**TCORS 2.0** University of Michigan & Georgetowr

University

**C**enter for the Assessment of Tobacco **R**egulations [CAsToR]

## Background

• Vaping is a public health concern and electronic nicotine delivery systems (ENDS) can be used to consume not only nicotine but also marijuana. However, patterns of nicotine and marijuana vaping among US adults are not well understood.

## **Methods**

## Data

- Population Assessment of Tobacco and Health (PATH) Study Wave 4 (Dec. 2016 to Jan. 2018)
- Restricted to adults (18+) current (past-30-day) ENDS users (n=3,795)

### Measures

Four categories of current vaping:

- Nicotine only
- Marijuana only
- Nicotine and marijuana
- Non-nicotine/non-marijuana e-liquid

Sociodemographic predictors:

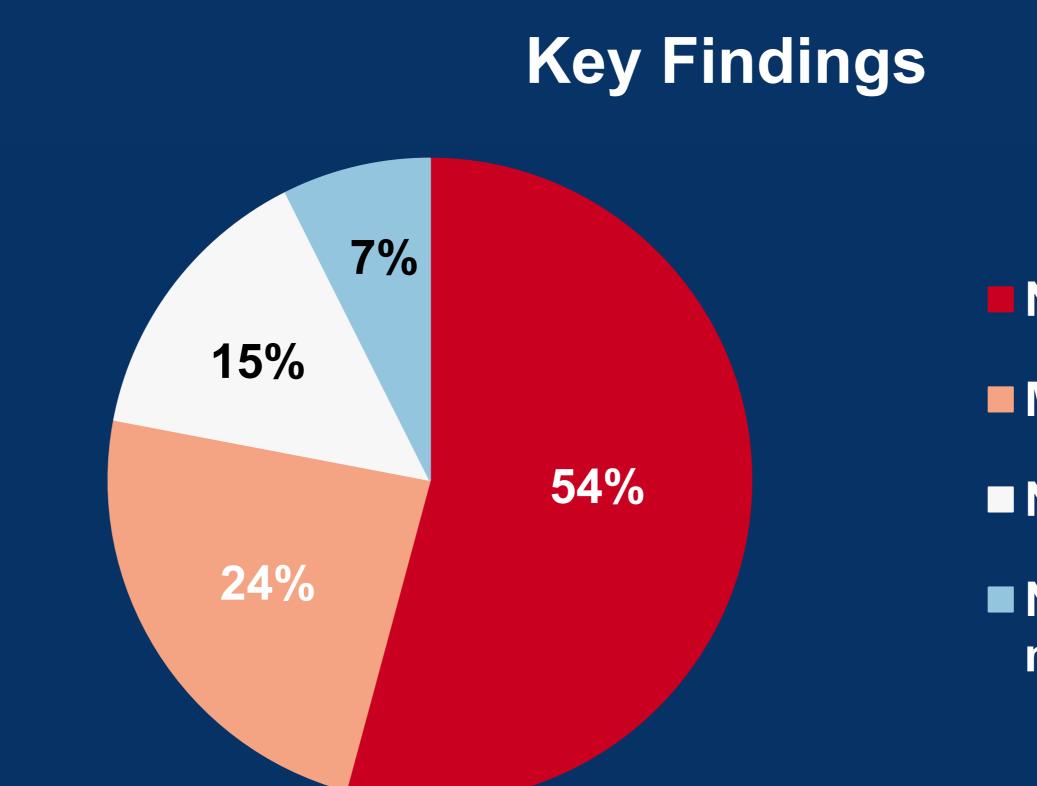
- Age
- Sex
- Race/ethnicity
- Sexual orientation status
- Educational attainment
- Annual household income

## Statistical Analysis

- Weighted prevalence estimates
- Adjusted multinomial logistic regression (ref: nicotine only)

## Sociodemographic Differences in Patterns of Nicotine and Marijuana Vaping Among US Adults

Delvon T. Mattingly, Akash Patel, Jana L. Hirschtick, Nancy L. Fleischer Department of Epidemiology, University of Michigan School of Public Health



• Young adults (aged 18-24) (vs. adults aged 35+) had at least 3x higher odds of vaping marijuana only, nicotine and marijuana, and non-nicotine/non-marijuana e-liquid, compared to nicotine only.

• Hispanic and non-Hispanic (NH) Black (vs. NH White) adults had 2.5-3x higher odds of vaping marijuana only and non-nicotine/nonmarijuana e-liquid, compared to nicotine only.

• Sexual minority adults (vs. heterosexual adults) had 1.5x higher odds of vaping nicotine and marijuana, compared to nicotine only.

- Nicotine only
- Marijuana only
- Nicotine and marijuana
- Non-nicotine/nonmarijuana e-liquid

# HELPER HEAL IN EP





Funding: This research was supported by the National Cancer Institute of the National Institutes of Health (NIH) and FDA Center for Tobacco Products (CTP) under Award Number U54CA229974. The content is solely the responsibility of the authors and does not necessarily represent the official views of the NIH or the Food and Drug Administration.

## Conclusions

 Nearly half of adult current ENDS users vaped something other than nicotine only. Vaping reduction efforts must recognize adults who vape marijuana, or adults who vape neither nicotine nor marijuana.

## **Tobacco Interest Statement**

Interventions and policies aimed at reducing ENDS use and nicotine intake need to consider the rise in marijuana vaping and the complexity behind people who do not vape either substance.

## Abstract



**Tables** 

