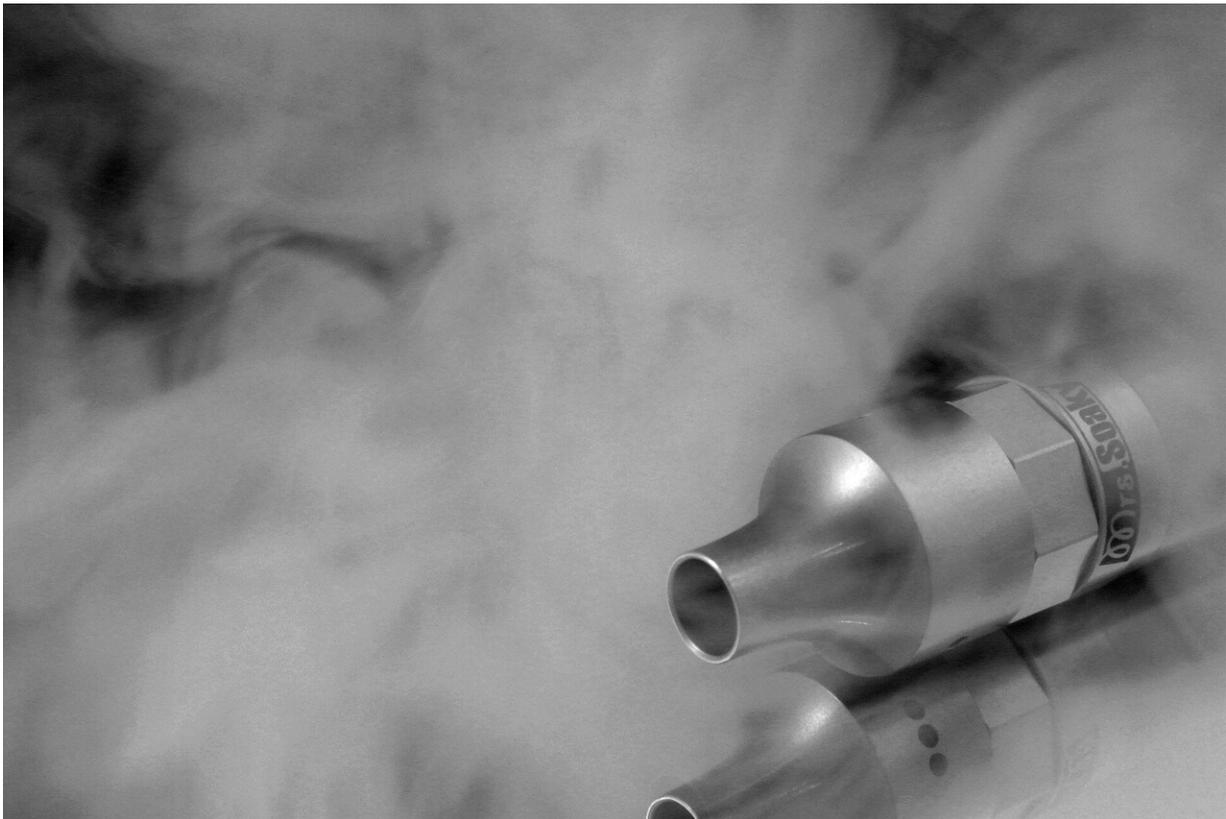


# Youth using e-cigarettes three times as likely to become daily cigarette smokers

January 11 2021, by Yadira Galindo

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An analysis of a large nationally representative longitudinal study by University of California San Diego Herbert Wertheim School of Public Health and Human Longevity Science report that starting tobacco

products, including e-cigarettes, before the age of 18 is a major risk factor for people becoming daily cigarette smokers.

Reporting in the January 11, 2021 online edition of *Pediatrics*, researchers found that in 2014 people age 12 to 24 who used e-cigarettes were three times as likely to become daily cigarette smokers in the future. Among those who reported using a tobacco product, daily use increased with age through age 28. Daily cigarette smoking nearly doubled between 18 to 21 year olds (12 percent) and 25 to 28 year olds (21 percent).

"This is the first paper that actually looks at progression to dependent cigarette smoking among young adults. In these data, e-cigarettes are a gateway for those who become daily cigarette smokers," said the study's first author, John P. Pierce, Ph.D., Professor Emeritus at Herbert Wertheim School of Public Health and Human Longevity Science and UC San Diego Moores Cancer Center. "The start product has changed from cigarettes to e-cigarettes, but the end product has stayed the same. When users become dependent on nicotine, they are converting to cigarette smoking."

Researchers used data from the Population Assessment of Tobacco and Health (PATH) Study, a longitudinal study of tobacco use and its effect on the health of people in the United States. The PATH Study, undertaken by the National Institute on Drug Abuse (NIDA) and the FDA Center for Tobacco Products under contract to Westat, enrolled a nationally representative sample of 12 to 24 year olds between in 2013 and 2014 and re-interviewed them annually for four years to explore progression to daily use among experimenters of 12 tobacco products.

In the first year, 45 percent of study participants reported using at least one tobacco product in their lifetime. By the fourth year, as participants aged, 62 percent reported some tobacco experimentation. Among those

who have ever experimented with tobacco, 73 percent had tried cigarettes and 72 percent had tried e-cigarettes. Further, more than half tried hookahs and cigarillos. Traditional cigars, filtered cigars, smokeless products, pipes and snus were each tried by more than 10 percent of study participants.

The analyses revealed that, by year four, 12 percent of participants were using tobacco products daily—half of whom became daily users after the first year. Seventy percent of daily users smoked cigarettes and most of them (63 percent) used cigarettes exclusively. Of those who smoked cigarettes and used another tobacco product, half vaped e-cigarettes on a non-daily basis.

Among the 17 percent of daily users who were vaping every day, almost half were also non-daily cigarette smokers. Further follow-up will determine whether these young daily tobacco users continue to use both products or whether they settle on a single product, said Pierce.

"What we're seeing is that the proportion who are daily e-cigarette users did not increase with age. Whereas with cigarettes the number of users jumps up rapidly with age," said Pierce. "This rapid increase with age only occurred with cigarettes, not with any other tobacco products."

Less than 1 percent of study participants who experimented with just one [tobacco](#) product progressed to daily cigarette smoking. People who had tried five or more products increased their risk of becoming daily cigarette smokers by 15 percentage points.

"Trying e-cigarettes and multiple other [tobacco products](#) before the age of 18 is also strongly associated with becoming daily cigarette smoking," said senior author Karen Messer, Ph.D., professor at UC San Diego Herbert Wertheim School of Public Health and Human Longevity Science and director of biostatistics at UC San Diego Moores Cancer

Center.

"We know that [e-cigarette use](#) among high school seniors, most under the age of 18, increased from 38 percent in 2016 to 45 percent in 2019. These results suggest that recent rapid growth in adolescent [e-cigarette](#) use will lead to increased daily cigarette smoking among young adults in the United States, reversing decades of decline in cigarette smoking."

Provided by University of California - San Diego

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