VAPING IN OUR COLLEGE COMMUNITY

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Picot Question

How does juuling affect the health of college students who do juul compared to the students who don't juul over their 4 years of college?



What is Juuling?

Juuling is a form of vaping using an electronic device to create an aerosol that is then inhaled. Juuls, which were originally created as an alternative to combustible cigarettes, are used with liquid-containing pods; when heated up in the Juul, the liquid is converted into an aerosol, which is then inhaled into the lungs.



What is in a Juul?

- The Juul consists of two main parts, the device and pod.
- The liquid in the Juul pod is a salt based nicotine formula.
- The formula in a single Juul pod contains a mixture of glycerol and propylene glycol, benzoic acid, and nicotine.
- They also contain a flavorant, which is available in a wide variety of flavors.

WARNING: This product contains nicotine. Nicotine is an addictive chemical.



Why is it so popular amongst College kids?

College age students ages 18-24 are more likely to try vaping products due to stress, peer pressure, and popularity. Many companies market to the youth population because they are more vulnerable and susceptible to trying new things. Also, vaping causes individuals to feel more relaxed and less anxious which is what most college students want to feel before a big exam and while studying. Many college students who use e-cigarettes are under the pretense that vaping is safer alternative to smoking.



How does JUULing affect Schooling?

- The use of a Juul, can contribute to a slower development of the brain. This can impact a college student while they are in class. The student may experience difficulties when trying to concentrate and pay attention to the class. They may also, have trouble remembering topics discussed in class. These consequences can have a negative impact on the student's grades.
- Juuls are associated with behavior risks. Due to this risk, a student may skip class to partake in risky activities.





Charts and Statistics

Growing shares of U.S. secondary school, college students vape regularly

% who reported any vaping during the last 30 days



Note: Pre-2017 survey asked about "any vaping." Data after 2017 based on separate questions about vaping nicotine, marijuana, and just flavoring.

Source: University of Michigan Monitoring the Future survey.

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How does juuling affect the human body?

Short Term Effects

- Shortness of _____ breath
- Sore Throat
- Coughing
- Nausea

Long Term Effects

- Lung disease
- Diabetes
- Heart Disease
- Pneumonia



Lung & Brains before & after

- The lungs of a college student who does not vape or do any other kind of smoking should look pink and plump.
- The brain should appear smooth and have an adequate amount of blood flow.
- The lungs of a college student who uses vape products look healthy but with further investigation the lungs begin to form pockets and blebs which can lead to lung cancer and collapsed lungs.
- The brain of a is slowing becoming damaged in the prefrontal cortex.









Ways to quit juuling

- You can access a program by texting "DITCHJUUL" to 88709 or enrolling in the free, digital quit programs
- Seek support
- Find other productive activities to do
- Keep going even if you fail the first time
- Know the facts about nicotine



Take Home

The take home message for college students who use JUUL or any other e-cigarette products is that the chemicals used in these products are harmful and addictive. Excessive vaping can possibly lead to lung cancer. The high amounts of nicotine found in these products give a satisfying, rewarding, and pleasurable feel but it can also cause tachycardia, hyperinsulinemia, and suppression of appetite. Continuing the use of nicotine will only diminish your health and cause harm in the future, which is why it is important to quit now and find a safer way to cope.



References

American Academy of Family Physicians (2020). "Dangers of Vaping". Retrieved February 28, 2020, from

https://familydoctor.org/dangers-of-vaping/

Ann, D., & Corey, J. (n.d.). Attitudes of College-aged Electronic Cigarette Users in Hawaii, 5(1).

Bourdon, J., & Hancock, L. (2019, August). Using electronic audience response

technology to track e-cigarette habits among college freshmen. Retrieved February 26,

2020, from https://doi.org/10.1016/j.addbeh.2019.02.019

Chadi, N. (2019, November 25). Protecting Youth From the Risks of Electronic Cigarettes. Retrieved April 4,

2020, from https://doi.org/10.1016/j.jadohealth.2019.10.007

Lanza, H. I., & Teeter, H. (2018). Electronic Nicotine Delivery Systems (E-cigarette/Vape) use

and Co-Occurring Health-Risk Behaviors Among an Ethnically Diverse Sample of

Young Adults. Substance Use & Misuse, 53(1), 154–161.

https://doi.org/10.1080/10826084.2017.1327975

Meka, T. (2018). "Smoking Evolved?" Perceptions and Use of JUUL Products Amongst College

Students. Retrieved February 18, 2020, from https://www.providence.edu/

References continued

Protecting Youth From the Risks of Electronic Cigarettes. (2020). Journal of Adolescent Health,

- 66(1), 127-131. https://doi.org/10.1016/j.jadohealth.2019.10.007
- .Sidania, J., B.Colditz, J., Erica L.Barretta, A. S., Everette James, A., & A.Primackc, B. (2019, August 30). I wake up and hit the JUUL: Analyzing Twitter for JUUL nicotine effects and dependence.

Retrieved February 25, 2020, www.elsevier.com/locate/drugalcdep

Syal, A. (2019, November 17). A closer look at vaping and e-cigarettes on college campuses. Retrieved from

https://www.wildcat.arizona.edu/article/2019/11/n-vaping-health

Team, F. H. (2020, April 9). Does Saliva Have Health Risks? 3 Ways Germs Can Spread. Retrieved from

https://health.clevelandclinic.org/does-saliva-have-health-risks-3-ways-germs-can-spread/

U.S. Department of Health and Human Services, E-Cigarette Use Among Youth and Young Adults. A Report of the Surgeon General. Atlanta, GA: U.S. Department of Health and Human Services,

Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Office on Smoking and Health, 2016.

Yingst, J. M., Foulds, J., Veldheer, S., Hrabovsky, S., Trushin, N., Eissenberg, T. T., Williams, J., Richie, J. P., Nichols, T. T., Wilson, S. J., & Hobkirk, A. L. (2019). Nicotine absorption during electronic cigarette use among regular users. *PLoS ONE*, 14(7), 1–15. https://doi.org/10.1371/journal.pone.0220300