In this edition of the Journal, our theme is “Bridging the Gap: The Role of Science in Policy Part II.” The contributions include an original paper analyzing the state of substance abuse prevention programs. In the paper entitled, Selling Prevention: Using a Business Framework to Overcome Obstacles to Expanding Substance Abuse Prevention, the author provides consumer-driven approaches that may expand the use and impact of substance abuse prevention programs.

The commentary included in this edition, While the US Zigs on Pot, the Netherlands Zags, is written by Dr. Robert DuPont, former Director of the National Institute on Drug Abuse. It is a special contribution that examines the Netherlands experience with legalizing drugs – bringing this country full circle as they move away from a liberalized drug policy today. Can the U.S. learn from the Dutch experience?

**IN THIS ISSUE**

Selling Prevention: Using a Business Framework to Analyze the State of Prevention and Overcome Obstacles to Expanding Substance Abuse Prevention

**COMMENTARY**

While the US Zigs on Pot, the Netherlands Zags
Selling Prevention: Using a Business Framework to Analyze the State of Prevention and Overcome Obstacles to Expanding Substance Abuse Prevention

Theodore L. Caputi

Abstract

Substance abuse prevention programs can be a tough sell to schools, but by employing common business frameworks, the field can more easily understand the state of the field and identify possible methods of expanding school-based substance abuse prevention. An analysis of the state of the substance abuse prevention field finds that the field often fails to consider the consumer when making strategic business decisions. Consumer-driven approaches such as the development and adoption of a standardized measure for effectiveness of in-school substance abuse prevention programs may expand the use and impact of substance abuse prevention. The field should extensively examine the current state of substance abuse prevention, through business tools such as the SWOT and Five C’s Analysis, before ultimately developing a strategy. The prevention field can learn from business practices.

Keywords: business framework, substance abuse prevention, in-school substance abuse prevention, NREPP, standardized measure
Selling Prevention: Using a Business Framework to Overcome Obstacles in Expanding Substance Abuse Prevention

Substance abuse in America seems to be on an unmanageable trend. Today, more than ten percent of Americans fit the criteria for substance use disorder (Sussman, Lisha, Griffiths, 2011) -- meaning substance use disorders are more prevalent than cancer -- and only a small percentage of people with substance use disorders receive adequate treatment (SAMHSA, 2012). The economics of substance abuse boil down to a hefty price tag for virtually every American business and taxpayer. The National Institute of Health estimates that the total costs of substance abuse tops $500 billion annually in health care, criminal justice, and lost productivity costs (NIH, 2008). Costs associated with other, less measurable social harms (i.e. irresponsible parenting, co-occurring risky behaviors, impaired drivers) only add to that total. Worse still, rates of substance use and overdose have increased dramatically over the past ten years. A nationwide opioid epidemic (Laxmaiah & Helm, 2012), with rates of heroin and prescription drug abuse skyrocketing, has captured popular media attention. If Americans do not make major policy changes, the costs associated with substance abuse will only increase and create more of a burden on Americans.

There is an intermittently suggested approach that appears to be the most powerful cost-effective solution for substance abuse related harms: prevention. Research by Substance Abuse and Mental Health Services Administration (SAMHSA) has shown that every dollar spent on substance abuse prevention can save up to $34 of future costs (Miller & Hendrie, 2009). A solution 34 times more powerful than treatment as usual? That sounds
like the kind of response we need to curb the effects of the opioid epidemic. But as soon as prevention is proposed as a solution, it is discredited as impractical. Prevention is inherently proactive, and we live in a reactive world.

I argue that we are writing off prevention too hastily. It is true that prevention is a tough sell but so too have been vaccines, colonoscopies, and condoms. If we apply a commonsense business framework to substance abuse prevention, we may see unprecedented success in selling prevention.

**The State of Prevention**

Before businesses create a strategy to improve, they often study the state of the field extensively and even perform diagnostic marketing research to get a sense for the climate surrounding their products. Unfortunately, the decentralized world of prevention rarely devotes time to examine substance abuse prevention programs on a whole. This section will review the current state of prevention using business frameworks including a SWOT analysis (figure A) and a Five C’s analysis (figure B).

It seems natural for schools to host substance abuse prevention programs. Schools have a captive audience of young people and already provide education concerning other problem behaviors such as risky sex. Not surprisingly, in-school programs have dominated the field for several decades. The decentralized nature of school policy in America has led to a fairly decentralized administration of substance abuse programs. Prevention programs are often selected by individual school districts, individual schools,
or, in some cases, individual classroom teachers. Schools are given the responsibility of implementing substance abuse prevention, and there is no designated, centralized agency that guides substance abuse prevention program implementation.

Resource-poor schools often do not implement prevention programming due to perceived costs, which limits prevention implementation in particularly needy areas. Wealthier schools that have the resources to purchase prevention programs often implement ineffective substance abuse prevention programs. The Substance Abuse and Mental Health Services Administration (SAMHSA) is a federal agency that seeks to help schools by identifying effective programs with the publication of its National Registry of Evidence Based Programs and Practices (NREPP; SAMHSA 2007). NREPP is a listing of programs designated as “evidence-based,” which means that some amount of published research supports the efficacy of the programs included in the list. NREPP is important because many federal and state funders require that substance abuse programs be evidence-based, a term which typically means inclusion in NREPP.

In addition to federal agencies, states play a role in the implementation of substance abuse prevention programs in school and otherwise. Many states have some type of mandate that requires prevention programming in schools. Unfortunately, these mandates are often unenforced and either unfunded or underfunded. Many states have some limited level of funding dedicated to prevention programming. Pennsylvania, for instance, provides some prevention funding through county-based Single County Authorities
SCAs are required to use prevention programs included in Pennsylvania’s list of evidence-based and state-approved programs, which on the whole is similar to NREPP.

A summary of substance use prevention in the United States is incomplete without mention of the Drug Abuse Resistance Education (D.A.R.E.) program, the most prevalent in-school substance abuse prevention program in America. D.A.R.E. was founded in 1983 by Daryl Gates, retired chief of the Los Angeles Police Department, and quickly became synonymous with substance abuse prevention across the country (D.A.R.E. America, 2015). In fact, D.A.R.E. is now implemented in 75% of American school districts, affecting 26 million young people each year. D.A.R.E. earned its prominence through highly powerful, emotional marketing. From its inception to the early 2000’s, however, D.A.R.E. lacked a sound evidence basis. Several studies found that D.A.R.E. was ineffective or even counterproductive (e.g. Clayton, Cattarello, & Johnstone, 1996; Ennet, Tobler, Ringwalt, & Flewelling, 1994). Beginning in the early 2000’s, D.A.R.E. sought to make its program evidence based. First, D.A.R.E. attempted to develop its own program, Take Charge of Your Life, through a grant from the Robert Wood Johnson Foundation (Sloboda et al., 2009). This program failed efficacy trials and was eventually scrapped. In 2009, D.A.R.E. adopted an existing evidence-based program called Keepin’ it REAL (Hecht, Colby, & Miller-Day, 2010). Today, D.A.R.E. implements versions of the Keepin’ it REAL curriculum to millions of American students.
The Major Problems

Several well-known problems exist in substance abuse prevention, and this section will review some of the most glaring.

Perhaps the most difficult to overcome issue in prevention is a remnant from the old D.A.R.E. program: a poor reputation. Research refuting D.A.R.E. through the late 1980’s and 1990’s made the educated public skeptical of prevention programs in general. As a colleague in the social sciences asked me when I told him about my research on the efficacy of prevention programs, “Isn’t D.A.R.E. the epitome of failed social interventions? Does prevention even work?” It is important to note that this negative perception persists despite the existence of numerous alternative prevention programs that have an evidence basis and D.A.R.E.’s 2009 adoption of an evidence-based program. In business, perception is reality, and the perception of prevention is still poor based upon research performed on an ineffective version of D.A.R.E. more than 20 years ago.

The second most important problem in prevention is consumer confusion. As a list of evidence-based programs, NREPP is a standard of efficacy for substance abuse prevention programs, but NREPP is inadequate because its standard of evidence is questionable. For example, one NREPP “evidence-based” program, Drugs: True Stories, is supported by just one summary in a non-refereed journal (e.g. “Division on Addictions,” 2007). Varied reporting systems used in research make it difficult to discern differences in efficacy of programs. For example, Keepin’ it REAL (Hecht, Graham, & Elek, 2006) measures norms and recent substance abuse up to 14 months after the
Botvin’s Life Skills (Botvin, Baker, Dusenbury, Botvin, & Diaz, 1995), on the other hand, measures lifetime substance abuse up to six years after the intervention. To a consumer, comparing prevention programs is akin to comparing apples to oranges.

Analysis of the Keepin’ it REAL (KiR) intervention further demonstrates the confusion connected with identifying an effective program. The KiR middle school intervention was originally tested in three different versions: KiR white/black, KiR Hispanic, and KiR multicultural. Only KiR Hispanic and KiR multicultural showed any significant results; the black/white version was ineffective (Hecht, Graham, & Elek, 2006). Years later, KiR developed two elementary school adaptations, KiR-Acculturation Enhanced (KiR-AE) and KiR-Plus. When tested, both of these versions were found to be ineffective or even counterproductive (Hecht et al., 2008). When D.A.R.E. adopted KiR in 2009 (Hecht, Colby, & Miller-Day, 2010), the KiR developers created a new version, KiR D.A.R.E. (and eventually KiR D.A.R.E. Elementary), which combined elements of the KiR middle school interventions and the original D.A.R.E. program. KiR D.A.R.E. and KiR D.A.R.E. Elementary have not been tested in randomized trial. The research indicates that some versions of KiR work (e.g. Hispanic/Latino, multicultural), others do not (e.g. Black/White, KiR-AE, KiR-Plus), and some are unstudied (e.g. KiR D.A.R.E. and KiR D.A.R.E. Elementary). However, using NREPP, all versions of KiR are classified as though they are the same intervention and are, therefore, all considered evidence-based. Is KiR D.A.R.E. or KiR D.A.R.E. elementary truly evidence based? While they may show promise, those particular versions have never been specifically tested.
It is important to note that consumer confusion does not only lead to suboptimal choices of programs. Schools or districts that are perplexed by the prevention field may simply choose not to implement prevention altogether.

A third problem in the implementation of substance abuse prevention is the distribution channels. The primary channel for substance abuse prevention is through schools. Unfortunately, many schools or school districts lack an in-house substance abuse prevention specialist. While prevention experts may see substance abuse prevention programs as crucially important, for the field’s customers of schools and school boards, it is often seen as a low motivation purchase. The price tag is generally modest (compared with other school expenses), but confusion in the marketplace makes market research costly. Low motivation purchases are driven primarily by heuristic, mental shortcuts that help people to make a decision. An example of a heuristic is the availability heuristic, where people make a decision based on the first option to come to mind. Heuristics are surprisingly powerful even in organizational decisions. A school board, for example, may choose a prevention program because of name brand recognition or NREPP status – both of which are not necessarily good indicators of quality – rather than the quality of the program and its suitability to the student population. While one school board acting on heuristic may seem inconsequential, thousands of school boards across the country acting on heuristic may be detrimental to research-driven prevention approaches.

Finally, the quality of prevention research is questionable. This challenge may be the most difficult to address. Substance abuse programs are almost always tested by their
developers, who have a bias to prove that their program works. A program like *Keepin’ it REAL* is classified as evidence-based solely because of studies performed by KiR’s developers (e.g. Hecht, Graham, & Elek, 2006; Hecht et al., 2003; Kulis et al., 2005; Kulis et al., 2007).

Businesses seeking to expand often use several key tools to help them better understand the state of their industry. I encourage the prevention field to utilize tools, such as SWOT Analysis and the Five C’s, to improve its reach. A SWOT analysis (see Figure A) measures a firm’s Strengths, Weaknesses, Opportunities, and Threats (e.g. Pickton & Wright, 1998). Strengths and Weaknesses refer to internal conditions, whereas Opportunities and Threats refer to external conditions. Performing a SWOT Analysis can help a corporation understand how it measures up against its competitors. Competition is rarely considered in substance abuse prevention, but the reality is that substance abuse prevention programs are competing for both time and resources against all sorts of other social interventions and academic curricula in schools. Using a SWOT analysis could help the field better understand its barriers to succeeding in these types of competitions. The Five C’s, (Consumer, Competitors, Collaborators, Company, and Context; see Figure B) provide a framework for understanding the state of a company within its given field. The Five C’s are particularly important for substance abuse prevention because it forces the user to consider all relevant factors that frame the substance abuse prevention field. An analysis without the Five C’s may ignore an important barrier. For example, substance abuse prevention policy makers often fail to understand their customers. Customers are rarely students receiving the substance abuse prevention intervention;
instead they are the school board, principal, or teacher who decides whether the program will be implemented at all. Additionally, it is conceivable that different types of consumers exist; what if school boards have different concerns from teachers? Tools such as the SWOT analysis and the Five C’s can help prevention policy makers to better understand what is standing in the way of successful implementation of evidence-based prevention programs.

**Figure A: Sample SWOT Analysis**

<table>
<thead>
<tr>
<th>Internally-Focused</th>
<th>Weaknesses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Strengths</strong></td>
<td></td>
</tr>
<tr>
<td>• Cost effective approach to substance abuse</td>
<td>• Overall poor perception of effectiveness</td>
</tr>
<tr>
<td>• Diverse set of effective programs that work on diverse audiences</td>
<td>• Consumer confusion fueled by differences in measures</td>
</tr>
<tr>
<td>• Dedicated researchers at institutes and universities across the country</td>
<td>• Poor quality of research (in that most programs are only evaluated by the developers)</td>
</tr>
<tr>
<td><strong>Opportunities</strong></td>
<td></td>
</tr>
<tr>
<td>• Room for increased government role</td>
<td>• The schools and students that need prevention most are often the most resistant</td>
</tr>
<tr>
<td>• Good implementation channels through schools</td>
<td>• Tends to be a low-motivation decision</td>
</tr>
<tr>
<td>• NREPP guides national standard of efficacy</td>
<td>• Opioid epidemic and increase in substance use</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Externally-Focused</th>
<th>Threats</th>
</tr>
</thead>
</table>

### Five C’s Analysis

| **Consumer** | • Common wisdom suggests that schools and school districts are the main consumer  
• Unclear which indicators matter to consumers  
• Unclear whether there are different segments in the market (i.e. differences between urban and suburban consumers) |
| **Competitors** | • Competitors for prevention are other in-school non-academic programs, e.g. an in-school art program  
• Other programs may have a better perception |
| **Collaborators** | • Federal collaborators: Department of Education, Substance Abuse Mental Health Administration  
• State collaborators: drug and alcohol agencies, state education agencies  
• Local collaborators: school districts, schools, teachers  
• Others: researchers, policy makers, and legislators |
| **Company** | • Prevention is not a company, but it may be valuable to identify the major players in prevention (i.e. primary providers) |
| **Context** | • Opioid epidemic has brought substance abuse into the limelight  
• Substance abuse still faces a poor reputation from the old D.A.R.E. program |

### Potential Solutions

In-school prevention programs should be considered a business product that has turned off customers due to their poor perception and high levels of consumer confusion. By failing in these two dimensions, prevention programs fail to capture their full market potential. The field can implement strategies to ameliorate these two fundamental problems and increase market demand.

In business, solutions are not only evaluated based upon their potential for success but also for their feasibility. A perfect strategy that is unlikely to be implemented or well received is not a good strategy for the field.
The most obvious solution to solving many major problems in prevention is to make the field easier to navigate. Just a few years ago, health insurance systems across the United States were complicated and convoluted. Some plans had higher co-pays, while others had high deductibles. Some covered certain areas better than others. Understanding health care was too complicated for commercial consumers, let alone private consumers. The result was that many consumers purchased suboptimal health care packages. The 2010 Affordable Care Act created HealthCare.gov, which at least partially clarified the system. The website provides easy-to-understand comparisons of health care plans and standardized some features (i.e. coverage of pre-existing conditions). While there is still debate concerning the long-term success of the ACA and HealthCare.gov, it seems clear that the program improved overall consumer perceptions related to comparing health care plans.

Substance abuse prevention could benefit from learning the story of HealthCare.gov. Currently, substance abuse prevention research is so scattered that it is difficult to discern differences in efficacy between programs. Programs that show positive short-term results may not have had long-term efficacy trials and the rigor of research varies from study to study. In essence, the data on prevention programs is messy and comparison is difficult or impossible.

To ameliorate several problems in the prevention field, I recommend the adoption of a standardized measure for in-school substance abuse prevention programs. A standardized
measure would have several benefits. Chief among them would be an improvement in the quality of research performed on substance abuse programs. As it stands, prevention programs are subject to reporter bias, where researchers may selectively publish certain findings on a particular program. This effect is magnified by the bias associated with having a program’s developer evaluate its effectiveness. A standardized measure would at least force the researcher to publish all relevant data on the intervention. If a biased researcher discovers that the prevention program under scrutiny will have positive short-term effectiveness but no long-term effect, a standardized measure would require the reporter to publish both findings instead of simply ignoring the long-term effects.

A standardized measure would lend itself to a “Consumer Reports” type of comparison for substance abuse prevention programs. A major source of confusion in the substance abuse prevention field is differences in measures. It is virtually impossible to directly compare two different interventions as the two interventions undoubtedly use different indicators for success. A standardized measure would facilitate direct comparison between programs.

Standardized measures and a report system may also help the field overcome its perception of inefficacy. Prevention programs have come under attack for being ineffective because of confusing and often self-serving reporting practices. If two programs cannot be compared, who is to say that any are effective? A “Consumer Reports” type model, facilitated by a standardized measure of in-school prevention programs, would help consumers see clearly the efficacy of programs.
A less practical but more powerful solution would be legislative or regulatory changes. A major problem in the substance abuse prevention field is delivery channels. Despite the importance of these programs to a student’s future, the consumers with the best potential to benefit from our product – schools and school districts – treat substance abuse prevention as a low-motivation decision. There are several ways to make these consumers care more about the product and switch the decision from low-motivation to high-motivation.

For-profit firms commonly use advertising to make a low-motivation purchasing decision into a high-motivation purchasing decision. Advertising can convince consumers that a specific consumption decision is important and deserves a high level of motivation (laundry detergent, for example). Prevention could publicize the scope of the addiction problem and advertise the effectiveness of evidence-based and well-suited prevention programs to increase levels of consumption motivation.

The substance use prevention field has another tool to increase consumer motivation: regulatory or legislative changes. Currently, purchasing decisions for substance abuse prevention programs are commonly made by non-experts. Non-experts tend to make low-motivation, uninformed decisions. If, through regulatory or legislative changes, prevention programs were decided by an expert in substance abuse prevention (either someone at the school or at a government agency), then the decision would become higher motivation and better informed.
The third and least feasible option would simply be to fund and enforce a mandate to implement effective in-school prevention programs. If schools were forced and funded to implement independently clinically-proven K-12 substance abuse prevention programs, resource-poor schools would be more likely to implement programs. Further, funding from a federal agency would likely increase oversight to ensure that only effective programs are implemented.

A useful framework for examining potential solutions to the problems listed in this section is called the Marketing Mix or the 4 P’s (see Figure C). This analysis includes consideration of price, product, promotion, and place. Such an analysis is important because it considers the four main determinants for consumer decision making and forces the decision-maker to consider how a strategic change will ultimately impact the consumer’s decision-making experience. Each consumer-based strategic decision will ultimately impact the 4 P’s.
Figure C: Sample Marketing Mix Analysis

<table>
<thead>
<tr>
<th>Marketing Mix Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Price</strong></td>
</tr>
<tr>
<td>• Some resource poor schools see the price as prohibitive. This can be solved by emphasizing future savings.</td>
</tr>
<tr>
<td>• Prevention providers may also consider cost reduction strategies to reign in prices</td>
</tr>
<tr>
<td><strong>Product</strong></td>
</tr>
<tr>
<td>• Variety of products available to meet diverse needs</td>
</tr>
<tr>
<td>• Universal, selective, and indicated programs to meet specific needs</td>
</tr>
<tr>
<td><strong>Promotion</strong></td>
</tr>
<tr>
<td>• Clarify promotion through standardized measure and consumer report</td>
</tr>
<tr>
<td>• Need for increased awareness about efficacy of prevention programs</td>
</tr>
<tr>
<td>• Advertising to shift attribute importance in line with public health priorities</td>
</tr>
<tr>
<td><strong>Place</strong></td>
</tr>
<tr>
<td>• Perhaps it would be easier to market programs through funders rather than schools</td>
</tr>
</tbody>
</table>

**Areas for Future Research**

There is a lot of work left for researchers in the field of substance abuse prevention. I recommend two phases of research.

**Phase I: Field Analysis**

A successful business must invest some money into market and industry research in order to maintain market share. Unfortunately, the available research on the substance abuse prevention field is lacking.

**Channels**

There has been no recent research on the channels for substance abuse prevention. While it is largely assumed that decisions for school-based programs are made at the school or district level, little peer-reviewed research is available to support this. There is no
research to indicate who the decision makers are within schools. The decision maker could be principals, guidance counselors, or individual teachers. These channels may differ between market segments (e.g. urban schools versus suburban schools). Perhaps urban school districts will tend to implement prevention on a school-by-school basis, while suburban schools will implement programs on a district-by-district basis. We simply do not have enough information to tell.

**Consumer Demands**

Social scientists often focus too stringently on results and not stringently enough on meeting consumer needs. It will not matter if a program has the best long-term results if school decision makers only care about short-term results. Fortunately, business and marketing have developed tools to help us discern what matters to consumers. I recommend using a conjoint study (Green & Srinivasan, 1978) to analyze what consumers care about and do not care about. A conjoint study (see Figure D) is a type of systematic survey, which helps to discern which attributes of a product are most important. Screen size, weight, camera quality, and service may be important attributes for a cell phone, but a conjoint study may show that the camera is most important and the weight is less important. By including evidence from a conjoint study while formulating a standardized measure for in-school prevention programs, it will ensure that a prevention consumer’s guide adequately informs consumers.
Summary: in a conjoint study, market researchers ask research subjects to make a series of choices between hypothetical products. The researchers use the results of these decisions to discern which attributes are most important to the consumer.

**Funding Streams**

In business, people follow the money. Surprisingly, there have been few studies mapping out the funding streams behind prevention programs. Funders can yield significant control over the types of prevention programs implemented, i.e. when states require that funded programs be evidence-based. Perhaps it will be easier to market changes to funders rather than to consumers.

**Phase II: Possible Solutions**

Once the field has been more thoroughly and systematically studied, researchers and policy makers can begin steps to improve their business strategy.

As previously stated, I recommend the next step for the field would be the development and widespread adoption of a standardized measure of efficacy for in-school substance...
abuse prevention programs. Such a measure should be informed by science and business. A standardized measure will be all but pointless if it ignores the demands of the consumer.

Therefore, I recommend a study to garner information about scientific and consumer indicators of quality for in-school prevention programs. A group of informed scientists can contribute which measures are most important from a public health standpoint. As consumers, school administrators and decision makers can contribute which indicators they find most important. A combination of focus groups, semi-structured interviews, and conjoint studies could illuminate the indicators to be included in a standardized measure. This measure would lend itself to the creation of a Consumer’s Guide for substance abuse prevention programs, complete with measures important to both schools and public health officials.

The proposed creation of a Consumer’s Guide raises the concern that public health priorities may be misaligned with consumer demand. Businesses have dealt with this problem for years. Say, for example, that a particular television company has good screen size, bad screen resolution, and high price. If consumers care about the “wrong” attributes, i.e. they care more about screen resolution and price than screen size, then the television company may lose market share. The company can shift attribute importance through effective advertising. By advertising the importance of screen size, the company may win back market share without necessarily adjusting screen resolution and price. Similarly, prevention policy makers and researchers can use advertising and other
marketing practices to emphasize the importance of measures important to public health. If scientists find that long-term lifetime use indicators are more important than short-term recent-use indicators, the field could use advertising to change attribute importance of these two indicators.

A regulatory solution would be increasing the rigor of NREPP. NREPP has earned a reputation in the field for identifying effective programs, even though it is clear that NREPP’s has a low standard of evidence. Increasing the rigor of NREPP would help schools understand which programs are truly evidence based, even without making substance abuse prevention a high-motivation decision. A potential standard of evidence may be that a program must have favorable results on two, independently run randomized trials of a certain size. Experts on evidence are best suited to identify a specific standard of evidence for NREPP.

**Conclusion**

Frameworks such as the SWOT analysis, Five C’s analysis, and conjoint studies have fueled business growth across sectors for several years. Substance abuse prevention often ignores these business decisions in deference to a focus on research and program efficacy. However, the best businesses realize they need more than a superior product to succeed; they need to dedicate time, energy, and resources to designing a marketing and business strategy that consumers will be receptive to. The idea of customer-centricity in substance abuse prevention is not new (Backer, 2000). However, utilizing business frameworks may improve the field’s ability and willingness to develop its business
strategy. While such a business strategy has not been previously studied in the substance abuse prevention literature, other projects for social good have successfully employed business methods to more widely disseminate programs. The US Department of Agriculture spends an equal amount on research as it does on designing consumer-friendly dissemination methods (Rogers, 1995), and has consequently been extremely successful in disseminating educational messages.

Substance abuse prevention should behave more like a business. A strategy to expand the impact of substance abuse prevention must utilize the business frameworks and tools that help for-profit firms succeed and gain market share. Analyzing substance abuse through a business framework will help researchers and policy makers craft a strategy that will engage more students with more effective programs and utilize prevention, the most powerful tool in substance abuse.
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Biography:

Theodore L. Caputi is a student at the Wharton School of Business at the University of Pennsylvania in Philadelphia, PA. He has performed research on prevention methods and policy at the Treatment Research Institute in Philadelphia, PA and through competitive research grants from the Wharton School. His primary research interest is in-school substance abuse prevention programs for adolescents. He recently conducted a systematic review of the Keepin’ it REAL D.A.R.E. intervention. Theodore serves on the Institutional Review Board for Treatment Research Institute and as Vice Chair and the youngest voting member of the board of directors for the Bucks County Drug and Alcohol Commission, a county agency responsible for local substance abuse policy. He has published blog posts regarding substance abuse with The Huffington Post and The Partnership for Drug Free Kids and has testified before the Pennsylvania senate on substance abuse issues.

Conflict of Interest Statement:

I declare that I have no proprietary, financial, professional or other personal interest of any nature or kind in any product, service and/or company that could be construed as influencing the position presented in, or the review of, the manuscript entitled, “Selling Prevention: Using a Business Framework to Overcome Obstacles in Expanding Substance Abuse Prevention.”

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Date: March 9th, 2015
While the US Zigs on Pot, the Netherlands Zags

Robert L. DuPont, M.D.

For decades, the Netherlands has been known for its tolerant cannabis laws. It has been the poster nation for pro-pot advocates. Cannabis users from across the world have flocked to Amsterdam to patronize its many cannabis-selling “coffee shops.” Throughout this time cannabis has remained illegal in the Netherlands although the Dutch have not prosecuted anyone in possession of less than five grams of cannabis for personal use. This distinctive drug policy of tolerance toward cannabis is called gedoogbeleid, and known as the “Dutch model.”¹

Now, the US is the first, and so far the only, nation in the world to have fully legal production, sale, promotion, and use of cannabis for people 21 and older. In stark contrast, the Netherlands is moving in the opposite direction, limiting the growth, distribution, and use of cannabis, with strict regulations for “medical marijuana.”¹ Cannabis with a THC level of more than 15 percent is now under consideration to be reclassified as a “hard drug.” In the Netherlands, that designation comes with stiff criminal penalties. Furthermore, the nation once had more than 1,000 coffee shops, 300 in Amsterdam alone. Now, there are fewer than 200 in the city and 617 nationwide.

This is the result of the government’s actions to force coffee shops to choose either to sell alcohol or marijuana. Notably, many are preferring to sell alcohol.

While it has always been illegal to grow cannabis in the Netherlands, for years police acted as if they didn’t know where the shops were procuring it. This is no longer the case. Now, new laws target even the smallest cannabis growers. In the past, anyone could grow up to five plants without fear of penalty. In 2011, the government issued new police guidelines declaring that anyone who grew cannabis using electric lights, prepared soil, “selected” seeds or ventilation would be considered a “professional” grower. This is a significant change. Professional growers risk major criminal penalties, including eviction and blacklisting from the government-provided housing in which more than half of the country’s citizens reside.

What provoked the Netherlands to make such a strong shift in its cannabis policy? The overall drug policy of the Netherlands – not only for cannabis but including cannabis – has four major objectives:

1. To prevent recreational drug use and to treat and rehabilitate recreational drug users.
2. To reduce harm to users.
3. To diminish public nuisance by drug users (the disturbance of public order and safety in the neighborhoods).
4. To combat the production and trafficking of recreational drugs.

The Netherlands has determined that its relaxed cannabis laws were a threat to these expressed public health objectives. The nation’s new, more restrictive laws, including banning cannabis
with THC levels of 15 percent or more, demonstrate that the government intends to reduce cannabis sale and use for reasons of public health.

As the legalization of medical and recreational marijuana spreads to more states in the US, it is instructive to look anew to the Netherlands. The US can benefit from the lessons learned by the Netherlands about cannabis over the past four decades. How surprising it is that the US media frequently praised the Netherlands’ permissive cannabis policy but now that the policy has become more restrictive it is being ignored.

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References


About the Author

For more than 40 years, Robert L. DuPont, M.D. has been a leader in drug abuse prevention and treatment. Among his many contributions to the field is his leadership as the first Director of the National Institute on Drug Abuse (1973-1978) and as the second White House Drug Chief (1973-1977). From 1968 to 1970 he was Director of Community services, for the District of Columbia Department of Corrections, heading parole and half-way house services. From 1970 to 1973, he served as administrator of the District of Columbia Narcotics Treatment Administration (NTA), the city-wide drug abuse treatment program that was the model for the federal government's massive commitment to drug abuse treatment in the early 1970s. Following this distinguished public career, in 1978 Dr. DuPont became the founding president of the Institute for Behavior and Health, Inc.

Dr. DuPont has written for publication more than three hundred professional articles and fifteen books and monographs on a variety of health-related subjects. His books include Getting Tough on Gateway Drugs: A Guide for the Family, A Bridge to Recovery: An Introduction to Twelve-
Step Programs and The Selfish Brain: Learning from Addiction. In 2005, Hazelden, the nation's leading publisher of books on addiction and recovery, published three books on drug testing by Dr. DuPont: Drug Testing in Drug Abuse Treatment, Drug Testing in Schools, and Drug Testing in the Criminal Justice System.

Throughout his decades of work in addiction prevention, Dr. DuPont has served in many capacities. His activities in the American Society of Addiction Medicine (ASAM) include chairing the forensic science committee and he is a Life Fellow. He is also a Life Fellow of the American Psychiatric Association (APA) and was chairman of the Drug Dependence Section of the World Psychiatric Association (WPA) from 1974 to 1979. In 1989 he became a founding member of the Medical Review Officer Committee of ASAM. He is an International Fellow of Drug Free Australia.

A graduate of Emory University, Dr. DuPont received an M.D. degree in 1963 from the Harvard Medical School. He completed his psychiatric training at Harvard and the National Institutes of Health in Bethesda, Maryland. Dr. DuPont maintains an active practice of psychiatry specializing in addiction and the anxiety disorders and has been Clinical Professor of Psychiatry at the Georgetown University School of Medicine since 1980. He is vice president of Bensinger, DuPont and Associates (BDA), a leading national consulting firm dealing with substance abuse, founded in 1982 by Dr. DuPont and Peter Bensinger, former Director of the Drug Enforcement Administration.

Dr. DuPont's signature role throughout his career has been to focus on the public health goal of reducing the use of illegal drugs. He currently serves on the boards of directors of the Kolmac
Foundation, the American Council on Science and Health, the National Anxiety Foundation and the World Federation Against Drugs.