INTRODUCTION

There are two unique features of community-wide interventions that distinguish them from other types of tobacco control strategies. First, community interventions attempt to change tobacco use in populations, not just in individuals or select target groups (NCI, 1991). Community-wide interventions for tobacco control operate on the premise that tobacco use is driven by societal attitudes that accept tobacco use and that efforts to reduce tobacco use require changing these attitudes. The second unique feature of community-wide interventions is that they are comprehensive in nature, involving attempts to intervene through multiple social structures in a community (NCI, 1991). This feature of community-wide interventions acknowledges the fact that attitudes about tobacco use are shaped by many different sources, including one’s family, workplace, educational and health care institutions, and the media, just to name a few.

ARE THESE ASSUMPTIONS CORRECT?

What evidence is available to support the premise that tobacco use is a socially mediated practice that can be altered by changing social customs that support the behavior? First, it is a well accepted tenet of social psychology that humans are subject to a need to conform to the social conventions of the majority (Wrightman, 1977). To the extent that individuals perceive their actions as deviant, there will be pressure to conform to the dominant public opinion.

Second, the history of tobacco use in United States seems to mirror shifts in public attitudes about smoking, reflecting increasing social sanctions on smoking in the early part of the century and then growing disapproval of smoking as a practice dangerous to the smoker and later to others (Warner, 1986).

Third, even the tobacco industry recognizes that besides nicotine delivery, smoking behavior is mediated by social influences, as evidenced by the following explanation offered by a Philip Morris scientist on changing trends in teenage smoking prevalence:

“There is no question but that peer pressure is important in influencing the young not to begin smoking. A decade or more ago it was a major reason why teenagers began to smoke. Now it is a major reason for their not beginning to smoke?” (Philip Morris, Inc, 1981)

Because the norms of society are in large part prescribed through public sources, such as the media, they are subject to the influences of special interest groups. Viewed in this light, tobacco advertising can be thought of as an effort to create demand for tobacco products by influencing the pub-
lic’s perceptions about the benefits of tobacco use. As marketing professor Richard Pollay points out: “...to smokers advertising is a reminder and reinforcer, while to the non-smoker it is a temptation and a teacher” (Pollay, 1995).

While the mass media has been used to increase the demand for tobacco, it has also been used to discourage the use of tobacco, as evidenced during the Fairness Doctrine period when anti-smoking television commercials were aired on a regular basis during prime time and cigarette consumption dropped sharply (U.S.DHHS, 1989). Thus, it appears that despite the addictive qualities of tobacco, tobacco use behavior is strongly influenced by the social conventions, customs, and norms of society and is subject to changes in the social environment.

DO COMMUNITY-WIDE INTERVENTIONS WORK?  The scientific literature clearly demonstrates the limited effect of individually focused, single-channel interventions in terms of influencing tobacco use throughout populations (U.S.DHHS, 1989; Klausner, 1997). Perhaps with the exception of nicotine replacement products, those programs with substantial efficacy, particularly clinic-based cessation programs, have not been widely accepted by smokers. By offering a comprehensive intervention that operates through multiple channels in a community, it is hoped that a synergy will be produced whereby the social norms undercutting tobacco will spread throughout the population at a faster pace than would otherwise be the case. Community-wide tobacco control interventions often have little to do with providing direct services to individual tobacco users, but instead focus attention on employers, health providers, politicians, and community leaders who are in positions to implement policies that help define the social norms about tobacco use in the population at large (NCI, 1991).

What evidence is there that community-wide tobacco control interventions work? In recent years, we have seen a number of well-conducted, large-scale evaluations of community-wide interventions to reduce tobacco use. Although a few of these showed a degree of success, for most, the effects have been small and certainly less than predicted given the effort expended. For example, the Stanford Five-City Project reported a small treatment effect on quitting behavior, but no effect on smoking prevalence (Fortmann et al., 1993). The Minnesota Heart Health Program reported a modest beneficial effect for women in their cross-sectional analysis, but no effect in their cohort sample (Leupker et al., 1994). The Pawtucket Heart Health Program failed to demonstrate a significant intervention effect for smoking in any of their analyses (Carlton et al., 1994). The NCI’s Community Intervention Trial for Smoking Cessation (COMMIT) failed to affect quit rates among heavy smokers, but did boost quit rates by about 3 percent among light-to-moderate smokers (COMMIT Research Group, 1995a & b). Although COMMIT did not achieve the kind of success that had been hoped for, the modest increase in quitting observed among light-to-moderate smokers, if achieved nationally, would translate into 1.2 million additional adults stopping smoking (Klausner, 1997). A recent analysis of the cost-effectiveness of the COMMIT shows that the intervention com-
pares favorably with a number of other common preventive practices and many therapeutic interventions as well (Lewit et al., 1998). The finding that COMMIT was relatively cost-effective, given its limited effectiveness, appears to rest largely on the estimate of its incremental social cost—$167 per smoker for the 4 years of the trial ($42 per smoker per year) as compared with the costs of other health and medical interventions.

In evaluating the scientific literature on community interventions for tobacco control, one also has to recognize that not all interventions are equal. The focus and content of community-wide tobacco control interventions has evolved over the years from an approach a decade ago that was primarily designed to provide education and services to individual smokers to one that today actively attempts to bring about formal policy changes (Klausner, 1997). The focus of activity in most community tobacco programs today is on efforts to enact policies that have the potential to influence every smoker and potential smokers, including regulations on where smoking is permitted, taxation of tobacco products, limits on tobacco advertising and promotion, dedicated funding for mass-reaching public information campaigns, and mainstreaming of cessation advice and treatment by health care providers (Klausner, 1997). The success of a comprehensive, policy-focused approach to tobacco control is seen in the recent evaluations of the Massachusetts Tobacco Control program and the NCI’s American Stop Smoking Intervention Trial for Cancer Prevention (ASSIST), both of which found significant reductions in cigarette consumption associated with program efforts (Harris et al., 1997; Manley et al., 1997). Indeed, as Glantz has pointed out, the 7 percent reduction in per-capita cigarette consumption attributable to the ASSIST program means that if ASSIST were a cigarette brand, it would exceed the market share for all other brands of cigarettes sold except Marlboro (Glantz, 1997).

WHAT LESSONS HAVE WE LEARNED? The history of the tobacco control movement provides some useful lessons to ponder as we consider whether community interventions are a good investment (Susser, 1995). First, to bring about large-scale changes in tobacco consumption, the social norms related to tobacco use need to change, and this change takes time. Two decades ago, who would have envisioned a smoke-free workplace as the accepted norm? The campaign to enact smoke-free policies began with a few public health advocates standing alongside those harmed by smoke pollution and gradually grew to include health care institutions, private employers, and government regulators. The usual time frame for evaluations of community tobacco control interventions is years when the time required to bring about social change may be decades. For example, significant reductions in smoking associated with the North Karelia intervention did not become evident for nearly 10 years (Puska et al., 1973 & 1983).

Second, the measured effects of community-wide interventions is likely to be small, but as demonstrated by COMMIT, even a modest percentage effect on smoking behavior can translate into a large public health impact (Carlton et al., 1994; Lewit et al., 1998; Glantz, 1997).
Third, community-wide interventions like COMMIT do not seem to have much impact on changing the smoking habits of heavy smokers. For those who are highly dependent on nicotine, more intensive clinical interventions and/or substitution of less lethal forms of nicotine ingestion may be necessary (Warner et al., 1997).

Fourth, community tobacco control activities change over time, to reflect both the current state of scientific knowledge and shifting public attitudes about tobacco. Three decades ago, the primary focus of community interventions was educating consumers about the hazards of tobacco. Today, the emphasis is on dictating the policies that govern the way that tobacco products are designed, used, and marketed (Klausner, 1997).

Finally, the conventional experimental research paradigm typically used to evaluate medical interventions may not be ideally suited to assessing the impact of community tobacco control efforts that encompass entire populations and change over time (Klausner, 1997; Susser, 1995). In the COMMIT study, over half of the $42.5 million devoted to that project was used for evaluation purposes (Lewit et al., 1998). A simpler, more efficient use of resources would be to design a surveillance system that would encompass the entire population and allow evaluators to compare differences in tobacco use trends over time and between communities.

**SUMMARY** Although national and statewide initiatives have important roles to play in a comprehensive program to reduce tobacco use, local community intervention is where the action is, and represents the heart of the tobacco control movement. We would all be smart to live by the old adage, “Think global, act local.” Local community intervention, tailored to the unique concerns and needs of a community, represents the best hope of speeding up the pace of change in the social norms that govern tobacco use.

It would be a big mistake to abandon community tobacco control efforts on the basis of a few disappointing studies. We have much to learn about how to bring about population-wide changes in tobacco use. Research is now just beginning to help us elucidate the factors that are important (Kaufman, 1997). For example, a recent secondary analysis of data collected as part of the COMMIT study has shown that community variation in tobacco use trends can be accounted for in part by differences in cigarette pricing and marketing practices, policies that influence workplace smoking, and policies that influence the cost and accessibility of stop smoking therapies (Lewit et al., 1997; Cummings et al., 1997a & 1997b; Glasgow et al., 1997). We need to use this knowledge and invest more time and energy into learning how to apply this information to the practice of community tobacco control.
REFERENCES


