

Appendix 1: Supplementary tables [posted as supplied by author]

Table A: Number of states with any tobacco ban, and type of ban by year from 2001-2011, and crude tobacco related mortality rate per 100,000 (types of bans are not mutually exclusive)

Year	No ban		Any ban*		Tobacco free indoors		Tobacco or smoke free outdoors†	
	Number of states	Deaths per 100,000	Number of states	Deaths per 100,000	Number of states	Deaths per 100,000	Number of states	Deaths per 100,000
2001	25	115.8	25	111.1	21	124.4	16	135.9
2002	22	122.4	28	102.7	24	111.2	19	100.7
2003	20	129.9	30	116.4	25	116.5	20	99.2
2004	18	130.4	32	103.4	27	111.5	22	96.0
2005	16	137.2	34	105.1	30	102.9	24	91.7
2006	13	126.4	37	105.2	32	107.6	26	99.9
2007	9	143.9	41	100.7	35	100.1	28	105.7
2008	6	150.1	44	109.4	38	107.9	32	104.5
2009	5	128.7	45	114.5	40	106.6	35	102.1
2010	3	114.6	47	114.2	43	107.3	38	98.4
2011	2	148.6	48	124.2	44	115.3	39	113.3
2001-2011		128.9		110.4		109.1		103.7

*All states which had any ban had a smoke-free indoors ban

† States which were tobacco free outdoors were also smoke free outdoors

Table B. The association between any state prison system smoking ban and smoking related deaths adjusted for gender, calendar year and state general population smoking related death rates (Model 1). The association between year since ban and smoking related deaths, adjusted for sex, calendar year, and state general population smoking related death rates (Model 2).**

	Incidence rate ratio	95% confidence interval
Model 1		
All smoking related causes of death		
Any ban	0.94	0.94 to 1.02
Calendar year	1.01	1.01 to 1.02
Men	1.27	1.15 to 1.38
State population smoking related death rate	1.00	1.00 to 1.00
Smoking related cancer deaths		
Any ban	1.02	0.96 to 1.10
Calendar year	1.04	1.02 to 1.05
Men	1.38	1.17 to 1.64
State population smoking related cancer death rate	1.02	1.02 to 1.02
Smoking related cardiovascular deaths		
Any ban	0.96	0.91 to 1.00
Calendar year	1.00	1.00 to 1.01
men	1.21	1.08 to 1.36
State population smoking related cardiovascular death rate	1.01	1.01 to 1.01
Smoking related pulmonary deaths		
Any ban	0.70	0.61 to 0.82
Calendar year	1.04	1.02 to 1.06
Men	1.01	0.79 to 1.30
State population smoking related pulmonary death rate	1.03	1.01 to 1.04
Model 2		
All smoking related causes of death		
Years since ban, categorized		
0	ref	
>0 and <4	0.98	0.94 to 1.02
≥4 and <9	0.98	0.94 to 1.02
≥9	0.97	0.92 to 1.02
Calendar year	1.01	1.01 to 1.02
Men	1.26	1.15 to 1.38
State population smoking related death rate	1.00	1.00 to 1.01
Smoking related cancer deaths		
Years since ban, categorized		
0	ref	
>0 and <4	0.99	0.91 to 1.08
≥4 and <9	1.00	0.92 to 1.09
≥9	0.89	0.81 to 0.98

Calendar year	1.04	1.03 to 1.06
Men	1.40	1.18 to 1.66
State population smoking related cancer death rate	1.02	1.02 to 1.02
Smoking related cardiovascular deaths		
Years since ban, categorized		
0	ref	
>0 and <4	1.01	0.95 to 1.07
≥4 and <9	1.00	0.94 to 1.05
≥9	1.06	1.00 to 1.13
Calendar year	1.00	0.99 to 1.00
Men	1.19	1.07 to 1.34
State population smoking related cardiovascular death rate	1.01	1.01 to 1.01
Smoking related pulmonary deaths		
Years since ban, categorized		
0	ref	
>0 and <4	0.72	0.60 to 0.87
≥4 and <9	0.83	0.70 to 0.99
≥9	0.67	0.55 to 0.82
Calendar year	1.05	1.02 to 1.07
Men	1.01	0.79 to 1.29
State population smoking related pulmonary death rate	1.03	1.02 to 1.04

Table C: The association between any state prison system smoking ban and other deaths (not in 19 smoking related cause categories) adjusted for sex, calendar year and state general population smoking prevalence (Model 1). The association between year since ban and other deaths, adjusted for sex, calendar year, and state general population smoking prevalence (Model 2).

	Incidence rate ratio	95% confidence interval
	Model 1	
Any ban	1.05	1.00 to 1.09
Calendar year	1.00	1.00 to 1.01
Men	1.59	1.49 to 1.70
State population prevalence of smoking	1.00	1.00 to 1.01
	Model 2	
Years since ban, categorized		
0	ref	
>0 and <4	1.08	1.04 to 1.13
≥4 and <9	1.08	1.03 to 1.12
≥9	1.03	0.98 to 1.08
Calendar year	1.00	1.00 to 1.01
Men	1.59	1.48 to 1.70
State population prevalence of smoking	1.00	1.00 to 1.01