

Table 4. Cause-specific number of death and crude mortality according to smoking status, by cohort and sex. (continued)

Cause of death	Cohort	Sex	Number of death					Crude mortality (/100,000 person-years)				
			Current smokers	Ex-smokers	Non-smokers	Ever-smokers	Total	Current smokers	Ex-smokers	Non-smokers	Ever-smokers	Total
Intracerebral hemorrhage 脳内出血	JPHC-I	Male	44	11	17	55	72	34.0	19.6	29.8	29.6	29.6
		Female	6	3	27	9	36	29.3	46.3	10.8	33.4	13.0
	JPHC-II	Male	51	20	17	71	88	33.3	27.7	24.0	31.5	29.7
		Female	9	2	46	11	57	36.9	39.7	14.6	37.4	16.6
	3-Pref	Male	64	31	23	95	118	29.7	33.7	35.6	30.9	31.7
		Female	16	6	78	22	100	37.3	45.3	24.3	39.2	26.5
	JACC	Male	112	55	35	167	202	51.1	50.7	40.5	50.9	48.8
		Female	10	3	121	13	134	34.1	34.3	24.5	34.1	25.2
	Pooled	Male	271	117	92	388	480	37.8	35.6	33.0	37.1	36.2
		Female	41	14	272	55	327	35.0	41.8	19.7	36.5	21.4
Cerebral infarction 脳梗塞	JPHC-I	Male	12	3	6	15	21	9.3	5.3	10.5	8.1	8.6
		Female	2	0	6	2	8	9.8	0.0	2.4	7.4	2.9
	JPHC-II	Male	49	29	21	78	99	32.0	40.2	29.7	34.6	33.4
		Female	5	1	39	6	45	20.5	19.9	12.4	20.4	13.1
	3-Pref	Male	152	96	52	248	300	70.7	104.4	80.4	80.8	80.7
		Female	26	8	167	34	201	60.6	60.3	52.0	60.5	53.3
	JACC	Male	147	93	62	240	302	67.0	85.7	71.8	73.2	72.9
		Female	15	8	190	23	213	51.1	91.4	38.5	60.3	40.0
	Pooled	Male	360	221	141	581	722	50.2	67.2	50.6	55.5	54.5
		Female	48	17	402	65	467	41.0	50.7	29.1	43.1	30.5
Aortic aneurysm and dissection 大動脈瘤および解離	JPHC-I	Male	8	1	0	9	9	6.2	1.8	0.0	4.8	3.7
		Female	0	0	3	0	3	0.0	0.0	1.2	0.0	1.1
	JPHC-II	Male	16	12	2	28	30	10.4	16.6	2.8	12.4	10.1
		Female	2	0	7	2	9	8.2	0.0	2.2	6.8	2.6
	3-Pref	Male	19	8	1	27	28	8.8	8.7	1.5	8.8	7.5
		Female	3	1	13	4	17	7.0	7.5	4.0	7.1	4.5
	JACC	Male	45	19	7	64	71	20.5	17.5	8.1	19.5	17.1
		Female	4	4	26	8	34	13.6	45.7	5.3	21.0	6.4
	Pooled	Male	88	40	10	128	138	12.3	12.2	3.6	12.2	10.4
		Female	9	5	49	14	63	7.7	14.9	3.6	9.3	4.1
Abdominal aortic aneurysm 腹部大動脈瘤	JPHC-I	Male	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
		Female	0	0	1	0	1	0.0	0.0	0.4	0.0	0.4
	JPHC-II	Male	8	2	0	10	10	5.2	2.8	0.0	4.4	3.4
		Female	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
	3-Pref	Male	7	3	0	10	10	3.3	3.3	0.0	3.3	2.7
		Female	1	0	5	1	6	2.3	0.0	1.6	1.8	1.6
	JACC	Male	18	5	4	23	27	8.2	4.6	4.6	7.0	6.5
		Female	2	2	3	4	7	6.8	22.9	0.6	10.5	1.3
	Pooled	Male	33	10	4	43	47	4.6	3.0	1.4	4.1	3.5
		Female	3	2	9	5	14	2.6	6.0	0.7	3.3	0.9

Table 4. Cause-specific number of death and crude mortality according to smoking status, by cohort and sex. (continued)

Cause of death	Cohort	Sex	Number of death					Crude mortality (/100,000 person-years)				
			Current smokers	Ex-smokers	Non-smokers	Ever-smokers	Total	Current smokers	Ex-smokers	Non-smokers	Ever-smokers	Total
Respiratory system diseases 全呼吸器疾患	JPHC-I	Male	38	20	15	58	73	29.3	35.6	26.3	31.2	30.1
		Female	2	1	29	3	32	9.8	15.4	11.6	11.1	11.5
	JPHC-II	Male	117	90	45	207	252	76.4	124.7	63.5	91.9	85.1
		Female	6	1	86	7	93	24.6	19.9	27.4	23.8	27.1
	3-Pref	Male	224	176	77	400	477	104.1	191.4	119.1	130.2	128.3
		Female	32	10	168	42	210	74.5	75.4	52.3	74.7	55.6
	JACC	Male	383	274	128	657	785	174.6	252.5	148.3	200.4	189.5
		Female	35	13	298	48	346	119.2	148.6	60.3	125.9	65.0
	Pooled	Male	762	560	265	1,322	1,587	106.2	170.3	95.0	126.4	119.8
		Female	75	25	581	100	681	64.0	74.6	42.1	66.4	44.5
Causally-tobacco-related respiratory diseases in total 喫煙と因果関係がある呼吸器疾患*	JPHC-I	Male	25	9	9	34	43	19.3	16.0	15.8	18.3	17.7
		Female	0	0	15	0	15	0.0	0.0	6.0	0.0	5.4
	JPHC-II	Male	78	55	31	133	164	50.9	76.2	43.8	59.0	55.4
		Female	4	1	52	5	57	16.4	19.9	16.6	17.0	16.6
	3-Pref	Male	169	130	62	299	361	78.6	141.3	95.9	97.4	97.1
		Female	21	7	117	28	145	48.9	52.8	36.4	49.8	38.4
	JACC	Male	269	195	100	464	564	122.6	179.7	115.9	141.5	136.2
		Female	22	11	203	33	236	74.9	125.7	41.1	86.6	44.4
	Pooled	Male	541	389	202	930	1132	75.4	118.3	72.4	88.9	85.4
		Female	47	19	387	66	453	40.1	56.7	28.0	43.8	29.6
Pneumonia 肺炎	JPHC-I	Male	19	8	9	27	36	14.7	14.2	15.8	14.5	14.8
		Female	0	0	15	0	15	0.0	0.0	6.0	0.0	5.4
	JPHC-II	Male	62	36	27	98	125	40.5	49.9	38.1	43.5	42.2
		Female	3	1	47	4	51	12.3	19.9	15.0	13.6	14.8
	3-Pref	Male	140	113	59	253	312	65.1	122.9	91.3	82.4	83.9
		Female	19	7	109	26	135	44.3	52.8	33.9	46.3	35.8
	JACC	Male	203	151	88	354	442	92.5	139.2	102.0	108.0	106.7
		Female	18	10	191	28	219	61.3	114.3	38.7	73.5	41.2
	Pooled	Male	424	308	183	732	915	59.1	93.7	65.6	70.0	69.1
		Female	40	18	362	58	420	34.1	53.7	26.2	38.5	27.4
Chronic obstructive pulmonary diseases 慢性閉塞性肺疾患 (COPD)	JPHC-I	Male	6	1	0	7	7	4.6	1.8	0.0	3.8	2.9
		Female	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
	JPHC-II	Male	16	19	4	35	39	10.4	26.3	5.6	15.5	13.2
		Female	1	0	5	1	6	4.1	0.0	1.6	3.4	1.7
	3-Pref	Male	29	17	3	46	49	13.5	18.5	4.6	15.0	13.2
		Female	2	0	8	2	10	4.7	0.0	2.5	3.6	2.6
	JACC	Male	66	44	12	110	122	30.1	40.6	13.9	33.5	29.5
		Female	4	1	12	5	17	13.6	11.4	2.4	13.1	3.2
	Pooled	Male	117	81	19	198	217	16.3	24.6	6.8	18.9	16.4
		Female	7	1	25	8	33	6.0	3.0	1.8	5.3	2.2
Asthma 喘息	JPHC-I	Male	2	3	0	5	5	1.5	5.3	0.0	2.7	2.1
		Female	1	0	3	1	4	4.9	0.0	1.2	3.7	1.4
	JPHC-II	Male	6	10	4	16	20	3.9	13.9	5.6	7.1	6.8
		Female	1	0	1	1	2	4.1	0.0	0.3	3.4	0.6
	3-Pref	Male	14	12	5	26	31	6.5	13.0	7.7	8.5	8.3
		Female	4	1	17	5	22	9.3	7.5	5.3	8.9	5.8
	JACC	Male	17	13	5	30	35	7.7	12.0	5.8	9.1	8.5
		Female	5	0	19	5	24	17.0	0.0	3.8	13.1	4.5
	Pooled	Male	39	38	14	77	91	5.4	11.6	5.0	7.4	6.9
		Female	11	1	40	12	52	9.4	3.0	2.9	8.0	3.4

Table 4. Cause-specific number of death and crude mortality according to smoking status, by cohort and sex. (continued)

Cause of death	Cohort	Sex	Number of death					Crude mortality (/100,000 person-years)				
			Current smokers	Ex-smokers	Non-smokers	Ever-smokers	Total	Current smokers	Ex-smokers	Non-smokers	Ever-smokers	Total
Digestive system diseases 全消化器疾患	JPHC-I	Male	46	10	9	56	65	35.5	17.8	15.8	30.1	26.8
		Female	3	0	15	3	18	14.6	0.0	6.0	11.1	6.5
	JPHC-II	Male	92	26	17	118	135	60.1	36.0	24.0	52.4	45.6
		Female	9	1	46	10	56	36.9	19.9	14.6	34.0	16.3
	3-Pref	Male	127	31	24	158	182	59.0	33.7	37.1	51.4	49.0
		Female	17	5	84	22	106	39.6	37.7	26.2	39.2	28.1
	JACC	Male	121	65	28	186	214	55.2	59.9	32.4	56.7	51.7
		Female	14	11	115	25	140	47.7	125.7	23.3	65.6	26.3
	Pooled	Male	386	132	78	518	596	53.8	40.1	28.0	49.5	45.0
		Female	43	17	260	60	320	36.7	50.7	18.8	39.8	20.9
Peptic ulcer 消化性潰瘍	JPHC-I	Male	2	0	0	2	2	1.5	0.0	0.0	1.1	0.8
		Female	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
	JPHC-II	Male	7	0	1	7	8	4.6	0.0	1.4	3.1	2.7
		Female	0	0	2	0	2	0.0	0.0	0.6	0.0	0.6
	3-Pref	Male	12	3	0	15	15	5.6	3.3	0.0	4.9	4.0
		Female	2	1	6	3	9	4.7	7.5	1.9	5.3	2.4
	JACC	Male	11	3	1	14	15	5.0	2.8	1.2	4.3	3.6
		Female	0	0	10	0	10	0.0	0.0	2.0	0.0	1.9
	Pooled	Male	32	6	2	38	40	4.5	1.8	0.7	3.6	3.0
		Female	2	1	18	3	21	1.7	3.0	1.3	2.0	1.4
Cirrhosis of liver 肝硬変	JPHC-I	Male	26	5	5	31	36	20.1	8.9	8.8	16.7	14.8
		Female	1	0	6	1	7	4.9	0.0	2.4	3.7	2.5
	JPHC-II	Male	42	7	6	49	55	27.4	9.7	8.5	21.7	18.6
		Female	3	1	21	4	25	12.3	19.9	6.7	13.6	7.3
	3-Pref	Male	55	11	12	66	78	25.6	12.0	18.6	21.5	21.0
		Female	8	2	34	10	44	18.6	15.1	10.6	17.8	11.7
	JACC	Male	46	32	11	78	89	21.0	29.5	12.7	23.8	21.5
		Female	5	5	37	10	47	17.0	57.2	7.5	26.2	8.8
	Pooled	Male	169	55	34	224	258	23.6	16.7	12.2	21.4	19.5
		Female	17	8	98	25	123	14.5	23.9	7.1	16.6	8.04

JPHC-I, II: 厚生労働省がん研究助成金指定研究班「多目的コホートに基づくがん予防など健康の維持・増進に役立つエビデンスの構築に関する研究」コホート, II

3-Pref: 大阪府立成人病センター、愛知県がんセンター、および東北大学医学部衛生学教室・公衆衛生学教室が大阪、愛知及び宮城で実施「3府県コホート研究」

JACC: 文部科学省科学研究費がん特定領域「ヒトがんの環境・宿主要因に関する疫学的研究」

* 喫煙と因果関係がある疾患: がん、口唇・口腔・咽頭、食道、胃、肝・肝内胆管、肺、喉頭、気管・気管支・肺、子宮頸部、「腎盂を除く腎」、腎盂・尿管・膀胱、骨髄性白血病)、
循環器疾患: 虚血性心疾患、脳卒中、腹大動脈瘤、呼吸器疾患: 肺炎、COPD、消化器疾患: 消化性潰瘍

Table 5. Cause-specific hazard ratio and population attributable fraction of smoking, by cohort and sex.

Cause of death	Cohort	Sex	Age-adjusted hazard ratio (vs. non-smokers) [95% confidence interval] †						Population attributable proportion ‡ [95% confidence interval]						
			Current smokers		Ex-smokers		Ever-smokers		Current smokers		Ex-smokers		Ever-smokers		
			Hazard Ratio	95% CI	Hazard Ratio	95% CI	Hazard Ratio	95% CI	Proportion	95% CI	Proportion	95% CI	Proportion	95% CI	
All causes 全死亡	JPHC-I	Male	1.57	[1.37; 1.81]	1.09	[0.82; 1.29]	1.41	[1.23; 1.62]	22.3%	[15.8%; 28.3%]	1.7%	[-1.7%; 5.0%]	24.0%	[15.0%; 32.0%]	
		Female	1.80	[1.25; 2.05]	1.27	[0.79; 2.03]	1.52	[1.21; 1.90]	3.7%	[1.3%; 6.0%]	0.5%	[-0.6%; 1.7%]	4.2%	[1.5%; 6.8%]	
	JPHC-II	Male	1.77	[1.80; 1.98]	1.31	[1.17; 1.47]	1.59	[1.45; 1.75]	24.7%	[20.8%; 28.4%]	6.4%	[3.8%; 8.9%]	31.2%	[25.5%; 36.5%]	
		Female	1.99	[1.68; 2.35]	1.71	[1.22; 2.39]	1.83	[1.68; 2.25]	5.1%	[3.5%; 6.7%]	0.9%	[0.2%; 1.7%]	8.0%	[4.2%; 7.8%]	
	3-Pref	Male	1.55	[1.43; 1.68]	1.28	[1.17; 1.40]	1.45	[1.34; 1.57]	20.8%	[17.4%; 24.1%]	6.1%	[4.0%; 8.2%]	26.9%	[21.7%; 31.7%]	
		Female	1.48	[1.35; 1.62]	1.44	[1.28; 1.60]	1.47	[1.35; 1.59]	5.1%	[3.7%; 6.5%]	2.0%	[1.1%; 2.9%]	7.1%	[5.4%; 8.8%]	
	JACC	Male	1.61	[1.50; 1.73]	1.27	[1.18; 1.37]	1.47	[1.37; 1.57]	20.6%	[17.0%; 23.2%]	6.5%	[4.4%; 8.5%]	27.0%	[22.6%; 31.0%]	
		Female	1.72	[1.54; 1.93]	1.71	[1.44; 2.03]	1.72	[1.56; 1.89]	3.6%	[2.7%; 4.5%]	1.5%	[0.9%; 2.1%]	5.1%	[4.0%; 6.2%]	
	Pooled	Male	1.63	[1.56; 1.70]	1.27	[1.21; 1.33]	1.49	[1.43; 1.55]	21.9%	[20.1%; 23.7%]	5.9%	[4.7%; 7.1%]	27.8%	[25.2%; 30.4%]	
		Female	1.76	[1.65; 1.87]	1.68	[1.52; 1.86]	1.73	[1.64; 1.83]	5.0%	[4.3%; 5.6%]	1.8%	[1.3%; 2.2%]	6.7%	[5.9%; 7.5%]	
	All causes 全死亡	Pooled†	Male						14.7%	[12.0%; 16.4%]	4.4%	[3.5%; 5.3%]	19.1%	[16.0%; 22.2%]	
			Female						2.9%	[2.3%; 3.4%]	0.8%	[0.5%; 1.0%]	3.6%	[3.0%; 4.2%]	
Both‡								10.3%	[8.2%; 11.5%]	3.1%	[2.5%; 3.7%]	13.4%	[11.4%; 15.4%]		
Causally-tobacco- related diseases in total 喫煙と因果関係 がある疾患全体*	JPHC-I	Male	1.80	[1.48; 2.21]	1.22	[0.95; 1.56]	1.80	[1.31; 1.96]	27.7%	[18.7%; 35.7%]	3.8%	[-1.0%; 8.4%]	31.5%	[18.8%; 42.2%]	
		Female	2.43	[1.75; 3.40]	1.28	[0.60; 2.71]	2.15	[1.57; 2.93]	8.3%	[3.9%; 12.5%]	0.5%	[-1.3%; 2.3%]	8.8%	[4.0%; 13.4%]	
	JPHC-II	Male	2.08	[1.81; 2.40]	1.46	[1.25; 1.71]	1.84	[1.80; 2.11]	30.3%	[25.3%; 35.1%]	8.6%	[5.1%; 12.0%]	39.1%	[31.5%; 45.8%]	
		Female	2.34	[1.85; 2.98]	2.03	[1.27; 3.25]	2.28	[1.83; 2.83]	6.5%	[4.0%; 9.0%]	1.4%	[0.1%; 2.6%]	7.9%	[5.0%; 10.6%]	
	3-Pref	Male	1.68	[1.50; 1.89]	1.34	[1.18; 1.52]	1.55	[1.39; 1.74]	24.2%	[19.4%; 28.6%]	7.1%	[4.1%; 8.9%]	31.2%	[24.1%; 37.6%]	
		Female	1.68	[1.45; 1.91]	1.48	[1.19; 1.83]	1.61	[1.42; 1.82]	6.8%	[4.7%; 9.2%]	2.1%	[0.8%; 3.5%]	9.1%	[6.4%; 11.7%]	
	JACC	Male	1.87	[1.70; 2.07]	1.43	[1.28; 1.59]	1.68	[1.53; 1.85]	25.9%	[22.3%; 29.2%]	9.2%	[6.6%; 11.8%]	35.0%	[29.5%; 40.0%]	
		Female	2.01	[1.72; 2.34]	1.80	[1.24; 2.06]	1.88	[1.65; 2.16]	4.9%	[3.5%; 6.4%]	1.3%	[0.4%; 2.1%]	6.2%	[4.5%; 7.9%]	
	Pooled	Male	1.85	[1.74; 1.97]	1.40	[1.30; 1.50]	1.67	[1.57; 1.78]	28.7%	[24.3%; 28.9%]	8.0%	[6.4%; 8.6%]	34.7%	[31.2%; 38.0%]	
		Female	2.00	[1.83; 2.19]	1.65	[1.42; 1.91]	1.90	[1.75; 2.06]	6.5%	[5.4%; 7.5%]	1.7%	[1.0%; 2.3%]	8.1%	[6.9%; 9.4%]	
	All cancers 全がん	JPHC-I	Male	1.65	[1.32; 2.07]	1.29	[0.99; 1.67]	1.53	[1.23; 1.90]	23.5%	[13.0%; 32.4%]	5.2%	[-0.3%; 10.4%]	28.8%	[14.6%; 40.6%]
			Female	1.58	[1.11; 2.24]	0.98	[0.46; 2.07]	1.43	[1.04; 1.96]	3.6%	[0.2%; 6.8%]	0.0%	[-1.5%; 1.4%]	3.5%	[-0.2%; 7.1%]
JPHC-II		Male	2.10	[1.79; 2.48]	1.48	[1.24; 1.78]	1.85	[1.59; 2.16]	30.6%	[24.6%; 35.9%]	8.8%	[4.8%; 12.5%]	39.5%	[31.0%; 47.0%]	
		Female	1.34	[1.00; 1.79]	1.64	[0.99; 2.75]	1.40	[1.08; 1.81]	1.8%	[-0.3%; 4.0%]	0.9%	[-0.3%; 2.0%]	2.8%	[0.3%; 5.2%]	
3-Pref		Male	1.87	[1.63; 2.15]	1.43	[1.23; 1.67]	1.71	[1.49; 1.96]	29.0%	[23.5%; 34.1%]	8.0%	[4.7%; 11.1%]	36.9%	[28.8%; 44.0%]	
		Female	1.48	[1.25; 1.74]	1.46	[1.14; 1.87]	1.47	[1.28; 1.70]	5.1%	[2.6%; 7.5%]	1.9%	[0.4%; 3.4%]	7.0%	[4.1%; 9.6%]	
JACC		Male	2.04	[1.80; 2.30]	1.60	[1.40; 1.83]	1.86	[1.65; 2.09]	29.0%	[24.7%; 33.0%]	11.4%	[8.4%; 14.4%]	40.4%	[33.8%; 46.2%]	
		Female	1.61	[1.33; 1.96]	1.63	[1.21; 2.21]	1.62	[1.37; 1.91]	3.1%	[1.5%; 4.6%]	1.3%	[0.3%; 2.2%]	4.3%	[2.5%; 6.1%]	
Pooled		Male	1.97	[1.83; 2.13]	1.50	[1.38; 1.63]	1.79	[1.67; 1.93]	29.3%	[26.5%; 31.9%]	8.3%	[7.5%; 11.1%]	39.8%	[34.5%; 42.3%]	
		Female	1.57	[1.41; 1.75]	1.57	[1.32; 1.87]	1.57	[1.43; 1.73]	3.8%	[2.7%; 4.8%]	1.4%	[0.7%; 2.0%]	5.2%	[3.9%; 6.5%]	
All cancers 全がん		Pooled†	Male						20.4%	[17.9%; 22.9%]	6.6%	[5.2%; 7.9%]	27.0%	[22.8%; 31.1%]	
			Female						3.5%	[2.6%; 4.5%]	1.0%	[0.5%; 1.5%]	4.4%	[3.3%; 5.5%]	
	Both‡							18.2%	[15.9%; 20.5%]	5.5%	[4.4%; 6.5%]	23.6%	[19.4%; 27.8%]		
Causally-tobacco- related cancers in total 喫煙と因果関係 があるがん*	JPHC-I	Male	2.08	[1.55; 2.73]	1.45	[1.05; 2.01]	1.88	[1.41; 2.45]	32.5%	[21.1%; 42.3%]	7.0%	[0.8%; 12.8%]	39.5%	[23.4%; 52.2%]	
		Female	2.32	[1.48; 3.64]	0.32	[0.05; 2.31]	1.82	[1.17; 2.84]	7.7%	[1.8%; 13.2%]	-1.3%	[-2.5%; -0.1%]	6.4%	[0.4%; 12.1%]	
	JPHC-II	Male	2.41	[1.99; 2.92]	1.58	[1.28; 1.95]	2.09	[1.73; 2.51]	35.8%	[29.2%; 41.4%]	9.7%	[5.3%; 13.8%]	45.4%	[35.8%; 53.5%]	
		Female	1.75	[1.22; 2.53]	1.82	[0.99; 3.72]	1.79	[1.29; 2.48]	3.9%	[0.7%; 7.1%]	1.2%	[-0.5%; 2.9%]	5.2%	[1.5%; 8.7%]	
	3-Pref	Male	2.25	[1.90; 2.66]	1.57	[1.31; 1.90]	2.00	[1.70; 2.37]	38.2%	[30.1%; 41.7%]	9.2%	[5.6%; 12.6%]	45.2%	[36.3%; 52.9%]	
		Female	1.82	[1.48; 2.24]	1.77	[1.30; 2.42]	1.81	[1.51; 2.17]	8.4%	[4.6%; 11.8%]	3.2%	[1.0%; 5.3%]	11.6%	[7.3%; 15.6%]	
	JACC	Male	2.34	[2.01; 2.72]	1.75	[1.49; 2.05]	2.10	[1.81; 2.43]	33.8%	[28.0%; 38.4%]	12.7%	[9.3%; 16.0%]	46.5%	[39.1%; 52.9%]	
		Female	2.08	[1.64; 2.64]	1.56	[1.03; 2.37]	1.83	[1.57; 2.39]	5.3%	[3.0%; 7.6%]	1.1%	[-0.2%; 2.4%]	6.4%	[3.7%; 9.0%]	
	Pooled	Male	2.32	[2.12; 2.54]	1.64	[1.49; 1.82]	2.06	[1.89; 2.26]	35.2%	[32.1%; 38.1%]	10.5%	[8.5%; 12.5%]	45.7%	[41.2%; 48.8%]	
		Female	2.01	[1.78; 2.30]	1.70	[1.35; 2.14]	1.93	[1.71; 2.17]	6.5%	[4.6%; 8.2%]	1.7%	[0.8%; 2.6%]	8.3%	[6.3%; 10.1%]	

Table 5. Cause-specific hazard ratio and population attributable fraction of smoking, by cohort and sex. (continued)

Cause of death	Cohort	Sex	Age-adjusted hazard ratio (vs. non-smokers) [95% confidence interval] †						Population attributable proportion * [95% confidence interval]						
			Current smokers		Ex-smokers		Ever-smokers		Current smokers		Ex-smokers		Ever-smokers		
			HR	95% CI	HR	95% CI	HR	95% CI	PAF	95% CI	PAF	95% CI	PAF	95% CI	
Cancer of lip, oral cavity, and pharynx 口唇・口腔・咽頭がん	JPHC-I	Male	2.77	[0.33; 23.05]	1.74	[0.16; 19.31]	2.42	[0.30; 19.38]	42.6%	[-7.7%; 81.7%]	8.5%	[-39.6%; 41.3%]	52.2%	[-203.8%; 92.5%]	
		Female	-	-	-	-	-	-	-	-	-	-	-	-	
	JPHC-II	Male	4.87	[1.13; 20.90]	4.03	[0.88; 18.47]	4.55	[1.08; 19.06]	48.7%	[11.9%; 70.1%]	24.3%	[-0.2%; 42.8%]	73.0%	[-3.3%; 92.9%]	
		Female	2.80	[0.34; 22.82]	-	-	2.15	[0.28; 17.48]	8.0%	[-10.5%; 29.2%]	-	-	8.7%	[-21.3%; 28.2%]	
	3-Pref	Male	1.82	[0.74; 4.85]	1.37	[0.48; 3.94]	1.73	[0.68; 4.38]	31.2%	[-17.4%; 58.7%]	6.4%	[-16.8%; 25.1%]	37.6%	[-42.8%; 72.7%]	
		Female	1.05	[0.13; 8.57]	2.77	[0.34; 22.75]	1.52	[0.32; 7.35]	0.6%	[-25.5%; 21.2%]	7.1%	[-17.1%; 28.3%]	7.6%	[-31.0%; 34.9%]	
	JACC	Male	2.42	[0.83; 6.30]	1.57	[0.55; 4.45]	2.07	[0.82; 5.25]	38.0%	[-2.7%; 60.2%]	9.9%	[-14.4%; 29.0%]	45.8%	[-23.7%; 78.3%]	
		Female	3.21	[0.71; 14.49]	-	-	2.22	[0.49; 10.05]	10.8%	[-12.7%; 28.1%]	-	-	8.5%	[-15.4%; 27.4%]	
	Pooled	Male	2.68	[1.48; 4.77]	1.89	[1.00; 3.58]	2.37	[1.34; 4.20]	39.3%	[18.0%; 54.6%]	12.7%	[0.3%; 23.6%]	52.0%	[18.8%; 71.4%]	
		Female	1.87	[0.69; 5.85]	1.23	[0.17; 9.12]	1.78	[0.88; 4.59]	8.4%	[-7.2%; 18.2%]	0.6%	[-6.0%; 6.8%]	7.0%	[-8.6%; 20.3%]	
	Cancer of esophagus 食道がん	JPHC-I	Male	1.95	[0.80; 4.78]	0.92	[0.30; 2.87]	1.61	[0.67; 3.85]	32.9%	[-16.1%; 61.3%]	-1.3%	[-22.4%; 18.1%]	31.7%	[-42.2%; 87.2%]
			Female	-	-	-	-	-	-	-	-	-	-	-	-
JPHC-II		Male	2.75	[1.23; 6.16]	2.88	[1.24; 6.68]	2.80	[1.28; 6.11]	34.5%	[9.0%; 52.6%]	23.3%	[5.7%; 37.6%]	57.9%	[14.9%; 78.1%]	
		Female	-	-	20.61	[2.14; 198.15]	5.13	[0.53; 49.34]	-	-	23.8%	[-34.2%; 56.7%]	20.1%	[-40.6%; 54.6%]	
3-Pref		Male	3.75	[1.73; 8.12]	1.88	[0.71; 4.00]	3.04	[1.41; 6.54]	55.7%	[31.0%; 71.5%]	7.1%	[-4.8%; 17.5%]	62.8%	[23.8%; 81.8%]	
		Female	1.68	[0.47; 5.83]	2.48	[0.58; 11.00]	1.91	[0.68; 5.37]	6.6%	[-14.9%; 24.1%]	6.6%	[-10.0%; 20.7%]	13.3%	[-15.5%; 34.9%]	
JACC		Male	4.74	[2.05; 10.93]	3.41	[1.42; 8.20]	4.23	[1.85; 9.64]	51.3%	[32.0%; 65.2%]	20.6%	[7.8%; 31.6%]	71.9%	[39.9%; 87.1%]	
		Female	2.13	[0.49; 8.22]	2.55	[0.34; 19.23]	2.25	[0.68; 7.70]	5.3%	[-9.6%; 18.2%]	3.0%	[-7.2%; 12.3%]	8.3%	[-10.2%; 23.8%]	
Pooled		Male	3.39	[2.25; 5.09]	2.22	[1.43; 3.48]	2.98	[1.88; 4.42]	47.0%	[35.3%; 58.5%]	13.8%	[6.7%; 20.4%]	60.8%	[43.4%; 72.9%]	
		Female	1.90	[0.74; 4.88]	3.59	[1.27; 10.16]	2.40	[1.15; 5.02]	5.5%	[-5.3%; 15.2%]	8.7%	[-2.7%; 15.2%]	12.2%	[-2.4%; 24.7%]	
Cancer of stomach 胃がん		JPHC-I	Male	1.14	[0.71; 1.81]	1.09	[0.64; 1.88]	1.12	[0.72; 1.75]	6.3%	[-18.2%; 26.4%]	2.1%	[-11.7%; 14.2%]	8.4%	[-28.6%; 35.3%]
			Female	1.38	[0.49; 3.88]	-	-	1.05	[0.37; 2.93]	2.5%	[-7.1%; 11.2%]	-	-	0.4%	[-9.4%; 8.3%]
	JPHC-II	Male	1.93	[1.33; 2.81]	1.30	[0.85; 1.98]	1.89	[1.18; 2.42]	28.3%	[13.3%; 40.7%]	6.0%	[-3.9%; 14.9%]	34.4%	[11.1%; 51.7%]	
		Female	1.20	[0.52; 2.78]	-	-	0.97	[0.42; 2.22]	1.2%	[-4.9%; 6.9%]	-	-	-0.2%	[-6.4%; 5.5%]	
	3-Pref	Male	1.43	[1.07; 1.90]	1.22	[0.89; 1.68]	1.38	[1.03; 1.79]	17.6%	[3.8%; 29.4%]	5.1%	[-2.9%; 12.5%]	22.8%	[1.7%; 39.1%]	
		Female	1.25	[0.83; 1.88]	1.69	[1.00; 2.88]	1.37	[0.98; 1.92]	2.7%	[-2.8%; 7.8%]	3.0%	[-0.8%; 6.6%]	5.7%	[-1.2%; 12.1%]	
	JACC	Male	1.48	[1.14; 1.87]	1.34	[1.03; 1.75]	1.41	[1.12; 1.79]	16.4%	[6.0%; 25.7%]	8.2%	[0.8%; 15.0%]	24.6%	[8.0%; 38.2%]	
		Female	0.78	[0.39; 1.49]	1.28	[0.56; 2.85]	0.91	[0.54; 1.53]	-1.3%	[-4.0%; 1.5%]	0.6%	[-1.8%; 2.7%]	-0.7%	[-4.3%; 2.8%]	
	Pooled	Male	1.51	[1.28; 1.77]	1.28	[1.08; 1.52]	1.42	[1.22; 1.66]	18.6%	[12.1%; 24.9%]	8.4%	[2.0%; 10.6%]	25.1%	[15.0%; 34.1%]	
		Female	1.22	[0.80; 1.84]	1.47	[0.85; 2.27]	1.29	[1.00; 1.66]	1.5%	[-1.0%; 4.0%]	1.2%	[-0.4%; 2.8%]	2.7%	[-0.4%; 5.7%]	
	Cancer of small intestine 小腸がん	JPHC-I	Male	1.37	[0.14; 13.22]	1.75	[0.16; 18.38]	1.50	[0.18; 12.87]	13.6%	[-146.0%; 89.7%]	14.2%	[-68.5%; 56.6%]	27.8%	[-332.5%; 88.0%]
			Female	-	-	-	-	-	-	-	-	-	-	-	-
JPHC-II		Male	-	-	-	-	-	-	-	-	-	-	-	-	
		Female	-	-	-	-	-	-	-	-	-	-	-	-	
3-Pref		Male	-	-	-	-	-	-	-	-	-	-	-	-	
		Female	-	-	-	-	-	-	-	-	-	-	-	-	
JACC		Male	1.82	[0.20; 16.40]	2.64	[0.29; 23.88]	2.16	[0.27; 17.30]	20.1%	[-76.8%; 63.8%]	27.6%	[-47.6%; 64.5%]	47.8%	[-231.8%; 91.8%]	
		Female	-	-	-	-	-	-	-	-	-	-	-	-	
Pooled		Male	3.31	[0.78; 14.38]	2.52	[0.52; 12.18]	3.02	[0.71; 12.81]	44.6%	[-8.8%; 71.8%]	16.9%	[-12.2%; 38.5%]	61.5%	[-45.3%; 89.8%]	
		Female	-	-	-	-	-	-	-	-	-	-	-	-	
Cancer of colon 結腸がん		JPHC-I	Male	1.49	[0.54; 4.08]	2.13	[0.75; 6.05]	1.71	[0.68; 4.42]	15.9%	[-30.2%; 45.7%]	10.3%	[-9.5%; 40.5%]	35.1%	[-45.6%; 71.1%]
			Female	0.49	[0.07; 3.68]	-	-	0.37	[0.05; 2.78]	-4.0%	[-12.3%; 3.8%]	-	-	-8.4%	[-15.0%; 1.5%]
	JPHC-II	Male	1.64	[0.83; 3.23]	1.25	[0.59; 2.63]	1.48	[0.77; 2.83]	21.0%	[-9.6%; 43.1%]	5.8%	[-15.4%; 23.1%]	28.9%	[-25.3%; 57.4%]	
		Female	0.64	[0.15; 2.63]	2.61	[0.63; 10.73]	1.03	[0.37; 2.88]	-2.1%	[-7.6%; 3.1%]	2.3%	[-3.0%; 7.3%]	0.2%	[-7.8%; 7.5%]	
	3-Pref	Male	1.28	[0.78; 2.09]	1.52	[0.89; 2.58]	1.35	[0.83; 2.20]	10.8%	[-14.3%; 30.4%]	11.6%	[-3.5%; 24.4%]	22.5%	[-17.7%; 49.0%]	
		Female	0.81	[0.28; 1.31]	0.42	[0.10; 1.72]	0.55	[0.28; 1.10]	-4.9%	[-11.2%; 1.0%]	-2.9%	[-8.1%; 0.2%]	-7.8%	[-15.3%; -0.9%]	
	JACC	Male	1.20	[0.73; 1.98]	1.31	[0.79; 2.19]	1.25	[0.79; 1.97]	7.9%	[-15.0%; 28.1%]	8.4%	[-8.2%; 22.4%]	16.2%	[-22.4%; 42.7%]	
		Female	0.47	[0.15; 1.49]	1.54	[0.57; 4.18]	0.78	[0.38; 1.68]	-2.8%	[-5.8%; 0.1%]	1.2%	[-2.2%; 4.4%]	-1.6%	[-6.3%; 2.8%]	
	Pooled	Male	1.37	[1.02; 1.84]	1.48	[1.08; 2.02]	1.41	[1.06; 1.87]	13.6%	[0.8%; 24.8%]	10.9%	[2.1%; 18.9%]	24.5%	[4.2%; 40.5%]	
		Female	0.61	[0.35; 1.08]	1.00	[0.49; 2.02]	0.72	[0.46; 1.12]	-2.8%	[-5.4%; -0.3%]	0.0%	[-1.9%; 1.9%]	-2.8%	[-8.2%; 0.4%]	
	Cancer of rectosigmoid junction and rectum 直腸がん	JPHC-I	Male	2.78	[0.81; 9.37]	1.63	[0.39; 8.83]	2.40	[0.72; 7.99]	44.2%	[-12.8%; 72.3%]	7.4%	[-18.5%; 28.5%]	51.6%	[-40.4%; 83.3%]
			Female	1.69	[0.51; 5.82]	1.74	[0.24; 12.85]	1.70	[0.59; 4.91]	4.2%	[-8.4%; 15.4%]	1.5%	[-5.6%; 6.0%]	5.7%	[-9.1%; 18.5%]
JPHC-II		Male	2.59	[1.15; 5.83]	1.58	[0.63; 3.88]	2.20	[1.00; 4.84]	38.8%	[7.2%; 59.7%]	8.8%	[-10.2%; 24.5%]	47.8%	[-4.8%; 73.9%]	
		Female	0.94	[0.09; 4.72]	-	-	0.51	[0.07; 3.77]	-2.1%	[-10.0%; 5.2%]	-	-	-3.8%	[-11.5%; 3.9%]	
3-Pref		Male	1.40	[0.88; 2.91]	1.08	[0.48; 2.44]	1.29	[0.84; 2.61]	17.4%	[-24.4%; 45.1%]	1.8%	[-20.1%; 18.6%]	19.1%	[-48.2%; 55.8%]	
		Female	0.75	[0.23; 2.46]	1.30	[0.31; 5.47]	0.90	[0.35; 2.33]	-3.0%	[-14.4%; 7.3%]	1.4%	[-7.3%; 9.3%]	-1.6%	[-18.9%; 11.6%]	
JACC		Male	1.30	[0.77; 2.19]	1.07	[0.80; 1.90]	1.21	[0.74; 1.99]	12.5%	[-14.0%; 32.9%]	1.8%	[-15.2%; 16.3%]	14.3%	[-28.8%; 43.0%]	
		Female	1.65	[0.59; 4.60]	1.09	[0.15; 7.94]	1.50	[0.59; 3.78]	3.3%	[-5.3%; 11.2%]	0.2%	[-4.0%; 4.2%]	3.5%	[-8.3%; 12.3%]	
Pooled		Male	1.65	[1.16; 2.38]	1.21	[0.81; 1.81]	1.49	[1.05; 2.10]	23.3%	[7.3%; 38.6%]	4.5%	[-5.2%; 13.3%]	27.8%	[3.3%; 48.2%]	
		Female	1.14	[0.61; 2.11]	1.21	[0.45; 3.29]	1.18	[0.68; 1.88]	1.0%	[-4.0%; 5.7%]	0.5%	[-2.4%; 3.3%]	1.5%	[-4.4%; 7.1%]	

Table 5. Cause-specific hazard ratio and population attributable fraction of smoking, by cohort and sex (continued)

Cause of death	Cohort	Sex	Age-adjusted hazard ratio (vs. non-smokers) [95% confidence interval] †						Population attributable proportion * [95% confidence interval] ‡					
			Current smokers		Ex-smokers		Ever-smokers		Current smokers		Ex-smokers		Ever-smokers †	
			Hazard Ratio	95% CI	Hazard Ratio	95% CI	Hazard Ratio	95% CI	Proportion	95% CI	Proportion	95% CI	Proportion	95% CI
Cancer of liver, intrahepatic bile ducts 肝・肝内胆管がん	JPHC-I	Male	1.81	[0.81; 3.64]	1.40	[0.63; 3.13]	1.68	[0.85; 3.30]	27.4%	[-6.0%; 50.2%]	8.7%	[-10.3%; 21.2%]	34.1%	[-16.4%; 62.7%]
		Female	3.09	[0.89; 10.72]	3.06	[0.40; 23.15]	3.08	[1.02; 9.32]	10.7%	[-8.6%; 26.5%]	3.5%	[-7.3%; 13.2%]	14.2%	[-8.2%; 32.0%]
	JPHC-II	Male	1.79	[1.24; 2.59]	1.53	[1.02; 2.30]	1.69	[1.18; 2.41]	24.2%	[9.4%; 36.6%]	10.2%	[0.4%; 19.1%]	34.5%	[11.5%; 51.5%]
		Female	1.42	[0.62; 3.28]	1.76	[0.43; 7.16]	1.50	[0.72; 3.11]	2.2%	[-3.9%; 7.9%]	1.0%	[-2.4%; 4.3%]	3.2%	[-3.9%; 9.8%]
	3-Prof	Male	2.02	[1.40; 2.92]	1.63	[1.09; 2.44]	1.89	[1.32; 2.70]	32.1%	[17.4%; 44.2%]	10.2%	[2.1%; 17.6%]	42.3%	[20.3%; 58.3%]
		Female	1.25	[0.66; 2.37]	1.44	[0.58; 3.57]	1.30	[0.75; 2.25]	2.7%	[-8.2%; 10.9%]	1.9%	[-3.8%; 7.3%]	4.6%	[-6.4%; 14.5%]
	JACC	Male	1.57	[1.13; 2.18]	1.89	[1.18; 2.39]	1.61	[1.18; 2.21]	18.6%	[5.4%; 30.0%]	14.1%	[5.0%; 22.3%]	32.7%	[11.8%; 48.7%]
		Female	2.54	[1.45; 4.44]	0.45	[0.06; 3.23]	1.94	[1.13; 3.34]	7.5%	[0.9%; 13.7%]	-1.1%	[-2.9%; 0.7%]	6.4%	[-0.6%; 13.0%]
	Pooled	Male	1.81	[1.49; 2.20]	1.63	[1.32; 2.01]	1.74	[1.44; 2.11]	25.6%	[18.1%; 32.5%]	11.5%	[0.7%; 18.0%]	37.1%	[25.9%; 46.6%]
		Female	1.73	[1.21; 2.48]	1.23	[0.63; 2.39]	1.58	[1.15; 2.20]	4.9%	[0.9%; 8.7%]	0.6%	[-1.5%; 2.6%]	5.4%	[0.9%; 9.8%]
Cancer of gallbladder, other and unspecified parts of biliary tract 胆嚢・胆管がん	JPHC-I	Male	0.67	[0.31; 1.45]	0.31	[0.10; 0.96]	0.55	[0.26; 1.15]	-24.9%	[-88.0%; 17.0%]	-28.5%	[-57.1%; -5.1%]	-53.2%	[-146.5%; 4.8%]
		Female	1.82	[0.55; 6.05]	1.83	[0.25; 13.52]	1.82	[0.83; 5.28]	4.7%	[-7.9%; 15.8%]	1.6%	[-5.4%; 8.1%]	6.2%	[-9.5%; 18.9%]
	JPHC-II	Male	1.42	[0.66; 3.04]	1.13	[0.49; 2.62]	1.30	[0.83; 2.09]	15.4%	[-22.3%; 41.5%]	3.3%	[-22.5%; 23.7%]	18.8%	[-48.4%; 55.0%]
		Female	0.93	[0.22; 3.88]	1.76	[0.24; 12.80]	1.11	[0.34; 3.59]	-0.4%	[-7.8%; 6.5%]	1.1%	[-4.0%; 5.8%]	0.7%	[-5.5%; 8.1%]
	3-Prof	Male	0.92	[0.47; 1.79]	1.11	[0.55; 2.25]	0.99	[0.53; 1.85]	-4.3%	[-45.0%; 25.0%]	3.3%	[-21.3%; 23.0%]	-0.8%	[-68.3%; 39.6%]
		Female	1.17	[0.62; 2.20]	0.26	[0.04; 1.89]	0.91	[0.49; 1.67]	1.9%	[-7.0%; 10.2%]	-3.5%	[-8.1%; -1.0%]	-1.6%	[-11.4%; 7.4%]
	JACC	Male	1.36	[0.82; 2.25]	1.44	[0.85; 2.45]	1.39	[0.86; 2.25]	12.7%	[-9.5%; 30.4%]	10.9%	[-5.3%; 24.6%]	23.6%	[-14.1%; 48.9%]
		Female	1.91	[1.03; 3.56]	0.84	[0.21; 3.40]	1.60	[0.90; 2.85]	4.6%	[-1.3%; 10.2%]	-0.3%	[-2.8%; 2.1%]	4.3%	[-2.3%; 10.4%]
	Pooled	Male	1.11	[0.80; 1.53]	1.10	[0.78; 1.56]	1.11	[0.82; 1.50]	4.9%	[-11.1%; 18.6%]	3.0%	[-7.8%; 12.6%]	7.8%	[-17.6%; 27.8%]
		Female	1.48	[0.89; 2.21]	0.72	[0.30; 1.75]	1.27	[0.88; 1.84]	3.3%	[-0.7%; 7.2%]	-0.7%	[-2.5%; 1.0%]	2.6%	[-1.8%; 6.9%]
Cancer of pancreas 膵臓がん	JPHC-I	Male	1.68	[0.72; 3.85]	1.22	[0.46; 3.29]	1.52	[0.87; 3.43]	24.3%	[-20.8%; 52.6%]	4.0%	[-17.6%; 21.7%]	28.4%	[-40.6%; 63.5%]
		Female	0.75	[0.10; 5.58]	-	-	0.58	[0.07; 4.12]	-1.4%	[-10.7%; 7.0%]	-	-	-3.5%	[-12.9%; 5.2%]
	JPHC-II	Male	1.45	[0.77; 2.73]	1.12	[0.55; 2.30]	1.32	[0.72; 2.40]	16.8%	[-14.5%; 38.6%]	2.9%	[-18.6%; 18.2%]	18.8%	[-30.8%; 50.8%]
		Female	1.38	[0.50; 3.81]	2.46	[0.80; 10.10]	1.61	[0.89; 3.76]	1.9%	[-5.2%; 8.4%]	2.0%	[-2.8%; 6.6%]	3.9%	[-4.8%; 11.8%]
	3-Prof	Male	1.43	[0.88; 2.40]	0.88	[0.54; 1.78]	1.27	[0.77; 2.09]	18.7%	[-9.3%; 39.6%]	-0.6%	[-15.7%; 12.5%]	17.6%	[-25.8%; 46.5%]
		Female	2.10	[1.29; 3.50]	1.62	[0.70; 3.74]	1.96	[1.24; 3.11]	10.9%	[1.0%; 19.9%]	2.5%	[-3.0%; 7.7%]	13.5%	[1.8%; 23.7%]
	JACC	Male	1.74	[1.06; 2.85]	1.43	[0.85; 2.44]	1.61	[1.00; 2.59]	23.2%	[2.9%; 39.3%]	9.5%	[-4.7%; 21.7%]	32.6%	[-1.2%; 55.1%]
		Female	1.88	[1.04; 3.41]	2.72	[1.27; 5.84]	2.12	[1.31; 3.45]	4.2%	[-1.0%; 9.2%]	3.3%	[-0.6%; 7.1%]	7.6%	[0.8%; 13.7%]
	Pooled	Male	1.58	[1.18; 2.11]	1.19	[0.86; 1.65]	1.43	[1.08; 1.90]	21.2%	[8.3%; 32.3%]	4.4%	[-3.8%; 11.9%]	25.5%	[5.7%; 41.2%]
		Female	1.81	[1.28; 2.57]	1.86	[1.16; 3.30]	1.85	[1.37; 2.50]	5.3%	[1.3%; 9.1%]	2.4%	[-0.1%; 4.9%]	7.7%	[2.9%; 12.2%]
Cancer of larynx 喉頭がん	JPHC-I	Male	-	-	-	-	-	-	-	-	-	-	-	
		Female	-	-	-	-	-	-	-	-	-	-	-	
	JPHC-II	Male	4.59	[0.58; 38.20]	2.82	[0.31; 25.40]	3.86	[0.50; 29.56]	50.3%	[-17.4%; 78.9%]	18.4%	[-22.2%; 45.6%]	68.8%	[-108.3%; 95.3%]
		Female	-	-	-	-	-	-	-	-	-	-	-	
	3-Prof	Male	1.48	[0.16; 13.35]	2.40	[0.27; 21.46]	1.84	[0.23; 14.76]	14.4%	[-100.5%; 83.5%]	25.9%	[-53.9%; 64.3%]	40.5%	[-278.6%; 90.7%]
		Female	-	-	-	-	-	-	-	-	-	-	-	
	JACC	Male	-	-	-	-	-	-	-	-	-	-	-	
		Female	-	-	-	-	-	-	-	-	-	-	-	
	Pooled	Male	5.47	[1.29; 23.11]	3.03	[0.65; 14.01]	4.50	[1.08; 18.72]	56.7%	[20.0%; 78.6%]	18.7%	[-4.8%; 33.9%]	73.4%	[-2.1%; 83.1%]
		Female	-	-	-	-	-	-	-	-	-	-	-	
Cancer of trachea, bronchus, and lung 気管・気管支・肺がん	JPHC-I	Male	5.15	[2.49; 10.61]	3.16	[1.44; 6.95]	4.48	[2.19; 9.16]	57.2%	[39.9%; 69.5%]	15.4%	[5.6%; 24.3%]	72.6%	[48.5%; 88.0%]
		Female	4.55	[2.30; 9.01]	-	-	3.43	[1.73; 6.79]	18.7%	[4.3%; 30.8%]	-	-	16.9%	[2.3%; 29.4%]
	JPHC-II	Male	4.07	[2.73; 6.07]	1.83	[1.03; 2.57]	3.08	[2.08; 4.56]	53.6%	[42.6%; 62.5%]	7.7%	[0.6%; 14.2%]	61.5%	[44.8%; 73.1%]
		Female	3.28	[1.78; 6.12]	3.21	[1.01; 10.24]	3.27	[1.85; 5.77]	11.0%	[1.9%; 19.2%]	2.7%	[-1.8%; 7.1%]	13.7%	[3.5%; 22.8%]
	3-Prof	Male	5.11	[3.35; 7.80]	2.68	[1.70; 4.21]	4.19	[2.75; 6.37]	58.4%	[49.4%; 65.8%]	14.0%	[6.5%; 19.2%]	72.3%	[56.7%; 81.4%]
		Female	3.72	[2.54; 5.45]	2.99	[1.86; 5.40]	3.51	[2.48; 4.98]	22.3%	[13.0%; 30.7%]	6.6%	[1.1%; 11.8%]	28.9%	[18.2%; 38.3%]
	JACC	Male	5.00	[3.58; 7.04]	2.61	[1.81; 3.76]	4.00	[2.85; 5.60]	54.9%	[47.6%; 61.2%]	15.5%	[10.3%; 20.4%]	70.3%	[59.2%; 78.2%]
		Female	4.03	[2.70; 6.04]	2.46	[1.15; 5.28]	3.59	[2.48; 5.20]	13.3%	[8.9%; 19.2%]	2.5%	[-0.7%; 5.6%]	15.6%	[8.7%; 22.4%]
	Pooled	Male	4.79	[3.88; 5.92]	2.41	[1.91; 3.03]	3.85	[3.12; 4.74]	55.8%	[51.2%; 60.0%]	13.4%	[10.3%; 16.4%]	69.2%	[62.6%; 74.7%]
		Female	3.88	[3.07; 4.90]	2.63	[1.72; 4.03]	3.55	[2.88; 4.40]	18.4%	[12.0%; 20.5%]	3.4%	[1.2%; 5.6%]	19.8%	[14.9%; 24.4%]

Table 5. Cause-specific hazard ratio and population attributable fraction of smoking, by cohort and sex, (continued)

Cause of death	Cohort	Sex	Age-adjusted hazard ratio (vs. non-smokers) [95% confidence interval] †						Population attributable proportion ‡ (95% confidence interval)					
			Current smokers		Ex-smokers		Ever-smokers		Current smokers		Ex-smokers		Ever-smokers †	
Cancer of breast 乳がん	JPHC-I	Female	1.41	[0.50; 3.95]	1.11	[0.15; 8.08]	1.33	[0.52; 3.40]	2.7%	[-7.1%; 11.6%]	0.2%	[-4.5%; 4.7%]	2.9%	[-4.2%; 12.9%]
	JPHC-II	Female	1.20	[0.43; 3.37]	-	-	1.00	[0.38; 2.80]	1.5%	[-8.0%; 10.1%]	-	-	0.0%	[-9.8%; 8.7%]
	3-Prof	Female	0.71	[0.31; 1.63]	-	-	0.54	[0.23; 1.24]	-3.8%	[-11.4%; 3.7%]	-	-	-7.5%	[-15.7%; 0.0%]
	JACC	Female	1.79	[0.82; 3.89]	5.05	[2.19; 11.69]	2.55	[1.40; 4.61]	3.9%	[-3.0%; 10.3%]	6.1%	[-0.0%; 11.6%]	10.0%	[0.7%; 18.4%]
	Pooled	Female	1.21	[0.77; 1.90]	1.40	[0.68; 2.97]	1.25	[0.84; 1.88]	1.5%	[-2.5%; 5.4%]	0.8%	[-1.4%; 3.0%]	2.4%	[-2.3%; 6.9%]
Cancer of cervix uteri 子宮頸がん	JPHC-I	Female	4.48	[1.20; 18.74]	-	-	3.39	[0.91; 12.67]	19.4%	[-11.7%; 41.9%]	-	-	17.8%	[-14.2%; 40.8%]
	JPHC-II	Female	1.90	[0.43; 8.38]	-	-	1.55	[0.35; 6.84]	5.6%	[-12.4%; 20.6%]	-	-	4.2%	[-14.0%; 19.5%]
	3-Prof	Female	1.68	[0.69; 4.08]	0.74	[0.10; 5.49]	1.42	[0.62; 3.28]	7.4%	[-8.8%; 21.1%]	-1.0%	[-7.4%; 4.9%]	6.3%	[-11.8%; 21.5%]
	JACC	Female	2.04	[0.62; 6.75]	1.88	[0.27; 14.62]	2.03	[0.71; 5.81]	5.1%	[-6.9%; 15.8%]	1.6%	[-5.1%; 8.0%]	6.8%	[-7.3%; 18.0%]
	Pooled	Female	2.32	[1.31; 4.10]	1.00	[0.25; 4.09]	1.99	[1.18; 3.41]	8.6%	[0.4%; 16.2%]	0.0%	[-3.1%; 3.0%]	8.6%	[-0.3%; 18.8%]
Cancer of ovary 卵巣がん	JPHC-I	Female	0.69	[0.09; 5.24]	-	-	0.53	[0.07; 3.97]	-2.5%	[-14.7%; 8.5%]	-	-	-5.0%	[-17.6%; 6.2%]
	JPHC-II	Female	0.68	[0.09; 5.05]	5.91	[1.39; 25.16]	1.66	[0.49; 5.59]	-1.8%	[-10.5%; 6.0%]	6.6%	[-4.8%; 16.6%]	4.8%	[-10.1%; 17.6%]
	3-Prof	Female	1.55	[0.68; 3.50]	1.27	[0.30; 5.33]	1.48	[0.71; 3.09]	5.9%	[-7.8%; 17.8%]	1.0%	[-5.9%; 7.5%]	6.9%	[-9.0%; 20.5%]
	JACC	Female	0.44	[0.06; 3.19]	1.34	[0.18; 9.78]	0.66	[0.18; 2.73]	-3.1%	[-8.0%; 1.7%]	0.8%	[-4.2%; 5.2%]	-2.5%	[-9.6%; 4.2%]
	Pooled	Female	1.10	[0.57; 2.09]	1.75	[0.71; 4.29]	1.25	[0.73; 2.15]	0.7%	[-4.5%; 5.6%]	1.7%	[-1.8%; 5.1%]	2.4%	[-4.0%; 8.4%]
Cancer of prostate 前立腺がん	JPHC-I	Male	0.70	[0.17; 2.95]	0.23	[0.02; 2.23]	0.53	[0.13; 2.11]	-23.6%	[-178.9%; 45.5%]	-37.2%	[-103.8%; 7.0%]	-80.3%	[-306.1%; 36.7%]
	JPHC-II	Male	0.45	[0.18; 1.25]	1.16	[0.49; 2.75]	0.77	[0.34; 1.73]	-28.3%	[-73.2%; 4.9%]	6.8%	[-42.3%; 38.9%]	-22.1%	[-121.5%; 32.0%]
	3-Prof	Male	0.78	[0.42; 1.48]	0.71	[0.35; 1.42]	0.76	[0.42; 1.38]	-12.9%	[-54.8%; 17.8%]	-11.3%	[-37.4%; 9.8%]	-24.3%	[-83.7%; 20.2%]
	JACC	Male	1.44	[0.82; 2.53]	1.02	[0.55; 1.87]	1.23	[0.73; 2.10]	15.0%	[-10.0%; 34.4%]	0.5%	[-20.0%; 17.5%]	15.3%	[-30.0%; 44.8%]
	Pooled	Male	0.88	[0.68; 1.41]	0.91	[0.61; 1.34]	0.95	[0.67; 1.33]	-1.0%	[-19.4%; 14.6%]	-3.2%	[-17.4%; 8.2%]	-4.3%	[-35.6%; 18.8%]
Cancer of kidney except renal pelvis 腎盂を除く腎臓がん	JPHC-I	Male	0.93	[0.17; 5.07]	-	-	0.63	[0.12; 3.43]	-5.2%	[-22.4%; 66.1%]	-	-	-39.4%	[-332.3%; 55.0%]
		Female	-	-	-	-	-	-	-	-	-	-	-	
	JPHC-II	Male	1.37	[0.38; 5.18]	1.51	[0.37; 8.07]	1.43	[0.41; 4.97]	12.6%	[-55.3%; 51.0%]	11.8%	[-38.4%; 43.0%]	24.6%	[-110.8%; 73.0%]
		Female	-	-	-	-	-	-	-	-	-	-	-	
	3-Prof	Male	1.08	[0.30; 3.95]	1.83	[0.49; 6.75]	1.35	[0.40; 4.55]	3.5%	[-71.2%; 45.6%]	16.5%	[-26.8%; 47.6%]	22.2%	[-122.9%; 72.8%]
		Female	-	-	3.94	[0.44; 35.39]	1.22	[0.14; 10.96]	-	-	14.8%	[-31.9%; 45.1%]	3.7%	[-49.3%; 37.8%]
	JACC	Male	2.75	[0.81; 9.33]	1.77	[0.47; 6.70]	2.38	[0.72; 7.78]	40.3%	[-8.7%; 67.3%]	11.6%	[-17.0%; 33.3%]	51.9%	[-40.7%; 83.0%]
	Female	2.00	[0.25; 15.81]	-	-	1.42	[0.18; 11.21]	5.0%	[-16.8%; 22.7%]	-	-	3.0%	[-19.3%; 21.1%]	
	Pooled	Male	1.57	[0.81; 3.08]	1.46	[0.71; 3.00]	1.53	[0.81; 2.90]	19.9%	[-11.0%; 42.2%]	9.7%	[-9.6%; 25.6%]	29.8%	[-21.5%; 59.2%]
	Female	0.80	[0.08; 4.47]	1.55	[0.21; 11.52]	0.88	[0.20; 3.89]	-2.8%	[-12.3%; 5.7%]	1.5%	[-7.4%; 9.6%]	-1.4%	[-15.0%; 10.7%]	

Table 5. Cause-specific hazard ratio and population attributable fraction of smoking, by cohort and sex, (continued)

Cause of death	Cohort	Sex	Age-adjusted hazard ratio (vs. non-smokers) [95% confidence interval] †						Population attributable proportion * [95% confidence interval]						
			Current smokers		Ex-smokers		Ever-smokers		Current smokers		Ex-smokers		Ever-smokers		
			HR	95% CI	HR	95% CI	HR	95% CI	PAF	95% CI	PAF	95% CI	PAF	95% CI	
Cancer of renal pelvis, ureter, bladder 腎盂・尿管・膀胱がん	JPHC-I	Male	-	-	-	-	-	-	83.3%	[0.3% : 87.2%]	16.7%	[-19.2% : 41.7%]	100.0%	#N/A	100.0%
		Female	-	-	-	-	-	-	-	-	-	-	-	-	-
	JPHC-II	Male	8.64	[0.83 : 18.01]	2.22	[0.45 : 11.08]	3.07	[0.72 : 13.14]	46.2%	[-5.9% : 72.8%]	15.0%	[-16.7% : 38.1%]	61.3%	[-45.2% : 89.7%]	
		Female	4.13	[0.48 : 35.38]	-	-	3.12	[0.36 : 28.74]	12.6%	[-25.0% : 38.9%]	-	-	11.3%	[-28.8% : 38.0%]	
	3-Pref	Male	4.89	[1.16 : 20.59]	3.91	[0.88 : 17.31]	4.52	[1.09 : 18.71]	51.8%	[17.1% : 72.0%]	22.5%	[1.7% : 38.9%]	74.3%	[0.3% : 93.4%]	
		Female	2.02	[0.75 : 5.45]	-	-	1.41	[0.52 : 3.79]	11.0%	[-10.4% : 28.2%]	-	-	6.3%	[-16.3% : 24.4%]	
	JACC	Male	5.95	[1.83 : 19.34]	1.92	[0.52 : 7.09]	4.18	[1.30 : 13.44]	62.8%	[32.6% : 78.5%]	8.8%	[-8.7% : 23.5%]	71.4%	[14.4% : 90.5%]	
		Female	0.81	[0.11 : 6.00]	-	-	0.55	[0.07 : 4.10]	-1.1%	[-10.7% : 7.7%]	-	-	-3.7%	[-13.6% : 5.4%]	
	Pooled	Male	5.35	[2.47 : 11.57]	2.76	[1.21 : 6.31]	4.30	[2.01 : 9.23]	58.9%	[39.5% : 69.3%]	15.4%	[4.2% : 25.4%]	72.3%	[43.1% : 86.5%]	
		Female	1.86	[0.84 : 4.11]	-	-	1.30	[0.59 : 2.88]	5.8%	[-4.0% : 14.7%]	-	-	2.9%	[-7.2% : 12.1%]	
Cancer of bladder 膀胱がん	JPHC-I	Male	-	-	-	-	-	-	-	-	-	-	-	-	
		Female	-	-	-	-	-	-	-	-	-	-	-	-	-
	JPHC-II	Male	6.26	[0.81 : 48.17]	3.56	[0.41 : 30.63]	5.15	[0.88 : 38.70]	56.0%	[3.7% : 79.9%]	20.0%	[-12.5% : 43.1%]	78.1%	[-60.7% : 96.4%]	
		Female	5.30	[0.59 : 47.46]	-	-	3.99	[0.45 : 35.70]	18.2%	[-29.8% : 46.0%]	-	-	15.0%	[-31.8% : 45.2%]	
	3-Pref	Male	7.18	[0.98 : 53.58]	7.20	[0.94 : 55.31]	7.19	[0.98 : 52.80]	52.2%	[18.1% : 72.1%]	31.3%	[7.9% : 48.8%]	83.5%	[-13.8% : 97.6%]	
		Female	1.69	[0.48 : 5.93]	-	-	1.16	[0.33 : 4.07]	7.6%	[-16.6% : 27.0%]	-	-	2.6%	[-23.3% : 23.0%]	
	JACC	Male	5.97	[1.41 : 25.27]	2.23	[0.48 : 10.75]	4.33	[1.04 : 18.10]	61.2%	[23.3% : 80.4%]	11.4%	[-10.5% : 28.6%]	72.4%	[-5.9% : 92.8%]	
		Female	0.83	[0.12 : 6.99]	-	-	0.63	[0.08 : 4.76]	-0.4%	[-11.6% : 8.7%]	-	-	-3.0%	[-14.6% : 7.3%]	
	Pooled	Male	6.71	[2.44 : 18.46]	4.13	[1.44 : 11.68]	5.66	[2.08 : 15.42]	57.4%	[38.4% : 70.5%]	21.3%	[8.2% : 32.5%]	78.6%	[44.3% : 91.8%]	
		Female	1.67	[0.66 : 4.23]	-	-	1.16	[0.46 : 2.94]	4.5%	[-6.1% : 14.1%]	-	-	1.6%	[-9.5% : 11.4%]	
Cancer of brain 悪性脳腫瘍	JPHC-I	Male	-	-	-	-	-	-	-	-	-	-	-	-	
		Female	-	-	-	-	-	-	-	-	-	-	-	-	-
	JPHC-II	Male	0.76	[0.13 : 4.52]	0.78	[0.11 : 5.64]	0.77	[0.15 : 3.96]	-13.9%	[-155.1% : 49.2%]	-7.9%	[-96.1% : 40.7%]	-21.6%	[-293.3% : 82.3%]	
		Female	-	-	-	-	-	-	-	-	-	-	-	-	-
	3-Pref	Male	0.48	[0.13 : 1.70]	0.15	[0.02 : 1.38]	0.37	[0.11 : 1.25]	-58.6%	[-228.8% : 22.5%]	-49.8%	[-113.3% : -5.2%]	-109.6%	[-358.8% : 4.0%]	
		Female	1.19	[0.14 : 9.92]	7.05	[1.40 : 35.57]	2.68	[0.68 : 10.67]	1.8%	[-24.1% : 22.3%]	19.1%	[-14.6% : 42.9%]	20.8%	[-25.7% : 50.1%]	
	JACC	Male	0.63	[0.10 : 3.76]	1.38	[0.25 : 7.47]	0.91	[0.19 : 4.38]	-19.9%	[-137.7% : 39.5%]	11.7%	[-79.5% : 56.6%]	-8.2%	[-267.2% : 68.1%]	
		Female	-	-	-	-	-	-	-	-	-	-	-	-	-
	Pooled	Male	0.77	[0.32 : 1.81]	0.72	[0.27 : 1.92]	0.75	[0.34 : 1.67]	-14.8%	[-77.3% : 25.7%]	-10.1%	[-45.4% : 18.6%]	-24.8%	[-128.8% : 31.3%]	
		Female	0.58	[0.08 : 4.18]	3.58	[0.84 : 15.29]	1.29	[0.38 : 4.30]	-3.1%	[-11.8% : 4.9%]	5.8%	[-5.8% : 18.1%]	2.7%	[-12.5% : 15.8%]	
Myeloid leukemia 骨髄性白血病	JPHC-I	Male	-	-	-	-	-	-	-	-	-	-	-	-	
		Female	-	-	-	-	-	-	-	-	-	-	-	-	-
	JPHC-II	Male	1.68	[0.46 : 6.05]	2.08	[0.53 : 8.08]	1.81	[0.53 : 6.18]	20.0%	[-40.8% : 54.5%]	18.1%	[-19.9% : 44.1%]	38.1%	[-75.8% : 78.2%]	
		Female	-	-	10.17	[1.22 : 84.72]	1.77	[0.21 : 14.87]	-	-	12.9%	[-17.9% : 35.6%]	6.2%	[-27.0% : 30.7%]	
	3-Pref	Male	1.00	[0.27 : 3.72]	1.21	[0.30 : 4.84]	1.08	[0.31 : 3.73]	0.1%	[-92.3% : 48.1%]	5.8%	[-45.5% : 38.0%]	6.0%	[-104.4% : 68.6%]	
		Female	-	-	-	-	-	-	-	-	-	-	-	-	-
	JACC	Male	1.29	[0.47 : 3.51]	2.43	[0.89 : 6.66]	1.68	[0.65 : 4.31]	9.6%	[-34.6% : 39.4%]	25.4%	[-4.3% : 46.7%]	35.0%	[-46.9% : 71.2%]	
		Female	3.73	[1.07 : 13.01]	-	-	2.83	[0.75 : 9.17]	12.9%	[-8.5% : 30.1%]	-	-	10.6%	[-11.0% : 28.5%]	
	Pooled	Male	1.45	[0.74 : 2.82]	2.13	[1.07 : 4.25]	1.69	[0.89 : 3.18]	14.8%	[-13.7% : 38.2%]	20.3%	[1.9% : 35.3%]	35.1%	[-12.4% : 62.6%]	
		Female	0.98	[0.30 : 3.10]	0.96	[0.13 : 7.01]	0.96	[0.34 : 2.68]	-0.3%	[-8.9% : 7.6%]	-0.1%	[-4.8% : 4.4%]	-0.4%	[-10.5% : 8.8%]	

Table 5. Cause-specific hazard ratio and population attributable fraction of smoking, by cohort and sex, (continued)

Cause of death	Cohort	Sex	Age-adjusted hazard ratio (vs. non-smokers) [95% confidence interval]§						Population attributable proportion* [95% confidence interval]					
			Current smokers		Ex-smokers		Ever-smokers		Current smokers		Ex-smokers		Ever-smokers†	
			HR	95% CI	HR	95% CI	HR	95% CI	HR	95% CI	HR	95% CI	HR	95% CI
Cardiovascular diseases 全循環器疾患	JPHC-I	Male	1.57	[1.18; 2.08]	1.01	[0.71; 1.42]	1.39	[1.05; 1.82]	22.8%	[8.8%; 34.3%]	0.1%	[-0.8%; 0.5%]	22.7%	[3.4%; 38.2%]
		Female	2.35	[1.49; 3.70]	2.31	[1.08; 4.95]	2.34	[1.58; 3.51]	7.8%	[2.0%; 13.3%]	2.5%	[-0.8%; 5.0%]	10.3%	[3.0%; 16.5%]
	JPHC-II	Male	1.72	[1.40; 2.11]	1.33	[1.00; 1.67]	1.57	[1.29; 1.91]	23.3%	[15.2%; 30.6%]	7.0%	[1.4%; 12.2%]	30.3%	[18.0%; 40.9%]
		Female	3.15	[2.37; 4.19]	2.00	[1.07; 3.78]	2.00	[2.22; 3.78]	9.8%	[6.0%; 13.3%]	1.3%	[-0.3%; 2.8%]	11.0%	[7.0%; 14.9%]
	3-Pref	Male	1.38	[1.19; 1.61]	1.15	[0.98; 1.36]	1.29	[1.12; 1.49]	15.7%	[8.7%; 22.1%]	3.7%	[-0.7%; 7.9%]	19.2%	[8.7%; 28.6%]
		Female	1.50	[1.27; 1.77]	1.28	[1.00; 1.65]	1.43	[1.24; 1.68]	5.4%	[2.8%; 7.8%]	1.4%	[-0.2%; 2.9%]	6.7%	[3.7%; 9.7%]
	JACC	Male	1.52	[1.33; 1.73]	1.17	[1.02; 1.35]	1.37	[1.21; 1.55]	18.1%	[12.6%; 23.1%]	4.4%	[0.4%; 8.2%]	22.3%	[13.9%; 30.0%]
		Female	1.97	[1.63; 2.38]	1.59	[1.18; 2.14]	1.85	[1.57; 2.17]	4.8%	[3.1%; 6.5%]	1.3%	[0.3%; 2.3%]	6.1%	[4.0%; 8.1%]
	Pooled	Male	1.52	[1.39; 1.65]	1.17	[1.07; 1.29]	1.38	[1.27; 1.49]	18.8%	[15.3%; 22.2%]	4.2%	[1.7%; 6.6%]	23.0%	[17.5%; 28.0%]
		Female	1.88	[1.78; 2.21]	1.60	[1.34; 1.91]	1.87	[1.70; 2.06]	6.4%	[5.1%; 7.7%]	1.6%	[0.9%; 2.4%]	8.0%	[6.5%; 9.6%]
Both§	Male							13.6%	[11.2%; 16.4%]	3.2%	[1.6%; 4.7%]	17.0%	[12.8%; 21.1%]	
	Female							12.4%	[8.9%; 15.9%]	2.9%	[0.9%; 5.0%]	15.3%	[9.8%; 21.0%]	
	Both§							4.5%	[3.3%; 5.6%]	1.1%	[0.5%; 1.7%]	5.6%	[4.2%; 7.0%]	
Causally-tobacco-related cardiovascular diseases in total 喫煙と因果関係が ある循環器疾患*	JPHC-I	Male	1.52	[1.09; 2.13]	0.97	[0.64; 1.48]	1.34	[0.97; 1.88]	21.2%	[4.1%; 35.2%]	-0.5%	[-8.0%; 7.3%]	20.7%	[-3.5%; 39.2%]
		Female	2.97	[1.81; 4.90]	2.92	[1.28; 6.68]	2.96	[1.89; 4.63]	11.1%	[3.4%; 18.1%]	3.5%	[-0.8%; 7.6%]	14.5%	[5.8%; 22.5%]
	JPHC-II	Male	1.82	[1.42; 2.34]	1.38	[1.03; 1.80]	1.64	[1.30; 2.09]	25.6%	[15.6%; 34.2%]	7.3%	[0.7%; 13.5%]	33.0%	[18.0%; 45.2%]
		Female	3.41	[2.44; 4.77]	2.39	[1.18; 4.84]	3.19	[2.34; 4.35]	10.8%	[6.2%; 15.2%]	1.7%	[-0.4%; 3.8%]	12.5%	[7.5%; 17.4%]
	3-Pref	Male	1.28	[1.05; 1.53]	1.12	[0.91; 1.37]	1.21	[1.01; 1.45]	11.4%	[2.2%; 18.8%]	3.0%	[-2.8%; 8.6%]	14.4%	[0.2%; 28.6%]
		Female	1.59	[1.29; 1.96]	1.35	[0.98; 1.87]	1.52	[1.28; 1.83]	6.3%	[2.9%; 9.5%]	1.7%	[-0.4%; 3.6%]	7.9%	[3.9%; 11.8%]
	JACC	Male	1.59	[1.38; 1.87]	1.22	[1.03; 1.45]	1.43	[1.23; 1.67]	19.9%	[13.6%; 25.8%]	5.5%	[0.8%; 10.0%]	25.3%	[15.2%; 34.3%]
		Female	1.99	[1.58; 2.50]	1.53	[1.05; 2.23]	1.85	[1.51; 2.28]	4.9%	[2.7%; 7.0%]	1.2%	[-0.1%; 2.4%]	6.0%	[3.5%; 8.5%]
	Pooled	Male	1.51	[1.36; 1.68]	1.19	[1.08; 1.33]	1.38	[1.25; 1.53]	18.7%	[14.3%; 22.8%]	4.5%	[1.5%; 7.4%]	23.1%	[16.4%; 29.3%]
		Female	2.09	[1.83; 2.39]	1.66	[1.33; 2.07]	1.97	[1.75; 2.21]	7.0%	[5.3%; 8.7%]	1.8%	[0.8%; 2.7%]	8.8%	[6.8%; 10.7%]
Ischemic heart diseases 虚血性心疾患	JPHC-I	Male	2.37	[1.24; 4.52]	1.64	[0.78; 3.46]	2.13	[1.13; 4.01]	37.6%	[11.0%; 58.3%]	8.7%	[-4.6%; 20.4%]	46.3%	[6.7%; 89.1%]
		Female	4.73	[1.98; 11.26]	6.38	[1.88; 21.46]	5.12	[2.38; 11.03]	18.4%	[0.6%; 33.0%]	8.4%	[-3.2%; 18.7%]	28.6%	[5.7%; 43.2%]
	JPHC-II	Male	2.41	[1.59; 3.65]	1.58	[0.99; 2.52]	2.09	[1.40; 3.14]	36.0%	[20.9%; 48.2%]	9.4%	[-0.2%; 18.0%]	45.5%	[18.0%; 81.6%]
		Female	3.38	[1.81; 6.24]	2.97	[0.93; 9.45]	3.28	[1.87; 5.75]	10.4%	[1.9%; 18.2%]	2.5%	[-1.8%; 6.5%]	12.9%	[3.3%; 21.5%]
	3-Pref	Male	1.02	[1.14; 2.30]	1.43	[0.98; 2.09]	1.55	[1.10; 2.17]	21.9%	[6.5%; 34.7%]	9.0%	[-0.5%; 17.7%]	30.8%	[6.9%; 48.6%]
		Female	2.33	[1.81; 3.38]	2.15	[1.25; 3.68]	2.28	[1.84; 3.18]	12.7%	[5.3%; 18.6%]	4.8%	[0.1%; 9.3%]	17.6%	[8.7%; 25.6%]
	JACC	Male	2.60	[1.87; 3.61]	2.09	[1.48; 2.95]	2.38	[1.73; 3.28]	35.0%	[25.0%; 43.8%]	17.2%	[8.8%; 24.0%]	52.1%	[38.2%; 64.0%]
		Female	3.03	[2.08; 4.47]	2.05	[1.05; 4.01]	2.73	[1.93; 3.87]	9.4%	[4.4%; 14.2%]	2.2%	[-0.6%; 4.9%]	11.6%	[5.8%; 17.0%]
	Pooled	Male	2.18	[1.79; 2.68]	1.71	[1.39; 2.12]	2.00	[1.65; 2.42]	31.8%	[24.9%; 37.9%]	12.3%	[7.7%; 16.8%]	44.1%	[33.7%; 52.8%]
		Female	2.95	[2.33; 3.73]	2.48	[1.71; 3.60]	2.81	[2.28; 3.46]	11.6%	[7.9%; 15.1%]	3.6%	[1.4%; 5.8%]	15.2%	[10.9%; 19.3%]
Total stroke 脳卒中	JPHC-I	Male	1.24	[0.83; 1.85]	0.75	[0.45; 1.28]	1.08	[0.73; 1.59]	11.5%	[-11.7%; 28.9%]	-5.9%	[-16.9%; 4.1%]	5.7%	[-27.4%; 30.2%]
		Female	2.48	[1.34; 4.60]	1.92	[0.90; 6.11]	2.34	[1.33; 4.11]	8.6%	[0.2%; 16.4%]	1.7%	[-2.5%; 5.7%]	10.4%	[0.8%; 19.0%]
	JPHC-II	Male	1.44	[1.06; 1.98]	1.22	[0.87; 1.73]	1.36	[1.01; 1.83]	16.1%	[2.4%; 27.9%]	5.4%	[-4.1%; 13.9%]	21.5%	[-0.1%; 38.5%]
		Female	3.43	[2.30; 5.11]	2.14	[0.88; 5.20]	3.15	[2.17; 4.57]	11.0%	[5.3%; 16.3%]	1.4%	[-0.9%; 3.7%]	12.4%	[6.3%; 18.1%]
	3-Pref	Male	1.11	[0.88; 1.39]	0.98	[0.78; 1.28]	1.06	[0.85; 1.31]	5.1%	[-8.9%; 15.7%]	-0.6%	[-8.2%; 6.4%]	4.3%	[-14.3%; 19.9%]
		Female	1.38	[1.05; 1.78]	1.12	[0.75; 1.68]	1.29	[1.03; 1.61]	4.0%	[0.2%; 7.8%]	0.6%	[-1.6%; 2.8%]	4.6%	[0.0%; 8.9%]
	JACC	Male	1.30	[1.08; 1.58]	0.99	[0.81; 1.22]	1.16	[0.98; 1.39]	11.8%	[3.4%; 19.4%]	-0.2%	[-8.4%; 5.7%]	11.4%	[-2.2%; 23.3%]
		Female	1.80	[1.20; 2.14]	1.23	[0.78; 1.99]	1.49	[1.15; 1.92]	3.1%	[0.8%; 5.3%]	0.5%	[-0.8%; 1.8%]	3.6%	[0.9%; 6.2%]
	Pooled	Male	1.25	[1.10; 1.42]	1.00	[0.87; 1.14]	1.15	[1.02; 1.29]	10.6%	[4.8%; 16.0%]	-0.1%	[-4.1%; 3.8%]	10.4%	[1.4%; 18.6%]
		Female	1.80	[1.52; 2.12]	1.35	[1.01; 1.79]	1.66	[1.44; 1.93]	5.3%	[3.4%; 7.1%]	1.0%	[-0.1%; 2.0%]	6.2%	[4.1%; 8.4%]
Subarachnoid hemorrhage くも膜下出血	JPHC-I	Male	1.44	[0.58; 3.61]	0.99	[0.32; 3.08]	1.30	[0.53; 3.17]	18.8%	[-38.4%; 52.3%]	-0.1%	[-24.8%; 18.6%]	18.6%	[-67.0%; 60.3%]
		Female	2.07	[0.72; 5.94]	-	-	1.56	[0.54; 4.49]	6.7%	[-6.9%; 18.5%]	0.0%	[0.0%; 0.0%]	4.6%	[-9.2%; 16.7%]
	JPHC-II	Male	6.34	[1.50; 26.74]	2.87	[0.54; 13.27]	5.05	[1.21; 21.07]	64.4%	[28.2%; 82.8%]	11.0%	[-7.0%; 26.0%]	75.5%	[5.9%; 93.6%]
		Female	5.07	[2.77; 9.27]	1.42	[0.20; 10.27]	4.31	[2.40; 7.75]	18.4%	[6.4%; 28.9%]	0.5%	[-2.8%; 3.7%]	18.9%	[6.4%; 29.7%]
	3-Pref	Male	1.45	[0.64; 3.29]	0.53	[0.18; 1.58]	1.14	[0.51; 2.54]	22.1%	[-38.1%; 55.4%]	-11.8%	[-35.2%; 7.5%]	10.1%	[-7.8%; 54.5%]
		Female	2.25	[1.28; 4.01]	1.52	[0.55; 4.22]	2.04	[1.20; 3.47]	12.2%	[0.4%; 22.7%]	2.0%	[-4.0%; 7.7%]	14.3%	[0.6%; 28.1%]
	JACC	Male	2.82	[1.34; 5.93]	1.63	[0.71; 3.78]	2.39	[1.15; 4.97]	43.8%	[18.1%; 82.4%]	8.8%	[-6.3%; 21.5%]	52.5%	[8.3%; 75.4%]
		Female	2.92	[1.77; 4.80]	0.83	[0.20; 3.35]	2.33	[1.45; 3.78]	9.2%	[2.0%; 15.3%]	-0.3%	[-2.5%; 1.8%]	8.9%	[1.9%; 15.3%]
	Pooled	Male	2.33	[1.50; 3.84]	1.19	[0.71; 2.02]	1.94	[1.25; 3.00]	39.5%	[21.3%; 53.5%]	3.1%	[-6.3%; 11.6%]	42.6%	[15.8%; 69.9%]
		Female	2.79	[2.08; 3.78]	1.05	[0.50; 2.24]	2.33	[1.75; 3.11]	11.3%	[6.5%; 15.9%]	0.1%	[-1.7%; 1.9%]	11.5%	[6.2%; 16.4%]

Table 5. Cause-specific hazard ratio and population attributable fraction of smoking, by cohort and sex, (continued)

Cause of death	Cohort	Sex	Age-adjusted hazard ratio (vs. non-smokers) [95% confidence interval] †									Population attributable proportion * [95% confidence interval]					
			Current smokers			Ex-smokers			Ever-smokers			Current smokers		Ex-smokers		Ever-smokers†	
			Hazard Ratio	95% CI	95% CI	Hazard Ratio	95% CI	95% CI	Hazard Ratio	95% CI	95% CI	Attributable Proportion	95% CI	95% CI	Attributable Proportion	95% CI	95% CI
Intracerebral hemorrhage 脳内出血	JPHC-I	Male	1.20	[0.69; 2.10]	0.82	[0.29; 1.33]	1.01	[0.59; 1.74]	10.2%	[-25.8%; 35.8%]	-8.3%	[-24.9%; 4.4%]	1.0%	[-50.1%; 34.6%]			
		Female	3.07	[1.28; 7.48]	4.78	[1.45; 15.61]	3.49	[1.63; 7.48]	11.2%	[-2.8%; 23.3%]	6.6%	[-3.1%; 15.4%]	17.8%	[0.8%; 32.0%]			
	JPHC-II	Male	1.49	[0.88; 2.58]	1.02	[0.53; 1.95]	1.32	[0.78; 2.24]	19.0%	[-9.1%; 39.8%]	0.4%	[-15.3%; 14.0%]	19.5%	[-23.4%; 47.5%]			
		Female	3.39	[1.65; 6.97]	2.85	[0.69; 11.76]	3.28	[1.69; 6.35]	11.1%	[0.6%; 20.6%]	2.3%	[-2.7%; 7.0%]	13.4%	[1.7%; 23.7%]			
	3-Pref	Male	0.91	[0.57; 1.47]	0.82	[0.48; 1.40]	0.88	[0.56; 1.39]	-5.1%	[-36.8%; 18.3%]	-5.9%	[-23.2%; 8.0%]	-11.0%	[-60.2%; 23.1%]			
		Female	1.47	[0.88; 2.52]	1.30	[0.56; 2.98]	1.42	[0.88; 2.28]	5.1%	[-3.4%; 12.9%]	1.4%	[-3.7%; 6.2%]	6.5%	[-3.8%; 15.7%]			
	JACC	Male	1.43	[0.97; 2.09]	1.04	[0.68; 1.59]	1.27	[0.88; 1.83]	16.6%	[-1.5%; 31.4%]	1.0%	[-10.9%; 11.7%]	17.5%	[-11.5%; 39.0%]			
		Female	1.45	[0.78; 2.77]	1.01	[0.32; 3.19]	1.32	[0.74; 2.34]	2.3%	[-2.5%; 6.9%]	0.0%	[-2.6%; 2.6%]	2.4%	[-3.2%; 7.6%]			
	Pooled	Male	1.24	[0.98; 1.57]	0.91	[0.69; 1.19]	1.11	[0.89; 1.40]	10.8%	[-1.5%; 21.5%]	-2.5%	[-8.6%; 4.3%]	8.3%	[-10.2%; 23.7%]			
		Female	1.92	[1.39; 2.67]	1.69	[0.99; 2.89]	1.86	[1.39; 2.48]	6.0%	[2.1%; 9.8%]	1.7%	[-0.5%; 4.0%]	7.8%	[3.2%; 12.2%]			
Cerebral infarction 脳梗塞	JPHC-I	Male	0.93	[0.35; 2.48]	0.45	[0.11; 1.81]	0.77	[0.30; 1.98]	-4.3%	[-63.2%; 40.7%]	-17.4%	[-50.7%; 8.5%]	-21.6%	[-139.2%; 38.2%]			
		Female	5.08	[1.01; 25.46]	-	-	3.79	[0.76; 18.98]	20.1%	[-19.3%; 46.4%]	-	-	18.4%	[-21.8%; 45.2%]			
	JPHC-II	Male	1.19	[0.72; 1.99]	0.94	[0.53; 1.65]	1.09	[0.67; 1.76]	8.0%	[-17.4%; 27.9%]	-2.0%	[-20.7%; 13.9%]	8.2%	[-37.2%; 35.9%]			
		Female	2.57	[1.01; 6.52]	1.63	[0.22; 11.90]	2.34	[0.99; 5.54]	6.8%	[-3.4%; 15.9%]	0.9%	[-3.6%; 5.1%]	7.6%	[-3.8%; 17.6%]			
	3-Pref	Male	1.21	[0.88; 1.68]	1.16	[0.83; 1.62]	1.19	[0.88; 1.60]	8.7%	[-6.5%; 21.7%]	4.4%	[-6.0%; 13.7%]	13.0%	[-11.5%; 32.1%]			
		Female	1.12	[0.74; 1.69]	0.75	[0.37; 1.53]	1.01	[0.70; 1.45]	1.4%	[-4.0%; 6.5%]	-1.3%	[-4.2%; 1.5%]	0.1%	[-6.3%; 6.1%]			
	JACC	Male	1.22	[0.91; 1.65]	0.98	[0.70; 1.32]	1.10	[0.83; 1.46]	8.8%	[-4.8%; 20.7%]	-1.3%	[-12.0%; 8.3%]	7.3%	[-15.8%; 25.8%]			
		Female	1.37	[0.81; 2.32]	1.59	[0.78; 3.23]	1.44	[0.93; 2.22]	1.9%	[-1.8%; 5.5%]	1.4%	[-1.3%; 4.0%]	3.3%	[-3.3%; 7.7%]			
	Pooled	Male	1.23	[1.02; 1.50]	1.02	[0.82; 1.26]	1.14	[0.95; 1.37]	9.5%	[0.6%; 17.5%]	0.5%	[-8.1%; 6.7%]	8.9%	[-4.5%; 22.3%]			
		Female	1.48	[1.10; 2.00]	1.17	[0.72; 1.91]	1.39	[1.07; 1.80]	3.3%	[0.3%; 6.3%]	0.5%	[-1.2%; 2.3%]	3.9%	[0.3%; 7.3%]			
Aortic aneurysm and dissection 大動脈瘤および解離	JPHC-I	Male	-	-	-	-	-	-	-	-	-	-	-				
		Female	-	-	-	-	-	-	-	-	-	-	-	-			
	JPHC-II	Male	4.07	[0.94; 17.71]	4.79	[1.07; 21.51]	4.35	[1.04; 18.28]	40.2%	[3.9%; 82.8%]	31.7%	[4.6%; 51.0%]	71.9%	[-7.4%; 92.6%]			
		Female	5.70	[1.18; 27.50]	-	-	4.33	[0.90; 20.85]	18.3%	[-15.8%; 42.4%]	-	-	17.1%	[-17.6%; 41.5%]			
	3-Pref	Male	6.48	[0.87; 48.48]	4.82	[0.80; 38.52]	5.86	[0.80; 43.18]	57.4%	[13.8%; 78.9%]	22.6%	[-2.0%; 41.3%]	80.0%	[-37.2%; 97.1%]			
		Female	1.68	[0.47; 5.81]	1.28	[0.18; 9.68]	1.54	[0.50; 4.72]	7.0%	[-16.0%; 25.4%]	1.2%	[-11.3%; 12.3%]	8.2%	[-19.5%; 29.5%]			
	JACC	Male	3.05	[1.37; 6.78]	1.75	[0.74; 4.17]	2.49	[1.14; 5.43]	42.6%	[15.8%; 68.8%]	11.5%	[-6.4%; 28.4%]	53.9%	[6.8%; 77.2%]			
		Female	2.76	[0.96; 7.91]	6.56	[2.28; 18.84]	3.88	[1.76; 8.57]	7.5%	[-4.8%; 18.2%]	10.0%	[-1.8%; 20.4%]	17.5%	[0.5%; 31.5%]			
	Pooled	Male	3.89	[2.02; 7.49]	2.71	[1.35; 5.42]	3.42	[1.80; 6.51]	47.4%	[30.3%; 60.3%]	18.3%	[6.8%; 28.4%]	65.6%	[37.6%; 81.1%]			
		Female	2.35	[1.18; 4.78]	3.16	[1.25; 7.95]	2.59	[1.43; 4.69]	8.2%	[-1.5%; 17.0%]	5.4%	[-1.7%; 12.0%]	13.6%	[1.4%; 24.3%]			
Abdominal aortic aneurysm 腹部大動脈瘤	JPHC-I	Male	-	-	-	-	-	-	-	-	-	-	-				
		Female	-	-	-	-	-	-	-	-	-	-	-	-			
	JPHC-II	Male	-	-	-	-	-	-	-	-	-	-	-	-			
		Female	-	-	-	-	-	-	-	-	-	-	-	-			
	3-Pref	Male	-	-	-	-	-	-	-	-	-	-	-	-			
		Female	1.42	[0.17; 12.15]	-	-	1.00	[0.12; 8.55]	4.9%	[-36.0%; 33.5%]	-	-	0.0%	[-43.1%; 30.1%]			
	JACC	Male	2.23	[0.75; 6.82]	0.80	[0.22; 2.98]	1.59	[0.55; 4.61]	38.6%	[-19.7%; 66.6%]	-4.6%	[-36.5%; 18.8%]	31.7%	[-68.9%; 72.4%]			
		Female	11.48	[1.91; 68.72]	25.37	[4.23; 151.99]	15.79	[3.53; 70.69]	26.1%	[-18.2%; 53.8%]	27.4%	[-15.9%; 54.6%]	53.5%	[-9.3%; 80.2%]			
Pooled	Male	3.89	[1.38; 10.99]	1.84	[0.52; 5.24]	2.94	[1.05; 8.18]	52.2%	[18.0%; 72.1%]	8.3%	[-11.8%; 24.8%]	60.3%	[-1.3%; 84.5%]				
	Female	4.30	[1.18; 15.96]	6.51	[1.39; 30.39]	4.98	[1.66; 14.94]	16.5%	[-8.9%; 36.5%]	12.1%	[-8.9%; 29.0%]	28.5%	[-5.6%; 51.6%]				

Table 5. Cause-specific hazard ratio and population attributable fraction of smoking, by cohort and sex, (continued)

Cause of death	Cohort	Sex	Age-adjusted hazard ratio (vs. non-smokers) [95% confidence interval] §						Population attributable proportion* [95% confidence interval]					
			Current smokers		Ex-smokers		Ever-smokers		Current smokers		Ex-smokers		Ever-smokers†	
			Hazard Ratio	95% CI	Hazard Ratio	95% CI	Hazard Ratio	95% CI	Attributable Proportion	95% CI	Attributable Proportion	95% CI	Attributable Proportion	95% CI
Respiratory system diseases 全呼吸器疾患	JPHC-I	Male	1.18	[0.65; 2.15]	1.18	[0.60; 2.31]	1.18	[0.87; 2.09]	8.0%	[-24.3%; 31.9%]	4.2%	[-14.2%; 18.6%]	12.2%	[-37.9%; 44.1%]
		Female	1.02	[0.24; 4.28]	1.54	[0.21; 11.35]	1.15	[0.35; 3.78]	0.1%	[-9.3%; 8.7%]	1.1%	[-5.3%; 7.1%]	1.2%	[-10.5%; 11.7%]
	JPHC-II	Male	1.35	[0.85; 1.90]	1.39	[0.97; 2.00]	1.37	[0.89; 1.89]	11.9%	[-2.2%; 24.0%]	10.1%	[-1.1%; 20.0%]	22.0%	[-1.7%; 40.1%]
		Female	1.38	[0.59; 3.12]	0.77	[0.11; 5.50]	1.23	[0.57; 2.85]	1.7%	[-3.7%; 8.8%]	-0.3%	[-2.5%; 1.8%]	1.4%	[-4.5%; 6.9%]
	3-Prof	Male	1.22	[0.94; 1.58]	1.45	[1.11; 1.89]	1.31	[1.02; 1.67]	8.3%	[-3.0%; 18.4%]	11.4%	[3.2%; 18.9%]	19.8%	[1.5%; 34.7%]
		Female	1.39	[0.95; 2.03]	0.98	[0.52; 1.88]	1.28	[0.80; 1.77]	4.3%	[-1.4%; 9.6%]	-0.1%	[-3.2%; 2.9%]	4.2%	[-2.5%; 10.4%]
	JACC	Male	1.64	[1.34; 2.01]	1.37	[1.11; 1.69]	1.51	[1.25; 1.83]	19.1%	[11.7%; 25.8%]	9.4%	[3.1%; 15.2%]	28.3%	[16.0%; 38.8%]
		Female	2.04	[1.43; 2.89]	1.84	[0.94; 2.88]	1.91	[1.41; 2.59]	5.1%	[1.7%; 8.4%]	1.5%	[-0.6%; 3.5%]	6.6%	[2.8%; 10.5%]
	Pooled	Male	1.41	[1.22; 1.62]	1.37	[1.18; 1.59]	1.39	[1.22; 1.59]	13.9%	[8.4%; 18.0%]	9.5%	[5.2%; 13.7%]	23.4%	[14.5%; 31.4%]
		Female	1.65	[1.29; 2.09]	1.27	[0.85; 1.89]	1.53	[1.24; 1.90]	4.3%	[1.8%; 6.8%]	0.8%	[-0.7%; 2.2%]	5.1%	[2.1%; 8.0%]
Respiratory system diseases 全呼吸器疾患	Pooled‡	Male	-	-	-	-	-	11.0%	[6.0%; 15.4%]	6.9%	[3.6%; 10.2%]	17.9%	[10.2%; 25.7%]	
		Female	-	-	-	-	-	8.8%	[3.7%; 13.9%]	4.9%	[1.0%; 8.8%]	13.7%	[4.2%; 23.2%]	
		Both§	-	-	-	-	-	2.4%	[0.3%; 4.5%]	0.8%	[-0.5%; 2.1%]	3.2%	[0.8%; 5.7%]	
Causally-tobacco-related respiratory diseases in total 喫煙と因果関係がある呼吸器疾患*	JPHC-I	Male	1.27	[0.59; 2.73]	0.84	[0.33; 2.12]	1.12	[0.54; 2.34]	12.4%	[-34.2%; 42.9%]	-4.0%	[-27.7%; 15.2%]	8.5%	[-63.8%; 48.8%]
		Female	-	-	-	-	-	-	-	-	-	-	-	
	JPHC-II	Male	1.31	[0.88; 1.98]	1.24	[0.79; 1.93]	1.28	[0.88; 1.89]	11.2%	[-7.0%; 28.2%]	6.4%	[-7.6%; 18.6%]	17.6%	[-13.1%; 40.0%]
		Female	1.53	[0.55; 4.24]	1.28	[0.18; 9.14]	1.47	[0.59; 3.68]	2.4%	[-4.8%; 9.2%]	0.4%	[-3.2%; 3.8%]	2.8%	[-5.4%; 10.3%]
	3-Prof	Male	1.19	[0.89; 1.60]	1.35	[1.00; 1.83]	1.28	[0.98; 1.68]	7.5%	[-5.4%; 18.6%]	9.4%	[-0.1%; 18.0%]	17.0%	[-4.2%; 33.9%]
		Female	1.32	[0.83; 2.10]	0.97	[0.45; 2.07]	1.21	[0.80; 1.83]	3.5%	[-3.2%; 8.8%]	-0.2%	[-3.9%; 3.4%]	3.3%	[-4.7%; 10.7%]
	JACC	Male	1.52	[1.21; 1.92]	1.25	[0.88; 1.89]	1.39	[1.12; 1.73]	16.4%	[7.6%; 24.3%]	6.9%	[0.6%; 13.9%]	23.2%	[8.2%; 35.7%]
		Female	1.87	[1.20; 2.90]	1.89	[1.09; 3.66]	1.91	[1.22; 2.75]	4.3%	[0.3%; 8.2%]	2.3%	[-0.5%; 5.0%]	6.6%	[1.7%; 11.3%]
	Pooled	Male	1.35	[1.15; 1.59]	1.25	[1.05; 1.48]	1.30	[1.12; 1.52]	12.4%	[5.8%; 18.5%]	8.9%	[1.6%; 11.8%]	19.2%	[8.4%; 28.7%]
		Female	1.53	[1.13; 2.07]	1.39	[0.88; 2.21]	1.49	[1.15; 1.93]	3.6%	[0.5%; 6.6%]	1.2%	[-0.7%; 3.1%]	4.6%	[1.1%; 8.2%]
Pneumonia 肺炎	JPHC-I	Male	0.88	[0.44; 2.16]	0.78	[0.29; 1.98]	0.90	[0.42; 1.92]	-1.3%	[-54.2%; 33.5%]	-6.9%	[-34.4%; 15.0%]	-8.2%	[-90.6%; 38.6%]
		Female	-	-	-	-	-	-	0.0%	[0.0%; 0.0%]	0.0%	[0.0%; 0.0%]	0.0%	[0.0%; 0.0%]
	JPHC-II	Male	1.19	[0.78; 1.87]	0.96	[0.58; 1.59]	1.09	[0.71; 1.68]	8.0%	[-14.3%; 25.9%]	-1.3%	[-17.3%; 12.5%]	6.8%	[-30.2%; 33.3%]
		Female	1.28	[0.39; 4.05]	1.40	[0.19; 10.15]	1.29	[0.47; 3.59]	1.2%	[-5.8%; 7.8%]	0.8%	[-3.4%; 4.3%]	1.8%	[-8.4%; 9.3%]
	3-Prof	Male	1.03	[0.78; 1.41]	1.23	[0.90; 1.69]	1.12	[0.84; 1.48]	1.5%	[-12.8%; 14.0%]	8.9%	[-3.7%; 16.4%]	8.5%	[-15.3%; 27.3%]
		Female	1.28	[0.79; 2.08]	1.03	[0.48; 2.22]	1.20	[0.78; 1.85]	3.1%	[-3.8%; 9.5%]	0.2%	[-3.9%; 4.1%]	3.2%	[-5.1%; 10.9%]
	JACC	Male	1.32	[1.02; 1.70]	1.10	[0.85; 1.44]	1.21	[0.98; 1.54]	11.1%	[0.9%; 20.2%]	3.2%	[-5.6%; 11.3%]	14.1%	[-3.8%; 28.8%]
		Female	1.62	[1.00; 2.63]	1.82	[1.01; 3.83]	1.71	[1.15; 2.55]	3.1%	[-0.8%; 6.9%]	2.2%	[-0.7%; 5.0%]	5.3%	[0.4%; 10.0%]
	Pooled	Male	1.17	[0.98; 1.39]	1.09	[0.91; 1.31]	1.13	[0.98; 1.33]	6.6%	[-0.9%; 13.6%]	2.8%	[-3.2%; 8.5%]	9.4%	[-3.1%; 20.5%]
		Female	1.39	[1.00; 1.93]	1.40	[0.87; 2.26]	1.40	[1.08; 1.84]	2.7%	[-0.4%; 5.7%]	1.2%	[-0.8%; 3.2%]	3.9%	[0.2%; 7.5%]
Chronic obstructive pulmonary diseases 慢性閉塞性肺疾患 (COPD)	JPHC-I	Male	-	-	-	-	-	85.7%	[12.3%; 97.7%]	14.3%	[-16.0%; 38.7%]	100.0%	#N/A	
		Female	1.00	[1.00; 1.00]	1.00	[1.00; 1.00]	1.00	[1.00; 1.00]	-	-	-	-	-	
	JPHC-II	Male	2.06	[0.89; 8.16]	2.97	[1.01; 8.77]	2.48	[0.87; 8.94]	21.1%	[-11.4%; 44.1%]	32.3%	[1.7%; 53.4%]	53.3%	[-18.3%; 81.6%]
		Female	4.20	[0.49; 36.04]	-	-	3.17	[0.37; 27.20]	12.7%	[-24.9%; 39.0%]	0.0%	[0.0%; 0.0%]	11.4%	[-26.7%; 38.1%]
	3-Prof	Male	4.32	[1.31; 14.23]	3.70	[1.08; 12.82]	4.06	[1.28; 13.08]	45.5%	[16.4%; 64.5%]	25.3%	[4.6%; 41.5%]	70.7%	[12.3%; 90.2%]
		Female	1.85	[0.39; 8.71]	-	-	1.28	[0.27; 8.02]	9.2%	[-23.6%; 33.4%]	0.0%	[0.0%; 0.0%]	4.4%	[-30.4%; 29.8%]
	JACC	Male	3.02	[1.63; 5.80]	2.34	[1.24; 4.43]	2.69	[1.48; 4.89]	38.2%	[18.9%; 49.7%]	20.8%	[6.2%; 32.9%]	58.7%	[25.8%; 74.7%]
		Female	5.85	[1.88; 18.14]	3.24	[0.42; 25.00]	5.04	[1.77; 14.33]	19.5%	[-4.8%; 38.2%]	4.1%	[-8.1%; 14.8%]	23.8%	[-3.9%; 43.8%]
	Pooled	Male	3.09	[1.90; 5.03]	2.76	[1.68; 4.55]	2.95	[1.84; 4.72]	38.5%	[23.8%; 47.1%]	23.8%	[13.5%; 32.9%]	80.3%	[39.0%; 74.2%]
		Female	3.55	[1.53; 8.21]	1.16	[0.16; 8.54]	2.82	[1.27; 6.28]	15.2%	[-1.2%; 29.0%]	0.4%	[-5.8%; 6.3%]	15.8%	[-2.3%; 30.5%]
Asthma 喘息	JPHC-I	Male	-	-	-	-	-	-	-	-	-	-		
		Female	3.79	[0.38; 37.38]	-	-	2.88	[0.28; 28.39]	18.4%	[-43.8%; 53.7%]	0.0%	[0.0%; 0.0%]	18.3%	[-47.5%; 52.5%]
	JPHC-II	Male	0.74	[0.21; 2.63]	2.02	[0.83; 8.49]	1.22	[0.41; 3.65]	-10.4%	[-87.6%; 27.3%]	25.2%	[-24.2%; 55.0%]	14.5%	[-105.6%; 84.4%]
		Female	18.80	[1.23; 317.83]	-	-	15.02	[0.94; 240.68]	47.5%	[-110.0%; 88.9%]	0.0%	[0.0%; 0.0%]	46.7%	[-113.2%; 88.7%]
	3-Prof	Male	1.08	[0.39; 3.02]	1.47	[0.52; 4.18]	1.24	[0.47; 3.23]	3.4%	[-52.1%; 38.8%]	12.4%	[-25.5%; 38.9%]	18.0%	[-88.0%; 82.5%]
		Female	1.70	[0.57; 5.06]	1.16	[0.15; 8.70]	1.58	[0.57; 4.23]	7.5%	[-12.7%; 24.1%]	0.8%	[-8.9%; 9.3%]	8.1%	[-15.3%; 28.6%]
	JACC	Male	1.81	[0.87; 4.94]	1.68	[0.59; 4.85]	1.74	[0.87; 4.49]	21.8%	[-18.1%; 48.2%]	14.7%	[-18.1%; 38.4%]	36.5%	[-43.3%; 71.6%]
		Female	4.63	[1.73; 12.40]	-	-	3.22	[1.20; 8.63]	18.3%	[-2.7%; 31.8%]	0.0%	[0.0%; 0.0%]	14.4%	[-5.2%; 30.3%]
	Pooled	Male	1.25	[0.68; 2.30]	1.78	[0.98; 3.29]	1.47	[0.83; 2.59]	8.6%	[-16.8%; 28.4%]	18.3%	[-1.5%; 34.2%]	26.9%	[-18.3%; 54.9%]
		Female	3.46	[1.78; 6.75]	0.81	[0.11; 5.94]	2.73	[1.43; 5.21]	15.0%	[2.2%; 28.2%]	-0.4%	[-4.4%; 3.2%]	14.8%	[0.9%; 28.4%]

Table 5. Cause-specific hazard ratio and population attributable fraction of smoking, by cohort and sex. (continued)

Cause of death	Cohort	Sex	Age-adjusted hazard ratio (vs. non-smokers) [95% confidence interval] †						Population attributable proportion ‡ [95% confidence interval]					
			Current smokers		Ex-smokers		Ever-smokers		Current smokers		Ex-smokers		Ever-smokers	
			Hazard Ratio	95% CI	Hazard Ratio	95% CI	Hazard Ratio	95% CI	Proportion	95% CI	Proportion	95% CI	Proportion	95% CI
Digestive system diseases 全消化器疾患	JPHC-I	Male	2.38	[1.18; 4.82]	1.07	[0.43; 2.82]	1.94	[0.96; 3.93]	40.8%	[7.3%; 82.2%]	0.9%	[-13.4%; 13.5%]	41.8%	[-6.7%; 68.3%]
		Female	2.78	[0.79; 9.82]	-	-	2.09	[0.60; 7.27]	10.6%	[-9.9%; 27.3%]	0.0%	[0.0%; 0.0%]	8.7%	[-12.3%; 25.8%]
	JPHC-II	Male	2.68	[1.58; 4.46]	1.34	[0.73; 2.46]	2.19	[1.32; 3.64]	42.5%	[22.0%; 57.3%]	4.8%	[-5.7%; 14.4%]	47.5%	[18.1%; 68.3%]
		Female	3.45	[1.68; 7.09]	1.43	[0.20; 10.39]	3.02	[1.52; 6.01]	11.4%	[0.7%; 21.0%]	0.5%	[-3.0%; 4.0%]	12.0%	[0.5%; 22.1%]
	3-Pref	Male	1.72	[1.11; 2.67]	0.79	[0.46; 1.35]	1.39	[0.91; 2.14]	28.3%	[6.4%; 48.6%]	-4.5%	[-15.0%; 5.5%]	24.6%	[-9.5%; 48.1%]
		Female	1.46	[0.88; 2.45]	1.03	[0.42; 2.54]	1.33	[0.83; 2.13]	5.0%	[-3.2%; 12.6%]	0.1%	[-4.2%; 4.3%]	5.2%	[-4.5%; 14.0%]
	JACC	Male	1.84	[1.22; 2.78]	1.58	[1.01; 2.46]	1.74	[1.17; 2.59]	25.8%	[9.4%; 39.2%]	11.2%	[0.4%; 20.8%]	37.0%	[10.9%; 55.4%]
		Female	2.13	[1.22; 3.71]	3.81	[2.05; 7.09]	2.84	[1.71; 4.68]	5.3%	[-0.1%; 10.4%]	5.8%	[1.1%; 10.2%]	11.1%	[4.0%; 17.7%]
	Pooled	Male	2.04	[1.60; 2.60]	1.22	[0.82; 1.82]	1.74	[1.37; 2.21]	33.0%	[23.1%; 41.6%]	4.1%	[-1.6%; 8.4%]	37.1%	[22.6%; 48.6%]
		Female	2.13	[1.54; 2.94]	2.10	[1.28; 3.43]	2.12	[1.80; 2.81]	7.1%	[3.0%; 11.0%]	2.8%	[0.2%; 5.3%]	9.9%	[5.0%; 14.5%]
Digestive system diseases 全消化器疾患	Pooled †	Male	4.6%	[-0.5%; 8.7%]	0.5%	[-0.7%; 1.6%]	5.1%	[-4.0%; 14.2%]	0.2%	[-0.7%; 1.1%]	0.1%	[-0.5%; 0.7%]	0.3%	[-0.9%; 1.4%]
		Female	3.1%	[-0.3%; 6.4%]	0.4%	[-0.4%; 1.1%]	3.4%	[-2.5%; 9.3%]	3.1%	[-0.3%; 6.4%]	0.4%	[-0.4%; 1.1%]	3.4%	[-2.5%; 9.3%]
		Both ‡	-	-	-	-	-	-	-	-	-	-	-	-
Peptic ulcer 消化性潰瘍	JPHC-I	Male	-	-	-	-	-	-	-	-	-	-	-	
		Female	-	-	-	-	-	-	-	-	-	-	-	
	JPHC-II	Male	3.51	[0.43; 28.51]	-	-	2.15	[0.28; 17.46]	62.5%	[-134.3%; 94.0%]	0.0%	[0.0%; 0.0%]	46.7%	[-233.3%; 91.5%]
		Female	-	-	-	-	-	-	-	-	-	-	-	
	3-Pref	Male	-	-	-	-	-	-	-	-	-	-	-	
		Female	2.37	[0.48; 11.77]	2.51	[0.30; 20.89]	2.42	[0.60; 9.68]	12.0%	[-23.7%; 38.6%]	6.7%	[-17.6%; 28.0%]	19.6%	[-27.7%; 49.3%]
	JACC	Male	5.33	[0.68; 41.48]	1.88	[0.20; 18.05]	3.78	[0.50; 28.82]	59.6%	[-12.2%; 85.4%]	8.3%	[-28.8%; 35.2%]	68.7%	[-108.3%; 95.3%]
		Female	-	-	-	-	-	-	-	-	-	-	-	
	Pooled	Male	7.13	[1.71; 29.78]	1.98	[0.40; 9.72]	5.01	[1.21; 20.77]	68.6%	[33.5%; 85.3%]	7.4%	[-9.9%; 21.9%]	76.0%	[7.5%; 93.8%]
		Female	1.37	[0.32; 5.94]	1.50	[0.20; 11.31]	1.42	[0.42; 4.62]	2.6%	[-11.9%; 15.2%]	1.6%	[-8.3%; 10.6%]	4.2%	[-14.1%; 19.6%]
Cirrhosis of liver 肝硬変	JPHC-I	Male	2.38	[0.91; 6.20]	0.97	[0.28; 3.37]	1.93	[0.75; 4.97]	41.8%	[-7.8%; 88.7%]	-0.4%	[-18.4%; 15.7%]	41.5%	[-31.8%; 74.1%]
		Female	2.03	[0.24; 17.15]	-	-	1.55	[0.18; 13.04]	7.3%	[-25.0%; 31.5%]	0.0%	[0.0%; 0.0%]	5.0%	[-28.6%; 29.9%]
	JPHC-II	Male	3.30	[1.40; 7.78]	1.11	[0.37; 3.31]	2.57	[1.10; 6.00]	53.2%	[18.4%; 73.2%]	1.2%	[-12.9%; 13.6%]	54.4%	[3.1%; 78.6%]
		Female	2.53	[0.75; 8.53]	3.13	[0.42; 23.30]	2.68	[0.91; 7.78]	7.3%	[-7.2%; 19.8%]	2.7%	[-5.4%; 10.2%]	10.0%	[-6.8%; 24.1%]
	3-Pref	Male	1.41	[0.78; 2.64]	0.59	[0.28; 1.33]	1.14	[0.82; 2.12]	20.8%	[-21.2%; 47.9%]	-8.9%	[-26.9%; 4.8%]	10.8%	[-50.4%; 46.9%]
		Female	1.71	[0.79; 3.69]	1.09	[0.28; 4.57]	1.54	[0.76; 3.11]	7.5%	[-6.3%; 19.6%]	0.4%	[-6.3%; 6.6%]	7.9%	[-8.1%; 21.6%]
	JACC	Male	1.67	[0.87; 3.23]	2.17	[1.09; 4.31]	1.84	[0.88; 3.47]	20.8%	[-8.2%; 40.9%]	19.4%	[2.4%; 33.3%]	40.1%	[-4.1%; 65.6%]
		Female	2.38	[0.93; 6.01]	6.01	[2.35; 15.38]	3.38	[1.68; 6.81]	6.1%	[-3.6%; 15.0%]	8.9%	[-0.6%; 17.4%]	15.0%	[1.4%; 26.7%]
	Pooled	Male	1.97	[1.38; 2.85]	1.26	[0.82; 1.94]	1.73	[1.21; 2.49]	32.3%	[16.2%; 45.2%]	4.4%	[-3.9%; 12.1%]	38.8%	[13.5%; 53.8%]
		Female	2.20	[1.31; 3.68]	2.81	[1.38; 5.78]	2.36	[1.52; 3.67]	7.5%	[0.7%; 13.9%]	4.2%	[-0.4%; 8.6%]	11.7%	[3.5%; 19.3%]

JPHC-I: 厚生労働省がん研究助成金指定研究団「多目的コホートに基づくがん予防など健康の維持・増進に役立つエビデンスの構築に関する研究」コホートII

3-Pref: 大阪府立成人病センター、豊知病がんセンター、および東北大学医学部衛生学教室・公衆衛生学教室が大阪、豊知及び宮城で実施「府県コホート研究」

JACC: 文部科学省科学研究費が特定領域「ヒトがんの環境・宿主要因に関する医学的研究」

*喫煙と因果関係がある疾患: がん、口腔・口腔・咽頭、食道、胃、肝・肝内胆管、膵、嚥頭、気管・気管支、肺、子宮頸癌、(腎盂を除く腎)、腎盂・尿管、膀胱、骨髄性白血病、

循環器疾患: 虚血性心疾患、脳卒中、重大動脈瘤、呼吸器疾患: 肺炎、COPD、消化器疾患: 消化性潰瘍

†喫煙と因果関係がある疾患以外の寄与をゼロとみなし、喫煙と因果関係がある各疾患の人口寄与危険割合を積上げて求めた(手法②)。

‡男女計の人口寄与危険割合は、男女それぞれで算出した人口寄与危険割合を統合して求めた。

1. 大規模コホート研究の併合解析

厚生労働科学研究費補助金（循環器疾患等生活習慣病対策総合研究事業）
分担研究報告書

3 コホート統合データに基づく喫煙による平均余命の短縮

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分担研究者 西野 善一 宮城県立がんセンター研究所

研究要旨

わが国における喫煙による平均余命の短縮を正確に評価するために、1990年代に開始され、同時代同世代の人口集団を観察した3つのコホート研究の対象者を統合して解析を行った。40～79歳の男性140,026人、女性156,810人を平均9.6年観察し、到達年齢における性別年齢階級別死亡率を算出した。最高年齢カテゴリーを90歳以上としたところ、40歳時の平均余命は、男性では現在喫煙者で38.5歳、過去喫煙者で40.8歳、非喫煙者で42.4歳であり、女性では、順に42.4歳、42.1歳、46.1歳であった。40歳代、50歳代、60歳代、および70歳代で禁煙した者の平均余命は喫煙者に比べてそれぞれ4.8歳、3.7歳、1.6歳、および0.5歳長かった。40歳からの生存曲線の50%死亡時の非喫煙者の年齢は、男性は4.2歳、女性は4.0歳、喫煙者より長く、男性の40歳代、50歳代、60歳代、および70歳代で禁煙した者は喫煙者よりそれぞれ5.7歳、4.5歳、2.0歳、および0.7歳長かった。

A. 研究目的

わが国における喫煙による平均余命の短縮を正確に評価するために、1990年代に開始され、同時代同世代の人口集団を観察した3つのコホート研究（JPHC、3府県コホート、JACC）の対象者を統合して解析を行う。

察期間10.4年(SD; 1.6年)、男23,478人、女26,561人、年齢40～59歳。

JPHC-II : 1993. 1. 1～2003. 12. 31、10.2年(1.7年)、男29,567人、女33,175人、年齢40～69歳。

3府県コホート : 1983. 2. 1/1990. 12. 1～1993. 1. 31/2000. 2. 28、8.5年(2.7年)、男44,453、女43,704人、年齢40～79歳。

B. 研究方法

3つのコホート研究のベースライン時の対象者（喫煙状況の回答者）および観察期間は次の通りである。

JACC : 1988/1990～1999. 12. 31、9.9年(2.2年)、男42,528人、女53,370人、年齢40～57歳。

JPHC-I : 1990. 1. 1～2000. 12. 31、平均観

3コホート統合では、男140,026人、女156,810人、平均年齢 : 男54.1歳(SD; 9.7

歳)、
女 54.5 歳 (SD; 9.8 歳)。ベースライン時の喫煙状況は、男、現在喫煙者 54.5%、過去喫煙者 25.1%、非喫煙者 20.5%、女、順に 8.1%、2.4%、89.5%であった (表 1・後掲)。

コホート対象者について、40歳以上の性別、喫煙習慣別に到達年齢ごとの観察人年と観察死亡者数を求めて、年齢階級別死亡率を算出し、厚生統計テキストブック¹⁾および Chiang の手法²⁾に準拠して生命表を作成した。90歳以上は 1 カテゴリーに統合した (注:平成18年度報告書と異なる)。過去喫煙者については、例えば40~49歳で禁煙したと回答した者の群では、44歳までは喫煙者の死亡率を用い、45歳以上について当該過去喫煙者群の死亡率を用いた。50~59歳で禁煙した者、60~69歳で禁煙した者の群についても同様である。

C. 研究結果

到達年齢別観察人年および観察死亡数の年齢分布、並びに両者から算出した年齢別死亡率を図 1~2 (後掲) に示す。観察人年は、男性の喫煙者で 710,740 人年、過去喫煙者で 327,058 人年、非喫煙者で 277,695 人年、女性ではそれぞれ 115,765 人年、33,168 人年、1,372,055 人年であった (注:結果が平成 18 年度報告書と異なるのは計算での有効数字の違いによる)。観察死亡者数は、男性で順に 9,240 人、4,582 人、2,460 人、女性で 1,085 人、409 人、7,924 人であった。

作成した生命表に基づき、40歳で 10 万人としたときの年齢ごとの生存曲線を図 3~6 に示す。50%死亡時の非喫煙者の年齢は、男性は 4.2 歳、女性は 4.0 歳、喫煙者よりも長く、男性の 40 歳、50 歳、60 歳、および 70 歳で禁煙した者は喫煙者よりそれぞれ 5.7 歳、4.5 歳、2.0 歳、および 0.7 歳長かった。

40歳での平均余命は、男性では現在喫煙者で 38.5 歳、1 日喫煙本数 25 本以上の重喫煙者では 38.3 歳、過去喫煙者で 40.8 歳、非喫煙者で 42.4 歳であり、全体では 39.3 歳であった。女性では、現在喫煙者で 42.5 歳、1 日喫煙本数 25 本以上の重喫煙者では 40.4 歳、過去喫煙者で 42.8 歳、非喫煙者で 46.1 歳であり、全体では 45.7 歳であった。喫煙者と非喫煙者の 40 歳時の平均余命の差は、男性で 3.9 歳、女性で 3.6 歳であった。

D. 考察

本解析は方法論的に、コホート研究という縦断的観察で得られたデータを、到達年齢ごとの死亡率という横断的データに組み替えて生命表を作成したということに留意する必要がある。例えば、禁煙者の生命表というものは、ベースライン調査時に 40 歳から 79 歳までで禁煙していた人が、平均 10 年の観察期間内に到達した年齢での死亡率に基づいている。すなわち、50 歳の過去喫煙者の観察人年とは、ベースライン時 42 歳で過去喫煙であった人の 8 年目の観察、同じく 45 歳だった人の 5 年目の観察、

48歳だった人の2年目の観察…が合計されたものである。

本解析での、全員を対象としたときの男性と女性の40歳時の平均余命は、それぞれ39.9歳と45.7歳であり、平成7年の日本の生命表による40歳時の平均余命、37.9歳と43.9歳³⁾より若干大きかったが、年齢階級を90歳以上を統合しているの、単純には比較できない。

本解析と比較しうるデータは、Dollらが英国人男性医師を1951年から追跡したものである^{4,5)}。40年間の追跡では³⁾、1951~71年の追跡前半では、35歳から始まる生存曲線での50%死亡時の喫煙者と非喫煙者の年齢差は約5年であり、1971~91年の追跡後半では約8年に拡大していた。さらに、50年間の追跡では⁵⁾、1900~1930年生まれの者の35歳からの生存曲線での前述の年齢差は約10年に拡大していた。また、若年者ほどその差は大きかった。すなわち、時代が下るほど、後代コホートとなるほど、差が大きくなると考えられる。本解析での、男性における喫煙者と非喫煙者の50%死亡時の年齢差は、英国人男性医師の1950年代から60年代に相当すると言えよう。

E. 結論

3コホート統合データを用いて、40歳時の平均余命を算出したところ、男性では現在喫煙者で38.5歳、過去喫煙者で40.8歳、非喫煙者で42.4歳であり、女性では、順に42.5歳、42.8歳、46.1歳であった。40歳からの生存曲線の50%死亡時の年齢差は男

女ともに約4歳であり、英国人男性医師の1950年代から60年代の状況に相当すると考えられた。

参考資料

- 1) 厚生統計テキストブック、第4版。厚生統計協会、pp191-211, 2003.
- 2) Chiang CL. The Life Table and Its Applications. Malabar: Robert E. Publishing 1984: 113-67.
- 3) 第18回生命表。厚生省大臣官房統計情報部。厚生統計協会、1998.
- 4) Doll R, et al. Mortality in relation to smoking: 40 years' observations on male British doctors. BMJ 309: 901-911, 1994.
- 5) Doll R, et al. Mortality in relation to smoking: 50 years' observations on male British doctors. BMJ 328: 1519-1527, 2004.

F. 健康危険情報

喫煙は平均余命を短縮し健康に危険である。

G. 研究発表

1. 論文発表

Ozasa K, Katanoda K, Tamakoshi A, Sato H, Tajima K, Suzuki T, Tsugane S, Sobue T. Reduced life expectancy due to smoking in large-scale cohort studies in Japan. J Epidemiol 2008; 18 (in press).

2. 学会発表

なし

なし

H. 知的財産権の出願・登録状況

表 1. 対象者の喫煙状況 (ベースライン時)

		人数	年齢 (平均±SD)	喫煙本数 (平均±SD)	喫煙年数 (平均 ±SD)	禁煙後年数 (平均 ±SD)
男	現在喫煙	76,227	53.2±9.4	21.8±11.4	31.0±11.8	
	過去喫煙	35,079	56.4±10.0	21.3±15.3	22.4±14.2	9.9±9.7
	非喫煙	28,720	53.8±9.5			
	合計	140,026	54.1±9.7			
女	現在喫煙	12,717	53.4±10.1	13.5±9.4	21.7±13.2	
	過去喫煙	3,714	56.5±11.1	10.3±10.4	14.7±14.0	7.7±9.7
	非喫煙	140,379	54.5±9.7			
	合計	156,810	54.5±9.8			

図 1. 年齢階級別死亡率(男性)

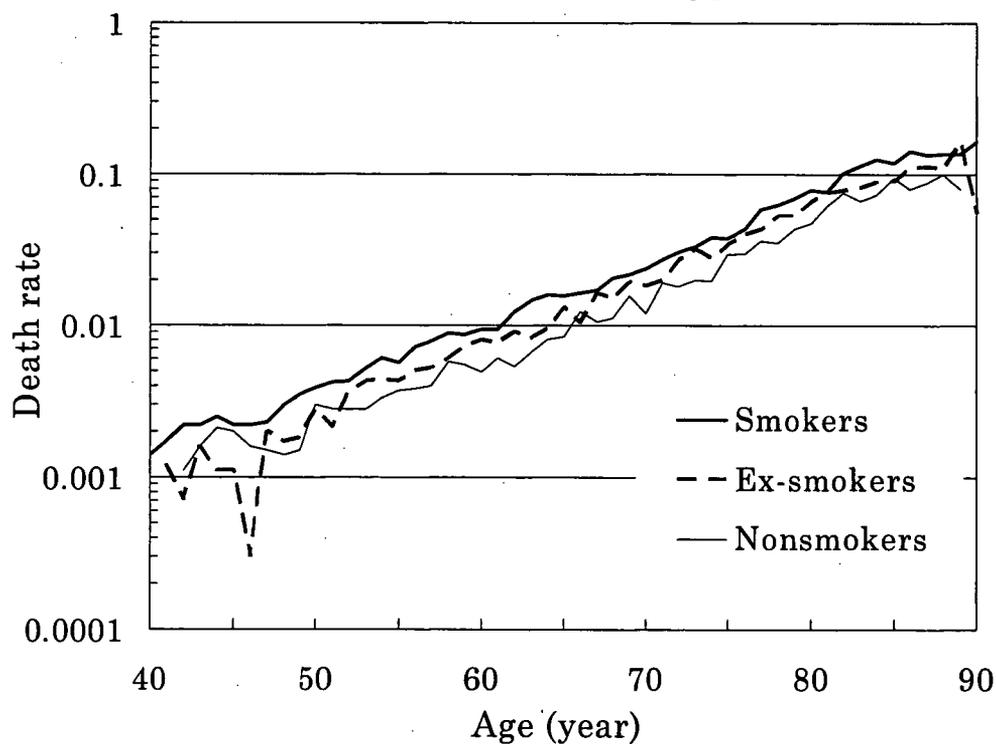


図2. 年齢階級別死亡率(女性)

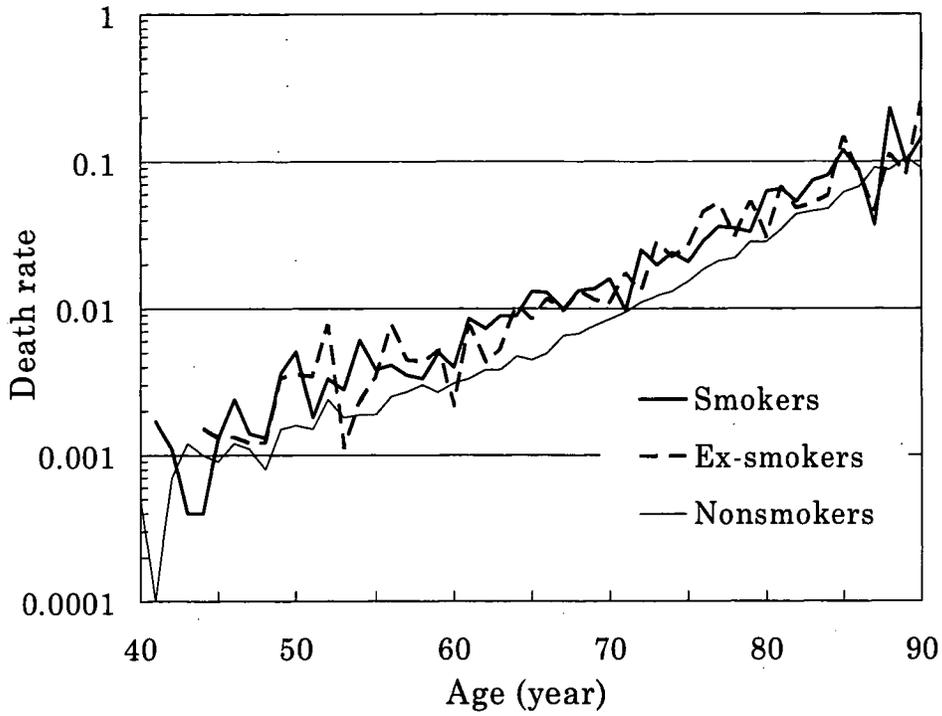


図3. 40歳からの生存曲線(男性・喫煙状況別)

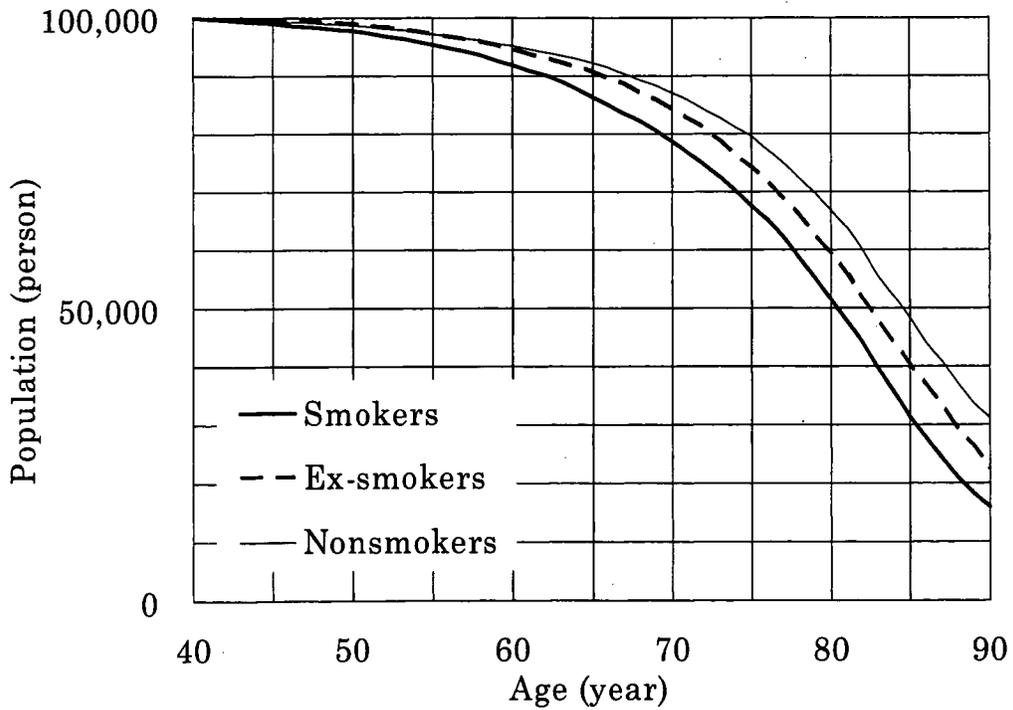


図4. 40歳からの生存曲線(男性・現在喫煙者喫煙量別)

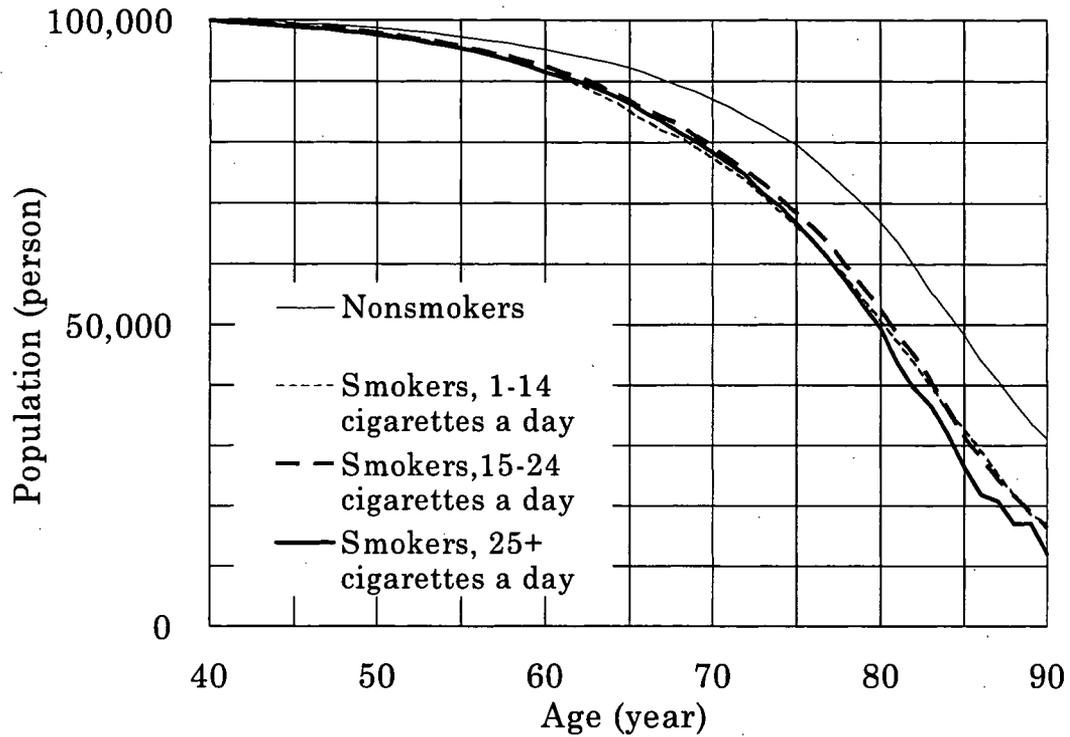


図5. 40歳からの生存曲線(男性・過去喫煙者禁煙年齢別)

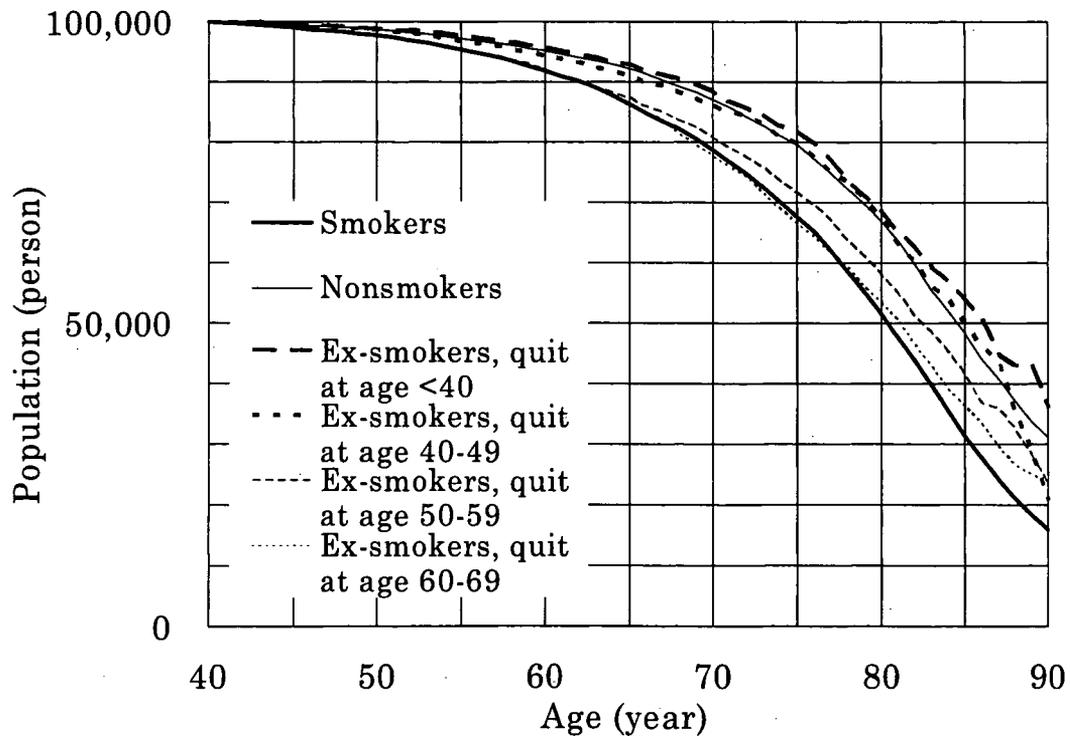


図6. 40歳からの生存曲線(女性・喫煙状況別)

