

E-cigarette use among teens may be higher than previously thought, study finds

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Juul, the popular e-cigarette brand that is being sued for fueling the youth e-cigarette epidemic, may have influenced high school students' perception of vaping such that some Juul users do not consider

themselves e-cigarette users, a Rutgers-led study finds.

The ubiquity of the term "Juuling" has created challenges for measuring e-cigarette use, so in a 2018 tobacco focused survey of 4,183 public [high school students](#) in New Jersey, researchers added Juul specific questions to assess e-cigarette use and found high school students reported higher use when Juul was included in the measure of e-cigarette use. In some cases, the addition of the Juul specific question resulted in dramatic increases in youth e-cigarette estimates, particularly for female students and black students. For example, e-cigarette prevalence nearly doubled among [black students](#) when Juul use was included.

The study, published in *JAMA Network Open*, suggests that [health officials](#) might be underestimating the prevalence of teen e-cigarette use.

"We've suspected that the brand Juul contributed to the increase of e-cigarette use among teens, but I think we were surprised at the extent of the brand's popularity among [young people](#)," said Mary Hrywna, an assistant professor at the Center for Tobacco Studies and the Rutgers School of Public Health who co-authored the study with Michelle B. Manderski, also from the Center and School of Public Health, and Cristine Delnevo, director of the Rutgers Center for Tobacco Studies. Hrywna added that "almost half of current e-cigarette users said Juul was the first e-cigarette product they tried and more than half of the high students reported seeing people use Juul on school grounds."

Researchers found that current and frequent e-cigarette use was highest among 12th graders and in fact one out of ten [high school seniors](#) reported using e-cigarettes on 20 or more days in the 30 days preceding the survey.

"This pattern of heavy use is consistent with nicotine addiction," Delnevo said. "It's however not surprising given the high nicotine

delivery of Juul".

"We need to think more carefully about how future questions are constructed when assessing e-cigarette use among teens," Hrywna said. "Policymakers must understand how certain brands have driven [e-cigarette use](#) and carve out policies that address restrictions by age and location as well the high nicotine concentrations in these products if we hope to reduce these prevalence rates."

More information: Mary Hrywna et al. Prevalence of Electronic Cigarette Use Among Adolescents in New Jersey and Association With Social Factors, *JAMA Network Open* (2020). [DOI: 10.1001/jamanetworkopen.2019.20961](#)

Provided by Rutgers University

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