Appendix D

COMPREHENSIVE TOBACCO PREVENTION AND CESSATION PROGRAMS EFFECTIVELY REDUCE TOBACCO USE

Tobacco control programs play a crucial role in the prevention of many chronic conditions such as cancer, heart disease, and respiratory illness. Comprehensive tobacco prevention and cessation programs prevent kids from starting to smoke, help adult smokers quit, educate the public, the media and policymakers about policies that reduce tobacco use, address disparities, and serve as a counter to the ever-present tobacco industry.

Recommendations for state tobacco prevention and cessation programs are best summarized in the Center for Disease Control and Prevention’s (CDC) *Best Practices for Comprehensive Tobacco Control Programs*. In this guidance document, CDC recommends that states establish tobacco control programs that are comprehensive, sustainable, and accountable and include state and community interventions, public education interventions, cessation programs, surveillance and evaluation and administration and management.1

The empirical evidence regarding the effectiveness of comprehensive tobacco prevention and cessation programs is vast and growing. There is more evidence than ever before that tobacco prevention and cessation programs work to reduce smoking, save lives and save money. In 2007, the Institute of Medicine and the President’s Cancer Panel issued landmark reports that concluded there is overwhelming evidence that state comprehensive state tobacco control programs substantially reduce tobacco use and recommended that every state fund such programs at CDC-recommended levels.2 In addition, the 2012 annual report to the nation on cancer found that death rates from lung cancer have dropped among women and attributed this decline to "strong, long-running, comprehensive tobacco control programs."3

Data from numerous states that have implemented programs consistent with CDC guidelines show significant reductions in youth and adult smoking. The most powerful evidence, however, comes from national studies that look across states and control for as many of the relevant confounding factors as possible. These rigorous studies consistently show effects of tobacco prevention and cessation programs.

A study published in the *American Journal of Public Health*, examined state tobacco prevention and cessation funding levels from 1995 to 2003 and found that the more states spent on these programs, the larger the declines they achieved in adult smoking, even when controlling for other factors such as increased tobacco prices. The researchers also calculated that if every state had funded their programs at the levels recommended by the CDC during that period, there would have been between 2.2 million and 7.1 million fewer smokers in the United States by 2003.4 The Campaign for Tobacco-Free Kids estimates that such smoking declines would have saved between 700,000 and 2.2 million lives as well as between $20 billion and $67 billion in health care costs.

A 2003 study published in the *Journal of Health Economics* found that states with the best funded and most sustained tobacco prevention programs during the 1990s – Arizona, California, Massachusetts and Oregon – reduced cigarette sales more than twice as much as the country as a whole (43 percent compared to 20 percent). This study, the first to compare cigarette sales data from all the states and to isolate the impact of tobacco control program expenditures from other factors that affect cigarette sales, demonstrates that the more states spend on tobacco prevention, the greater the reductions in smoking.
and the longer states invest in such programs, the larger the impact. The study concludes that cigarette sales would have declined by 18 percent instead of nine percent between 1994 and 2000 had all states fully funded tobacco prevention programs.\textsuperscript{6}

A 2006 study published in the \textit{American Journal of Health Promotion} provides further evidence of the effectiveness of comprehensive tobacco control programs and tobacco control policies. The study’s findings suggest that well-funded tobacco control programs combined with strong tobacco control policies increase cessation rates. Quit rates in communities that experienced both policy and programmatic interventions were higher than quit rates in communities that had only experienced policy interventions (excise tax increases or secondhand smoke regulations). This finding supports the claim that state-based tobacco control programs can accelerate adult cessation rates in the population and have an effect beyond that predicted by tobacco-control policies alone.\textsuperscript{7}

Data from numerous states provide additional evidence of the effectiveness of comprehensive tobacco prevention and cessation programs. States that have implemented comprehensive programs have achieved significant reductions in tobacco use among both adults and youth. The experiences in states from around the country who have invested in comprehensive prevention programs establish the following key points:

- When adequately funded, comprehensive state tobacco prevention programs quickly and substantially reduce tobacco use, save lives, and cut smoking-caused costs.

- State tobacco prevention programs must be insulated against the inevitable attempts by the tobacco industry to reduce program funding and otherwise interfere with the programs’ successful operation.

- The programs’ funding must be sustained over time both to protect initial tobacco use reductions and to achieve further cuts.

- When program funding is cut, progress in reducing tobacco use erodes, and the state suffers from higher levels of smoking and more smoking-caused deaths, disease, and costs.

Unfortunately, many states faced with budget difficulties have recently made the penny-wise but pound-foolish decision to slash the funding of even the most effective tobacco control programs, which will cost lives and money.\textsuperscript{*}

**Program Success – California**

In 1988, California voters approved Proposition 99, a ballot initiative that increased state cigarette taxes by 25 cents per pack, with 20 percent of the new revenues (over $100 million per year) earmarked for health education against tobacco use. California launched its new Tobacco Control Program in Spring 1990. Despite increased levels of tobacco marketing and promotion, a major cigarette price cut in 1993, tobacco company interference with the program, and periodic cuts in funding, the program has still reduced tobacco use and its attendant devastation substantially.

- California’s comprehensive approach has reduced adult smoking significantly. Adult smoking declined by 47.5 percent from 1988 to 2010, from 22.7 percent to 11.9 percent.\textsuperscript{8} If every state had California’s current smoking rate, there would be more than 17 million fewer smokers in the United States.

- Between 2000 and 2010, smoking prevalence among high school students decreased by 36 percent, from 21.6 percent to 13.8 percent.\textsuperscript{9}

- A recent study in the \textit{Journal of the American Medical Association} demonstrates that California reduced overall smoking and high intensity smoking much faster than the rest of the country.

\textsuperscript{*} This factsheet focuses on the extensive public health benefits obtained by state tobacco prevention programs. Other Campaign factsheets show that these programs also reduce smoking-caused costs, including those incurred by state Medicaid programs. See, e.g., TFK Factsheet, \textit{Comprehensive Statewide Tobacco-Prevention Programs Save Money}, \url{http://tobaccofreekids.org/research/factsheets/pdf/0168.pdf}.  

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Researchers suggest that the Tobacco Control Program’s focus on changing social norms has both reduced initiation and increased cessation.¹⁰

- Between Fiscal Year 1989-90 and Fiscal Year 2006-07, per capita cigarette consumption in California declined by 61 percent, compared to just 41 percent for the country as a whole, during this same time period.¹¹ Even after the tobacco industry’s successful efforts to reduce the state’s tobacco prevention funding, cigarette consumption still declined more in California than in the rest of the country.¹²

- In the 10 years following the passage of Proposition 99, adult smoking in California declined at twice the rate it declined in the previous decade.¹³

- Between 1988 and 2004, lung and bronchus cancer rates in California declined nearly four times faster than the rest of the U.S.¹⁴ Researchers have associated the declines in lung cancer rates with the efforts of California’s program.¹⁵

- A study published in the American Journal of Public Health found that the California anti-tobacco media campaign reduced sales of cigarettes by 232 million packs between the third quarter of 1990 and the fourth quarter of 1992. This reduction was independent of the decreases in consumption brought about by the tax increase.¹⁶

The California tobacco control program produced much larger smoking reductions in the early years, when it was funded at its highest levels, than during subsequent years, when the state cut its funding. For example, when California cut the program’s funding in the mid 1990s, its progress in reducing adult and youth smoking rates stalled, but it got back on track when program funding was partially restored.¹⁷

**Program Success – New York**

New York began implementing a comprehensive state tobacco control program in 2000 with funds from the Master Settlement Agreement and revenue from the state cigarette tax. As the data below demonstrate, New York’s comprehensive approach is working. While declines in youth smoking nationally have slowed, New York’s rates continue to decline steadily. New York has also seen a decline in adult smoking, some of which is the result of the state’s success in preventing youth from starting to smoke.

- Between 2000 and 2010, smoking among middle school students declined by 68.6 percent, (from 10.2% to 3.2%), and smoking among high school students declined by 53.5 percent, (from 27.1% to 12.6%). These declines translate into more than 168,000 fewer youth smokers in the state.¹⁸

- Between 2000 and 2009, adult smoking declined by 16 percent among all adults, from 21.6 percent to 18.0 percent, and by 30 percent among young adults, from 33 percent to 23.1 percent. The New York State Department of Health estimates that approximately 35 percent of the total decline in adult smoking is attributable to youth prevention strategies and that the significant reduction in smoking among young adults will reduce future health care costs by approximately $5 billion.¹⁹

- More recent data indicate that New York is continuing to make progress in reducing adult smoking rates. According to the Behavioral Risk Factor Surveillance System, in 2010, adult smoking in New York was down to 15.5 percent.²⁰

**Program Success – Washington**

The Washington State Tobacco Prevention and Control program was implemented in 1999 after the state Legislature set aside money from the Master Settlement Agreement to create a Tobacco Prevention and Control Account. Tobacco prevention and control received additional funds in 2001 when the state’s voters passed a cigarette tax increase that dedicated a portion of the new revenue to tobacco prevention and cessation.
Since the tobacco control program was implemented, Washington has reduced the adult smoking rate by about one-third, from 22.4 percent in 1999 to 15.2 percent in 2010. Washington's tobacco prevention efforts have also cut youth smoking rates in half, saving additional lives and dollars.

According to a recent study, Washington's comprehensive program is working and is not only responsible for fewer Washingtonians suffering and dying from tobacco-related diseases, but also saving money by reducing tobacco-related health care costs. According to the new study, the state's comprehensive tobacco prevention and cessation program has prevented 13,000 premature deaths and nearly 36,000 hospitalizations, saving about $1.5 billion in health care costs. The study found that for every dollar spent by the state on tobacco prevention in the last ten years, the state saved more than $5 in reduced hospitalization costs.

An earlier study in CDC's peer-reviewed journal, Preventing Chronic Disease, found that although Washington made progress in implementing tobacco control policies between 1990 and 2000, smoking prevalence did not decline significantly until after substantial investment was made in the state's comprehensive tobacco control program.

**Program Success – Maine**

In 1997, Maine increased its cigarette excise tax and used a portion of those funds to establish a comprehensive tobacco prevention program known as the Partnership for a Tobacco-Free Maine. Maine has subsequently augmented its program with proceeds from the 1998 state tobacco settlement, which also resulted in a further increase in cigarette prices (the state also raised cigarette taxes again in 2001, to $1.00 per pack, and in 2005 to $2.00 per pack). Prior to launching this effort, Maine had one of the highest youth smoking rates in the country.

- Smoking among Maine’s high school students declined a dramatic 61 percent between 1997 and 2011, falling from 39.2 percent to 15.2 percent. (Nationally, smoking among high school students declined by 50% over this same time period.)

**Program Success – North Dakota**

On November 4, 2008, North Dakota voters approved a ballot measure to allocate some of the state's tobacco settlement to the state's tobacco prevention and cessation program at the CDC-recommended level. Since the program was implemented with higher funding levels, North Dakota has reduced tobacco use among both children and adults.

- In just two years, from 2009 to 2011, smoking among North Dakota's high school students fell 13.5 percent, from 22.4 percent to 19.4 percent. Adult smoking declined over a short time period as well, from 18.6 percent in 2009 to 17.4 percent in 2010.

**Program Success – Indiana**

In 2000, Indiana implemented a comprehensive tobacco prevention and cessation program with revenue received from the state’s tobacco settlement. Indiana’s program is modeled after other comprehensive programs that have been successful in reducing tobacco use. Indiana’s program includes public education efforts, a counter-marketing campaign, community and school-based programs, and enforcement initiatives.

- Between 2000 and 2010, smoking among high school students declined by 45 percent (from 31.6% to 17.5%).

- Smoking among middle school students declined by 58 percent, from 9.8 percent to 4.1 percent, over this same time period.

**Program Success – Massachusetts**
In 1992, Massachusetts voters approved a referendum that increased the state cigarette tax by 25 cents per pack. Part of the new tax revenues was used to fund the Massachusetts Tobacco Control Program (MTCP), which began in 1993. As in California, the program achieved considerable success until its funding was cut by more than 90 percent in 2003. Data demonstrate that the program was successful in reducing tobacco use among both children and adults.

- Massachusetts cigarette consumption declined by 36 percent between 1992 and 2000, compared to a decrease of just 16 percent in the rest of the country (excluding California).  

- From 1995 to 2001, current smoking among Massachusetts high school students dropped by 27 percent (from 35.7 percent to 26 percent), while the nationwide rate dropped by 18 percent (34.8 percent to 28.5 percent).

- Between 1993 and 2000, adult smoking prevalence dropped from 22.6 percent to 17.9 percent, resulting in 228,000 fewer smokers. Nationally, smoking prevalence dropped by just seven percent over this same time period.

- Between 1990 and 1999, smoking among pregnant women in Massachusetts declined by more than 50 percent (from 25 percent to 11 percent). Massachusetts had the greatest percentage decrease of any state over the time period (the District of Columbia had a greater percent decline).

Despite the considerable success achieved in Massachusetts, funding for the state’s tobacco prevention and cessation program was cut by 95 percent – from a high of approximately $54 million per year to just $2.5 million in FY2004, although funding for the program has increased slightly in recent years. These drastic reductions in the state’s investments to prevent and reduce tobacco use will translate directly into higher smoking rates, especially among kids, and more smoking-caused disease, death, and costs. In fact, a study released by the Massachusetts Association of Health Boards shows that the Massachusetts program funding cuts have already been followed by an alarming increase in illegal sales of tobacco products to children.

- Between 2002 and 2003, cigarette sales to minors increased by 74 percent, from eight percent to 13.9 percent in communities that lost a significant portion of their enforcement funding.

- Over the same time period, cigarette sales to minors increased by 98 percent in communities that lost all of their local enforcement funding.

- Between 1992 and 2003, per capita cigarette consumption declined at a higher rate in Massachusetts as it did in the country as a whole (47 percent v. 28 percent). However, from 2003 to 2006, Massachusetts’ per capita cigarette consumption declined a mere seven percent (from 47.5 to 44.1 packs per capita), while the U.S. average cigarette consumption declined by ten percent (from 67.9 to 61.1 packs per capita). Most recently, between 2005 and 2006, Massachusetts’ per capita cigarette consumption increased by 3.2 percent (from 42.7 to 44.1 packs per capita), while nationwide, per capita consumption declined by 3.5 percent (from 63.3 to 61.1 packs per capita).

Campaign for Tobacco-Free Kids, October 15, 2012 / Meg Riordan

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*California’s Tobacco Control Program: Preventing Tobacco Related Disease and Death; Tobacco Control Section, California Department of Health Services, April 3, 1998.*


CDC, Behavioral Risk Factor Surveillance System (BRFSS).


*Massachusetts Youth Risk Behavior Survey 2001; National Youth Risk Behavior Survey.*


http://www.mahb.org/tobacco/sales%20to%20minors%20study%20abstract.pdf

Data from Orzechowski & Walker, Tax Burden on Tobacco 2006 [an industry-funded report]. Per capita cigarette consumption is measured as per capita cigarette pack sales.