

# For young adults, cigarettes more pleasurable with alcohol than with pot

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Credit: Vera Kratochvil/public domain

Young adults get more pleasure from smoking cigarettes while they are drinking alcohol than they do while using marijuana, according to a new UC San Francisco study.

The study is the first to document that tobacco accompanied by alcohol provides cigarette smokers with a greater perceived reward than when

they smoke cigarettes while using [marijuana](#).

The study will be published online April 18 in the journal *Addiction Research & Theory*.

"What we've learned may have important implications for understanding differences in co-use of cigarettes with alcohol versus marijuana," said co-first author Noah R. Gubner, PhD, a postdoctoral scholar at the Philip R. Lee Institute for Health Policy Studies at UCSF.

"Our findings show that co-use of cigarettes and alcohol could be more pleasurable than co-use of cigarettes and marijuana," said Gubner.

Research has shown that among [young adults](#), cigarette [smoking](#) is strongly associated with alcohol and marijuana use—and smoking is particularly common among heavy drinkers or binge drinkers. Previous studies have also shown that the combined pharmacological effects of cigarettes and alcohol can lead to a heightened sense of reward for the users.

In the new study, which used self-reported data, participants were between the ages of 18 and 25, living in the United States, and reported current smoking along with recent use of alcohol or marijuana, or both. The study recruited participants between October 2014 and August 2015 through a paid advertising campaign on Facebook. Altogether, there were 500 participants.

Using cross-sectional survey data, the researchers examined the extent of cigarette smoking under the influence of alcohol or marijuana, along with the differences in perceived pleasure. They found that individuals smoked more than 40 percent of their cigarettes under the influence of alcohol or marijuana.

"Since the main route of administration for marijuana is smoking, some aspects of marijuana use (such as the smoke, lighting of a joint, the throat feeling when inhaling smoke) may serve as cues that increase urges to smoke cigarettes," the authors write. "In addition, certain individuals may enjoy aspects of smoking in general, regardless of substance."

But both alcohol and marijuana users reported increased pleasure from smoking cigarettes when drinking alcohol—and this pleasure was not heightened by binge drinking. By contrast, there was on average no change in perceived pleasure from smoking cigarettes when using marijuana.

"Our findings point to different reasons why people co-use cigarettes with marijuana than with alcohol," said Johannes Thrul, PhD, co-first author of the study and a postdoctoral scholar at the UCSF Center for Tobacco Control Research and Education. "Smoking cessation interventions should highlight these differences and address co-use to effectively help people cope with triggers to smoke."

The authors noted some limitations in the study, including their focus on the enhancement of perceived [pleasure](#) of [smoking cigarettes](#) by [alcohol](#) or marijuana "rather than the ability of [cigarettes](#) to enhance the pleasurable effects of other substances."

Provided by University of California, San Francisco

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