

Research Questions

- Is vaping status related to risk perception of vaping among American youth?
- Does cigarette smoking status moderate this relationship?

Significance

- Most vaporizers and e-cigarettes contain nicotine, a known highly addictive substance.
- CDC reported e-cigarette use since 2017 has increased 78% among high school students and 48% among students in middle school (Morgan, 2019).

Background

- In 2014, 16% of 10th graders reported using e-cigarettes in the past 30 days; 43% had never smoked a combustible cigarette (Morgan, 2019).
- Current and former users view harm and addiction potential significantly lower than non-users (Russell et al., 2019).
- Studies revealed teenagers begin vaping because of curiosity/experimentation and are often unaware of the potential harms of vaping. (Patrick et al., 2016).

Hypotheses

- Adolescents who have vaped are more likely than those who have never vaped to view the risks as minimal.
- Associations are greater in adolescents who have smoked cigarettes than those who have never smoked cigarettes.

Data and Sample

- Monitoring the Future Survey (N=29,980).
- Nationally representative sample of 8th & 10th graders enrolled in U.S. schools.

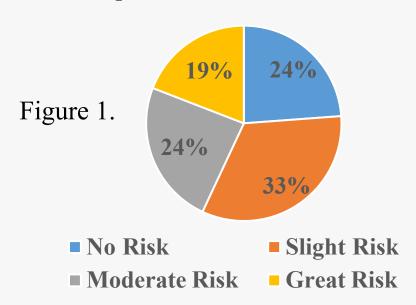
The Substance of Perception: Harm Perception of Vaping and Vape Use Among 8th and 10th Graders in the U.S.

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Dependent Measure

Perception of Vaping Risk

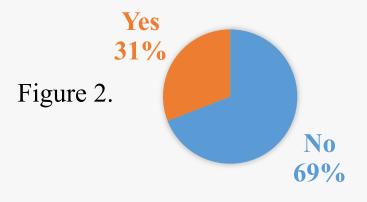
• "How much do you think people risk harming themselves, if they . . . Vape an e-liquid with nicotine occasionally?"



Independent Measure

Vaping Status

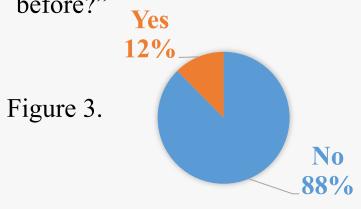
• "Have you ever vaped before?"



Control Measure

Smoking Status

"Have you ever smoked a cigarette before?"



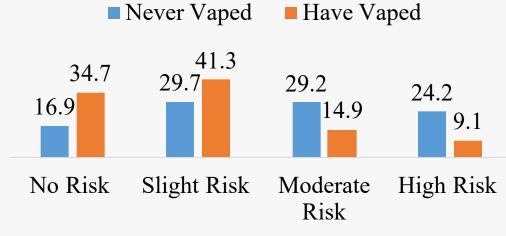
Analysis

• Cross tabulation and Chi-square test using SPSS.

Results

Figure 4.

Vaping Risk Perception Among 8th & 10th Grades: All Students

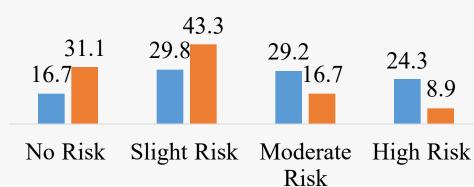


Chi-square test for risk perception is significant at ***p < .001.

Figure 5.

Vaping Risk Perception Among 8th & 10th Grades: Never Smoked

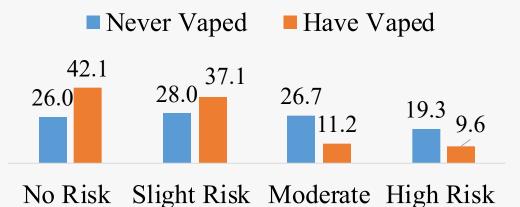
Never Vaped Have Vaped



Chi-square test for risk perception is significant at ***p < .001.

Figure 6.

Vaping Risk Perception Among 8th & 10th Grades: Have Ever Smoked



Risk Chi-square test for risk perception is significant at ***p < .001.

Summary of Findings

- Overall, one-third of 8th and 10th graders view vaping as "slight risk" and about one-fifth view it as "moderate risk."
- About one-fifth view it as "no risk."
- Views of vape risks are correlated with vape status: perceived less risk from vaping is more common among students who have vaped than students who have not.
- The association is found whether or not students have ever tried combustible cigarettes.
- Individuals who have smoked cigarettes and vaped are the most likely to view vaping as "no risk."

Policy Implications

- Need to provide young people with more education and information about the harms that are associated with the specific nicotine use of vaping.
- Education and advertisement to prevent teenage vape use should be more than shaking your vape in a bottle of soda to show how cool it is to quit.
- Have treatment options for adolescents who want to quit, using proven safe methods.

References

Morgan, A. J. (2019). Are Vape Pens the New Cigarette? The FDA's Impending Quest to Regulate the E-Cigarette and its Effect on Society's Youth. *DePaul Journal of Health Care Law*, 21. Retrieved on April 22 from https://via.library.depaul.edu/jhcl/vol21/iss2/2.

Russell, C., Katsampouris, E., & Mckeganey, N. (2019). Harm and addiction perceptions of the JUUL e-cigarette among adolescents. *Nicotine & Tobacco Research*. 22(5), 713-721.

Patrick, M., Miech, R., Carlier, C., O'Malley, P., Johnston, L. & Shulenberg, J. (2016). Self-reported reasons for vaping among 8th, 10th, and 12th graders in the US: Nationally-representative results. *Drug and Alcohol Dependence*, 165, 275-278.