TCORS 2.0

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Center for the Assessment of Tobacco Regulations

SIGNIFICANCE

ENDS use among adolescents has increased substantially over the past decade, but little is known about its impact on chronic respiratory health conditions such as asthma.

METHODS

Population: Youth ages 12-17 in 2013-2014 from Population Assessment of Tobacco and Health Study, Waves 1-5 (2013-2019)

Exposure: Time-varying, lagged (t-1) tobacco use in the past 30 days:

- (1) never or non-current use
- (2) exclusive cigarette use
- (3) exclusive ENDS use
- (4) dual use

Outcome: Parent or self-reported incident diagnosed asthma

Covariates: Baseline sociodemographic (age, sex, race/ethnicity, parental educational attainment) and other risk factors (urbanicity, secondhand smoke exposure, household combustible tobacco use, and BMI-for-age.

Analysis: Discrete time survival models

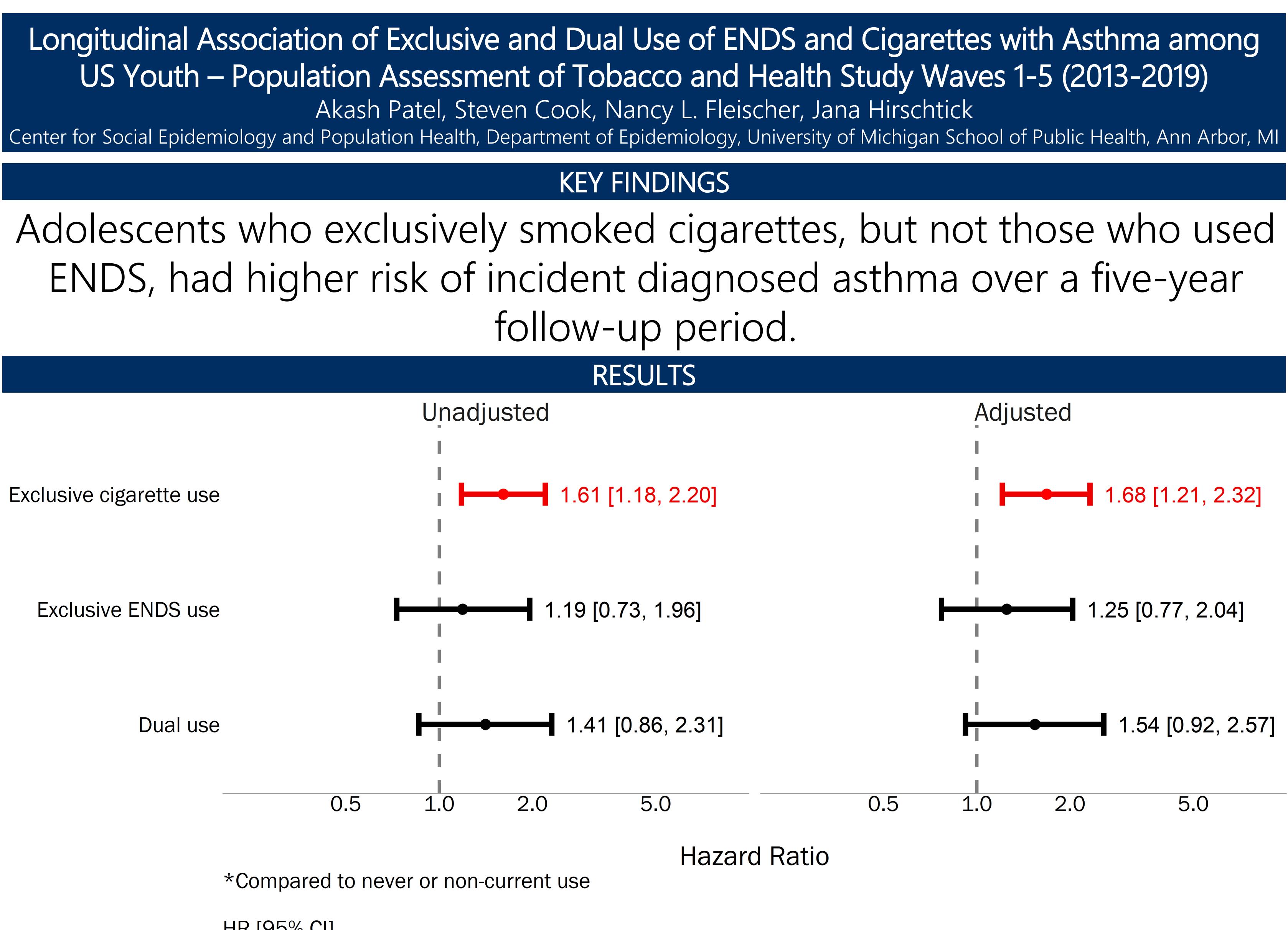
DISCLOSURE INFORMATION

Funding Statement: Research reported in this Exclusive cigarette use increased the risk of incident diagnosed asthma (adjusted Hazard Ratio (aHR): 1.68, 95% CI: (1.21, 2.32)) publication was supported by the National Cancer compared to never or non-current ENDS and cigarette use over a five-year follow-up period. Institute of the National Institutes of Health (NIH) and FDA Center for Tobacco Products (CTP) under Award Compared to never or non-current use, the risk of incident diagnosed asthma was not significantly different for exclusive ENDS use Number U54CA229974. (aHR: 1.25, 95% CI: (0.77, 2.04)) and dual use (aHR: 1.54, 95% CI: (0.92, 2.57)) over the same period of follow-up.

The content is solely the responsibility of the authors Additional studies are needed to better assess the long-term association between ENDS use and incident diagnosed asthma as and does not necessarily represent the official views of the NIH or the Food and Drug Administration. more prospective longitudinal data becomes available.

Conflicts of Interest: None.

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HR [95% CI] Person N = 9,140; Risk Period N = 39,554



CONCLUSIONS





HELPER HEALTH EQUITY, LAW, & POLICY IN EPIDEMIOLOGIC RESEARCH