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Articles

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Carles Bautista-Rodriguez, PhD; Joan Sanchez-de-Toledo, PhD; Bradley C. Clark, MD; Jethro Herberg, MD; Fanny Bajolle, MD ...

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Manuel Sánchez-Luna, MD, PhD; Belén Fernández Colomer, MD, PhD; Concepción de Alba Romero, MD, PhD; Ana Alarcón Allen, MD, PhD; Ana Baña Souto, MD, PhD ...

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K. Casey Lion, MD, MPH; Jesse Gritton, MPH; Jack Scannell, MB, BChir; Julie C. Brown, MDCM, MPH; Beth E. Ebel, MD, MSc, MPH ...

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In this Issue
Articles
Commentaries
From the American Academy of Pediatrics
Pediatrics Perspectives
Family Partnerships
Feature
Advocacy Case Study
Research Briefs
Review Articles


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Volume 147, Issue 2
February 2021



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Use of E-cigarettes and Other Tobacco Products and Progression to Daily Cigarette Smoking



John P. Pierce, PhD ; Ruifeng Chen, MS; Eric C. Leas, PhD; Martha M. White, MS; Sheila Kealey, MPH; Matthew D. Stone, MS; Tarik Benmarhnia, PhD; Dennis R. Trinidad, PhD; David R. Strong, PhD; Karen Messer, PhD

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OBJECTIVES:
To identify predictors of becoming a daily cigarette smoker over the course of 4 years.

METHODS:
We identified 12- to 24-year-olds at wave 1 of the US Population Assessment of Tobacco and

RESULTS:
Sixty-two percent of 12- to 24-year-olds (95% confidence interval [CI]: 60.1% to 63.2%) tried tobacco, and 30.2% (95% CI: 28.7% to 31.6%) tried ≥5 tobacco products by wave 4. At wave 4, 12% were daily tobacco users, of whom 70% were daily cigarette smokers (95% CI: 67.4% to 73.0%); daily cigarette smoking was 20.8% in 25- to 28-year-olds (95% CI: 18.9% to 22.9%), whereas daily electronic cigarette (e-cigarette) vaping was 3.3% (95% CI: 2.4% to 4.4%). Compared with single product triers, the risk of progressing to daily cigarette smoking was 15 percentage points higher (adjusted risk difference [aRD] 15%; 95% CI: 12% to 18%) among those who tried ≥5 products. In particular, e-cigarette use increased the risk of later daily cigarette smoking by threefold (3% vs 10%; aRD 7%; 95% CI: 6% to 9%). Daily smoking was 6 percentage points lower (aRD -6%; 95% CI: -8% to -4%) for those who experimented after age 18 years.

CONCLUSIONS:
Trying e-cigarettes and multiple other tobacco products before age 18 years is strongly associated with later daily cigarette smoking. The recent large increase in e-cigarette use will likely reverse the decline in cigarette smoking among US young adults.

Subjects: Addiction, Smoking


Topics: cigarette smoking, electronic cigarettes, tobacco, tobacco use, cigarettes

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Robert McMillen et al., *Pediatrics*, 2021

Adolescent Electronic and Conventional Cigarette Use
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Incidence of Cigarette Smoking Relapse Among Individuals Who Switched to e-Cigarettes or Other Tobacco Products
John P. Pierce et al., *JAMA Network Open*, 2021

Association of Electronic Nicotine Delivery System Use With Cigarette Smoking Relapse Among Former Smokers in the United States
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POTENTIAL CONFLICT OF INTEREST: The authors have indicated they have no potential conflicts of interest to disclose.

FINANCIAL DISCLOSURE: The authors have indicated they have no financial relationships relevant to this article to disclose.

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We identified 12- to 24-year-olds at wave 1 of the US Population Assessment of Tobacco and Health Study and determined ever use, age at first use, and daily use through wave 4 for 12 tobacco products.

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