

Welcome

The Center for State, Tribal, Local, and Territorial Support presents the

CDC Vital Signs Town Hall on Surge in Youth Tobacco Product Use: Causes and Public Health Implications

February 12, 2019 2:00–3:00 PM (EST)

Agenda

Time	Agenda Item	Speaker(s)
2:00 pm	Welcome & Introduction	José T. Montero, MD, MHCDS Director, Center for State, Tribal, Local, and Territorial Support, CDC
2:05 pm	Vital Signs Overview	Andrea Gentzke, PhD, MS Health Scientist, Office on Smoking and Health, National Center for Chronic Disease Prevention and Health Promotion, CDC
2:15 pm	Presentations	Robin Koval CEO and President, Truth Initiative
		Laura Oliven, MPP Minnesota Tobacco Control Manager, Minnesota Department of Health
2:35 pm	Q&A and Discussion	Dr. José T. Montero
2:55 pm	Wrap-up	
3:00 pm	End of Call	





to support STLT efforts and build momentum around the monthly release of CDC Vital Signs























Vital Signs: Tobacco Product Use Among Middle and High School Students - United States, 2011-2018

Town Hall Briefing February 12, 2019

ANDREA GENTZKE, PHD OFFICE ON SMOKING AND HEALTH CENTERS FOR DISEASE CONTROL AND PREVENTION

Introduction

Tobacco product use is the leading cause of preventable disease and death in the United States

Nearly all tobacco product use begins during youth and young adulthood

Recent changes to the tobacco product landscape have shifted the types of products used by youths

The Surgeon General has concluded that exposure to nicotine during adolescence can cause addiction and harm the developing adolescent brain

Methods

National Youth Tobacco Survey (NYTS)

- Nationally representative, annual survey of U.S. students in grades 6-12
- 2018 NYTS:
 - March May, 2018, 20,189 participants (response rate: 68%)
- Seven tobacco products assessed:
 - ° Cigarettes, E-cigarettes, Cigars, Smokeless Tobacco, Hookah, Pipe Tobacco, Bidis

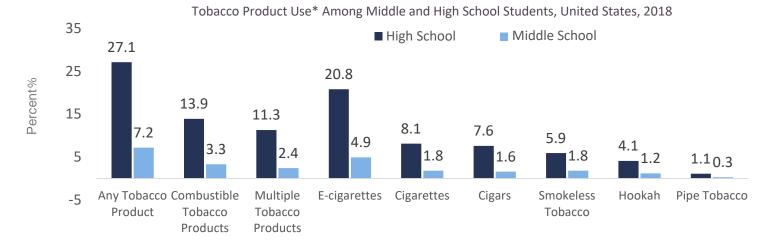
Current Use	Each product, reported use on ≥1 of the past 30 days
Frequent Tobacco Product Use	Reported use on ≥20 of the past 30 days (among product users)
Any Tobacco Product Use	Current use of ≥ 1 of the seven tobacco products assessed
Combustible Tobacco Product Use	Current use of Cigarettes, Cigars, Hookah, Pipe Tobacco, Bidis
Multiple Tobacco Product Use	Current use of \geq 2 of the seven tobacco products assessed

Measures Assessed:

Prevalence of Tobacco Product Use United States, 2018

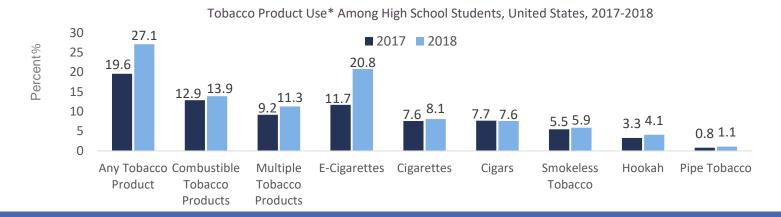
More than 1 in 4 high school students (27.1%, 4.04 million) and about 1 in 14 middle school students (7.2%, 840,000) currently used any tobacco product

E-cigarettes were the most commonly used tobacco product among high school (20.8%, 3.05 million) and middle school (4.9%, 570,000) students



U.S. High School Students: Change in Tobacco Product Use, 2017-2018

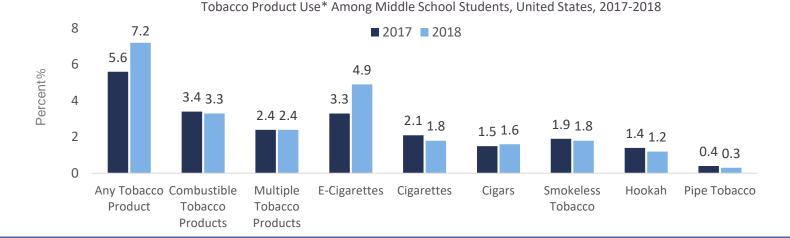
High School - statistically significant changes during 2017-2018:
Any tobacco product use increased by 38.3% (19.6% to 27.1%)
Multiple tobacco product use increased by 22.8% (9.2% to 11.3%)
E-cigarette use increased by 77.8% (11.7% to 20.8%)



*In 2018, bidis was not reported separately by school level, but are included in summary measures to maintain consistency across years.

U.S. Middle School Students: Change in Tobacco Product Use, 2017-2018

Middle school - statistically significant changes during 2017-2018: Any tobacco product use increased by 28.6% (5.6% to 7.2%) E-cigarette use increased by 48.5% (3.3% to 4.9%)



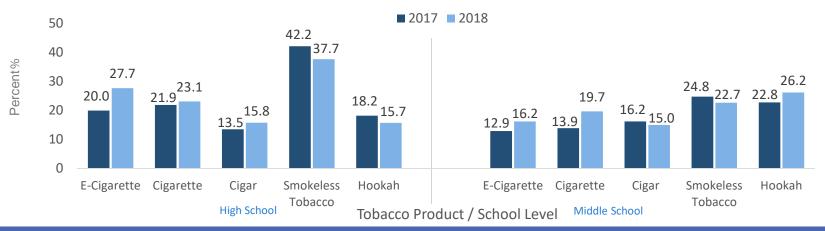
*In 2018, bidis was not reported separately by school level, but are included in summary measures to maintain consistency across years.

Frequent Tobacco Product Use United States, 2017-2018

During 2017-2018, frequent e-cigarette use increased by 38.5% (from 20.0% to 27.7%) among high school student e-cigarette users

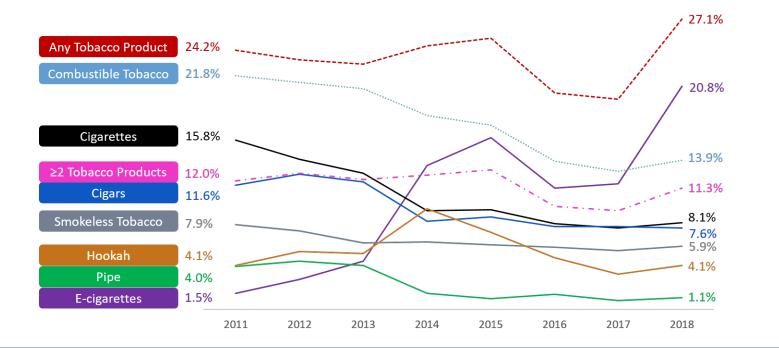
No other statistically significant changes in frequent use were observed

Frequent use of select tobacco products among U.S. middle and high school students, 2017-2018

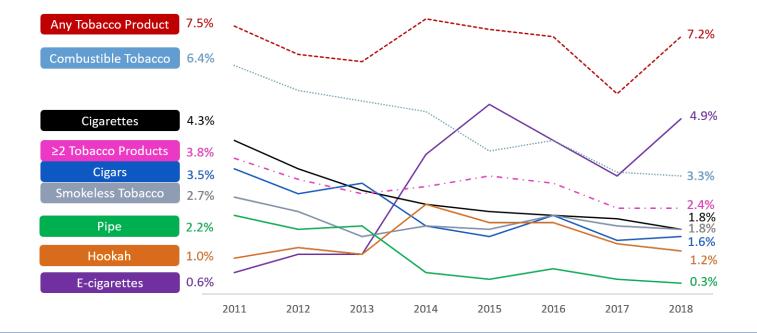


Frequent Use defined as use on \geq 20 of past 30 days, among current users of each product.

U.S. High School Students: Trends in Tobacco Product Use, 2011-2018



U.S. Middle School Students: Trends in Tobacco Product Use, 2011-2018



Discussion

The types of tobacco products used by youth has changed over time

- Declines in cigarette smoking stalled in recent years
- E-cigarettes have been the most commonly used tobacco product since 2014

During 2017-2018, current e-cigarette use increased by 77.8% among high school students and 48.5% among middle school students

- No significant changes in current use of combustible tobacco products
- About 1.5 million more youth used e-cigarettes in 2018 than 2017
- Frequent e-cigarette use increased by 38.5% among high school student users

The increase in e-cigarette use among youth is consistent with observed increases in sales of the e-cigarette JUUL, a USB-shaped e-cigarette device

• JUUL has a high nicotine content, can be used discreetly and is available in flavors

This increase in e-cigarette use during 2017–2018 erased the progress in reducing e-cigarette use, as well as any tobacco product use, that had occurred in prior years

Key Takeaways

1

Current e-cigarette use increased considerably during 2017-2018. E-cigarettes were the driver of the observed increase in any tobacco product use among youth.



In 2018, about 1 in 4 high school students and 1 in 14 middle school students (a total of 4.9 million U.S. youth) reported current use of any tobacco product.



In addition to more youths using e-cigarettes overall, current e-cigarette users in high school are using them more frequently in 2018 than 2017.



The sustained implementation of proven population-based strategies, in coordination with tobacco product regulation by FDA, can reduce all forms of tobacco product use and initiation among U.S. youth.

Andrea Gentzke, PhD, MS Office on Smoking and Health, CDC agentzke@cdc.gov

Citation:

Gentzke AS, Creamer M, Cullen KA, Ambrose BK, Willis G, Jamal A, King B. *Vital Signs*: Tobacco Product Use Among Middle and High School Students – United States, 2011-2018. *MMWR* 2019.

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INSPIRING TOBACCO-FREE LIVES

Tackling the Youth E-Cigarette Epidemic

Robin Koval President and CEO February 12, 2019

About Truth Initiative

America's largest nonprofit public health organization dedicated to achieving a culture where all youth and young adults reject tobacco

- truth[®] campaign
- Truth Initiative Schroeder Institute[®] Research and policy studies
- Community activism and engagement
- Innovation in tobacco dependence treatment



The rise of vaping

E-cigarettes are **turning back the clock** on progress in the fight against tobacco and **addicting a new generation to nicotine:**

- When Truth Initiative began 28% of high school teens smoked – now it's down to 8.1%.
- Today, 20% of high school students vape.

"Youth who vape are 4X more likely to begin smoking deadly cigarettes."

truth initiative



Research

- There is a huge knowledge gap among youth, adults, parents and educators when it comes to e-cigarettes.
- The Truth Initiative Schroeder Institute has conducted groundbreaking research on multiple youth e-cigarette topics, including four peer-reviewed published studies.
- Studies, fact sheets and relevant articles can be found at truthinitative.org.



BEHIND THE EXPLOSIVE GROWTH OF JUUL

SOCIAL INFLUENCES AND FLAVORS DRIVE RISING TEEN USE OF THE TOP E-CIGARETTE

truth initiative

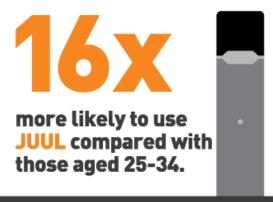
Research findings

- 63% of JUUL users did not know that this product always contains nicotine.
- 15- to 17-year-olds have over 16 times greater odds of being current JUUL users compared with those between 25 and 34 years old.
- 56% of 15- to 17-year-old JUUL users used the device three or more times a month.
 - 25% used JUUL 10 or more times a month.

Youth e-cigarette use is **NOT** mere youthful curiosity and experimentation

Odds of using JUUL

15- to 17-year-olds are



truth[®] campaign

- Safer ≠ Safe shares key facts about ecigarettes:
 - Youth who vape are 4 times more likely to begin smoking cigarettes.
 - One JUUL pod is equivalent to the nicotine of a pack of cigarettes.
- Generated 54 million video views and 1.7 million social engagements in the first week
- To date, the campaign generated 166 million views and 3.7 million social engagements.
- 1.3 million visits to thetruth.com and more than 200 thousand web interactions with our factbased activities including our Safer ≠ Safe quiz.



truth[®] Altria + JUUL news



Follow

Breaking: the company that once said they're "not Big Tobacco" is joining forces with... Big Tobacco. The makers of Marlboro just purchased a minority stake in JUUL for \$12 Billion. We saw this one coming. bit.ly/2T15HOg





Follow

 \sim

Never thought we'd see these two getting cozy for the holidays. But uhhhh, I guess money really can buy you love - or at least a "significant" stake in JUUL. nyti.ms/2A5Xvoz



Quitting e-cigarettes

- First-of-its kind, text messaging youth e-cigarette quitting program
 - Anonymous
 - Messages tailored by age group to give appropriate recommendations for teens, young adults and parents

Text QUIT to (202) 804-9884

• Users can also opt-in online at BecomeAnEX.org or through the This is Quitting app.





School curriculum

- A Truth Initiative study of 1,500+ teachers and administrators of middle/ high schools showed that many lacked knowledge about the harms and addictive properties of e-cigarettes, including JUUL.
- Less than half (47 percent) of those surveyed recognized a photo of a JUUL.
- 66% of those teachers and administrators said they had communicated with parents regarding JUUL and vaping.
- A survey of parents found that only 26% of parents recalled receiving e-cigarette communication from their schools.



The solution

Regulation, prevention, education and innovation are key in arresting and reversing youth vaping.



thank you

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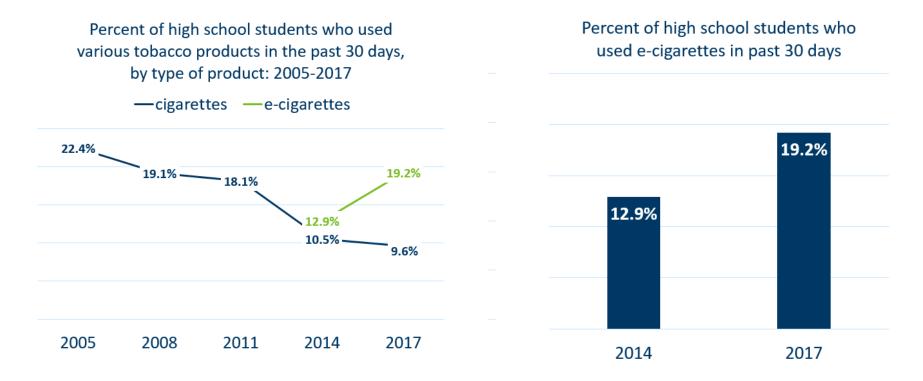


DEPARTMENT OF HEALTH

A Comprehensive State Response to the Youth E-cigarette Use Epidemic

Laura Oliven | Tobacco Control Manager

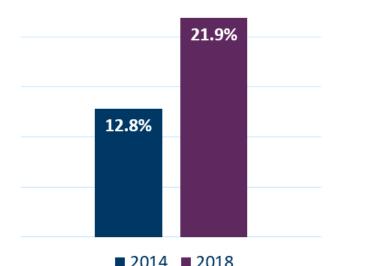
A Youth Epidemic



Minnesota Youth Tobacco Survey

A Sharp Increase in Young Adult E-cigarette Use

Percent of 18-24 year olds who use e-cigarettes



Three in four young adult e-cigarette users are never smokers.

Nicotine Addiction Advisory

DEPARTMENT OF HEALTH

Health Advisory

NICOTINE AND THE ESCALATING RISK OF ADDICTION FOR YOUTH

October 8, 2018

Youth e-cigarette use has risen dramatically in Minnesota in the last three years, with an almost 50 percent increase in high school studente e-cigarette use insce 2014.¹¹ This is a single public health concern. Youth use of nicotine increases their niko il addiction, and can make them more susceptible addiction to tobacco products and other substances in the future. The Minnesota Department of the third policy makers and policy makers.

Nicotine primes the adolescent brain for addiction.

Addiction is a form of learning, where the brain hearns to connect a stimulus (for example, sunding a cignrette or e-cignrette) with a response (feelings of pleasare and cating of creaving).¹⁷ Each time a new skill or memory is learned, stronger connections - or synapses - are built between brain cells. Young people built synapses faster than addite. Nicotine changes the way these synapses are formed. Youth esposed to nicotine are at higher risk for addiction than are adults because youth brains are still forming and making permanent connections. ^{11,14} Studies show that symptoms of nicotine addiction can appear among youth within only a few days or weeks after smoking initiation.¹⁴ The use of nicotine in e-cigaretts—nerty all of which contain nicotine^{13,14} and of ther tobacco products primes the adolescent brain for addiction. This could have significant public health consequences, including potentially increasing the risk for your of future addiction.²

Youth who are exposed to nicotine are more likely to use other substances.

New e-cigarette technologies pose greater risks for youth.

Popular e-cigarettes like JUUI, have developed new technologies utilizing nicotine salts that are absorbed into the body more effectively and come in record-high levels of nicotine. According to the

Highlights damaging health consequences to young brains

Warns that early nicotine exposure increases susceptibility to long-term addiction

Includes opportunities for action by parents, health care providers, school staff, and policy makers

Partnership on Outreach to Schools



Find the letter and toolkit at health.mn.gov/e-cigarettes

Back to School Media Push



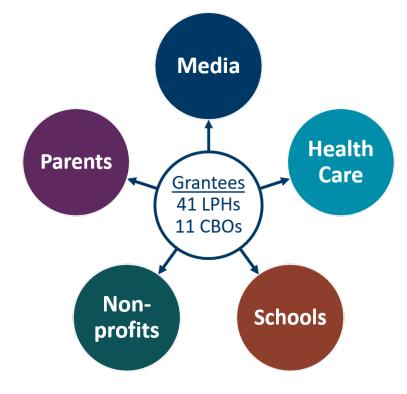
4 PSA's messaged to parents

- Dangers of nicotine: talk to your kids
- Products like JUUL: be aware of devices kids use
- Industry targeting: be aware of how your kids are targeted
- Dangers of nicotine: set an example by not using

Available at youtube.com/user/MNDeptofHealth



Outreach through Grantees and Partners



Grantee and Partner Toolkit

- Talking points
- Data highlights
- Q&A
- Sample communications
- Key resources

2018 Back to School Partner Toolkit

On Segments 12, 2018, the Minnessian Department of Noeth Sciences all new inclusions for minima and the resisting risk of advices transmission of the provide sector modes devices included in Minnessian in the test take genera, with an almost 40 process insteader to choose device the advice and the science 2014. This is a couple path sciencific sector resolution of the science and the science path of the science and the science of the science and the science and the science path of the science and the advices and the science and the science and the science and the science and the partregation of path science is a science and the science and the science and the partregation of path science and the science and the science activity of the partregation of path science and the science and the science activity of the partregation of path science and the science activity of the partregation of path science activity and the science activity of the partregation of path science activity and the science activity of the partregation of path science activity and the science activity of the partregation of path science activity and the path science activity and the science activity of the path science activity and the science activity and the path science activity and the science activity and the path sc

Talking Points

Nicotine primes the adolescent brain for addiction.

 Decause their brains are still developing, addressents can become addicted to nicosine more early then address¹²²⁴

Youth exposed to nicotine are more likely to use other substances.

Receptors in the brain are structured by exposure to ricular, which triggers are saveling effect to: the train. These weapprocession at a net relation to the effects of relation and other drags. The result addressers are are proposed for receipting, the generic the structure or repriment because the effects of indicate and relative trags are used in theory of the generic the structure. This effect the results of the definition of that specific discretions at discretions and structure compositions. This effect the results the Helichen distribution discretion adjustment on the structure discretion adjustment to the structure adjustment and the structure adjustment are not set of structure adjustment.

New e-cigarette technologies pose greater risks for youth.

Rearly all e cigarettes contain iscotine, which can harm brain development as teens grow.
 Popular e cigarettes like JUUL have developed new technologies utilizing nicotine saits that are

 Popular enganetics includes in endowing a rew team includes during includes and are absorbed into the body more effectively and came in record high levels of includes.
 Exignetities are after flavored live fruit and object flavore, have imited object and are easily hidden.

Youth e-cigarette use is at its highest point ever recorded.

 1 in 5 (1996) of high school students use e-cips return, nearly a 50 percent increase since 2014. Over 125 of birth a bool students have some triad e-time atter on 115 from 2014.

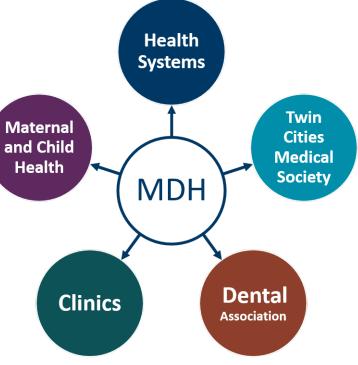
Over 17% of high school stations have even tried e-diparettes, up 13% from 2024.
 This increase is no surprise given the Tabacco Industry's promation of these products.

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Outreach through Health Care





Communities are taking action.



Amending clean indoor air laws to restrict e-cigarette use indoors. Limiting the sale of flavored tobacco products, including ecigarettes, to adultonly shops.

Raising the minimum age to buy tobacco to 21. Increasing funding for comprehensive tobacco prevention and control.

MDH Resources

Visit www.health.mn.gov/ecigarettes

- Health Advisory: Nicotine and the Escalating Risk of Addiction for Youth
- School Toolkit: Addressing Student Use of E-cigarettes and other Vaping Products
- Factsheet: E-cigarettes and Other Vaping Products
- And more...





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CDC Vital Signs Electronic Media Resources

- Become a fan on Facebook
 www.facebook.com/cdc
- Follow us on Twitter
 <u>www.twitter.com/CDCgov</u>
- Syndicate Vital Signs on your website

https://tools.cdc.gov/medialibrary/index.aspx#/media/id/305883

 Vital Signs interactive buttons and banners <u>https://www.cdc.gov/socialmedia/tools/buttons/vitalsigns</u>

Thank You

Provide feedback on this teleconference: <u>CSTLTSFeedback@cdc.gov</u>



Please mark your calendars for the next Vital Signs Town Hall Teleconference March 12, 2019 2:00–3:00 PM (EST)

For more information, please contact Centers for Disease Control and Prevention

1600 Clifton Rd, NE, Atlanta, GA 30333 Telephone: 1-800-CDC-INFO (232-4636)/TTY: 1-888-232-6348 Email: cdcinfo@cdc.gov Web: <u>www.cdc.gov</u>

The findings and conclusions in this presentation are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.