

Press Release

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**SAFE Glen Cove Coalition: NIDA Study Says Drug Use Severity in Adolescence Affects Risk of Substance Use Disorder in Adulthood**

A recent study funded by the National Institute on Drug Abuse (NIDA), part of the National Institutes of Health shows screening for substance use disorder in teens may help predict adult prescription drug use and misuse and prevent overdose. While use of alcohol, cannabis, or other drugs is common among adolescents, previous studies have suggested that most teens reduce or cease drug use as they enter adulthood. However, this study indicates that adolescents with multiple symptoms of substance use disorder – indicating higher severity – do not transition out of symptomatic substance use.

According to a new analysis of a nationwide survey in the United States, people who reported multiple symptoms consistent with severe substance use disorder at age 18 exhibited two or more of these symptoms in adulthood. These individuals were also more likely, as adults, to use and misuse prescription medications, as well as self-treat with opioids, sedatives, or tranquilizers. NIDA researchers maintain screening adolescents for drug use is extremely important for early intervention and prevention of the development of substance use disorder and is critical especially as the transition from adolescence to adulthood, when brain development is still in progress and appears to be a period of high risk for drug use initiation.

Researchers argue that key knowledge gaps currently hinder the initiation of screening, diagnosis, prevention, and treatment efforts for teens with substance use disorders. For example, previous methods evaluating persistence of substance use disorder tended to treat substance use disorder as one broad category, without looking at severity. They also failed to account for the possibility of polysubstance use, whereby individuals may use multiple drugs or switch the types of drugs they use as they grow older.

The NIDA-funded [Monitoring the Future](#) Panel study at the University of Michigan-Ann Arbor helped close this research gap by examining substance use behaviors and related attitudes among 12th graders through their adulthood in the United States. Since 1976, the study has surveyed panels of students for their drug use behaviors across three time periods: lifetime, past year, and past month. In this study, researchers looked primarily at a subgroup of 5,317 12th graders first evaluated between 1976 and

1986, who were followed with additional surveys at two-year, then five-year intervals for up to 32 years, until they reached age 50. Among the respondents, 51% were female and 78% were white.

The research team examined the relationship between substance use disorder symptom severity at age 18 and prescription drug use, prescription drug misuse, and substance use disorder symptoms up to age 50 in these individuals.

To measure severity of substance use disorder symptoms in adolescence, researchers recorded the number of substance use disorder symptoms that participants reported in response to initial survey questions. These questions were based on criteria for alcohol, cannabis, and “other drug” use disorders in the Diagnostic and Statistical Manual of Mental Disorders (DSM). The researchers categorized substance use disorder symptoms into five levels of severity: exhibiting no symptoms, one symptom, two to three symptoms, four to five symptoms, and six or more symptoms. Symptoms included, but were not limited to, substance use resulting in a failure to fulfill major role obligations and repeating substance use even when dangerous to health.

Approximately 12% of surveyed teens indicated “severe” substance use disorder, defined by this study as reporting six or more symptoms. Among this group, more than 60% exhibited at least two symptoms of substance use disorder in adulthood – an association found across alcohol, cannabis, and other drug use disorders. By comparison, roughly 54% of teens reporting two to three symptoms – indicative of “mild” substance use disorder – had two or more substance use disorder symptoms in adulthood. Higher severity of substance use disorder symptoms at age 18 also predicted higher rates of prescription drug misuse in adulthood.

Overall, more than 40% of surveyed 18-year-old individuals reported at least two substance use disorder symptoms (across all substances). More than half of the individuals who were prescribed and used opioids, sedatives, or tranquilizers as adults also reported two or more symptoms at age 18. This finding underlines the importance of strategies to increase safety and properly assess a potential history of substance use disorder symptoms when prescribing controlled medications to adults. Teens with substance use disorder will not necessarily mature out of their disorders, and it may be harmful to tell those with severe symptoms that they will. The study shows that severity matters when it comes to predicting risk decades later, and it’s crucial to educate and ensure that messaging to teens with the most severe forms of substance use disorder is one that’s realistic. Minimizing shame and sense of failure is critical.

Researchers maintain more investigation is needed to uncover potential neurological mechanisms and other factors behind why adolescents with severe substance use disorder symptoms are at increased risk of drug addiction and misuse in adulthood. Characterizing possible causes of more severe substance use disorder could help improve understanding of vulnerability to chronic substance use and help make prevention and treatment strategies more effective.

NIDA is a component of the National Institutes of Health, U.S. Department of Health and Human Services and supports most of the world’s research on the health aspects of drug use and addiction. For more information about NIDA and its programs, visit [www.nida.nih.gov](http://www.nida.nih.gov).

The SAFE Glen Cove Coalition is conducting an opioid prevention awareness campaign entitled. "Keeping Glen Cove SAFE," in order to educate and update the community regarding opioid use and its consequences. To learn more about the SAFE Glen Cove Coalition please follow us on [www.facebook.com/safeglencovecoalition](https://www.facebook.com/safeglencovecoalition) or visit SAFE's website to learn more about the Opioid Epidemic at [www.safeglencove.org](http://www.safeglencove.org).