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Surgeon general sounds the alarm on teens and e-cigarettes – CNN

(CNN)The nation's top doctor is sounding the alarm on e-cigarettes, especially when used by teens and young adults.

"These products are now the most commonly used form of tobacco among youth in the United States, surpassing conventional tobacco products, including cigarettes, cigars, chewing tobacco and hookahs," wrote Dr. Vivek H. Murthy, the US surgeon general, in a report released Thursday. In fact, use of e-cigarettes among high school students increased by 900% from 2011 to 2015, according to the report.

Specifically, among middle and high school students, use of e-cigarettes has more than tripled since 2011, the report indicates. Meanwhile, after a period of relative stability from 2011 to 2013, vaping among young adults between 18 and 24 years old more than doubled from 2013 to 2014.

Yet nicotine can damage the developing teen brain while leading to addiction.

"Compared with older adults, the brain of youth and young adults is more vulnerable to the negative consequences of nicotine exposure," noted Murthy.

Why vape?

Among their reasons for using e-cigarettes, teens and young adults commonly say they are curious. They also like the flavorings. In fact, among teens and young adults up to age 25, flavored e-cigarette use exceeds rates among older adult adults.

"I loved trying flavors," said Tyra Nicolay, 16, a tobacco control advocate who spoke at the news conference. A former e-cigarette user, Nicolay added that "there are over 7,000 e-cigarette flavors" and said she did not know they could be addictive.

Teens and young adults also reported using electronic tobacco products because they are less harmful or less toxic than conventional cigarettes and it helps them avoid indoor smoking restrictions. But ecigarettes are strongly associated with smoking in these age groups.

E-cigarettes: Where do we stand?

In 2015, for instance, nearly 60% of high school students were both current smokers and current vapers. The report notes that e-cigarettes are also used to smoke marijuana and possibly other illicit drugs.

"After having made tremendous progress in decreasing smoking rates, we may be now creating a new generation of nicotine addicts who will go on to be lifelong nicotine addicts, have difficulty stopping and perhaps start smoking regular cigs as well," said Dr. Benard Dreyer, who, as president of the American Academy of Pediatrics, speaks for 66,000 primary care pediatricians and other pediatric specialists.

Not harmless

Though the numbers in the report are new, the science is not, Dreyer said, underscoring the report's findings about brain development.

"I think most people think your brain stops developing when you're 5 or something, and certainly there's a huge amount of development in the first couple of years in life, but we know that adolescent brains are

actually very significant in development, and nicotine is a neurotoxin, and we know that it can cause lifelong problems for kids, including mental health problems, behavioral problems and actual changes in brain structure." he said.



FDA cracks down on stores selling e-cigarettes to minors Echoing findings in the report, Dreyer noted that the other ingredients in the vaping liquids may be causing harm as they get heated and aerosolized and enter the lungs. Secondhand aerosol exhaled into the air by e-cigarette users can expose others to potentially harmful chemicals, the report found. Researchers suspect that these chemicals are dangerous, even if they have not proved it or figured out at what dose.

Erika Sward, assistant vice president of national advocacy at the American Lung Association, also expressed concern.

"Some of those chemicals are carcinogenic," she said, explaining that ingredients in vaping liquids have been linked to cancer when used in other ways. "We don't know, walking down the line, what disease outcomes may occur. The other thing we've known for a while is that ingestion of nicotine, either through topical or by drinking, nicotine can cause acute poisoning and death."

Ray Story, president of the Tobacco Vapor Electronic Cigarette Association, an international industry group, believes e-cigarettes are "far less harmful than conventional tobacco."



E-cigarettes and hookah use among kids soars

The surgeon general's report notes that older adults are more likely to report using e-cigarettes to wean themselves off conventional cigarettes.

According to the website of the <u>National Institute of Drug</u> <u>Abuse</u>, it is unclear whether e-cigarettes are "effective as smoking-cessation aids. There is also the possibility that

they could perpetuate the nicotine addiction and thus interfere with quitting."

Yet, over half of e-cigarette users still smoke regular cigarettes, said Sward. "What we know is that the damage to your body remains even if you're a so-called light smoker. The bottom line is -- this is well-known -- if you're still smoking cigarettes, you're putting your body at grave risk. And dual use is part of that, too."

And the new report finds teen use of e-cigarettes is associated with use of other tobacco products as well.

Regulations and policy



In the report, the surgeon general called for federal, state and local action immediately, such as including ecigarettes in smoking bans as well as significant increases in taxes and the price of e-cigarette products.

Are e-cigarettes fueling a new addiction?

Mirroring regulation of the products announced by the Food and Drug Administration this year, the report calls for

regulation of "marketing that is likely to attract youth and young adults, to the extent feasible under the law."

"E-cigarette companies appear to be using many of the advertising tactics the tobacco industry used to persuade a new generation of young people to use their products," wrote Dr. Tom Frieden, director of the US Centers for Disease Control and Prevention, in the foreword to the report. "Companies are promoting their products through television and radio advertisements that use celebrities, sexual content and claims of independence to glamorize these addictive products and make them appealing to young people."

There's an urgent need, Sward said, for the FDA "to protect the kids and young adults and indeed the public from e-cigarettes, especially when it comes to flavors."

As noted in the report, a majority of younger vapers used a flavored product the first time they tried an ecigarette. Dreyer hopes for new regulations around flavorings and packaging that might be especially appealing to children, though he is generally pleased with the FDA's progress.

Story believes that "all flavors should be legal" and that they are essential to the product. Story acknowledged that "there are certainly companies out there that, when they come out with gummy bear liquids or cotton candy liquids, they have a completely different target audience in mind than what the responsible players are actually looking for."

In August, the FDA officially restricted sales of e-cigarettes to minors under age 18. Sward said it is pushing for 21 to be the age when purchasing all tobacco products is allowed.



Additionally, Murthy suggested more educational initiatives to target teens and young adults. Finally, the report recommended implementation of FDA regulatory authority over the manufacturing, marketing and distribution of ecigarettes, beyond what has been done already.

Noting that 480,000 people die each year due to tobaccorelated disease, Murthy recalled his predecessor Dr. Luther Terry, who released the <u>first report on tobacco in 1964</u>. Since then, smoking rates decreased from 42% of the adult

population to 15%. He noted that "things did not get better" due to a single surgeon general's report.

"Things got better because we as a country were presented with clear information and we chose to act on it," said Murthy.

Story does not oppose regulation across the board. "An industry without regulation is really not an industry," he said, adding that his industry has been pushing for "age verification, GMP standards, and obviously all the products being tested and complying with the regulatory limits that have been set. We don't support unregulated products in the marketplace."

Dreyer praised the report, noting, "when the surgeon general comes out with a report, it gives a lot of heft to these concerns." He added that the report "supports what we already have as our policy and our messaging and it will make our ability to encourage pediatricians and other doctors and teachers to actively begin speaking to children and teens about this."

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1.	How much has e-cigarette use increased amor	ng high school students in 2011?	
2.	What two things have contributed to rise of e-c adults?	igarettes and vaping use in teens and young	
3.	In 2015, what percent of high school students	said they were current smokers and vapers?	
4.	Since Nicotine is a neurotoxin, what problems	has research linked it to for kids?	
5.	Does secondhand aerosol from vaping exist?	If so, is it dangerous?	
6.	Is there any evidence that e-cigarettes are a de	efinite smoking cessation device?	
7.	What regulations does the Food and Drug Adm vapes?		
0			
ŏ.	Do you personally think changing the age limit Why or why not?		
9.	Why do YOU think vapes have become so pop	oular among high school students and why?	