

MORTALITY FROM SMOKING IN DEVELOPED COUNTRIES 1950–2020

(see also www.deathsfromsmoking.net)

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ALL DEVELOPED COUNTRIES

Raw data (pages 2–3)

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(revised September 2015)

ALL DEVELOPED COUNTRIES: 2010

		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	6528478	345178	2458013	864.1	113.0	974.8	192.6	18.9	21.3	64.8	120.4	162.1	210.6
	F	6346682	162161	1299028	532.8	56.6	477.6	156.4	14.2	15.2	30.0	43.4	58.4	79.0
Tuberculosis	M	38648	6700	26560	5.7	2.1	9.0	0.1	0.0	0.0	0.2	1.8	4.5	8.0
	F	12283	2766	5828	1.5	0.9	1.9	0.1	0.0	0.1	0.2	1.1	2.0	2.6
Other infective and parasitic	M	96674	11014	39729	13.2	3.6	14.9	6.9	0.5	0.5	0.7	1.5	5.3	9.8
	F	90888	6332	21610	8.3	2.2	7.7	5.6	0.5	0.3	0.6	1.2	3.0	4.0
ALL CANCER	M	1580119	17382	671355	209.6	5.7	280.3	3.3	3.0	3.0	4.3	6.0	8.1	11.9
	F	1271335	15976	488395	125.5	5.3	179.4	2.8	2.5	2.6	3.2	4.3	7.5	14.4
Mouth and pharynx cancer	M	47458	362	31940	6.7	0.1	12.6	0.0	0.0	0.0	0.1	0.2	0.2	0.3
	F	14980	232	6553	1.5	0.1	2.4	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Oesophagus cancer	M	55639	114	30274	7.6	0.0	12.6	-	-	-	-	0.0	0.1	0.2
	F	16350	59	5887	1.6	0.0	2.2	-	-	-	-	0.0	0.0	0.1
Stomach cancer	M	112832	665	48459	15.0	0.2	20.1	0.0	0.0	-	0.0	0.1	0.4	0.9
	F	71142	692	23020	6.7	0.2	8.5	-	-	0.0	0.1	0.2	0.4	0.9
Colorectal cancer	M	171306	856	66688	22.5	0.3	28.2	0.0	-	0.0	0.1	0.2	0.5	1.1
	F	153351	683	46258	14.0	0.2	17.2	-	0.0	0.0	0.0	0.2	0.4	0.9
Liver cancer	M	68144	452	32096	9.2	0.1	13.4	0.1	0.1	0.1	0.1	0.1	0.2	0.4
	F	33254	308	9472	3.1	0.1	3.6	0.1	0.0	0.0	0.1	0.1	0.2	0.2
Pancreas cancer	M	88726	282	42198	11.9	0.1	17.6	0.0	0.0	0.0	0.0	0.0	0.1	0.4
	F	86340	161	27659	8.1	0.1	10.5	-	-	-	0.0	0.0	0.1	0.2
Larynx cancer	M	23542	32	14102	3.2	0.0	5.7	-	-	-	-	0.0	0.0	0.0
	F	2939	25	1473	0.3	0.0	0.5	-	-	-	-	0.0	0.0	0.0
Lung cancer	M	416341	691	195624	55.9	0.2	82.6	0.0	0.0	0.0	0.1	0.2	0.4	0.8
	F	197447	468	82691	19.9	0.1	31.1	0.0	0.0	0.0	0.1	0.1	0.2	0.6
Malignant melanoma	M	20059	515	10256	2.7	0.2	4.1	0.0	-	0.0	0.1	0.1	0.4	0.6
	F	14487	464	6783	1.5	0.1	2.4	0.0	-	0.0	0.0	0.1	0.3	0.6
Female breast cancer	F	195671	1563	99260	20.9	0.5	35.4	-	-	-	0.0	0.1	0.6	2.7
Cervix cancer	F	30313	1368	19706	3.7	0.4	6.7	-	-	-	-	0.1	0.8	2.1
Other uterine cancer	F	41503	218	18029	4.2	0.1	6.7	-	0.0	-	0.0	0.0	0.1	0.3
Ovarian cancer	F	66366	681	32684	7.1	0.2	11.9	0.0	0.0	0.0	0.1	0.2	0.4	0.7
Prostate cancer	M	138853	40	25062	17.0	0.0	11.5	0.0	-	-	0.0	0.0	0.0	0.0
Bladder cancer	M	57556	49	15890	7.3	0.0	7.0	0.0	-	-	0.0	-	0.0	0.1
	F	20220	37	3953	1.6	0.0	1.5	-	-	-	-	-	0.0	0.1
Other and ill-defined cancer sites	M	263882	8308	116823	35.4	2.7	47.6	1.9	1.9	1.6	2.3	3.0	3.8	4.8
	F	229872	5599	77027	22.1	1.9	28.4	1.6	1.6	1.5	1.6	1.8	2.1	3.1
Hodgkin's disease	M	3109	487	1444	0.4	0.1	0.6	0.0	0.0	0.1	0.1	0.2	0.3	0.3
	F	2448	350	861	0.3	0.1	0.3	-	-	0.0	0.1	0.2	0.2	0.3
Myeloma and non-Hodgkin lymphomas	M	62392	1244	23039	8.2	0.4	9.6	0.1	0.2	0.2	0.3	0.5	0.6	0.9
	F	54691	703	15285	5.0	0.2	5.8	0.1	0.1	0.1	0.2	0.3	0.4	0.5
Leukaemia	M	50280	3285	17460	6.7	1.1	7.3	1.0	0.8	1.0	1.2	1.2	1.2	1.2
	F	39961	2365	11794	3.9	0.8	4.4	0.9	0.7	0.8	0.8	0.8	0.8	1.0
Diabetes	M	108768	1304	39510	14.1	0.4	16.3	0.0	0.1	0.1	0.2	0.5	0.8	1.3
	F	125678	1087	26675	10.4	0.3	10.1	0.0	0.1	0.1	0.2	0.5	0.7	0.9
ALL VASCULAR DISEASE	M	2482638	26955	840101	320.0	8.5	340.2	3.4	0.7	1.1	3.0	6.6	15.1	29.9
	F	2888259	11706	383727	218.8	3.9	145.7	3.0	0.6	0.9	1.8	3.5	6.3	10.9
Rheumatic heart disease and fever	M	9485	391	4189	1.3	0.1	1.6	0.0	0.0	0.0	0.1	0.1	0.2	0.3
	F	17767	396	5210	1.6	0.1	1.9	0.0	0.0	0.1	0.1	0.2	0.2	0.3
Hypertensive disease	M	117662	769	39659	15.1	0.2	16.1	0.0	0.0	0.0	0.1	0.2	0.4	1.0
	F	179471	382	23999	13.3	0.1	9.1	0.0	-	-	0.0	0.1	0.2	0.5
Ischaemic heart disease	M	1190775	6618	440182	154.9	2.1	179.0	0.1	0.0	0.0	0.3	1.2	3.6	9.3
	F	1174356	1814	164259	90.5	0.6	63.4	0.1	0.0	0.0	0.2	0.4	1.1	2.3
Pulmonary embolism and other venous	M	27872	650	11604	3.7	0.2	4.6	0.0	-	0.0	0.1	0.2	0.4	0.6
	F	39482	700	9178	3.4	0.2	3.3	0.0	-	0.0	0.1	0.3	0.4	0.7
Cerebrovascular disease	M	566265	3788	165736	72.1	1.2	68.7	0.5	0.2	0.2	0.5	0.9	2.0	4.1
	F	803912	2338	104988	61.2	0.8	40.0	0.6	0.1	0.2	0.4	0.7	1.3	2.1
Other vascular disease	M	570579	14739	178731	73.0	4.7	70.2	2.7	0.5	0.7	1.9	3.9	8.4	14.6
	F	673271	6076	76093	48.8	2.0	28.0	2.4	0.4	0.6	1.0	1.8	3.1	5.0
Chronic obstructive pulmonary disease	M	231453	1228	54327	29.0	0.4	23.8	0.2	0.2	0.2	0.3	0.4	0.6	0.9
	F	177698	728	33922	14.5	0.2	13.2	0.1	0.1	0.1	0.2	0.2	0.4	0.5
Other respiratory disease	M	311734	17014	70722	39.6	5.9	28.1	24.6	1.4	0.9	1.2	2.0	4.2	7.0
	F	273834	11940	29661	20.9	4.4	10.9	21.0	1.2	0.9	1.0	1.5	2.3	2.9
Peptic ulcer	M	19991	531	9738	2.7	0.2	3.8	0.0	0.0	0.0	0.0	0.1	0.3	0.6
	F	15511	154	3482	1.3	0.1	1.5	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Liver cirrhosis (incl. some other digestive)	M	149429	7320	112129	21.6	2.3	41.5	0.1	0.1	0.2	0.5	1.4	4.3	9.4
	F	83027	3725	53963	10.2	1.2	18.6	0.1	0.0	0.1	0.2	0.9	2.4	4.5
Renal disease	M	88510	1937	19664	11.0	0.6	8.1	0.6	0.2	0.3	0.4	0.7	0.9	1.3
	F	101856	1740	14508	7.8	0.6	5.4	0.4	0.2	0.3	0.5	0.8	0.9	1.1
Pregnancy, birth	F	2342	1621	717	0.4	0.5	0.2	-	-	0.0	0.3	0.9	1.2	1.2
Congenital and perinatal causes	M	51674	46192	4105	10.1	16.8	1.5	111.9	1.1	0.8	1.1	1.0	0.9	0.9
	F	41378	36007	3651	8.3	13.8	1.2	91.6	1.1	0.9	0.8	0.8	0.7	0.7
Ill-defined causes	M	216002	17648	82332	28.8	5.8	30.7	12.3	0.7	0.8	2.3	5.0	8.3	11.3
	F	280418	7465	29151	20.3	2.6	10.4	9.1	0.5	0.5	1.1	1.8	2.4	3.1
Other medical causes	M	542120	23791	159836	69.5	7.8	62.5	11.4	3.2	3.3	5.1	7.2	10.2	14.6
	F	722966	15472	104387	55.2	5.4	38.1	9.2	2.8	3.0	3.8	4.8	6.2	7.8
ALL NON-MEDICAL CAUSES	M	610718	166162	327905	89.2	52.8	114.2	17.8	7.7	10.2	45.4	86.2	98.5	103.7
	F	259209	45442	99351	29.4	15.3	33.4	13.3	4.5	5.4	16.1	21.0	22.3	24.2
Road traffic accidents	M	75048	30832	34344	11.2	9.8	12.0	1.9	1.9	2.2	13.3	19.8	16.2	13.5
	F	28596	9859	11465	3.8	3.3	3.9	1.4	1.4	1.5	5.5	5.9	4.0	3.5
Fire	M	13777	2237	8710	2.0	0.7	3.1	1.0	0.4	0.2	0.3	0.7	1.1	1.4
	F	7121	1162	2955	0.8	0.4	1.0	0.8	0.3	0.2	0.2	0.3	0.5	0.5
Suicide	M	149076	40022	87723	21.9	12.6	30.6	-	0.1	1.8	11.2	22.9	25.5	26.4
	F	42049	9290	23998	5.6	3.0	8.0	-	0.0	0.9	3.9	5.2	5.3	5.9
POPULATION:			M=male		638407	295672	285261	39063	37210	38220	42544	46744	46546	45345
(1000s; UN, 2015 revision)			F=female											

2010: ALL DEVELOPED COUNTRIES

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			
253.1	335.4	512.6	796.1	1148.3	1589.0	2189.4	3450.2	5258.2	11472.4	M	ALL CAUSES	001-999/A00-Y89
106.4	153.4	236.4	368.4	535.5	778.1	1165.0	2025.2	3430.0	9797.2	F		
8.8	9.5	10.7	11.6	10.2	6.9	5.4	6.2	6.9	15.7	M	Tuberculosis	010-018, 137/A15-A19, B90
2.5	2.3	2.2	1.8	1.7	1.2	1.5	1.9	3.4	6.6	F		
8.6	9.0	11.4	13.6	16.9	19.2	25.4	34.7	63.3	152.9	M	Other infective and parasitic	Rest of 001-139,279.5&6/rest of A00-B99 excl A33,A34
3.7	4.1	4.8	6.3	8.3	10.7	16.2	23.8	45.5	127.3	F		
20.1	39.4	87.2	186.8	335.6	527.4	765.9	1072.6	1479.6	2227.6	M	ALL CANCER	140-208/C00-C97
26.8	48.4	85.1	145.6	214.2	312.4	423.5	572.1	767.5	1174.8	F		
0.8	2.2	5.8	12.8	19.6	22.8	23.9	24.9	25.6	29.0	M	Mouth and pharynx cancer	140-149/C00-C14
0.4	0.6	1.2	2.4	3.3	4.0	4.6	5.5	7.7	13.5	F		
0.4	1.3	3.8	9.0	16.3	24.8	32.3	37.6	43.7	52.2	M	Oesophagus cancer	150/C15
0.2	0.3	0.8	1.6	2.7	4.0	5.8	7.5	10.2	16.3	F		
1.8	3.6	6.9	13.8	23.8	37.7	52.9	83.0	107.9	149.1	M	Stomach cancer	151/C16
1.6	2.6	4.1	6.4	9.7	14.4	20.6	34.3	46.3	74.3	F		
2.0	4.0	8.1	16.6	31.2	53.6	82.0	122.0	171.7	263.5	M	Colorectal cancer	153, 154/C18-C21
1.9	3.5	6.9	12.8	20.3	31.2	44.1	69.5	97.9	176.9	F		
0.7	1.4	4.0	9.4	17.2	25.4	35.5	48.6	68.4	73.0	M	Liver cancer	155.0/C22 excl C221
0.3	0.6	1.2	2.3	4.0	6.5	10.1	17.1	26.3	34.5	F		
1.0	2.4	5.7	11.7	21.0	33.4	48.5	62.0	80.1	104.4	M	Pancreas cancer	157/C25
0.6	1.4	3.2	6.5	11.6	20.2	30.3	44.0	60.3	88.2	F		
0.2	0.6	2.0	4.9	8.6	11.0	12.7	14.9	16.2	18.5	M	Larynx cancer	161/C32
0.1	0.1	0.2	0.5	0.8	0.9	1.2	1.4	1.6	1.8	F		
2.3	7.0	20.9	53.8	101.5	159.5	233.2	306.4	392.6	471.7	M	Lung cancer	162/C33, C34
1.6	4.3	10.9	23.5	36.5	57.6	83.0	98.5	128.3	154.8	F		
1.0	1.5	2.2	3.1	4.7	6.9	8.9	11.3	15.4	23.1	M	Malignant melanoma	172/C43
0.8	1.2	1.6	2.3	2.8	3.7	4.4	5.4	7.2	11.1	F		
6.8	13.7	22.2	34.9	45.7	57.9	66.2	77.2	91.2	142.3	F	Female breast cancer	174/C50
3.7	5.0	6.3	7.9	8.1	7.9	7.7	9.8	10.3	11.1	F	Cervix cancer	180/C53
0.7	1.4	2.6	4.8	8.2	12.7	16.5	21.6	23.9	31.6	F	Other uterine cancer	179, 182/C54, C55
1.4	3.1	6.3	10.6	15.1	20.5	26.0	31.4	36.7	42.5	F	Ovarian cancer	183/C56, C570-C574
0.1	0.1	0.8	3.0	9.1	22.0	45.6	86.4	156.1	378.7	M	Prostate cancer	185/C61
0.1	0.5	1.3	3.1	7.1	13.5	23.0	37.7	61.3	126.9	M	Bladder cancer	188/C67
0.1	0.3	0.5	1.0	1.5	2.7	4.5	7.2	13.2	31.0	F		
6.7	10.8	19.4	34.8	57.5	86.0	118.2	163.8	226.3	354.5	M	Other and ill-defined cancer sites	Rest of 140-199/rest of C00-C80, C97
4.7	7.5	12.8	21.5	33.2	49.7	69.7	98.5	140.9	239.2	F		
0.3	0.3	0.4	0.5	0.6	0.7	1.1	1.4	2.2	2.8	M	Hodgkin's disease	201/C81
0.2	0.2	0.2	0.2	0.3	0.4	0.6	0.9	1.4	1.9	F		
1.2	1.9	3.3	5.8	10.4	17.5	27.2	40.4	62.9	102.5	M	Myeloma and non-Hodgkin lymphomas	200, 202-203/C82-C90, C96
0.7	1.1	1.9	3.4	5.9	10.6	17.0	25.1	38.9	62.3	F	Leukaemia	204-208/C91-C95
1.4	1.9	2.8	4.5	6.9	12.7	20.8	32.1	49.4	77.9	M		
1.1	1.4	2.1	3.0	4.5	7.3	11.2	17.1	25.4	41.6	F		
2.0	3.5	6.5	10.8	18.8	29.1	43.4	62.8	103.1	202.9	M	Diabetes	250/E10-E14
1.3	2.0	3.3	6.2	11.0	18.4	28.7	46.0	78.1	185.7	F		
49.5	84.2	154.7	266.8	405.0	590.2	830.8	1483.5	2255.0	5014.8	M	ALL VASCULAR DISEASE	390-459/I00-I99
17.5	30.0	52.9	90.8	151.1	247.6	430.1	957.9	1732.2	5074.0	F		
0.5	0.7	1.2	1.7	1.9	2.3	2.9	4.7	6.6	15.2	M	Rheumatic heart disease and fever	390-398/I00-I09
0.4	0.8	1.1	1.6	2.2	3.0	4.3	6.9	10.1	21.9	F		
1.8	3.7	7.3	12.8	19.5	27.1	40.9	62.2	101.8	256.4	M	Hypertensive disease	401-405/I10-I15
0.8	1.8	3.5	6.5	9.6	14.8	26.6	49.2	93.7	333.6	F		
18.4	37.0	77.0	141.4	219.0	322.9	437.0	771.9	1082.7	2155.6	M	Ischaemic heart disease	410-414/I20-I25
4.2	8.8	17.5	33.9	64.4	113.9	201.1	457.6	769.8	1948.2	F		
1.1	1.7	2.6	3.6	5.5	7.4	10.2	14.4	23.4	46.9	M	Pulmonary embolism and other venous	415.1, 451-453/126, 180-182
1.1	1.5	2.3	2.5	3.4	4.9	7.6	12.5	22.8	57.9	F		
7.5	13.9	25.8	47.1	78.2	121.9	186.2	370.7	579.5	1199.9	M	Cerebrovascular disease	430-438/I60-I69
4.1	7.5	14.5	25.6	40.9	67.2	119.9	286.0	518.9	1379.6	F		
20.3	27.3	40.8	60.2	81.0	108.5	153.5	259.6	461.0	1340.9	M	Other vascular disease	Rest of 390-459/rest of I00-I99
6.9	9.7	14.1	20.7	30.6	43.8	70.6	145.7	317.0	1332.9	F		
1.3	2.2	4.9	11.1	22.5	43.4	81.4	147.9	256.5	553.4	M	Chronic obstructive pulmonary disease	490-496/J40-J47, J67
0.9	1.6	3.3	6.9	12.3	23.6	44.1	69.9	120.9	264.5	F		
8.6	10.8	15.5	22.7	30.8	42.1	66.0	118.7	247.7	865.7	M	Other respiratory disease	Rest of 460-519/rest of J00-J98
3.4	4.2	5.8	8.1	11.3	16.0	27.3	49.9	109.1	540.0	F		
0.9	1.4	2.3	3.8	4.9	6.1	6.8	10.3	14.4	27.7	M	Peptic ulcer	531-533/K25-K27
0.3	0.4	0.7	1.0	1.5	2.2	2.8	5.0	8.6	23.5	F		
14.3	21.7	33.6	46.7	57.2	59.8	56.8	58.2	52.9	43.8	M	Liver cirrhosis (incl. some other digestive)	571/K70, K74
6.7	9.7	14.3	20.8	27.2	26.1	25.3	29.2	29.4	27.5	F		
1.8	2.0	3.2	5.2	8.8	13.3	22.5	40.9	77.8	248.2	M	Renal disease	580-590/N00-N19
1.4	1.6	2.3	4.0	5.5	8.3	14.9	27.5	51.1	184.3	F		
1.0	0.4	0.1	0.1	0.0	-	-	0.0	-	-	M	Pregnancy, birth	630-676/A34, O00-O99
1.0	1.0	1.2	1.6	1.9	2.0	1.6	1.6	2.1	3.8	F	Congenital and perinatal causes	740-779/A33, P00-P96, Q00-Q99
0.8	0.9	1.1	1.3	1.6	1.7	1.4	1.2	1.5	2.8	F	Ill-defined causes	780-799/R00-R99
13.8	17.4	23.2	31.5	38.3	43.2	47.6	73.5	118.3	442.1	M		
4.0	5.1	6.7	9.1	11.9	15.1	20.9	40.1	86.7	595.4	F		
19.2	26.2	38.3	53.6	71.5	94.8	133.9	215.7	424.5	1327.0	M	Other medical causes	Rest of 001-799/rest of A00-R99
10.3	14.4	20.7	29.9	41.3	59.8	90.6	149.9	318.3	1362.3	F		
103.2	106.9	120.0	130.2	125.9	111.5	102.0	123.8	156.0	346.9	M	ALL NON-MEDICAL CAUSES	E800-E999/V01-Y89
26.0	28.4	33.1	36.6	36.7	35.0	37.8	50.8	77.5	228.5	F		
12.3	11.9	12.5	12.6	11.9	10.9	11.7	12.8	16.9	23.1	M	Road traffic accidents	E810-E819, E826-E829/part of V01-V99, Y850
3.2	3.5	3.7	3.8	4.0	4.0	5.1	6.3	8.7	9.5	F		
1.9	2.3	3.0	3.8	3.9	3.7	3.3	3.9	4.2	6.9	M	Fire	E890-E899/X00-X09
0.6	0.7	0.9	1.1	1.3	1.3	1.4	2.0	2.9	4.8	F		
27.2	29.3	32.4	34.5	33.8	29.3	27.4	30.7	34.8	47.4	M	Suicide	E950-E959/X60-X84
6.6	7.2	8.1	8.9	8.3	8.3	8.7	8.8	9.7	10.9	F		
45868	45868	47410	44786	40464	34763	26103	23042	16410	18021	M	POPULATION	
45793	46032	48434	46903	43833	38533	30716	29772	23335	35542	F	(1000s; UN, 2015 revision)	

ALL DEVELOPED COUNTRIES: 2010

Relative importance of deaths in MIDDLE age (35–69) in the year 2010

Age range (years)	Deaths attributed to SMOKING /total deaths (millions)		Mean years lost PER DEATH FROM SMOKING
	Male	Female	
0–34	– / 0.3	– / 0.2	–
35–69	0.8 / 2.5	0.2 / 1.3	23 years
70+	0.8 / 3.7	0.5 / 4.9	8 years
All ages	1.5 / 6.5	0.7 / 6.3	14 years

Deaths, by cause, attributed to SMOKING / total deaths (thousands) in the year 2010

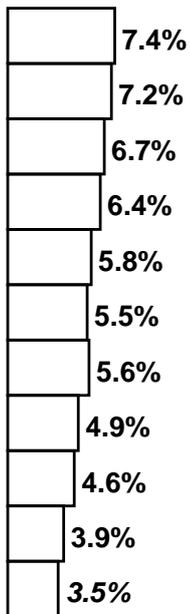
Cause	Male (by age)				Female (by age)			
	0–34	35–69	70+	All	0–34	35–69	70+	All
Lung Cancer	–/0.7	176/196	194/220	369/416	–/0.5	59/83	83/114	141/197
All Cancer	–/17	267/671 (40%)	282/891 (32%)	548/1580	–/16	71/488 (15%)	106/767 (14%)	177/1271
Vascular	–/27	339/840	263/1616	602/2483	–/12	64/384	191/2493	255/2888
Respiratory	–/18	69/125	155/400	224/543	–/13	27/64	115/375	142/452
All Other	–/283	94/822	59/818	153/1923	–/122	29/363	69/1250	99/1736
All Causes	–/345	768/2458 (31%)	758/3725 (20%)	1526/6528	–/162	192/1299 (15%)	481/4885 (10%)	673/6347

Cancer deaths, and all deaths, attributed to SMOKING / total deaths (millions) in the year 2010

Cause	Male	Female	Male + Female
All Cancer	0.5 / 1.6 (35%)	0.2 / 1.3 (14%)	0.7 / 2.9 (25%)
All Causes	1.5 / 6.5 (23%)	0.7 / 6.3 (11%)	2.2 / 13 (17%)

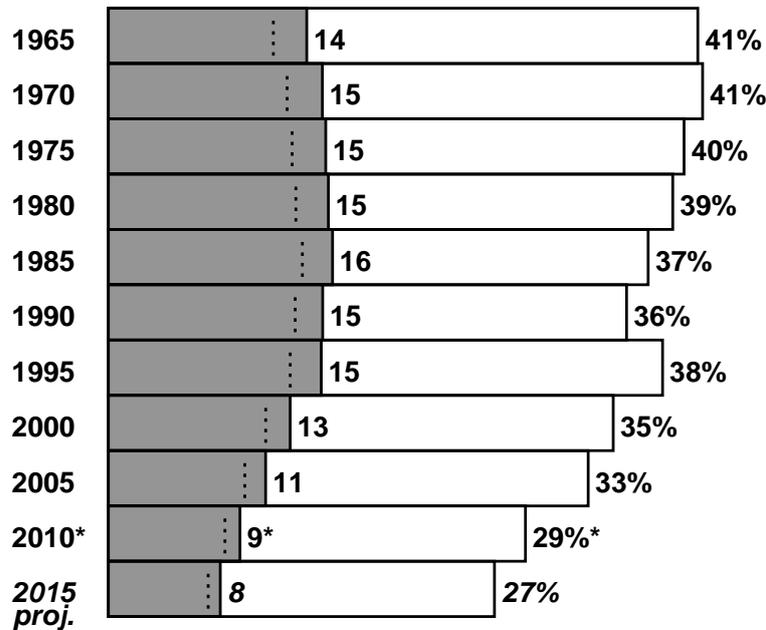
1965-2015: ALL DEVELOPED COUNTRIES

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)

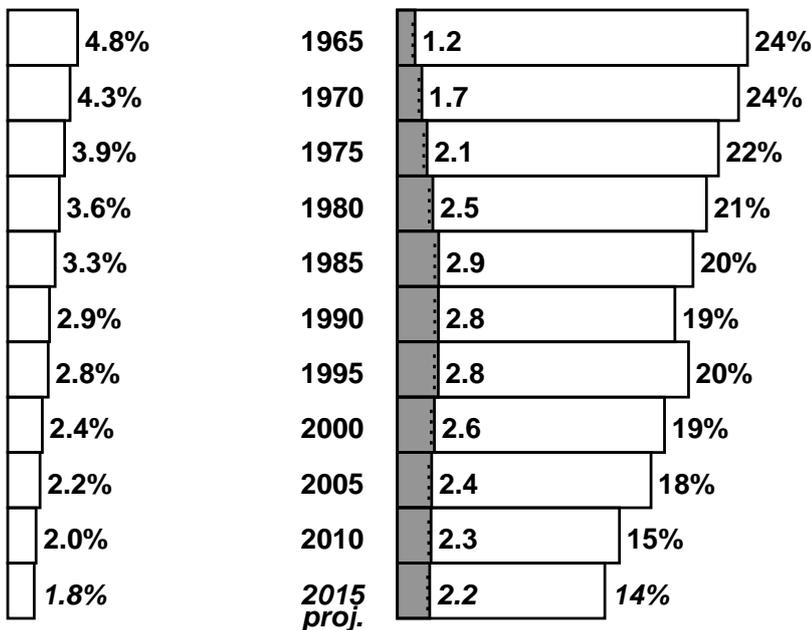
MALE



*eg, at year 2010 male death rates, out of 100 men aged 35, 29 would die before age 70 (with 9 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



ALL DEVELOPED COUNTRIES: 1960-2015

Relative importance of deaths in MIDDLE age (35–69), 2015 projections

Age range (years)	Deaths attributed to SMOKING /total deaths (millions)		Mean years lost PER DEATH FROM SMOKING
	Male	Female	
0–34	– / 0.3	– / 0.2	–
35–69	0.7 / 2.4	0.2 / 1.3	23 years
70+	0.7 / 3.8	0.5 / 4.9	7 years
All ages	1.4 / 6.5	0.7 / 6.4	14 years

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
1955
1965	–/664	700/2073 (34%)	288/2009 (14%)	988/4745	–/426	70/1376 (5%)	30/2482 (1%)	100/4284
1975	–/605	859/2309 (37%)	535/2433 (22%)	1394/5347	–/341	131/1425 (9%)	101/3134 (3%)	232/4900
1985	–/546	964/2318 (42%)	681/2914 (23%)	1645/5778	–/290	184/1348 (14%)	235/3929 (6%)	420/5567
1995	–/519	1105/2933 (38%)	750/3107 (24%)	1855/6559	–/238	209/1518 (14%)	415/4412 (9%)	624/6168
2005	–/409	888/2749 (32%)	776/3524 (22%)	1664/6682	–/182	188/1427 (13%)	472/4733 (10%)	660/6342
2015 <i>proj.</i>	–/310	695/2419 (29%)	707/3818 (19%)	1402/6547	–/151	201/1308 (15%)	494/4907 (10%)	695/6366

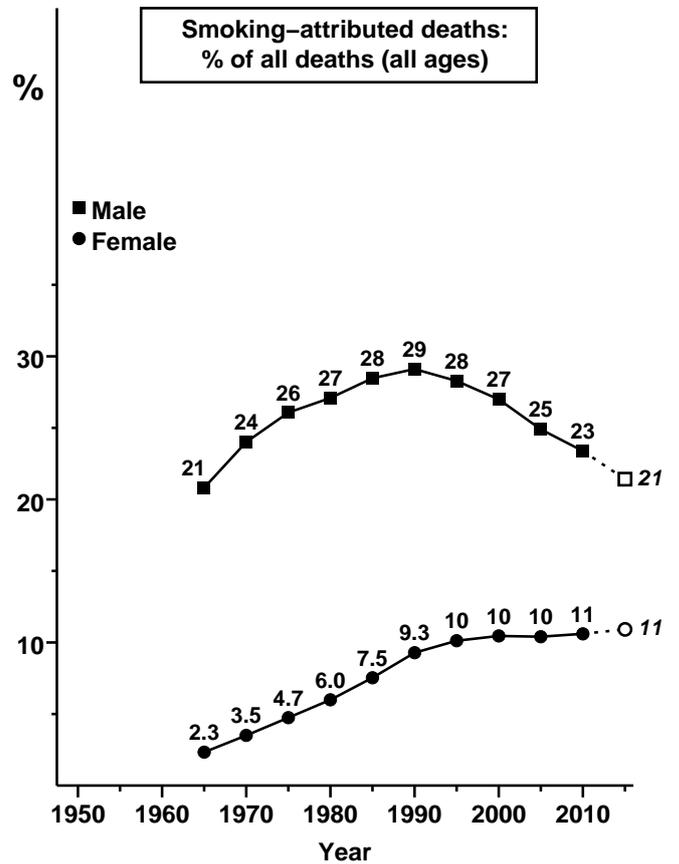
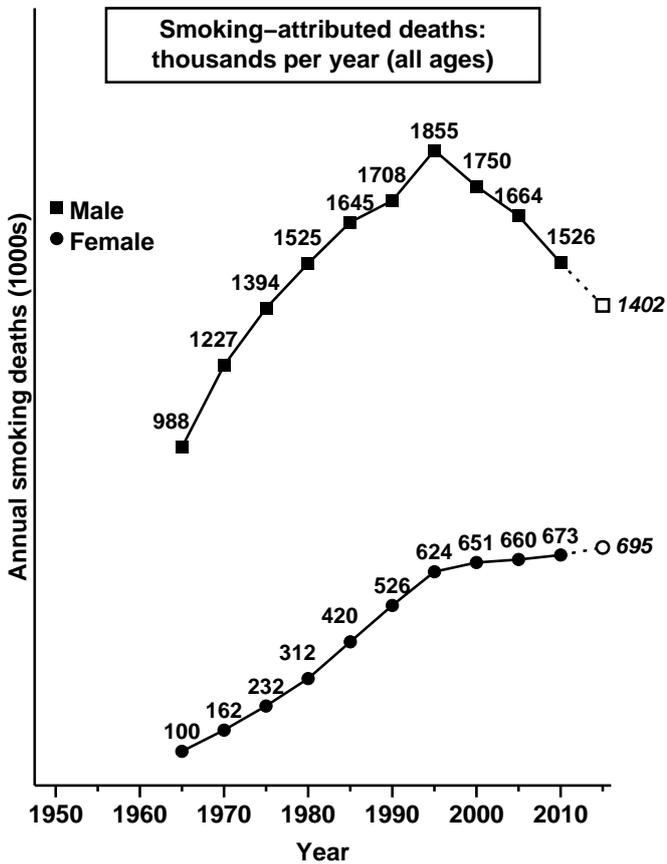
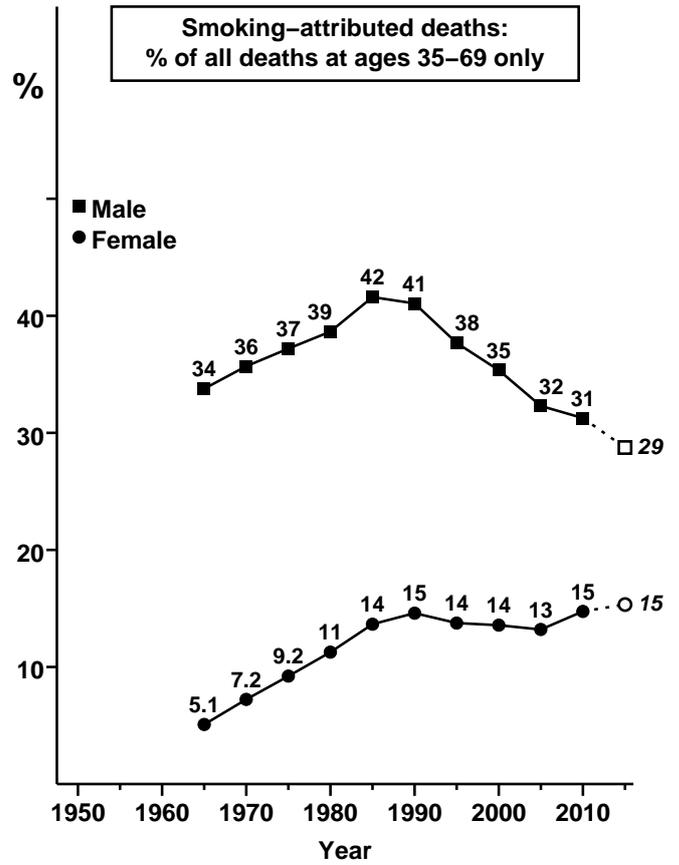
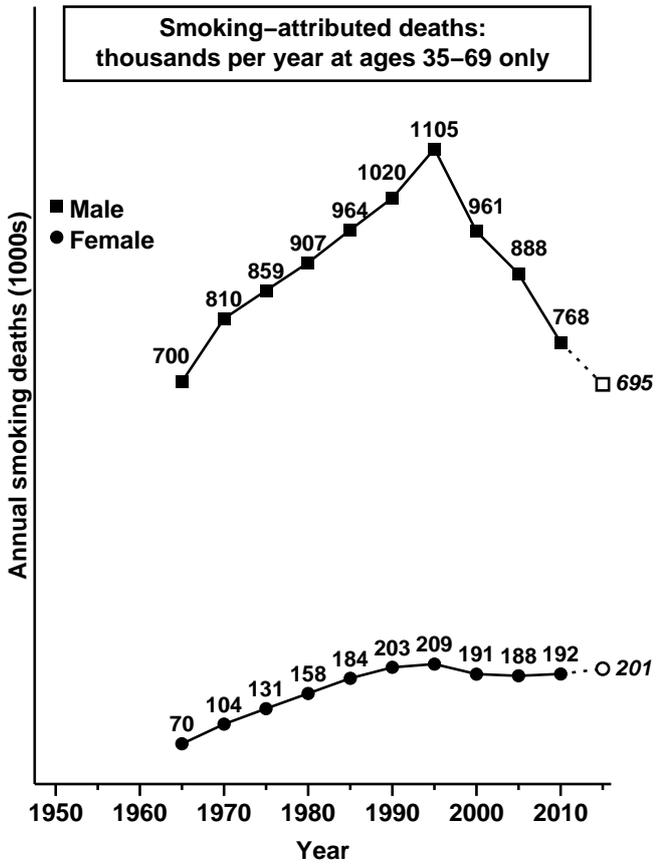
60–year total (M=millions), decade of 1960s to decade of 2010s (1960–2020*): 117 / 693M

*Estimated as 10 times the sum of the annual numbers for 1965, 1975, 1985, 1995, 2005 and 2015

1960–2020, by age & sex:

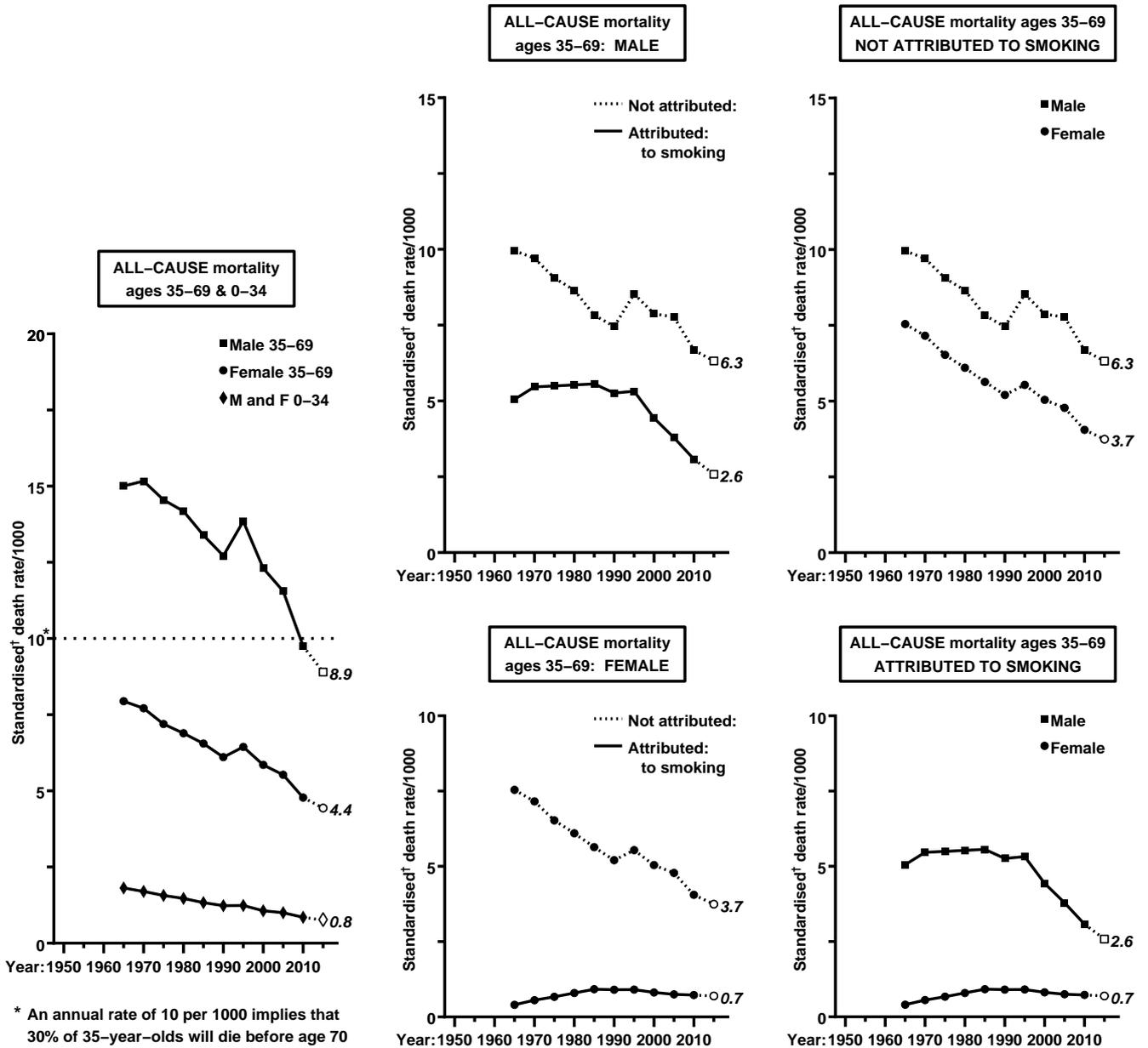
–/31M	52/148M (35%)	37/178M (21%)	89/357M	–/16M	9.8/84M (12%)	17/236M (7%)	27/336M
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1965-2015: ALL DEVELOPED COUNTRIES



ALL DEVELOPED COUNTRIES: 1965-2015

ALL-CAUSE mortality rates attributed and not attributed to smoking



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

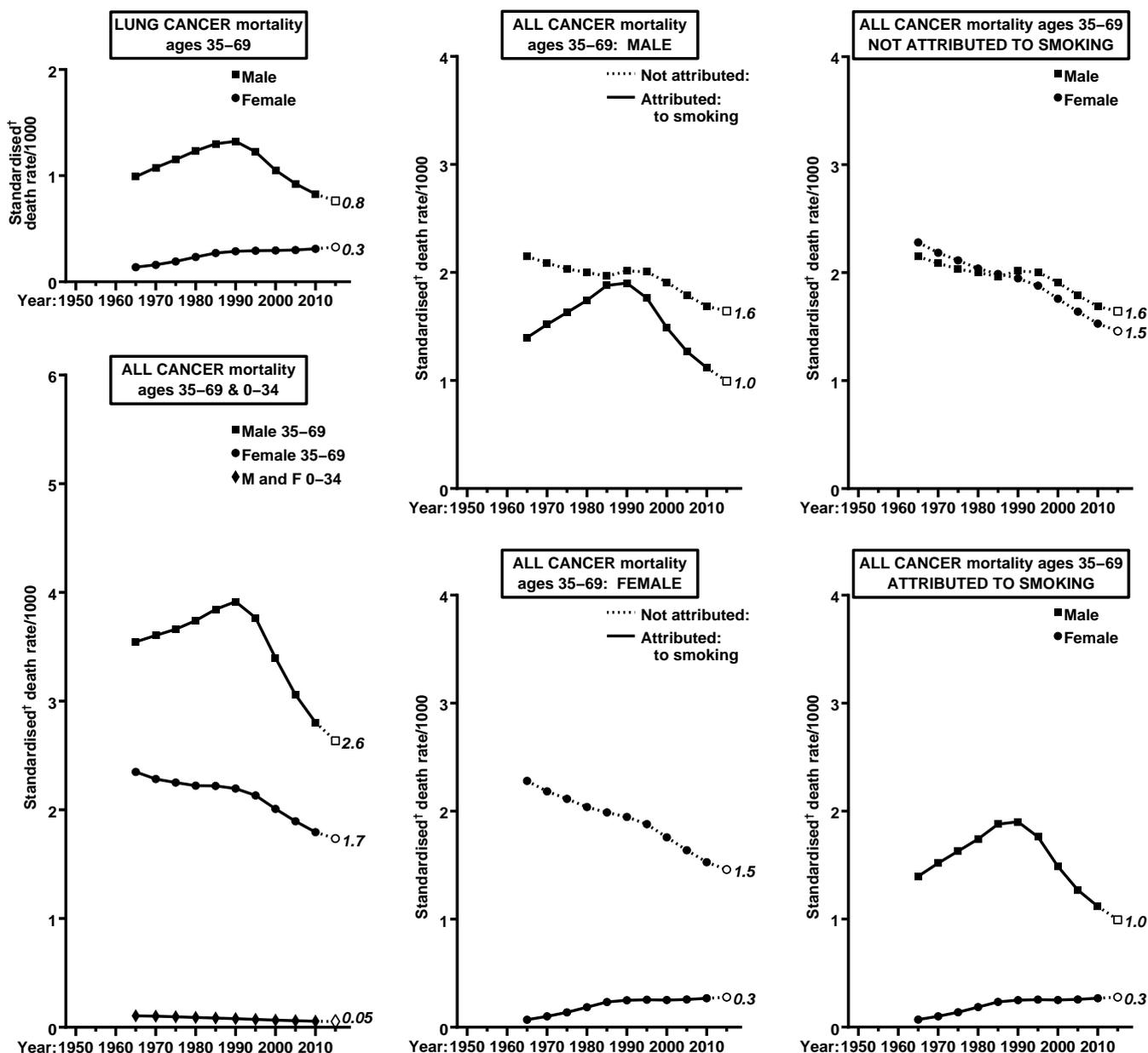
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

Year	MALE all-cause mortality (annual rate/1000, by age)						FEMALE all-cause mortality (annual rate/1000, by age)					
	0-34		35-69		70-79		0-34		35-69		70-79	
	Attributed to smoking?	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	
1950
1955
1960
1965	-	2.20	5.05	9.95	12.0	62.7	-	1.42	0.40	7.54	0.79	49.7
1970	-	2.13	5.46	9.70	15.8	59.9	-	1.26	0.56	7.15	1.25	47.9
1975	-	1.98	5.49	9.05	17.7	56.3	-	1.15	0.67	6.53	1.78	44.5
1980	-	1.89	5.53	8.65	17.5	52.4	-	1.04	0.79	6.10	2.23	40.7
1985	-	1.70	5.56	7.83	17.1	49.9	-	0.95	0.92	5.63	2.90	37.5
1990	-	1.62	5.26	7.45	16.5	43.7	-	0.84	0.90	5.20	3.78	33.0
1995	-	1.66	5.32	8.53	16.0	42.0	-	0.81	0.91	5.54	4.15	31.6
2000	-	1.43	4.43	7.87	14.2	39.8	-	0.69	0.81	5.04	3.77	30.0
2005	-	1.35	3.79	7.77	12.2	37.7	-	0.65	0.75	4.78	3.38	27.8
2010	-	1.13	3.08	6.67	10.1	33.5	-	0.57	0.73	4.05	3.03	24.2
2015	-	1.02	2.58	6.32	8.02	30.2	-	0.53	0.69	3.74	2.87	21.4

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

1965-2015: ALL DEVELOPED COUNTRIES

ALL CANCER mortality rates attributed and not attributed to smoking



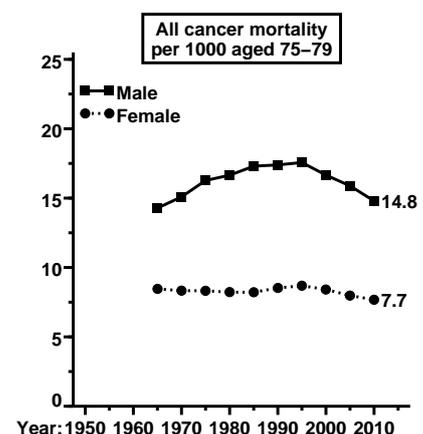
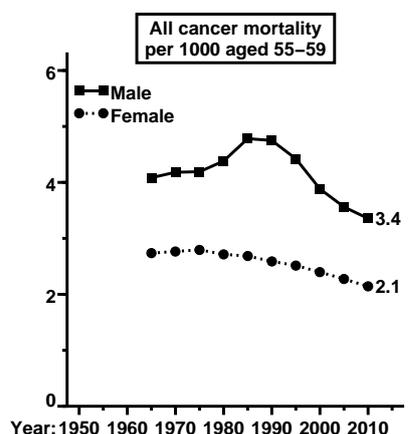
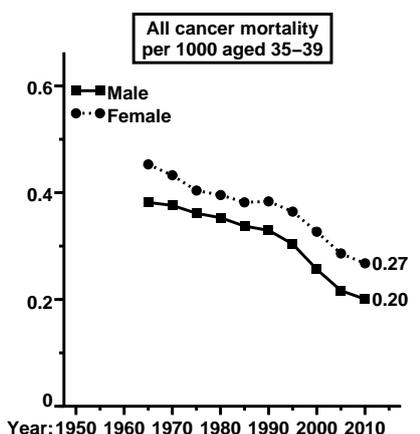
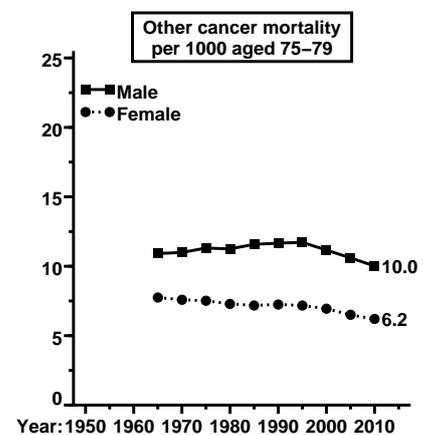
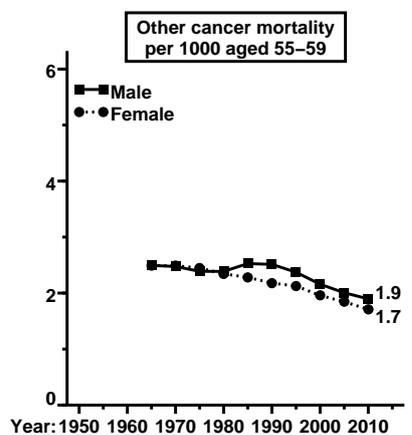
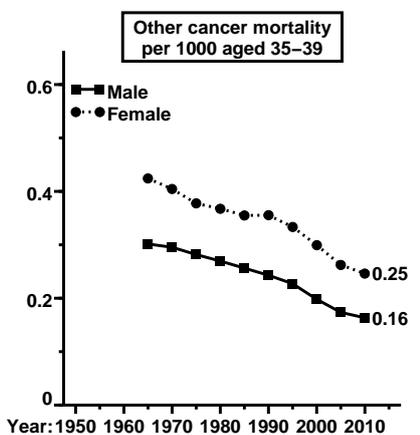
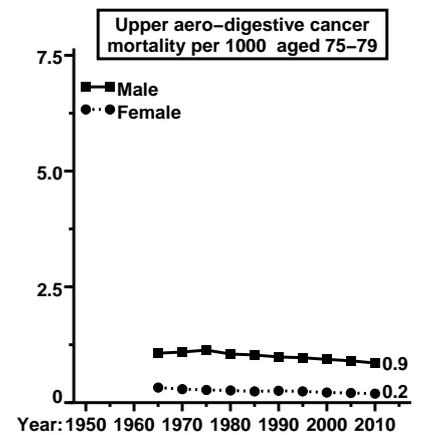
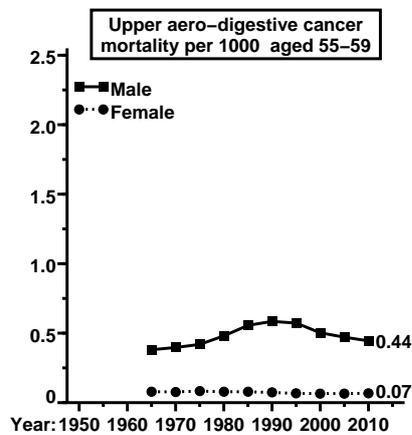
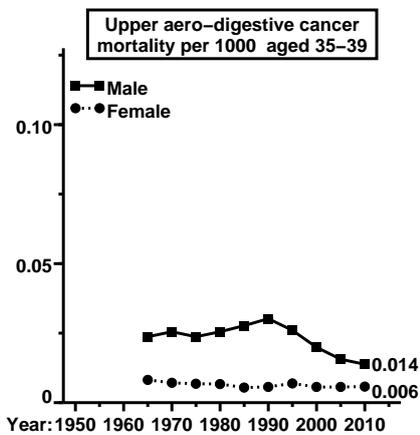
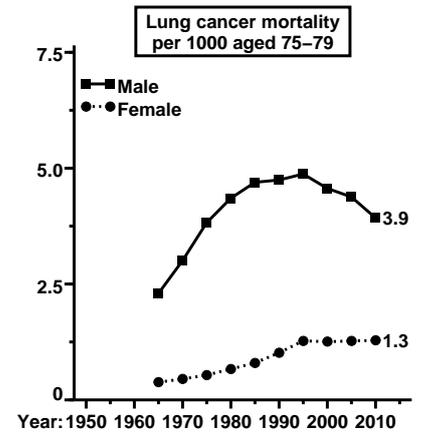
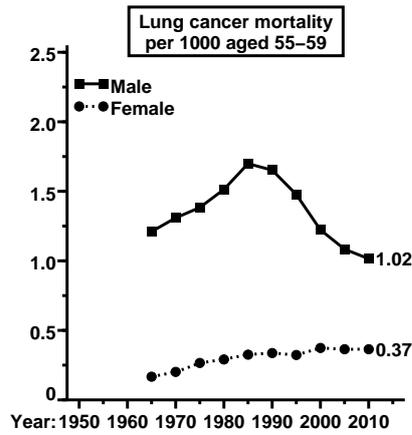
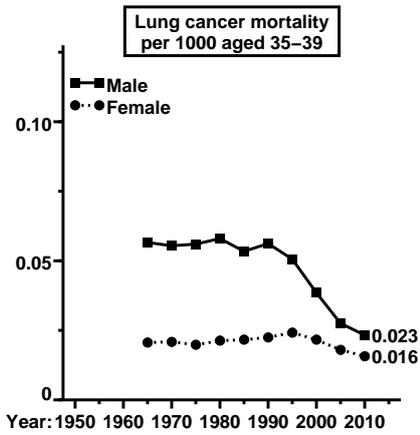
† Mean of 7 age-specific rates, ages 35-69 (or ages 0-34)

Year	MALE cancer mortality (annual rate/1000, by age)						FEMALE cancer mortality (annual rate/1000, by age)									
	Attributed to smoking?		0-34		35-69		70-79		Attributed to smoking?		0-34		35-69		70-79	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
1950
1955
1960
1965	-	0.11	1.40	2.15	3.19	9.96	-	0.10	0.07	2.28	0.10	7.54	-	0.09	0.10	7.28
1970	-	0.11	1.52	2.09	4.18	9.65	-	0.09	0.10	2.18	0.17	7.28	-	0.09	0.14	7.15
1975	-	0.10	1.63	2.03	5.04	9.71	-	0.09	0.14	2.11	0.28	7.15	-	0.08	0.18	6.88
1980	-	0.09	1.74	2.00	5.42	9.53	-	0.08	0.18	2.04	0.42	6.88	-	0.08	0.23	6.79
1985	-	0.09	1.88	1.96	5.71	9.63	-	0.08	0.23	1.99	0.62	6.79	-	0.07	0.25	6.78
1990	-	0.08	1.90	2.01	5.97	9.58	-	0.07	0.25	1.95	0.90	6.78	-	0.07	0.25	6.61
1995	-	0.07	1.76	2.00	5.96	9.52	-	0.07	0.25	1.88	1.07	6.61	-	0.06	0.26	6.37
2000	-	0.07	1.49	1.91	5.48	9.28	-	0.06	0.25	1.76	1.03	6.37	-	0.06	0.26	5.96
2005	-	0.06	1.27	1.79	4.98	8.88	-	0.06	0.26	1.64	1.03	5.96	-	0.05	0.27	5.68
2010	-	0.06	1.12	1.69	4.37	8.39	-	0.05	0.27	1.53	1.02	5.68	-	0.05	0.28	5.41
2015	-	0.05	0.99	1.64	3.76	8.02	-	0.05	0.28	1.46	1.06	5.41	-	0.05	0.28	5.41

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

ALL DEVELOPED COUNTRIES: 1965-2010

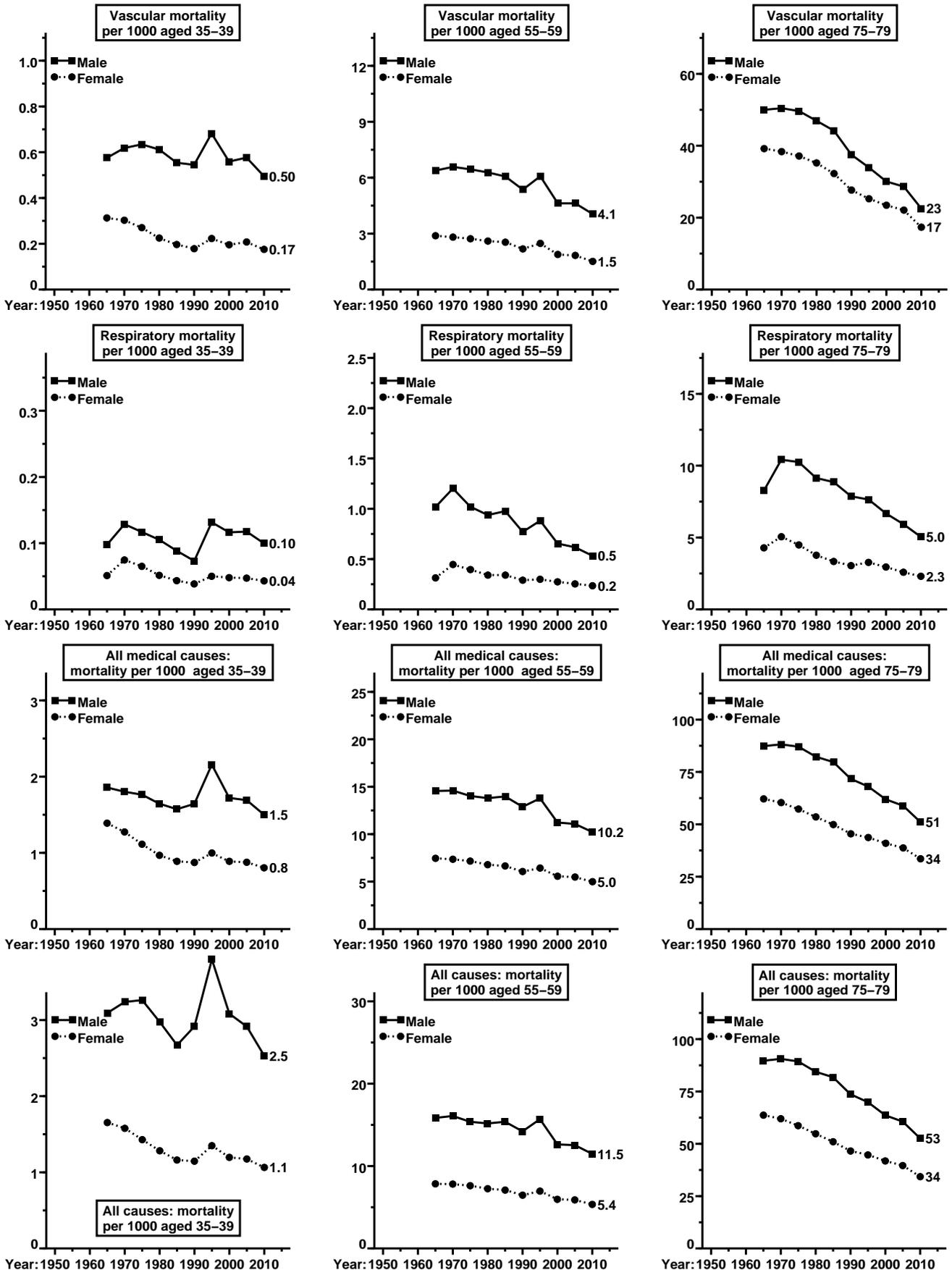
Mortality* trends at selected ages: 35–39, 55–59 & 75–79



* Annual mortality per 1000: 1965, 1970, 1975, 1980, 1985, 1990, 1995, 2000, 2005 and 2010

1965-2010: ALL DEVELOPED COUNTRIES

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



* Annual mortality per 1000: 1965, 1970, 1975, 1980, 1985, 1990, 1995, 2000, 2005 and 2010