

Supplementary appendix

eFigure 1. Location of cancer registries (CRs), diseases surveillance points (DSPs), and Chinese National Nutrition and Health Survey (NNHS)

eFigure 2a. County-level age-standardized lung cancer mortality in China, men, 1973-1975

eFigure 2b. County-level age-standardized lung cancer mortality in China, women, 1973-1975

eFigure 3. Age-specific population attributable fraction of cancer death attributable to smoking for men and women

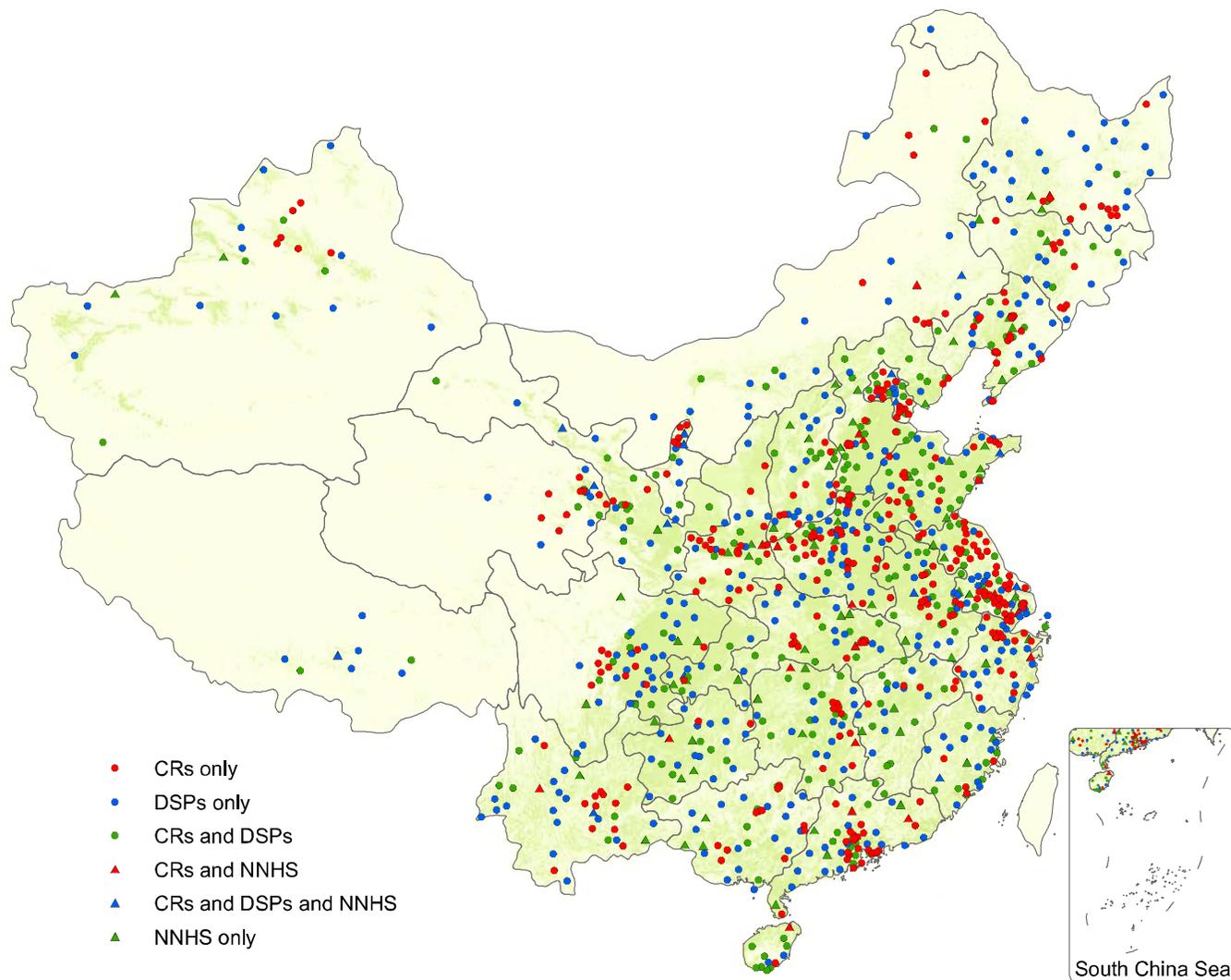
eTable 1. Relative risks of active smoking and specific cancer sites

eTable 2. Comparison of site-specific and all cancer deaths attributable to smoking between Tianjin and Guizhou

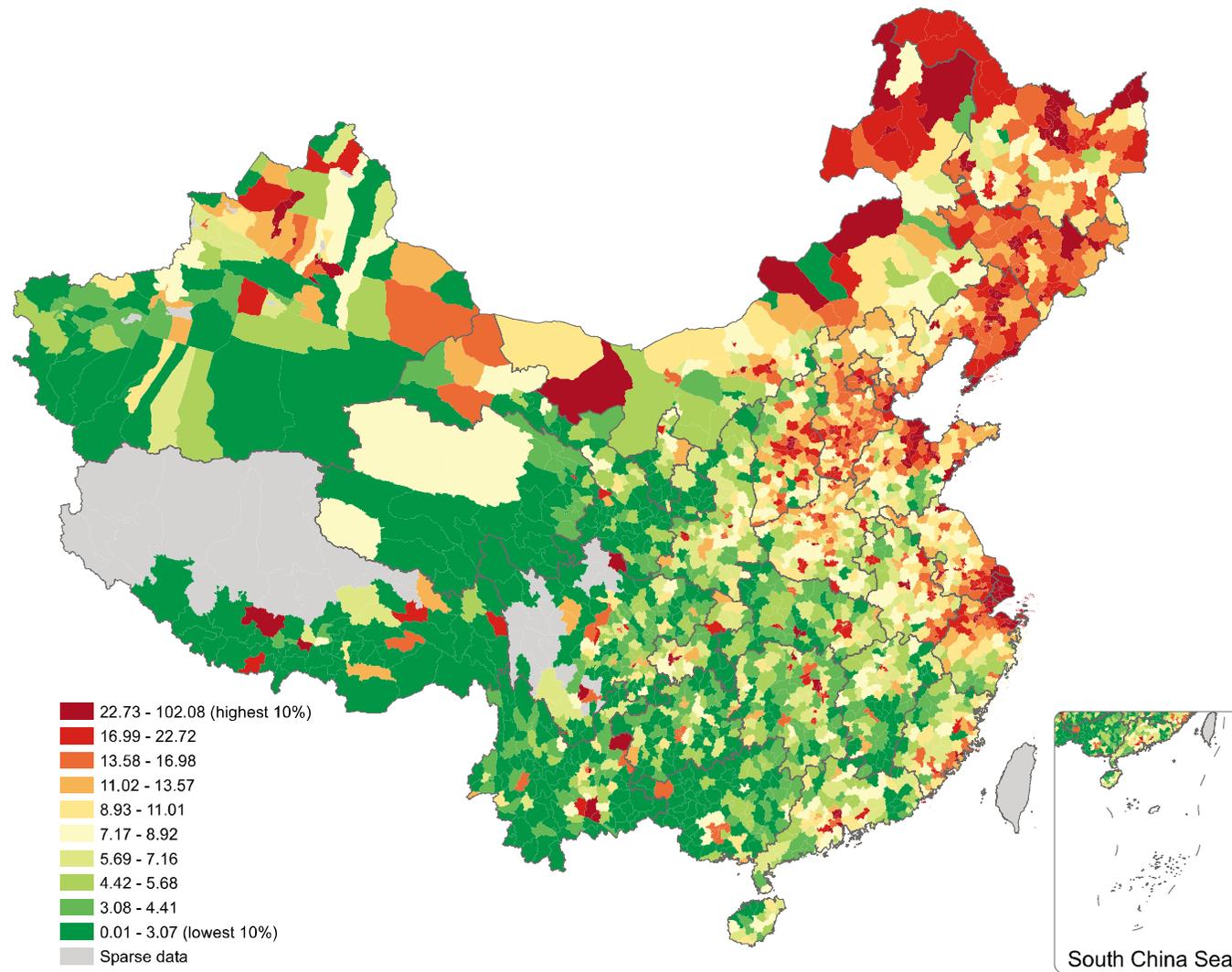
eTable 3. The national standard age- and site-specific cancer proportion for standardized population attributable fractions calculation

eTable 4. Provincial-level age and cancer site standardized population attributable fractions for smoking and cancer death in China, 2014

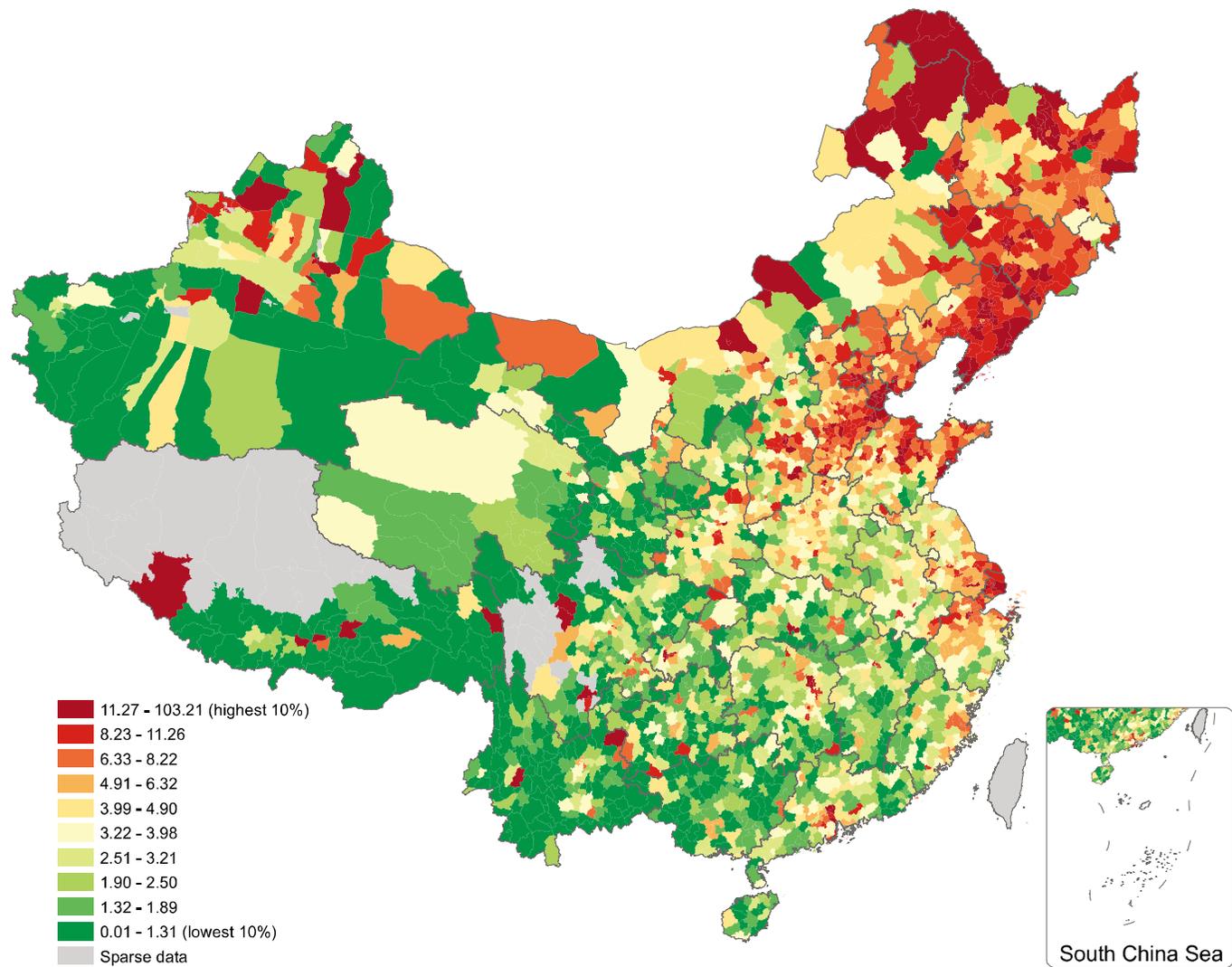
eTable 5. Provincial-level cancer deaths attributable to smoking in adults 30 years and older in China, based on smoking prevalence from cigarette equivalents, age at initiation of smoking, and smoking status, 2014



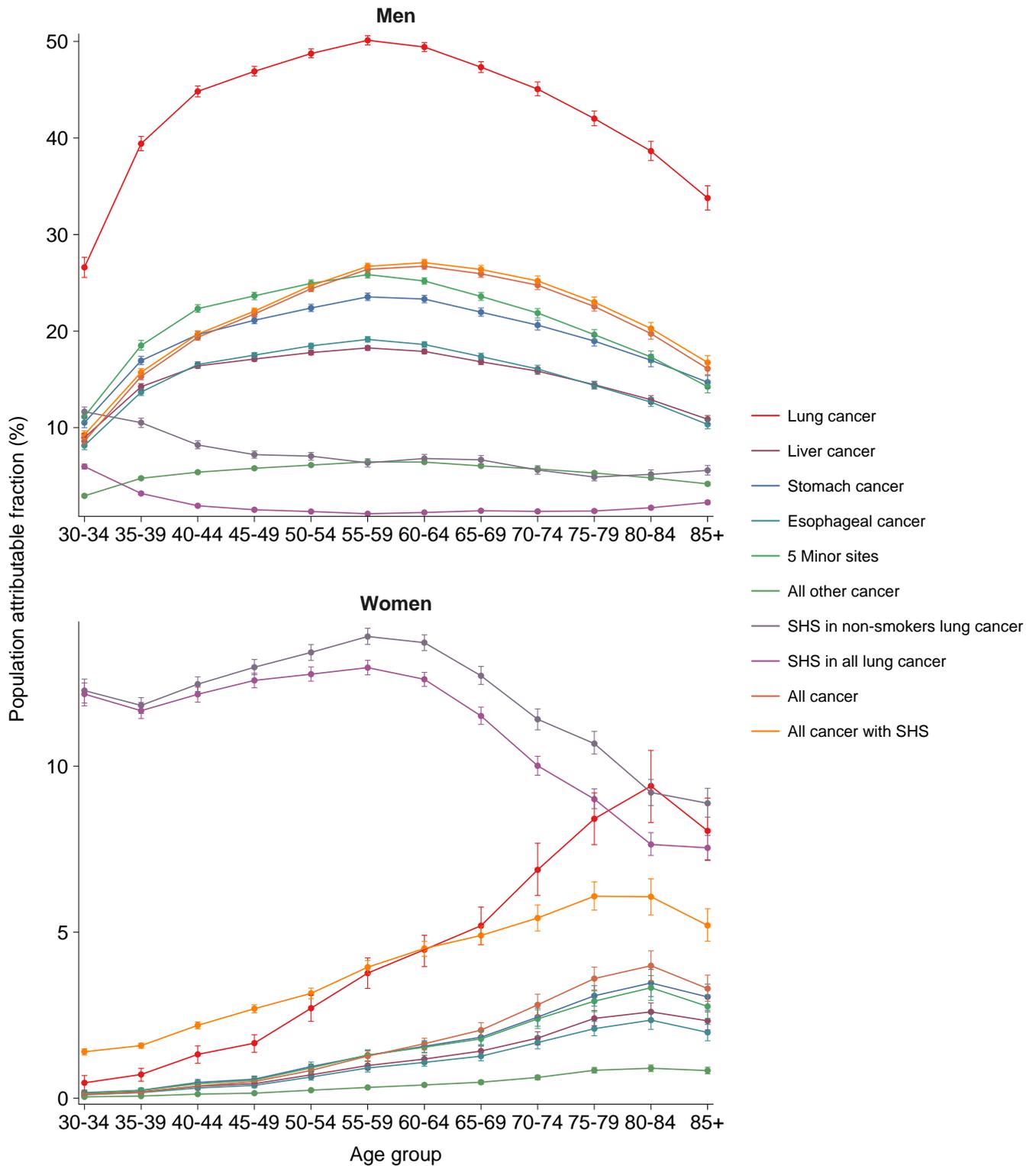
eFigure 1. Location of cancer registries (CRs), diseases surveillance points (DSPs), and Chinese National Nutrition and Health Survey (NNHS). The background with kelly color reflects the population density across China, with the darker color referring to greater population density, and the lightest color referring to a population density that is less than one person per square kilometer. Hong Kong, Macao, and Taiwan are not included.



eFigure 2a. County-level age-standardized lung cancer mortality in China, men, 1973-1975
 Data from the First National Survey of Death Causes, 1973 to 1975.



eFigure 2b. County-level age-standardized lung cancer mortality in China, women, 1973-1975
 Data from the First National Survey of Death Causes, 1973 to 1975.



eFigure 3. Age-specific population attributable fraction of cancer death attributable to smoking for men and women
 Abbreviations: SHS, secondhand smoking.

eTable 1. Relative risks of active smoking and specific cancer sites

Cancer sites	Smoking category		Age at initiation of smoking		Smoking intensity/ Cigarette equivalents	
	Level	RR (95%CI)	Level	RR (95%CI)	Level	RR (95%CI)
All cancer	Never-smoker	1.00 (0.95-1.05)	≥25	1.30 (1.24-1.36)	<15	1.31 (1.25-1.37)
	Former-smoker	1.15 (1.06-1.24)	20-24	1.47 (1.41-1.54)	15-24	1.48 (1.43-1.54)
	Current-smoker	1.44 (1.41-1.48)	<20	1.61 (1.54-1.69)	≥25	1.72 (1.63-1.82)
Lung cancer	Never-smoker	1.00 (0.88-1.14)	≥25	1.90 (1.72-2.10)	<15	1.90 (1.72-2.10)
	Former-smoker	1.53 (1.28-1.81)	20-24	2.64 (2.43-2.87)	15-24	2.68 (2.49-2.89)
	Current-smoker	2.51 (2.37-2.66)	<20	3.17 (2.91-3.46)	≥25	3.59 (3.22-3.99)
Liver cancer	Never-smoker	1.00 (0.87-1.15)	≥25	1.13 (0.99-1.30)	<15	1.30 (1.15-1.46)
	Former-smoker	1.11 (0.88-1.39)	20-24	1.43 (1.27-1.60)	15-24	1.38 (1.24-1.53)
	Current-smoker	1.32 (1.22-1.42)	<20	1.46 (1.29-1.65)	≥25	1.32 (1.11-1.56)
Esophageal Cancer	Never-smoker	1.00 (0.88-1.14)	≥25	1.15 (1.03-1.29)	<15	1.21 (1.09-1.35)
	Former-smoker	1.04 (0.84-1.27)	20-24	1.39 (1.25-1.55)	15-24	1.45 (1.32-1.60)
	Current-smoker	1.34 (1.25-1.44)	<20	1.57 (1.40-1.76)	≥25	1.45 (1.24-1.69)
Stomach cancer	Never-smoker	1.00 (0.86-1.16)	≥25	1.52 (1.34-1.71)	<15	1.37 (1.23-1.54)
	Former-smoker	1.08 (0.84-1.38)	20-24	1.48 (1.31-1.67)	15-24	1.37 (1.21-1.56)
	Current-smoker	1.47 (1.36-1.58)	<20	1.40 (1.23-1.59)	≥25	2.04 (1.74-2.40)
5 Minor sites	Never-smoker	1.00 (0.84-1.19)	≥25	1.45 (1.24-1.69)	<15	1.28 (1.09-1.50)
	Former-smoker	0.98 (0.73-1.31)	20-24	1.41 (1.21-1.64)	15-24	1.66 (1.47-1.88)
	Current-smoker	1.52 (1.38-1.67)	<20	1.79 (1.54-2.09)	≥25	1.75 (1.44-2.12)
All other cancer	Never-smoker	1.00 (0.92-1.08)	≥25	1.09 (1.00-1.18)	<15	1.11 (1.03-1.20)
	Former-smoker	1.12 (0.99-1.27)	20-24	1.10 (1.02-1.19)	15-24	1.07 (0.99-1.15)
	Current-smoker	1.10 (1.05-1.16)	<20	1.14 (1.04-1.24)	≥25	1.20 (1.07-1.33)

eTable 2. Comparison of site-specific and all cancer deaths attributable to smoking between Tianjin and Guizhou

Cancer site	Tianjin			Guizhou		
	Cancer deaths	SACD	PAF, %	Cancer deaths	SACD	PAF, %
Lung cancer	3738	1704	45.6	8940	4539	50.8
Liver cancer	1201	205	17.1	5067	969	19.1
Stomach cancer	858	180	21.0	4239	1046	24.7
Esophageal cancer	406	67	16.5	1235	239	19.3
5 Minor sites	967	220	22.7	2858	750	26.2
All other cancer	2496	142	5.7	11150	764	6.9
All cancer	9666	2519	26.1	33490	8306	24.8

Abbreviations: SACD, smoking attributable cancer death; PAF, population attributable fractions.

eTable 3. The national standard age- and site-specific cancer proportion for standardized population attributable fractions calculation

Age	Esophageal cancer	Stomach cancer	Liver cancer	Lung cancer	5 Minor sites	All other cancer	Non-smokers lung cancer
Men							
30-34	0.000541	0.003027	0.009720	0.001951	0.004571	0.010170	0.004091
35-39	0.001306	0.005001	0.022270	0.004281	0.009243	0.012968	0.005304
40-44	0.009055	0.015353	0.059891	0.014509	0.024403	0.027677	0.013805
45-49	0.032038	0.033487	0.096555	0.032382	0.048774	0.045499	0.027482
50-54	0.054851	0.049802	0.112284	0.054666	0.070725	0.058059	0.041625
55-59	0.099692	0.086660	0.127351	0.090990	0.097818	0.082810	0.063290
60-64	0.157290	0.143086	0.150599	0.144740	0.132607	0.123314	0.105559
65-69	0.167223	0.154831	0.125276	0.156158	0.135893	0.126653	0.133320
70-74	0.158128	0.157898	0.101428	0.154856	0.130908	0.126700	0.149983
75-79	0.145648	0.160593	0.087659	0.156147	0.139014	0.146719	0.178645
80-84	0.110827	0.121215	0.066176	0.119763	0.119011	0.137404	0.161651
85+	0.063401	0.069047	0.040791	0.069557	0.087033	0.102027	0.115245
Total	1	1	1	1	1	1	
All cancer	0.097288	0.142247	0.161125	0.297482	0.080861	0.220997	
All cancer with SHS	0.090701	0.132616	0.150215	0.277340	0.075386	0.206034	0.067707
Women							
30-34	0.000781	0.007705	0.005820	0.003183	0.004443	0.010978	0.003573
35-39	0.001498	0.011165	0.010517	0.006393	0.008234	0.019385	0.007141
40-44	0.005878	0.026750	0.028754	0.019788	0.018383	0.045654	0.021855
45-49	0.012618	0.041349	0.052516	0.038578	0.036590	0.071950	0.042342
50-54	0.023806	0.049977	0.061642	0.049469	0.048978	0.086453	0.053276
55-59	0.046310	0.061508	0.082352	0.069222	0.074609	0.095320	0.073094
60-64	0.107343	0.108804	0.135207	0.114036	0.112645	0.123680	0.118727
65-69	0.142219	0.121884	0.126323	0.122729	0.118290	0.108039	0.125741
70-74	0.155899	0.134586	0.128645	0.135918	0.136818	0.105759	0.135003
75-79	0.187455	0.159970	0.140308	0.168130	0.160116	0.120732	0.160558

Age	Esophageal cancer	Stomach cancer	Liver cancer	Lung cancer	5 Minor sites	All other cancer	Non-smokers lung cancer
80-84	0.174461	0.150672	0.126910	0.153539	0.148967	0.112189	0.144301
85+	0.141732	0.125630	0.101006	0.119015	0.131927	0.099861	0.114389
Total	1	1	1	1	1	1	1
All cancer	0.064253	0.106167	0.101508	0.237487	0.068928	0.421657	
All cancer with SHS	0.053113	0.087759	0.083908	0.196311	0.056977	0.348548	0.173386

Abbreviations: SHS, secondhand smoking.

eTable 4. Provincial-level age and cancer site standardized population attributable fractions for smoking and cancer death in China, 2014

Province	Men		Women	
	PAF, % (95% CI)	Rank	PAF, % (95% CI)	Rank
All cancer with SHS				
Guizhou	26.0 (24.0-28.1)	1	4.0 (2.6-5.2)	13
Yunnan	24.7 (22.6-26.9)	2	2.8 (2.0-3.5)	24
Hunan	24.2 (22.0-26.5)	3	3.8 (2.3-5.2)	14
Shanxi	23.5 (21.7-25.4)	4	3.2 (2.2-4.1)	19
Chongqing	23.3 (21.1-25.6)	5	2.8 (1.8-3.8)	23
Jiangsu	23.2 (21.7-24.8)	6	3.7 (2.7-4.6)	15
Tianjin	23.1 (20.1-26.5)	7	9.6 (6.8-12.4)	2
Shandong	23.1 (21.3-25.1)	8	4.3 (3.0-5.6)	12
Inner Mongolia	23.1 (19.7-26.8)	9	8.8 (5.5-12.4)	4
Guangdong	22.9 (21.2-24.7)	10	3.1 (2.2-4.0)	21
Fujian	22.7 (20.0-25.5)	11	2.4 (1.6-3.2)	26
Gansu	22.5 (19.9-25.3)	12	3.4 (2.1-4.5)	18
Liaoning	22.2 (20.6-24.0)	13	5.8 (4.5-7.2)	6
Zhejiang	22.1 (19.8-24.5)	14	2.9 (1.8-3.8)	22
Henan	22.0 (20.4-23.7)	15	2.3 (1.7-2.8)	29
Hebei	22.0 (20.1-24.0)	16	3.5 (2.3-4.6)	16
Hubei	22.0 (19.8-24.3)	17	4.4 (2.8-6.0)	11
Heilongjiang	21.9 (19.0-25.1)	18	9.6 (6.9-12.5)	1
Anhui	21.7 (19.5-23.9)	19	4.6 (2.9-6.2)	10
Jilin	21.5 (18.4-25.0)	20	9.5 (6.3-12.7)	3
Jiangxi	21.4 (18.5-24.5)	21	1.6 (0.8-2.2)	31
Beijing	21.3 (18.9-23.7)	22	4.6 (3.1-6.1)	9
Sichuan	20.8 (18.6-23.0)	23	3.2 (2.0-4.3)	20
Qinghai	20.7 (17.3-24.2)	24	2.6 (0.8-3.9)	25
Shanghai	20.4 (18.1-22.8)	25	2.4 (1.5-3.1)	27
Tibet	19.6 (14.2-25.9)	26	6.1 (2.6-9.4)	5
Shaanxi	19.4 (17.6-21.3)	27	2.0 (1.1-2.7)	30
Ningxia	19.1 (15.4-23.3)	28	4.9 (2.1-7.4)	8
Guangxi	19.1 (16.2-22.2)	29	3.4 (1.6-5.0)	17
Hainan	19.0 (14.5-24.0)	30	2.3 (1.0-3.3)	28
Xinjiang	15.7 (12.6-19.1)	31	5.1 (2.2-7.7)	7
China	22.2 (21.8-22.6)		4.0 (3.7-4.3)	
All cancer				
Guizhou	27.3 (25.4-29.3)	1	1.8 (0.5-2.9)	16
Yunnan	26.0 (24.0-28.2)	2	0.5 (0.0-0.9)	29
Hunan	25.5 (23.4-27.9)	3	2.1 (0.6-3.4)	14
Chongqing	24.6 (22.5-26.9)	4	1.0 (0.0-1.8)	22
Shanxi	24.6 (22.9-26.5)	5	0.9 (0.0-1.6)	23
Jiangsu	24.5 (22.9-26.1)	6	2.0 (1.1-2.8)	15
Shandong	24.4 (22.5-26.4)	7	2.9 (1.5-4.1)	12
Inner Mongolia	24.2 (20.9-27.9)	8	8.0 (4.7-11.6)	4
Tianjin	24.2 (21.2-27.5)	9	9.0 (6.2-12)	1
Guangdong	24.1 (22.4-25.8)	10	1.4 (0.5-2.2)	19

Province	Men		Women	
	PAF, % (95% CI)	Rank	PAF, % (95% CI)	Rank
Fujian	23.8 (21.2-26.7)	11	0.5 (0.0-0.9)	28
Gansu	23.6 (21.1-26.4)	12	1.1 (0.0-2.0)	20
Liaoning	23.3 (21.7-25.0)	13	4.4 (3.0-5.7)	6
Hebei	23.3 (21.4-25.3)	14	1.7 (0.6-2.7)	17
Hubei	23.2 (21.0-25.5)	15	3.0 (1.4-4.6)	11
Henan	23.2 (21.5-24.9)	16	0.4 (0.0-0.8)	30
Zhejiang	23.1 (20.9-25.6)	17	0.9 (0.0 -1.6)	24
Anhui	23.0 (20.8-25.3)	18	3.5 (1.8-5.1)	9
Heilongjiang	22.8 (19.9-25.9)	19	9.0 (6.1-11.9)	2
Jiangxi	22.8 (19.9-26.0)	20	0.3 (0.0-0.5)	31
Jilin	22.5 (19.4-25.9)	21	8.6 (5.4-11.9)	3
Beijing	22.4 (20.1-24.9)	22	3.2 (1.7-4.5)	10
Sichuan	21.9 (19.8-24.2)	23	1.7 (0.5-2.7)	18
Qinghai	21.9 (18.5-25.5)	24	1.1 (0.0-2.1)	21
Shanghai	21.5 (19.2-23.9)	25	0.6 (0.0-1.1)	26
Shaanxi	20.7 (18.8-22.6)	26	0.8 (0.0-1.4)	25
Tibet	20.6 (15.2-26.9)	27	5.2 (1.8-8.4)	5
Guangxi	20.2 (17.3-23.5)	28	2.5 (0.8-4.1)	13
Ningxia	20.0 (16.3-24.2)	29	3.8 (1.1-6.3)	8
Hainan	19.7 (15.3-24.8)	30	0.6 (-0.4-1.1)	27
Xinjiang	16.4 (13.3-19.8)	31	4.1 (1.2-6.7)	7
China	23.4 (22.9-23.8)		2.4 (2.1-2.7)	
Lung cancer				
Guizhou	50.8 (48.1-54.0)	1	4.7 (1.4-7.6)	16
Yunnan	48.7 (45.5-52.1)	2	1.2 (0.0-2.4)	29
Hunan	48.7 (45.5-52.5)	3	5.7 (1.8-9.2)	14
Chongqing	46.8 (43.4-50.4)	4	2.6 (0.1-4.7)	22
Shandong	46.7 (43.8-50.0)	5	7.7 (4.3-10.9)	12
Jiangsu	46.7 (44.3-49.2)	6	5.3 (3.0-7.5)	15
Shanxi	46.6 (44.0-49.6)	7	2.4 (0.0-4.3)	23
Guangdong	45.9 (43.4-48.8)	8	3.9 (1.5-6.0)	19
Tianjin	45.9 (41.4-51.4)	9	23.1 (16.7-30.1)	1
Fujian	45.6 (41.5-50.2)	10	1.4 (0.0-2.5)	28
Inner Mongolia	45.2 (40.0-51.3)	11	19.9 (12.5-28.6)	4
Hubei	44.7 (41.2-48.6)	12	8.1 (4.0-12.1)	11
Gansu	44.5 (40.5-49.2)	13	2.9 (0.0-5.3)	20
Zhejiang	44.4 (40.7-48.5)	14	2.3 (0.0-4.2)	24
Hebei	44.3 (41.3-47.6)	15	4.5 (1.7-6.9)	18
Liaoning	44.2 (41.6-47.1)	16	11.4 (8.2-14.7)	6
Henan	44.2 (41.5-47.0)	17	1.1 (0.0-2.0)	30
Jiangxi	44.0 (39.3-49.4)	18	0.7 (0.0-1.5)	31
Anhui	43.9 (40.5-47.7)	19	9.0 (4.9-12.9)	9
Jilin	43.3 (38.2-49.0)	20	21.8 (14.2-29.9)	3
Heilongjiang	43.3 (38.6-48.7)	21	22.3 (15.8-29.2)	2
Beijing	42.8 (39.0-47.0)	22	8.3 (4.5-11.7)	10
Sichuan	42.3 (38.8-46.2)	23	4.6 (1.5-7.2)	17

Province	Men		Women	
	PAF, % (95% CI)	Rank	PAF, % (95% CI)	Rank
Qinghai	41.3 (35.8-47.6)	24	2.8 (0.0-5.5)	21
Shanghai	40.9 (37.1-45.0)	25	1.5 (0.0-2.8)	26
Shaanxi	40.0 (37.0-43.4)	26	2.1 (0.0-3.6)	25
Guangxi	39.9 (35.0-45.5)	27	6.6 (2.2-10.9)	13
Tibet	39.7 (31.1-50.9)	28	13.1 (5.2-21.0)	5
Ningxia	39.0 (32.7-46.5)	29	9.8 (3.2-16.0)	8
Hainan	38.7 (31.3-48.0)	30	1.4 (0.0-2.9)	27
Xinjiang	31.5 (26.0-37.6)	31	10.3 (3.2-16.7)	7
China	44.7 (44.0-45.4)		6.4 (5.7-7.1)	
Liver cancer				
Guizhou	19.2 (17.8-20.6)	1	1.2 (0.3-2.0)	17
Yunnan	18.3 (16.9-19.7)	2	0.4 (0.0-0.7)	29
Shanxi	18.1 (16.8-19.4)	3	0.6 (0.0-1.1)	23
Chongqing	17.6 (16.0-19.3)	4	0.7 (0.0-1.2)	22
Inner Mongolia	17.3 (15.2-19.7)	5	6.0 (3.4-8.7)	4
Tianjin	17.2 (15.0-19.5)	6	6.4 (4.3-8.5)	2
Liaoning	17.1 (15.9-18.3)	7	3.1 (2.1-4.0)	7
Hunan	16.9 (15.5-18.5)	8	1.3 (0.5-2.1)	15
Guangdong	16.8 (15.6-18.1)	9	0.9 (0.4-1.4)	19
Gansu	16.8 (15.1-18.6)	10	0.8 (0.0-1.5)	21
Jiangsu	16.8 (15.7-17.9)	11	1.4 (0.8-2.0)	14
Hebei	16.8 (15.4-18.1)	12	1.3 (0.5-1.9)	16
Fujian	16.6 (14.8-18.7)	13	0.4 (0.0-0.7)	28
Qinghai	16.6 (14.3-19.1)	14	0.8 (0.0-1.6)	20
Heilongjiang	16.6 (14.7-18.6)	15	6.6 (4.6-8.7)	1
Shanghai	16.2 (14.5-18.1)	16	0.4 (0.0-0.8)	27
Jilin	16.2 (14.0-18.6)	17	6.2 (4.0-8.5)	3
Henan	16.2 (15.1-17.3)	18	0.3 (0.0-0.5)	30
Zhejiang	16.2 (14.6-17.8)	19	0.6 (0.0-1.0)	24
Anhui	16.2 (14.5-17.9)	20	2.7 (1.4-3.8)	9
Beijing	16.0 (14.3-17.8)	21	2.3 (1.2-3.4)	10
Jiangxi	15.6 (13.5-17.8)	22	0.2 (0.0-0.4)	31
Shandong	15.6 (14.4-16.9)	23	1.7 (0.9-2.4)	12
Hubei	15.3 (13.8-16.8)	24	2.0 (0.9-2.9)	11
Sichuan	14.8 (13.4-16.3)	25	1.0 (0.3-1.6)	18
Tibet	14.8 (10.9-19.1)	26	4.2 (1.2-6.7)	5
Shaanxi	14.4 (13.2-15.7)	27	0.5 (0.1-0.9)	25
Ningxia	14.2 (11.7-16.9)	28	2.8 (0.7-4.6)	8
Hainan	14.2 (10.9-17.6)	29	0.4 (0.0-0.9)	26
Xinjiang	13.0 (10.7-15.3)	30	3.1 (1.0-5.0)	6
Guangxi	12.9 (10.9-15.0)	31	1.6 (0.4-2.5)	13
China	16.3 (16.0-16.6)		1.6 (1.5-1.8)	
Stomach cancer				
Guizhou	24.7 (22.3-27.3)	1	1.7 (0.4-2.7)	17
Yunnan	24.1 (21.5-26.7)	2	0.5 (0.0-0.9)	29
Hunan	22.9 (20.2-25.6)	3	2.1 (0.5-3.4)	14

Province	Men		Women	
	PAF, % (95% CI)	Rank	PAF, % (95% CI)	Rank
Shandong	22.9 (20.5-25.2)	4	2.8 (1.4-4.1)	12
Inner Mongolia	22.8 (18.9-26.9)	5	8.4 (4.3-12.5)	4
Gansu	21.6 (18.6-24.6)	6	1.0 (0.0-1.9)	21
Jiangsu	21.3 (19.6-23.1)	7	1.9 (1.0-2.7)	15
Tianjin	21.3 (17.8-25.0)	8	8.9 (5.5-12)	2
Chongqing	21.2 (18.7-23.8)	9	0.9 (0.0-1.6)	22
Guangdong	20.7 (18.8-22.7)	10	1.3 (0.4-2.1)	19
Shanxi	20.7 (18.6-22.7)	11	0.8 (0.0-1.4)	25
Henan	20.5 (18.6-22.3)	12	0.4 (0.0-0.7)	30
Hubei	20.4 (17.8-23.2)	13	3.0 (1.3-4.5)	10
Fujian	20.2 (17.3-23.2)	14	0.5 (0.0-0.9)	28
Liaoning	20.1 (18.3-21.9)	15	4.2 (2.8-5.6)	6
Hebei	20.0 (17.9-22.1)	16	1.7 (0.5-2.6)	16
Zhejiang	19.9 (17.4-22.6)	17	0.9 (0.0-1.6)	23
Heilongjiang	19.9 (16.5-23.2)	18	9.1 (5.9-12.5)	1
Anhui	19.8 (17.4-22.2)	19	3.3 (1.7-4.8)	9
Beijing	19.3 (16.7-22.0)	20	2.9 (1.5-4.2)	11
Sichuan	19.3 (16.9-21.8)	21	1.7 (0.4-2.6)	18
Jiangxi	19.1 (16.0-22.5)	22	0.2 (0.0-0.4)	31
Qinghai	19.1 (15.3-22.8)	23	1.0 (0.0-2.1)	20
Jilin	18.7 (15.3-22.3)	24	8.7 (4.8-12.4)	3
Shanghai	17.7 (15.3-20.1)	25	0.5 (0.0-1.0)	27
Tibet	17.7 (11.4-24.2)	26	5.3 (1.5-8.4)	5
Guangxi	17.6 (14.3-21.0)	27	2.4 (0.6-4.0)	13
Shaanxi	17.6 (15.6-19.6)	28	0.8 (0.0-1.4)	24
Ningxia	16.6 (12.6-20.7)	29	3.8 (1.2-6.5)	8
Hainan	15.2 (10.8-19.8)	30	0.6 (0.0-1.2)	26
Xinjiang	13.9 (10.9-17.0)	31	4.2 (1.2-6.7)	7
China	20.4 (19.9-20.9)		2.3 (2.0-2.6)	
Esophageal cancer				
Guizhou	19.4 (17.7-21.2)	1	1.3 (0.3-2.2)	16
Hunan	18.1 (16.3-20.0)	2	1.5 (0.4-2.3)	15
Yunnan	17.9 (16.2-19.7)	3	0.3 (0.0-0.6)	29
Shanxi	17.8 (16.2-19.4)	4	0.7 (0.0-1.2)	23
Chongqing	17.6 (15.8-19.5)	5	0.7 (0.0-1.2)	22
Jiangsu	17.5 (16.2-18.9)	6	1.5 (0.8-2.1)	14
Tianjin	17.1 (14.5-19.8)	7	7.3 (4.7-9.7)	1
Fujian	17.0 (14.7-19.5)	8	0.4 (0.0-0.7)	26
Guangdong	16.9 (15.5-18.3)	9	1.0 (0.3-1.6)	19
Shandong	16.5 (15.0-18.1)	10	2.1 (1.1-3.0)	12
Hebei	16.4 (14.9-18.1)	11	1.2 (0.4-1.9)	18
Liaoning	16.3 (15.0-17.7)	12	3.3 (2.2-4.3)	6
Zhejiang	16.3 (14.4-18.3)	13	0.6 (0.0-1.1)	24
Jiangxi	16.2 (13.7-18.9)	14	0.2 (0.0-0.4)	31
Inner Mongolia	16.1 (13.4-18.9)	15	6.1 (3.1-9.1)	4
Hubei	16.0 (14.2-17.9)	16	2.3 (1.0-3.4)	11

Province	Men		Women	
	PAF, % (95% CI)	Rank	PAF, % (95% CI)	Rank
Anhui	15.9 (14.1-17.7)	17	2.5 (1.2-3.7)	9
Jilin	15.9 (13.2-18.8)	18	6.5 (3.7-9.0)	2
Henan	15.7 (14.4-17.1)	19	0.3 (0.0-0.5)	30
Heilongjiang	15.7 (13.4-18.1)	20	6.3 (3.9-8.6)	3
Gansu	15.5 (13.5-17.7)	21	0.8 (0.0-1.4)	20
Beijing	15.3 (13.4-17.2)	22	2.4 (1.2-3.4)	10
Shanghai	15.2 (13.3-17.1)	23	0.4 (0.0-0.7)	28
Qinghai	14.8 (12.1-17.6)	24	0.7 (0.0-1.5)	21
Sichuan	14.6 (12.9-16.3)	25	1.2 (0.3-2.0)	17
Hainan	14.0 (10.0-18.1)	26	0.4 (0.0-0.8)	27
Tibet	13.8 (9.2-18.3)	27	3.8 (1.0-6.0)	5
Shaanxi	13.8 (12.3-15.2)	28	0.5 (0.0-0.9)	25
Ningxia	13.7 (10.5-17.0)	29	3.0 (0.8-4.9)	7
Guangxi	13.4 (11.0-15.8)	30	1.8 (0.5-3.0)	13
Xinjiang	10.1 (7.5-12.5)	31	2.7 (0.5-4.4)	8
China	16.2 (15.8-16.5)		1.7 (1.5-1.9)	
5 Minor sites				
Guizhou	26.2 (24.0-28.6)	1	1.7 (0.3-2.8)	16
Hunan	24.4 (22.0-27.1)	2	1.9 (0.5-3.1)	14
Yunnan	24.1 (21.7-26.6)	3	0.4 (0.0-0.8)	29
Shanxi	23.8 (21.7-25.9)	4	0.9 (0.0-1.6)	23
Chongqing	23.4 (20.9-26.0)	5	0.9 (0.0-1.6)	22
Tianjin	22.9 (19.6-26.6)	6	9.4 (6-12.7)	1
Jiangsu	22.8 (21.1-24.6)	7	1.8 (0.9-2.6)	15
Guangdong	22.5 (20.6-24.5)	8	1.3 (0.4-2.0)	19
Shandong	22.5 (20.5-24.7)	9	2.7 (1.3-3.8)	12
Fujian	22.4 (19.3-25.7)	10	0.5 (0.0-0.8)	27
Hebei	21.8 (19.6-24.0)	11	1.5 (0.5-2.3)	18
Liaoning	21.7 (19.9-23.6)	12	4.2 (2.8-5.5)	6
Hubei	21.7 (19.3-24.3)	13	2.9 (1.3-4.4)	11
Zhejiang	21.6 (19.1-24.3)	14	0.8 (0.0-1.4)	24
Jiangxi	21.6 (18.3-25.2)	15	0.3 (0.0-0.5)	31
Henan	21.2 (19.4-23.1)	16	0.4 (0.0-0.7)	30
Jilin	21.2 (17.6-25.0)	17	8.6 (5-12.1)	3
Inner Mongolia	21.0 (17.5-24.8)	18	7.8 (4.0-11.5)	4
Anhui	20.9 (18.5-23.5)	19	3.2 (1.4-4.7)	9
Heilongjiang	20.9 (17.7-24.1)	20	8.7 (5.5-11.7)	2
Gansu	20.7 (17.8-23.8)	21	0.9 (0.0-1.7)	21
Beijing	20.5 (17.9-23.2)	22	3.0 (1.5-4.4)	10
Sichuan	20.1 (17.9-22.5)	23	1.6 (0.4-2.6)	17
Shanghai	19.9 (17.5-22.6)	24	0.5 (0.0-1.0)	26
Qinghai	19.5 (15.8-23.1)	25	0.9 (0.0-1.8)	20
Tibet	19.1 (13.3-25.5)	26	4.7 (1.2-7.7)	5
Hainan	18.7 (13.7-24.3)	27	0.5 (0.0-0.9)	28
Shaanxi	18.7 (16.8-20.7)	28	0.7 (0.0-1.2)	25
Ningxia	18.3 (14.2-22.5)	29	3.7 (0.8-6.0)	7

Province	Men		Women	
	PAF, % (95% CI)	Rank	PAF, % (95% CI)	Rank
Guangxi	18.2 (15.0-21.5)	30	2.3 (0.6-3.8)	13
Xinjiang	13.0 (9.7-16.3)	31	3.4 (0.7-5.7)	8
China	21.6 (21.2-22.1)		2.2 (1.9-2.5)	
All other cancer				
Guizhou	6.9 (6.1-7.7)	1	0.4 (0.1-0.6)	17
Yunnan	6.9 (6.0-7.7)	2	0.1 (0.0-0.2)	29
Inner Mongolia	6.7 (5.4-8.1)	3	2.1 (1.0-3.0)	3
Gansu	6.4 (5.4-7.4)	4	0.3 (0.0-0.5)	20
Shandong	6.0 (5.3-6.7)	5	0.6 (0.3-0.8)	12
Hunan	5.9 (5.1-6.8)	6	0.4 (0.1-0.7)	14
Jiangsu	5.8 (5.3-6.4)	7	0.4 (0.2-0.6)	15
Chongqing	5.8 (5.0-6.5)	8	0.2 (0.0-0.4)	22
Guangdong	5.7 (5.1-6.3)	9	0.3 (0.1-0.5)	19
Henan	5.7 (5.1-6.2)	10	0.1 (0.0-0.2)	30
Shanxi	5.6 (5.0-6.3)	11	0.2 (0.0-0.3)	25
Fujian	5.6 (4.7-6.6)	12	0.1 (0.0-0.2)	28
Tianjin	5.6 (4.5-6.7)	13	2.0 (1.2-2.7)	4
Anhui	5.6 (4.8-6.4)	14	0.9 (0.4-1.3)	8
Qinghai	5.5 (4.3-6.7)	15	0.3 (0.0-0.5)	21
Liaoning	5.5 (4.9-6.1)	16	1.0 (0.6-1.2)	7
Heilongjiang	5.4 (4.4-6.4)	17	2.4 (1.5-3.2)	1
Hebei	5.4 (4.8-6.1)	18	0.4 (0.1-0.6)	16
Beijing	5.4 (4.5-6.2)	19	0.7 (0.3-1.0)	10
Hubei	5.3 (4.6-6.1)	20	0.6 (0.3-0.9)	11
Zhejiang	5.3 (4.5-6.1)	21	0.2 (0.0-0.3)	23
Sichuan	5.1 (4.3-5.8)	22	0.3 (0.1-0.5)	18
Jiangxi	5.1 (4.1-6.1)	23	0.0 (0.0-0.1)	31
Jilin	5.0 (3.9-6.0)	24	2.1 (1.2-3.0)	2
Shaanxi	4.8 (4.2-5.4)	25	0.2 (0.0-0.3)	24
Shanghai	4.8 (4.0-5.5)	26	0.1 (0.0-0.3)	27
Guangxi	4.6 (3.6-5.6)	27	0.5 (0.1-0.8)	13
Tibet	4.6 (2.7-6.4)	28	1.4 (0.3-2.3)	5
Xinjiang	4.4 (3.4-5.5)	29	1.2 (0.3-1.8)	6
Ningxia	4.4 (3.1-5.5)	30	0.9 (0.2-1.5)	9
Hainan	4.0 (2.7-5.3)	31	0.2 (0.0-0.3)	26
China	5.5 (5.4-5.7)		0.5 (0.5-0.6)	
SHS in non-smokers lung cancer				
Heilongjiang	9.9 (6.7-13.3)	1	12.9 (10.5-15.3)	6
Hainan	8.9 (4.5-13.5)	2	10.6 (7.4-13.9)	22
Guizhou	8.5 (5.5-11.3)	3	14.5 (12.8-16.1)	1
Tianjin	8.3 (4.7-11.9)	4	12.2 (9.7-14.8)	10
Shanxi	8.2 (5.8-10.6)	5	14.4 (12.8-15.9)	2
Jilin	8.1 (4.4-11.8)	6	13.7 (11.0-16.5)	5
Zhejiang	7.4 (4.9-9.9)	7	12.6 (10.8-14.5)	8
Liaoning	7.3 (5.4-9.2)	8	12.9 (11.5-14.2)	7
Gansu	7.1 (3.8-10.3)	9	14.1 (12.1-16.1)	3

Province	Men		Women	
	PAF, % (95% CI)	Rank	PAF, % (95% CI)	Rank
Ningxia	7.0 (3.4-10.5)	10	10.1 (7.0-12.9)	24
Guangdong	7.0 (5.0-9.0)	11	11.3 (10.0-12.6)	18
Inner Mongolia	7.0 (2.6-10.9)	12	12.3 (9.2-15.8)	9
Fujian	6.4 (2.9-9.4)	13	11.4 (9.1-13.8)	16
Henan	6.3 (4.5-8.1)	14	11.2 (10.0-12.4)	19
Tibet	6.3 (1.4-11.1)	15	9.9 (6.4-13.8)	25
Xinjiang	6.2 (2.7-9.5)	16	9.8 (6.8-12.9)	27
Yunnan	6.1 (3.2-9.0)	17	14.0 (12.3-15.6)	4
Jiangsu	6.1 (4.2-8.0)	18	11.8 (10.6-13.0)	12
Hubei	5.9 (3.5-8.1)	19	11.0 (9.3-12.7)	21
Hunan	5.7 (3.2-8.0)	20	11.8 (10.2-13.5)	13
Shanghai	5.6 (3.2-7.9)	21	11.0 (9.4-12.7)	20
Shandong	5.6 (3.8-7.3)	22	11.3 (10.0-12.7)	17
Beijing	5.5 (3.2-7.8)	23	11.6 (9.9-13.4)	15
Sichuan	4.9 (3.1-6.7)	24	10.4 (8.9-12.0)	23
Chongqing	4.5 (2.2-6.8)	25	11.7 (10.1-13.4)	14
Hebei	4.3 (2.2-6.1)	26	12.1 (10.4-13.7)	11
Anhui	3.9 (1.8-5.9)	27	9.6 (7.7-11.5)	28
Qinghai	3.5 (0.3-6.2)	28	9.8 (7.0-12.5)	26
Guangxi	3.0 (1.0-5.0)	29	7.5 (5.5-9.5)	31
Shaanxi	2.7 (1.4-3.9)	30	7.8 (6.5-9.1)	30
Jiangxi	2.0 (0.0-3.7)	31	7.9 (5.4-10.2)	29
China	5.9 (5.5-6.3)		11.5 (11.2-11.8)	

Abbreviations: PAF, population attributable fractions; CI, confidence intervals; SHS, secondhand smoking.

eTable 5. Provincial-level cancer deaths attributable to smoking in adults 30 years and older in China, based on smoking prevalence from cigarette equivalents, age at initiation of smoking, and smoking status, 2014

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Men									
All cancer with SHS									
Tianjin	2594	26.8 (23.4-30.7)	1	2704	28.0 (24.6-31.7)	3	2559	26.5 (23.4-29.8)	2
Shandong	29782	26.8 (24.7-29.0)	2	28775	25.9 (23.9-28.0)	8	27723	24.9 (23.2-26.8)	7
Chongqing	10651	26.5 (24.1-29.0)	3	11425	28.4 (26.1-30.9)	1	10580	26.3 (24.3-28.5)	3
Heilongjiang	11294	26.4 (23.1-30.0)	4	12099	28.3 (25.1-31.8)	2	11567	27.0 (24.2-30.2)	1
Hunan	18187	26.3 (24.0-28.8)	5	18283	26.4 (24.2-28.7)	5	17197	24.8 (22.9-27.0)	9
Guizhou	8430	25.2 (23.3-27.2)	6	8501	25.4 (23.7-27.3)	11	8238	24.6 (23.0-26.3)	11
Shanxi	8645	25.1 (23.2-27.1)	7	9269	26.9 (25.1-28.9)	4	8898	25.8 (24.2-27.7)	4
Jilin	6528	24.7 (21.3-28.4)	8	6870	26.0 (22.6-29.7)	6	6634	25.1 (22.1-28.5)	6
Jiangsu	24769	24.6 (22.9-26.3)	9	25043	24.9 (23.2-26.6)	15	24950	24.8 (23.3-26.3)	10
Liaoning	13027	24.4 (22.6-26.3)	10	13643	25.5 (23.8-27.4)	10	13295	24.9 (23.3-26.5)	8
Hubei	15481	24.3 (22.0-26.8)	11	15480	24.3 (22.1-26.8)	17	15089	23.7 (21.7-25.9)	16
Yunnan	7964	24.2 (22.2-26.4)	12	8401	25.6 (23.7-27.5)	9	8026	24.4 (22.8-26.2)	12
Inner Mongolia	6351	24.1 (20.7-27.9)	13	6808	25.9 (22.5-29.7)	7	6747	25.6 (22.7-29.1)	5
Zhejiang	14946	24.0 (21.5-26.7)	14	14352	23.0 (20.6-25.7)	23	14726	23.6 (21.3-26.0)	18
Henan	25968	23.9 (22.1-25.8)	15	27241	25.1 (23.4-26.9)	14	26213	24.1 (22.6-25.8)	13
Guangdong	21551	23.8 (22.1-25.6)	16	22875	25.2 (23.5-27.1)	13	21441	23.7 (22.1-25.2)	17
Hebei	17133	23.0 (21.1-25.1)	17	18781	25.2 (23.3-27.3)	12	17636	23.7 (22.0-25.6)	15
Anhui	18251	23.0 (20.7-25.5)	18	19513	24.6 (22.3-27.1)	16	18958	23.9 (21.8-26.2)	14
Fujian	8535	23.0 (20.3-25.9)	19	8964	24.1 (21.5-27.0)	18	8667	23.3 (21.0-26.0)	19
Jiangxi	10099	22.7 (19.6-26.0)	20	10678	24.0 (20.9-27.3)	19	10188	22.9 (20.1-25.9)	21
Sichuan	25271	22.5 (20.2-24.9)	21	26275	23.4 (21.2-25.7)	20	24675	22.0 (19.9-24.1)	23
Shaanxi	7812	22.3 (20.2-24.4)	22	8175	23.3 (21.4-25.4)	21	8060	23.0 (21.2-24.9)	20
Gansu	5335	21.6 (19.1-24.3)	23	5443	22.1 (19.7-24.5)	24	5549	22.5 (20.4-24.8)	22
Beijing	3371	21.6 (19.0-24.2)	24	3633	23.2 (20.8-25.9)	22	3418	21.9 (19.6-24.3)	24

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Hainan	1719	20.3 (15.4-25.8)	25	1736	20.5 (15.5-26.2)	26	1730	20.4 (15.9-25.7)	27
Qinghai	973	20.3 (16.9-23.8)	26	1054	22.0 (18.7-25.6)	25	1030	21.5 (18.4-24.8)	25
Shanghai	4627	19.8 (17.5-22.2)	27	4699	20.1 (17.9-22.5)	27	4809	20.6 (18.5-22.9)	26
Ningxia	998	19.3 (15.4-23.7)	28	1021	19.8 (15.9-24.1)	28	1029	19.9 (16.3-24.0)	28
Guangxi	10312	18.5 (15.6-21.6)	29	10029	18.0 (15.2-21.0)	30	10225	18.3 (15.8-21.1)	29
Tibet	210	16.7 (11.9-22.0)	30	217	17.3 (12.6-22.4)	31	204	16.3 (12.2-21.1)	31
Xinjiang	1891	14.6 (11.5-17.9)	31	2380	18.4 (14.8-22.4)	29	2248	17.4 (14.0-21.1)	30
China	342854	23.8 (23.3-24.3)		355858	24.7 (24.3-25.1)		343903	23.9 (23.5-24.3)	
All cancer									
Shandong	29284	26.3 (24.4-28.4)	1	28277	25.4 (23.6-27.4)	7	27225	24.5 (22.9-26.2)	6
Chongqing	10516	26.1 (23.9-28.5)	2	11290	28.1 (25.9-30.4)	1	10445	26.0 (24.1-28.0)	2
Tianjin	2519	26.1 (23.0-29.6)	3	2629	27.2 (24.2-30.6)	3	2483	25.7 (23.0-28.7)	3
Hunan	17895	25.9 (23.8-28.2)	4	17991	26.0 (24.0-28.1)	5	16904	24.4 (22.7-26.4)	8
Heilongjiang	10915	25.5 (22.5-28.8)	5	11720	27.4 (24.6-30.6)	2	11188	26.1 (23.6-29.0)	1
Guizhou	8306	24.8 (23.1-26.7)	6	8376	25.0 (23.4-26.8)	10	8114	24.2 (22.8-25.8)	11
Shanxi	8476	24.6 (22.8-26.5)	7	9101	26.4 (24.7-28.3)	4	8729	25.4 (23.8-27.0)	4
Jiangsu	24428	24.3 (22.7-25.9)	8	24701	24.5 (23.0-26.2)	15	24608	24.4 (23.1-25.9)	7
Jilin	6341	24.0 (20.9-27.4)	9	6684	25.3 (22.2-28.7)	9	6447	24.4 (21.7-27.5)	9
Yunnan	7869	23.9 (22.0-25.9)	10	8307	25.3 (23.5-27.1)	8	7931	24.1 (22.6-25.8)	12
Liaoning	12721	23.8 (22.2-25.5)	11	13337	25.0 (23.4-26.7)	11	12989	24.3 (22.9-25.8)	10
Hubei	15165	23.8 (21.6-26.2)	12	15163	23.8 (21.7-26.1)	17	14772	23.2 (21.3-25.2)	17
Inner Mongolia	6255	23.8 (20.5-27.3)	13	6713	25.5 (22.4-29.1)	6	6651	25.3 (22.6-28.5)	5
Henan	25472	23.5 (21.8-25.2)	14	26746	24.6 (23.1-26.3)	14	25717	23.7 (22.3-25.2)	13
Zhejiang	14575	23.4 (21.1-25.9)	15	13980	22.4 (20.2-24.9)	23	14354	23.0 (21.0-25.2)	18
Guangdong	21147	23.3 (21.7-25.0)	16	22471	24.8 (23.2-26.5)	13	21037	23.2 (21.8-24.7)	16
Anhui	18041	22.8 (20.5-25.1)	17	19303	24.4 (22.1-26.7)	16	18748	23.7 (21.7-25.8)	14
Hebei	16914	22.7 (20.9-24.7)	18	18562	24.9 (23.2-26.9)	12	17417	23.4 (21.8-25.2)	15
Fujian	8400	22.6 (20.1-25.3)	19	8829	23.8 (21.3-26.5)	19	8532	23.0 (20.8-25.5)	19

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Jiangxi	10028	22.5 (19.6-25.7)	20	10607	23.8 (20.9-27.0)	18	10117	22.7 (20.1-25.6)	21
Sichuan	24767	22.1 (19.9-24.3)	21	25771	23.0 (20.9-25.1)	21	24171	21.5 (19.7-23.5)	23
Shaanxi	7719	22.0 (20.1-24.0)	22	8082	23.1 (21.2-25.0)	20	7967	22.7 (21.0-24.5)	20
Gansu	5266	21.3 (19.0-23.9)	23	5374	21.8 (19.6-24.1)	25	5481	22.2 (20.2-24.4)	22
Beijing	3294	21.1 (18.8-23.5)	24	3557	22.7 (20.5-25.2)	22	3342	21.4 (19.4-23.6)	24
Qinghai	965	20.1 (16.9-23.5)	25	1047	21.8 (18.7-25.3)	24	1022	21.3 (18.4-24.5)	25
Hainan	1649	19.5 (15.0-24.5)	26	1666	19.7 (15.1-24.9)	27	1660	19.6 (15.5-24.4)	27
Shanghai	4525	19.4 (17.3-21.6)	27	4596	19.7 (17.6-21.9)	26	4707	20.2 (18.2-22.3)	26
Ningxia	970	18.8 (15.1-22.9)	28	994	19.3 (15.6-23.3)	28	1001	19.4 (16.0-23.2)	28
Guangxi	10169	18.2 (15.5-21.2)	29	9886	17.7 (15.1-20.6)	30	10083	18.1 (15.7-20.7)	29
Tibet	207	16.5 (11.8-21.6)	30	213	17.0 (12.5-22.0)	31	201	16.0 (12.1-20.7)	31
Xinjiang	1826	14.1 (11.3-17.2)	31	2315	17.9 (14.6-21.6)	29	2183	16.9 (13.8-20.3)	30
China	336674	23.4 (22.9-23.8)		349678	24.3 (23.9-24.7)		337723	23.4 (23.1-23.8)	
Lung cancer									
Guizhou	4539	50.8 (48.0-53.9)	1	4570	51.1 (48.5-54.1)	2	4500	50.3 (48.0-53.1)	1
Hunan	11663	48.7 (45.6-52.5)	2	11690	48.8 (45.7-52.3)	6	11124	46.5 (43.7-49.7)	9
Yunnan	4399	48.6 (45.5-52.1)	3	4667	51.6 (48.8-54.7)	1	4520	50.0 (47.5-52.8)	2
Shandong	17227	47.1 (44.2-50.3)	4	16768	45.8 (43.0-48.8)	18	16299	44.5 (42.1-47.2)	19
Chongqing	6682	46.9 (43.6-50.5)	5	7129	50.1 (47.0-53.6)	3	6712	47.1 (44.4-50.3)	7
Jiangsu	12581	46.8 (44.4-49.3)	6	12710	47.2 (44.9-49.9)	11	12811	47.6 (45.6-49.9)	6
Shanxi	4626	46.7 (44.0-49.7)	7	4944	49.9 (47.3-52.9)	4	4772	48.2 (45.8-50.8)	4
Guangdong	11884	45.9 (43.3-48.7)	8	12576	48.5 (46.1-51.3)	8	12001	46.3 (44.1-48.8)	10
Fujian	4355	45.7 (41.6-50.2)	9	4567	47.9 (44.1-52.3)	9	4476	46.9 (43.4-51.1)	8
Tianjin	1704	45.6 (41.0-51.1)	10	1786	47.8 (43.3-53.1)	10	1697	45.4 (41.2-50.2)	15
Inner Mongolia	3334	45.2 (40.0-51.3)	11	3593	48.8 (44.0-54.7)	7	3623	49.2 (45.0-54.6)	3
Hubei	9190	44.9 (41.5-48.7)	12	9170	44.8 (41.6-48.6)	20	9054	44.2 (41.3-47.6)	20
Gansu	2071	44.8 (40.9-49.3)	13	2114	45.7 (42.0-49.8)	19	2208	47.7 (44.5-51.5)	5
Hebei	9548	44.5 (41.5-47.8)	14	10513	49.0 (46.1-52.2)	5	9932	46.3 (43.7-49.3)	11

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Liaoning	7705	44.3 (41.7-47.2)	15	8070	46.4 (43.9-49.3)	15	7968	45.8 (43.5-48.3)	12
Henan	13850	44.2 (41.6-47.0)	16	14564	46.5 (44.0-49.1)	14	14205	45.3 (43.1-47.7)	16
Zhejiang	8621	44.1 (40.5-48.3)	17	8226	42.1 (38.5-46.2)	25	8576	43.9 (40.6-47.6)	22
Jiangxi	5833	43.9 (39.3-49.4)	18	6163	46.4 (41.9-51.8)	16	5945	44.8 (40.7-49.8)	18
Heilongjiang	6781	43.7 (39.2-49.0)	19	7264	46.8 (42.6-51.8)	12	7044	45.4 (41.6-49.9)	14
Jilin	3877	43.7 (38.9-49.3)	20	4076	46.0 (41.3-51.5)	17	3985	44.9 (40.8-50.1)	17
Anhui	9655	43.4 (40.0-47.3)	21	10358	46.6 (43.2-50.3)	13	10163	45.7 (42.7-49.1)	13
Sichuan	14278	42.2 (38.7-46.1)	22	14845	43.9 (40.8-47.5)	23	14138	41.8 (38.7-45.2)	25
Beijing	2089	41.3 (37.4-45.6)	23	2258	44.6 (40.9-48.9)	21	2149	42.5 (39.1-46.4)	23
Tibet	63	40.7 (32.4-51.6)	24	65	42.4 (33.8-53.3)	24	62	40.6 (33.1-51.3)	27
Qinghai	361	40.4 (34.8-46.7)	25	395	44.2 (38.8-50.7)	22	394	44.1 (39.2-50.1)	21
Shaanxi	4358	40.2 (37.2-43.5)	26	4564	42.1 (39.3-45.2)	26	4550	42.0 (39.3-44.9)	24
Shanghai	2675	39.9 (36.0-43.9)	27	2700	40.2 (36.6-44.3)	28	2803	41.8 (38.4-45.6)	26
Guangxi	5576	39.7 (34.7-45.4)	28	5438	38.7 (33.9-44.1)	30	5634	40.1 (35.7-45.0)	29
Ningxia	451	38.7 (32.3-46.3)	29	457	39.1 (32.8-46.5)	29	472	40.4 (34.6-47.5)	28
Hainan	896	38.1 (30.6-47.5)	30	897	38.2 (30.5-47.8)	31	913	38.9 (31.8-47.8)	30
Xinjiang	842	30.8 (25.3-37.1)	31	1106	40.5 (34.3-48.1)	27	1047	38.4 (32.5-45.3)	31
China	191469	44.7 (44.0-45.4)		198904	46.4 (45.8-47.1)		194609	45.4 (44.8-46.0)	
Liver cancer									
Guizhou	969	19.1 (17.8-20.5)	1	1041	20.5 (19.0-22.3)	1	921	18.2 (16.9-19.5)	1
Yunnan	897	18.3 (17.0-19.8)	2	1000	20.4 (18.8-22.2)	2	869	17.8 (16.5-19.1)	2
Shanxi	686	18.1 (16.8-19.4)	3	754	19.9 (18.4-21.4)	3	648	17.1 (15.9-18.3)	4
Chongqing	1162	17.6 (16.0-19.3)	4	1310	19.9 (17.9-21.9)	4	1094	16.6 (15.1-18.2)	6
Inner Mongolia	736	17.4 (15.2-19.7)	5	786	18.5 (15.7-21.5)	8	735	17.3 (15.2-19.7)	3
Liaoning	1349	17.2 (16.0-18.4)	6	1444	18.4 (17.0-19.8)	10	1290	16.4 (15.4-17.6)	7
Tianjin	205	17.1 (14.9-19.4)	7	228	19.0 (16.4-21.7)	6	195	16.2 (14.3-18.3)	9
Gansu	538	16.9 (15.2-18.7)	8	531	16.7 (14.6-18.8)	21	530	16.7 (15.0-18.4)	5
Hunan	1780	16.9 (15.4-18.5)	9	1946	18.5 (16.7-20.3)	9	1673	15.9 (14.5-17.4)	14

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Heilongjiang	1567	16.8 (15.0-18.8)	10	1752	18.8 (16.7-21.1)	7	1511	16.2 (14.5-18.1)	10
Hebei	1449	16.8 (15.5-18.2)	11	1653	19.2 (17.6-20.8)	5	1383	16.0 (14.8-17.3)	11
Jiangsu	2336	16.8 (15.7-18.0)	12	2363	17.0 (15.7-18.4)	19	2228	16.0 (15.0-17.2)	12
Qinghai	162	16.8 (14.5-19.2)	13	175	18.2 (15.5-21.0)	11	157	16.3 (14.1-18.7)	8
Guangdong	3397	16.8 (15.6-18.0)	14	3670	18.1 (16.7-19.6)	12	3222	15.9 (14.8-17.0)	13
Fujian	1151	16.6 (14.7-18.6)	15	1229	17.7 (15.4-20.0)	15	1089	15.7 (13.9-17.6)	15
Jilin	843	16.4 (14.3-18.7)	16	924	18.0 (15.5-20.6)	13	797	15.5 (13.5-17.6)	17
Henan	2838	16.2 (15.1-17.3)	17	3108	17.7 (16.4-19.1)	14	2730	15.6 (14.5-16.7)	16
Zhejiang	1571	16.2 (14.6-17.8)	18	1521	15.6 (13.8-17.5)	25	1489	15.3 (13.8-16.8)	19
Anhui	1801	16.1 (14.4-17.8)	19	1895	16.9 (14.9-18.9)	20	1730	15.4 (13.9-17.0)	18
Shanghai	345	15.9 (14.2-17.6)	20	333	15.3 (13.4-17.3)	27	329	15.1 (13.5-16.8)	21
Shandong	2496	15.8 (14.6-17.0)	21	2701	17.1 (15.6-18.6)	18	2393	15.2 (14.0-16.3)	20
Tibet	40	15.6 (11.8-19.9)	22	44	17.1 (12.6-22.0)	17	38	14.6 (11.0-18.6)	23
Beijing	281	15.6 (13.9-17.3)	23	319	17.6 (15.6-19.7)	16	270	14.9 (13.3-16.6)	22
Jiangxi	1297	15.4 (13.3-17.6)	24	1383	16.4 (14.0-19.0)	22	1220	14.5 (12.5-16.6)	25
Hubei	1594	15.3 (13.9-16.8)	25	1677	16.1 (14.4-17.9)	24	1510	14.5 (13.2-16.0)	24
Sichuan	2822	14.8 (13.4-16.2)	26	3139	16.4 (14.7-18.2)	23	2688	14.1 (12.7-15.4)	26
Shaanxi	690	14.5 (13.2-15.7)	27	738	15.5 (14.0-16.9)	26	661	13.8 (12.7-15.1)	27
Ningxia	136	14.4 (12.0-17.0)	28	137	14.5 (11.7-17.4)	29	130	13.7 (11.4-16.3)	28
Hainan	286	14.1 (10.8-17.5)	29	281	13.8 (10.1-17.6)	30	268	13.2 (10.2-16.4)	29
Guangxi	1781	12.8 (10.8-14.9)	30	1707	12.3 (10.0-14.6)	31	1703	12.2 (10.3-14.2)	31
Xinjiang	194	12.7 (10.4-15.1)	31	230	15.1 (12.3-18.1)	28	196	12.9 (10.6-15.3)	30
China	37899	16.3 (16.0-16.6)		40722	17.5 (17.2-17.9)		36196	15.6 (15.3-15.9)	
Stomach cancer									
Guizhou	1046	24.7 (22.3-27.2)	1	1015	24.0 (22.2-25.8)	1	1015	24.0 (22.2-25.8)	1
Yunnan	865	24.0 (21.4-26.5)	2	851	23.6 (21.8-25.5)	2	857	23.7 (21.9-25.7)	2
Shandong	4308	23.1 (20.8-25.5)	3	3718	20.0 (18.3-21.7)	19	3726	20.0 (18.4-21.7)	20
Inner Mongolia	857	22.9 (19.0-26.9)	4	876	23.4 (20.3-26.9)	3	869	23.2 (20.1-26.6)	3

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Hunan	1289	22.9 (20.2-25.6)	5	1174	20.8 (18.9-22.9)	12	1195	21.2 (19.2-23.3)	10
Gansu	1495	21.8 (19.0-24.7)	6	1564	22.8 (20.5-25.3)	4	1525	22.2 (20.0-24.6)	5
Jiangsu	3754	21.3 (19.6-23.1)	7	3914	22.2 (20.8-23.8)	6	3867	22.0 (20.5-23.5)	6
Chongqing	731	21.2 (18.7-23.8)	8	729	21.1 (19.2-23.2)	8	745	21.6 (19.7-23.7)	7
Tianjin	180	21.0 (17.5-24.7)	9	175	20.4 (17.6-23.4)	18	177	20.6 (17.8-23.6)	16
Shanxi	1536	20.8 (18.8-22.7)	10	1661	22.5 (20.8-24.2)	5	1668	22.5 (20.9-24.3)	4
Guangdong	1462	20.6 (18.7-22.6)	11	1461	20.6 (19.1-22.2)	15	1489	21.0 (19.4-22.6)	11
Hubei	1638	20.5 (17.9-23.2)	12	1586	19.9 (17.9-21.9)	22	1583	19.8 (17.9-21.9)	21
Henan	4050	20.5 (18.7-22.3)	13	4047	20.5 (18.9-22.1)	16	4049	20.5 (19.0-22.0)	17
Heilongjiang	818	20.2 (17.0-23.4)	14	840	20.8 (18.2-23.6)	13	843	20.8 (18.3-23.5)	14
Fujian	1202	20.2 (17.2-23.2)	15	1282	21.5 (19.0-24.3)	7	1278	21.4 (19.0-24.1)	8
Hebei	2514	20.1 (18.1-22.2)	16	2623	21.0 (19.2-22.8)	10	2660	21.3 (19.6-23.1)	9
Liaoning	1150	20.1 (18.3-21.9)	17	1198	21.0 (19.4-22.5)	11	1194	20.9 (19.4-22.5)	12
Anhui	3047	19.6 (17.2-22.0)	18	3219	20.7 (18.7-22.9)	14	3225	20.8 (18.8-23.0)	15
Qinghai	281	19.6 (15.9-23.2)	19	302	21.0 (18.0-24.3)	9	300	20.9 (17.9-24.2)	13
Zhejiang	1627	19.5 (16.9-22.2)	20	1664	19.9 (17.6-22.3)	20	1622	19.4 (17.2-21.7)	22
Sichuan	2671	19.2 (16.7-21.7)	21	2497	18.0 (16.1-19.9)	26	2533	18.2 (16.3-20.2)	25
Jiangxi	1205	19.1 (15.9-22.4)	22	1257	19.9 (17.1-22.9)	21	1269	20.1 (17.3-23.1)	19
Jilin	528	19.0 (15.7-22.4)	23	569	20.4 (17.6-23.6)	17	566	20.3 (17.4-23.4)	18
Tibet	62	18.3 (12.0-24.8)	24	60	17.6 (12.6-23.0)	29	61	17.9 (13.1-23.5)	27
Beijing	228	18.2 (15.5-20.9)	25	228	18.2 (15.9-20.6)	25	231	18.4 (16.3-20.7)	23
Shaanxi	1252	17.7 (15.8-19.7)	26	1320	18.7 (17.0-20.4)	23	1304	18.4 (16.8-20.1)	24
Guangxi	936	17.5 (14.2-20.9)	27	939	17.6 (14.8-20.4)	28	919	17.2 (14.6-20.0)	29
Shanghai	441	16.5 (14.2-18.8)	28	491	18.4 (16.3-20.7)	24	480	18.0 (15.8-20.2)	26
Ningxia	205	16.4 (12.4-20.6)	29	224	17.9 (14.2-21.8)	27	219	17.5 (13.9-21.3)	28
Hainan	135	14.8 (10.4-19.3)	30	152	16.7 (12.1-21.4)	30	151	16.5 (12.3-21.0)	30
Xinjiang	380	13.8 (10.8-16.9)	31	448	16.3 (12.8-19.8)	31	454	16.5 (13.1-20.2)	31
China	41785	20.4 (19.9-20.9)		42082	20.5 (20.2-20.9)		42101	20.5 (20.2-20.9)	

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Esophageal cancer									
Guizhou	239	19.3 (17.6-21.1)	1	244	19.8 (17.9-21.6)	2	230	18.6 (17.2-20.1)	1
Hunan	408	18.2 (16.4-20.1)	2	425	19.0 (17.0-21.0)	6	370	16.5 (15.0-18.1)	11
Yunnan	284	18.0 (16.3-19.8)	3	321	20.4 (18.5-22.4)	1	291	18.5 (17.0-20.0)	2
Shanxi	640	17.9 (16.3-19.5)	4	695	19.4 (17.7-21.2)	4	626	17.5 (16.1-18.9)	4
Chongqing	744	17.6 (15.7-19.5)	5	836	19.7 (17.6-21.9)	3	712	16.8 (15.2-18.5)	7
Jiangsu	2839	17.4 (16.1-18.8)	6	2774	17.0 (15.5-18.6)	18	2772	17.0 (15.8-18.2)	6
Fujian	620	17.0 (14.7-19.4)	7	650	17.8 (15.3-20.4)	12	607	16.6 (14.7-18.8)	9
Guangdong	1030	17.0 (15.6-18.4)	8	1137	18.7 (17.1-20.5)	7	996	16.4 (15.2-17.7)	12
Liaoning	602	16.8 (15.5-18.1)	9	641	17.9 (16.4-19.4)	11	599	16.7 (15.5-17.9)	8
Shandong	2434	16.7 (15.2-18.3)	10	2463	16.9 (15.3-18.6)	19	2260	15.5 (14.2-16.8)	20
Tianjin	67	16.5 (14.0-19.3)	11	74	18.2 (15.3-21.3)	9	64	15.9 (13.6-18.3)	17
Hebei	1251	16.5 (15.0-18.2)	12	1449	19.2 (17.4-21.0)	5	1248	16.5 (15.1-18.0)	10
Jilin	252	16.4 (13.8-19.2)	13	265	17.3 (14.5-20.1)	13	245	15.9 (13.7-18.3)	15
Inner Mongolia	448	16.2 (13.7-19.0)	14	514	18.6 (15.6-21.9)	8	502	18.2 (15.7-20.8)	3
Zhejiang	730	16.2 (14.2-18.2)	15	652	14.4 (12.4-16.4)	27	691	15.3 (13.6-17.1)	21
Jiangxi	374	16.2 (13.6-18.9)	16	399	17.2 (14.3-20.2)	14	360	15.6 (13.3-17.9)	19
Heilongjiang	412	16.1 (13.9-18.4)	17	463	18.1 (15.8-20.7)	10	418	16.4 (14.4-18.5)	13
Hubei	856	16.1 (14.3-18.0)	18	859	16.2 (14.3-18.2)	21	810	15.3 (13.7-16.9)	22
Gansu	425	15.8 (13.7-17.9)	19	428	15.8 (13.6-18.1)	23	463	17.1 (15.3-19.0)	5
Henan	2548	15.7 (14.4-17.1)	20	2783	17.1 (15.7-18.6)	16	2567	15.8 (14.6-17.0)	18
Anhui	1580	15.6 (13.8-17.5)	21	1725	17.0 (15.0-19.2)	17	1622	16.0 (14.4-17.8)	14
Beijing	145	15.0 (13.1-16.9)	22	167	17.2 (15.1-19.5)	15	144	14.9 (13.2-16.7)	23
Qinghai	75	14.9 (12.1-17.7)	23	83	16.5 (13.3-19.6)	20	81	15.9 (13.4-18.6)	16
Shanghai	154	14.8 (13.0-16.7)	24	147	14.1 (12.2-16.1)	28	153	14.7 (13.1-16.4)	24
Sichuan	2181	14.6 (12.9-16.3)	25	2399	16.0 (14.1-17.9)	22	2111	14.1 (12.6-15.6)	25
Tibet	11	14.2 (9.7-18.7)	26	12	15.4 (10.4-20.9)	24	10	13.5 (9.7-17.9)	27
Hainan	82	14.2 (10.4-18.2)	27	78	13.5 (9.6-17.6)	29	77	13.3 (10.0-16.7)	29

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Shaanxi	682	13.8 (12.4-15.3)	28	716	14.5 (13.0-16.1)	25	693	14.1 (12.7-15.4)	26
Ningxia	65	13.4 (10.1-16.8)	29	62	12.7 (9.3-16.0)	30	65	13.4 (10.4-16.5)	28
Guangxi	285	13.3 (10.9-15.7)	30	267	12.5 (10.0-15.0)	31	281	13.1 (11.0-15.3)	30
Xinjiang	140	9.9 (7.4-12.4)	31	204	14.5 (11.1-17.9)	26	178	12.7 (9.9-15.6)	31
China	22667	16.2 (15.8-16.5)		24013	17.1 (16.7-17.5)		22318	15.9 (15.6-16.2)	
5 Minor sites									
Guizhou	750	26.2 (24.1-28.6)	1	748	26.2 (24.1-28.4)	1	741	25.9 (24.2-27.8)	1
Hunan	1527	24.6 (22.2-27.2)	2	1506	24.3 (21.9-26.7)	6	1422	22.9 (20.9-25.1)	9
Yunnan	676	24.0 (21.6-26.5)	3	727	25.8 (23.6-28.2)	2	715	25.4 (23.5-27.6)	2
Shanxi	574	23.6 (21.5-25.8)	4	583	24.0 (21.9-26.1)	7	587	24.1 (22.3-26.1)	4
Chongqing	692	23.4 (20.9-25.9)	5	733	24.8 (22.3-27.3)	3	688	23.3 (21.2-25.5)	7
Jiangsu	1883	22.9 (21.1-24.8)	6	1878	22.9 (21.2-24.7)	8	1917	23.4 (21.8-25.0)	6
Guangdong	2123	22.9 (21.0-24.8)	7	2282	24.6 (22.7-26.6)	5	2121	22.9 (21.3-24.5)	10
Tianjin	220	22.7 (19.4-26.4)	8	221	22.8 (19.4-26.5)	10	217	22.4 (19.5-25.6)	14
Shandong	1720	22.6 (20.6-24.8)	9	1635	21.5 (19.5-23.5)	19	1628	21.4 (19.6-23.2)	21
Fujian	605	22.5 (19.5-25.7)	10	607	22.6 (19.7-25.7)	12	617	22.9 (20.3-25.8)	8
Hubei	1118	21.8 (19.4-24.4)	11	1104	21.5 (19.2-23.9)	18	1100	21.4 (19.3-23.7)	20
Liaoning	1153	21.7 (19.8-23.5)	12	1192	22.4 (20.7-24.2)	14	1198	22.5 (20.9-24.2)	11
Jiangxi	783	21.4 (18.2-25.0)	13	814	22.3 (18.9-25.9)	16	784	21.4 (18.4-24.7)	18
Hebei	1098	21.4 (19.2-23.7)	14	1173	22.9 (20.7-25.1)	9	1151	22.5 (20.5-24.5)	13
Zhejiang	1276	21.4 (18.9-24.1)	15	1183	19.9 (17.5-22.3)	25	1254	21.1 (18.8-23.4)	22
Jilin	564	21.4 (17.9-25.2)	16	553	21.0 (17.7-24.5)	21	574	21.8 (18.8-25.1)	17
Heilongjiang	962	21.3 (18.1-24.4)	17	1016	22.5 (19.5-25.6)	13	1017	22.5 (19.9-25.4)	12
Henan	1151	21.1 (19.3-23.0)	18	1199	22.0 (20.2-23.9)	17	1200	22.0 (20.4-23.7)	16
Inner Mongolia	480	21.0 (17.4-24.8)	19	565	24.7 (21.0-28.9)	4	566	24.8 (21.4-28.7)	3
Gansu	385	20.9 (18.1-23.9)	20	411	22.3 (19.7-24.9)	15	435	23.6 (21.0-26.2)	5
Anhui	1141	20.7 (18.2-23.2)	21	1248	22.6 (20.1-25.3)	11	1217	22.0 (19.8-24.5)	15
Tibet	14	20.0 (14.4-26.4)	22	15	20.9 (14.9-27.5)	22	14	19.6 (14.4-25.4)	27

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Sichuan	1711	20.0 (17.7-22.4)	23	1782	20.8 (18.5-23.2)	23	1703	19.9 (17.8-22.0)	24
Beijing	289	19.1 (16.5-21.8)	24	314	20.8 (18.0-23.5)	24	302	20.0 (17.6-22.6)	23
Qinghai	45	19.0 (15.3-22.6)	25	49	21.0 (17.3-25.0)	20	50	21.4 (17.9-25.1)	19
Hainan	187	18.9 (14.1-24.3)	26	187	18.9 (14.1-24.1)	26	185	18.7 (14.3-23.7)	28
Shanghai	554	18.9 (16.5-21.5)	27	554	18.9 (16.5-21.4)	27	579	19.8 (17.5-22.2)	26
Shaanxi	512	18.8 (16.9-20.8)	28	516	18.9 (17.0-20.8)	28	542	19.9 (18.1-21.7)	25
Guangxi	859	18.1 (15.0-21.3)	29	851	17.9 (15.0-20.9)	30	877	18.5 (15.7-21.4)	30
Ningxia	72	17.8 (13.6-22.2)	30	72	18.0 (14.0-22.2)	29	75	18.6 (14.6-22.9)	29
Xinjiang	108	12.5 (9.1-15.8)	31	153	17.7 (13.5-22.0)	31	150	17.3 (13.6-21.3)	31
China	25221	21.6 (21.2-22.1)		25938	22.3 (21.8-22.7)		25758	22.1 (21.7-22.5)	
All other cancer									
Guizhou	764	6.9 (6.1-7.6)	1	758	6.8 (6.2-7.5)	1	707	6.3 (5.8-6.9)	1
Yunnan	749	6.8 (6.0-7.6)	2	741	6.8 (6.1-7.5)	2	680	6.2 (5.6-6.8)	2
Inner Mongolia	401	6.8 (5.5-8.1)	3	380	6.4 (5.3-7.6)	3	357	6.0 (5.1-7.1)	3
Gansu	351	6.4 (5.5-7.4)	4	326	6.0 (5.2-6.7)	10	320	5.9 (5.1-6.6)	5
Shandong	1100	6.1 (5.4-6.8)	5	992	5.5 (4.9-6.0)	18	919	5.1 (4.6-5.6)	20
Hunan	1227	5.9 (5.1-6.8)	6	1249	6.0 (5.3-6.8)	7	1122	5.4 (4.8-6.1)	12
Jiangsu	1036	5.8 (5.3-6.4)	7	1062	6.0 (5.5-6.5)	9	1013	5.7 (5.3-6.2)	6
Chongqing	505	5.8 (5.0-6.5)	8	553	6.3 (5.6-7.1)	5	493	5.6 (5.0-6.3)	7
Guangdong	1251	5.7 (5.1-6.3)	9	1345	6.1 (5.5-6.7)	6	1208	5.5 (5.0-6.0)	9
Tianjin	142	5.7 (4.6-6.8)	10	146	5.8 (4.9-6.9)	14	133	5.3 (4.5-6.2)	14
Henan	1036	5.7 (5.1-6.2)	11	1046	5.7 (5.2-6.2)	15	967	5.3 (4.8-5.8)	15
Shanxi	414	5.7 (5.1-6.3)	12	463	6.3 (5.7-6.9)	4	428	5.9 (5.3-6.4)	4
Liaoning	762	5.6 (5.0-6.2)	13	791	5.8 (5.3-6.4)	13	739	5.5 (5.0-5.9)	10
Fujian	467	5.6 (4.6-6.6)	14	494	5.9 (5.0-6.8)	11	465	5.6 (4.8-6.4)	8
Anhui	816	5.6 (4.8-6.3)	15	860	5.9 (5.1-6.6)	12	792	5.4 (4.7-6.1)	13
Hebei	1055	5.5 (4.9-6.1)	16	1152	6.0 (5.4-6.7)	8	1043	5.4 (4.9-6.0)	11
Heilongjiang	375	5.5 (4.5-6.4)	17	385	5.6 (4.7-6.5)	16	357	5.2 (4.4-6.0)	16

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Qinghai	41	5.4 (4.2-6.6)	18	41	5.4 (4.3-6.6)	19	39	5.1 (4.1-6.2)	17
Hubei	770	5.3 (4.6-6.1)	19	768	5.3 (4.7-6.0)	22	715	5.0 (4.4-5.6)	22
Zhejiang	749	5.3 (4.5-6.0)	20	735	5.2 (4.5-5.9)	23	721	5.1 (4.4-5.7)	21
Beijing	262	5.2 (4.4-6.0)	21	271	5.4 (4.6-6.2)	21	246	4.9 (4.2-5.6)	23
Jiangxi	537	5.1 (4.1-6.1)	22	591	5.6 (4.6-6.6)	17	540	5.1 (4.2-6.0)	19
Sichuan	1105	5.1 (4.3-5.8)	23	1109	5.1 (4.4-5.7)	24	998	4.6 (4.0-5.2)	26
Jilin	276	5.0 (4.0-6.0)	24	297	5.4 (4.4-6.4)	20	281	5.1 (4.2-6.0)	18
Shaanxi	225	4.8 (4.2-5.4)	25	228	4.8 (4.3-5.4)	26	217	4.6 (4.1-5.1)	25
Guangxi	731	4.7 (3.7-5.7)	26	683	4.4 (3.6-5.3)	30	668	4.3 (3.5-5.2)	30
Tibet	17	4.7 (2.8-6.5)	27	18	4.9 (3.2-6.6)	25	16	4.4 (3.0-5.9)	28
Shanghai	358	4.6 (3.9-5.3)	28	372	4.8 (4.1-5.4)	27	362	4.6 (4.0-5.2)	24
Ningxia	41	4.5 (3.4-5.6)	29	42	4.7 (3.6-5.7)	29	41	4.5 (3.5-5.5)	27
Xinjiang	164	4.5 (3.5-5.5)	30	173	4.7 (3.6-5.9)	28	158	4.3 (3.3-5.3)	29
Hainan	62	3.9 (2.5-5.2)	31	70	4.4 (3.0-5.7)	31	67	4.1 (2.9-5.5)	31
China	17633	5.5 (5.4-5.7)		18020	5.7 (5.5-5.8)		16741	5.3 (5.1-5.4)	
Women									
All cancer with SHS									
Heilongjiang	4128	14.9 (10.9-19.0)	1	4676	16.9 (12.7-21.4)	1	4484	16.2 (12.4-20.2)	1
Tianjin	985	14.5 (10.5-18.7)	2	994	14.6 (10.7-18.8)	2	1017	14.9 (11.2-19.0)	2
Jilin	2384	13.1 (8.9-17.4)	3	2577	14.1 (10.2-18.3)	3	2523	13.8 (10.0-17.9)	3
Inner Mongolia	1499	10.4 (6.6-14.5)	4	1608	11.2 (7.0-15.5)	4	1673	11.6 (7.7-15.8)	4
Liaoning	2800	8.0 (6.3-9.8)	5	2902	8.3 (6.5-10.1)	5	3074	8.8 (7.0-10.7)	5
Shandong	4224	6.1 (4.3-7.9)	6	4099	5.9 (4.2-7.6)	7	4297	6.2 (4.5-7.9)	7
Beijing	622	6.0 (4.0-7.8)	7	722	6.9 (4.5-9.3)	6	711	6.8 (4.6-9.0)	6
Tibet	53	5.1 (2.0-7.9)	8	56	5.4 (2.1-8.5)	9	62	5.9 (2.5-9.3)	8
Ningxia	168	5.1 (2.1-7.8)	9	168	5.1 (2.1-7.8)	11	191	5.8 (2.6-8.9)	10
Anhui	2210	5.0 (3.1-6.8)	10	2503	5.7 (3.5-7.8)	8	2607	5.9 (3.7-8.0)	9
Hubei	1736	4.8 (3.1-6.6)	11	1731	4.8 (3.1-6.5)	12	1827	5.1 (3.3-6.8)	13

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Xinjiang	397	4.6 (1.9-7.0)	12	402	4.7 (2.1-7.1)	13	460	5.3 (2.4-8.2)	11
Hebei	2072	4.6 (3.1-5.9)	13	2380	5.3 (3.3-7.0)	10	2335	5.2 (3.4-6.8)	12
Hunan	1514	4.4 (2.7-5.9)	14	1509	4.3 (2.7-5.8)	15	1560	4.5 (2.8-6.0)	16
Guizhou	867	4.3 (2.9-5.6)	15	883	4.4 (2.9-5.8)	14	924	4.6 (3.1-6.0)	14
Sichuan	2492	4.2 (2.6-5.7)	16	2482	4.2 (2.6-5.7)	16	2565	4.4 (2.8-5.8)	17
Jiangsu	2513	4.1 (3.0-5.1)	17	2562	4.2 (3.0-5.3)	17	2843	4.6 (3.4-5.8)	15
Chongqing	818	3.9 (2.5-5.1)	18	852	4.1 (2.5-5.5)	18	869	4.2 (2.6-5.5)	18
Zhejiang	1235	3.8 (2.3-4.9)	19	1258	3.8 (2.2-5.1)	19	1290	3.9 (2.4-5.2)	19
Guangxi	966	3.7 (1.7-5.5)	20	994	3.8 (1.8-5.7)	20	1024	3.9 (1.9-5.7)	20
Guangdong	1647	3.7 (2.6-4.7)	21	1673	3.7 (2.6-4.8)	21	1722	3.8 (2.7-4.9)	21
Shanxi	726	3.4 (2.3-4.3)	22	729	3.4 (2.3-4.4)	22	747	3.5 (2.3-4.5)	22
Yunnan	602	3.0 (2.2-3.7)	23	609	3.1 (2.2-3.8)	23	632	3.2 (2.2-4.0)	23
Gansu	426	2.8 (1.7-3.8)	24	431	2.9 (1.7-3.9)	24	462	3.1 (1.8-4.2)	24
Hainan	142	2.7 (1.2-4.0)	25	147	2.8 (1.1-4.2)	25	156	3.0 (1.1-4.5)	25
Henan	1933	2.7 (2.0-3.3)	26	1930	2.7 (2.0-3.3)	27	2016	2.8 (2.1-3.5)	27
Qinghai	77	2.6 (0.7-4.1)	27	83	2.8 (0.6-4.5)	26	87	3.0 (0.6-4.7)	26
Fujian	472	2.4 (1.6-3.2)	28	484	2.5 (1.6-3.3)	28	504	2.6 (1.6-3.5)	29
Shanghai	391	2.4 (1.5-3.2)	29	393	2.4 (1.5-3.2)	29	418	2.6 (1.5-3.5)	28
Shaanxi	510	2.3 (1.4-3.1)	30	514	2.3 (1.4-3.1)	30	542	2.5 (1.5-3.3)	30
Jiangxi	427	1.8 (0.9-2.6)	31	438	1.9 (0.8-2.7)	31	438	1.9 (0.8-2.7)	31
China	40313	4.8 (4.5-5.2)		41995	5.0 (4.7-5.4)		43557	5.2 (4.9-5.6)	
All cancer									
Tianjin	802	11.8 (8.4-15.5)	1	811	11.9 (8.6-15.6)	2	834	12.2 (9.0-15.8)	2
Heilongjiang	3257	11.8 (8.3-15.3)	2	3805	13.7 (10.1-17.7)	1	3612	13.0 (9.8-16.5)	1
Jilin	1860	10.2 (6.6-13.9)	3	2052	11.3 (7.8-14.9)	3	1999	11.0 (7.6-14.5)	3
Inner Mongolia	1170	8.1 (4.8-11.7)	4	1278	8.9 (5.2-12.7)	4	1343	9.3 (5.9-13.0)	4
Liaoning	1690	4.8 (3.4-6.3)	5	1792	5.1 (3.6-6.6)	5	1964	5.6 (4.1-7.2)	5
Tibet	42	4.0 (1.3-6.5)	6	45	4.4 (1.4-7.1)	7	51	4.9 (1.8-7.9)	6

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Beijing	362	3.5 (1.9-4.9)	7	462	4.4 (2.4-6.4)	6	451	4.3 (2.5-6.1)	8
Anhui	1516	3.4 (1.8-5.0)	8	1810	4.1 (2.2-5.9)	8	1913	4.3 (2.5-6.1)	7
Ningxia	111	3.4 (0.9-5.6)	9	111	3.3 (0.9-5.6)	10	134	4.0 (1.3-6.7)	9
Xinjiang	284	3.3 (1.0-5.3)	10	289	3.4 (1.2-5.4)	9	348	4.0 (1.5-6.5)	10
Shandong	2249	3.3 (1.8-4.6)	11	2124	3.1 (1.7-4.4)	11	2322	3.4 (2.0-4.7)	11
Hubei	998	2.8 (1.3-4.2)	12	993	2.8 (1.3-4.1)	12	1089	3.0 (1.5-4.5)	12
Guangxi	607	2.3 (0.7-3.8)	13	635	2.4 (0.8-3.9)	14	665	2.5 (0.9-4.0)	13
Jiangsu	1231	2.0 (1.1-2.8)	14	1280	2.1 (1.1-2.9)	15	1560	2.5 (1.5-3.5)	14
Hunan	683	2.0 (0.6-3.2)	15	679	2.0 (0.6-3.1)	16	730	2.1 (0.8-3.3)	16
Sichuan	1062	1.8 (0.6-2.9)	16	1052	1.8 (0.5-2.9)	17	1134	1.9 (0.7-3.0)	17
Hebei	797	1.8 (0.6-2.7)	17	1104	2.4 (0.9-3.8)	13	1060	2.3 (1.0-3.6)	15
Guizhou	306	1.5 (0.4-2.5)	18	323	1.6 (0.4-2.6)	18	364	1.8 (0.6-2.9)	18
Guangdong	606	1.4 (0.5-2.1)	19	632	1.4 (0.5-2.2)	19	681	1.5 (0.6-2.3)	19
Chongqing	209	1.0 (0.0-1.8)	20	243	1.2 (0.0-2.1)	21	260	1.2 (0.1-2.2)	21
Qinghai	29	1.0 (0.0-1.9)	21	35	1.2 (0.0-2.4)	20	39	1.3 (0.0-2.6)	20
Zhejiang	301	0.9 (0.0-1.7)	22	324	1.0 (0.0-1.8)	22	356	1.1 (0.0-1.9)	22
Gansu	122	0.8 (0.0-1.5)	23	126	0.8 (0.0-1.5)	23	157	1.1 (0.0-1.9)	23
Shanxi	172	0.8 (0.0-1.4)	24	174	0.8 (0.0-1.5)	24	192	0.9 (0.0-1.6)	24
Shaanxi	156	0.7 (0.0-1.2)	25	160	0.7 (0.1-1.2)	25	188	0.9 (0.1-1.5)	26
Hainan	30	0.6 (0.0-1.2)	26	35	0.7 (0.0-1.4)	26	44	0.9 (0.0-1.7)	25
Shanghai	89	0.6 (0.0-1.0)	27	92	0.6 (0.0-1.0)	27	116	0.7 (0.0-1.3)	27
Fujian	91	0.5 (0.0-0.8)	28	102	0.5 (0.0-0.9)	28	122	0.6 (0.0-1.1)	28
Henan	292	0.4 (0.0-0.7)	29	289	0.4 (0.0-0.7)	30	374	0.5 (0.0-0.9)	30
Yunnan	81	0.4 (0.0-0.8)	30	88	0.4 (0.0-0.8)	29	111	0.6 (0.0-1.1)	29
Jiangxi	56	0.2 (0.0-0.5)	31	68	0.3 (0.0-0.6)	31	68	0.3 (0.0-0.6)	31
China	20143	2.4 (2.1-2.7)		21824	2.6 (2.3-2.9)		23387	2.8 (2.5-3.1)	
Lung cancer									
Tianjin	620	24.0 (17.6-31.2)	1	629	24.3 (18.0-31.6)	2	651	25.2 (19.1-32.2)	1

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Heilongjiang	2430	22.2 (16.0-28.7)	2	2884	26.3 (19.8-33.8)	1	2752	25.1 (19.2-31.5)	2
Jilin	1339	21.7 (14.4-29.5)	3	1496	24.3 (17.5-31.9)	3	1468	23.8 (17.0-31.3)	3
Inner Mongolia	749	19.1 (11.9-27.3)	4	831	21.2 (13.2-30.1)	4	892	22.7 (15.1-31.2)	4
Tibet	17	12.5 (4.8-20.1)	5	19	13.9 (5.3-22.1)	5	23	16.8 (7.2-27.0)	5
Liaoning	1236	11.4 (8.2-14.8)	6	1319	12.2 (8.8-15.7)	6	1477	13.7 (10.2-17.3)	6
Xinjiang	147	10.2 (3.3-16.4)	7	154	10.6 (4.2-17.0)	9	197	13.6 (5.6-21.7)	7
Anhui	826	9.3 (5.1-13.2)	8	1020	11.4 (6.5-16.4)	8	1107	12.4 (7.4-17.3)	8
Ningxia	61	9.2 (2.7-15.2)	9	59	8.9 (2.8-14.9)	10	77	11.6 (4.5-19.4)	9
Beijing	252	8.9 (5.0-12.6)	10	331	11.7 (6.6-16.9)	7	327	11.6 (6.9-16.1)	10
Shandong	1565	7.8 (4.3-11.1)	11	1476	7.4 (4.0-10.5)	12	1650	8.2 (5.0-11.4)	12
Hubei	600	7.8 (3.8-11.7)	12	599	7.8 (3.9-11.6)	11	680	8.8 (4.7-12.9)	11
Guangxi	372	6.8 (2.3-11.2)	13	399	7.3 (2.5-11.7)	13	426	7.8 (3.1-12.2)	13
Hunan	447	5.7 (1.8-9.2)	14	450	5.7 (1.9-9.1)	15	497	6.3 (2.5-9.9)	15
Jiangsu	649	5.4 (3.1-7.6)	15	672	5.6 (3.1-7.8)	16	868	7.2 (4.3-10.0)	14
Sichuan	699	4.7 (1.5-7.4)	16	696	4.6 (1.5-7.4)	18	767	5.1 (1.9-8.0)	18
Guizhou	186	4.5 (1.2-7.3)	17	196	4.7 (1.3-7.7)	17	233	5.6 (2.0-8.9)	17
Hebei	514	4.4 (1.7-6.8)	18	753	6.5 (2.5-10.2)	14	726	6.3 (2.7-9.7)	16
Guangdong	389	3.9 (1.5-6.0)	19	412	4.1 (1.6-6.4)	19	454	4.5 (2.0-6.9)	19
Qinghai	15	2.8 (0.0-5.6)	20	19	3.6 (0.0-7.2)	20	22	4.1 (0.0-8.3)	20
Gansu	58	2.6 (0.0-4.6)	21	59	2.6 (0.0-4.7)	23	82	3.6 (0.3-6.6)	21
Chongqing	139	2.5 (0.1-4.6)	22	166	3.0 (0.0-5.6)	21	181	3.3 (0.2-5.8)	22
Shanxi	99	2.4 (0.0-4.4)	23	99	2.5 (0.0-4.4)	24	113	2.8 (0.0-5.0)	24
Zhejiang	188	2.4 (0.0-4.4)	24	206	2.6 (0.0-4.8)	22	234	3.0 (0.0-5.3)	23
Shaanxi	90	2.0 (0.1-3.4)	25	93	2.0 (0.2-3.4)	25	115	2.5 (0.5-4.3)	26
Shanghai	50	1.7 (0.0-3.0)	26	50	1.7 (0.0-3.1)	27	69	2.3 (0.0-4.2)	27
Hainan	17	1.6 (0.0-3.1)	27	21	1.9 (0.0-3.9)	26	28	2.6 (0.0-5.2)	25
Fujian	49	1.4 (0.0-2.5)	28	57	1.6 (0.1-2.9)	28	73	2.1 (0.2-3.6)	28
Yunnan	46	1.2 (0.0-2.3)	29	51	1.3 (0.0-2.6)	29	71	1.9 (0.0-3.5)	29

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Henan	169	1.1 (0.0-2.0)	30	169	1.1 (0.0-2.1)	30	233	1.5 (0.0-2.7)	30
Jiangxi	34	0.7 (0.0-1.4)	31	43	0.9 (0.0-1.8)	31	43	0.9 (0.0-1.8)	31
China	12680	6.4 (5.7-7.1)		13978	7.0 (6.3-7.8)		15348	7.7 (6.9-8.5)	
Liver cancer									
Tianjin	32	6.7 (4.5-8.9)	1	29	6.1 (3.8-8.3)	3	31	6.5 (4.3-8.6)	2
Heilongjiang	222	6.6 (4.7-8.6)	2	242	7.2 (4.8-9.5)	1	222	6.6 (4.7-8.7)	1
Jilin	134	6.3 (4.1-8.5)	3	140	6.6 (4.1-9.0)	2	132	6.2 (4.1-8.4)	3
Inner Mongolia	87	5.8 (3.3-8.2)	4	78	5.1 (2.4-7.7)	4	88	5.8 (3.3-8.3)	4
Tibet	4	4.1 (1.2-6.6)	5	3	3.1 (0.5-5.1)	5	4	4.2 (1.3-6.6)	5
Liaoning	88	3.1 (2.1-4.0)	6	72	2.5 (1.6-3.4)	7	87	3.1 (2.1-3.9)	7
Xinjiang	22	3.1 (1.1-4.8)	7	17	2.3 (0.6-3.7)	9	23	3.2 (1.1-5.0)	6
Anhui	121	2.7 (1.5-3.9)	8	106	2.4 (1.1-3.6)	8	123	2.8 (1.5-4.0)	8
Beijing	19	2.6 (1.4-3.8)	9	19	2.6 (1.2-3.8)	6	19	2.6 (1.4-3.8)	9
Ningxia	11	2.3 (0.4-3.9)	10	7	1.4 (0.0-2.5)	11	11	2.3 (0.6-3.8)	10
Hubei	82	1.9 (0.9-2.8)	11	66	1.5 (0.6-2.4)	10	81	1.9 (0.9-2.8)	11
Shandong	105	1.7 (1.0-2.4)	12	86	1.4 (0.7-2.1)	13	103	1.7 (0.9-2.4)	12
Guangxi	55	1.6 (0.4-2.5)	13	50	1.4 (0.3-2.4)	12	55	1.6 (0.5-2.5)	13
Jiangsu	87	1.5 (0.8-2.1)	14	58	1.0 (0.4-1.4)	16	87	1.5 (0.8-2.1)	14
Hunan	47	1.3 (0.5-2.1)	15	41	1.2 (0.3-1.9)	15	46	1.3 (0.4-2.1)	15
Hebei	43	1.3 (0.5-1.9)	16	45	1.3 (0.4-2.1)	14	44	1.3 (0.5-2.0)	16
Guizhou	22	1.2 (0.3-1.9)	17	16	0.9 (0.1-1.5)	18	22	1.1 (0.3-1.8)	17
Sichuan	69	1.0 (0.3-1.7)	18	58	0.9 (0.1-1.5)	17	68	1.0 (0.3-1.6)	18
Guangdong	45	0.9 (0.4-1.4)	19	39	0.8 (0.2-1.2)	19	45	0.9 (0.4-1.4)	19
Qinghai	3	0.7 (0.0-1.4)	20	2	0.5 (0.0-1.0)	23	3	0.7 (0.0-1.4)	20
Chongqing	14	0.7 (0.0-1.2)	21	12	0.6 (0.0-1.1)	20	14	0.7 (0.0-1.2)	22
Gansu	11	0.7 (0.0-1.3)	22	6	0.4 (0.0-0.7)	24	11	0.7 (0.0-1.3)	21
Shanxi	12	0.6 (0.0-1.1)	23	10	0.5 (0.0-0.9)	21	11	0.6 (0.0-1.0)	24
Zhejiang	19	0.6 (0.0-1.1)	24	16	0.5 (0.0-0.9)	22	20	0.6 (0.0-1.1)	23

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Shanghai	5	0.5 (0.0-0.9)	25	3	0.3 (0.0-0.6)	26	5	0.5 (0.0-0.9)	25
Shaanxi	11	0.5 (0.1-0.8)	26	8	0.4 (0.0-0.6)	25	11	0.5 (0.1-0.8)	27
Hainan	3	0.5 (0.0-0.9)	27	2	0.3 (0.0-0.6)	27	3	0.5 (0.0-1.0)	26
Fujian	8	0.4 (0.0-0.7)	28	5	0.3 (0.0-0.5)	28	8	0.4 (0.0-0.7)	28
Yunnan	7	0.4 (0.0-0.7)	29	4	0.2 (0.0-0.4)	29	7	0.4 (0.0-0.7)	29
Henan	24	0.3 (0.0-0.5)	30	15	0.2 (0.0-0.4)	31	25	0.3 (0.0-0.6)	30
Jiangxi	5	0.2 (0.0-0.4)	31	5	0.2 (0.0-0.4)	30	5	0.2 (0.0-0.4)	31
China	1388	1.6 (1.5-1.8)		1202	1.4 (1.2-1.6)		1385	1.6 (1.5-1.8)	
Stomach cancer									
Heilongjiang	162	9.0 (5.9-12.1)	1	166	9.2 (6.4-12.0)	1	168	9.3 (6.5-12.1)	1
Jilin	100	8.6 (4.8-12.1)	2	103	8.8 (5.7-11.9)	4	103	8.8 (5.8-11.9)	2
Tianjin	34	8.6 (5.3-11.6)	3	36	9.0 (6.1-11.8)	2	35	8.8 (6.0-11.7)	3
Inner Mongolia	100	8.0 (4.1-11.9)	4	111	8.9 (5.2-12.7)	3	108	8.7 (5.0-12.4)	4
Tibet	9	5.0 (1.5-8.0)	5	11	6.3 (2.1-10.2)	5	11	6.0 (2.0-9.7)	5
Liaoning	89	4.1 (2.8-5.5)	6	103	4.8 (3.4-6.2)	7	100	4.6 (3.2-6.0)	6
Xinjiang	35	4.0 (1.3-6.4)	7	42	4.8 (1.7-7.8)	6	39	4.5 (1.6-7.3)	7
Anhui	218	3.5 (1.8-5.0)	8	274	4.4 (2.3-6.3)	8	268	4.3 (2.3-6.1)	8
Ningxia	20	3.3 (0.9-5.7)	9	25	4.2 (1.1-7.0)	9	23	3.9 (1.1-6.6)	9
Beijing	17	2.9 (1.5-4.2)	10	21	3.6 (1.9-5.2)	10	21	3.6 (1.9-5.2)	10
Shandong	222	2.9 (1.4-4.2)	11	218	2.8 (1.6-3.9)	12	211	2.7 (1.6-3.8)	12
Hubei	112	2.9 (1.2-4.3)	12	120	3.1 (1.5-4.5)	11	117	3.0 (1.4-4.4)	11
Guangxi	58	2.5 (0.6-4.1)	13	61	2.6 (0.9-4.2)	14	59	2.6 (0.8-4.0)	13
Hunan	53	2.1 (0.5-3.4)	14	54	2.1 (0.7-3.3)	15	52	2.0 (0.6-3.2)	16
Jiangsu	168	2.0 (1.1-2.9)	15	220	2.7 (1.5-3.8)	13	206	2.5 (1.4-3.5)	14
Hebei	83	1.7 (0.5-2.6)	16	98	2.0 (0.7-3.1)	16	100	2.0 (0.8-3.2)	15
Sichuan	101	1.7 (0.4-2.7)	17	103	1.7 (0.6-2.7)	18	100	1.7 (0.6-2.6)	18
Guizhou	37	1.6 (0.4-2.6)	18	46	2.0 (0.7-3.2)	17	44	1.9 (0.6-3.1)	17
Guangdong	45	1.3 (0.4-2.1)	19	49	1.4 (0.6-2.2)	19	47	1.4 (0.5-2.1)	19

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Zhejiang	34	1.0 (0.0-1.8)	20	37	1.1 (0.0-1.9)	22	36	1.0 (0.0-1.8)	23
Qinghai	6	1.0 (0.0-1.9)	21	7	1.2 (0.0-2.4)	20	7	1.2 (0.0-2.4)	20
Chongqing	15	0.9 (0.0-1.6)	22	18	1.1 (0.0-1.9)	23	18	1.0 (0.0-1.9)	22
Gansu	22	0.9 (0.0-1.6)	23	30	1.2 (0.0-2.1)	21	28	1.1 (0.0-2.0)	21
Shanxi	23	0.8 (0.0-1.4)	24	27	0.9 (0.0-1.7)	24	26	0.9 (0.0-1.6)	24
Shaanxi	21	0.7 (0.0-1.2)	25	24	0.8 (0.1-1.4)	27	23	0.8 (0.1-1.3)	26
Shanghai	9	0.6 (0.0-1.1)	26	12	0.8 (0.0-1.5)	25	11	0.8 (0.0-1.4)	27
Hainan	3	0.6 (0.0-1.2)	27	4	0.8 (0.0-1.7)	26	4	0.8 (0.0-1.6)	25
Fujian	12	0.5 (0.0-0.9)	28	16	0.7 (0.0-1.2)	28	15	0.6 (0.0-1.1)	28
Yunnan	9	0.5 (0.0-0.9)	29	12	0.6 (0.0-1.2)	29	12	0.6 (0.0-1.1)	29
Henan	36	0.4 (0.0-0.7)	30	46	0.5 (0.0-0.9)	30	42	0.5 (0.0-0.9)	30
Jiangxi	6	0.2 (0.0-0.4)	31	7	0.3 (0.0-0.6)	31	7	0.3 (0.0-0.5)	31
China	2033	2.3 (2.0-2.6)		2299	2.6 (2.3-2.9)		2237	2.5 (2.3-2.8)	
Esophageal cancer									
Tianjin	8	7.5 (4.8-10.1)	1	9	7.8 (4.9-10.6)	3	9	7.8 (5.3-10.4)	1
Jilin	12	6.7 (4.1-9.2)	2	14	7.9 (4.9-10.8)	2	13	7.4 (4.8-9.9)	2
Heilongjiang	22	6.3 (4.0-8.4)	3	28	8.0 (5.0-10.9)	1	25	7.3 (4.9-9.6)	3
Inner Mongolia	26	5.7 (2.9-8.5)	4	28	6.2 (2.7-9.3)	4	32	7.0 (4.0-10.0)	4
Tibet	1	3.9 (1.2-6.1)	5	1	3.9 (0.9-6.3)	5	2	5.1 (1.8-8.0)	5
Liaoning	19	3.4 (2.3-4.4)	6	19	3.4 (2.2-4.5)	7	22	3.9 (2.8-5.0)	6
Xinjiang	12	2.6 (0.5-4.3)	7	11	2.4 (0.6-3.9)	9	17	3.6 (1.0-5.8)	7
Anhui	106	2.6 (1.2-3.8)	8	128	3.1 (1.5-4.7)	8	139	3.4 (1.8-4.8)	8
Beijing	6	2.5 (1.3-3.7)	9	8	3.5 (1.5-5.1)	6	7	3.2 (1.7-4.6)	9
Ningxia	4	2.4 (0.5-4.0)	10	3	1.8 (0.1-3.1)	14	5	2.9 (0.6-4.9)	10
Hubei	38	2.2 (1.0-3.4)	11	37	2.1 (0.8-3.3)	10	42	2.5 (1.2-3.7)	11
Shandong	110	2.1 (1.1-3.0)	12	101	1.9 (0.9-2.8)	12	118	2.2 (1.2-3.1)	12
Guangxi	13	1.9 (0.5-3.2)	13	14	2.0 (0.4-3.4)	11	15	2.2 (0.7-3.4)	13
Jiangsu	131	1.6 (0.8-2.3)	14	113	1.4 (0.6-2.0)	16	167	2.0 (1.2-2.8)	14

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Hunan	8	1.4 (0.4-2.3)	15	8	1.4 (0.4-2.3)	15	9	1.6 (0.5-2.6)	16
Guizhou	3	1.3 (0.3-2.1)	16	3	1.1 (0.1-1.9)	18	4	1.5 (0.5-2.4)	17
Sichuan	60	1.2 (0.3-1.9)	17	58	1.2 (0.2-1.9)	17	66	1.3 (0.5-2.1)	18
Hebei	38	1.2 (0.4-1.8)	18	58	1.8 (0.5-2.9)	13	53	1.7 (0.6-2.6)	15
Guangdong	20	1.0 (0.3-1.6)	19	20	1.1 (0.3-1.7)	19	23	1.2 (0.5-1.8)	19
Qinghai	1	0.7 (0.0-1.5)	20	1	0.9 (0.0-1.7)	20	2	1.1 (0.0-2.1)	20
Chongqing	11	0.6 (0.0-1.1)	21	12	0.7 (0.0-1.3)	21	13	0.8 (0.0-1.4)	23
Zhejiang	7	0.6 (0.0-1.2)	22	7	0.7 (0.0-1.3)	22	9	0.8 (0.0-1.4)	22
Shanxi	13	0.6 (0.0-1.1)	23	12	0.6 (0.0-1.1)	23	14	0.7 (0.0-1.3)	25
Gansu	5	0.6 (0.0-1.2)	24	4	0.5 (0.0-0.9)	24	7	0.9 (0.0-1.6)	21
Shaanxi	9	0.5 (0.0-0.8)	25	8	0.4 (0.0-0.8)	26	11	0.6 (0.1-1.0)	26
Shanghai	1	0.5 (0.0-0.8)	26	1	0.4 (0.0-0.7)	28	2	0.6 (0.0-1.0)	27
Hainan	1	0.4 (0.0-0.9)	27	1	0.5 (0.0-0.9)	25	2	0.7 (0.0-1.4)	24
Fujian	6	0.4 (0.0-0.7)	28	6	0.4 (0.0-0.7)	27	8	0.5 (0.0-1.0)	28
Yunnan	1	0.3 (0.0-0.6)	29	1	0.3 (0.0-0.5)	29	1	0.5 (0.0-0.9)	29
Henan	27	0.3 (0.0-0.5)	30	22	0.2 (0.0-0.4)	30	35	0.4 (0.0-0.7)	30
Jiangxi	1	0.2 (0.0-0.4)	31	2	0.2 (0.0-0.4)	31	2	0.2 (0.0-0.4)	31
China	916	1.7 (1.5-1.9)		961	1.8 (1.6-2.0)		1086	2.0 (1.8-2.2)	
5 Minor sites									
Tianjin	51	9.8 (6.2-13.2)	1	53	10.2 (6.8-13.6)	3	55	10.4 (7.2-13.6)	2
Heilongjiang	215	8.8 (5.7-11.7)	2	280	11.4 (7.8-15.0)	1	260	10.6 (7.4-13.7)	1
Jilin	133	8.7 (5.2-12.2)	3	157	10.4 (6.6-13.8)	2	153	10.0 (6.8-13.6)	3
Inner Mongolia	93	7.6 (3.9-11.2)	4	120	9.8 (5.5-14.1)	4	119	9.8 (5.7-14.0)	4
Tibet	3	4.8 (1.3-7.9)	5	4	6.5 (1.8-10.5)	5	4	7.0 (2.3-11.4)	5
Liaoning	111	4.3 (2.9-5.7)	6	136	5.3 (3.7-6.8)	6	138	5.3 (3.8-6.9)	6
Xinjiang	18	3.4 (0.8-5.6)	7	23	4.5 (1.5-7.3)	9	27	5.2 (1.6-8.5)	7
Beijing	26	3.3 (1.7-4.8)	8	38	4.7 (2.4-6.7)	7	35	4.4 (2.3-6.2)	9
Anhui	88	3.2 (1.4-4.8)	9	126	4.6 (2.4-6.7)	8	126	4.6 (2.5-6.6)	8

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Ningxia	7	3.1 (0.5-5.3)	10	9	4.0 (1.0-6.7)	10	9	4.3 (1.2-7.1)	10
Hubei	70	2.9 (1.2-4.3)	11	81	3.3 (1.5-4.9)	11	82	3.3 (1.6-4.9)	11
Shandong	106	2.8 (1.4-4.0)	12	117	3.1 (1.7-4.3)	12	117	3.1 (1.8-4.3)	12
Guangxi	39	2.1 (0.5-3.5)	13	47	2.5 (0.7-4.1)	15	47	2.5 (0.8-4.0)	14
Jiangsu	95	2.0 (1.0-2.8)	14	122	2.5 (1.4-3.6)	14	133	2.7 (1.6-3.8)	13
Hunan	45	1.9 (0.5-3.0)	15	51	2.1 (0.6-3.4)	16	53	2.2 (0.7-3.5)	16
Sichuan	59	1.6 (0.4-2.6)	16	69	1.9 (0.5-2.9)	18	68	1.8 (0.6-2.9)	18
Guizhou	19	1.5 (0.2-2.5)	17	24	1.9 (0.4-3.1)	17	25	1.9 (0.6-3.1)	17
Hebei	43	1.5 (0.5-2.3)	18	72	2.5 (0.8-4.0)	13	66	2.3 (0.8-3.6)	15
Guangdong	39	1.1 (0.4-1.8)	19	47	1.4 (0.5-2.2)	20	47	1.4 (0.5-2.1)	19
Chongqing	12	0.9 (0.0-1.6)	20	16	1.2 (0.0-2.2)	21	16	1.2 (0.1-2.1)	22
Qinghai	1	0.9 (0.0-1.7)	21	2	1.4 (0.0-2.8)	19	2	1.3 (0.0-2.7)	20
Shanxi	12	0.8 (0.0-1.5)	22	12	0.9 (0.0-1.6)	24	13	1.0 (0.0-1.7)	24
Zhejiang	24	0.8 (0.0-1.5)	23	32	1.1 (0.0-2.0)	23	32	1.1 (0.0-1.9)	23
Gansu	8	0.8 (0.0-1.5)	24	12	1.1 (0.0-2.1)	22	13	1.3 (0.0-2.4)	21
Shaanxi	11	0.7 (0.0-1.2)	25	14	0.8 (0.1-1.5)	25	15	0.9 (0.1-1.5)	25
Shanghai	11	0.6 (0.0-1.1)	26	13	0.7 (0.0-1.3)	27	15	0.9 (0.0-1.5)	26
Fujian	5	0.4 (0.0-0.7)	27	8	0.6 (0.0-1.1)	28	8	0.7 (0.0-1.2)	28
Hainan	2	0.4 (0.0-0.8)	28	3	0.8 (0.0-1.5)	26	3	0.8 (0.0-1.5)	27
Yunnan	5	0.4 (0.0-0.8)	29	8	0.6 (0.0-1.2)	29	9	0.7 (0.0-1.3)	29
Henan	13	0.4 (0.0-0.7)	30	16	0.5 (0.0-0.8)	30	18	0.5 (0.0-0.9)	30
Jiangxi	4	0.3 (0.0-0.5)	31	4	0.3 (0.0-0.5)	31	5	0.3 (0.0-0.6)	31
China	1275	2.2 (1.9-2.5)		1604	2.8 (2.5-3.1)		1613	2.8 (2.5-3.1)	
All other cancer									
Heilongjiang	205	2.3 (1.5-3.1)	1	205	2.3 (1.6-3.0)	1	184	2.1 (1.4-2.7)	1
Tianjin	57	2.1 (1.3-2.9)	2	55	2.0 (1.3-2.7)	2	53	2.0 (1.3-2.6)	2
Jilin	143	2.0 (1.2-2.8)	3	142	2.0 (1.3-2.7)	3	130	1.8 (1.1-2.5)	3
Inner Mongolia	115	1.9 (1.0-2.8)	4	111	1.8 (0.9-2.6)	4	105	1.7 (0.9-2.5)	4

Province	Cigarette equivalents			Age at initiation of smoking			Smoking status		
	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank	SACD	PAF, % (95% CI)	Rank
Tibet	8	1.4 (0.4-2.3)	5	7	1.3 (0.3-2.1)	5	7	1.3 (0.4-2.2)	5
Xinjiang	51	1.1 (0.3-1.8)	6	42	0.9 (0.3-1.5)	6	45	1.0 (0.3-1.6)	6
Liaoning	146	0.9 (0.6-1.2)	7	142	0.9 (0.6-1.2)	7	139	0.9 (0.6-1.1)	7
Anhui	156	0.9 (0.4-1.3)	8	156	0.9 (0.4-1.3)	8	151	0.9 (0.4-1.2)	8
Beijing	42	0.8 (0.4-1.1)	9	45	0.9 (0.4-1.2)	9	41	0.8 (0.4-1.1)	9
Ningxia	9	0.7 (0.1-1.3)	10	8	0.7 (0.1-1.1)	10	8	0.7 (0.1-1.2)	10
Hubei	96	0.6 (0.3-0.9)	11	90	0.6 (0.2-0.8)	11	88	0.6 (0.3-0.8)	11
Guangxi	70	0.6 (0.1-0.9)	12	64	0.5 (0.1-0.8)	12	62	0.5 (0.2-0.8)	12
Shandong	141	0.5 (0.3-0.8)	13	126	0.5 (0.2-0.7)	13	122	0.5 (0.3-0.7)	13
Hunan	84	0.5 (0.1-0.8)	14	75	0.4 (0.1-0.7)	15	73	0.4 (0.1-0.6)	15
Jiangsu	102	0.5 (0.2-0.6)	15	96	0.4 (0.2-0.6)	14	99	0.4 (0.2-0.6)	14
Hebei	77	0.4 (0.1-0.6)	16	78	0.4 (0.1-0.6)	16	71	0.4 (0.1-0.6)	17
Guizhou	39	0.4 (0.1-0.6)	17	38	0.4 (0.1-0.6)	17	37	0.4 (0.1-0.6)	16
Guangdong	69	0.3 (0.1-0.5)	18	66	0.3 (0.1-0.5)	18	63	0.3 (0.1-0.5)	18
Sichuan	73	0.3 (0.1-0.5)	19	68	0.3 (0.1-0.5)	19	65	0.3 (0.1-0.5)	19
Gansu	17	0.3 (0.0-0.4)	20	15	0.2 (0.0-0.4)	21	16	0.2 (0.0-0.4)	20
Qinghai	3	0.2 (0.0-0.5)	21	3	0.2 (0.0-0.5)	20	2	0.2 (0.0-0.5)	21
Chongqing	19	0.2 (0.0-0.4)	22	19	0.2 (0.0-0.4)	22	18	0.2 (0.0-0.4)	22
Zhejiang	29	0.2 (0.0-0.4)	23	26	0.2 (0.0-0.3)	23	25	0.2 (0.0-0.3)	23
Hainan	4	0.2 (0.0-0.4)	24	4	0.2 (0.0-0.3)	24	4	0.2 (0.0-0.3)	24
Shaanxi	14	0.2 (0.0-0.3)	25	13	0.1 (0.0-0.2)	26	13	0.1 (0.0-0.2)	27
Shanghai	14	0.2 (0.0-0.3)	26	12	0.1 (0.0-0.3)	27	13	0.2 (0.0-0.3)	26
Shanxi	14	0.2 (0.0-0.3)	27	14	0.2 (0.0-0.3)	25	14	0.2 (0.0-0.3)	25
Yunnan	12	0.1 (0.0-0.2)	28	11	0.1 (0.0-0.2)	29	11	0.1 (0.0-0.2)	29
Fujian	10	0.1 (0.0-0.2)	29	9	0.1 (0.0-0.2)	28	10	0.1 (0.0-0.2)	28
Henan	23	0.1 (0.0-0.2)	30	21	0.1 (0.0-0.1)	30	21	0.1 (0.0-0.2)	30
Jiangxi	5	0.0 (0.0-0.1)	31	6	0.1 (0.0-0.1)	31	6	0.1 (0.0-0.1)	31
China	1851	0.5 (0.5-0.6)		1780	0.5 (0.4-0.6)		1718	0.5 (0.4-0.5)	

The results based on smoking prevalence from cigarette equivalents, age at initiation of smoking and smoking status are presented in each column. Smoking status was categorized into never, former, or current smokers. Abbreviations: SACD, smoking attributable cancer death; PAF, population attributable fractions; CI, confidence intervals; SHS, secondhand smoking.