JUUL and the Vaping Epidemic

In 2018, e-cigarette use soared by **76** % among American high school students, with **one in five** reporting some experience with vaping. 1



The increase coincides with the explosive growth of JUUL, which captured **more than 75%** of the e-cigarette market in 2018.²

Many teens are attracted to JUUL by its sleek design, which resembles a flash drive, and by youth-friendly flavors including Mango, Creme and Cucumber³.

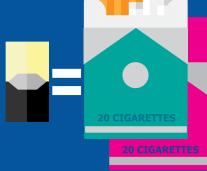
Most are unaware that JUUL products contain nicotine.4

JUUL is Nicotine

"E-juice" used in vaping contains varying levels of nicotine, the addictive drug found in tobacco.

"JUULpods" contain nicotine salts designed to provide a faster, more potent dose than leaf tobacco. JUULpods contain **41.3mg** of nicotine: the equivalent of smoking about **40 combustible cigarettes**.⁵

JUUL's success has led to a "nicotine arms race" and average nicotine levels in all brands of e-juice have **more than doubled** over the past 5 years. ⁷



The Risks

Teens who vape are **almost three times more likely** to become cigarette smokers than those who don't.8 Nicotine use during adolescence:

- risks life long addiction
- negatively impacts learning, memory, and attention
- increases the likelihood of depression and risktaking behavior.⁹

What to Do

- Engage teens and young adults in discussions of JUUL and vaping.
- Learn more about the risks:
 https://e-cigarettes.surgeongeneral.gov
- Support quit attempts: Call 1-800-NO-BUTTS, or visit https://www.nobutts.org/free-services-for-smokers-trying-to-quit.

References:

- 1. Cullen, K.A., et al. (2018). Notes from the field: Increase in use of electronic cigarettes and any tobacco product among middle and high school students United States, 2011-2018. MMWR, 67(45), 1276-1277
- 2. Craver, R. (2019, January 8). Juul ends 2018 with 76 percent market share. Winston-Salem Journal.
- 3. Chen, A. (2017, December 4). Teenagers embrace Juul, saying it's discreet enough to vape in class. National Public Radio. Retrieved from https://www.npr.org/sections/health-shots/2017/12/04/568273801/teenagers-embrace-juul-saying-its-discreet-enough-to-vape-in-class.
- 4. Truth Initative. (2018, April 18). Juul e-cigarettes gain popularity among youth, but awareness of nicotine remains low. Retrieved from https://truthinitiative.org/press/press-release/juul-e-cigarettes gain popularity among youth awareness placetine processes.
- cigarettes-gain-popularity-among-youth-awareness-nicotine-presence.
 5. Stanford Medicine. (2019). Stanford Tobacco Prevention Toolkit: Unit 6 What are JUULs & other pod-based systems? [PowerPoint slides]. Retrieved from https://med.stanford.edu/tobaccopreventiontoolkit/E-Cigs/ECigUnit6.html.
- 6. Jackler, R.K. & Ramamurthi, D. (2019). Nicotine arms race: JUUL and the high-nicotine product market. Tobacco Control, February. doi: 10.1136/tobaccocontrol-2018-054796
- 7. Romberg, A.R., et al. (2019). Patterns of nicotine concentrations in electronic cigarettes sold in the United States, 2013-2018. Drug and Alcohol Dependence, 203(1).
- 8. Berry, K.M., et al. (2019). Association of electronic cigarette use with subsequent initiation of tobacco cigarettes in U.S. youths. JAMA Open Network, e187794. 9. Office of the Surgeon General. (2018). Surgeon General's advisory on e-cigarette use among youth.
- ROVER