

Call of Abstracts - “International conference on the E-Cigarette: patterns of use and health impacts”



Call of abstracts

“International conference on the E-Cigarette: patterns of use and health impacts” - Paris, on 5-6th December 2022

Submission form

Poster & oral presentation

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Background information

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Oral

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Abstract title

Birth-cohort patterns of e-cigarette use among adolescents in the US

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Abstract details (poster & oral)

Background, method, results and conclusions

Background

E-cigarette use has increased considerably among US adolescents. While many studies have described cross-sectional prevalence trends of youth e-cigarette use, less is known about cohort or generational initiation and use patterns.

Methods

We used data from the US National Youth Tobacco Survey (NYTS) from 2014 to 2021 and age-period-cohort models to analyze age-specific patterns of e-cigarette use initiation and prevalence by cohort and calendar. For comparison, we also examined patterns of use initiation and prevalence for cigarettes, cigars, and smokeless tobacco, using NYTS data from 1999 to 2021.

Results

Age-specific e-cigarette initiation and prevalence varied enormously by calendar year and birth cohort.

There was a rapid increase in e-cigarette initiation and prevalence starting with the 1995 birth cohort, peaking with the 2005 birth cohort, and now apparently decreasing with more recent cohorts. In contrast, there were substantial decreases in cigarette, cigar, and smokeless use initiation and prevalence by birth cohort. While the reductions in cigarette smoking started with the 1980s birth cohorts, cigar and smokeless initiation and prevalence did not decrease until the 1990-1995 cohorts.

Conclusions

Despite their recent emergence, e-cigarette use has varied considerably across US adolescent cohorts. These trends reflect the rapidly changing market, policy, regulatory and social environment. As the tobacco product landscape continues to evolve, it will be essential to monitor patterns of use of adolescent and young adult cohorts as they age into adulthood.

Main messages

E-cigarette initiation has varied dramatically across US adolescent cohorts due to the rapidly evolving tobacco market and regulatory environment. E-cigarette use and initiation appeared to have peaked with the 2005 birth cohort.

Type of study / research

Quantitative

Geography of the study

Outside Europe

Funding of study

Federal source

Yes

State source

No

Nonprofit Grant Funding Entity Source

No

Nonprofit Grant Funding Entity Source

No

Academic Institution Source

No

Pharmaceutical Industry Source

No

Tobacco/E-Cigarette Industry Source

No

Declaration of interest

The submitter declares that during the past 5 years have a direct nor indirect link (professional*, personal or financial**) with the tobacco and e-cigarette companies

No