

**MORTALITY FROM SMOKING
IN DEVELOPED COUNTRIES
1950–2005 (or later)**

(see also www.deathsfromsmoking.net)

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NEW ZEALAND

Raw data (pages 368–69, 370–71)

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(revised March 2012)

NEW ZEALAND: 2007

		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	14333	806	4256	641.0	78.8	586.4	144.0	15.7	17.6	75.2	101.4	90.1	107.3
	F	14268	467	2975	463.2	45.7	394.8	123.2	10.7	17.9	41.3	38.3	32.7	55.8
Tuberculosis	M	10	-	1	0.4	-	0.1	-	-	-	-	-	-	-
	F	6	-	2	0.2	-	0.3	-	-	-	-	-	-	-
Other infective and parasitic	M	91	11	26	4.1	1.1	3.1	5.3	0.7	-	-	0.7	0.8	-
	F	107	7	20	3.4	0.7	2.4	2.1	-	0.7	-	-	-	2.0
ALL CANCER	M	4477	72	1666	204.5	7.2	241.2	3.3	2.7	5.0	4.4	7.8	11.6	15.5
	F	3940	73	1591	151.3	7.1	211.9	5.6	1.4	2.7	8.4	3.4	6.7	21.5
Mouth and pharynx cancer	M	81	-	44	3.9	-	6.3	-	-	-	-	-	-	-
	F	42	1	12	1.5	0.1	1.6	-	-	-	-	-	-	0.7
Oesophagus cancer	M	164	-	67	7.6	-	9.6	-	-	-	-	-	-	-
	F	80	-	18	2.5	-	2.6	-	-	-	-	-	-	-
Stomach cancer	M	184	2	72	8.4	0.2	9.9	-	-	-	-	0.7	-	0.7
	F	113	2	57	4.6	0.2	6.9	-	-	-	-	-	-	1.3
Colorectal cancer	M	644	6	245	29.6	0.6	36.8	-	-	-	-	0.7	3.9	-
	F	609	2	199	22.2	0.2	28.1	-	-	-	-	-	-	1.3
Liver cancer	M	97	-	65	4.6	-	8.5	-	-	-	-	-	-	-
	F	20	-	11	0.8	-	1.5	-	-	-	-	-	-	-
Pancreas cancer	M	212	-	94	9.9	-	13.6	-	-	-	-	-	-	-
	F	216	1	83	8.2	0.1	11.6	-	-	-	-	-	-	0.7
Larynx cancer	M	31	-	13	1.4	-	1.8	-	-	-	-	-	-	-
	F	6	-	1	0.2	-	0.1	-	-	-	-	-	-	-
Lung cancer	M	864	1	359	40.1	0.1	53.0	-	-	-	-	-	0.8	-
	F	664	3	304	26.8	0.3	42.9	-	-	-	-	-	-	2.0
Malignant melanoma	M	178	4	86	8.2	0.4	11.7	-	-	-	-	0.7	0.8	1.5
	F	114	2	50	4.3	0.2	6.1	-	-	-	-	-	-	1.3
Female breast cancer	F	643	11	373	26.7	1.1	45.7	-	-	-	-	-	2.2	5.4
Cervix cancer	F	65	4	36	2.7	0.4	4.1	-	-	-	-	-	0.7	2.0
Other uterine cancer	F	97	1	38	3.9	0.1	5.1	-	-	-	-	-	-	0.7
Ovarian cancer	F	208	4	98	8.5	0.4	13.5	-	-	-	-	-	-	2.7
Prostate cancer	M	575	-	107	24.8	-	16.9	-	-	-	-	-	-	-
Bladder cancer	M	118	-	34	5.2	-	5.3	-	-	-	-	-	-	-
	F	51	1	8	1.6	0.1	0.9	-	-	-	0.6	-	-	-
Other and ill-defined cancer sites	M	868	39	328	39.7	3.9	46.1	1.3	1.4	4.4	1.9	3.9	3.1	11.1
	F	650	28	201	23.6	2.7	27.2	2.1	1.4	2.0	6.5	3.4	1.5	2.0
Hodgkin's disease	M	18	1	9	0.8	0.1	1.1	-	-	-	-	-	-	0.7
	F	5	1	-	0.2	0.1	-	-	-	-	-	-	0.7	-
Myeloma and non-Hodgkin lymphomas	M	271	4	98	12.4	0.4	13.8	-	0.7	-	-	0.7	1.5	-
	F	223	4	61	8.0	0.4	8.5	1.4	-	-	-	-	-	1.3
Leukaemia	M	172	15	45	7.8	1.4	6.8	2.0	0.7	0.6	2.5	1.3	1.5	1.5
	F	134	8	41	4.9	0.8	5.5	2.1	-	0.7	1.3	-	1.5	-
Diabetes	M	440	1	171	20.2	0.1	23.7	-	-	-	0.6	-	-	-
	F	407	3	107	14.0	0.3	15.1	-	-	-	0.6	-	0.7	0.7
ALL VASCULAR DISEASE	M	5018	34	1316	220.1	3.5	182.8	2.7	-	0.6	0.6	2.0	7.7	11.1
	F	5464	18	558	155.1	1.7	76.7	1.4	0.7	0.7	3.2	-	1.5	4.7
Rheumatic heart disease and fever	M	84	3	25	3.8	0.3	3.3	-	-	-	-	1.3	-	0.7
	F	115	3	48	4.3	0.3	6.5	-	-	-	-	-	0.7	1.3
Hypertensive disease	M	126	-	23	5.4	-	3.4	-	-	-	-	-	-	-
	F	186	-	17	5.3	-	2.7	-	-	-	-	-	-	-
Ischaemic heart disease	M	3015	9	900	133.5	1.0	124.5	-	-	-	-	-	0.8	5.9
	F	2619	1	254	74.4	0.1	36.2	-	-	-	-	-	-	0.7
Pulmonary embolism and other venous	M	17	-	12	0.8	-	1.6	-	-	-	-	-	-	-
	F	29	2	10	1.1	0.2	1.4	-	-	-	-	-	0.7	0.7
Cerebrovascular disease	M	986	5	164	42.1	0.5	23.3	0.7	-	-	0.6	0.7	0.8	0.7
	F	1638	4	137	45.4	0.4	17.9	-	0.7	-	1.3	-	-	0.7
Other vascular disease	M	790	17	192	34.5	1.8	26.8	2.0	-	0.6	-	-	6.2	3.7
	F	877	8	92	24.6	0.8	12.1	1.4	-	0.7	1.9	-	-	1.3
Chronic obstructive pulmonary disease	M	848	6	137	36.5	0.6	21.0	1.3	1.4	-	0.6	-	0.8	-
	F	800	5	154	26.7	0.5	22.5	0.7	-	0.7	-	0.7	0.7	0.7
Other respiratory disease	M	300	11	37	12.6	1.1	5.1	6.0	0.7	-	-	-	-	0.7
	F	393	11	25	10.6	1.1	3.1	7.7	-	-	-	-	-	-
Peptic ulcer	M	38	1	18	1.8	0.1	2.5	-	-	-	-	0.7	-	-
	F	39	-	5	1.2	-	0.9	-	-	-	-	-	-	-
Liver cirrhosis	M	82	-	60	4.0	-	7.9	-	-	-	-	-	-	-
	F	48	-	31	2.0	-	4.1	-	-	-	-	-	-	-
Renal disease	M	166	1	15	6.8	0.1	2.4	-	-	-	-	-	0.8	-
	F	171	1	18	4.7	0.1	2.5	-	-	-	-	-	0.7	-
Pregnancy, birth	F	13	9	4	0.6	0.9	0.4	-	-	-	-	2.0	0.7	3.4
Congenital and perinatal causes	M	162	129	26	8.3	12.3	2.9	73.7	0.7	1.3	2.5	3.3	3.1	1.5
	F	148	107	25	7.5	10.6	2.9	64.7	2.1	2.7	1.3	2.7	-	0.7
Ill-defined causes	M	49	31	6	2.4	3.0	0.6	18.6	-	-	-	-	0.8	1.5
	F	41	20	5	1.7	2.0	0.5	10.4	-	-	0.6	1.3	1.5	-
Other medical causes	M	1464	51	291	63.3	4.9	39.5	5.3	4.1	2.5	5.6	8.5	2.3	5.9
	F	2044	53	235	59.7	5.2	30.8	11.8	2.1	4.0	1.9	4.0	5.9	6.7
ALL NON-MEDICAL CAUSES	M	1188	458	486	56.0	44.9	53.5	27.9	5.4	8.2	60.9	78.5	62.4	71.1
	F	647	160	195	24.5	15.5	20.6	18.8	4.3	6.6	25.2	24.2	14.1	15.5
Road traffic accidents	M	286	162	96	13.5	15.6	10.3	5.3	2.0	3.1	29.2	33.4	17.7	18.5
	F	150	71	52	6.6	6.9	5.8	2.1	2.9	4.6	13.6	12.1	6.7	6.1
Fire	M	13	6	2	0.6	0.6	0.2	0.7	1.4	-	1.2	-	-	0.7
	F	5	-	1	0.2	-	0.1	-	-	-	-	-	-	-
Suicide	M	375	151	192	18.1	15.1	20.6	-	-	0.6	18.0	26.8	27.0	33.3
	F	118	38	73	5.3	3.7	7.3	-	-	0.7	7.8	7.4	4.5	5.4
POPULATION:			M=male		2074.7	1035.3	880.8	150.7	146.9	159.0	160.9	152.9	129.8	135.1
(1000s; UN, 2010 revision)			F=female		2157.9	1021.6	929.0	143.7	140.1	150.8	154.8	148.8	134.7	148.7

2007: NEW ZEALAND

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			
139.6	168.3	267.0	406.2	586.5	935.7	1601.3	2609.9	4591.9	10805.1	M	ALL CAUSES	001-999/A00-Y89
83.3	128.5	149.6	267.7	414.1	609.0	1111.5	1632.9	2954.0	9386.4	F		
-	-	-	-	0.8	-	-	3.3	6.4	7.8	M	Tuberculosis	010-018, 137/ A15-A19, B90
0.6	-	-	-	-	-	1.3	1.5	1.8	2.3	F		
1.4	2.0	2.6	2.3	5.8	5.0	2.6	16.5	10.7	76.0	M	Other infective and parasitic	Rest of 001-139,279.5&.6/ rest of A00-B99 excl A33,A34
-	3.0	2.5	1.5	0.8	3.9	5.0	10.6	16.5	73.8	F		
19.7	36.0	78.2	136.2	228.2	449.8	740.4	1014.9	1662.4	2625.7	M	ALL CANCER	140-208/C00-C97
33.6	58.2	82.2	152.9	224.6	348.0	584.0	710.0	1038.6	1431.4	F		
0.7	-	3.2	3.8	4.9	14.1	17.2	23.1	23.5	23.4	M	Mouth and pharynx cancer	140-149/C00-C14
-	-	1.2	2.2	0.8	1.0	6.3	9.1	7.4	21.9	F		
0.7	1.3	5.2	5.4	6.6	19.1	29.1	47.9	55.6	81.9	M	Oesophagus cancer	150/C15
-	0.6	-	0.7	3.2	5.9	7.5	7.6	16.5	55.4	F		
1.4	3.3	2.6	6.9	13.2	17.1	25.2	46.3	64.1	101.4	M	Stomach cancer	151/C16
5.6	3.0	2.5	6.7	5.6	14.7	10.0	19.6	31.3	27.7	F		
1.4	4.6	11.6	13.1	26.4	72.3	128.5	160.3	252.1	347.0	M	Colorectal cancer	153, 154/C18-C21
4.4	6.1	5.6	14.9	24.8	42.0	99.0	102.7	204.0	264.1	F		
0.7	2.0	7.8	8.5	10.7	11.0	18.5	13.2	32.1	17.5	M	Liver cancer	155.0/C22 excl C221
-	0.6	1.2	-	1.6	1.0	6.3	1.5	5.5	5.8	F		
-	2.0	2.6	10.8	14.0	26.1	39.7	52.9	66.2	107.2	M	Pancreas cancer	157/C25
-	4.2	1.9	4.5	15.2	17.6	37.6	42.3	57.0	84.2	F		
-	-	0.6	-	4.9	3.0	4.0	5.0	12.8	17.5	M	Larynx cancer	161/C32
-	-	-	-	0.8	-	-	1.5	7.4	-	F		
2.7	3.3	12.3	29.2	52.7	101.4	169.5	223.1	331.2	417.2	M	Lung cancer	162/C33, C34
1.9	4.8	13.0	17.2	45.6	80.2	137.8	152.6	185.7	178.8	F		
2.7	3.3	2.6	10.0	15.7	20.1	27.8	26.4	49.1	95.5	M	Malignant melanoma	172/C43
2.5	2.4	3.1	6.0	8.0	10.8	10.0	12.1	27.6	45.0	F		
10.6	20.6	31.5	51.5	51.2	65.5	89.0	104.2	104.8	153.4	F	Female breast cancer	174/C50
3.1	4.2	0.6	4.5	4.0	9.8	2.5	9.1	7.4	17.3	F	Cervix cancer	180/C53
0.6	-	1.9	3.0	8.0	8.8	13.8	28.7	27.6	27.7	F	Other uterine cancer	179, 182/C54, C55
0.6	-	3.7	9.7	16.8	27.4	36.3	42.3	60.7	51.9	F	Ovarian cancer	183/C56, C570-C574
-	-	1.3	3.8	14.0	34.1	64.9	94.2	267.1	557.5	M	Prostate cancer	185/C61
0.7	-	-	0.8	7.4	7.0	21.2	16.5	53.4	95.5	M	Bladder cancer	188/C67
0.6	0.6	0.6	1.5	0.8	-	2.5	4.5	20.2	32.3	F		
6.8	12.4	20.7	30.8	36.2	84.3	131.1	180.2	277.8	510.7	M	Other and ill-defined cancer sites	Rest of 140-199/ rest of C00-C80, C97
2.5	7.9	11.7	17.9	23.2	46.9	80.2	108.8	159.9	302.2	F		
0.7	-	2.6	-	-	3.0	1.3	6.6	2.1	5.8	M	Hodgkin's disease	201/C81
-	-	-	-	-	-	-	1.5	3.7	1.2	F		
1.4	3.3	1.9	11.5	15.7	27.1	35.8	74.4	106.8	144.2	M	Myeloma and non-Hodgkin lymphomas	200, 202-203/ C82-C90, C96
-	0.6	1.2	8.9	10.4	11.7	26.3	40.8	75.4	103.8	F		
-	0.7	3.2	1.5	5.8	10.0	26.5	44.6	68.4	103.3	M	Leukaemia	204-208/C91-C95
1.2	2.4	2.5	3.7	4.8	4.9	18.8	21.1	36.8	58.8	F		
2.0	4.6	8.4	24.6	25.5	36.1	64.9	110.7	170.9	235.9	M	Diabetes	250/E10-E14
0.6	3.6	2.5	6.0	20.0	20.5	52.6	66.5	102.9	227.2	F		
25.2	45.8	77.6	133.1	204.3	286.1	507.3	915.7	1626.1	4586.7	M	ALL VASCULAR DISEASE	390-459/I00-I99
9.3	23.0	21.6	49.2	71.1	113.4	249.4	471.3	998.2	4651.7	F		
2.7	1.3	1.3	2.3	2.5	5.0	7.9	26.4	19.2	60.4	M	Rheumatic heart disease and fever	390-398/I00-I09
2.5	1.2	0.6	4.5	8.0	8.8	20.1	18.1	16.5	49.6	F		
-	1.3	1.9	0.8	1.6	6.0	11.9	23.1	44.9	132.6	M	Hypertensive disease	401-405/I10-I15
-	0.6	-	-	1.6	3.9	12.5	22.7	31.3	158.0	F		
16.3	28.2	52.4	100.0	145.0	191.8	337.7	565.3	961.5	2561.4	M	Ischaemic heart disease	410-414/I20-I25
1.9	6.1	9.9	19.4	30.4	57.7	127.8	256.8	487.1	2224.9	F		
-	0.7	0.6	2.3	1.6	3.0	2.6	1.7	2.1	5.8	M	Pulmonary embolism and other venous	415.1, 451-453/ I26, I80-I82
-	0.6	1.2	0.7	-	2.0	5.0	6.0	5.5	11.5	F		
2.0	6.5	5.8	13.1	27.2	42.2	66.2	168.6	363.2	1062.4	M	Cerebrovascular disease	430-438/I60-I69
2.5	8.5	6.2	15.7	19.2	24.4	48.9	111.8	325.4	1437.1	F		
4.1	7.9	15.5	14.6	26.4	38.2	80.8	130.6	235.0	764.1	M	Other vascular disease	Rest of 390-459/ rest of I00-I99
2.5	6.1	3.7	8.9	12.0	16.6	35.1	55.9	132.4	770.5	F		
-	4.6	3.2	9.2	14.0	36.1	79.5	170.2	341.9	861.6	M	Chronic obstructive pulmonary disease	490-496/ J40-J47, J67
1.2	3.6	1.9	9.7	19.2	38.1	84.0	148.0	251.8	468.3	F		
0.7	1.3	0.6	3.8	9.1	7.0	13.2	29.8	96.2	368.4	M	Other respiratory disease	Rest of 460-519/ rest of J00-J98
1.9	1.8	2.5	2.2	2.4	2.0	8.8	13.6	44.1	373.7	F		
-	-	1.9	2.3	3.3	2.0	7.9	6.6	6.4	23.4	M	Peptic ulcer	531-533/K25-K27
-	-	-	-	-	-	6.3	4.5	11.0	28.8	F		
0.7	1.3	7.1	6.9	9.1	13.1	17.2	9.9	12.8	19.5	M	Liver cirrhosis	571/K70, K74
1.2	1.8	1.9	1.5	3.2	6.8	12.5	4.5	12.9	8.1	F		
0.7	-	0.6	2.3	-	1.0	11.9	16.5	34.2	241.7	M	Renal disease	580-590/N00-N19
-	-	1.9	0.7	0.8	6.8	7.5	6.0	27.6	153.4	F		
1.9	0.6	-	-	-	-	-	-	-	-	F	Pregnancy, birth	630-676/A34,000-099
3.4	2.6	3.9	3.1	2.5	1.0	4.0	1.7	4.3	7.8	M	Congenital and perinatal causes	740-779/A33, P00-P96, Q00-Q99
1.9	1.2	3.7	1.5	2.4	4.9	5.0	6.0	9.2	8.1	F		
-	-	1.3	2.3	0.8	-	-	3.3	6.4	13.6	M	Ill-defined causes	780-799/R00-R99
-	1.8	-	0.7	-	1.0	-	-	-	18.5	F		
8.8	14.4	22.0	27.7	37.9	61.2	104.6	243.0	500.0	1444.4	M	Other medical causes	Rest of 001-799/ rest of A00-R99
6.2	9.7	12.4	19.4	39.2	48.9	80.2	152.6	389.7	1664.4	F		
76.9	55.7	59.5	52.3	45.3	37.1	47.7	67.8	113.2	292.4	M	ALL NON-MEDICAL CAUSES	E800-E999/V01-Y89
24.9	20.0	16.7	22.4	30.4	14.7	15.0	37.8	49.6	276.8	F		
17.0	12.4	14.9	9.2	3.3	7.0	7.9	14.9	15.0	23.4	M	Road traffic accidents	E810-E819, E826-E829/ part of V01-V99, Y850
5.0	3.0	5.6	6.0	8.8	4.9	7.5	9.1	9.2	18.5	F		
1.4	-	-	-	-	-	-	1.7	2.1	5.8	M	Fire	E890-E899/X00-X09
-	-	-	-	0.8	-	-	1.5	1.8	2.3	F		
31.3	23.6	24.6	22.3	16.5	13.1	13.2	14.9	21.4	25.3	M	Suicide	E950-E959/X60-X84
9.3	10.9	5.6	9.7	8.8	6.8	-	-	-	8.1	F		
146.9	152.7	154.7	130.0	121.4	99.6	75.5	60.5	46.8	51.3	M	POPULATION	
160.9	165.0	161.8	134.1	125.1	102.3	79.8	66.2	54.4	86.7	F	(1000s; UN, 2010 revision)	

NEW ZEALAND: 2000, 2007

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
2000												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	960	66	0	0	66	7	10	49	0	297	531
35-69	Sm.	909	463	312	58	93	113	7	247	-	79	-
	Total	4198 (22%)	1574 (29%)	363 (86%)	124 (47%)	1087 (9%)	174 (65%)	33 (21%)	1470 (17%)	43	473 (17%)	431
70+	Sm.	1630	692	438	68	186	461	16	346	-	115	-
	Total	8655 (19%)	2480 (28%)	497 (88%)	130 (52%)	1853 (10%)	686 (67%)	182 (9%)	3830 (9%)	24	1290 (9%)	163
Any age	Sm.	2539	1155	750	126	279	574	23	593	-	194	-
	Total	13813 (18%)	4120 (28%)	860 (87%)	254 (50%)	3006 (9%)	867 (66%)	225 (10%)	5349 (11%)	67	2060 (9%)	1125
2007												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	806	72	1	0	71	6	11	34	0	225	458
35-69	Sm.	766	431	298	52	81	81	5	175	-	74	-
	Total	4256 (18%)	1666 (26%)	359 (83%)	124 (42%)	1183 (7%)	137 (59%)	37 (14%)	1316 (13%)	60	554 (13%)	486
70+	Sm.	1495	666	429	70	167	436	17	260	-	116	-
	Total	9271 (16%)	2739 (24%)	504 (85%)	152 (46%)	2083 (8%)	705 (62%)	252 (7%)	3668 (7%)	22	1641 (7%)	244
Any age	Sm.	2261	1097	727	122	248	517	22	435	-	190	-
	Total	14333 (16%)	4477 (25%)	864 (84%)	276 (44%)	3337 (7%)	848 (61%)	300 (7%)	5018 (9%)	82	2420 (8%)	1188

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, 2010 revision)													
2000	1894.2	989.0	770.9	150.3	143.1	127.3	118.6	92.4	75.3	63.9	57.2	40.3	36.8
2007	2074.7	1035.3	880.8	146.9	152.7	154.7	130.0	121.4	99.6	75.5	60.5	46.8	51.3
NUMBER OF DEATHS (Source: WHO)													
All causes													
2000	13813	960	4198	202	269	359	503	664	859	1342	1882	2297	4476
2007	14333	806	4256	205	257	413	528	712	932	1209	1579	2149	5543
Lung cancer													
2000	860	-	363	3	12	24	50	57	75	142	183	159	155
2007	864	1	359	4	5	19	38	64	101	128	135	155	214
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													
2000	762.5*	99.2*	712.6*	134.4	188.0	282.0	424.1	718.6	1140.8	2100.2	3290.2	5699.8	12163.0
2007	641.0*	78.8*	586.4*	139.6	168.3	267.0	406.2	586.5	935.7	1601.3	2609.9	4591.9	10805.1
All cancer													
2000	230.7*	6.7*	276.8*	19.3	41.2	91.9	164.4	304.1	451.5	865.4	1295.5	1928.0	2614.1
2007	204.5*	7.2*	241.2*	19.7	36.0	78.2	136.2	228.2	449.8	740.4	1014.9	1662.4	2625.7
Lung cancer													
2000	48.5*	-	65.0*	2.0	8.4	18.9	42.2	61.7	99.6	222.2	319.9	394.5	421.2
2007	40.1*	0.1*	53.0*	2.7	3.3	12.3	29.2	52.7	101.4	169.5	223.1	331.2	417.2
Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)													
2000	14.5*	-	22.1*	1.3	3.5	2.4	16.0	23.8	37.2	70.4	83.9	96.8	116.8
2007	12.9*	-	17.7*	1.4	1.3	9.0	9.2	16.5	36.1	50.3	76.0	91.9	122.8
Other cancer													
2000	167.7*	6.7*	189.8*	16.0	29.4	70.7	106.2	218.6	314.7	572.8	891.6	1436.7	2076.1
2007	151.6*	7.1*	170.5*	15.7	31.4	56.9	97.7	159.0	312.2	520.5	715.7	1239.3	2085.8
Chronic obstructive pulmonary disease (COPD)													
2000	47.4*	0.7*	32.9*	2.0	5.6	4.7	8.4	22.7	57.1	129.9	255.2	456.6	967.4
2007	36.5*	0.6*	21.0*	-	4.6	3.2	9.2	14.0	36.1	79.5	170.2	341.9	861.6
Other respiratory disease													
2000	12.2*	1.0*	6.0*	0.7	2.1	-	3.4	4.3	6.6	25.0	31.5	106.7	328.8
2007	12.6*	1.1*	5.1*	0.7	1.3	0.6	3.8	9.1	7.0	13.2	29.8	96.2	368.4
Vascular disease													
2000	295.4*	5.1*	255.1*	24.0	55.2	101.3	149.2	244.6	430.3	780.9	1222.0	2362.3	5921.2
2007	220.1*	3.5*	182.8*	25.2	45.8	77.6	133.1	204.3	286.1	507.3	915.7	1626.1	4586.7
Liver cirrhosis													
2000	3.9*	-	7.2*	1.3	1.4	5.5	2.5	6.5	14.6	18.8	21.0	14.9	16.3
2007	4.0*	-	7.9*	0.7	1.3	7.1	6.9	9.1	13.1	17.2	9.9	12.8	19.5
Other medical causes													
2000	112.8*	29.5*	78.5*	20.6	27.3	29.9	46.4	79.0	136.8	209.7	395.1	732.0	2089.7
2007	107.3*	21.5*	74.9*	16.3	23.6	40.7	64.6	76.6	106.4	196.0	401.7	739.3	2050.7
All non-medical causes													
2000	60.2*	56.1*	56.0*	66.5	55.2	48.7	49.7	57.4	43.8	70.4	69.9	99.3	225.5
2007	56.0*	44.9*	53.5*	76.9	55.7	59.5	52.3	45.3	37.1	47.7	67.8	113.2	292.4

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

2000, 2007: NEW ZEALAND

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
2000												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	483	69	2	2	65	4	7	29	0	208	166
35-69	Sm.	546	227	185	9	33	113	4	130	-	72	-
	Total	2834	1425	239	20	1166	167	23	677	27	375	140
		(19%)	(16%)	(77%)	(45%)	(3%)	(68%)	(17%)	(19%)		(19%)	
70+	Sm.	1259	339	245	39	55	366	17	393	-	144	-
	Total	9588	2006	305	75	1626	522	238	4865	20	1754	183
		(13%)	(17%)	(80%)	(52%)	(3%)	(70%)	(7%)	(8%)		(8%)	
Any age	Sm.	1805	566	430	48	88	479	21	523	-	216	-
	Total	12905	3500	546	97	2857	693	268	5571	47	2337	489
		(14%)	(16%)	(79%)	(49%)	(3%)	(69%)	(8%)	(9%)		(9%)	
2007												
0-34	Sm.	-	-	-	-	-	-	-	-	-	-	-
	Total	467	73	3	1	69	5	11	18	0	200	160
35-69	Sm.	582	284	236	14	34	104	3	110	-	81	-
	Total	2975	1591	304	31	1256	154	25	558	31	421	195
		(20%)	(18%)	(78%)	(45%)	(3%)	(68%)	(12%)	(20%)		(19%)	
70+	Sm.	1508	411	292	52	67	460	30	409	-	198	-
	Total	10826	2276	357	96	1823	641	357	4888	17	2355	292
		(14%)	(18%)	(82%)	(54%)	(4%)	(72%)	(8%)	(8%)		(8%)	
Any age	Sm.	2090	695	528	66	101	564	33	519	-	279	-
	Total	14268	3940	664	128	3148	800	393	5464	48	2976	647
		(15%)	(18%)	(80%)	(52%)	(3%)	(71%)	(8%)	(9%)		(9%)	

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, 2010 revision)													
2000	1964.0	979.7	795.4	159.2	148.8	130.0	119.3	93.5	77.7	66.9	63.5	53.8	71.6
2007	2157.9	1021.6	929.0	160.9	165.0	161.8	134.1	125.1	102.3	79.8	66.2	54.4	86.7
NUMBER OF DEATHS (Source: WHO)													
All causes													
2000	12905	483	2834	112	184	254	372	479	613	820	1224	1737	6627
2007	14268	467	2975	134	212	242	359	518	623	887	1081	1607	8138
Lung cancer													
2000	546	2	239	1	7	11	34	46	61	79	84	96	125
2007	664	3	304	3	8	21	23	57	82	110	101	101	155
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													
2000	501.4*	49.5*	461.2*	70.4	123.7	195.4	311.8	512.3	788.9	1225.7	1927.6	3228.6	9255.6
2007	463.2*	45.7*	394.8*	83.3	128.5	149.6	267.7	414.1	609.0	1111.5	1632.9	2954.0	9386.4
All cancer													
2000	157.9*	6.9*	229.2*	30.8	65.9	96.2	176.0	265.2	424.7	545.6	746.5	918.2	1449.7
2007	151.3*	7.1*	211.9*	33.6	58.2	82.2	152.9	224.6	348.0	584.0	710.0	1038.6	1431.4
Lung cancer													
2000	25.7*	0.2*	41.2*	0.6	4.7	8.5	28.5	49.2	78.5	118.1	132.3	178.4	174.6
2007	26.8*	0.3*	42.9*	1.9	4.8	13.0	17.2	45.6	80.2	137.8	152.6	185.7	178.8
Upper aerodigestive cancer (mouth, oesophagus, pharynx and larynx)													
2000	3.8*	0.2*	3.5*	-	0.7	-	3.4	3.2	5.1	12.0	17.3	39.0	60.1
2007	4.3*	0.1*	4.3*	-	0.6	1.2	3.0	4.8	6.8	13.8	18.1	31.3	77.3
Other cancer													
2000	128.4*	6.5*	184.6*	30.2	60.5	87.7	144.2	212.8	341.1	415.5	596.9	700.7	1215.1
2007	120.2*	6.7*	164.7*	31.7	52.7	68.0	132.7	174.3	261.0	432.3	539.3	821.7	1175.3
Chronic obstructive pulmonary disease (COPD)													
2000	28.1*	0.4*	30.5*	-	2.0	5.4	13.4	22.5	57.9	112.1	146.5	258.4	405.0
2007	26.7*	0.5*	22.5*	1.2	3.6	1.9	9.7	19.2	38.1	84.0	148.0	251.8	468.3
Other respiratory disease													
2000	8.7*	0.7*	3.8*	1.3	2.7	0.8	0.8	2.1	5.1	13.5	14.2	37.2	291.9
2007	10.6*	1.1*	3.1*	1.9	1.8	2.5	2.2	2.4	2.0	8.8	13.6	44.1	373.7
Vascular disease													
2000	193.4*	2.9*	114.6*	11.3	22.2	42.3	59.5	133.7	169.9	363.2	692.9	1412.6	5118.7
2007	155.1*	1.7*	76.7*	9.3	23.0	21.6	49.2	71.1	113.4	249.4	471.3	998.2	4651.7
Liver cirrhosis													
2000	2.4*	-	4.1*	0.6	0.7	3.8	2.5	6.4	10.3	4.5	12.6	14.9	5.6
2007	2.0*	-	4.1*	1.2	1.8	1.9	1.5	3.2	6.8	12.5	4.5	12.9	8.1
Other medical causes													
2000	89.0*	21.5*	60.7*	11.9	14.8	26.2	44.4	61.0	108.1	158.4	281.9	539.0	1794.7
2007	93.0*	19.8*	55.8*	11.2	20.0	22.9	29.8	63.1	86.0	157.9	247.7	558.8	2176.5
All non-medical causes													
2000	21.9*	17.1*	18.3*	14.4	15.5	20.8	15.1	21.4	12.9	28.4	33.1	48.3	189.9
2007	24.5*	15.5*	20.6*	24.9	20.0	16.7	22.4	30.4	14.7	15.0	37.8	49.6	276.8

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

NEW ZEALAND: 2007

Relative importance of deaths in MIDDLE age (35–69) in the year 2007

Age range (years)	Deaths attributed to SMOKING /total deaths (thousands)		Mean years lost PER DEATH FROM SMOKING
	Male	Female	
0–34	– / 0.8	– / 0.5	–
35–69	0.8 / 4.3	0.6 / 3.0	23 years
70+	1.5 / 9.3	1.5 / 11	7 years
All ages	2.3 / 14	2.1 / 14	12 years

Deaths, by cause, attributed to SMOKING / total deaths in the year 2007

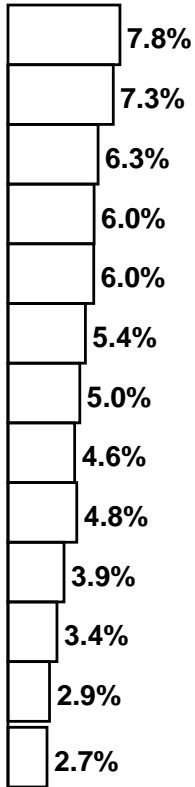
Cause	Male (by age)				Female (by age)			
	0–34	35–69	70+	All	0–34	35–69	70+	All
Lung Cancer	–/ 1	298/359	429/504	727/864	–/ 3	236/304	292/357	528/664
All Cancer	–/72	431/1666 (26%)	666/2739 (24%)	1097/4477	–/73	284/1591 (18%)	411/2276 (18%)	695/3940
Vascular	–/34	175/1316	260/3668	435/5018	–/18	110/558	409/4888	519/5464
Respiratory	–/17	86/174	453/957	539/1148	–/16	107/179	490/998	597/1193
All Other	–/683	74/1100	116/1907	190/3690	–/360	81/647	198/2664	279/3671
All Causes	–/806	766/4256 (18%)	1495/9271 (16%)	2261/14333	–/467	582/2975 (20%)	1508/10826 (14%)	2090/14268

Cancer deaths, and all deaths, attributed to SMOKING / total deaths (thousands) in the year 2007

Cause	Male	Female	Male + Female
All Cancer	1.1 / 4.5 (25%)	0.7 / 3.9 (18%)	1.8 / 8.4 (21%)
All Causes	2.3 / 14 (16%)	2.1 / 14 (15%)	4.4 / 29 (15%)

1950-2007: NEW ZEALAND

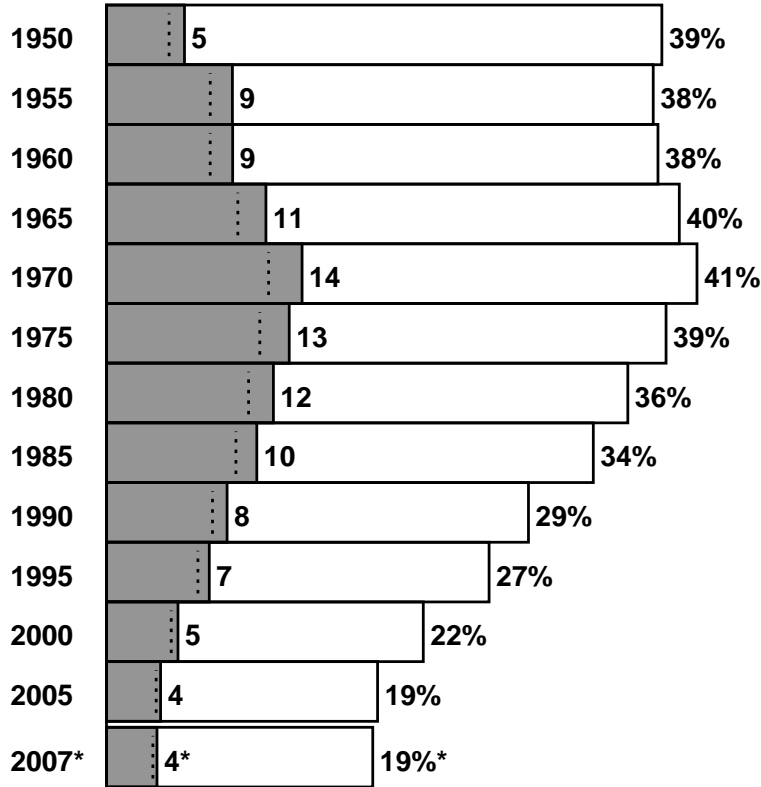
Population risk of dying at ages 0-34



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

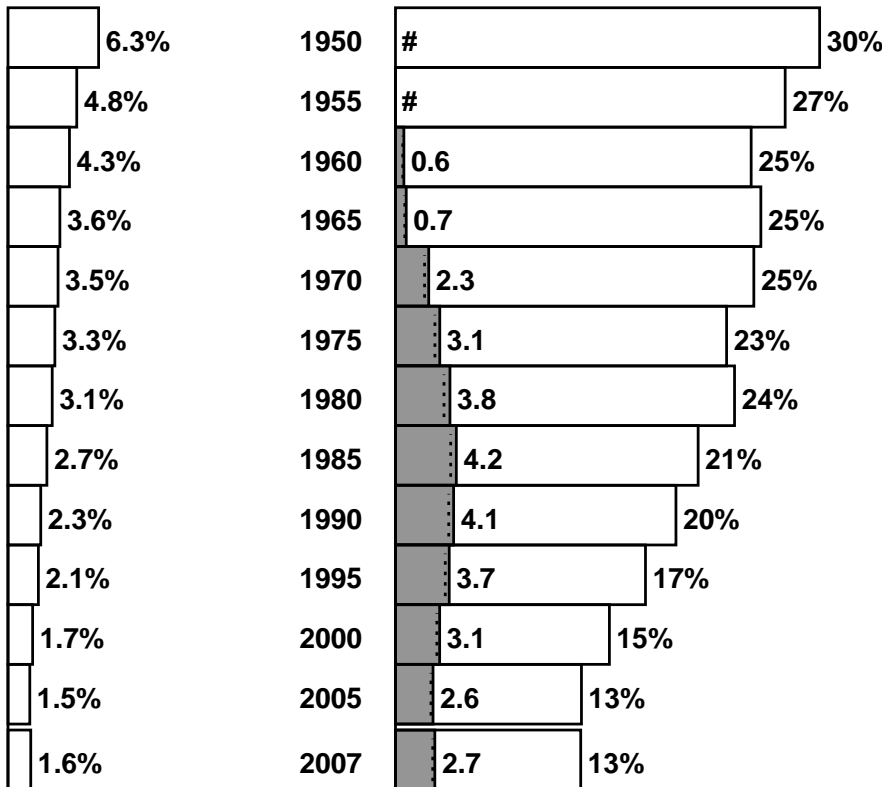
*eg, at year 2007 male death rates, out of 100 men aged 35, 19 would die before age 70 (with 4 of these deaths attributed to smoking)

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

NEW ZEALAND: 1950-2010

Numbers of deaths attributed to smoking / total deaths

Year	Male (by age)				Female (by age)			
	0-34	35-69	70+	All	0-34	35-69	70+	All
1950	-/1542	569/3968 (14%)	145/4431 (3%)	714/9941	-/1204	0/2941	0/3998	0/8143
1955	-/1609	932/3998 (23%)	370/5020 (7%)	1302/10627	-/1022	0/2831	0/4745	0/8598
1960	-/1539	970/4294 (23%)	578/5713 (10%)	1548/11546	-/1042	58/2734 (2%)	17/5570	75/9346
1965	-/1529	1408/5125 (27%)	911/6005 (15%)	2319/12659	-/915	95/3121 (3%)	0/6281	95/10317
1970	-/1576	1909/5822 (33%)	1114/6217 (18%)	3023/13615	-/916	321/3366 (10%)	199/6943 (3%)	520/11225
1975	-/1560	1924/5902 (33%)	1422/6336 (22%)	3346/13798	-/902	454/3370 (13%)	309/7045 (4%)	763/11317
1980	-/1367	1783/5617 (32%)	1761/7354 (24%)	3544/14338	-/811	574/3593 (16%)	507/7946 (6%)	1081/12350
1985	-/1303	1665/5416 (31%)	1680/7815 (21%)	3345/14534	-/718	666/3341 (20%)	621/8891 (7%)	1287/12950
1990	-/1369	1386/4936 (28%)	1626/7662 (21%)	3012/13967	-/636	658/3242 (20%)	744/8679 (9%)	1402/12557
1995	-/1143	1226/4795 (26%)	1686/8590 (20%)	2912/14528	-/613	624/3078 (20%)	1200/9737 (12%)	1824/13428
2000	-/960	909/4198 (22%)	1630/8655 (19%)	2539/13813	-/483	546/2834 (19%)	1259/9588 (13%)	1805/12905
2005	-/839	771/4114 (19%)	1503/8541 (18%)	2274/13494	-/440	538/2855 (19%)	1351/10352 (13%)	1889/13647
2007	-/806	766/4256 (18%)	1495/9271 (16%)	2261/14333	-/467	582/2975 (20%)	1508/10826 (14%)	2090/14268

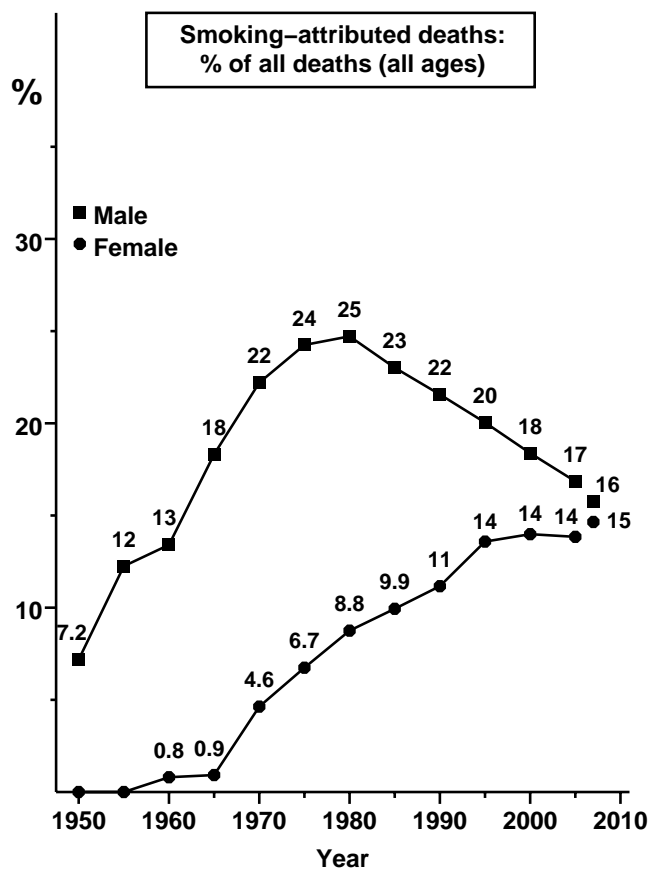
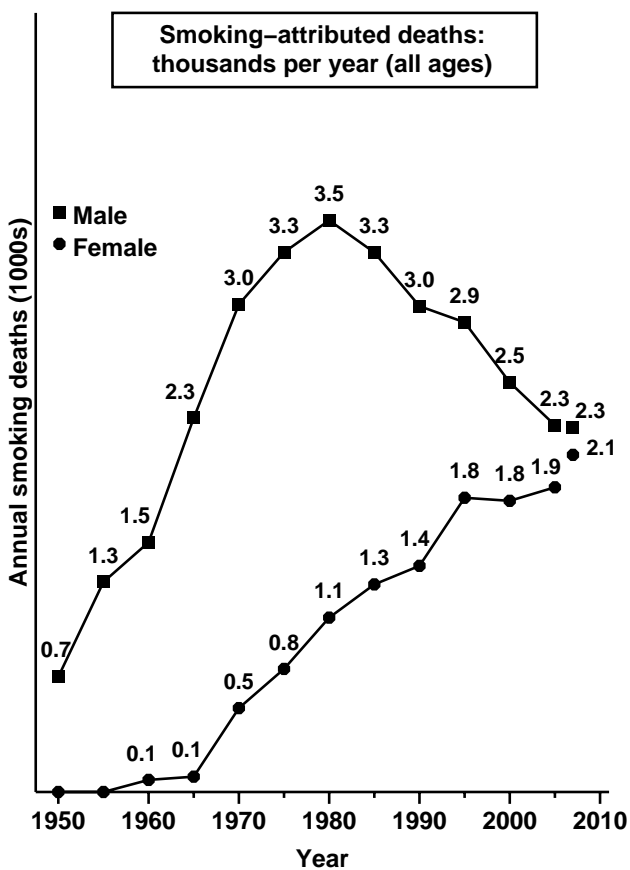
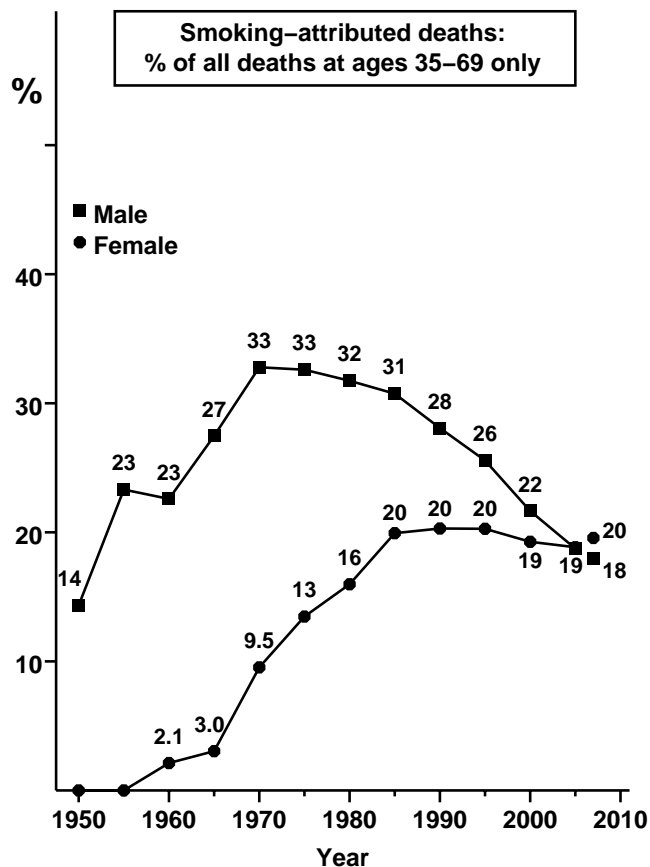
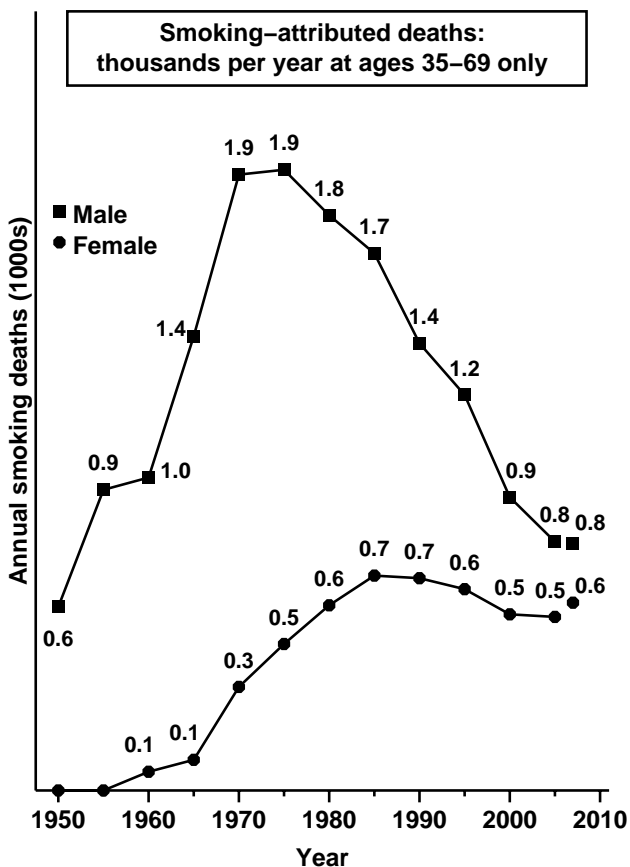
50-year total* (thousands), mid-1960 to mid-2010: 201 / 1307

1960-2010 by age & sex:

-/64	70/254 (28%)	72/373 (19%)	142/690	-/36	24/158 (15%)	35/423 (8%)	59/617
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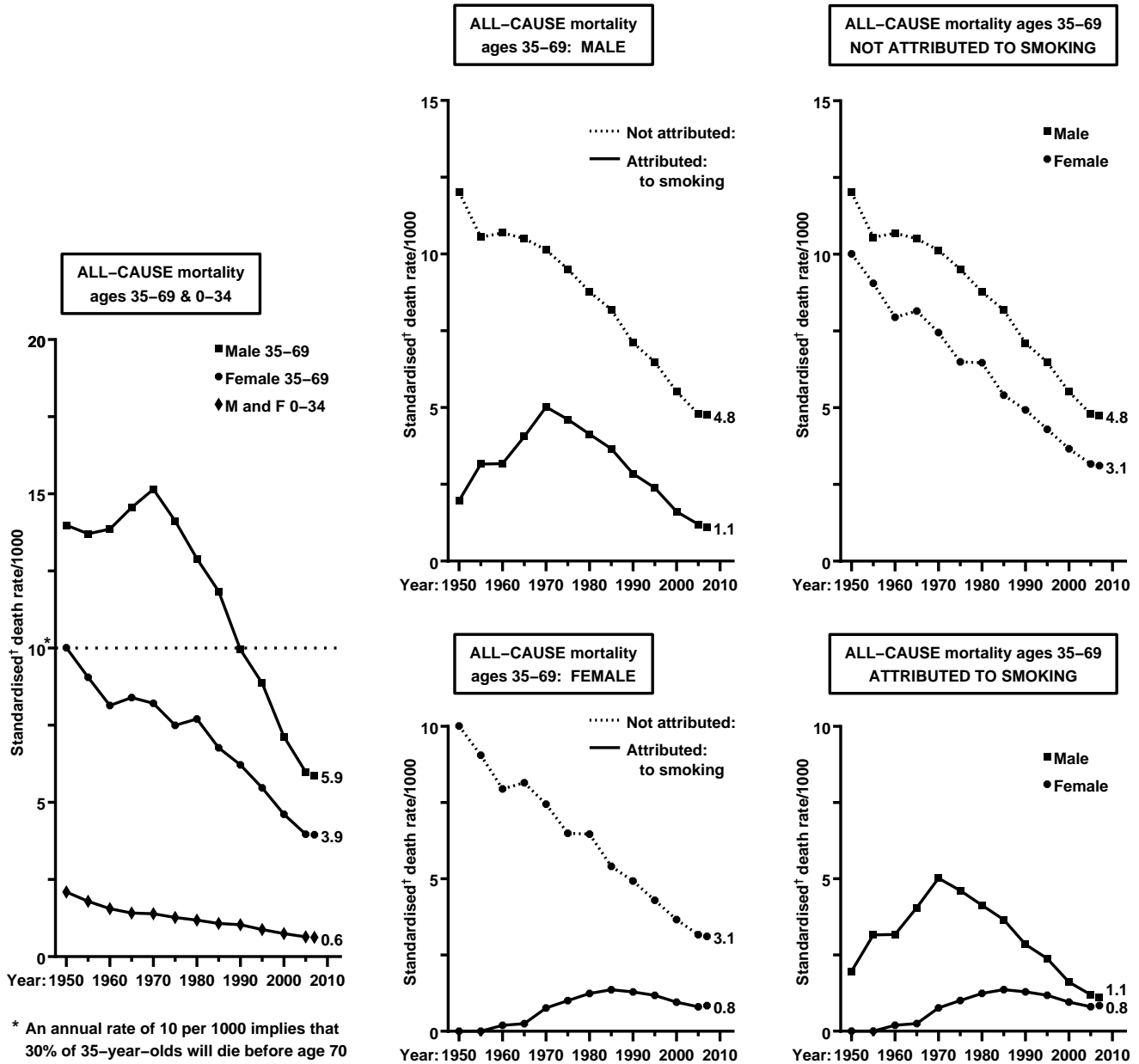
*Estimated as 10 times the sum of the annual numbers for 1965, 1975, 1985, 1995 & 2005

1950-2007: NEW ZEALAND



NEW ZEALAND: 1950-2007

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

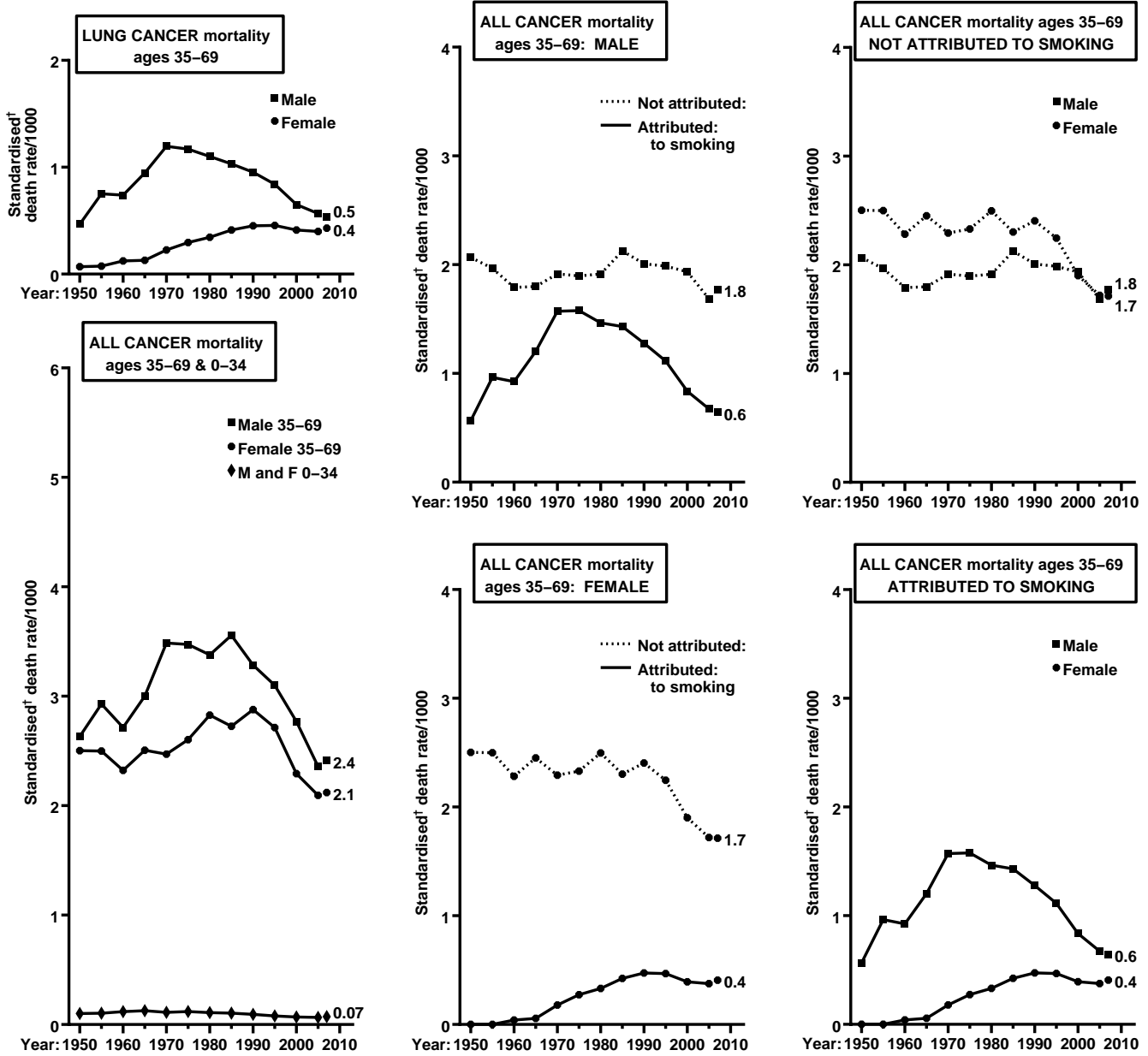
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

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	Yes	No			
1950	-	2.32	1.96	12.0	2.70	74.6	-	1.86	0.00	10.0	0.00	55.3				
1955	-	2.18	3.16	10.5	6.00	68.0	-	1.40	0.00	9.05	0.00	54.6				
1960	-	1.85	3.17	10.7	8.62	66.1	-	1.25	0.19	7.94	0.27	50.6				
1965	-	1.77	4.05	10.5	14.9	72.0	-	1.05	0.25	8.15	0.00	49.6				
1970	-	1.76	5.02	10.1	15.7	64.9	-	1.01	0.76	7.45	1.64	47.1				
1975	-	1.58	4.61	9.51	18.3	55.3	-	0.95	1.00	6.49	2.23	40.8				
1980	-	1.47	4.13	8.77	19.7	55.6	-	0.89	1.24	6.46	3.48	39.9				
1985	-	1.36	3.66	8.18	15.8	53.5	-	0.79	1.36	5.41	3.80	36.1				
1990	-	1.40	2.84	7.10	13.7	45.5	-	0.66	1.29	4.92	4.48	29.1				
1995	-	1.14	2.38	6.48	12.1	41.8	-	0.61	1.18	4.29	5.34	25.8				
2000	-	0.99	1.61	5.52	9.63	35.3	-	0.49	0.95	3.66	4.47	21.3				
2005	-	0.84	1.19	4.79	7.39	27.9	-	0.44	0.80	3.16	4.34	18.5				
2007	-	0.79	1.11	4.75	6.56	29.4	-	0.46	0.84	3.11	4.44	18.5				

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

1950-2007: NEW ZEALAND

ALL CANCER mortality rates attributed and not attributed to smoking



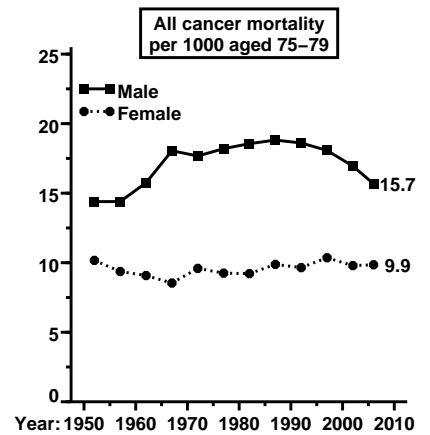
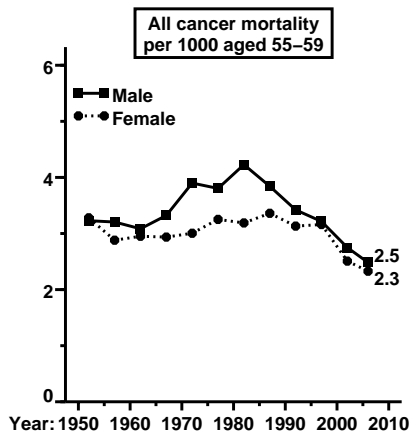
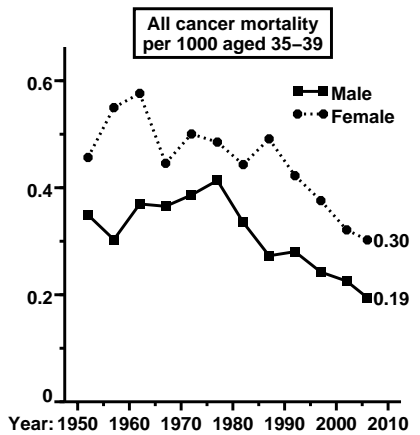
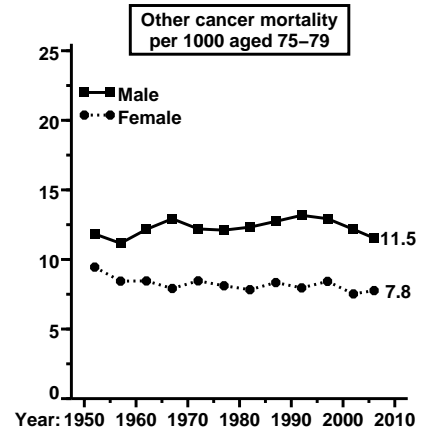
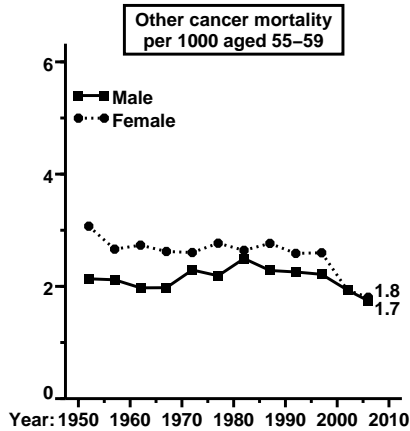
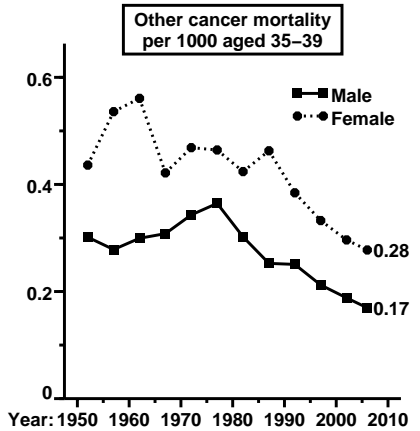
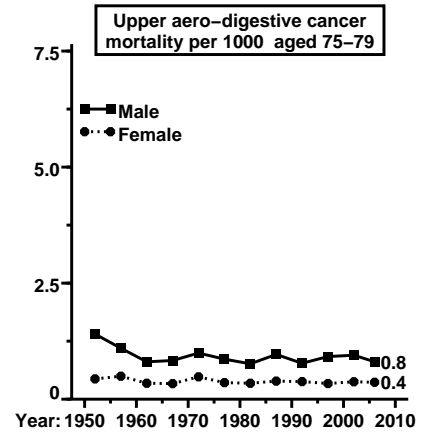
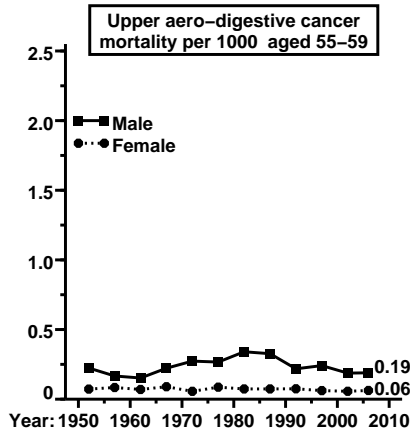
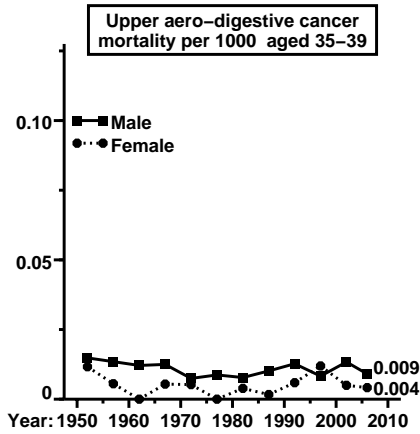
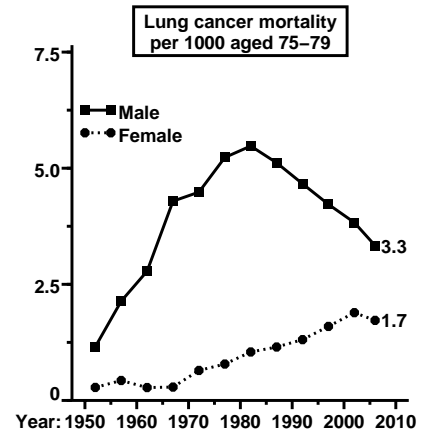
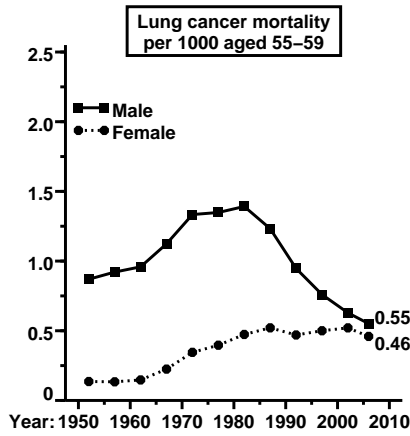
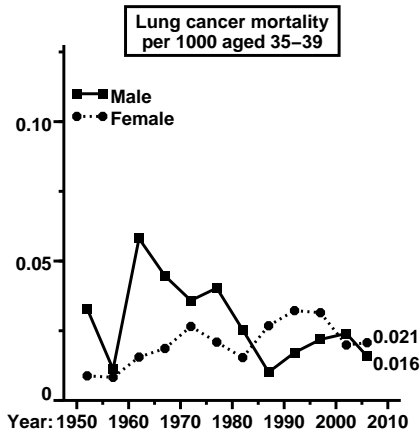
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

Year	MALE cancer mortality (annual rate/1000, by age)								FEMALE cancer mortality (annual rate/1000, by age)							
	0-34		35-69		70-79		0-34		35-69		70-79					
	Attributed to smoking?		Yes	No	Yes	No	Yes	No	Yes	No	Yes	No				
1950	-	0.10	0.57	2.07	0.97	11.8	-	0.10	0.00	2.50	0.00	8.44				
1955	-	0.11	0.96	1.97	1.83	10.2	-	0.09	0.00	2.50	0.00	9.02				
1960	-	0.12	0.92	1.79	2.60	10.0	-	0.11	0.04	2.28	0.05	7.86				
1965	-	0.12	1.20	1.80	4.50	10.8	-	0.13	0.06	2.45	0.00	7.14				
1970	-	0.13	1.57	1.91	5.04	10.0	-	0.09	0.18	2.29	0.00	7.85				
1975	-	0.13	1.58	1.90	6.46	9.56	-	0.11	0.27	2.33	0.54	7.73				
1980	-	0.12	1.46	1.91	6.82	10.0	-	0.10	0.33	2.50	0.88	7.73				
1985	-	0.10	1.43	2.13	5.65	10.6	-	0.11	0.42	2.30	0.97	8.04				
1990	-	0.10	1.28	2.01	5.58	10.5	-	0.08	0.47	2.40	1.37	7.62				
1995	-	0.08	1.11	1.99	5.31	11.2	-	0.08	0.47	2.25	1.77	7.36				
2000	-	0.07	0.84	1.93	4.80	11.3	-	0.07	0.39	1.90	1.61	6.72				
2005	-	0.06	0.67	1.68	3.84	9.35	-	0.07	0.37	1.72	1.57	6.34				
2007	-	0.07	0.64	1.77	3.50	9.88	-	0.07	0.41	1.71	1.77	6.97				

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

NEW ZEALAND: 1950-2007

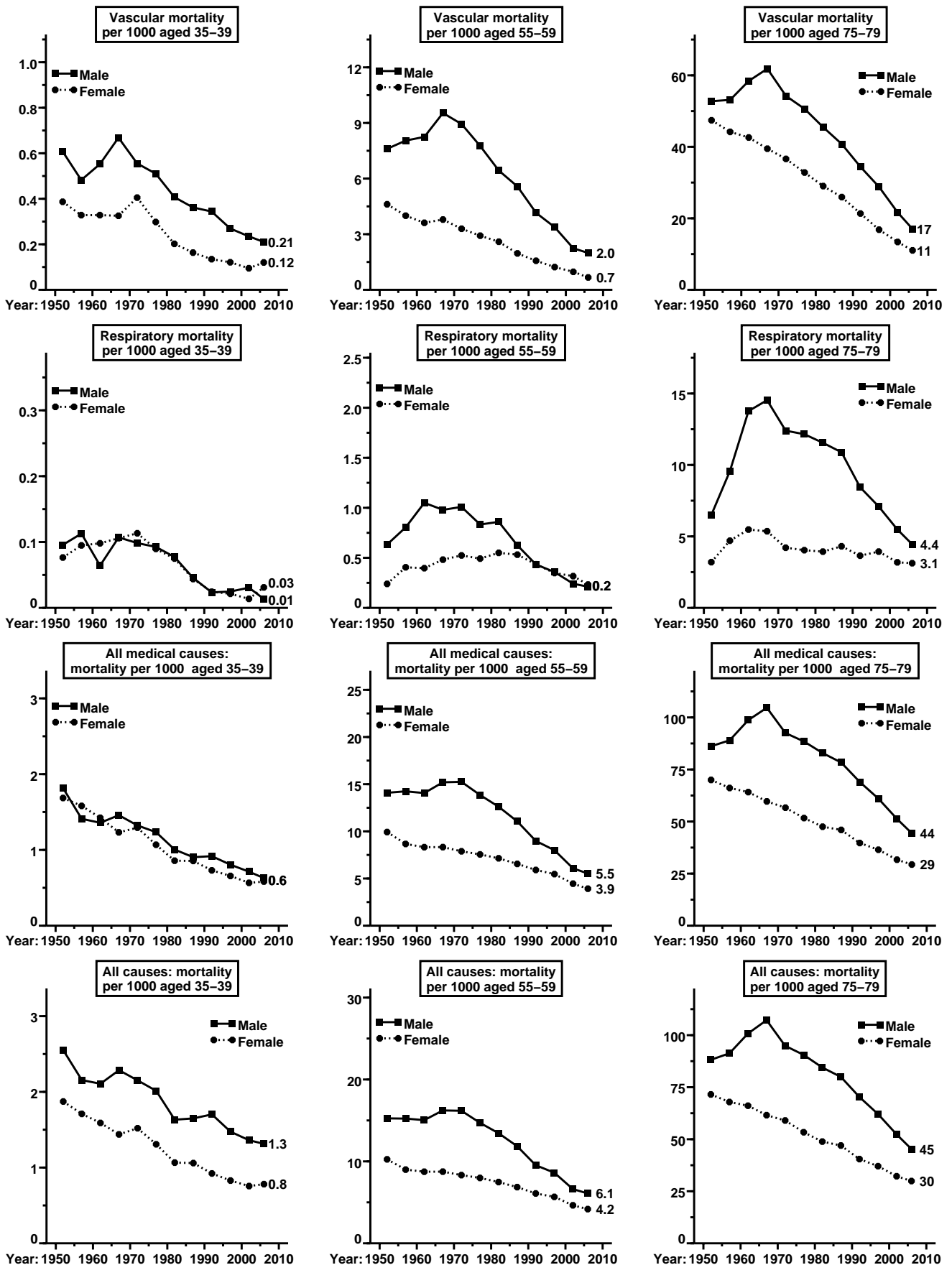
Mortality* trends at selected ages: 35-39, 55-59 & 75-79



* Annual mortality per 1000: averages of years available in 1950-54,.....,2000-04; then 3-year average 2005-07

1950-2007: NEW ZEALAND

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



* Annual mortality per 1000: averages of years available in 1950-54,.....,2000-04; then 3-year average 2005-07