Reducing Tobacco Use and Secondhand Smoke Exposure: Comprehensive Tobacco Control Programs Summary Evidence Table

State (Author Year)	Pages
Arizona (1 study: Lightwood'11)	2
California (18 studies: Al-Delaimy'07; Barnoy'04; Chen'03; Cowling'10; Fichtenberg'00; Gilpin'06; Lightwood'13; Marlow'07; Messer'07 Messer'10; Miller'10; Pierce'98; Pierce'05; Pierce'10; Polednak'09; Rohrbach'02; Siegel'00; Trinidad'07)	3-21
Massachusetts (9 studies: Biener'00; CDC'96; Kabir'07; Kabir'08; Marlow'12; Rigotti'02; Soldz'00; Soldz'02; Weintraub'02)	22-30
Minnesota (1 study: CDC'11)	31
New York State (2 studies: Lieberman'13; Murphy'10)	32-33
New York City (3 studies: CDC'07; Frieden'05; Kilgore'14)	34-37
Oregon (1 study: CDC'99)	38
Texas (3 studies: McAlister'04; McAlister'06; Meshack'04)	39-41
Washington (2 studies: Dilley'07; Dilley'12)	42-43
Wisconsin (1 study: Bandi'06)	44
US, overall (14 studies: Adams'12; Chattopadhyay'11; Ciecierski'11 Farrelly'03; Farrelly'08; Farrelly'13a; Farrelly'13b; Farrelly'14 Jemal'11; Levy'05; Marlow'06; Rhoads'12; Tauras'05)	45-58
Other countries (6 studies: Currie'13; Germain 2012; Launay'10; Reid'10; Schaap'08 White'08)	59-64

Arizona Studies

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Lightwood, 2011 Study design: Panel study Quality of execution: Fair	Location: Arizona, USA Program scale: State Implementation date: 1996 Intervention environment: NR Program funding: NR Program details: Reported in study: media campaigns that focuses on youth uptake of smoking; Reported in broader literature: Mass media and sponsorships Local grants for school programs, cessation, protection from secondhand smoke exposure Quitline Statewide projects and evaluation Comparison: 38 control states that did not have substantial tobacco control programs; and did not increase the price per pack of cigarettes more than \$0.50 over the duration of the study: Overall results compared to California as well	Study period: 1976-2004 Study population: Smokers in Arizona	Annual per capita cigarette consumption (packs sold per capita per year) Cumulative per capita tobacco control expenditure compared between AZ and control states; the differences between the funding levels used as independent variable;	N/A	in cigarette consumption in association with increases in funding for comprehensive tobacco control programs	control	There is a strong association between per capita program expenditure and per capita cigarette sales, with a reduction of annual per capita cigarette consumption with the initiation of the comprehensive tobacco control program in AZ.

California Studies

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Al-Delaimy, 2007 Study design: Time series with concurrent comparison group, interval Quality of execution: Good No description of study population	Location: California, US Program scale: State Implementation date: 1989-1991 Intervention environment: Tobacco excise tax in 1989; smoking ban in workplaces in 1994 Program funding: Funded through a dedicated increase in tobacco excise tax; during 1990s, funded at \$3.67 per person per year Program details: Community programs, mass-media counter- advertising campaign; smoking cessation services; school and community initiatives against smoking Comparison: NY/NJ and 6 tobacco growing states: KY, TN, NC, SC, VA, GA	Non-Hispanic whites only; 20-64 years of age; daily smokers		1992: 20-34 yrs old CA 16.7 NY/NJ 19.0 TGS 20.8 35-49 yrs old CA 20.8 NY/NJ 21.3 TGS 23.8 50-64 yrs old CA 22.3 NY/NJ 21.0 TGS 22.4 Comparisons Age NY/NJ 20-34 -0.25 35-49 -0.22* 50-64 -0.23 Age TGS 20-34 -0.32 35-49 -0.19* 50-64 -0.09*	19.2 21.5 California Age CA 20-34 -0.19 35-49 -0.41 50-64 -0.42 *Statistically significant	Relative Change RR -12.0% 0.880 -14.2% 0.858 -15.4% 0.808 -9.4% 0.906 -7.6% 0.924 -17.0% 0.830 -8.6% 0.914 -4.0% 0.960	Larger decreases in consumption were observed in California compared to NY/NJ and TGS in all age groups, except 20-34 year-olds.

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%Cl]	Summary
Author, Year: Barnoya, 2004 Study design: Interrupted time series with concurrent comparison group Quality of execution: Fair No description of study population Potential bias due to lag between smoking and onset of lung cancer, and smoking cessation and decreases in lung cancer incidence (follow up only extends 10 years after the implementation of the program)	Location: California (CA), US Program scale: State Implementation date: 1989-91 Intervention environment: Development of smoke-free policies Tax increases in CA Program funding: NR Program details: Mass media campaign, school programs, and direct cessation Comparison: Compared across 9 SEER sites; SFO, CA compared to 8 other SEER sites from geographical areas without a tobacco control program; Seer sites: States of Connecticut, Hawaii, Iowa, New Mexico, and Utah; Metropolitan areas of Atlanta, Detroit (Michigan), and San Francisco-Oakland (SFO), (CA) Examined cancers not caused by smoking as control For consumption, compared CA to U.S (not including CA)	Study period: 1975-1999 (CA tobacco control program 1989-1999) Study population: San Francisco- Oakland area for cancer, CA population for cigarette consumption	Age-adjusted lung cancer incidence rates [(cases/ 100,000/ year)/year] Cigarette consumption over time (per capita cigarette sales)			Coefficient: CA: -	Only CA (San Francisco- Oakland area) showed a statistically significant decrease in age adjusted incidence rate among the 9 SEER site locations for lung cancer, which corresponds to 11,000 cases avoided state- wide in 10 years.

Study Info		Population Characteristics	Effect measure	-	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Chen 2003	Location: California (CA), US Program scale: State	Study period: June 1990-1999	Initiation (preventing experimentati	Males, never smokers, 1990:	Males, Never smoker, 1999: 69%		Cohort effect was observed; for males born since
Study design: Interrupted time series	Intervention environment:	17 years from random digit- dialing	on in adolescents) by measuring never smokers	60%		Annual change: 0.87 pct pts per year	1980 and for females born since 1978, there were steady
Quality of execution: Fair	Proposition 99—the Tobacco Tax and Health Promotion Act of 1988	and Interviews	Never smoker: a respondent who has never	never	Females, never	Absolute change: 4 pct pts	increase in prevalence of never smokers.
Lack of program description Interpolations for	Program funding: NR Program details: NR		tried smoking, not even a few puffs of a	1990:	smokers, 1999: 70%	Annual change: 0.29 pct pts per year	
mid-year proportions of never smokers by age for the years 1990–1993	Comparison: None		cigarette			Jou!	
Difficulty in identifying the full APC model							

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year:	Location: California	Study period:	Smoking-	1979	2005	Relative %	The smoking-
Cowling, 2010		1979-2005	attributable	Overall	Overall	change	attributable
	Program scale: State		cancer	CA	CA		cancer mortality
Study design:		Study population:	mortality rate	126.2	93.8	-25.7%	rate in California
Interrupted time-	Implementation date: 1989-1991	Individuals with	per 100,000	Rest of US	Rest of US		began to decline
series with		death certificates in	due to the 10	129.4	117.9	-8.9%	7 years prior to
concurrent	Intervention environment:	the NCHS, who had	cancers that			Adjusted for US	the US trend
comparison	Smoke-free policies; tax increases	died of cancer (10	are caused by			-18.4%	(1984 vs 1991).
		specific types of	smoking				The decline was
Quality of	Program funding: Proposition 99	smoking related		Males	Males		more rapid in
execution:	raised excise tax on cigarette pack	cancers) and were		СА	CA		California both for
Fair	by \$0.25	aged 35+ years		193.6	126.2	-34.8%	the combined
				Rest of US	Rest of US		data and among
No or limited	Program details: NR; social,	Included types of		209.1	164.9	-21.1%	women and men
description of	regulatory, and environmental	cancer: lip/oral				Adjusted for US	over the study
study population	strategies	cavity/pharynx,				-17.3%	period; after the
and program		esophagus, stomach,					California
	Comparison: California compared	pancreas, larynx,		Females	Females		Program was
Missing data from	to U.S.	trachea/ lung/		СА	CA		implemented, the
certain years		bronchus, cervix		58.1	61.4	+4.6%	rate declined
5		uteri (for women		Rest of US	Rest of US		faster.
Multiple limitations		only), kidney/ renal		49.8	70.9	+42.4%	
in data analysis		pelvis, urinary				Adjusted for US	
		bladder and acute				-26.5%	
		myeloid leukemia					

Comprehensive Tobacco Control Programs: Effectiveness Review

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Fichtenberg, 2000 Study design: Interrupted time	Location: California Program scale: State Implementation date: 89-91	Study period: 1980-1997 Study population: California residents	Per capita cigarette consumption: cigarette sales			Annual sales, CA vs. U.S.: -2.72 ±0.65 packs per year; p=0.001	Per capita cigarette consumption and heart disease mortality showed
series with concurrent comparison group	Intervention environment: Smoke-free policies; tax increases		Mortality: age- adjusted death rates for			Mortality, CA vs. U.S.: -2.93 ±0.53	larger decreases in California vs. the rest of the US following
execution: Good	Program funding: Through excise tax on cigarettes Program details: Community		tobacco- related cardiovascular diseases			deaths per year per 100,000 population per year;	implementation of the California Tobacco Control Program.
No population description;	programs promoting policies to foster a smoke-free society; aggressive media campaign					p<0.001	i rogram.
	Comparison: California compared to U.S.						

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Gilpin, 2006	Location: CA, USA	Study period: 1990, 1996, 2002	Prevalence of daily smoking:	1990: Overall: 15.9%	1999: Overall: 13.0%	Absolute change: -2.9 pct pts	Daily smoking in CA declined after
Study design:	Program scale: State	[Analysis: Period 1 (1990–1996) and	Overall				implementation of comprehensive
Interrupted time series	Implementation date: 1989-1991	Period 2 (1996– 2002)]	18-24 years	YA: 13.7%	YA: 13.0%	Absolute change: -0.7 pp	program from 1990 to 1999.
	Intervention environment:						
Quality of	Smoking ban in workplaces since	Study population:	Moderate-to-	Moderate to	Moderate to	Absolute change:	Both moderate
execution: Fair	1995	Residents of CA (Age 18+)	heavy daily smokers:	heavy daily: 10.3%	heavy daily: 7.4%(95%CI:	-2.9 pp; significant	and heavy smoking declined
Limited program description	Program funding: NR	selection probability higher for anyone	>= 15 cig/ day	(95%CI:+- 0.4)	+-0.3)		after program was in place.
	Program details: Goal to	who smoked in the	· · .,	/			
Self-reported data	discourage youth smoking initiation,	previous 5 years	Heavy	Heavy daily:	Heavy daily:	Absolute change:	Per capita
of cigarette	encourage adult smokers to quit,		smokers:	3.4%(95%CI:	1.9%(95%CI:	-1.5 pp;	cigarette
consumption 30-	and protect nonsmokers from SHS		>= 25 cig/	+-0.2)	+-0.1)	significant	consumption in
35% lower than			day	-	,		CA showed a
sales data	Media messages and local effort to						reduction with
	focus attention on issue of SHS		Daily	CA 1990:24.5	CA 2002:16.5	Relative change:	program
Definition change			consumption:			-32.7%;	exposure.
between smokers	Comparison: None		packs per			significant	
in 1990 and			month per				Cigarette sales
1996/2002.			smoker				per capita
(May captures							consumption in
more smokers			Consumption:	CA 1990: 8.2	CA 2002: 4.1	Relative Change:	CA showed a
who admit to			cigarette sales			-50.0%	reduction with
some-day			packs per				program
smoking)			month per				exposure.
			person				
			a a <i>i</i>				Ever smokers
			Cessation: %	CA 1990:	CA 2002:	Absolute change:	who reported not
			ever smokers	56.8%	59.8%	3.0 pp;	smoking
			not smoking			significant	increased during
			at time of				implementation
			survey				of the program
							from 1990
							to1999
Continue on next							
page							
page						1	

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%Cl]	Summary
Author, Year: Gilpin, 2006, Continued			Disparities: Daily smoking prevalence	African American, 1990: 22.9%	African American, 1999: 13.6%	Absolute change: -9.3pp; significant	All race ethnicity groups showed a drop in prevalence with
			race/ ethnicity	Non-Hispanic White, 1990: 18.3%	Non-Hispanic White, 1999: 15.3%	Absolute change: -3.0pp; significant	the largest among the African American
				Asian/Pacific Is., 1990: 11.7%	Asian/Pacific Is.,1999: 9.2%	Absolute change: -2.5pp	cohort
				Hispanic, 1990: 10.8%	Hispanic, 1999: 8.7%	Absolute change: -2.1pp	
			Disparities: Daily smoking prevalence,	Less than HS, 1990: 18.3%	Less than HS, 1999: 14.9%	Absolute change: -3.4pp; sig.	
			adults stratified by education/SES	HS grad, 1990: 19.3%	HS grad, 1999: 17.6%	Absolute change: -1.7pp;	
				Some college, 1990: 16.6%	Some college, 1999: 13.9%	Absolute change: -2.7pp; sig	
				College grad, 1990 : 9.6%	College grad, 1999: 6.4%	Absolute change: -3.2pp; sig	
			Disparities: Daily consumption, packs per	No college, 1990: 24.3 packs	No college, 1999: 17.8 packs	Relative change:- 36.5% (-6.5 packs); sig	
			month per smoker by Education/SES	Some college, 1990: 24.8 packs	Some college, 1990: 14.8 packs	Relative change:- 67.6% (-10 packs); sig	
			Disparities: cessation (% quit ratio)	No college, 1990: 52.6%	No college, 2002: 54.0%	Absolute change: 1.4pp	
			stratified by Education/ SES	Some college, 1990: 62.1%	Some college, 2002: 65.2%	Absolute change: 3.1pp; significant	

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Lightwood, 2013 Study design: Panel Quality of execution: Fair	 Location: CA, USA Program scale: State Implementation date: 1989-91 Intervention environment: Increase in excise tax Program funding: Funded with cigarettes excise tax Program details: Comprehensive program designed to change social norms to reinforce non-smoking norm; indirectly influence current and potential future tobacco users by creating a social and legal climate in which tobacco becomes less desirable, acceptable, and accessible; Media: 3 themes (tobacco industry lies, nicotine is addictive; SHS kills); Promote smoke-free environments; Comparison: CA compared to an aggregate population from 38 states that did not have substantial state tobacco control programs or cigarette tax increases of more than \$0.50 before 2000; 	Study period: 1985-2008 with 24 annual observations Study population: Smoking population in CA and control states	Prevalence: adult smoking prevalence Consumption: per capita pack sales			Prevalence: holding all other factors constant, additional dollar in cumulative per capita funding in CA reduced CA smoking prevalence by 0.0497 pct pts, p<0.01; Consumption: holding all other factors constant, additional dollar in cumulative per capita funding in CA reduced CA cigarette consumption per smoker by 1.39 packs/year (SE 0.132; P<0.01)	Reductions in prevalence, cigarette consumption per smoker and per capita healthcare expenditure attributable to the Program increased steadily beginning in FY 1992

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%Cl]	Summary
Author, Year: Marlow, 2007 Study design: Interrupted time series with concurrent comparison Quality of execution: Fair	Location: CA Program scale: State Implementation date: 89-91 Intervention environment: CA Tobacco Tax and Health Promotion Act of 1988 (Proposition 99), increased the state surtax on cigarettes by 25 cents per pack Program funding: \$2 billion has been spent in CA on tobacco control during 1989-2002, or roughly \$62 per capita during this period. Total spending on media campaigns was \$377,570,000 during 1989- 2002. Real per capita spending on media expenditures averaged \$0.39 during 1975-2003, with a range of \$0.00- 1.41. Real total tobacco-control spending per capita averaged \$2.29 1975-2002. Real total tobacco-control spending per capita averaged \$4.59, and real media campaign spending per capita averaged \$0.79 for 1989-2002 Program details: NR Comparison: Time series within CA and outside CA (US)	Study period: Media 1989-2003, Overall 1975-2002 Expenditures 1989- 2002 Study population: Smokers in CA (who purchased cigarettes)	Consumption (per capita cigarette consumption): Cigarette sales in association with per capita tobacco control spending			Sales gap between the US and California estimated to increase by 0.11 to 0.18 cigarette packs per capita (~2 to 4 cigarettes per capita) for each \$1 increase in per capita tobacco- control spending (only if price and smoking bans included in the model)	Tobacco-control spending exerts a statistically significant influence on the gap between consumption in the United States and California only in equations that include cigarette price and smoking bans

Study Info	Intervention Characteristics	Population Characteristics		Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year:	Location: CA, US	Study period:	Cessation:	20-34 year	20-34 year	Absolute change:	US smoking
Messer, 2007		1992-2002	continuous	olds	olds	CA vs. US:	cessation
	Program scale: State		abstinence for	(%quit/year)	(%quit/year)	0.9 pct pts	increased from
Study design:		Study population:	over 1 year	US 3.2	CA 4.1	CA vs. NY/NJ:	2.7% per year to
Time series with	Implementation date: 89-91	TUS-CPS surveyed	(%quit/year)	NY/NJ 3.7		0.4 pct pts	3.4% per year
concurrent		nationally		TGS 2.8		CA vs TGS:	from 80s to 90s
comparison	Intervention environment:	representative				1.3 pct pts	the largest
groups	Tobacco excise tax; Statewide ban	population sample					increase for
	on smoking in workplace in 1994/5	every 4 months;		35-49 year	35-49 year	CA vs. US:	smokers <35
Quality of		>=15 years		olds	olds	0.6 pct pts	years
execution:	Program funding: tobacco excise			(%quit/year)	(%quit/year)	CA vs. NY/NJ:	
Good	tax increase in 1989 to support the			US 3.2	CA 3.8	0.2 pct pts	CA
	program; during 1990s, \$3.67 per	Population		N/N 3.6		CA vs TGS:	comprehensive
No description of	person per year	characteristics not		TGS 2.8		1.0 pct pts	program
the study		reported (only NHW					increased
population	Program details: Community	analyzed)		50-64 year	50-64 year	CA vs. US:	cessation rate of
	programs for secondhand smoke			olds	olds	0 pct pts	20-34 age group
	exposure; media campaign; smoking			(%quit/year)	(%quit/year)	CA vs. NY/NJ:	
	cessation services; school and			US 4.5	CA 4.5	-0.2pp	
	community initiatives against			N/N 4.7		CA vs TGS:	
	smoking			TGS 4.2		0.3pp	
	Comparison: CA;						
	NY/NJ: excise tax similar level but						
	no comprehensive program						
	Tobacco growing states (TGS): KY,						
	TN, NC, SC, VA, GA; no excise tax,						
	no program						

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%Cl]	Summary
Author, Year: Messer, 2010 Study design:	Location: California Program scale: State	Study period: 1990-2005; survey conducted every 3- years (90, 93, 96,	Prevalence: % ever smokers	Females: 12-14yrs old in 1990: 17.4% (95%	12-14yrs old in 2005: 1.4% (95%	Absolute change: -16 pct pts	Smoking initiation was stable among those who were 9yrs or older in
Interrupted time- series	Implementation date: 1989-1991 Intervention environment: NR	99, 02, and 05) Study population:		CI: 13.8%, 20.9%)	Cl: 2.7%, 0.2%)		1990, start of CA program; initiation
Quality of	The vention environment. NR	All adolescents from		15-17yrs old	15-17yrs old	Absolute change:	trajectories
execution: Good No description of	Program funding: NR Program details: NR; evaluation every 3 years (a population-level	surveys, and a stratified random sample of adults that responded to		in 1993: 44% (95%CI: 41%, 48%)	in 2005: 10% (95%CI: 6.7%, 14%)	-34 pct pts	changed with children in 82/84 birth cohort, who were 6 to 8yrs at
comprehensive program; limited description of study population	survey of tobacco use sponsored by the California Program) Comparison: Different age cohorts over time, but all within California	extended survey; a random sample of adolescents was interviewed in 1999; analysis limited to		Males: 12-14yrs old in 1990: 13.5% (95% CI: 10.6%,	12-14yrs old in 2005: 2.8% (95% CI: 5.2%,	Absolute change: -10.7 pct pts	start of CA program; Experimentation at age 12-14
		adolescents and young adults aged 12-26, and only non- Hispanic whites; sample sizes grouped by six 3-yr birth cohorts		16.5%) 15-17yrs old in 1993: 45% (95%CI: 40%, 50%)	0.4%) 15-17yrs old in 2005: 11% (95%CI: 6.7%, 15%)	Absolute change: -34 pct pts	declined significantly with each subsequent birth cohort; Odds of becoming an ever smoker from age 12 to
			Initiation: Odds of becoming an ever smoker from ages 12- 14 years to	Females: Adolescents born before 1985 Males:	Adolescents females born after 1985	OR: 0.74; 95%CI: 0.53, 0.97	14 years to age 15 to17 years declined for both female and male adolescents;
			15-17 years	Adolescents born before 1982	Adolescents born after 1982	OR: 0.70; 95%CI: 0.57, 0.85	Odds of new smoking experimentation from age 15 to 17 years to age 18 to 20 years were stable across the birth cohorts studied

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Miller, 2010 Study design: Time-series with concurrent comparison group Quality of execution: Eair	Location: California Program scale: State Implementation date: 1989-91 Intervention environment: Tobacco tax increase in 1989 of \$0.25 Smoke-free policies	Study period: 1992/3, 1995/6, 1998/9, and 2001/2 Study population: Male respondents to surveys from 1981 to 1999; Tobacco Use Supplement to the Current Population	Smoking cessation rates: weighted number of long-time quitters (at least 6m abstinence) who quit smoking in a	1989 20-34 CA: 2.5% ROC: 2.0% 35-44 CA: 3.5% ROC: 2.5%	1999 6.0% 3.7% 3.1% 2.8%	Absolute change: 3.5pp 1.7pp CA vs. ROC: 1.8 -0.4pp 0.3pp CA vs. ROC: -0.7	The young adult group (20-34) had the highest increase in cessation rates and was most responsive to the California Program in cessation, especially after
Fair No description of study population No raw data provided; all data points estimated from graphs	 Program funding: Funded by part of funds from tax increase on cigarettes; \$100 million annual budget in the beginning; spent ~\$1.2bil in first decade Program details: Changing social norms to make tobacco use less desirable, less acceptable and less 	Survey (TUS-CPS); California Tobacco Survey (CTS);	given year divided by weighted number of respondents who were current smokers in the beginning of that year	45-54 CA: 3.5% ROC: 3.5% 55+ CA: 5.8% ROC: 5.0%	4.1% 3.1% 5.8% 4.4%	0.6pp -0.4pp CA vs. ROC: 1.0 Opp -0.6pp CA vs. ROC: 0.6	Initiation rates for males in CA were lower than those for other states, especially for the 16-18 group
	accessible State-wide media campaign; community-based interventions; school based prevention programs Comparison: CA compared to rest of US (ROC);		Smoking initiation rates: weighted number of respondents who started smoking in a given year divided by weighted number of non-smokers in the beginning of that year	1989 11-15 CA: 1.9% ROC: 2.2% 16-18 CA: 4.5% ROC: 6.5% 19-22 CA: 2.2% ROC: 3.0%	1999 1.3% 2.1% 4.0% 5.8% 1.1% 1.9%	-0.6pp -0.1pp CA vs. ROC: -0.5 -0.5pp -0.7pp CA vs. ROC: 0.2 -1.1pp -1.1pp CA vs. ROC: 0.0	

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year:	Location: California	Study period:	Smoking	Prevalence			Start of CA
Pierce, 1998		Cigarette	prevalence:	1989	1996	Absolute change:	program was
	Program scale: State	consumption: data	adult ≥ 100	CA: 23.3%	18.0%	-5.3 pp	associated with
Study design:		from Feb 83 to Mar	cigarettes	ROC: 26.2%	22.4%	-3.8 pp	50% more rapid
Interrupted time series with	Implementation date: 89-91	97;	lifetime, and currently			DOD -1.5 pp	rate of decline in per capita
concurrent	Intervention environment:	Smoking prevalence	smoking				consumption and
comparison group	Tobacco tax increase, smoke-free	data from 1978-				Absolute diff:	36% increase in
	policy	1997	Annual change	Before 1989:	Before 1989:	Before 1989:	rate of decline in
Quality of			(pct. pts.) in	ROC: -0.77	CA: -0.74	0.03 pct pts; NS	prevalence; both
execution:	Program funding: From tax		adult smoking				unique to CA
Fair	increase; funds through Health	Study population:	prevalence	1989-1993:	1989-1993	1989-1993	
	,	Households		ROC: -0.57	CA: -1.06	-0.49 pct pts;	As program went
No description of		interviewed by				p<0.05	on, decline in
study population		various surveys;		1994-1996:	1994-1996:	1994-1996	consumption
		interviewed adults,		ROC: -0.28	CA: 0.01	0.29 pct pts;	slowed
All survey results		ages 18+;			p<0.001	p<0.001	significantly,
combined to		consumption					while decline in
produce one	93-4, annual average funding	calculated from		Pre-1989	1994-1996	Rel. % change	smoking
estimate even	\$53.0mil, or \$2.08 per capita	Tobacco Institute	cigarette	CA: 9.7	6.0	-22.4%	prevalence
though surveys		reports	sales: average	ROC: 12.5	10.5	-42.9%	halted; from '94
differ in sample	Program details: 1989 ballot		#of packs sold			CA vs. US:	to '96, CA
sizes, sampling	initiative specified: funding for mass		per adult per			-26.4%	smokers might be
methods	media anti-tobacco campaigns, local		month				reducing the
	health agencies to provide technical						amount they
	support and monitor adherence to		Annual change		Before 1989	Absolute diff:	smoke rather
	antismoking laws, community-based		in per capita	ROC: -0.36	CA: -0.42	-0.06; p=0.01	than quitting
	interventions selected by a		pack sales;				
	competitive grants process, and		packs per	1989-1993	1989-1993		
	enhancement of school-based		capita per	ROC: -0.42	CA: -0.64	-0.22; p=0.001	
	prevention programs, and program		year				
	evaluation			1994-1996	1994-1996		
				ROC: 0.04	CA: -0.17	-0.21; p=0.001	
	Comparison: CA compared to the rest of the US (ROC)						

Study Info		Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%Cl]	Summary
Author, Year:	Location: California	Study period: CTS:	Adolescent	1990	2002	Absolute change:	CA adolescents
Pierce, 2005	Due anno 19 Chata	1990-2002 (90, 92,	smoking	9.0%	5.0%	-4.0 pp	and young adults
Ctudy decign.	Program scale: State	every 3 years from 93 to 02);	prevalence: current				showed decreased in
Study design: Interrupted time	Implementation date: 89-91						smoking
series with		CPS-TUS: Sept/Jan/ May in 92/3, 95/6,	smokers, ages 12-17;				prevalence
concurrent		and 98/9, and Jun/	smoked in				following the
comparison group	increases, smoke-free policies,	Sept/Jan in 01/2	past 30 days				implementation
companson group	minors' access policies		past 50 days				of the California
Quality of		Study population:	Young adult	1992/1993	2001/2001	Absolute change:	Program;
execution:	Program funding: Part of a \$0.25	CTS: interviewed 12-	smoking	California	California		smoking
Fair	increase in cigarette excise tax in 89	24 year olds	prevalence:	17.9%	15.4%	-2.5 pp	prevalence
	used to fund program; from 1990-			Rest of US	Rest of US		among California
No description of	2002, average annual per capita	CPS-TUS:	smokers, ages	22.4%	22.5%	0.1 pp	young adults
population	spending: just under \$3	continuous survey	18-24;				declined more
		with 56,000	smoked at			DOD: -2.6 pp	than their
Completion rate		households per	least 100				counterparts in
below 80%		month; national,	cigarettes, and				the rest of the US
(~60% or higher;		non-institutionalized	smoking every				
lowest one from	tobacco industry marketing	civilian population,	day or some				
2002 at 58.8%)	strategy; media program;	ages 15 and older;	days now				
		for this study, only					
	program; evaluation	considered self-					
	Comparison, For young adulta CA	reported smoking					
		status					
	tor other outcomes, time series data						
	compared to rest of the country; for other outcomes, time series data						

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Pierce, 2010 Study design: Interrupted time- series with concurrent comparison group Quality of execution: Fair No description of study population Low participation rate for BRFSS survey (35%)	Location: California Program scale: State Implementation date: 1989-91 Intervention environment: Local and state smoke-free policies; excise tax increase; implemented electronically enhanced cigarette tax stamp to facilitate monitoring and reduce tax evasion; licensing of tobacco retailers throughout the state and increased the number of inspectors Program funding: NR Program details: NR Comparison: State program compared to national trend	Study period: 1960-2002 Study population: Prevalence/ consumption (cigarette sales): Adult population (18+); Mortality: Adult population (35+) 1965- 2004: 24 National Health Interview Surveys with annual household sample sizes of 35,000 to 45,000; from 1992- 2007: 6 Tobacco Use Supplements to the Current Population Survey with monthly sample sizes of ~70,000 to 80,000 From 1990- 2008: 19 Behavioral Risk Factor Surveillance System surveys	Per capita taxed cigarette sales; differences between sales trend lines for CA and US Mortality rates due to lung cancer: age adjusted deaths per 100,000 persons per year	1970s CA 76.3 Rest of US 71.5 1987, CA, peak: 108.6 1993, rest of US, peak: 116.8	From 1970 to 1988, change in sales in CA faster than change in sales in US: gap grew by 1.15 pct pts per year; From 1989- 2002, change in sales in CA declined even faster than change in sales in US: gap grew by 2.06 pct pts per year; From 2002- 2008: slight decrease in this gap 2007 77.1 101.7 2007 77.1	and rest of US grew faster after implementation of comprehensive program; Daily consumption (from surveys) and cigarette sales data (from sales tax) closely	Consumption for both CA and U.S. showed substantial decreases over the study period; decline in CA was faster than rest of U.S. for the first 14 years after program implementation, consumption in CA declined faster than the rest of the U.S.; this gap was narrowed slightly over the next 7 years Lung cancer mortality is trending lower in CA and this trend is expected to continue for the next decade.

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Polednak, 2009 Study design: Interrupted time- series with concurrent comparison group Quality of execution: Fair No description of study population; limited description of comprehensive program Sampling frame not well described	Location: California Program scale: State Implementation date: -9189 Intervention environment: Several increases in tax; last reported tax increase in 1999 Program funding: Average funding of \$3.67 per capita per year Program details: NR Comparison: California compared to: rest of U.S. (minus CA only), rest of U.S. (minus CA, NY, NJ, and 6 tobacco-growing states), New York and New Jersey (combined; high cigarette excise taxes but no comprehensive program), and tobacco growing states (TGS: GA, KY, NC, SC, TN, VA; low cigarette taxes and no state tobacco-control program)	Study period: 1990-2004 Study population: Age 20+ mortality rates due to tobacco-related cardiovascular diseases or lung- bronchus cancer	Age- standardized cardiovascular deaths per 100,000 persons per year Age- standardized lung-bronchus cancer deaths per 100,000 persons per year	Not CA: 22.3 NY-NJ: 22.1 South: 27.5 45-64: CA: 217.4 Not CA: 251.2 NY-NJ: 247.8 South: 289.7 45-64: CA: 2566.9 Not CA: 2605.6 NY-NJ: 2791.7 South: 2747.1 20-44yrs CA: 2.6 Not CA: 3.5 NY-NJ: 3.9 South: 3.3 1990, 45-64: CA: 77.2 Not CA: 91.5 NY-NJ: 82.7 South: 107.1 1990, 45-64: CA: 286.5	Not CA: 20.7 NY-NJ: 14.6 South: 26.1 45-64: CA: 143.3 Not CA: 169.5 NY-NJ: 143.1 South: 201 45-64: CA: 1738.5 Not CA: 1788.6 NY-NJ: 1870.5 South: 1892 20-44yrs CA: 1.4 Not CA: 2.7 NY-NJ: 2.3 South: 2.5 2004, 45-64: CA: 41.4 Not CA: 62.8 NY-NJ: 54.1 South: 74.9 2004, 45-64: CA: 258.9	Rel. % change: -18.7% -7.2% -33.9% -5.1% Rel. % change: -34.1% -32.5% -42.3% -30.6% Rel. % change: -32.3% -31.4% -33.0% -31.4% -33.0% -31.1% Rel. % change: -46.2% -22.9% -41.0% -24.2% Rel. % change: -46.4% -31.4% -34.6% -30.1% Rel. % change: -9.6% 4.9% -6.3% 8.9%	In general, states with stronger tobacco control efforts showed larger reductions in cardiovascular and lung cancer mortality.

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Rohrbach, 2002 Study design: Time series, interval Quality of execution: Fair Exposure based self-report Study design makes interpreting results difficult	Implementation date: 89-91 Intervention environment: Tax, Smoke free policies, minors' access laws Program funding: From increased tax on tobacco products, Proposition 99	Study period: 1996-1998 Study population: 18+ adults in California, who spoke English or Spanish and live in the selected counties for 6+ months,	Adult smoking prevalence in association with program exposure; Smoke-free households: home smoking bans in association with program exposure; Program exposure: self-reported recall of exposure to various program components,	baseline	effect		Linear regression models showed that self-reported multicomponent exposure was: 1. Significantly associated with reductions in prevalence of adult smoking (p<0.05); 2. Significantly associated with increases in smoke-free homes (p<0.05) 3. Not associated with reductions in smoking prevalence among 10 th graders (p<0.05);
			aggregated at the county level for analysis				

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%Cl]	Summary
Author, Year: Siegel, 2000 Study design: Interrupted time series with concurrent comparison Quality of execution: Good No description of program or population	Location: CA, USA Program scale: State Implementation date: 89-91 Intervention environment: Increase in state cigarette excise tax (Proposition 99) Program funding: NR Program details: NR Comparison: Compared to national data excluding CA	Study period: 1978–1980, 1983, 1985, 1987, 1988, and 1990–1994 Study population: Adults (18+ years old) of CA, selected from the National health interview Survey and the BRFSS	Smoking prevalence, 18+, annual change Cessation, 18+, annual change (CA vs US)	1985-1990: US: -0.93* (-1.13, -0.73) 1990-1994: US: -0.05* (-0.34, 0.24) 1978-1985: US: 0.73 pct pts (0.22, 1.24) 1985-1990: US: 1.04 pct pts (0.62, 1.46) 1990-1994: US: 0.15 (-0.47, 0.7) *significant difference (p<0.05) between estimated rate	1990-1994: CA: -0.39* (-0.76, -0.03) 1978-1985: CA: 0.73 pct pts (0.22, 1.24) 1985-1990: CA: 1.36 pct pts (0.74, 1.97) 1990-1994: CA: 0.18 pct pts (-0.8, 1.15) *significant difference (p<0.05)	1978-1985: CA vs. US: -0.1 pct pts per year 1985-1990: CA vs. US: -0.29 pct pts per year 1990-1994: CA vs. US: -0.34 pct pts per year 1978-1985: CA vs. US: 0 pct pts per year 1985-1990: CA vs. US: 0.32 pct pts per year 1990-1994: CA vs. US: 0.03 pct pts per year	Smoking prevalence declined at a slower pace from 90 to 94 compared to earlier years, in both CA and U.S., but decline was greater in CA than in U.S.

Study Info In		Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%Cl]	Summary
Trinidad, 2007 Study design: Time series with concurrent comparison group, interval Quality of execution: Good No description of program Con No description of program Con No Con No Con No Con Con Con Con Con Con Con Co	<pre>pcation: California rogram scale: State nplementation date: 89-91 ntervention environment: obacco tax, smoke-free policies rogram funding: \$3 per capita in the s rogram details: NR omparison: CA; (+ NJ: combined population milar to CA (neither with omprehensive program in 90s, but we similar cig. taxes); obacco growing states (TGS): 6 ates with >\$100 mil/year in bacco-related agriculture tivities; KY, TN, NC, SC, VA, GA; gether with population slightly rger than either CA or NYC+NJ</pre>	Study period: Months of Sept, Jan,	Prevalence: daily and occasional smokers	1992/1993 AA CA: 28.4% NY/NJ: 6.3% TGS: 29.7% NHW CA: 23.7% NY/NJ: 25.4% TGS: 31.0%	2001/2002 20.7% 21.1% 21.9% 18.7%		Sustained and uniform decline in adjusted odds of African American adult daily smoking, by 3% per year in the decade from 1992-2002, across state groups; In each state group, rates of daily smoking among African Americans are substantially less than those for non-Hispanic whites of similar age, education and income status; For African Americans, peak daily smoking age moved from 35- 40 to 45-50, without significant change in occasional smokers; indicating decreasing initiation among African

MA studies

Study Info	Intervention Characteristics	Population Characteristics	Effect measure		Reported effect	Value used in summary [95%CI]	Summary
of sampling methods; All data from state-wide or nation-wide regular repeated	Location: MA, US Program scale: State Implementation date: 93-94 Intervention environment: 1992, 25 cents per pack of cigarettes to fund the tobacco control program; implemented in 1993 Program funding: Program funding stream: MA appropriated on average \$39m a year to fund the program Funding levels for overall program: ~\$6.50 per capita Program details: Media campaign, use TV, radio, print, and other channels to inform public Promotion of local policies - boards of health and others to help initiate, develop, pass, and enforce Comparison: Prevalence: MA vs. pooled data of 48 other states and D.C., excluding CA (MA vs. ROC) Consumption: MA vs. 48 states (excluding MA and CA) (MA vs. ROC)		adult current smokers(≥ 100 cigarettes in lifetime and currently smoked every day or some days) Consumption: Annual change	U.S., no CA 1992-1999, 0.03% , P= <0.001 Relative change, 88- 92: ROC: -3 to -4% Relative change, 92, right after tax in MA: ROC: -4%	Annual change MA 1992- 1999, -0.43%, P= <0.001 Relative change, 1988 to 92: MA: -3 to -4% Relative change, 92, MA: -12% Relative change, 93 onward, MA: -4%	Absolute change, MA vs. U.S., 1992-1999, -0.46 pct pts per year	Smoking prevalence among adults in MA declined significantly faster than other states with no comparable tobacco control program in effect. Prior to tobacco control program in MA, similar rates of decline in MA and the rest of US With the program, decline in MA continued at a similar rate, but stopped in the rest of US

CDC, 1996Program scale: State1990-96current adult smokers, ≥ 100 cigarettes in lifetime and smokes nowMA: 23.5%MA: 21.3%MA: 2.2 pct ptssmok a dec preva compStudy design: Interrupted time series with concurrent comparison groupImplementation date: Ballot petition approved Nov. 1992; Tax implemented Jan. 1, 1993; began media campaign in October, 1993; funding for local, school, and youth programs in early 1994Study population: Massachusetts (and other state/ U.S.) residents aged 18+ For BRFSS: had to have a telephone and be part of the U.S. non- institutionalizedMA: 21.3% MA: 21.3%MA: 2.2.2 pct ptssmok a dec preva compOuality of execution: FairImplemented Jan. 1, 1993; began media campaign in October, 1993; funding for local, school, and youth programs in early 1994Study population: May at telephone and be part of the U.S. non- institutionalizedMA: 21.3% MA: 21.3%MA: 2.2.2 pct ptssmok a dec preva compOuality of execution: FairImplementation date: funding for local, school, and youth programs in early 1994Study population: have a telephone and be part of the U.S. non- institutionalizedConsumption, packs purchased perMA: 21.3% MA: 21.3%MA: 2.2.2 pct ptsStudy dec a dec preva compStudy population: have a telephone programs in early 1994Implementation date: packs purchased perMA: 21.3% Consumption;MA: 21.3% MA: 21.3%MA: 21.3% MA: 21.3%MA: 21.3% MA: 21.3%MA: 21.3% MA: 21.3%MA: 21.3% MA: 21.3%Implementa	mary
Study design: Interrupted time series with comparison groupProgram scale: StateStudy population: Massachusetts (and other state/ U.S.); residents aged 18+ For BRFSS: had to have a telephone descriptionsmokers, ≥ 100 cigarettes in lifetime and smokes nowUS: 24.1% US: 24.1% US: 23.4%US: -0.7 pct pts preva comp MA vs. ROC US be DOD: -1.5ppa dec preva comp media campaign in October, 1993; fonding for local, school, and youth programs in early 1994Study population descriptionsmokers, ≥ 100 cigarettes in lifetime and smokes nowUS: 24.1% US: 23.4%US: -0.7 pct pts uS: -0.7 pct ptsa dec preva comp mA vs. ROC US be DOD: -1.5ppNo population descriptionfor local, school, and youth programs in early 1994smoke-free environment: Taxes: 26 to 51 cents per pack (Jan 1993), dropped 10 months later due to discounting by tobacco mass media). Program funding: 116 million total through June 1996 (43 million for mass media). Program details: Media campaign starting October 1993smoker, ≥ taxsmokers, ≥ 100 cigarettes in lifetime and comp pack sales: purchased per adultUS: 24.1% US: 24.1% US: 23.4%US: 24.1% US: 24.1%US: 24.1% US: 23.4%US: 24.1% US: 24.1%US: 24.1% US: 24.1%U	ent MA adult
Study design: Interrupted time series with comparison groupImplementation date: Ballot pertition approved Nov. 1992; Tax implemented Jan. 1, 1993; began media campaign in October, 1993; funding for local, school, and youth programs in early 1994Study population: Massachusetts (and instruction and be part of the U.S. non- instructionalized population100 cigarettes in lifetime and smokes nowUS: 24.1%US: 23.4%US: -0.7 pct pts preva comppreva compQuality of execution: FairImplementation date: Ballot programs in early 1994To consumption: institutionalized population100 cigarettes institutionalized pack sales: purchased per adultUS: 24.1%US: 23.4%US: -0.7 pct pts preva institution institution institutionalized populationAuge of data based on doubling the half-year valueTaxes: 26 to 51 cents per pack (Jan. 1993), dropped 10 months later due to discounting by tobacco manufacturerTaxes: 26 to 51 cents per pack (Jan. 1993), 116 million total through June 1996 (43 million for mass media), 116 million total through June 1996 (43 million for mass media), 116 million total through June 1996 (43 million for mass media)Program details: Media campaign starting October 1993100 cigarettes taxes: 26 to 51 cents per pack (Jan. through June 1996 (43 million for mass media), 116 million total through June 1996 (43 million for mass media)100 cigarettes through June 1996 (43 million for mass med	ters showed
Interrupted time series with concurrent comparison groupImplementation date: Ballot petition approved Nov. 1992; Tax implemented Jan. 1, 1993; began media campaign in October, 1993; funding for local, school, and youth programs in early 1994Massachusetts (and other state/ U.S.) residents aged 184 For BRFSS: had to have a telephone and be part of the U.S. non- institutionalized population descriptionIn lifetime and smoke-free population that and the population pack sales: population the half-year valueImplementation date: Ballot pack sales: pack sales: population thave a telephone adultIn lifetime and smokes nowIn lifetime and smokes nowIn lifetime and smokes nowImplementation populationConsumption, pack sales: packs ales: porchased per adultIn lifetime and smoke.free populationIn lifetime and smoke.free populationIn lifetime and smoke.free populationIn lifetime and smoke.free populationIn lifetime and smoke.free environments Taxes: 26 to 51 cents per pack (Jan. 1993), dropped 10 months later due to discounting by tobacco manufacturerMassachusetts (and of US to S1 cents per pack (Jan. through June 1996 (43 million for mass media) 116 million total through June 1996 (43 million for mass media) 116 million total through June 1996 (43 million for mass media) 116 million total through June 1996 (43 million for mass media) 116 million for mass	
series with concurrent comparison grouppetition approved Nov. 1992; Tax implemented Jan. 1, 1993; began media campaign in October, 1993; funding for local, school, and youth programs in early 1994other state/ U.S.) residents aged 18+ For BRFSS: had to have a telephone and be part of the upscks sales: purchased per adultsmokes nowMA vs. ROC DOD: -1.5ppUS be DOD: -1.5ppQuality of execution: Fair No population descriptionIntervention environment: Smoke-free policies; also local level environmentsintervention environment: Smoke-free policies; also local level populationintervention environment: institutionalized populationintervention environment: mass media). Taxes: 26 to 51 cents per pack (Jan. 1993), dropped 10 months later through June 1996 (43 million for mass media). Program details: Media campaign starting October 1993other state/ U.S.) residents aged 18+ for BRFSS: had to have a telephone adultsmokes now consumption: packs purchased per adultIntervention environment: MA: -19.7%US be institutionalized populationNo population descriptionintervention environment: Taxes: 26 to 51 cents per pack (Jan. Taxes: 26 to 51 cents per pack (Jan. through June 1996 (43 million for mass media). It mough June 1996 (43 million for mass media). Program details: Media campaign starting October 1993other state/ U.S.) other s	
concurrent comparison groupimplemented Jan. 1, 1993; began media campaign in October, 1993; funding for local, school, and youth programs in early 1994residents aged 18+ For BRFSS: had to have a telephone and be part of the U.S. non- institutionalized population description1990-1992, relative changes in consumption, pack sales: purchased per adult1990-1992, relative changes in consumption, mack sales: purchased per adult1990-1992, relative changes in consumption, mack sales: purchased per adult1990-1992, relative changes in consumption; MA: -6.4%DOD: -1.5pp1990- relative changes in consumption; MA: 93-95 vs. 90-2: MA: -14.2%1990- relative changes in consumption; MA: -19.7%DOD: -1.5pp1990- relative changes in consumption; MA: -14.2%Last year of data was estimated based on doubling the half-year valueTaxes: 26 to 51 cents per pack (Jan. 1993), dropped 10 months later due to discounting by tobacco manufacturerTaxes: 26 to 51 cents per pack (Jan. 1993), dropped 10 months later due to discounting by tobacco manufacturerProgram funding: 116 million total through June 1996 (43 million for mass media)Program funding: 116 million total through June 1996 (43 million for mass media)Program details: Media campaign starting October 1993Program details: Media campaignProgram details: Media campaignProgram details: Media campaign	pared to the
comparison group Quality of execution: Fair No population descriptionmedia campaign in October, 1993; funding for local, school, and youth programs in early 1994For BRFSS: had to have a telephone and be part of the U.S. non- institutionalized population1990-1992, relative change in consumption: MA: -19.7%1992-1996, relative change in consumption: MA: -19.7%For MR relative change in consumption: MA: -19.7%For MA relative change in consumption: MA: -19.7%For MR relative change in consumption: MA: -19.7%For MA relative change in consumption: MA vs. ROC: -13.9%Last year of data based on doubling the half-year valueTakes: pogram funding: 116 million total through June 1996 (43 million for mass media)For MA rel	
Quality of execution: Fairfunding for local, school, and youth programs in early 1994have a telephone and be part of the u.S. non- institutionalized population1990-1992, relative change in consumption: MA: -6.4%1992-1996, relative change in consumption: MA: -19.7%From relative change in consumption: MA: -14.2%No population descriptionSmoke-free policies; also local level funding to promote smoke-free environmentsU.S. non- institutionalized populationConsumption: pack sales: packs1992-1996, relative change in consumption: MA: -6.4%93-95 vs. 90-2: MA: -14.2%From cigare MALast year of data was estimated based on doubling the half-year valueTaxes: 26 to 51 cents per pack (Jan. 1993), dropped 10 months later based on doubling the half-year valueProgram funding: 116 million total through June 1996 (43 million for mass media), 116 million total through June 1996 (43 million for mass media), 116 million total through June 1996 (43 million for mass media), 116 million total through June 1996 (43 million for mass media)Program details: Media campaign starting October 1993Program details: Media campaign starting October 1993Image and be part of the u.S. non- institutionalized populationImage and be part of the packsImage	-1995
Quality of execution: Fair No population descriptionprograms in early 1994and be part of the U.S. non- institutionalized population descriptionprograms in early 1994and be part of the U.S. non- institutionalized populationrelative change in consumption: MA: -19.7%relative change in consumption: MA: -19.7%cigard MA w sales sales of USNo population descriptionSmoke-free policies; also local level funding to promote smoke-free environmentsand be part of the U.S. non- institutionalized populationpacks ales: packs ales: purchased per adultrelative change in consumption: MA: -19.7%relative change in consumption: MA: -19.7%md be part of the U.S. non- institutionalized poulationLast year of data was estimated based on doubling the half-year valueTaxes: 26 to 51 cents per pack (Jan. 1993), dropped 10 months later due to discounting by tobacco manufacturernonths later due to discounting by tobacco manufacturerprogram funding: 116 million total through June 1996 (43 million for mass media)nother mass media)program details: Media campaign starting October 1993program details: Media camp	1992-1996,
execution: Fair No population descriptionIntervention environment: Smoke-free policies; also local level funding to promote smoke-free environmentsU.S. non- institutionalized poulationpacks purchased per adultchange in consumption: MA: -14.2%MA w than is sales of US ROC: -5.8%Last year of data was estimated based on doubling the half-year valueTaxes: 26 to 51 cents per pack (Jan. 1993), dropped 10 months later due to discounting by tobacco manufacturerU.S. non- institutionalized poulationpacks purchased per adultchange in consumption: MA: -14.2%MA w than is sales of US ROC: -5.8%MA: -19.7% MA: -14.2%MA was -14.2%MA was -14.2%Program funding: 116 million total through June 1996 (43 million for mass media), 116 million total through June 1996 (43 million for mass media)Program details: Media campaign starting October 1993Program details: Media campaignMA w	ette sales in
No population descriptionIntervention environment: Smoke-free policies; also local level funding to promote smoke-free environmentsinstitutionalized populationpurchased per adultconsumption: MA: -6.4%consumption: MA: -19.7%93-95 vs. 90-2: MA: -14.2%than sales of US ROC: -0.3%Last year of data was estimated based on doubling the half-year valueTaxes: 26 to 51 cents per pack (Jan. 1993), dropped 10 months later due to discounting by tobacco manufacturernonths later due to discounting by tobacco manufacturernonths later due to discounting of the million total through June 1996 (43 million for mass media), 116 million total through June 1996 (43 million for mass media)nonthold through June 1996 (43 million for mass media), 2000 for the million total through June 1996 (43 million for mass media)program details: Media campaign starting October 1993program details: Media Campaign starting October 1993<	vere lower
No population descriptionSmoke-free policies; also local level funding to promote smoke-free environmentspopulationadultMA: -6.4%MA: -19.7%MA: -14.2%sales of USLast year of data was estimated based on doubling the half-year valueTaxes: 26 to 51 cents per pack (Jan. 1993), dropped 10 months later due to discounting by tobacco manufacturernonths later due to discounting by tobacco mass media), 116 million total through June 1996 (43 million for mass media)nonths later due to discounting by tobacco mass media)nonths later due to discounting by tobacco due to discounting by tobacco due to discounting by tobacco mass media)nonths later due to discounting by tobacco due	cigarette
descriptionfunding to promote smoke-free environmentsof USLast year of data was estimated based on doubling the half-year valueTaxes: 26 to 51 cents per pack (Jan. 1993), dropped 10 months later due to discounting by tobacco manufacturerROC: -5.8%ROC: -6.1%ROC: -0.3% MA vs. ROC: -13.9%Program funding: 116 million total through June 1996 (43 million for mass media), 116 million total through June 1996 (43 million for mass media)Program details: Media campaign starting October 1993ROC: -6.1%ROC: -6.1%ROC: -0.3% MA vs. ROC: -13.9%	in the rest
Last year of data was estimated based on doubling the half-year valueenvironments Taxes: 26 to 51 cents per pack (Jan. 1993), dropped 10 months later due to discounting by tobacco manufacturerROC: -5.8%ROC: -6.1%ROC: -0.3%Program funding: 116 million total through June 1996 (43 million for mass media), 116 million total through June 1996 (43 million for mass media)Program details: Media campaign starting October 1993Program details: Media campaignImage: Comparison of the	
Last year of data was estimated based on doubling the half-year value Program funding: 116 million total through June 1996 (43 million for mass media), 116 million total through June 1996 (43 million for mass media) Program details: Media campaign starting October 1993	
based on doubling the half-year value Program funding: 116 million total through June 1996 (43 million for mass media), 116 million total through June 1996 (43 million for mass media) Program details: Media campaign starting October 1993	
the half-year value manufacturer Program funding: 116 million total through June 1996 (43 million for mass media), 116 million total through June 1996 (43 million for mass media) Program details: Media campaign starting October 1993	
value Program funding: 116 million total through June 1996 (43 million for mass media), 116 million total through June 1996 (43 million for mass media) Image: Comparison of the second	
Program funding: 116 million total through June 1996 (43 million for mass media), 116 million total through June 1996 (43 million for mass media) Program details: Media campaign starting October 1993	
through June 1996 (43 million for mass media), 116 million total through June 1996 (43 million for mass media) Program details: Media campaign starting October 1993	
mass media), 116 million total through June 1996 (43 million for mass media) Program details: Media campaign starting October 1993	
through June 1996 (43 million for mass media) Program details: Media campaign starting October 1993	
mass media) Program details: Media campaign starting October 1993	
Program details: Media campaign starting October 1993	
starting October 1993	
Local and school programs: reduce	
public tobacco smoke exposure,	
restrict youth cigarette access,	
health education programs, and	
other cessation services	
Comparison: MA vs. CA or rest of	
country (ROC)	

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
No description of population	Location: Massachusetts Program scale: State Implementation date: 93-94 Intervention environment: Smoke-free policies; tax increases Program funding: Program funded from excise tax on cigarettes; funding severely reduced since 2002 Program details: Media campaigns; advocacy from health organizations; increased availability of cessation and counseling services Comparison: Before-after	Study period: 1931 to 2003 Study population: Lung cancer deaths in MA	Lung cancer deaths per 100,000 persons	Overall: 1992: 60.88 1993: 57.83 Male: 1992: 87.82 1993: 77.74 Female: 1992: 43.95 1993: 45.16	Overall: 2003: 54.37 Male: 2003: 70.12 Female: 2003: 46.41	Relative change: 92-93: -5% 93-03: -6% 93-03 vs. 92-93: -1.0% Relative change: 92-93: -11.5% 93-03: -9.8% 93-03 vs. 92-93: 1.7% Relative change: 92-93: 2.8% 93-03: 2.8% 93-03 vs. 92-93: 0%	Observed decrease in overall lung cancer mortality rates, but number is mostly driven by decrease among males; apparent increase in the female lung cancer rate.
Author, Year: Kabir, 2008 Study design: Simple Time Series Quality of execution: Good No population or program description	Location: Massachusetts Program scale: State Implementation date: 93-94 Intervention environment: Cigarette tax Program funding: Funding through cigarette tax Program details: NR Comparison: No comparison	Study period: 1993 to 2003 Study population: MA Regular daily smokers, 25-84 years old (From MA BRFSS database, and SEER database)	Smoking prevalence Cardiovascular deaths per 100,000 persons	1993: 20.5% 1993: 199	2003: 14.5% 2003: 137	Absolute Change: -6 pct pts Relative Change: -31.2%	Observed decrease in smoking prevalence and CHD mortality rate over the 10 years since the implementation of the comprehensive tobacco control program in MA

Study Info	Intervention Characteristics	Population Characteristics		Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Marlow, 2012 Study design: Interrupted time series Quality of execution: Fair		Study period: 1980 to 2005; related to spending, from 1994 to 2005; Study population: Smokers in MA and their purchase of cigarettes	in association			Limited or no effect found for tobacco control spending on the decline in cigarette sales in MA, with current or cumulative spending	The evidence shows that taxed cigarette sales declined in MA due to price increases, changes in income, and smuggling; minimum impact due to tobacco control spending or smoking bans;

Program scale: Stateduring first 2 weeks of April, 1999; 2 nd questionnaire sent out during first 2within past 30 daysschool outside MA: 38.3%school inside MA: 27.5%during first school, aQuality of execution: FairIntervention environment: Tax increase in 1992Intervention environment: Tax increase in 1992weeks of May, 1999 to non-responders38.3%27.5%-10.7 pct pts; p=0.006of exposu the MA Te Adjusted OR: 0.67 (0.46, 0.97)FairProgram funding: Funded by tobacco excise tax; approximately school outside MAStudy population: 4-year public colleges and universities in MA; Colleges that provided on-campus housing for at leastStudence of prevalence of5.6%6.3%0.7 pct pts; bit 3%during first bit attended colleges in MA	Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%Cl]	Summary
of total); these students may notsecondhand smoke11 institutions met criteria, and agreedwithin past 30 daysin current use or sm	Rigotti, 2002 Study design: Cross-sectional Quality of execution: Fair Students who attended high school outside MA but attended colleges in MA were much fewer in number (15% of total); these students may not be representative of general student population outside MA; possible selection bias Cross-sectional design makes interpretation of results difficult; can only infer association but no	 Program scale: State Implementation date: 93-94 Intervention environment: Tax increase in 1992 Program funding: Funded by tobacco excise tax; approximately \$39 million per year Program details: MTCP's goals are to reduce tobacco uptake by youths, increase cessation among adults, and protect non-smokers from secondhand smoke Activities relevant to youth: Aggressive statewide mass media counter-advertising campaign; support to local health departments to enact and enforce youth access; clean indoor air regulations; programs such as school based tobacco education and outreach to at-risk youths Comparison: Students who attend high school in MA compared to students who attended high school 	Study period: First questionnaire sent during first 2 weeks of April, 1999; 2 nd questionnaire sent out during first 2 weeks of May, 1999 to non-respondersStudy population: 4-year public colleges and universities in MA; Colleges that provided on-campus housing for at least 20% of undergrads; 11 institutions met criteria, and agreed to participate:Randomly selected sample of 225 full time students enrolled at participating institutions;Questionnaire sent: 2475 students Response rate: 56% 1256 questionnaires returnedFor analysis comparing students attended high school in or outside MA:	Prevalence of cigarette use within past 30 days Prevalence of cigar use within past 30 days Prevalence of smokeless tobacco use within past 30 days	Students attended high school outside MA: 38.3%	Students attended high school inside MA: 27.5%	[95%CI] Absolute difference: -10.7 pct pts; p=0.006 Adjusted OR: 0.67 (0.46, 0.97) Adjusted for age, sex, race, parental education, and students' college residence 0.7 pct pts; p=0.732 -2.4 pct pts;	Massachusetts during high school, a marker of exposure to the MA Tobacco Control Program, was associated with a lower prevalence of tobacco use

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary		
Author, Year:	Location: MA, US	Study period: 1993		1993	1996	Absolute change:	A reduction in the		
Soldz 2000		and 1996	Current	Overall:	Overall:	-1.5 pct pts;	prevalence of		
	Program scale: State		smokers,	22.5% <u>+</u> 1.9%	21% <u>+</u> 2.1%	<u>+</u> 2.8 pct pts	current smokers		
Study design:		Study population:	middle school	Mala	N d = l =	(□ == + = + = *	in MA was found		
Before-after	Implementation date: 93-94	7th to 12th graders	students (7th-		Male:	-6.5 pct pts*;	among the middle school		
Quality of	Intervention environment: Tax	1984-90: students	8th graders) smoked in	25.6% <u>+</u> 2.4%	19.1% <u>+</u> 2.2%	<u>+</u> 3.2 pct pts	group;		
execution: Good	increase in 1992 of \$0.25 per pack	from a random	past 30 days	Female:	Female:	3.4 pct pts;	group,		
		sample of MA public	past 50 days	19.7% <u>+</u> 2.4%	23.1% <u>+</u> 2.6%	<u>+</u> 3.5 pct pts	However no		
	Program funding: Funded through	school classrooms,		17.770 <u>-1</u> 2.170	20.170-2.070	<u>-</u> 0.0 per pro	impact was		
	excise tax on cigarette packs	stratified by county	Prevalence of	Non-Hispanic	Non-Hispanic		shown for the		
		and grade	current	black:	black:	-6.7 pct pts;	high school group		
	Program details: Goal is to prevent		smoking	22.5% <u>+</u> 4.5%	15.8% <u>+</u> 2.3%	<u>+</u> 5.0 pct pts	5		
	youth from initiating smoking and to		among middle	_					
	reduce their access to tobacco	supplemented by	school	Non-Hispanic	Non-Hispanic				
		sample of students	students,	white:	white:	-1.4 pct pts;			
	Community efforts: enforcement of	in public school	stratified by	23.4% <u>+</u> 2.1%	22.0% <u>+</u> 2.5%	<u>+</u> 3.3 pct pts			
	youth access provisions;	classrooms in 5	race/ethnicity						
	community-based tobacco	urban areas with		Hispanic:	Hispanic:	-9.2 pct pts;			
	prevention programs	strong non-white		27.2% <u>+</u> 4.0%	18.0% <u>+</u> 2.7%	<u>+</u> 4.8 pct pts			
		student		o "					
	School efforts: youth based	representation	Prevalence:	Overall:	Overall:	2.0 pct pts;			
	initiatives to prevent smoking		Current	33.6% <u>+</u> 1.7%	35.6% <u>+</u> 1.7%	<u>+</u> 2.5 pct pts			
	Media efforts: statewide media		smokers high schools (9th-	Male:	Male:	2.9 pct ptc			
	campaigns to reduce smoking and		12th graders):		34.8% <u>+</u> 2.3%	3.8 pct pts; <u>+</u> 3.0 pct pts			
	smokeless tobacco use				smoked within		34.070 <u>+</u> 2.370	$\frac{+}{-1}$ 3.0 pct pts	
			last 30 days	Female:	Female:	0.6 pct pts;			
	Comparison: No comparison		last 50 days	35.8% <u>+</u> 2.2%	36.4% <u>+</u> 2.0%	\pm 2.8 pct pts			
				<u> </u>	<u> </u>	<u> </u>			
				Non-Hispanic	Non-Hispanic				
				black:	black:	-3.0 pct pts;			
				21.7% <u>+</u> 3.0%	18.7% <u>+</u> 2.7%	<u>+</u> 4.0 pct pts			
				Non-Hispanic	Non-Hispanic				
				white:	white:	1.6 pct pts;			
				36.4% <u>+</u> 1.8%	38.0% <u>+</u> 1.9%	<u>+</u> 2.7 pct pts			
						·			
				Hispanic:	Hispanic:	5.7 pct pts;			
				25.5% <u>+</u> 3.9%	31.2% <u>+</u> 3.6%	<u>+</u> 5.4 pct pts			

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%Cl]	Summary
Author, Year:	Location: MA, US	Study period:	Prevalence:	Grade 8, 96:	Grade 8, 99:	Absolute change	Current cigarette
Soldz 2002		1996-1999	Current	MA: 26.0%	MA: 15.6%		use declined
	Program scale: State		cigarette use:			p<.05	across all grade
Study design:		Study population:	any use within				levels after
Time series with	Implementation date: 93-94	6th to 12th graders	past 30 days	NE: 22.1%	NE: 15.7%	NE: -6.4 pct pts	program
concurrent	Internetical conduction of Terr	100/		ROC: 21.0%	ROC: 17.5%	ROC: -3.5 pct pts	with 8 th and 10 th
	Intervention environment: Tax	1996 sample:				DOD:	
interval	increase in 1992 of \$0.25 per pack	stratified random sample of schools				MA vs. NE: -4 pct	a larger reduction
Quality of	Dreamon funding. Funded through	and classrooms				pts MA vs. ROC: -6.9	a larger reduction
	Program funding: Funded through excise tax on cigarette packs	throughout the state				pct pts	The results for
execution: Good	excise tax on cigarette packs	with additional				perpre	current
	Program details: Goal is to prevent			Grade 10, 96:	Grade 10 00.	MA: -9 pct pts;	smokeless
	youth from initiating smoking and to			MA: 33.6%	MA: 24.6%	p<0.05	tobacco use were
	reduce their access to tobacco	classrooms in 5		NE: 31.7%	NE: 28.0%	NE: -3.7 pct pts	mixed with only
		urban areas with		ROC: 30.4%	ROC: 25.7%	ROC: -4.7 pct pts	
	Community efforts: enforcement of	strong non-white		100. 30.470	100. 23.770	DOD:	cohort showing a
	youth access provisions;	student				MA vs. NE: -5.3	reduction in
	community-based tobacco	representation				pct pts	prevalence after
	prevention programs					MA vs. ROC: -4.3	
	P	1999 sample: urban				pct pts	started
	School efforts: youth based	oversample replaced					
	initiatives to prevent smoking	by additional 3 level		Grade 12, 96:	Grade 12, 99:	MA: -5.8 pct pts;	A reduction in
		stratification on		MA: 40.7%	MA: 34.9%	NS	prevalence was
	Media efforts: statewide media	minority student% in		NE: 38.5%	NE: 34.2%	NE: -4.3 pct pts	shown across all
	campaigns to reduce smoking and	each school and a		ROC: 34.0%	ROC: 34.6%	ROC: 0.6 pct pts	race ethnicity
	smokeless tobacco use	higher sampling rate				DOD:	groups in the
		for strata with a				MA vs. NE: -1.5	middle school
	Comparison: MA compared to	greater percentage				pct pts	cohort with the
	northeast regional: consisting of NY,	of minority students					greatest impact
	PA, NJ, and five New England states					pct pts	among Hispanic
	(NE)						and non-Hispanic
			Prevalence:	MA, 1996	MA, 1999:		black after
	MA compared to national trend,		Current cigar	Grade 8:	Grade 8:	-5.5 pct pts;	program
	without MA (ROC)		use: any use	10.9%	5.4%	p<0.05	exposure
			within past 30	Grade 10:	Grade 10:		
			days	16.0%	12.2%	-3.8 pct pts; NS	
				Grade 12:	Grade 12:		
O antique l				13.4%	12.3%	-1.1 pct pts	
Continued on next							
page						1	

Page 28 of 64

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%Cl]	Summary
Author, Year: Soldz 2002, Continued			Prevalence: Current smokeless tobacco use: any use within	1996-1999: Grade 8: NE: -2.4pp ROC: -2.6pp	1996-1999: Grade 8: MA: -1.7pp	DOD: MA vs. NE: 0.7pp MA vs. ROC: 0.9pp	A reduction in prevalence was shown across all race ethnicity groups in the
			past 30 days	Grade 10: NE: -1.6pp ROC: -2.1pp	Grade 10: MA: -2.8 pct pts	MA vs. NE:-1.2pp MA vs. ROC: -0.7 pct pts	high school cohort with the greatest impact among non-
				Grade 12: NE: -4.1pp ROC: -1.4pp	Grade 12: MA: -2.2 pct pts	MA vs. NE:1.9pp MA vs. ROC: -0.8 pct pts	Hispanic blacks after implementation of the program
			Prevalence: Current cigarette use stratified by gender	Grades 7-8: Female, 96: 23.1% Male, 96: 19.0% Grades 9-12:	Grade 7-8: Female, 99: 13.9% Male, 99: 11.1% Grade 9-12:	-9.2 pct pts; p<0.01 -7.9 pct pts; p<0.01	
				Female, 96: 36.5% Male, 96: 34.5%	Female, 99: 29.2% Male, 99: 30.4%	-7.3 pct pts; p<0.01 -4.1 pct pts; NS	
			Disparities: current smoking prevalence stratified by race/ ethnicity (combining with Soldz'00)	Grades 7-8, 93: Non-Hispanic Black: 22.5% Non-Hispanic White: 23.4% Hispanic: 27.2%	Grades 7-8, 99: Non-Hispanic Black: 10% Non-Hispanic White: 12.8% Hispanic: 13.8%	-12.5 pct pts; p<0.05 -10.6 pct pts; p<0.01 -13.4 pct pts	
				Grades 9-12, 93: Non-Hispanic Black: 21.7% Non-Hispanic White: 36.4% Hispanic: 25.5%	Grades 9-12, 99: Non-Hispanic Black: 15.3% Non-Hispanic White: 33.0% Hispanic: 22.6%	-6.4 pct pts -3.4 pct pts -2.9 pct pts	

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Weintraub, 2002 Study design: Interrupted time series with concurrent comparison Quality of execution: Fair Limited program description Decreasing response rates for BRFSS over the years	Location: MA, USA Program scale: State Implementation date: 93-94 Intervention environment: Tax increase of \$0.25 in 1992 Program funding: From tobacco product excise tax increase in 1992; revenue deposited to a Health Protection Fund; portions of this fund has been supporting MTCP since 1993 Program details: The MTCP's principal goal is to reduce the public health risks of tobacco use through a comprehensive set of statewide, regional, and local activities aimed at preventing smoking initiation, improving smoking cessation, and reducing exposure to environmental tobacco smoke Comparison: 41 states that participated in the survey continuously since 1990 (Alaska, Arkansas, Kansas, Nevada, New Jersey, Rhode Island, and Wyoming are excluded). CA was excluded to enable appropriate comparison between Massachusetts and the states without substantial tobacco control programs for most of the period; Rest of country: ROC	Study period: 1990-1999 Study population: Non-institutionalized adults aged 18 and older (BRFSS)	Smoking prevalence: percentage of current smokers Current smoker: smoked ≥ 100 cigarettes in lifetime and currently smoking; Change since 1996: smokers are the ones who smoked at least 100 cigs in life time and currently smoking every day or some days;	Overall: MA, 1992: 22.8% ROC, 1992: 23.0% Female: MA, 1992: 21.1% ROC, 1992: 21.3% Male: MA, 1992: 24.8% ROC, 1992: 25.0%	Overall: MA, 1999: 19.4% ROC, 1999: 23.3% Female: MA, 1999: 19.3% ROC, 1999: 21.2% Male: MA, 1999: 19.5% ROC, 1999: 25.6%	Absolute change: MA, 92-99: -3.4 pct pts ROC, 92-99 : 0.3 pct pts MA vs. ROC: -3.7 pct pts MA, 92-99: -1.8 pct pts ROC, 92-99: -0.1 pct pts MA vs. ROC: -1.7 pct pts MA, 92-99: -5.3 pct pts ROC, 92-99: 0.6 pct pts MA vs. ROC: -5.9 pct pts	Tobacco control efforts in MA contributed to a reduction in smoking prevalence, resulting in a significant difference in trends of smoking prevalence between 1990 and 1999

Minnesota Study

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%Cl]	Summary
Author, Year:	Location: MN, US	Study period:	Prevalence: 18	1999:	2010 :	Absolute change:	Decline in percent
CDC 2011		Evaluation from	or older, ≥ 100	MN: 22.1%	MN: 16.1%	MN: -6.0 pct pts	of adult MN
	Program scale: State-wide	1999 to 2010	cigarettes in				residents who
Study design:				National:	National:		smoke, reduction
Interrupted time	Implementation date: Began in	Study population:	currently	23.3%	19.9%	pts	in number of
series with	2001 with quitline	Eligibility set up by	smoked every			DOD: 2 (not nto	cigarettes
concurrent	Intervention environment: SF	MATS (MN Adult Tobacco Survey);	day or some			DOD: -2.6 pct pts	smoked, reported reduction in
comparison group (prevalence;	policy; Tax increase over the years	representative	days			Relative change:	exposure to SHS,
cigarette sales);	policy, Tax increase over the years	sample of entire MN	Daily	MN, 1999:	MN, 2010:	-14.7%	and the increase
Interrupted time	Program funding: From MSA	civilian, non-	consumption:	14.3	12.2	-14.770	in SF homes
series (daily		institutionalized	average # of	11.0	12.2		collectively
consumption; SF	Program details:	adult population;	cig smoked				suggest a
related outcomes)	Quitlines: introduced in 2001; for	one adult from each	5			Relative risk:	favorable shift in
,	tobacco users without health	HH identified	Per capita	NR	99-09 :	0.923	the tobacco use
Quality of	insurance coverage; free NRT added	through random	cigarette pack		MN: -40%	Relative change:	behaviors and
execution:	in 2002	dialing process	sales		National:	-7.7%	practices of MN
Fair					-35%		adults;
		Population				Absolute change:	
population	in 2001; to educate entire	characteristics not	SHS exposure:		MN, 2010:	-21.6pp	
	population re harms of tobacco use	reported		67.2%	45.6%	-35.0 to -8.2 pct	
Low response rate	and to promote cessation		smoked near			pts	
Conformaling, tox	Other acception convision free to		interviewee				
Confounding: tax increase and SF	Other cessation services: face-to- face; worksite; web-based		during past 7				
policies	Tace; worksite; web-based		days			Absolute change:	
implemented	Comparisons: state program		SF homes: if	MN, 1999:	MN, 2007	18.7 pct pts	
during study	compared to national trend for some		smoking is	64.5%	(prior to SF	6.8 to 30.6 pct	
period; unable to	of the results		restricted in	01.070	policy): 83.2%		
isolate program			interviewee			r	
effectiveness in	Comparison: State program		homes				
addition to these	compared to national trend for some						
policy changes	of the outcomes						

New York State Studies

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year:	Location: Rockland County, NYS; a	Study period:	Prevalence,	Rockland,	Rockland,	Absolute change:	At 9.7%
Lieberman, 2013	small suburban county north of NYC	2003-2009; For youth smoking	adults	2003: 16.0%	2009:9.7%	-6.3pp	prevalence, Rockland had the
Study design:	Program scale: City/Local	prevalence: 2000-		NYS, 2003:	NYS, 2009:		lowest smoking
Time series (post		2010;		21.6%	18%	-3.6pp	rate among NYS
only) with	Implementation date: 2000						counties
concurrent		Study population:		US, 2003:	US, 2009:		
comparison	Intervention environment: "Put It			22%	17.9%	-4.1pp	Rockland county
groups, interval	Out Rockland" program;	298,585 people north of NYC by local				DOD:	showed greater decline in
Quality of	Young Lungs at Play" ordinances:	computer-assisted				Rockland vs.	prevalence
execution: Fair	smoke-free ordinances;	random-digit dial				NYS: -2.7pp	compared to US
	Taxes: both local and state	telephone survey				Rockland vs. US:	and New York
No description of						-2.2pp	State after
study population	Program funding: \$1 million of					1.1.	program
	MSA funds to comprehensive		Prevalence,	Rockland,	Rockland,		implementation
No description of	tobacco control; dropped to		youth:	2000:	2010:		
sampling methods	\$325,000 by 2010;		smoking in the	0	8th graders:		Both 8 th and 10 th
	\$6.75 per capita of combined state		past 30 days	5.4%	3.3%	-2.1pp	graders showed
	and local funds dedicated to tobacco						reduced
outcome definition	control in Rockland County (\$4.41			10th graders:	10th graders:	7.0	prevalence with
No description of	from NYS)			16.8%	9.5%	-7.3pp	more impact in the 10 th grade
	Program details: Collaboration		Smoking bans	Rockland	Rockland		cohort
statistical methods	with nontraditional partners such as		in home	2003: 77.4%	2009: 86.3%	8.9pp	CONDIT
	businesses, municipalities, schools,		Infilonie	2003. 77.470	2007. 00.370	0.700	More homes
	and media organizations; school and						adopted smoking
	community youth clubs; promotion						bans after
	of smoke-free home policies in						program
	preschools, daycare centers, and						exposure
	work sites; cessation program with						
	free NRT; targeted local media						
	campaign: SHS and cessation						
	messages; evaluation						
	Comparison: For some outcomes,						
	compared to NYS or US						

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Murphy, 2010 Study design: Time series, interval Quality of execution: Fair Low follow-up:	Indoor Air Law, Medicaid coverage of smoking cessation medication, excise tax increase on cigarettes packs	Study period: 2002-2005 Study population: Adult low income smokers recruited from the Department of Social Services in Erie County, New York and re- contacted in 2005. All self-reported		2002: 16.1 ±9.4 2002: 26.6% 2002: 4.2%	2005: 13.7±9.4 2005: 51.9% 2005: 11.0%	Relative change: -14.9% Absolute change: 25.3 pct pts Absolute change: 6.8pct pts	There is an overall decrease in smoking frequency and consumption, and an increase in cessation attempts and cessation product use between 2002 and 2005, when the various
34% People lost to follow-up are different from the ones finished the study in race and smoking habits; authors didn't control for this potential bias;	Program funding: NR Program details: NYS Smokers Quitline (2000) County tobacco coalitions: conduct local tobacco control programming, including media, Quit and Win Contests, and cessation activities, which complement the state initiatives Comparison: No comparison	current smokers					tobacco control initiatives began.

New York City Studies

Study Info	Intervention Characteristics	Population Characteristics	Effect measure		Reported effect	Value used in summary [95%CI]	Summary
Author, Year:	Location: NYC, NY	Study period:	Prevalence:	2002	2006	Absolute change:	19% relative
CDC, 2007		2002-2006	adults	21.6%	17.5%	-4.1 pct. pts.	decrease (5%
	Program scale: City			(20.5-22.6)	(16.6-18.5)	P<0.001	annually) in
Study design:		Study population:					smoking
Interrupted time-	Implementation date: 2002	NYC adult civilian,	Prevalence,	23.8%	15.5%	-8.3	prevalence from
series		non-institutionalized	young adults	(20.7-27.2)	(12.5-19.1)		2002-2006 (but,
	Intervention environment:	residents					no change from
Quality of	xecution:	excise tax	Prevalence,	Non-Hispanic			2004-2005).
execution:			stratified by		17.7%	-3.1 pp	Aggressive media
Good	Program funding: NR		race/ ethnicity			P≤.05	campaign (in
				White 23.9%	19.8%	-4.1 pp	2006) can further
	Program details: Media campaign,			Asian/Pacific		P≤.05	decrease
	cessation services, education of			ls.	10.7%	-4.6 pp	prevalence in
	public and healthcare providers,			15.3%		P≤.05	context of
	rigorous evaluation			Hispanic	17.1%	-4.4 pp	comprehensive
				21.5%		P≤.05	program.
	Comparison: N/A			Other	18.3%	-4.5 pp	
				22.8%		P=NS	
			Prevalence,				
			stratified by	Less than high		-1.5 pp	
			education	school: 24.5%		P=NS	
				High school	01 50/		
				graduate:	21.5%	-2.4 pp	
				23.9%	10.00/	P=NS	
					19.3%	-5.0 pp	
				24.3%	12.00/	P≤.05	
				College or	13.0%	-3.4 pp	
			Prevalence,	more: 16.4%		P≤.05	
				Male	19.9%	-3.5 pp	
			gender	23.4%	17.770	-3.5 pp P≤.05	
1			yender	Z3.4% Female	15.3%	-4.5 pp	
				19.8%	15.570	-4.5 pp P≤.05	
				17.0/0		r 2.00	

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Frieden, 2005	Location: New York City (NYC), NYS, US	Study period: NYS BRFSS: 1993 through 2001;	Prevalence: ≥ 100 cigarettes in lifetime and	2002: Young adults (18-24):	2003: Young adults (18-24):	Absolute change: -4.5 pct pts	Overall the largest declines in smoking
Study design: Before-after	Program scale: City	NYC DOHMH: 2002 and 2003	smoked on all or some days	23.8%	19.3%		prevalence were among young
	Implementation date: 2002			Adults: 21.6%	Adults: 19.2%	-2.4 pct pts	people and heavy
Quality of	I	Study population:	Duranalanaa af				smokers (Also
execution: Good	Intervention environment: NYC tax increase from \$0.08 to	BRFSS: 3-year aggregates; 1993-	Prevalence of heavy	Heavy	Heavy smoker: 6.2%	1.9 pct ptc	women, people in the lowest and
Population		95: 2828	smoker: >10	SITIONEL 0.070	SITIUKEL 0.270	- 1.6 pct pts	highest income
characteristics	NYS tax increase from \$1.11 to	respondents;	cigarettes per				brackets, and
	\$1.50 per pack on April 1, 2002;	1996-98: 3759	day				people with
NYC, not the	Combining NYC and NYS taxes, real	respondents;					higher
surveyed group;	price of a pack of cigarettes became	1999-01: 3271	Prevalence of		Light smoker:		educational
	\$6.85	respondents	light smoker:	13.4%	12.9%	-0.5 pct pts	levels)
participants	Creater Franklin Actor and the 2002		1-10				A
representative of NYC	Smoke-Free Air Act: passed in 2002; effective on March 20, 2003;	random digit dialing	cigarettes per day				An increase in quit attempts was
NYC		telephone survey;	uay				observed among
	extending shoke free environments	10 attempts made to	Prevalence.	Female:	Female:		NYC smokers
	Program funding: NR	reach each	stratified by	19.8%	17.2%	-2.6 pct pts	2002-2003
		telephone number;	gender	Male: 23.4%	Male: 21.6%	-1.8 pct pts	
		One adult aged 18 or					Consumption
	services: Treatment guidelines to all		Prevalence,	Non-Hispanic	Non-Hispanic		dropped after
	physicians in the city;	selected from each	stratified by		black: 18.3%	-2.5 pct pts	initiation of the
	Nicotine patch distribution program: free 6-week courses to heavy	participating HH; Approximately	race/ethnicity	Non-Hispanic white: 23.9%	Non-Hispanic white: 21.9%	-2.0 pct pts	program in NYC
	smokers, started on April 2, 2003	10,000 adult NYC		Asian/Pacific	Asian/Pacific	-2.0 pct pts	In both home and
		residents		Is.: 15.3%	Is.: 13.6%	-1.7 pct pts	work settings
	Media component: Expansion of			Other: 22.8%	Other: 20.2%	-2.6 pct pts	second hand
	educational efforts; print media			Hispanic:	Hispanic:		smoke exposure
	highlighted quitting			21.5%	19.0%	-2.5 pct pts	decreases after
							implementation
	Comparison: No comparison group;		Prevalence,	Less than high		1.5	of NYC
	before-after study		stratified by			-1.5 pct pts	comprehensive
			education		High school grad: 21.5%	-2.4 pct pts	program
				Some college:	Some college:	-2.4 pci pis	
				24.3%	19.3%	-5 pct pts	
Continued on next				College or	College or		
page				more: 16.4%	more: 13.0	-3.4 pct pt	

Page 35 of 64

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Frieden, 2005, continued			Prevalence stratified by income level	<\$25,000: 24.1% \$25,000- 49,999:	<\$25,000: 21.3% \$25,000- 49,999:	Absolute change: -2.8 pct pts	The evidence demonstrates greater declines in prevalence
				23.5% \$50,000- 74,999:	21.9% \$50,000- 74,999:	-1.6 pct pts	among the low income groups
			18.5% ≥ 75,000:	19.4% ≥75,000:	0.9 pct pts	Reductions in daily smoking	
		Quit attempts:	18.7%	15.9% NYC smokers,	-2.8 pct pts	occurred among all groups with the greatest	
			at least once during the preceding year	2002: 57.3%	2003: 59.5%	2.2pp	decline among the lowest income group.
			Consumption: cigarettes smoked per day	NYC smokers, 2002:11.2	NYC smokers, 2003:10.6	-0.6 cigarettes per day Relative change: -5.4%	The evidence showed a greater decline in second hand smoke exposure among
			Secondhand Smoke (SHS): Non- smoking	2002: 8.5%	NYC residents, 2003: 6.0%	-2.5 pct pts Relative change: -29.4%, p<.0001 -3.5 pct pts	Hispanics than non-Hispanic whites
			adults reporting exposure at home	Low income home: 9.3%	Low income home: 5.8%	Relative change: -37.6%, p<.0001 -3.1 pct pts Relative change:	
				Non-Hispanic whites: 8.4%	Non-Hispanic whites: 5.3%	-36.9%, p=.003 -4.9 pct pts Relative change:	
				Hispanic: 10.5%	Hispanic: 5.6%	-46.7%, p<.0001	
						Relative change: -18.0%, p=.005	
			SHS exposure at work by non-smokers	NYC residents, 2002: 8.9%	NYC residents, 2003: 7.3%		
Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
---	--	--	---	------------------------	------------------------	--	---
Author, Year: Kilgore, 2014	Location: NYC, NY Program scale: City	Study period: 2002-2012	Prevalence: adult smoking	2002 NYC: 21.5%	2010 NYC: 14.0%	Absolute change: -7.5 pct pts	Adult and youth smoking prevalence, and
Study design: Interrupted time- series with concurrent	Implementation date: 2002	Study population: New York City Community Health Survey: telephone		ROC: 22.6%	ROC: 17.3%	-5.3 pp DOD: -2.2 pp	adult cigarette consumption, declined over the study period.
comparison Quality of	Smoke-free policies, tobacco tax, various other policies	survey of 8,000- 10,000 adults; weighted to	Rate of decline, 2002- 2010	ROC: -0.65; SE=0.02	NYC: -0.83; SE=0.07		study portou.
execution: Fair No description of	Program funding: Well-funded program; revenue generated from tobacco taxes	represent population of NYC adults Youth Risk Behavior	Prevalence: smoking among high	2001 NYC: 17.6%	2011 NYC: 8.5%	Absolute change: -9.1 pct pts	
study population Limited details on	Program details: Quitline, mass- media, access to cessation medicines, evaluation	Survey: assesses smoking behavior in ~10,000 NYC	school students	ROC: 28.5%	ROC: 18.1	-10.4 pct pts DOD: 1.3 pct pts	
survey methods No description of	Comparison: NYC compared with rest of US (ROC)	students in public high school	Consumption	2002: 14.6	2012: 11.8	Absolute change:	
data analysis			among daily smokers: number of cigarettes per day	cigs./ day	cigs./ day	-2.8 cig per day Relative change: -19.2%	

Oregon Study

Study Info	Intervention Characteristics	•		Reported baseline	Reported effect	Value used in summary [95%Cl]	Summary
Author, Year: CDC, 1999 Study design: Before-After Quality of execution: Fair No population description No statistical tests carried out or described	 Location: OR, USA Program scale: State Implementation date: 1997 Intervention environment: Increase in cigarette tax by 30 cents to 68 cents per pack Program funding: Program details: 10% of the additional tax revenue allocated to Oregon Health Division to develop and implement a tobacco use prevention program Comparison: Compared to national data excluding data from OR, AZ, CA and MA (data not available for duration of the study, hence not used) 	Population characteristics not reported	Annual per capita sales of cigarettes: taxed pack sales (Per capita consumption calculated by dividing the number of packs sold by the population of OR each year)		1998: 82 packs	Relative change: -11.3%	Oregon experienced a 11.3% reduction in cigarette consumption, from 92 packs to 82 packs per capita. The decline in cigarette consumption in Oregon, California and Massachusetts indicates that an adequately funded comprehensive tobacco control program can quickly and substantially reduce tobacco use.

Texas Studies

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: McAlister, 2004 Study design: Before-after with concurrent comparison group Quality of execution: Fair Loss to f/u; Potential bias due to differences between responders and non-responders Grouping of 14 experimental conditions into 5 categories, potential confounding due to bleed over effect, and artificially grouping areas together	Location: Eastern TX, US Program scale: City/Local (community-wide) Implementation date: 2000 Intervention environment: NR; Program funding: MSA; pilot program funded at approximately \$9mil/year; Program details: Pilot study testing different combinations of program components Media: 3 levels of intensity; none, low- or high-level; Adult media campaign; TV, radio, newspaper, billboard ads Community program components: Law enforcement programs; Cessation programs: clinical and community-based; focus on increasing availability of and access to cessation counseling services; and NRTs to reduce nicotine dependence; school-community prevention programs Comparison: Combinations of media levels with or without programs including a cessation component	Study period: Apr- May00 and Nov- Dec00 Study population: 19 areas in Eastern TX, all with population over 100,000 Participants: >=18yrs; Random digit dialing; respondent within each HH with most recent birthday selected	Prevalence: current daily smokers Cessation of daily smoking: no longer smoked every day	Apr-May 2000 Intense media + comp. community program: 18% Rest of the state + areas without program: 13% Texas region without comp. program: 5%	Nov-Dec 2000 Intense media + comp. community program: 17% Rest of the state + areas without program: 17% Texas region with comp. program: 14%	Absolute Change: -1.0 pct pts DOD: Comprehensive community program vs. areas without program: -5.0 pct pts Absolute Change: 9 pct pts	Area with media and community comprehensive programs showed greater reduction in prevalence compared to areas without a program. Daily smoking cessation rate was 9 pct pts higher in areas with high-level media campaigns and cessation service delivery vs. areas with no campaigns or services.

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: McAlister, 2006 Study design: For Port Arthur/ Beaumont area, the area of interest, before- after with concurrent comparison groups Quality of execution: Fair No description of study population	Intervention Characteristics Location: Port Arthur/Beaumont; Harris County; TX, US Program scale: City/Local Implementation date: Pilot started in 2000 Intervention environment: No other policies in place Program funding: MSA awarded TX with about \$1.5bil; \$200mil endowment established with about \$9mil per year spent on tobacco control 2001-03: Harris County expanded to funding to \$12mil per year 2003-05: Reduction in support for tobacco control; Harris county at \$1 per capita Program details: Media: youth and adult focused to prevent initiation and increase cessation QL: funding and promotion of ACS QL School/community activities: primarily to prevent youth initiation Comparison: Port Arthur/Beaumont	Characteristics Study period: 2000-2004; Study population: Random digit dialing in study areas and selected areas of TX: Port Arthur/ Beaumont; Harris County, State of TX		-	-	summary [95%CI] Absolute Change: -6.0 pct pts -2.0 pct pts DOD: Port Arthur/	Summary The Port Arthur/Beaumont region showed a greater reduction in prevalence than the rest of the state which lacked a sustained comprehensive program. Similarly the Non-Hispanic White men cohort showed an overall -54.0% reduction in daily consumption with sustained program exposure compared to the rest of the state (without sustained program).
	Comparison: Port Arthur/Beaumont (sustained / comprehensive tobacco control program); Harris county (including Houston) (not sustained/ comprehensive tobacco control program) Select reference areas in other parts of state(comprehensive programs lacking)					-54.0%	

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
fall and spring of 6 th grade, but they may not have begun smoking in fall of 6 th grade, program may have inflated effect Intensive media/ comprehensive community program group had highest baseline prevalence, so	 Location: Texas, USA 14 locations in East Texas and the city of Houston, each location had a population of ~100,000, site 15 was the control area Program scale: Local Implementation date: 1999-2001; spring and fall of 2000 Intervention environment: NR Program funding: ~\$20 mil. From tobacco industry settlement; \$0.50-3.00 annual per capita for intervention communities Program details: Intervention(s) randomly assigned to each site; cessation activities, law enforcement, low or intensive media program, and enhanced school programs; Comprehensive program: with all 4 interventions 2 schools assigned to no program/no media, 2 to no program/low media, 1 to enhanced school/no media, 1 to enhanced school/no media, 1 to enhanced school/low media, 1 to enhanced school/low media, and one to comprehensive program/ intensive media; Comparison: Areas within TX with or without program 	Study period: Spring and fall (Nov/Dec) 2000 Study population: Young adolescents (6 th graders) from 11 middle schools Male: 50% White: 32.6% African Am: 20.1% Asian: 5.4% Other: 5% Hispanic: 6.8%	Tobacco use: any tobacco product (cigarettes, pipes, cigars, or spit tobacco) used in the past 30 days; current tobacco use on ≥1 day of past 30; current cigarette use measured in same fashion	Relative change in tobacco use: No media + No community program: -28.3%	Relative change in tobacco use: Low media + Comp community program: -40.0% Intense media + Comp community program: -60.8%	[95%CI]	The most effective combinations of interventions to reduce tobacco use among 6 th grade students were the intensive mass media combined with comprehensive community programs. Combinations without one or both of these components, or with less- comprehensive versions, were associated with smaller reductions in tobacco use.

Washington Studies

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported Baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Dilley, 2007 Study design: Interrupted time series with concurrent comparison group Quality of execution: Fair	Location: Washington State Program scale: State Implementation date: Fall 2000 Intervention environment: Smoke-free policies, tax increases, retail legislation, ban of tobacco from schools, ban of tobacco possession by young people Program funding: Started in fall of 2000 with \$100mil out of \$320mil of MSA settlement; 2001: program funded at \$17.5mil per year; 2002: with tax increase, funded at \$26.3mil/year; 2005-2007: total: \$26.3mil; per capita: \$4.19 Program details: Community/tribal programs, school education programs, statewide programs, counter-marketing, cessation (programs supporting cessation through health care providers, quitline, ROPC for underserved groups), surveillance and evaluation, administration, tobacco-related disease programs Comparison: WA compared to national trend	school education or less; those aged 18- 29; those living in nonurban zip-code areas; those who were LGB; those	Prevalence, adults and youth: smoker who smoked in past 30 days	Adults: 2001 WA: 22.5% US: 22.7% Youth: 8 th graders Fall 2000 WA: 12.5% Spring 2001 US: 12.2%	2005 WA: 17.6% US: 20.9% Spring 2004 WA: 7.8% Spring 2005 US: 9.3%	Absolute change: -4.9 pct pts -1.8 pct pts DOD: -3.1 pct pts -4.7 pct pts -2.9 pct pts DOD: -1.8 pct pts; NS 10 th grader: WA: -6.8 pct pts US: -6.4 pct pts DOD: -0.4 pp; NS 12 th grader: WA: -7.9 pct pts US: -6.3 pct pts US: -6.3 pct pts DOD: -1.6 pp; NS	From 2000 through 2005, with funding close to CDC recommended level, smoking prevalence in WA declined significantly among both adults and youth (and significantly more than in the nation as a whole)

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported Baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year:	Location: Washington state, US	Study period:	Prevalence:	WA, adults,	WA, adults,	Absolute change:	Both WA and the
Dilley, 2012		Smoking prevalence:	smoking	1999	2009(estimate		US had a
	Program scale: State	data from 1990 to	among adults	(estimated	d from graph:	-7.0 pct pts	reduction in adult
Study design:		2009;		from graph):	15%		prevalence with
Interrupted time	Implementation date:	Cancer diagnosis:		22%			WA showing the
series with	Comprehensive tobacco control	data from 1992 to					greater decline
concurrent	program started in 2000	2007		US, adults,	US, adults,		with exposure to
comparison group		Hospitalization: data		1999	1999		a comprehensive
	Intervention environment:	from 1990 to 2008		(estimated	(estimated		program;
Quality of	Smoke-free policy: state-wide since			from graph):	from graph):		
execution: Fair	December 2005; Multiple cigarette	Study population:		24%	20%	-4.0 pct pts	Among all the
	tax increases in WA:	WA state BRFSS:				DOD:	diseases
	1993 0.20 cents/pack increase	adults				-3.0 pct pts	examined,
study population	1994 0.25 cents/pack increase						tobacco control
	1995 0.25 cents/pack increase	NHIS: non-	Cancer	Ischemic heart			program had the
	1996 0.01 cents/pack increase	institutionalized US	diagnosis and	disease		Coefficient:	most impact on
of sampling	2002 0.60 cents/pack increase	population	hospitalization	hospitalization		-5.93 P=0.14	ischemic heart
methods	2006 0.60 cents/pack increase		: limited to	Cerebrovascul			disease,
0	Description from discons Dentially, from deal		cancers that				cerebrovascular
	Program funding: Partially funded		are at least	ar disease		Coefficient:	disease, and
clearly defined	by a cigarette tax increase after 2002		60% attributable to	hospitalization		-4.05 P=0.04	chronic
Results only	2002		smoking (such	Chronic			respiratory disease
	Program details: Program		as lung,	respiratory			hospitalizations,
coefficient, not	launched in Fall 2000;		bronchus, and	disease		Coefficient:	both with and
	Components recommended by CDC:		trachea	hospitalization		-7.83 P=0.11	without taking
	Statewide media campaign;		cancer; lip,	nospitalization		-7.031 -0.11	the national trend
magnitude of	Tobacco quitline;		oral cavity,	Esophageal			into account
impact	Community and school programs		and pharynx	cancer		Coefficient: -0.34	
mpact	community and school programs		cancer; larynx			P=0.005	
	Comparison: WA state compared to		cancer;				
	the national trend (in the 2nd of 2		esophageal	Larynx cancer		Coefficient: 0.07	
	models)		cancer);	incidence		P=0.52	
			(Model 2 data				
			with national	Oral cancer		Coefficient: 0.13	
			trend shown)	incidence		P=0.45	
			/				

Wisconsin Study

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Bandi, 2006 Study design: Before-after with concurrent comparison Quality of execution: Fair No description of study population; only limited info. of the comprehensive program	Location: Wisconsin (US) Program scale: State Implementation date: : 1999 (but funding and programs start in 2001) Intervention environment: Taxes: October 2001, raised the tax on a pack of cigarettes from \$0.59 to \$0.77 Program funding: In 2000 \$20.8 million per year; \$13 million per year since 2002 Program details: Quit lines	Study period: July 1, 2001- June 30, 2003 Study population: Wisconsin population	Consumption: annual per capita cigarette sales (packs per fiscal year)	78.2	Wisconsin 2003:71.0 US 2003:78.7	Relative change: -9.2% -3.8%	Wisconsin showed reduced tobacco consumption following implementation of its tobacco control program compared to the U.S.
No measure of statistical significance	Media counter marketing Local programs in the form of local tobacco control coalitions Comparison: State compared with US						

US Studies:	Impact of	Increased	Program	Funding/Strength	
			· · · · · · · · · · · · · · · · · · ·		

Study Info	Intervention Characteristics	Population Characteristics		Reported baseline	Reported effect	Value used in summary [95%Cl]	Summary
Author, Year: Adams, 2012	Location: 29 U.S. + NYC Program scale:	Study period: 2000-2005 (some locations [n= 16]	Prevalence: maternal smoking			Regression coefficient:	Funding for comprehensive tobacco control
Study design: Panel	State + City	provided data for entire study period, while others only	prevalence in the 3 months prior to			Real price model: -0.0008, NS Real tax model:	programs was not associated with reduced maternal
Quality of execution:	state and city	provided data for some of the period)	pregnancy			-0.0008, NS	smoking prevalence or
Fair	Intervention environment: Smoke-free policies and excise taxes in some states	Study population: Women with live births between the	Cessation: among women who were smokers			Real price model: -0.0009, NS Real tax model: -0.0008, NS	increased smoking cessation. However, there
	Program funding: NR	years of 2000 and 2005	before pregnancy,			0.0000, 10	was a statistically significant
	Program details: NR Comparison: Level of tobacco	Mean age: 27.3 years	those who stopped smoking by				increase in maintained cessation after
	control funding	Race/ethnicity: 63% of white race	final 3 months of pregnancy				giving birth among women aged >34 years.
			Maintained cessation: women who did not smoke in the final 3			Real price model: -0.0008, NS Real tax model: -0.0007, NS	
			months of pregnancy, or at the time of the postpartum			Among women aged 35+ years: Real price model: 0.01, p<0.05 Real tax model:	
			survey			-0.0098, p<0.05	

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Chattopadhyay, 2011 Study design: Panel study Quality of execution: Fair	Location: 50 states, US Program scale: State-wide; Implementation date: Varies; Intervention environment: Smoke-free policies in effect for most states. Taxes on tobacco products for most states; Program funding: NR; Program details: NR; Comparison: Funding levels from 50 states;	Study period: : 1991 to 2007 Study population: US population age 15–24, age 25 and above; Education: 24.3% college graduate; Std. Dev.: 5.01%; Age: 15-24: 14.3%; Std. Dev.: 1.2%; 25 and above: 64.6%; Std. Dev.: 2.97%; SES: Unemployment sets	Cigarette sales in relation to tobacco control program funding (state- level); state tax-paid cig sales, in mil of packs; Two independent effects: contemporane ous effect; elapsed time			[95%CI]Regression coefficients:Tax based model, cumulative funding: Fixed effects model: -0.0004; NS Random effects model: -0.0003; p<0.01	All else being equal, for every \$mil increase in funding in 1991, there is a corresponding decrease in per-
		Unemployment rate: 5.1%; Std. Dev.: 1.4%; Population (mil): 5.51; Std. Dev.: 6.06;	effect (time since initial control funding during study period);			Fixed effects model: -0.00044; p<0.01 Random effects model: -0.0004; p<0.01	larger and larger effect in reducing cig sales as time passes;

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Ciecierski, 2011 Study design: Panel study Quality of execution: Fair; all panel studies are assigned this grade	Location: States, US Program scale: State Implementation date: CA started in 1989; other states followed Intervention environment: Cigarette tax Clean air laws Program funding: The mean of current expenditures for the full sample is \$0.92 with a standard deviation of \$1.4; For example, funding ranged from \$.01 per capita in TX, TN, and AL, to \$5.89 in MA (1997) Program details: NR Comparison: Expenditure on tobacco control programs from various states in US;	who were in 1-4 years of college; association between state-level expenditures on tobacco control program and a range of individual-level smoking-related behaviors in college students	Past month cigar use prevalence Quit attempt: whether respondents made any attempt to quit smoking in the past 12			Regression coefficient, tobacco outcome in association with lagged tobacco control funding: -0.02 Coefficient: -0.04 Coefficient: -0.06 4.1% increase in likelihood of quit attempt among daily smokers	Doubling of lagged per capita expenditures is associated with 2% decline in the prevalence ; Doubling of lagged per capita expenditures is associated with 3.8% decline in the prevalence (full sample); A doubling of lagged per capita expenditures is associated with a 6.3% decline in prevalence (full sample); Lagged expenditure associated with increased quit attempts in the past year among students who were daily smokers (in state sample);

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Farrelly, 2003 Study design: Panel study Quality of execution: Fair; grade given to all panel studies	 Location: all states US; Program scale: State Implementation date: First program in CA started in 1989; varies by state governments; Intervention environment: Varies by state Program funding: For US: state cigarette excise taxes; voluntary organizations; federal programs; In FY 2000, funding for states ranged from \$0.08 to \$12.69 per capita 3 national programs: ASSIST; IMPACT; SmokeLess States MSA: \$206bil for 46 states over 25 years; MS and FL settled in 1997; MN and TX settled in 1998 Program details: included some or all of the following components: Media campaigns using TV, radio, and/or print; School-based programs to promote smoking cessation and tobacco control policy change; Enforcing existing policies re smoking ban and youth access Comparison: Across US states; also states with comprehensive tobacco control programs (AZ, CA, MA, OR) 	Study period: Data from 1981 to 2000; Study population: Varied based on state;	Consumption: per capita cigarette sales		All states, Current spending as independent variable All states, Lagged spending as independent variable All states, Cumulative spending as independent variable with 5% discount AZ, CA, MA, OR Current spending as independent variable AZ, CA, MA, OR Lagged spending as independent variable AZ, CA, MA, OR Lagged spending as independent variable AZ, CA, MA, OR Lagged spending as independent variable	Regression coefficient: -0.53 Elasticity: -0.0015 Coefficient: -0.69 Elasticity: -0.0016 Coefficient: -0.21 Elasticity: -0.002 Coefficient: -0.42 Elasticity: -0.0090 Coefficient: -0.46 Elasticity: -0.0090 Coefficient: -0.46 Elasticity: -0.0083 Coefficient: -0.29 Elasticity: -0.0225	The elasticities from all of the 50- and 4-state models indicate tobacco control expenditures impact cigarette sales; comparing elasticities across the models shows more established programs may have a larger dollar for dollar impact Current and cumulative expenditures in the 4 states with comprehensive tobacco control programs have a somewhat larger impact on cigarette sales than the corresponding results from all 50 states

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%Cl]	Summary
Author, Year: Farrelly, 2008 Study design: Panel study Quality of execution: Fair; grade given to all panel studies	Program funding: Varies by state Program details: Varies by state Comparison: Tobacco control	Study period: 1985 to 2003 (Smoking prevalence: 1985, 1989, 1992–1993, 1995–1996, 1998– 1999, 2000, 2001– 2002, and 2003) Study population: Each survey of approximately 50,000 HH; persons 15 or older answering questions; Analysis limited to adults 18 or older who responded themselves	Adult smoking prevalence in relation to cumulative state per capita expenditures (Current annual expenditures plus past expenditures, discounted by 10%, 25%, or 50% per year) Adult smoking prevalence: 1985 and 1989: lifetime >100 cigarettes; smoking now Since then: lifetime > 100 cigarettes; smoking now every day or some days		Cumulative spending with 10% discount, overall Age 18-24 Age 25-39 Age \geq 40 Cumulative spending with 25% discount, overall Age 18-24 Age 25-39 Age 240 Cumulative spending with 50% discount, overall Age 18-24 Age 25-39 Age 25-39 Age \geq 40	-0.014 Elasticity: -0.009 Elasticity: -0.015 Elasticity: -0.016	Elasticity: Doubling expenditures would likely lead to a 1.0% to 1.7% decrease in smoking prevalence, with the larger effects associated with smaller discounts Age specific effect: expenditures significantly and consistently associated with declines in smoking prevalence among adults aged 25 to 39 years and among those 40 and older; association only found with cumulative expenditures discounted at 10% for adults 18-24 years

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%Cl]	Summary
Author, Year: Farrelly, 2013 (AJPH) Study design: Panel study Quality of execution: Fair; all panel studies given this grade	 Location: 50 states, US Program scale: State Implementation date: First comprehensive program started in 1989; varies by state Intervention environment: Cigarette prices increased from \$2.62 to \$4.35 from 1997 to 2008, largely due to increases in cigarette excise tax State and local smoke-free air ordinances in workplaces, restaurants, and bars, from 3.8% to 68.6% from 1997 to 2008 Program funding: Average per capita funding for state tobacco programs more than doubled in real terms from \$1.21 in 1997 to \$2.52 in 2008 Program details: NR Comparison: Tobacco control expenditures across states compared to each other 	Study period: 2002-2008 Study population: Civilian, non- institutionalized population 12 years or older; Youth and young adults oversampled, so that each state sample was approximately equally distributed among 3 age groups: 12-17 years; 18-25 years; and 26 years or older	Youth prevalence: smoked cigarettes at least 1 day in the past 30 days Youth prevalence: Established smokers, currently smoking and >100 cigarettes in lifetime Initiation: Initiated smoking in the past year if date of reported 1st cigarette use within 12mon of survey date			_	A doubling of per capita cumulative spending on tobacco control programs would lead to a 4% decrease in both current and established smoking; A doubling of per capita cumulative spending on tobacco control programs would lead to a 6% decrease in past- year initiation

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Farrelly, 2013	Location: US, all 50 states	Study period: NYTS				Middle school	Cumulative per
(JPHMP)		data: 1999, 2000,	between youth			students:	capita tobacco
	Program scale: Varies by location	2002, 2004, and	smoking			OR: 0.93;	control funding
Study design: Panel	Implementation date: Varies by	2006; TUS-CPS data:	prevalence and per capita			P= 0.08	associated with lower odds of
ranei	location	1995, 1996, 1998,	cumulative			Elasticity	middle and high-
Quality of	location	1999, 2001, 2002,	state tobacco			-0.05	school smoking
execution:	Intervention environment: Varies		control			0.00	prevalence.
Fair	by location	National Survey on	funding			High school	However, this
		Drug Use and	ranang			students:	was only
	Program funding: Varies by location	Health: 1999-2000	Youth smoking prevalence:			OR: 0.91 P=0.01	statistically significant among
		Study population:	smoked in the				high school
	Program details: Varies by location		30 days prior			Elasticity	students.
	detail	middle, and high	to survey			-0.05	
		school students in	participation				
	Comparison: Describe if	states surveyed by					
	comparison group reported	the NYTS (12-17					
		year olds) and/or					
		TUS-CPS (25+ year					
		olds) that had some level of tobacco					
		control funding;					
		National Survey on					
		Drug Use and					
		Health: youth at the					
		state-level					
		N= 50,242 students for middle school model; N= 56,287 students for high school model					

Study Info	Intervention Characteristics	Population Characteristics		Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Farrelly, 2014 Study design: Panel study; Quality of execution: Fair; given to all panel studies	Location: US, 50 states; Program scale: State Implementation date: Varies by state Intervention environment: NR Program funding: NR Program details: NR	Study period: 2002-2009 Study population: Civilian, non- institutionalized population 12 or older; This study focused on young adults 18- 25 years old;	Prevalence: Current smokers: smoked during the past 30 days; Prevalence: Established smokers: 100 cigarettes in lifetime, and smoked in			OR=0.992 [95%CI 0.990, 0.994] Elasticity: -0.034 OR=0.992 [95%CI:0.990, 0.995] Elasticity: -0.036	Doubling of cumulative funding for state tobacco control programs would have led to relative decreases in current and established smoking by 3.4% and 3.6% respectively;
	Comparison: Compared tobacco control funding level across 50 states in U.S.		past 30 days Initiation: never smokers who initiated smoking in the past year; date of reported 1st cigarette use within 12mon from date of survey interview			OR=0.994 [95%CI:0.989, 1.0] Elasticity: -0.040	Despite the strong influence of tobacco policies on young adult current and established smoking, there was no association between these policies and past year initiation

Comprehensive Tobacco Control Programs: Effectiveness Review

Study Info	Intervention Characteristics			Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Jemal, 2011 Study design: Panel Quality of execution: Fair	Location: USA Program scale: State Implementation date: Varies by state Intervention environment: NR Program funding: NR Program details: NR Comparison: Varying levels of the Strength Of Tobacco Control (SOTC) index	Study period: 1992/3-2006/7 Study population: U.S. adults ages 18+	Current adult smoking prevalence (smoked every day or some days, and had smoked ≥100 cigs. in lifetime)			Women: r=-0.30 p=0.03 Men: r=-0.21 p=0.14	The relative % changes in smoking prevalence by state were associated with state SOTC indices. States with stronger indices typically showed larger decreases in smoking prevalence. However, this correlation was only statistically significant among women (not men).

Study Info	Intervention Characteristics	Population Characteristics		Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Levy, 2005 Study design: Panel Quality of execution: Fair	 Location: USA, CA, MA, AZ, OR, UT Program scale: State Implementation date: varies by state Intervention environment: vary by state Program funding: NR Program details: Media campaigns used as proxy for comprehensive tobacco control programs; in CA,MA, AZ, OR, and UT Comparison: 5 states with adult- 	Study period: Sep. 1998 – May 1999 Study population: Adults ages 25+ who smoked daily 1 year prior to the survey in the 5 states with media campaigns; (From Tobacco Use Supplement to the Current Population Survey)	quit		Media Campaign: 37.99% Media Campaign: 15.04%	Absolute Difference: 3.6 pct pts Absolute Difference: 3.65 pct pts	States with adult- focused media campaigns had a greater rate of quit attempts vs. states without adult-focused campaigns or with no campaigns States with adult- focused media campaigns had a greater rate of cessation vs. states without adult-focused
	focused media campaign vs those with no or youth-focused media campaign						campaigns or with no campaigns

Study Info Intervention Ch	naracteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
of funding: MSA States can fund t program through or revenues from increases; Federa CDC OSH Nationa program; Private organizations suc Johnson Foundat American Medica Per capita fundim range: \$0.10-20. Per capita fundim range: \$0.33-19. Program details Comparison: Ac Four states with	State n date: Varies, e state nvironment: tax policies; iderably varied ies ng: Several sources funds to states robacco control general revenues nexcise tax al funding, such as al Tobacco Control funding from ch as Robert Wood ion and the I Association g in 2001: \$3.73; 82 g in 2002: \$4.00; 16 s: NR	Study period: Consumption: 2001- 2002; Youth smoking: 2002; Study population: Consumption: smokers in states; Youth smoking: 9- 12 th grade students	Tobacco consumption: Per Capita cigarette sales in association with tobacco control funding Youth smoking prevalence: students from 9 th to 12 th grades who smoked in past 30 days preceding the survey			50 states: Elasticity: 0.002; NS 4 states with comprehensive program (AZ, CA, MA, OR): Elasticity: -0.052; p<0.01 Regression coefficient: 0.22* Elasticity: 0.020 *Data from model that used current + one lagged year expenditures	Per capita tobacco control funding for all 50 states had no significant relationship with cigarette sales Per capita tobacco control in 4 states with comprehensive tobacco control programs had negative and significant impact on cigarette sales Tobacco control spending was not associated with lowered youth smoking

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Morley, 2013 Study design: Cross-sectional Quality of execution: Fair No description of study population or intervention characteristics Cross-sectional study with only 1 year of data used; difficult to assess relationship between program funding and impact on tobacco use Funding for all tobacco control activities used as proxy for spending on comprehensive tobacco control programs; not all states have such programs		Study period: 2010 Study population: US adults living in states that had tobacco control funding who responded to the BRFSS survey	Adult smoking prevalence in relation to: Tobacco funding, in millions % of CDC- recommended funding level in place	N/A	N/A	Adult smoking prevalence in relation to tobacco control raw spending (in millions) Beta-coefficient: 035 (P= 0.176) For every million dollar spent on tobacco control, there is a corresponding 0.035% drop in adult smoking prevalence % of CDC- recommended funding level in place Beta-coefficient: .012(P=0.620)	There was no statistically significant association between raw tobacco control spending and adult smoking prevalence, nor is the level of CDC- recommended funding present The percentage of state funding for tobacco control, relative to CDC- recommended level for each state, was strongly and negatively influenced by tobacco manufacturing, with tobacco- manufacturing states spending nearly 30 percentage points less of the CDC- recommended amount than non-tobacco- manufacturing states

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Rhoads, 2012 Study design: Panel Study Quality of execution: Fair	1989; Intervention environment: NR Program funding: CA from 1988 increase in cigarette excise tax; Other states in 1990s, used excise tax, MSA, ASSIST, IMPACT, CDC's National Tobacco Control Program (NTCP), private funding (RWJF, ALF); CDC Best Practices recommended	from 50 states and D.C. were analyzed; Sample from 1991- 2006: 2,491,805 adults; Male: 49.4%; Age, mean: 44.4 Education:		N/A	N/A	Prevalence: Regression coefficient: - 0.006, p<0.01** Elasticity: -0.009 Consumption: Regression coefficient: - 0.0135*, p<.01 Regression coefficient: - 0.0145**, p<.01 *Cumulative funding, 10% discount for past years' funding **Cumulative funding, 25% discount for past years' funding	State tobacco control expenditures have a consistently negative and statistically significant effect on smoking prevalence, when either current or cumulative tobacco control expenditures were used as independent variable Cumulative comprehensive tobacco control expenditures have an negative effect on average cigarette consumption

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Tauras, 2005 Study design: Panel Study Quality of execution: Fair	 Location: 50 states, USA Program scale: State-wide Implementation date: Various, CA started 1989 Intervention environment: NR Program funding: Tobacco excise tax; MSA; ASSIST and IMPACT, both replaced by CDC funded National Tobacco Control Program; RWJF's SmokeLess States program; In 2002, funding estimated to be \$861.9mil, or \$3.16 per capita; Program details: States the 4 goals from CDC Best Practices; and the components Comparison: State tobacco control expenditures compared across all states in U.S.; 	and 12th grade Monitoring the Future criteria: Nationally representative	Prevalence: smoking among 8 th , 10 th , and 12 th graders; youth who smoked cigarettes in the past 30 days; Consumption: average monthly cigarette consumption among smokers;			[95%CI]Compared to no funding, mean levels of funding reducing smoking prevalence by 0.46 pct ptsIf funding increases to minimum level recommended by CDC, smoking prevalence would reduce by 3.52 pct ptsRegression coefficient: - 0.0339(Note: Authors used annual inflation adjusted per capita expenditures in regression models)	Increased tobacco control funding to match the CDC guidelines would have a substantial impact on youth smoking prevalence. After controlling for the other potential determinants of youth cigarette demand, real per capita tobacco control expenditures had a negative and statistically significant relationship with the amount smoked by smokers.

Non-US Studies

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Currie, 2013 Study design: Interrupted time- series Quality of execution: Fair	Location: Ireland Program scale: National Implementation date: Official start date NR; components reported in the study were implemented from 1998 to at least 2008 Intervention environment: Smoke-free policies, tobacco taxes, tobacco marketing/ advertising bans, increased strength of health warnings, ban on tobacco sales to minors Program funding: NR Program details: Quitline, Mass- media campaign, increased availability of smoking cessation services Comparison: Before-after for SLÁN survey, post-only for OTS Survey	Study period: 1998-2010 Study population: SLÁN: nationally representative random sample of Irish population, ages 18+ years OTC surveys were monthly telephone interviews with 1000 persons (but 2007 survey was in- person)	Smoking prevalence (≥1 cigarette smoked in past week for OTS surveys) Current smokers smoked cigarettes occasionally (<1/day) or regularly for 1998 and 2002 SLÁN surveys; for 2007 survey, current smokers smoked ≥100 cigarettes in lifetime and now smoke every day or some days	SLÁN survey Males 1998: 34.1% Females 1998: 32.5% OTC Survey, June 2003: 30.0%	SLÁN survey Males 2007: 30.6% Females 2007: 26.5% OTC Survey, March 2008 23.6%	Absolute difference -3.5 pct. pts. -6.0 pct. pts. -6.4 pct. pts.	Overall decrease in smoking prevalence in both surveys, but not always consistently

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Germain 2012;	Location: Victoria, Australia;	Study period: 1984 to 2008;	Adult smoking prevalence	1984 Overall:	2008	Absolute change:	The likelihood a Victorian adult
Study design:	Program scale: State, mixed in with national program;	Study population:		33.2%	15.5%	-17.7 pct pts	was a regular smoker in 1984
Least;	Implementation date: Started in	Randomly sampled Victorian adults;			17.1%	-20.0 pct pts	was almost three times that of
Quality of execution: Good;	1985; Intervention environment:	Sample sizes ranged from low of 1151		Females: 29.6%	14.0%	-15.6 pct pts	someone in 2008; driven by both an increase
	Program funding: Tobacco Act (Vic) 1987: tobacco tax revenue	(1984) to a high of 4494 (2008);		Low SES: 38.1%	19.2%	-18.9 pct pts	in the proportion of ever smokers who have successfully quit, and an overall decline in those
	began to be used for tobacco control;			Mid SES: 29.3%	5.9%	-23.4 pct pts	
	Program details: Quit Victoria: founded in 1985;			High SES: 27.0%	11.0%	-16.0 pct pts	who have ever smoked;
	Mass-media, Vic: began around the time of establishment in conjunction with introduction of telephone		Cessation: quit ratio	Overall: 39.8%	63.8%	24.0 pct pts	Smoking prevalence declined
	support service Quitline;			Males: 43.4%	63.3%	19.9 pct pts	significantly across all
	Mass-media, national: Every Cigarette is Doing You Damage; came to Vic screen b/w 97 and 00;			Females: 34.9%	64.4%	29.5 pct pts	socioeconomic groups over the past 25 years, although at a greater rate among the higher
	Quitline;			Low SES: 34.1%	59.7%	25.6 pct pts	
	Comparison: Before-after;			Mid SES: 46.2%	63.2%	17.0 pct pts	SES group; lower SES group had the greatest rate
				High SES: 46.4%	69.7%	23.3 pct pts	of decline in ever smoking over this period compared to more advantaged groups

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year:	Location: France	Study period: 1999	Smoking	1999	2005	Absolute change:	Smoking
Launay, 2010		and 2005	1	Males: 25.7%	Males: 18.2%	-7.5pct pts	prevalence and
	Program scale: National		Current				tobacco
Study design:		3 1 1		Females:	Females:		consumption
Before-After	Implementation date: 1999-2008	Teachers aged 25-59		20.0%	16.5%	-3.5 pct pts	among male and
Overline of			regularly or				female teachers
Quality of execution:	Intervention environment:		occasionally				decreased over
Fair	Smoke free laws in public places and school grounds; Cigarettes price	survey was conducted	Ex-smokers:	Male ex-	Male ex-		the study period, There was also an
Fall	increases; Tobacco advertising ban	CONDUCTED	declared not	smokers,	smokers,		increase in the
Survey mailed to	increases, robacco advertising barr		currently	>5yrs: 29.9%	>5yrs: 21.3%	-8.6 pct pts	number of ex-
	Program funding: NR		smoking but	> 0 yr 3. 27.770	> 0 yr 3. 21.070	0.0 per pro	smokers in more
of people for the			smoked at	<5yrs: 5.8%	<5yrs: 8.4%	+2.6 pct pts	recent years.
	Program details: Funding for		some point in			- 1 1	Jan
	NGOs, strong mass media		life	Female ex-	Female ex-		
larger	campaigns, internal regulations			smokers,	smokers,		
	adopted on Smoke free public places			>5yrs: 23.3%	>5yrs: 18.9%	-4.4 pct pts	
Measurement	to protects children, teenagers,						
	students and school teachers,			<5yrs: 4.0%	<5yrs: 6.4%	+2.4 pct pts	
	training program for general						
	practitioners and pharmacists,			Males:	Males:		
	financial support to implement		consumption	1999: daily tobacco	2005: daily tobacco		
waves	smoking cessation services, Sale of NRT over the counter in pharmacies,		for smokers, (pipe, cigar,	consumption:	consumption:	Relative change:	
Substantial	development of cessation services		cigarillos	≤10: 152	≤10: 97	≤10: -36.2%	
differences in	and adoption of more prominent			11-20: 109	11-20: 61	11-20: -44.0%	
education levels	warnings		cigarettes/day)		>20: 10	>20: -82.0%	
among subjects							
between the first	Comparison: Before-After			Females:	Females:		
and second waves				1999: daily	2005: daily		
				tobacco	tobacco	Relative	
				consumption:	consumption:	difference:	
				≤10: 185	≤10: 202	≤10: +9.2%	
				11-20: 113	11-20: 107	11-20: -5.3%	
				>20: 32	>20: 13	>20: -59.4%	
						l	

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year:	Location: Canada	Study period:	Smoking	1999	2006	Absolute change:	Between 1999
Reid, 2010		1999-2006	prevalence	24%	18%	-6 pct pts	and 2006,
	Program scale: National						smoking
Study design: Interrupted time-	Implementation date: National	Study population: Nationally	Odds of being a smoker,	<secondary: 2.95</secondary: 	3.79		prevalence and
series	strategy established in 1999; not	representative	stratified by	2.95 (2.24-3.88)	3.79 (2.81-5.11)		average daily cigarette
361163	clear on timing of policies and each	samples of	education	(2.24-3.00)	(2.01-5.11)		consumption
Quality of	component; in 2001 \$560M was	Canadians aged 15	level, OR	Completed			declined with
execution:	allocated for the first five years of	and over; excluded	(95% CI)	secondary			similar magnitude
Good	the Federal Tobacco Control	residents of the	、 <i>,</i>	1.92	2.62		in all educational
	Strategy (FTCS)	territories and		(1.49-2.46)	(2.07-3.31)		groups. Nearly
No description of		institutions;					half of all
program	Intervention environment: Tax	equal number of		Completed			smokers had
	increase; smoke-free policies;	respondents in each		college			made a quit
	Tobacco Act (1997) implemented to	province surveyed;		1.26	1.96		attempt lasting at
	regulate manufacturing, sale,	youth 15 to 24 years		(0.94-1.71)	(1.48-2.59)		least 24 hours in
	labelling and promotion of tobacco products in Canada	of age over-sampled to comprise half of		Completed			the past year
		the respondents;		university			However, among
	Program funding: Written into	analyses included		Ref	Ref		smokers, those
							with lower
	provide adequate funding for	years of age;	Daily average	16.4 cigs./	13.6 cigs./	Relative change:	education were
	tobacco control initiatives; in 2001	n=86,971	# of cigarettes	day	day	-17.1%	more likely to
	\$560M was allocated for the first		smoked				smoke daily, and
	five years of the Federal Tobacco						the least
	Control Strategy (FTCS)		Cessation:	Education:			educated
			0	Less than			consumed 3 to 8
	Program details: 4 goals:		ever-smokers	secondary	(2 70/	11.1	more cigarettes
	prevention; cessation; protection from SHS; de-normalization		who quit by time of survey	52.6%	63.7%	11.1 pp	per day, on average, than the
	ITOTTI SHS, de-normalization		(number of	Completed			most educated.
	Media; cessation (quitline formed		former	secondary	60.6%	8.0 pp	most educated.
	later); youth oriented programs		smokers	52.6%	00.070	0.0 pp	
	through settings such as schools,		divided by	02.070			
	youth groups, etc.		number of	Completed	62.6%	7.0 pp	
			current and	college			
	Comparison: Canadian data;		former	55.6%			
	people with different education		smokers at a		69.4%	7.6 pp	
	levels were compared with each		given point in	Completed			
	other		time)	university			
				61.7%			

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%CI]	Summary
Author, Year: Schaap 2008	Location: 18 European countries (see Table 1)	Study period: 2005 (with the Tobacco Control Scale)	Cessation in association with Tobacco			High education group coefficient: 0.65, p=.004	For every 10 pts increase in Tobacco Control
Study design: Panel study	Program scale: National	Survey dates: 1994 -2004	Control Scale in the 18 EU countries			Low education group coefficient:	Score the evidence shows an increase in
Quality of execution: Fair	depend on country	Study population: Ever-smokers from	countries			0.57, p=.014	cessation by 6.5% and 5.7%
	Intervention environment: NR Program funding: NR	the 18 participating countries who are 25-59 years old with				Males, coefficient: 0.47, 95%CI 0.19 to	in groups with high and low education,
	Program details: Used Tobacco	sample sizes of above 4500 for most				0.75	respectively.
	Control Scale, an index rating countries' level of implementation of tobacco control programs in 2004- 2005	countries Samples form National health				Females, coefficient: 0.45, 95%CI 0.13 to 0.77	For every 10 pts increase in the Tobacco Control Score, there was
	Based on 6 policies described by the World Bank using a 100 point scale for potential impact on national smoking rates: Price (30pts); public place bans (22pts); public information campaign spending (15pts); advertising bans (13pts); health warnings (10pts); treatment (10pts)	surveys of the 18 European countries were conducted in or after 2000, except the German and Portuguese surveys					an increase in cessation among both the male and female cohort
	Comparison: Across 18 European countries						

Study Info	Intervention Characteristics	Population Characteristics	Effect measure	Reported baseline	Reported effect	Value used in summary [95%Cl]	Summary
Interrupted time series Quality of execution: Fair Population for 16/17 year olds changed due to higher retention rates in high school; unclear if	Location: Australia Program scale: Phase 1 and 2: state and territory, Phase 3: nation Implementation date: Phase 1: 1984-91; Phase 2: 1993- 96; Phase 3: 1997-05; Intervention environment: Phase 1, 84-91: policies to restrict promotion of tobacco products; minimal health warnings on all tobacco products; workplace smoking bans in certain places Phase 2, 92-96: few new policies adopted Phase 3, 97-05: more restrictions on youth access; smoking bans in public spaces; price increase	Study period: White 2008: 1987 to 2005; White 2011: 1990 to 2005; Study population: White 2008: Table 1: number of participants each survey year; School retention rate increased from 53% in 1987 to 75% in 2002 and 2005; characteristics of students likely to differ systematically across survey years; White 2011: Table 2	Tobacco use prevalence: Smoked within past week: 12- 17yr olds Tobacco use prevalence stratified by SES; Smoked within past 30 days:	1996: 20% 12-15yr olds: Lowest SES, 1996: 23.0% Second SES, 1996: 20.0% Third SES, 1996: 20.0% Highest SES, 1996: 21.0% 16-17yr olds: Lowest SES,	2005: 9% 12-15yr olds: Lowest SES, 2005: 11.0% Second SES, 2005: 10.0% Third SES, 2005: 8.0% Highest SES, 2005: 8.0% 16-17yr olds: Lowest SES,		There was a significant and substantial reduction in the likelihood of smoking among all SES groups for older and younger students; for younger students the reductions differed by SES with reductions in all smoking behaviors greater for students from higher SES groups
that change has been adequately controlled by the authors National tobacco control expenditure estimated from 02 to 05 using funding for mass	 Program funding: Phase 1: peak of \$AUD 0.90 per capita in 1989/90; Phase 2: funding levels fell to a low of \$AUD 0.34 per capita in 1993; Phase 3: funding level increased to \$AUD 0.54 per capita in 1998; Program details: Phase 1: 1984-1991, state-specific tobacco control campaigns; Phase 2: 1992-96, state activities fell due to funding falls; Phase 3: 1997-2005, broad population approach to tobacco control with media campaigns, quitlines Comparison: No comparison 	for age, education, and sex;		1996: 32.0% Second SES, 1996: 33.0% Third SES, 1996: 37.0% Highest SES, 1996: 37.0%	2005: 21.0% Second SES, 2005: 22.0% Third SES, 2005: 23.0% Highest SES, 2005: 21.0%	-11.0 pct pts -11.0 pct pts -14.0 pct pts -16.0 pct pts	