Reducing Future Rates of Adult Addiction
Must Begin with Youth Prevention

The United States is confronting a public health crisis of rising adult drug addiction, most visibly documented by an unprecedented number of opioid overdose deaths. Most of these overdose deaths are not from the use of a single substance – opioids – but rather are underreported polysubstance deaths. This is happening in the context of a swelling national interest in legalizing marijuana use for recreational and/or medical use. As these two epic drug policy developments roil the nation, there is an opportunity to embrace a powerful initiative. Ninety percent of all adult substance use disorders trace back to origins in adolescence. New prevention efforts are needed that inform young people, the age group most at-risk for the onset of substance use problems, of the dangerous minefield of substance use that could have a profound negative impact on their future plans and dreams.

Moving Beyond a Substance-Specific Approach to Youth Prevention

The adolescent brain is uniquely vulnerable to developing substance use disorders because it is actively and rapidly developing until about age 25. This biological fact means that the earlier substance use is initiated the more likely an individual is to develop addiction. Preventing or delaying all adolescent substance use reduces the risk of developing later addiction.

Nationally representative data from the National Survey on Drug Use and Health shows that alcohol, tobacco and marijuana are by far the most widely used drugs among teens. This is no surprise because of the legal status of these entry level, or gateway, drugs for adults and because of their wide availability. Importantly, among American teens age 12 to 17, the use of any one of these three substances is highly correlated with the use of the other two and with the use of other illegal drugs. Similarly for youth, not using any one substance is highly correlated with not using the other two or other illegal drugs.

For example, as shown in Figure 1, teen marijuana users compared to their non-marijuana using peers, are 8.9 times more likely to report smoking cigarettes, 5.6, 7.9 and 15.8 times more likely

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\(a\) Among Americans age 12 and older who meet criteria for substance use disorders specified in the Diagnostic and Statistical Manual of Mental Disorders, 4th edition (DSM-IV).

\(b\) Marijuana remains illegal under federal law but is legal in some states for recreational use the legal age is 21, and in some states for medical use, the legal age is 18. Nationally the legal age for tobacco products is 18 and for alcohol it is 21.
to report using alcohol, binge drink, and drink heavily, respectively, and 9.9 times more likely to report using other illicit drugs, including opioids. There are similar data for youth who use any alcohol or any cigarettes showing that youth who do not use those drugs are unlikely to use the other two drugs. Together, these data show how closely linked is the use by youth of all three of these commonly used drugs.

**Figure 1. Past Month Use of Other Drugs, if Marijuana is Used, Ages 12-17**

These findings show that prevention messaging targeting youth must address all of these three substances specifically. Most current prevention efforts are specific to individual substances or kinds and amounts of use of individual drugs (e.g., cigarette smoking, binge drinking, drunk driving, etc.), all of which have value, but miss a vital broader prevention message. What is needed, based on these new data showing the linkage of all drug use by youth, is a comprehensive drug prevention message: **One Choice: no use of any alcohol, nicotine, marijuana or other drugs for youth under age 21 for reasons of health.** This no use prevention message provides clarity for young people, parents, physicians, educators, communities and for policymakers. It is not intended to replace public health prevention messages on specific substances, but enhances them with a clear focus on youth.

Some claim adolescent use of alcohol, cigarettes and marijuana is inevitable, a goal of no use of any drug as unrealistic and that the appropriate goal of youth prevention is to prevent the progression of experimentation to later heavy use or problem-generating use. These opinions are misleading and reflect a poor understanding of neurodevelopment that underpins drug use. Teens are driven to seek new and exciting behaviors which can include substance use if the culture makes them available and promotes them. This need not be the case. New data in Figure
2 show over the last four decades, the percentage of American high school seniors who do not use any alcohol, cigarettes, marijuana or other drugs has increased steadily. In 2014, 52% of high school seniors had not used any alcohol, cigarettes, marijuana or other drugs in the past month and 26% had not used any alcohol, cigarettes, marijuana or other drugs in their lifetimes.\(^8\) Clearly making the choice of no use of any substances is indeed possible – and growing.

**Figure 2. Past Month Trends among High School Seniors in Abstaining from Alcohol, Cigarettes, Marijuana and Other Illicit Drugs**

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*Sowing the Seeds for a New and Enduring Parents’ Movement*

Key lessons for the future of youth prevention can be learned from the past. Substance use peaked among high school seniors in 1978 when 72% used alcohol, 37% used cigarettes, and 37% used marijuana in the past month.\(^9\) These figures have since dropped significantly (see Figure 3). In 2016, 33% of high school seniors used alcohol, 10% used cigarettes and 22% used marijuana in the past month. This impressive public health achievement is largely unrecognized.
Although the use of all substances has declined over the last four decades, their use has not fallen uniformly. The prevalence of alcohol use, illicit drug use and marijuana use took similar trajectories, declining from 1978 to 1992. During this time a grassroots effort known as the Parents’ Movement changed the nation’s thinking about youth marijuana use with the result that youth drug use declined a remarkable 63%. Rates of adolescent alcohol use have continued to decline dramatically as have rates of adolescent cigarette use. Campaigns and corresponding policies focused on reducing alcohol use by teens seem to have made an impact on adolescent drinking behavior. The impressive decline in youth tobacco use has largely been influenced by the Tobacco Master Settlement Agreement which provided funding to anti-smoking advocacy groups and the highly-respected *Truth* media campaign. The good news from these long-term trends is that alcohol and tobacco use by adolescents now are at historic lows.

It is regrettable but understandable that youth marijuana use, as well as use of the other drugs, has risen since 1991 and now has plateaued. The divergence of marijuana trends from those for alcohol and cigarettes began around the time of the collapse of the Parents’ Movement and the birth of a massive, increasingly well-funded marijuana industry promoting marijuana use. Shifting national attitudes to favor legalizing marijuana sale and use for adults both for medical and for recreational use now are at their highest level and contribute to the use by adolescents. Although overall the national rate of marijuana use for Americans age 12 and older has declined since the late seventies, a greater segment of marijuana users are heavy users (see Figure 4). Notably, from 1992 to 2014, the number of daily or near-daily marijuana uses increased 772%. This trend is particularly ominous considering the breathtaking increase in the potency of today’s...
marijuana compared to the product consumed in earlier decades. These two factors – higher potency products and more daily use – plus the greater social tolerance of marijuana use make the current marijuana scene far more threatening than was the case four decades ago.

Figure 4. Millions of Americans Reporting Marijuana Use, by Number of Days of Use Reported in the Past Month

Through the Parents’ Movement, the nation united in its opposition to adolescent marijuana use, driving down the use of all youth drug use. Now is the time for a new movement backed by all concerned citizens to call for One Choice: no use of any alcohol, nicotine, marijuana or other drugs for youth under age 21 for reasons of health. This campaign would not be a second iteration of the earlier “Just Say No” campaign. This new no-use message focuses on all of the big three drugs together, not singly and only in certain circumstances such as driving.

We are at a bitterly contentious time in US drug policy, with front page headlines and back page articles about the impact of the rising death rate from opioids, the human impact of these deaths and the addiction itself. At the same time there are frequent heated debates about legalizing adult marijuana and other drug use. Opposing youth substance use as a separate issue is supported by new scientific evidence about the vulnerability of the adolescent brain and is noncontroversial. Even the Drug Policy Alliance, a leading pro-marijuana legalization organization, states “the safest path for teens is to avoid drugs, including alcohol, cigarettes, and prescription drugs outside of a doctor’s recommendations.”

This rare commonality of opinion in an otherwise perfect storm of disagreement provides an opportunity to protect adolescent health and thereby reduce future adult addiction. Young people who do not use substances in their teens are much less likely to use them or other drugs in later decades. The nation is searching for policies to reduce the burden of addiction on our nation’s
families, communities and health systems, as well as how to save lives from opioid and other drug overdoses. Now is precisely the time to unite in developing strong, clear public health prevention efforts based on the steady, sound message of **no use of any alcohol, nicotine, marijuana or other drugs for youth under age 21 for reasons of health.**

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Established in 1978, the Institute for Behavior and Health, Inc. (IBH) is a 501(c)3 non-profit organization working to reduce illegal drug use through the power of good ideas. IBH websites include: [www.IBHinc.org](http://www.IBHinc.org), [www.StopDruggedDriving.org](http://www.StopDruggedDriving.org), and [www.PreventTeenDrugUse.org](http://www.PreventTeenDrugUse.org) / [www.OneChoicePrevention.org](http://www.OneChoicePrevention.org).