	168.3	360.9	1404.0	F		
8.6	13.2	19.9	28.2	42.2	69.8	110.6	193.3	360.6	1088.3	M	Other vascular disease	Rest of 390-459/ rest of I00-199
2.8	4.5	6.2	9.5	14.7	26.6	50.6	96.8	223.0	959.3	F		
0.8	1.0	1.2	1.9	4.0	9.4	24.8	72.1	155.3	432.5	M	Chronic obstructive pulmonary disease	490-496/ J40-J47, J67
0.6	0.5	1.1	1.0	1.7	3.4	7.7	16.6	37.7	130.0	F		
2.7	4.5	7.2	13.1	26.7	58.9	125.0	282.1	618.3	2361.7	M	Other respiratory disease	Rest of 460-519/ rest of J00-J98
1.5	2.3	3.3	5.6	10.5	20.7	42.5	95.0	234.0	1213.5	F		
0.3	0.8	1.7	2.3	3.1	4.8	7.9	11.4	19.0	47.5	M	Peptic ulcer	531-533/K25-K27
0.0	0.1	0.3	0.3	0.6	1.2	2.0	4.1	8.1	36.2	F		
3.9	8.6	16.2	24.6	34.0	42.8	43.5	37.3	34.2	42.5	M	Liver cirrhosis	571/K70, K74
0.8	1.7	2.6	3.8	5.8	8.1	12.9	18.3	25.2	30.5	F		
0.7	1.3	2.3	3.6	6.4	11.3	22.9	42.9	88.2	305.8	M	Renal disease	580-590/N00-N19
0.2	0.4	1.1	2.0	2.7	6.7	12.2	24.2	54.3	230.8	F		
0.4	0.2	-	0.0	0.0	-	-	-	-	0.0	F	Pregnancy, birth	630-676/A34,000-099
0.4	0.3	0.5	0.6	0.6	0.8	1.3	1.7	2.9	5.4	M	Congenital and perinatal causes	740-779/A33, P00-P96, Q00-Q99
0.4	0.4	0.4	0.6	0.6	0.7	1.0	1.6	2.2	4.6	F		
1.8	2.0	3.2	4.3	6.2	7.2	9.2	14.0	35.0	416.6	M	Ill-defined causes	780-799/R00-R99
0.5	0.6	0.9	1.1	1.6	1.9	3.3	8.2	23.8	486.1	F		
7.2	10.4	15.6	22.8	35.6	56.7	90.7	151.6	255.6	638.4	M	Other medical causes	Rest of 001-799/ rest of A00-R99
4.6	6.8	9.8	13.3	19.2	31.4	51.7	92.3	173.5	554.6	F		
50.2	58.9	77.5	95.2	120.3	118.5	123.7	147.8	201.6	466.9	M	ALL NON- MEDICAL CAUSES	E800-E999/V01-Y89
15.6	17.5	20.1	27.0	33.2	39.7	48.4	69.8	112.6	245.1	F		
7.5	8.6	9.9	11.3	13.3	17.3	17.8	24.7	34.7	48.4	M	Road traffic accidents	E810-E819, E826-E829/ part of V01-V99, Y850
1.9	2.7	2.7	3.8	5.8	7.5	9.6	14.4	20.3	18.1	F		
0.5	0.7	1.0	1.5	2.1	2.4	2.3	3.2	5.7	12.8	M	Fire	E890-E899/X00-X09
0.4	0.4	0.4	0.6	0.7	0.6	1.2	1.4	3.0	5.2	F		
32.4	36.4	48.5	59.0	72.3	58.4	48.2	41.4	39.8	80.0	M	Suicide	E950-E959/X60-X84
9.6	10.3	12.1	16.2	18.3	20.0	19.7	21.4	26.4	35.3	F		
0.5	0.6	0.9	1.0	1.0	0.8	1.1	0.6	0.6	1.0	M	Homicide	E960-E969/ X85-X99, Y00-Y09
0.4	0.4	0.5	0.4	0.5	0.9	0.6	0.7	0.7	0.9	F		
4109	3929	4484	5232	4290	3725	3347	2652	1591	1535	M	POPULATION	
4014	3868	4455	5240	4436	3964	3739	3219	2503	3277	F	(1000s; UN, 2004 revision)	

JAPAN: 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	17950	1646	66	48	1532	267	622	1563	90	4586	9176
35-69 Sm.	30798	18689	11694	2789	4206	1481	1314	6304	-	3010	-
35-69 Total	187677	77913	13921	6518	57474	2446	9437	45816	7483	21946	22636
	(16%)	(24%)	(84%)	(43%)	(7%)	(61%)	(14%)	(14%)		(14%)	
70+ Sm.	52815	25900	17293	2483	6124	8333	4488	10006	-	4088	-
70+ Total	295649	80064	19402	4539	56123	11949	46474	101136	2073	41378	12575
	(18%)	(32%)	(89%)	(55%)	(11%)	(70%)	(10%)	(10%)		(10%)	
Any age Sm.	83613	44589	28987	5272	10330	9814	5802	16310	-	7098	-
Any age Total	501276	159623	33389	11105	115129	14662	56533	148515	9646	67910	44387
	(17%)	(28%)	(87%)	(47%)	(9%)	(67%)	(10%)	(11%)		(10%)	
2000											
0-34 Sm.	-	-	-	-	-	-	-	-	-	-	-
0-34 Total	15480	1352	75	42	1235	123	436	1524	82	3496	8467
35-69 Sm.	28631	18219	11479	2969	3771	923	1137	5660	-	2692	-
35-69 Total	183729	76454	13852	7202	55400	1577	8817	42933	7018	20384	26546
	(16%)	(24%)	(83%)	(41%)	(7%)	(59%)	(13%)	(13%)		(13%)	
70+ Sm.	60952	33398	22406	3300	7692	7713	5263	10123	-	4455	-
70+ Total	326694	101334	25126	6030	70178	11022	53569	100172	2185	44117	14295
	(19%)	(33%)	(89%)	(55%)	(11%)	(70%)	(10%)	(10%)		(10%)	
Any age Sm.	89583	51617	33885	6269	11463	8636	6400	15783	-	7147	-
Any age Total	525903	179140	39053	13274	126813	12722	62822	144629	9285	67997	49308
	(17%)	(29%)	(87%)	(47%)	(9%)	(68%)	(10%)	(11%)		(11%)	

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	61526	28258	28759	3948	4530	5332	4425	3909	3614	3001	1943	1261	1304
2000	62178	27284	29116	4109	3929	4484	5232	4290	3725	3347	2652	1591	1535
NUMBER OF DEATHS (Source: WHO)													
All causes													
1995	501276	17950	187677	4413	8236	15616	21905	30491	47188	59828	60927	68504	166218
2000	525903	15480	183729	4621	6840	13141	24103	31848	42214	60962	76413	73947	176334
Lung cancer													
1995	33389	66	13921	101	289	757	1140	1831	3761	6042	6104	5702	7596
2000	39053	75	13852	97	289	634	1465	2210	3352	5805	8193	7326	9607
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	757.8*	64.0*	737.3*	111.8	181.8	292.9	495.1	780.0	1305.6	1993.8	3136.0	5431.7	12742.9
2000	683.7*	54.6*	676.8*	112.5	174.1	293.1	460.7	742.4	1133.1	1821.4	2881.7	4646.7	11488.3
All cancer													
1995	237.2*	5.6*	312.3*	22.5	46.7	93.3	182.1	325.1	598.6	917.5	1263.6	1756.7	2557.4
2000	228.2*	4.6*	286.4*	18.8	41.4	86.0	167.3	309.1	510.9	871.0	1262.7	1716.8	2640.6
Lung cancer													
1995	49.7*	0.2*	57.3*	2.6	6.4	14.2	25.8	46.8	104.1	201.4	314.2	452.1	582.3
2000	49.3*	0.2*	52.4*	2.4	7.4	14.1	28.0	51.5	90.0	173.4	309.0	460.3	625.9
Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)													
1995	16.4*	0.2*	25.9*	0.8	3.0	8.2	18.7	31.3	47.1	72.0	84.1	98.8	127.2
2000	17.0*	0.1*	26.6*	0.9	2.9	8.5	16.9	35.9	50.1	71.2	88.6	107.3	128.5
Other cancer													
1995	171.1*	5.3*	229.1*	19.2	37.3	71.0	137.7	247.0	447.4	644.1	865.3	1205.8	1847.9
2000	161.9*	4.2*	207.3*	15.5	31.2	63.4	122.4	221.8	370.8	626.4	865.1	1149.2	1886.2
Chronic obstructive pulmonary disease (COPD)													
1995	22.4*	0.9*	10.2*	1.0	1.5	2.0	3.9	6.7	16.2	40.5	99.1	228.6	547.5
2000	16.2*	0.4*	6.2*	0.8	1.0	1.2	1.9	4.0	9.4	24.8	72.1	155.3	432.5
Other respiratory disease													
1995	86.3*	2.4*	39.0*	3.4	5.9	8.7	16.0	30.7	66.2	142.4	305.0	724.0	2408.5
2000	80.4*	1.7*	34.0*	2.7	4.5	7.2	13.1	26.7	58.9	125.0	282.1	618.3	2361.7
Vascular disease													
1995	224.3*	5.4*	180.9*	23.6	41.4	71.4	117.5	188.1	311.7	512.6	906.4	1764.7	4697.1
2000	186.2*	5.1*	158.3*	22.6	39.0	70.2	108.3	168.1	268.3	431.9	751.0	1361.1	3817.8
Liver cirrhosis													
1995	14.2*	0.3*	27.6*	4.4	10.4	16.8	29.2	40.3	49.0	43.4	37.3	41.3	63.4
2000	12.4*	0.3*	24.8*	3.9	8.6	16.2	24.6	34.0	42.8	43.5	37.3	34.2	42.5
Other medical causes													
1995	105.5*	19.0*	85.7*	14.6	23.6	37.0	57.8	90.9	153.3	222.6	365.0	674.8	1976.1
2000	90.8*	14.4*	75.1*	13.6	20.8	34.7	50.2	80.3	124.4	201.5	328.8	559.4	1726.3
All non-medical causes													
1995	67.9*	30.4*	81.5*	42.2	52.2	63.7	88.7	98.2	110.6	114.8	159.6	241.5	492.9
2000	69.5*	28.1*	92.0*	50.2	58.9	77.5	95.2	120.3	118.5	123.7	147.8	201.6	466.9

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

1995, 2000: JAPAN

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	9683	1354	47	19	1288	130	478	728	24	3472	3497
35-69	Sm.	4439	2227	1849	143	235	332	197	1083	-	600	-
	Total	91189	41923	4333	882	36708	1096	3862	21402	1770	11863	9273
		(5%)	(5%)	(43%)	(16%)	(1%)	(30%)	(5%)	(5%)		(5%)	
70+	Sm.	20110	6649	5246	568	835	3669	1754	5529	-	2509	-
	Total	319991	60122	7976	1690	50456	6825	43075	134179	2216	60854	12720
		(6%)	(11%)	(66%)	(34%)	(2%)	(54%)	(4%)	(4%)		(4%)	
Any age	Sm.	24549	8876	7095	711	1070	4001	1951	6612	-	3109	-
	Total	420863	103399	12356	2591	88452	8051	47415	156309	4010	76189	25490
		(6%)	(9%)	(57%)	(27%)	(1%)	(50%)	(4%)	(4%)		(4%)	
2000												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	8116	1295	41	22	1232	68	366	645	22	2791	2929
35-69	Sm.	4249	2391	1986	171	234	199	181	938	-	540	-
	Total	85105	42212	4617	1060	36535	642	3465	18269	1473	10574	8470
		(5%)	(6%)	(43%)	(16%)	(1%)	(31%)	(5%)	(5%)		(5%)	
70+	Sm.	19579	7813	6306	620	887	2892	1716	4822	-	2336	-
	Total	342529	72837	10013	2012	60812	5738	48678	134795	2220	65163	13098
		(6%)	(11%)	(63%)	(31%)	(1%)	(50%)	(4%)	(4%)		(4%)	
Any age	Sm.	23828	10204	8292	791	1121	3091	1897	5760	-	2876	-
	Total	435750	116344	14671	3094	98579	6448	52509	153709	3715	78528	24497
		(5%)	(9%)	(57%)	(26%)	(1%)	(48%)	(4%)	(4%)		(4%)	

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	63946	27138	29449	3876	4478	5289	4500	4046	3863	3397	2753	2028	2577
2000	64856	26141	29717	4014	3868	4455	5240	4436	3964	3739	3219	2503	3277
NUMBER OF DEATHS (Source: WHO)													
All causes													
1995	420863	9683	91189	2426	4578	8520	11041	14241	21122	29261	41516	56924	221551
2000	435750	8116	85105	2425	3639	6595	11740	14144	18466	28096	40115	57053	245361
Lung cancer													
1995	12356	47	4333	66	169	380	551	732	1021	1414	1768	2205	4003
2000	14671	41	4617	74	147	259	664	803	1068	1602	2017	2459	5537
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	415.8*	37.8*	333.1*	62.6	102.2	161.1	245.4	351.9	546.8	861.4	1507.9	2806.3	8598.6
2000	358.1*	31.1*	294.7*	60.4	94.1	148.0	224.0	318.8	465.8	751.5	1246.3	2279.0	7488.3
All cancer													
1995	113.5*	4.8*	151.6*	28.0	49.7	82.8	125.0	170.3	247.9	357.3	511.5	734.7	1208.4
2000	109.5*	4.5*	145.0*	26.6	46.3	79.2	123.4	169.6	230.0	340.2	483.6	695.9	1216.2
Lung cancer													
1995	13.1*	0.2*	15.9*	1.7	3.8	7.2	12.2	18.1	26.4	41.6	64.2	108.7	155.4
2000	13.1*	0.1*	16.0*	1.8	3.8	5.8	12.7	18.1	26.9	42.8	62.7	98.2	169.0
Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)													
1995	2.7*	0.1*	3.2*	0.3	0.5	1.3	2.8	3.9	5.8	8.0	12.4	18.7	37.6
2000	2.8*	0.1*	3.7*	0.5	1.0	1.7	3.0	4.2	6.8	8.4	11.7	16.2	37.5
Other cancer													
1995	97.7*	4.6*	132.5*	26.0	45.4	74.3	109.9	148.4	215.7	307.7	434.9	607.2	1015.4
2000	93.6*	4.3*	125.4*	24.2	41.6	71.6	107.7	147.3	196.3	289.0	409.2	581.4	1009.8
Chronic obstructive pulmonary disease (COPD)													
1995	7.5*	0.5*	4.1*	0.7	0.9	1.6	2.0	4.1	6.6	12.8	28.5	61.4	186.1
2000	4.8*	0.2*	2.3*	0.6	0.5	1.1	1.0	1.7	3.4	7.7	16.6	37.7	130.0
Other respiratory disease													
1995	41.8*	2.0*	14.6*	1.5	3.1	4.1	7.3	11.9	25.3	48.8	116.2	286.0	1322.5
2000	36.9*	1.5*	12.3*	1.5	2.3	3.3	5.6	10.5	20.7	42.5	95.0	234.0	1213.5
Vascular disease													
1995	142.9*	2.7*	79.7*	8.5	17.0	30.1	47.3	77.3	135.7	242.1	505.8	1102.4	3799.2
2000	114.1*	2.3*	64.1*	8.2	15.3	25.7	40.7	61.9	103.6	193.0	374.5	810.5	3126.7
Liver cirrhosis													
1995	4.5*	0.1*	6.5*	1.0	1.9	2.7	4.6	7.1	12.6	15.5	21.6	30.9	38.6
2000	3.6*	0.1*	5.1*	0.8	1.7	2.6	3.8	5.8	8.1	12.9	18.3	25.2	30.5
Other medical causes													
1995	75.2*	15.3*	44.0*	8.5	12.2	17.1	26.4	43.2	73.8	126.5	230.8	445.4	1764.5
2000	63.4*	12.2*	37.1*	7.1	10.4	16.1	22.5	36.1	60.4	106.8	188.5	363.1	1526.2
All non-medical causes													
1995	30.5*	12.4*	32.7*	14.3	17.5	22.8	32.8	38.0	44.9	58.4	93.5	145.5	279.2
2000	25.9*	10.2*	28.8*	15.6	17.5	20.1	27.0	33.2	39.7	48.4	69.8	112.6	245.1

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

JAPAN: 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	– / 15	– / 8.1	–
35–69	29 / 184	4.2 / 85	22 years
70+	61 / 327	20 / 343	8 years
All ages	90 / 526	24 / 436	12 years

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

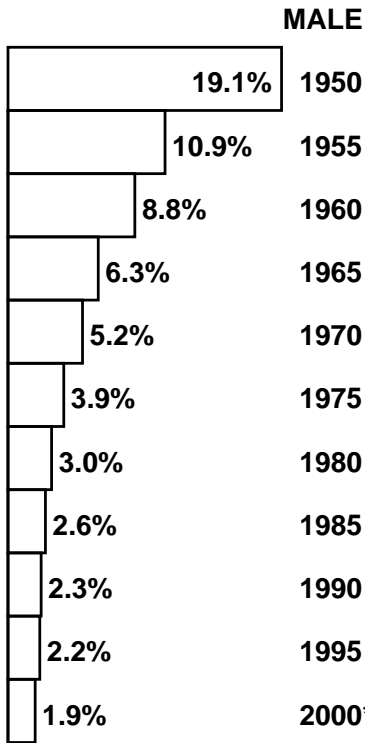
Cause	Male (by age)				Female (by age)			
	0–34	35–69	70+	All	0–34	35–69	70+	All
Lung Cancer	–/0.1	11/14	22/25	34/39	–/0.0	2.0/4.6	6.3/10	8.3/15
All Cancer	–/1.4	18/76 (24%)	33/101 (33%)	52/179	–/1.3	2.4/42 (6%)	7.8/73 (11%)	10/116
Vascular	–/1.5	5.7/43	10/100	16/145	–/0.6	0.9/18	4.8/135	5.8/154
Respiratory	–/0.6	2.1/10	13/65	15/76	–/0.4	0.4/4.1	4.6/54	5.0/59
All Other	–/12	2.7/54	4.5/61	7.1/127	–/5.7	0.5/21	2.3/80	2.9/107
All Causes	–/15	29/184 (16%)	61/327 (19%)	90/526	–/8.1	4.2/85 (5%)	20/343 (6%)	24/436

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

Cause	Male	Female	Male + Female
All Cancer	52 / 179 (29%)	10 / 116 (9%)	62 / 295 (21%)
All Causes	90 / 526 (17%)	24 / 436 (5%)	113 / 962 (12%)

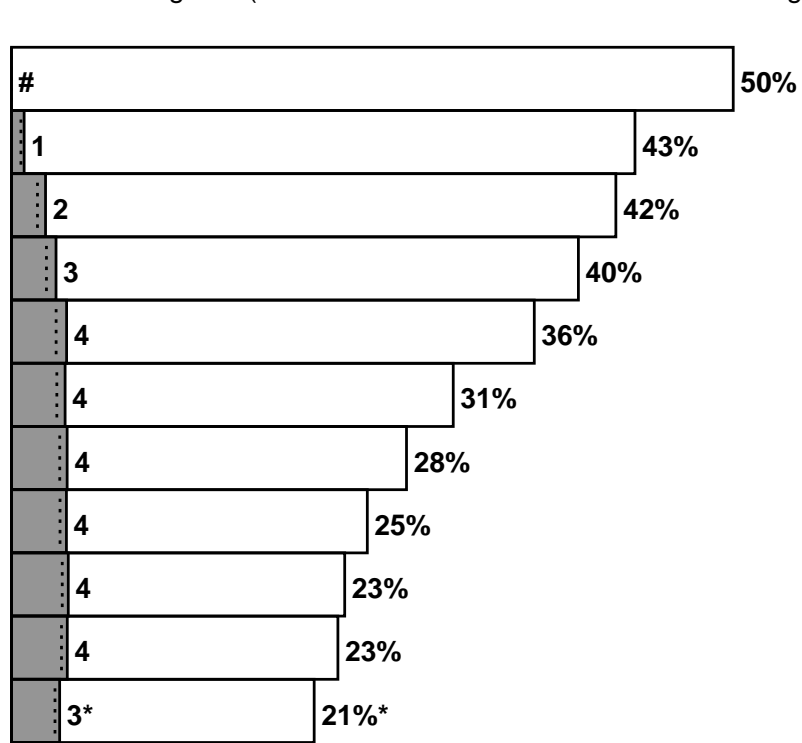
1950-2000: JAPAN

Population risk of dying at ages 0-34



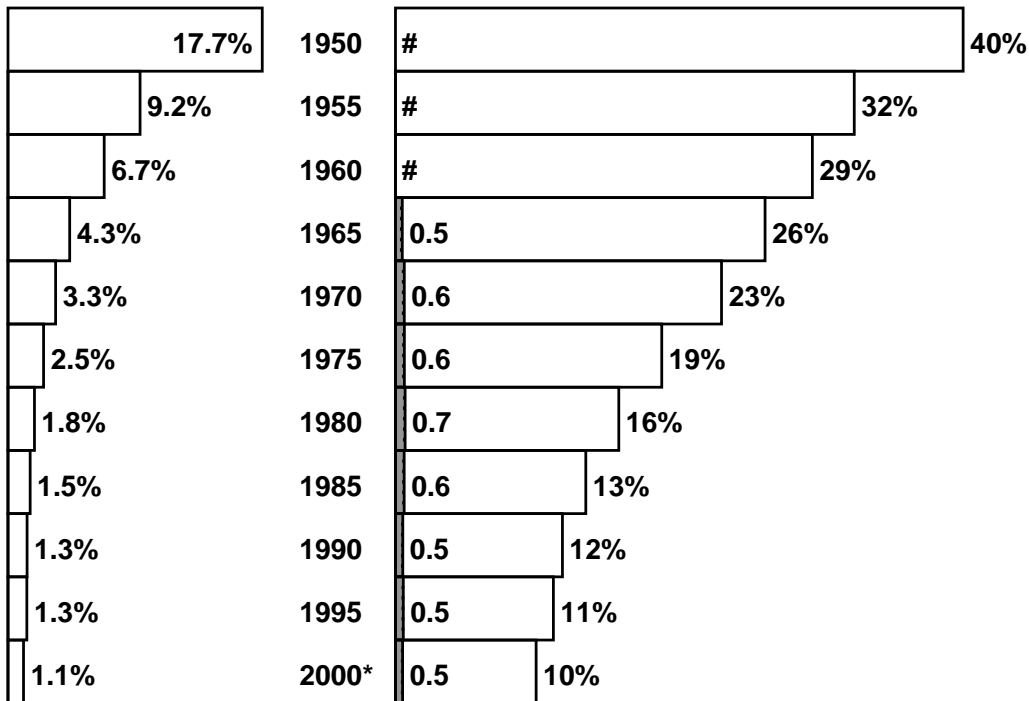
Population risk of a 35-year-old dying at ages 35-69 from smoking (shaded) or from any cause (shaded and white)

*eg, at year 2000 male death rates, out of 100 men aged 35, 21 would die before age 70 (with 3 of these deaths attributed to smoking)



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

JAPAN: 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	-/192	0.0/177 (0%)	0.0/98 (0%)	0.0/467	-/178	0.0/140	0.0/120	0.0/438
1955	-/102	2.7/156 (2%)	0.7/107 (0.7%)	3.5/365	-/84	0.0/115	0.0/129	0.0/328
1960	-/77	9.2/165 (6%)	3.4/135 (2%)	13/378	-/57	0.0/114	0.0/159	0.0/329
1965	-/56	13/169 (8%)	6.6/153 (4%)	19/379	-/37	1.9/111 (2%)	1.2/174 (0.7%)	3.2/322
1970	-/49	17/170 (10%)	12/169 (7%)	29/388	-/30	2.7/111 (2%)	2.6/185 (1%)	5.3/325
1975	-/38	18/156 (11%)	18/184 (10%)	36/378	-/24	3.1/101 (3%)	5.2/200 (3%)	8.3/324
1980	-/28	20/154 (13%)	26/209 (13%)	47/391	-/16	3.7/95 (4%)	9.7/221 (4%)	13/332
1985	-/22	22/157 (14%)	35/229 (15%)	57/408	-/12	3.8/90 (4%)	12/242 (5%)	16/345
1990	-/19	27/168 (16%)	42/257 (16%)	68/444	-/10	3.6/88 (4%)	16/278 (6%)	19/377
1995	-/18	31/188 (16%)	53/296 (18%)	84/501	-/9.7	4.4/91 (5%)	20/320 (6%)	25/421
2000	-/15	29/184 (16%)	61/327 (19%)	90/526	-/8.1	4.2/85 (5%)	20/343 (6%)	24/436

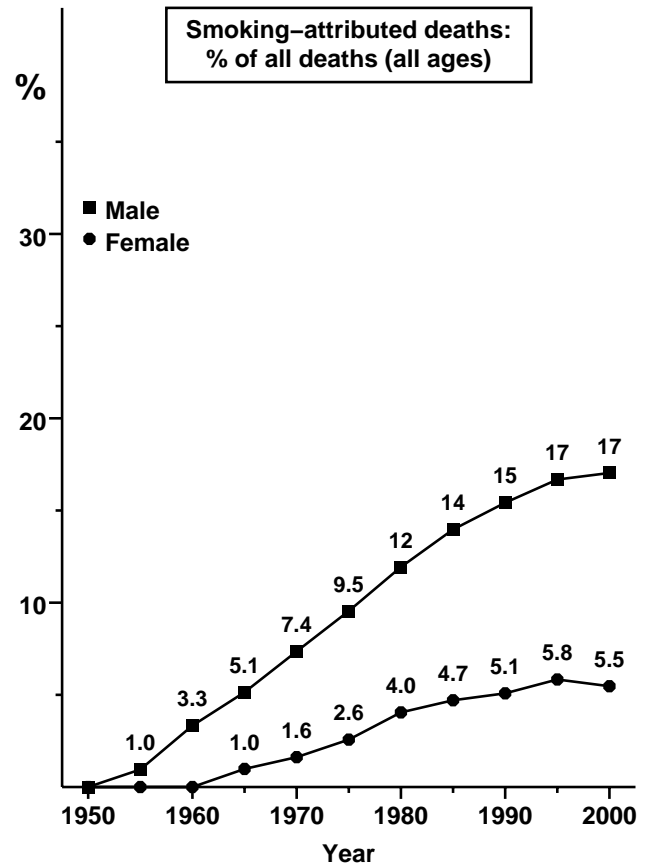
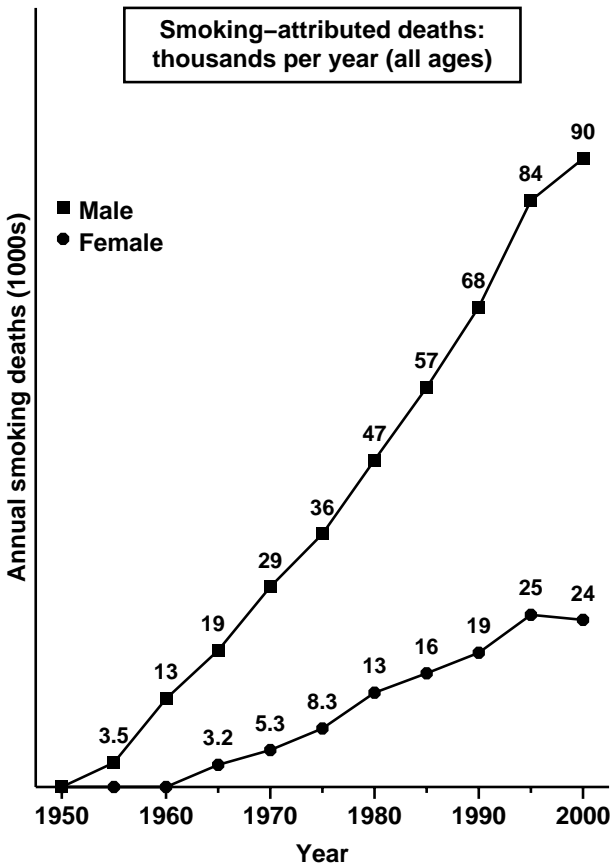
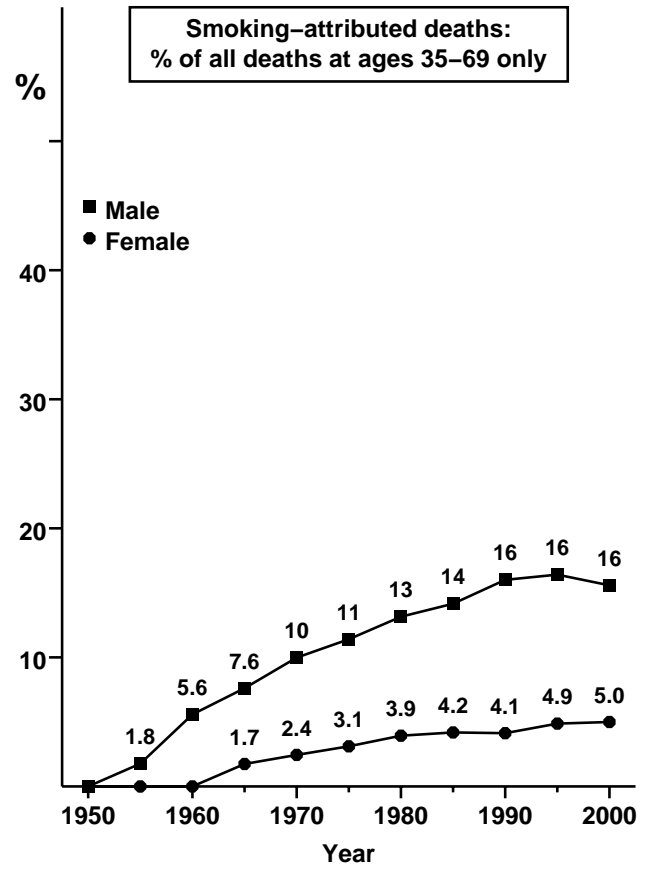
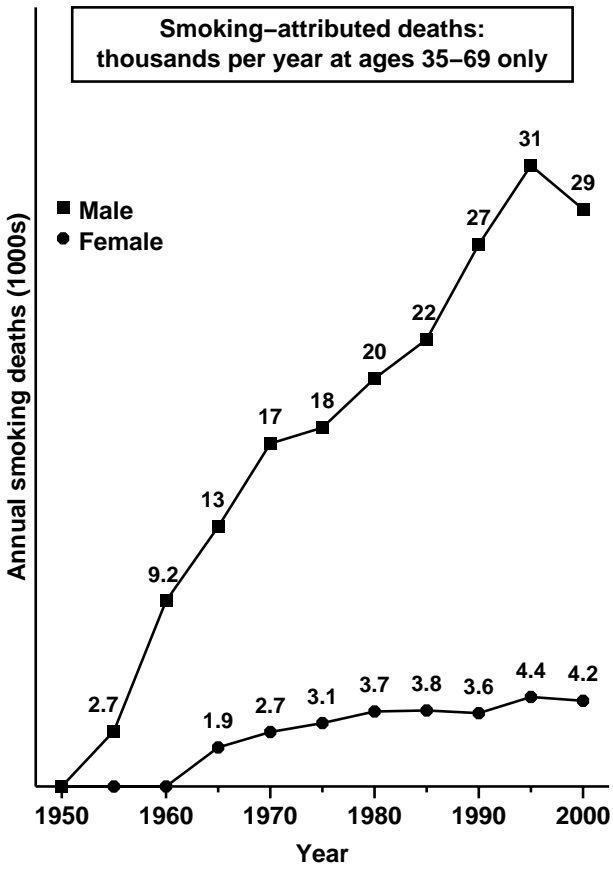
50-year total* (M=millions), mid-1950 to mid-2000: 2.5/ 38M

1950-2000 by age & sex:

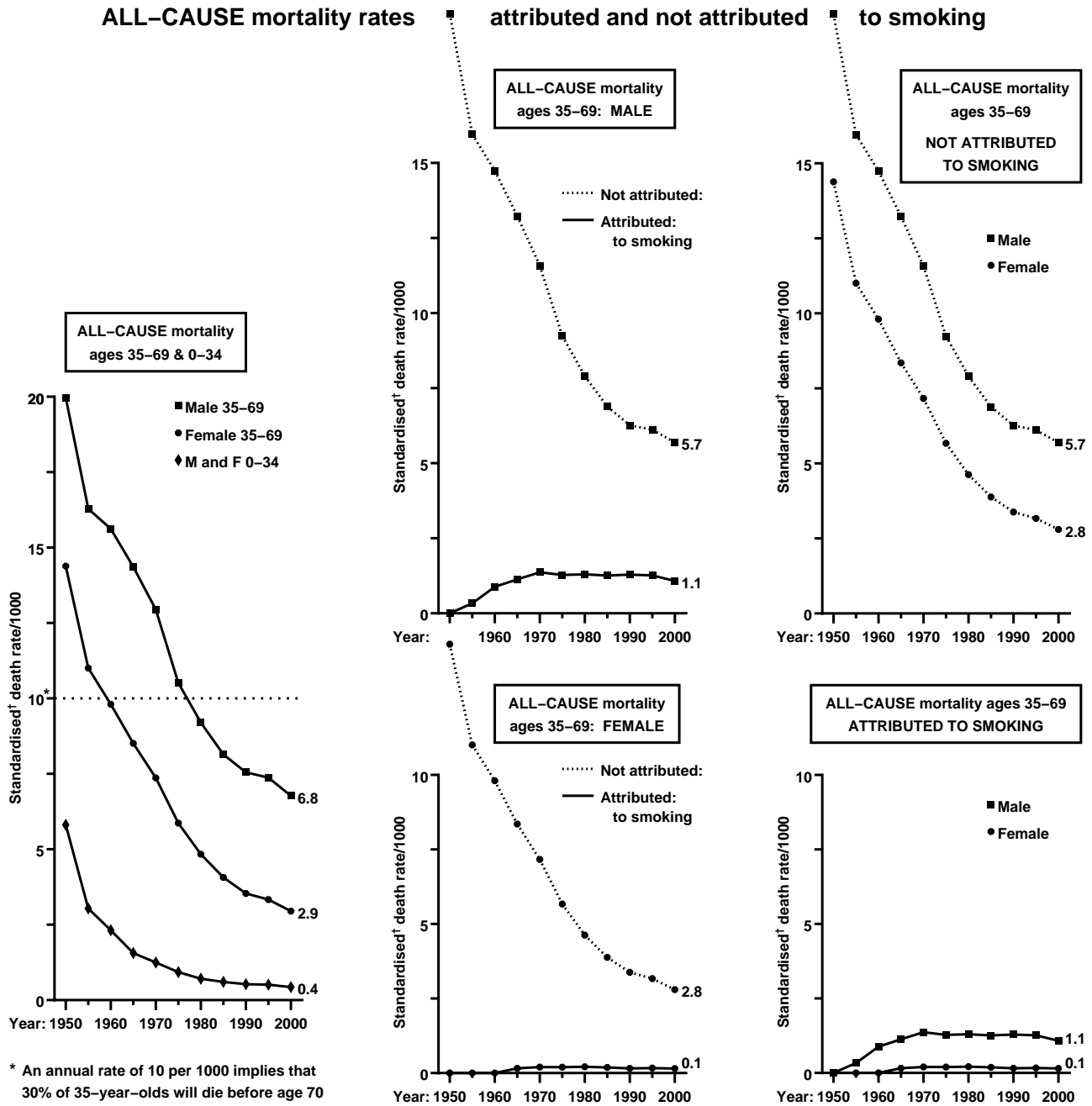
-/2.4M	0.9/8.3M (10%)	1.1/9.7M (12%)	2.0/20M	-/1.7M	0.1/5.1M (3%)	0.4/11M (4%)	0.5/17M
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*Estimated as 10 times the sum of the annual numbers for 1955, 1965, 1975, 1985 & 1995

1950-2000: JAPAN



JAPAN: 1950-2000



* An annual rate of 10 per 1000 implies that 30% of 35-year-olds will die before age 70

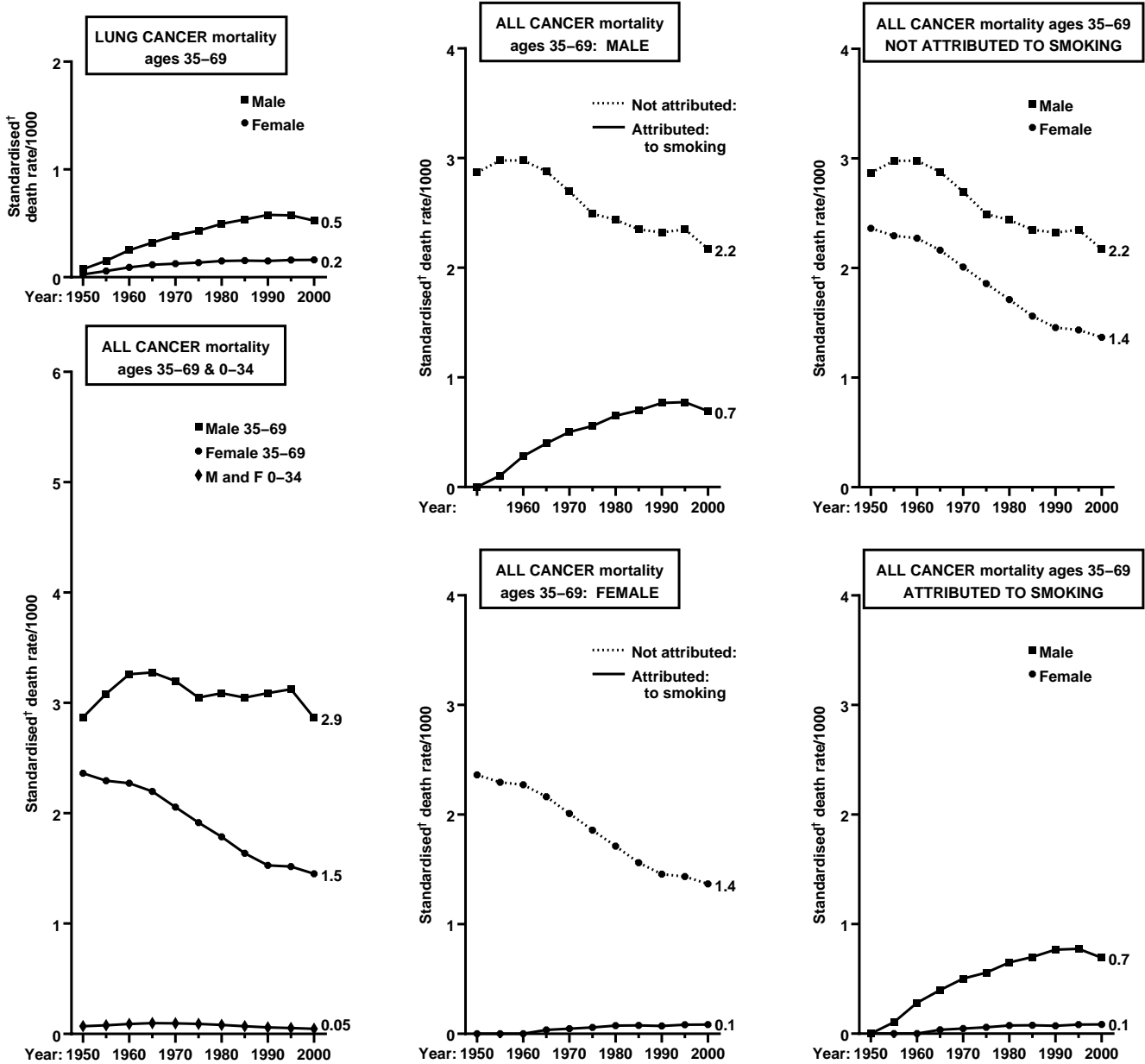
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

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		0-34		35-69		70-79	
	Attributed to smoking?		Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
1950	-	6.04	0.00	20.0	0.00	96.0	-	5.57	0.00	14.4	0.00	71.1	-	5.57	0.00	14.4	0.00	71.1
1955	-	3.31	0.33	16.0	0.61	86.4	-	2.76	0.00	11.0	0.00	62.8	-	2.76	0.00	11.0	0.00	62.8
1960	-	2.64	0.88	14.7	2.37	88.0	-	1.98	0.00	9.80	0.00	63.8	-	1.98	0.00	9.80	0.00	63.8
1965	-	1.86	1.13	13.2	4.00	83.4	-	1.26	0.16	8.35	0.50	58.3	-	1.26	0.16	8.35	0.50	58.3
1970	-	1.52	1.36	11.6	5.73	73.1	-	0.96	0.20	7.16	0.84	51.1	-	0.96	0.20	7.16	0.84	51.1
1975	-	1.13	1.28	9.24	7.29	59.7	-	0.72	0.20	5.67	1.30	42.2	-	0.72	0.20	5.67	1.30	42.2
1980	-	0.88	1.30	7.90	8.34	51.5	-	0.53	0.21	4.62	1.84	34.5	-	0.53	0.21	4.62	1.84	34.5
1985	-	0.76	1.26	6.88	8.58	42.0	-	0.44	0.19	3.88	1.70	27.1	-	0.44	0.19	3.88	1.70	27.1
1990	-	0.67	1.29	6.26	8.40	37.2	-	0.38	0.15	3.38	1.62	22.9	-	0.38	0.15	3.38	1.62	22.9
1995	-	0.64	1.26	6.11	8.70	34.1	-	0.38	0.16	3.17	1.52	20.1	-	0.38	0.16	3.17	1.52	20.1
2000	-	0.55	1.08	5.69	7.95	29.7	-	0.31	0.15	2.80	1.15	16.5	-	0.31	0.15	2.80	1.15	16.5

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

1950-2000: JAPAN

ALL CANCER mortality rates attributed and not attributed to smoking



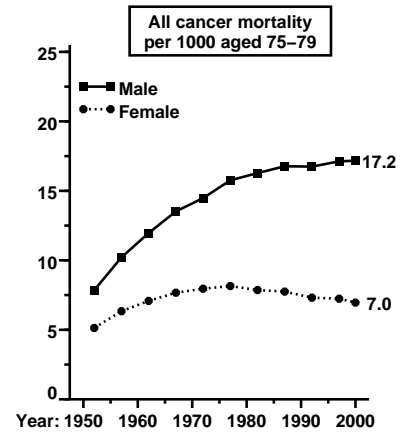
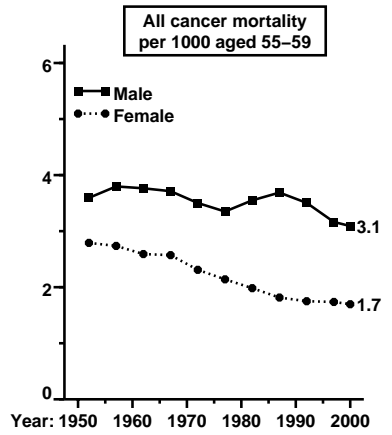
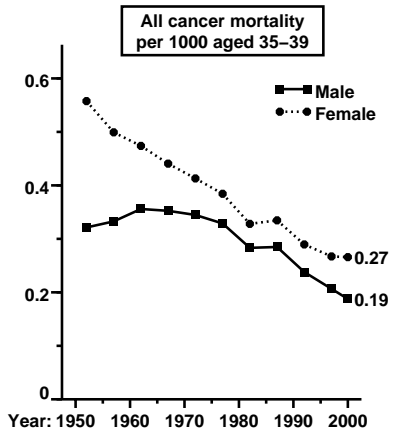
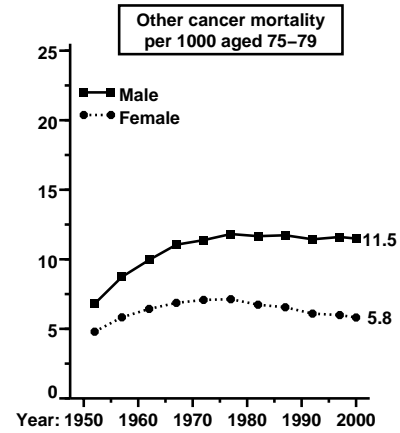
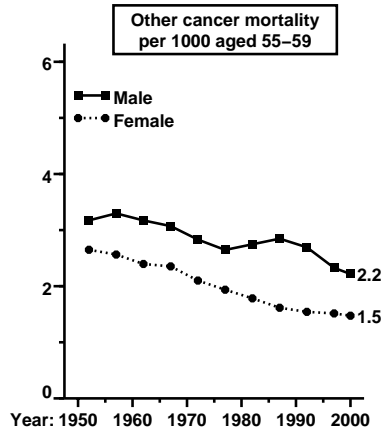
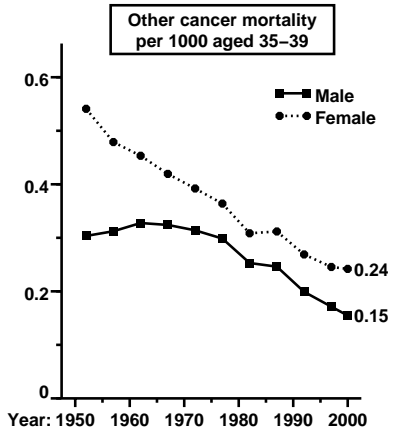
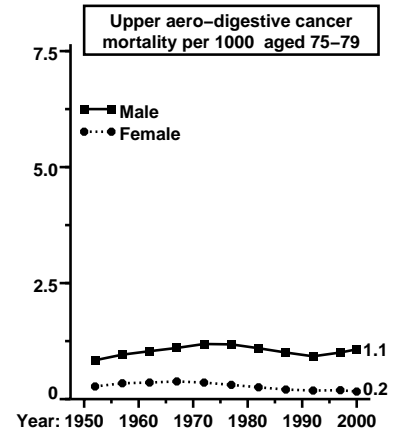
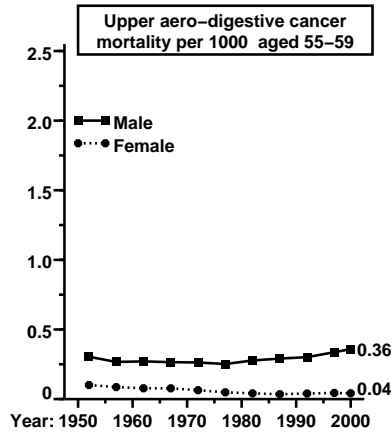
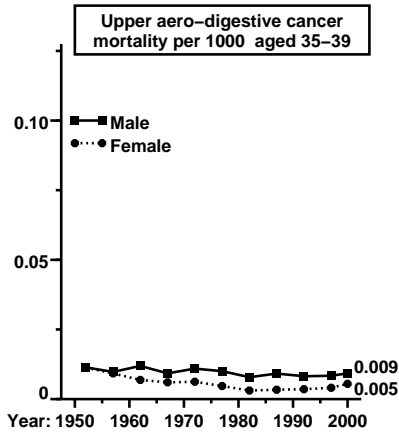
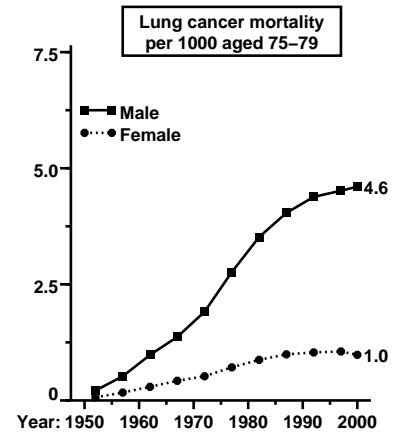
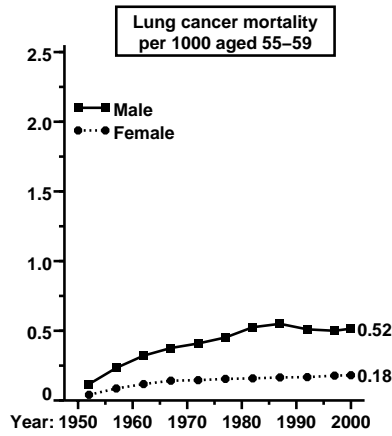
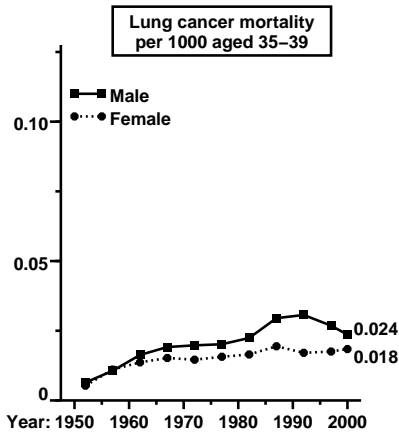
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

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	-	0.06	0.00	2.87	0.00	7.41	-	0.08	0.00	2.36	0.00	4.70	-	0.08	0.00	5.87
1955	-	0.07	0.10	2.98	0.17	9.22	-	0.08	0.00	2.29	0.00	6.67	-	0.09	0.00	6.67
1960	-	0.09	0.28	2.98	0.74	10.5	-	0.10	0.03	2.16	0.10	6.87	-	0.09	0.05	6.91
1965	-	0.10	0.40	2.88	1.35	10.9	-	0.10	0.03	2.16	0.10	6.87	-	0.09	0.05	6.91
1970	-	0.10	0.50	2.70	1.91	10.8	-	0.09	0.03	2.16	0.10	6.87	-	0.09	0.05	6.91
1975	-	0.09	0.56	2.49	2.90	10.6	-	0.09	0.06	1.86	0.32	6.68	-	0.09	0.06	6.68
1980	-	0.08	0.65	2.44	3.84	10.6	-	0.08	0.07	1.71	0.57	6.60	-	0.08	0.07	6.60
1985	-	0.07	0.70	2.35	4.41	10.1	-	0.07	0.08	1.56	0.62	6.13	-	0.07	0.08	6.13
1990	-	0.06	0.77	2.32	4.62	9.58	-	0.06	0.07	1.46	0.67	5.70	-	0.06	0.07	5.70
1995	-	0.06	0.77	2.35	5.03	10.1	-	0.05	0.08	1.43	0.68	5.55	-	0.05	0.08	5.55
2000	-	0.05	0.69	2.17	5.05	9.85	-	0.04	0.08	1.37	0.60	5.29	-	0.04	0.08	5.29

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

JAPAN: 1950-2000

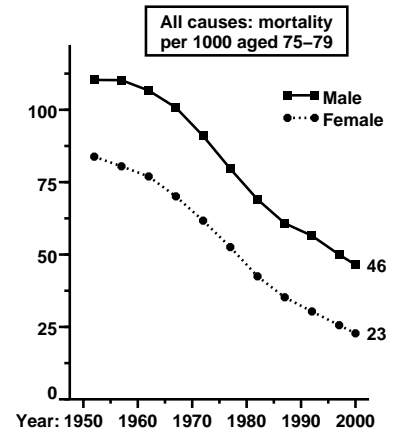
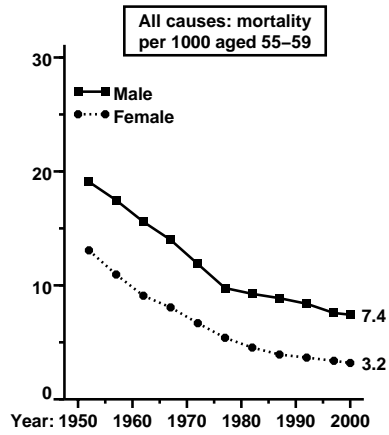
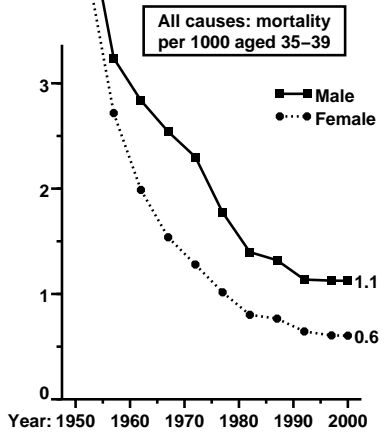
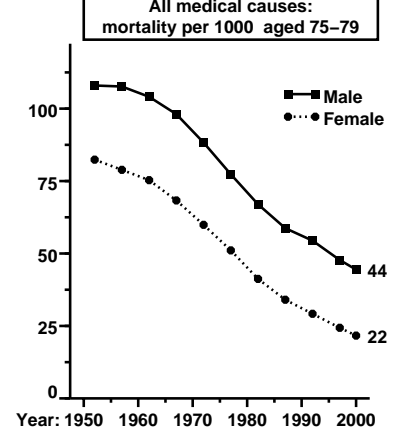
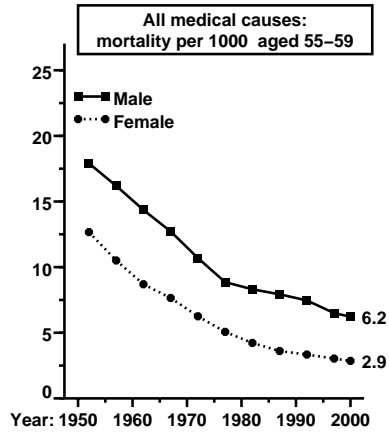
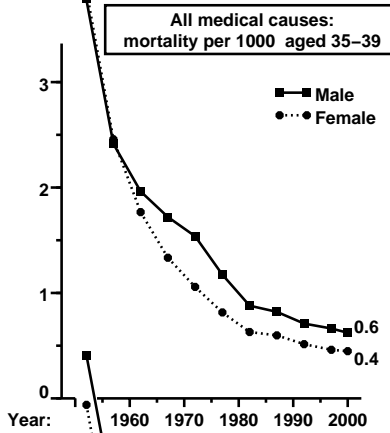
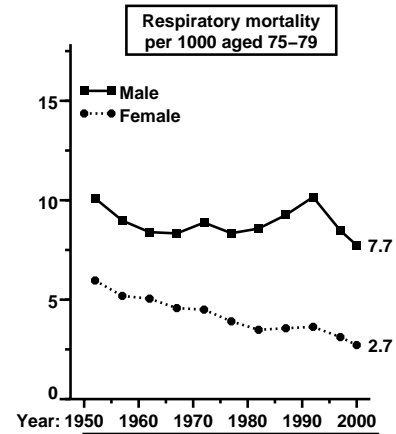
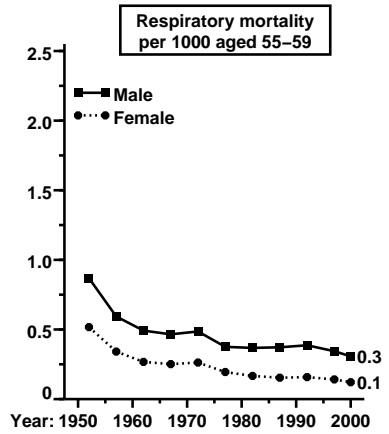
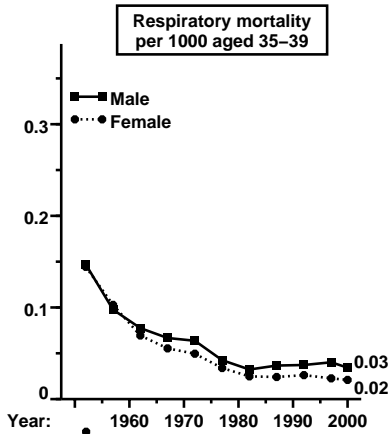
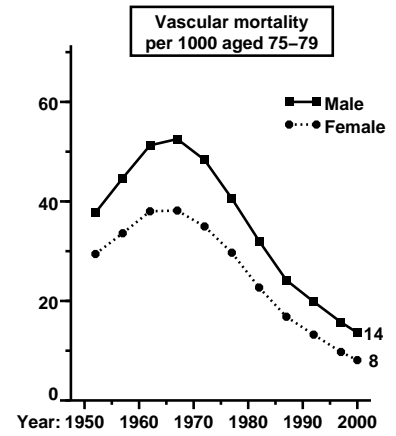
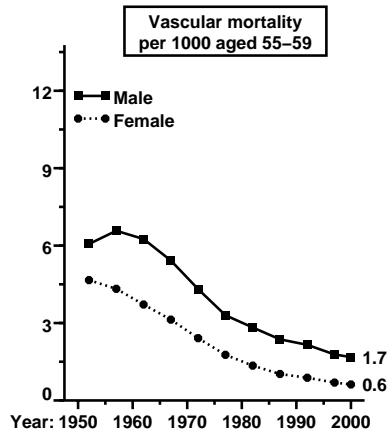
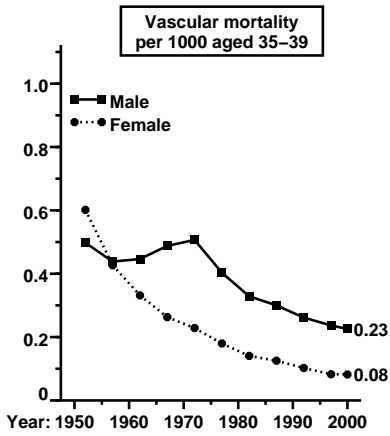
Mortality* trends at selected ages: 35-39, 55-59 & 75-79



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

1950-2000: JAPAN

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