

## Density of marijuana retailers linked to higher use among young adults

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As marijuana outlets open after the drug is legalized, the density of those recreational retailers is associated with more use and a greater intensity of use among young adults, according to a new RAND Corporation study.

The study is among the first to examine associations between the density of [marijuana](#) outlets and marijuana use over time, and is the first to include unlicensed dispensaries in such an analysis.

Studying [young adults](#) in Los Angeles County the year before and the year after marijuana was available for recreational purchase in retail shops in California, the study found that the density of licensed marijuana outlets was associated with young adults' marijuana use, heavy use and intentions to use. The density of unlicensed outlets was associated with young adults' heavy marijuana use and symptoms of cannabis use disorder.

The findings are published by *The American Journal on Addictions*.

"Efforts to regulate unlicensed retailers and reduce the density of marijuana retailers may be important factors to be considered when developing strategies to mitigate potential public health harms from expanded legal access to marijuana," said Eric Pedersen, lead author of the study and an adjunct researcher at RAND, a nonprofit research organization.

Young adults are an at increased risk group for heavy and problematic marijuana use. More than half of young adults initiate marijuana use by the age of 21, and heavy use in young adulthood can lead to subsequent physical and cognitive health problems.

Researchers have begun to examine how the density of marijuana outlets near schools and residential addresses are associated with use, but thus far most of that work has examined medical marijuana dispensaries in a time prior to the opening of recreational retail outlets.

The RAND study is based on two surveys of 1,097 young adults aged 21 and older from Los Angeles County who were asked about their

marijuana use a year apart—before and after the substance became available for purchase for recreational use in California in January 2018. Those surveyed are part of an ongoing RAND project examining multiple factors about the use of alcohol, marijuana and other drugs.

The study used geocoding techniques and multiple data sources about marijuana businesses to determine the density of both licensed and unlicensed marijuana retailers within four miles of participants' homes.

The study found that a higher number of licensed marijuana outlets within 4 miles of one's home was significantly associated with a greater likelihood of past-month [marijuana use](#) after controlling for any use the prior year.

For each additional licensed marijuana outlet, there was an expected 0.7% increase in the odds of using marijuana in the past month. For example, there was an approximate 10% increase in the odds of using marijuana for someone with 14 licensed outlets within a 4-mile radius compared with someone with no outlets.

The findings varied by specific marijuana outcome and by marijuana retailer licensure status. For licensed outlets, higher density was significantly associated with an increased likelihood of past-month use, increased likelihood of past month daily or near-daily use, and stronger intentions to use marijuana in the next 6 months.

For unlicensed outlets, which made up 62% of all outlets at the time of the second survey, higher [density](#) of outlets was significantly associated with an increased likelihood of past-month daily or near-daily use, and for those with past-year use, greater quantity consumed, and more symptoms of cannabis use disorder.

"Unlicensed retailers are illegal and do not abide by licensing

requirements that prohibit the sale of products from unlicensed producers or limiting the amount of marijuana that can be purchased by an adult each day," said Pedersen, who also is an associate professor of psychiatry and behavioral sciences at the Keck School of Medicine at USC. "Adults who use marijuana more frequently may be drawn to purchasing from unlicensed shops because of discounted prices and lack of regulation on purchase quantities."

**More information:** Eric R. Pedersen et al. Examining Associations Between Licensed and Unlicensed Outlet Density and Cannabis Outcomes From Preopening to Postopening of Recreational Cannabis Outlets, *The American Journal on Addictions* (2020). [DOI: 10.1111/ajad.13132](https://doi.org/10.1111/ajad.13132)

Provided by RAND Corporation

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