Trends in single-, dual-, and poly-tobacco use among US adults, 2014-2019: Results from two nationally representative surveys

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Background

• While numerous investigations of patterns of dual- and poly-tobacco use exist, trends in patterns of tobacco product use over time are not well documented.

Data & Measures

• We used two nationally representative surveys of the noninstitutionalized adult US population:
  • 2015-2018 National Health Interview Survey (NHIS)
  • 2014/15 & 2018/19 Tobacco Use Supplement to the Current Population Survey (TUS-CPS)

• We created a current (every/some day use) patterns-of-tobacco use variable of the following tobacco products:
  • Cigarettes
  • Electronic nicotine delivery systems (ENDS)
  • Other combustibles (OC) (i.e., cigars/cigarillos/little filtered cigars and traditional pipe/hookah)
  • Smokeless tobacco (SLT)

• We used modified Poisson regression to estimate prevalence ratios of change in product use over time, adjusted for age, sex, race/ethnicity, education, and income

Results – Population Trends Over Time

Results – Adjusted Prevalence Ratios of the Change in Product Use Over Time

Key Findings

• Exclusive ENDS use increased while cigarettes + ENDS dual use decreased over time

• The increase in cigarette + OC over time in NHIS but the decrease in TUS-CPS suggests inter-survey differences in tobacco use prevalence

• Continued monitoring of dual/poly-tobacco use is needed to determine at-risk populations

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