

Table S1. Annual outcomes in the constant prevalence scenario

	Youth smoking prevalence, ages 9-17	Adult smoking prevalence, ages 18+	Person-years of cigarette smoking, all ages	SA cancers	SA CVD and diabetes hospitalizations	SA respiratory disease hospitalizations	SA deaths	SA medical costs (millions of 2017 \$US)	Productivity (millions of 2017 \$US)
1998	13.2%	23.8%	912,613	7,646	63,666	19,548	8,112	1,441.2	223,679.3
1999	13.5%	23.9%	931,386	7,731	65,993	19,663	8,434	1,470.8	226,123.7
2000	13.8%	24.0%	945,628	7,546	67,712	19,995	8,688	1,476.1	229,099.0
2001	13.7%	23.8%	947,159	8,232	68,408	21,380	8,227	1,466.8	230,898.4
2002	13.6%	24.0%	960,881	8,091	70,836	21,326	8,302	1,470.5	232,486.1
2003	13.6%	23.7%	957,454	8,154	70,657	21,331	8,600	1,501.8	234,458.4
2004	13.8%	23.6%	962,057	8,531	72,964	21,573	8,886	1,478.3	236,021.2
2005	13.3%	23.5%	963,755	8,366	73,057	22,389	9,552	1,475.6	237,467.8
2006	12.8%	23.7%	977,040	8,209	74,657	22,503	9,407	1,499.3	238,971.9
2007	12.5%	23.4%	970,814	8,791	74,040	22,354	9,253	1,503.0	240,632.4
2008	12.3%	23.7%	988,328	8,704	74,596	22,309	9,691	1,496.4	242,535.3
2009	12.8%	23.4%	989,358	8,940	75,376	22,884	9,615	1,484.7	244,195.4
2010	13.0%	23.4%	994,881	8,742	76,082	22,945	9,386	1,455.1	245,383.6
2011	13.0%	23.3%	999,708	8,966	77,690	23,529	9,499	1,474.7	246,181.4
2012	12.9%	23.5%	1,014,953	9,375	78,880	24,420	9,053	1,497.2	246,824.3
2013	13.5%	23.5%	1,022,730	9,560	81,247	23,880	10,064	1,498.8	248,169.2
2014	13.1%	23.4%	1,026,373	9,632	84,327	24,767	10,127	1,491.9	249,550.3
2015	13.1%	23.6%	1,042,003	10,021	84,600	24,397	10,279	1,524.0	250,280.4
2016	13.6%	23.5%	1,049,060	10,213	85,642	25,010	10,430	1,565.9	251,270.8
2017	13.7%	23.5%	1,061,233	10,081	86,798	25,801	10,951	1,557.2	252,858.9
<b>Total</b>			<b>19,717,413</b>	<b>175,533</b>	<b>1,507,229</b>	<b>452,004</b>	<b>186,555</b>	<b>29,829.2</b>	<b>4,807,087.6</b>

SA = Smoking-attributable. CVD = Cardiovascular disease.

**Table S2. Annual outcomes in the realized prevalence scenario**

	Youth smoking prevalence, ages 9-17	Adult smoking prevalence, ages 18+	Person-years of cigarette smoking, all ages	SA cancers	SA CVD and diabetes hospitalizations	SA respiratory disease hospitalizations	SA deaths	SA medical costs (millions of 2017 \$US)	Productivity (millions of 2017 \$US)
1998	13.2%	22.6%	870,732	7,641	63,418	19,504	8,112	1,440.2	223,680.3
1999	13.5%	21.8%	857,114	7,636	65,555	19,474	8,429	1,463.7	226,128.1
2000	13.8%	21.3%	849,032	7,496	67,186	19,750	8,618	1,460.0	229,109.7
2001	13.5%	20.3%	821,600	8,177	67,605	21,009	8,192	1,439.5	230,915.2
2002	12.7%	19.8%	804,776	7,981	69,834	20,885	8,262	1,428.6	232,511.9
2003	11.7%	19.0%	774,225	8,084	69,695	20,920	8,540	1,444.3	234,494.8
2004	10.7%	18.4%	748,438	8,366	71,827	21,142	8,751	1,409.4	236,071.0
2005	9.7%	17.9%	730,812	8,211	71,692	21,829	9,402	1,391.2	237,532.7
2006	9.0%	17.6%	719,819	7,999	73,234	21,892	9,232	1,397.7	239,049.8
2007	8.4%	17.0%	702,435	8,565	72,691	21,847	9,092	1,388.1	240,725.2
2008	7.7%	16.9%	697,265	8,498	72,890	21,650	9,449	1,366.1	242,647.6
2009	7.2%	16.3%	676,663	8,759	73,660	22,285	9,348	1,339.2	244,326.2
2010	6.7%	15.7%	651,891	8,470	74,220	22,180	9,195	1,298.4	245,528.8
2011	6.1%	15.1%	630,749	8,714	75,646	22,688	9,142	1,296.0	246,350.3
2012	5.7%	15.0%	628,911	9,048	76,836	23,423	8,811	1,292.7	247,012.5
2013	5.4%	14.7%	619,919	9,132	78,807	22,973	9,817	1,276.2	248,374.8
2014	5.1%	14.4%	610,191	9,214	81,739	23,869	9,632	1,254.0	249,782.1
2015	4.7%	14.1%	598,454	9,643	82,022	23,338	9,905	1,261.8	250,530.3
2016	4.4%	13.8%	592,548	9,777	82,935	23,983	10,035	1,274.4	251,541.2
2017	4.3%	13.5%	582,333	9,563	84,047	24,484	10,473	1,250.4	253,153.8
<b>Total</b>			<b>14,167,908</b>	<b>170,974</b>	<b>1,475,538</b>	<b>439,123</b>	<b>182,437</b>	<b>27,172.0</b>	<b>4,809,466.1</b>

SA = Smoking-attributable. CVD = Cardiovascular disease.

**Table S3. Changes in health and economic impact of cigarette smoking through reduced tobacco prevalence 1998-2017; difference between the Constant Prevalence and the Realized Prevalence Scenarios**

	Percentage point change in youth smoking prevalence, ages 9-17	Percentage point change in adult smoking prevalence, ages 18+	Person-years of cigarette smoking, all ages	SA cancers	SA CVD and diabetes hospitalizations	SA respiratory disease hospitalizations	SA deaths	SA medical costs (millions of 2017 \$US)	Productivity (millions of 2017 \$US)
1998	0.0%	-1.2%	-41,880	-5	-248	-45	0	-1.1	1.0
1999	0.0%	-2.1%	-74,272	-95	-439	-189	-5	-7.1	4.4
2000	0.0%	-2.7%	-96,595	-50	-526	-245	-70	-16.1	10.7
2001	-0.2%	-3.5%	-125,560	-55	-803	-371	-35	-27.3	16.8
2002	-0.9%	-4.1%	-156,105	-110	-1,003	-441	-40	-42.0	25.8
2003	-2.0%	-4.6%	-183,229	-70	-962	-411	-60	-57.5	36.5
2004	-3.1%	-5.2%	-213,620	-165	-1,136	-431	-135	-68.9	49.8
2005	-3.5%	-5.6%	-232,942	-155	-1,365	-560	-150	-84.4	64.9
2006	-3.8%	-6.2%	-257,221	-210	-1,423	-611	-175	-101.7	77.9
2007	-4.1%	-6.3%	-268,379	-226	-1,350	-507	-161	-114.9	92.8
2008	-4.6%	-6.8%	-291,063	-206	-1,706	-659	-242	-130.3	112.3
2009	-5.6%	-7.1%	-312,694	-181	-1,717	-599	-267	-145.5	130.8
2010	-6.3%	-7.7%	-342,990	-272	-1,862	-765	-191	-156.7	145.2
2011	-6.8%	-8.2%	-368,959	-252	-2,044	-841	-357	-178.8	168.9
2012	-7.3%	-8.5%	-386,042	-327	-2,044	-997	-242	-204.4	188.2
2013	-8.1%	-8.7%	-402,811	-429	-2,440	-908	-247	-222.5	205.6
2014	-8.1%	-9.0%	-416,181	-419	-2,587	-898	-494	-237.8	231.8
2015	-8.4%	-9.5%	-443,549	-378	-2,578	-1,060	-373	-262.2	249.9
2016	-9.1%	-9.6%	-456,511	-435	-2,707	-1,027	-395	-291.4	270.4
2017	<b>-9.4%</b>	<b>-10.0%</b>	-478,900	-519	-2,750	-1,317	-478	-306.8	294.9
<b>Total</b>			<b>-5,549,505</b>	<b>-4,560</b>	<b>-31,691</b>	<b>-12,881</b>	<b>-4,118</b>	<b>-2,657.2</b>	<b>2,378.5</b>

SA = Smoking-attributable. CVD = Cardiovascular disease.