Marijuana use has increased sharply across the US, but not because of legalization

September 12, 2017

Emeryville, CA: A new study from the Alcohol Research Group, a program of the Public Health Institute, shows a sharp increase in marijuana use in the U.S. since 2005. Marijuana use among women has almost doubled, from 5.5% in 1984 to 10.6% in 2015. Men’s use declined from the 1980s to 2000 but has since increased to 14.7%, matching earlier rates.

However, the research suggests that these increases in use were not specifically associated with medicinal or recreational marijuana legalization.

“Results are consistent with previous studies that did not show significant increases in use related to medicinal marijuana legalization,” said William C. Kerr, principal investigator of the study and senior scientist at the Alcohol Research Group. “Our findings suggest that U.S. society has become more tolerant and accepting of marijuana use and less concerned with risks, which has led to broader use. While it is still too early to judge the impacts of recreational marijuana legalization, it appears that the passage of these policies reflects changing attitudes towards marijuana use, rather than the other way around.”

According to the study, 12.9% of the population reported using marijuana in 2015, compared to just 6.7% 10 years earlier. The researchers used age-period-cohort (APC) modeling to determine that the recent increases in use could be attributed primarily to effects that occurred across all age groups, rather than changes occurring within specific age groups through cohort effects. Effects that happen across a population suggest that environmental factors such as changes in policies play a role, yet the study found no significant relationship between marijuana legalization in some states and higher rates of its use. At the time of the most recent survey in 2015, only Washington State, the District of Columbia, Alaska and Colorado had recreational legalization. Since then, California, Maine, Massachusetts, Nevada and Oregon have also legalized recreational marijuana. Twenty-four states had legalized medical marijuana use by 2015, and an additional five states have joined their ranks since then.

“We found that rates of use among older groups increased quite significantly since the 1980s, especially for men in their fifties and sixties,” said Kerr. “These increases are the results of both cohort and period effects. People born before 1945 had very low lifetime rates of marijuana use. With baby-boomers aging and participating in the general increasing trend, rates of use have risen steeply.”

The study was funded by the National Institute on Alcohol Abuse and Alcoholism. Researchers examined past year marijuana use of people age 18 and older from seven National Alcohol Surveys (NAS) spanning thirty-one years. The pooled sample included 21,298 females and 16,061 males. The NAS is a population-based survey of randomly selected U.S. adults. The Alcohol Research Group has conducted the survey every five years since 1979.
The study is available online September 12, 2017 in the journal *Addiction*. Other Alcohol Research Group co-authors included Camillia Lui and Yu Ye.

***


Research reported in this press release was supported by the U.S. National Institute on Alcohol Abuse and Alcoholism (NIAAA) of the National Institutes of Health under award number P50AA005595.

The content is solely the responsibility of the authors and does not necessarily represent the official views of NIAAA or the National Institutes of Health.

If you are interested in arranging an interview with William C. Kerr, Ph.D., please contact Diane Schmidt, communications specialist at the Alcohol Research Group at (510) 898-5819 or dschmidt@arg.org.

**About the Alcohol Research Group:** The Alcohol Research Group (ARG) is a program of the Public Health Institute. ARG is dedicated to improving public health through deepening our understanding of and developing preventive approaches to the implications of alcohol and other drug use.

**About the Public Health Institute:** The Public Health Institute, an independent nonprofit organization, is dedicated to promoting health, well-being and quality of life for people throughout California, across the nation and around the world.