

BACKGROUND

VAPE USAGE AMONG HIGH SCHOOLERS<sup>1</sup>



MENTAL HEALTH AND VAPING



Adolescents who vape are more likely to have mental health challenges.<sup>2</sup>



Higher rates of vape use is associated with higher depressive symptoms.<sup>3</sup>

### **TOBACCO INDUSTRY INFLUENCE**





Did you sleep well last night? Suffered from insomnia? Tip: Light a scented candle and vape for a while before you go to bed. That helps a lot!

Vape companies promote their products as sources of relief to issues that relate to mental health, such as insomnia.<sup>4</sup>

### PURPOSE

The purpose of this poster is to examine risk factors associated with vaping and whether students' mental health predicted their likelihood of vaping. Gender and racial/ethnic differences in vaping behavior and perceived susceptibility were also examined.

# **Examining Mental Health Symptoms as Predictors of** Vaping and Susceptibility Among Kentucky Adolescents

# Odunavo Omotilewa, M.S., Candice Davis, M.A., Raphael Adesivan, M.Ed., Julia Estes, B.A., Melinda J. Ickes, Ph.D. METHODS

- Data were collected from 1,951 middle and high school students from schools participating in a prevention program (baseline data only) between August and December 2022 using an online survey.
- Passive parental consent and student assent were obtained prior to participation.
- A preliminary correlation analysis examining the relationship between mental health symptoms and vaping behavior was explored.

# **OUTCOME MEASURES**

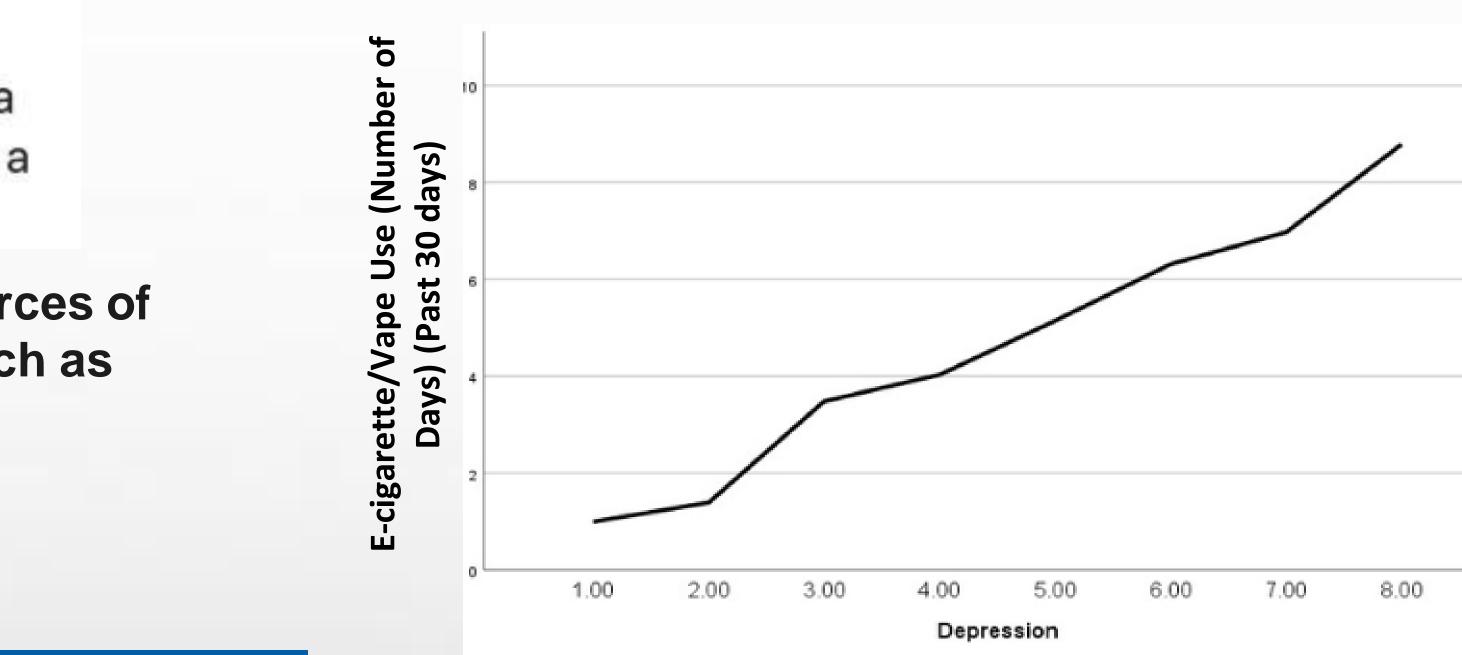
- Vaping susceptibility 3-items (use if best friend offered, think you will try vape in the next year, thought about using even once or twice)
- Vape use past 30 days use
- Mental health anxiety, depression symptoms

### RESULTS

### **MENTAL HEALTH & VAPING BEHAVIOR**

### Mental health was a significant predictor of daily vaping behavior (*Figure 1*).

• The overall regression model was a significant predictor of daily vaping product use ( $R^2 = .60$ , F(2,932) = 29.68, p < .001), with only depression adding significantly to the model.



# **MENTAL HEALTH & VAPING SUSCEPTIBILITY**

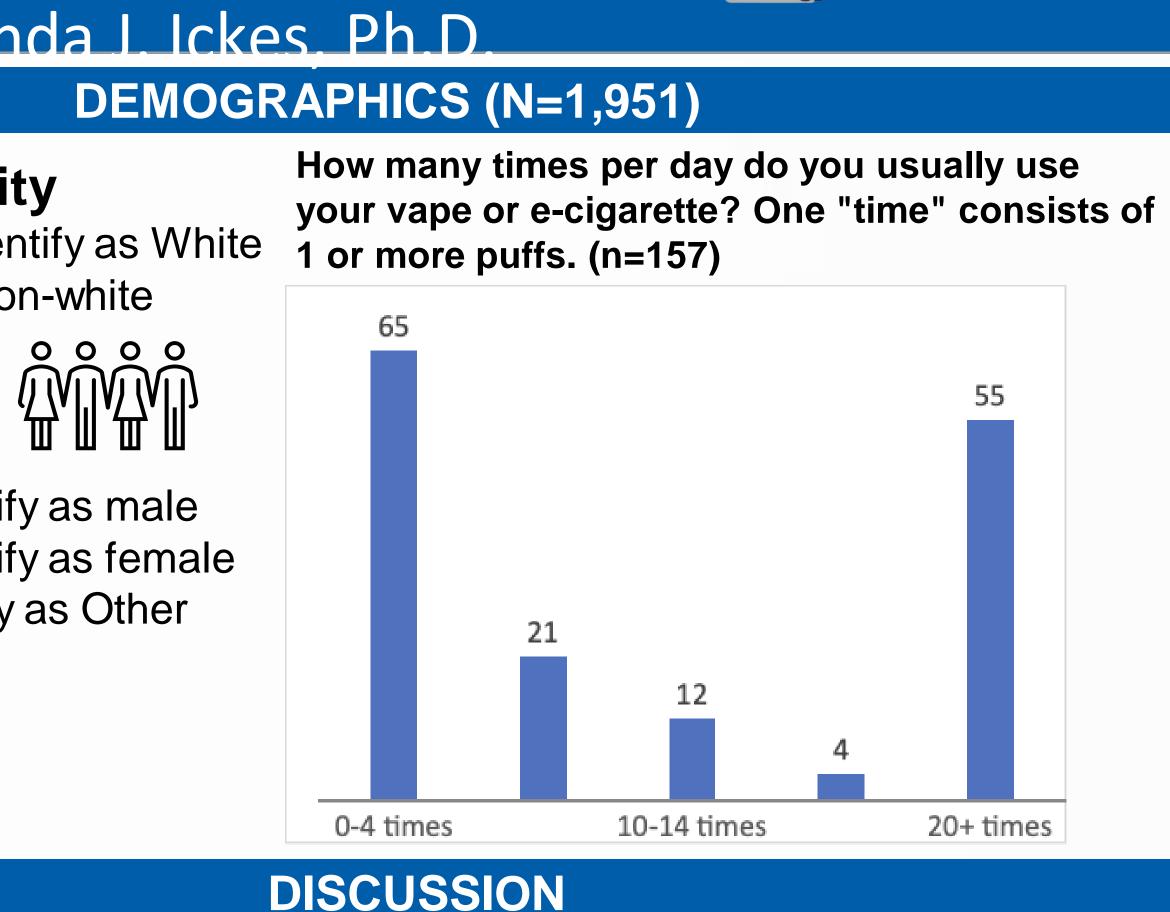
# Mental health was a significant predictor of susceptibility.

• The overall regression model was a significant predictor of (R<sup>2</sup> = .111, F(2, 1900) = 118.43, p < .001), with only depressive symptoms adding significantly to the models.

# **GENDER AND RACIAL/ETHNIC DIFFERENCES**

• Gender and race/ethnicity did not contribute to the effect that mental health had on students' vaping behavior or susceptibility.

- Race/Ethnicity
  - 83.26% of identify as White
  - •16.74% are Non-white



- Gender
  - **49.16%** identify as male
  - **45.52%** identify as female
  - **5.32%** identify as Other
- lower reports of depression.
- using vaping products.
- self-reported data.
- anxiety.



Continue to educate students, parents, teachers, and healthcare personnel on the impact of vaping on mental health & the Tobacco Industry's manipulative ads.



Encourage those working with youth to discuss mental health problems with youth.



Advocate for non-punitive measures when implementing consequences for youth vape users.



 Students who reported experiencing feelings associated with depression are more likely to use and be susceptible to trying vaping products more frequently than students with

Identifying depression, anxiety, and other mental health symptoms as possible risk factors can help parents,

educators, and mental health practitioners become aware of behaviors that might indicate that a student is at risk of

Identifying risk factors of vaping will also be helpful for future prevention programs focused on reducing youth vaping.

# LIMITATIONS

• There is the potential for social desirability bias for online

 Mental health outcomes were not looked at over time and for this analysis, these were limited to depression and

• Results may not be generalizable across all adolescents.

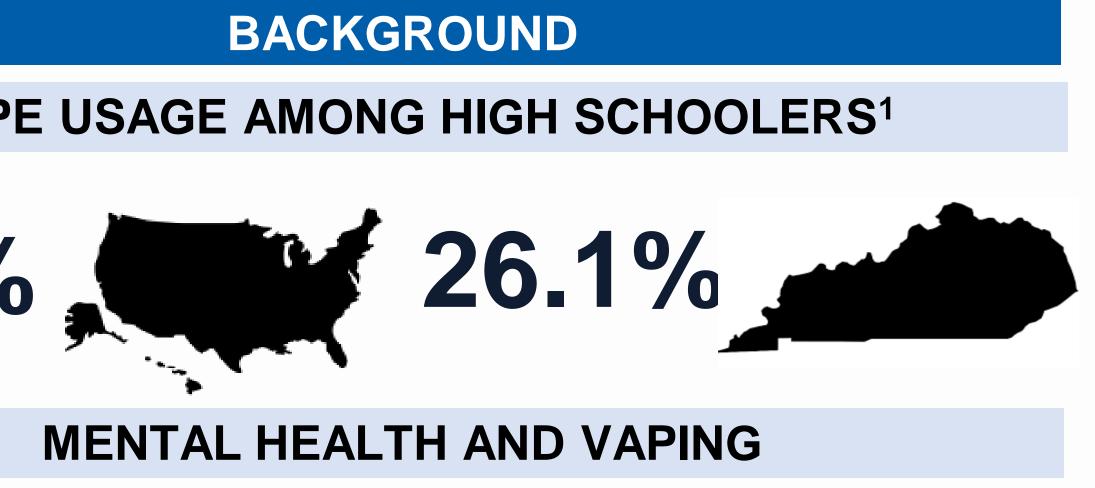
# **TAKING ACTION**





### VAPE USAGE AMONG HIGH SCHOOLERS<sup>1</sup>

# 11.3%





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Higher rates of vape use is associated with higher depressive symptoms.<sup>3</sup>

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### PURPOSE

The purpose is to describe the reach of a near peer ecigarette prevention and empowerment program, #iCANendthetrend, among participating students in Kentucky and to determine racial and geographic differences in reach.

# Supporting Prevention Programming to Reach Kentucky Counties and Students Equitably Julia Estes, B.A., Odunayo Omotilewa, M.S., Candice Davis, M.A., Melinda J. Ickes, Ph.D.

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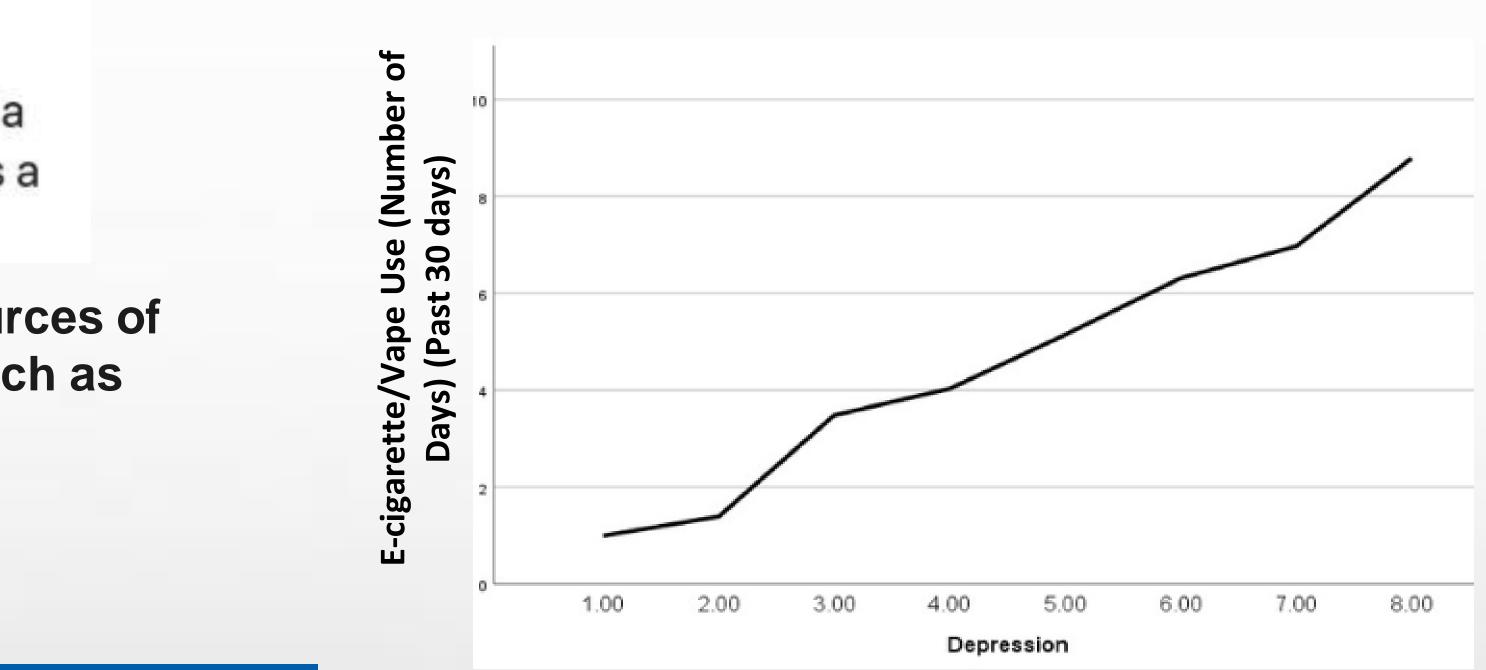
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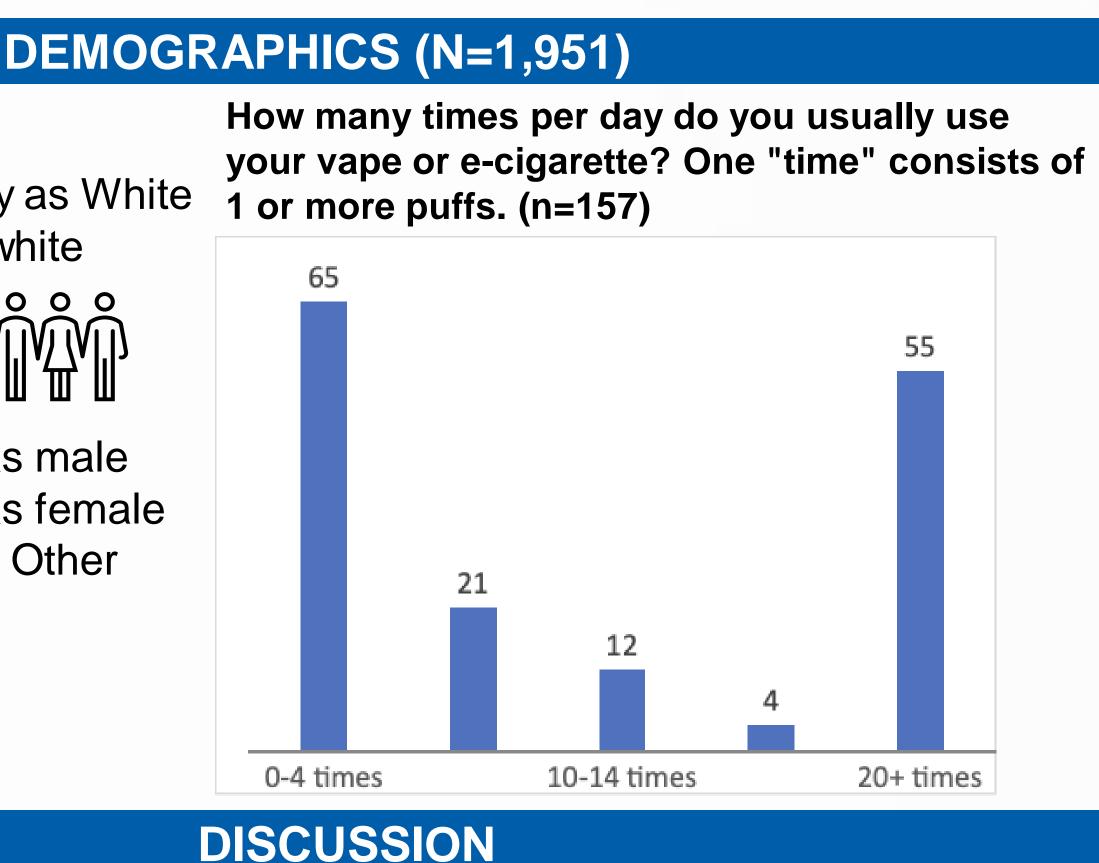


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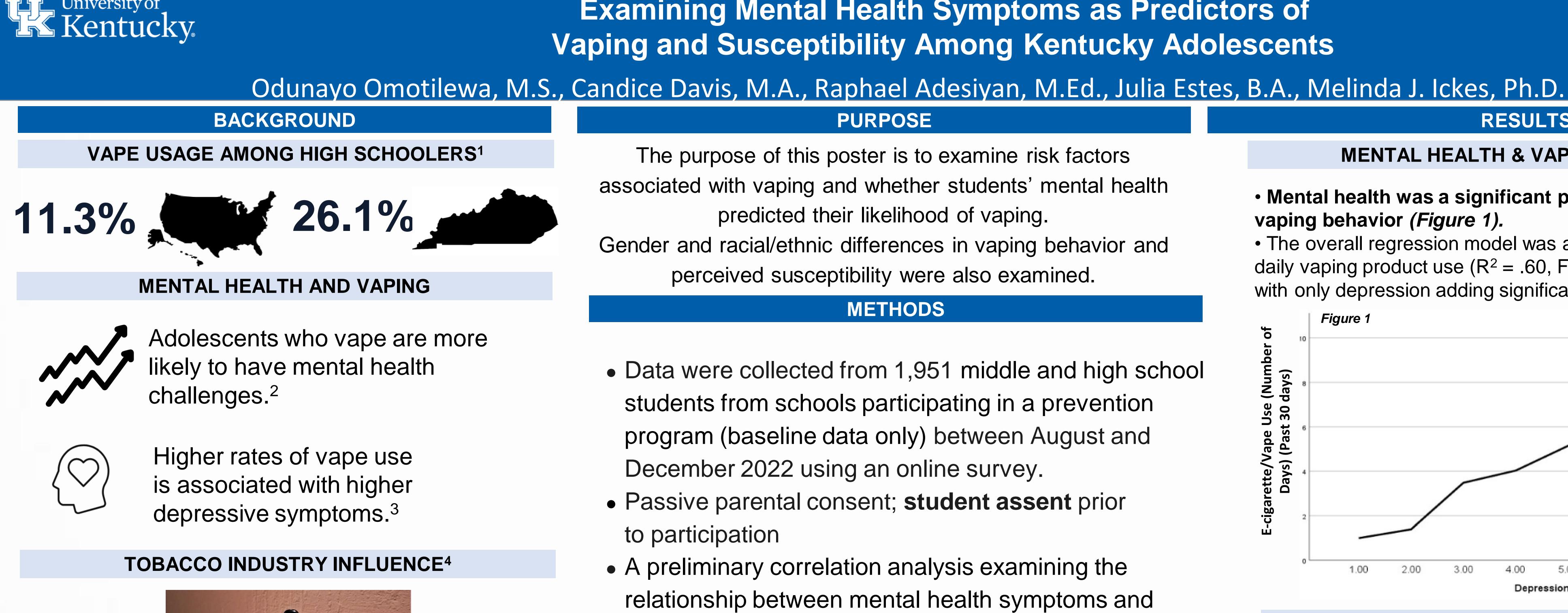
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# **TAKING ACTION**





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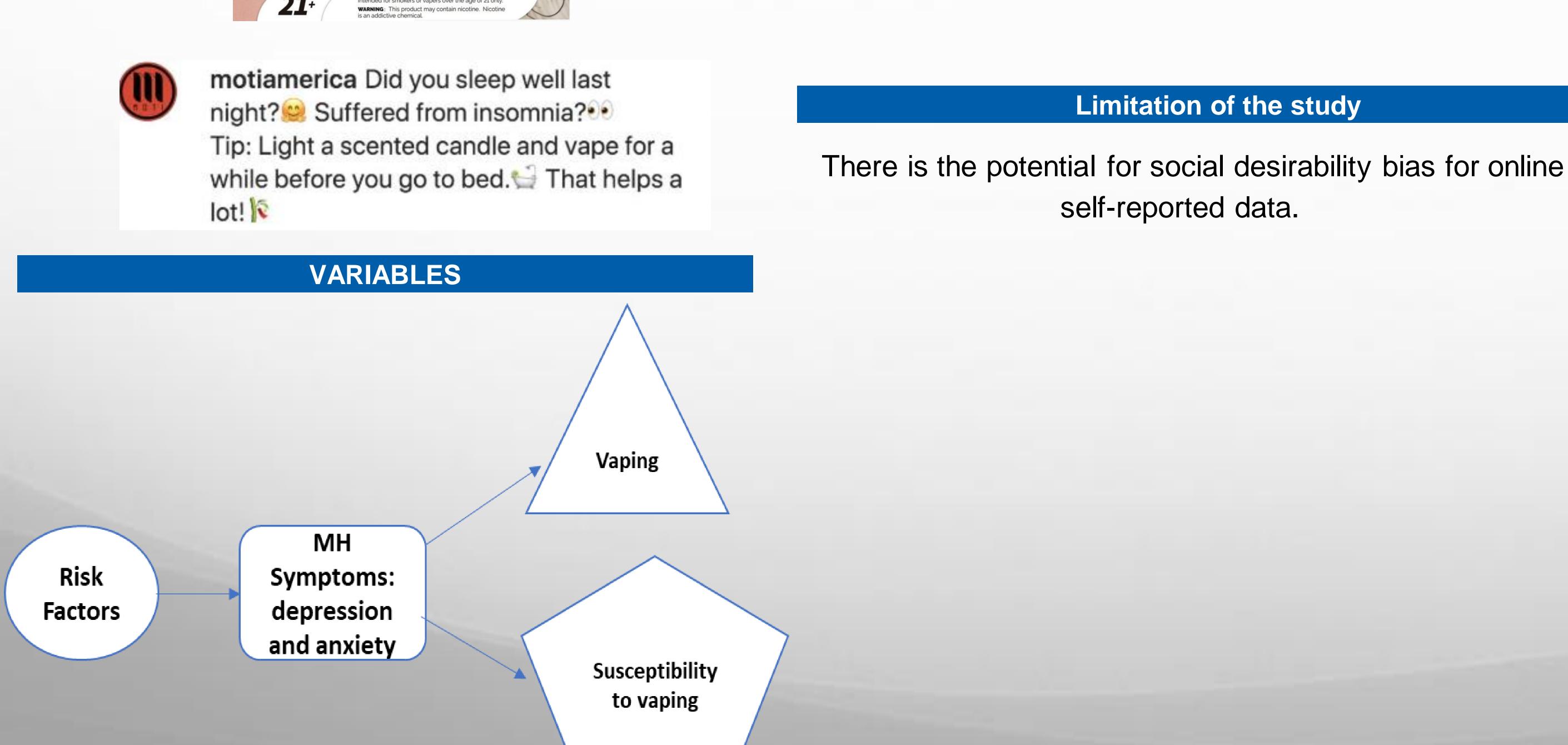
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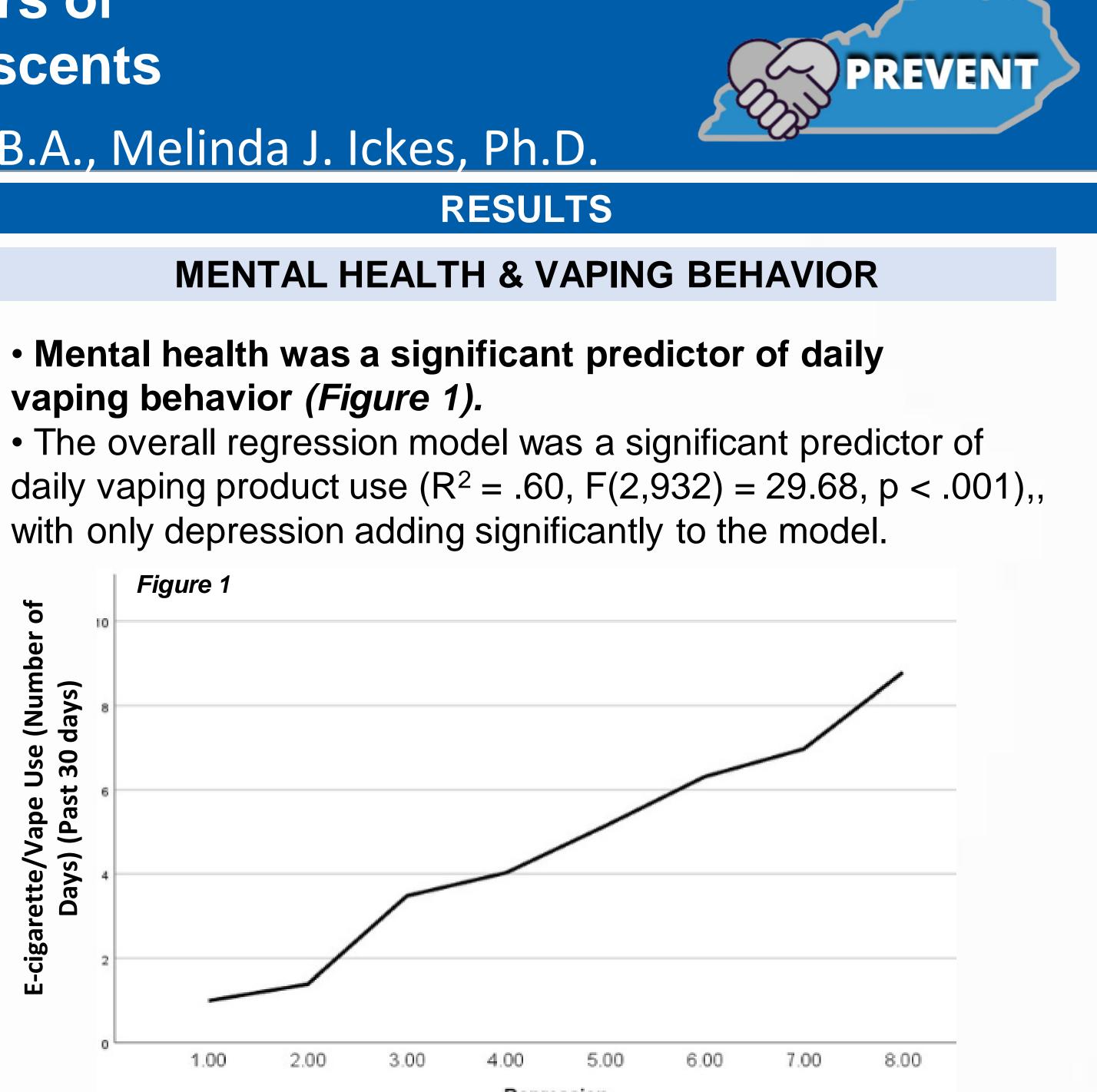








vaping behavior suggests that mental health symptoms such as depression and anxiety can predict the risks of vaping behavior (daily frequency of use) and



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Depression

• Gender and race/ethnicity did not contribute to the effect that mental health had on students' vaping behavior or susceptibility

### DISCUSSION

• Students who reported experiencing feelings associated with depression are more likely to use and be susceptible to trying vaping products more frequently than students with lower reports

• Identifying depression, anxiety, and other mental health symptoms as possible risk factors can help parents, educators, and mental health practitioners become aware of behaviors that might indicate that a student is at risk of using vaping products. • Identifying risk factors of vaping will also be helpful for future prevention programs focused on reducing youth vaping.

### **TAKING ACTION**

- Advocate for non-punitive measures when
- implementing consequences for youth vape users.

