

E-cigarettes and Youth: What Parents Need to Know



WHAT ARE E-CIGARETTES?

Electronic cigarettes (e-cigarettes) are battery-powered devices that deliver nicotine, flavorings, and other ingredients to the user. Using e-cigarettes is sometimes called “vaping.” E-cigarettes do not create harmless “water vapor” – they create an aerosol that can contain harmful chemicals.

HOW MANY YOUTH ARE USING E-CIGARETTES?

- E-cigarettes have been the most commonly used tobacco product among U.S. youth since 2014.
- In 2018, CDC and FDA data showed that more than 3.6 million U.S. youth, including 1 in 5 high school students and 1 in 20 middle school students, were past-month e-cigarette users.
- During 2017 and 2018, e-cigarette use skyrocketed among youth, leading the U.S. Surgeon General to call the use of these products among youth an epidemic in the United States.

WHAT ARE THE RISKS FOR YOUTH?

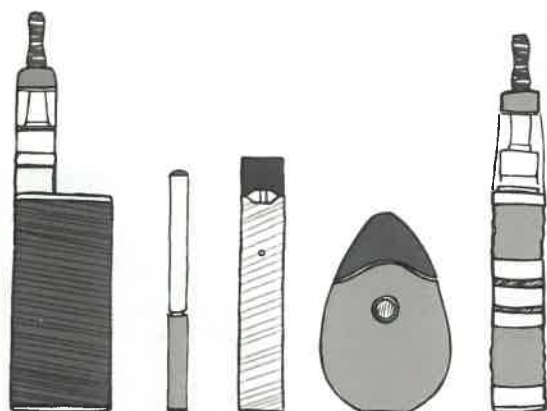
- Most e-cigarettes contain nicotine, which is highly addictive. Nicotine exposure during adolescence can:
 - » Harm brain development, which continues until about age 25.
 - » Impact learning, memory, and attention.
 - » Increase risk for future addiction to other drugs.
- Young people who use e-cigarettes may be more likely to go on to use regular cigarettes.
- Many e-cigarettes come in kid-friendly flavors – including mango, fruit, and crème – which make e-cigarettes more appealing to young people.
- E-cigarette aerosol is not harmless. It can contain harmful substances, including:
 - » Nicotine
 - » Cancer-causing chemicals
 - » Volatile organic compounds
 - » Ultrafine particles
 - » Flavorings that have been linked to lung disease
 - » Heavy metals such as nickel, tin, and lead





WHAT DO E-CIGARETTES LOOK LIKE?

- E-cigarettes come in many shapes and sizes. Some look like regular cigarettes, cigars, or pipes. Larger e-cigarettes such as tank systems – or “mods” – do not look like other tobacco products.
- Some e-cigarettes look like other items commonly used by youth, such as pens and other everyday items. New e-cigarettes shaped like USB flash drives are popular among youth, including JUUL and the PAX Era, which looks like JUUL and delivers marijuana.



WHAT CAN YOU DO AS A PARENT OR CAREGIVER?

As a parent or caregiver, you have an important role in protecting children from e-cigarettes.

- » Talk to your child or teen about why e-cigarettes are harmful for them. It's never too late.
- » Set a good example by being tobacco-free.
- » Learn about the different shapes and types of e-cigarettes and the risks of e-cigarette use for young people at www.CDC.gov/e-cigarettes.

ABOUT USB FLASH DRIVE-SHAPED E-CIGARETTES

As a parent or caregiver, you may have heard about the use of USB flash drive-shaped e-cigarettes, including JUUL (pronounced “jewel”). JUUL is the top-selling e-cigarette brand in the United States.

JUUL is being used by students in schools, including in classrooms and bathrooms. JUUL's nicotine liquid refills are called “pods.” According to the manufacturer, a single JUUL pod can contain as much nicotine as a pack of 20 regular cigarettes.

JUUL delivers nicotine in a new form called “nicotine salts,” which can make it less harsh on the throat and easier to use by youth. JUUL also comes in flavors that can appeal to youth.



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E-CIGARETTES SHAPED LIKE USB FLASH DRIVES: INFORMATION FOR PARENTS, EDUCATORS, AND HEALTH CARE PROVIDERS



Electronic cigarettes (e-cigarettes) are battery-powered devices that can deliver nicotine and flavorings to the user in the form of an aerosol. E-cigarettes come in many shapes and sizes.



WHAT'S THE BOTTOM LINE?



A new e-cigarette shaped like a **USB** flash drive is being used by students in schools.



The use of any tobacco product — including e-cigarettes—is **unsafe** for young people.



Nicotine is highly addictive and can **harm brain development**, which continues until about age 25.



Parents, educators, & health care providers can help prevent and reduce the use of all tobacco products, including e-cigarettes, by young people.

>> **Learn HOW** in this fact sheet.

CS292347-A



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AN INCREASINGLY POPULAR E-CIGARETTE DEVICE, CALLED JUUL, IS SHAPED LIKE A USB FLASH DRIVE.



Use of JUUL is sometimes called "JUULing."

JUUL's nicotine liquid refills are called "pods." JUUL is available in several flavors such as Cool Cucumber, Fruit Medley, Mango, and Mint.



All JUUL e-cigarettes have a high level of nicotine. According to the manufacturer, a single JUUL pod contains as much nicotine as a pack of 20 regular cigarettes.



JUUL became available for sale in the United States in 2015. As of December 2017, JUUL is the top-selling e-cigarette brand in the United States.

News outlets and social media sites report widespread use of JUUL by students in schools, including in classrooms and bathrooms.

Other devices are becoming available that look like USB flash drives. Examples include the MarkTen Elite, a nicotine delivery device, and the PAX Era, a marijuana delivery device that looks like JUUL.



JUUL



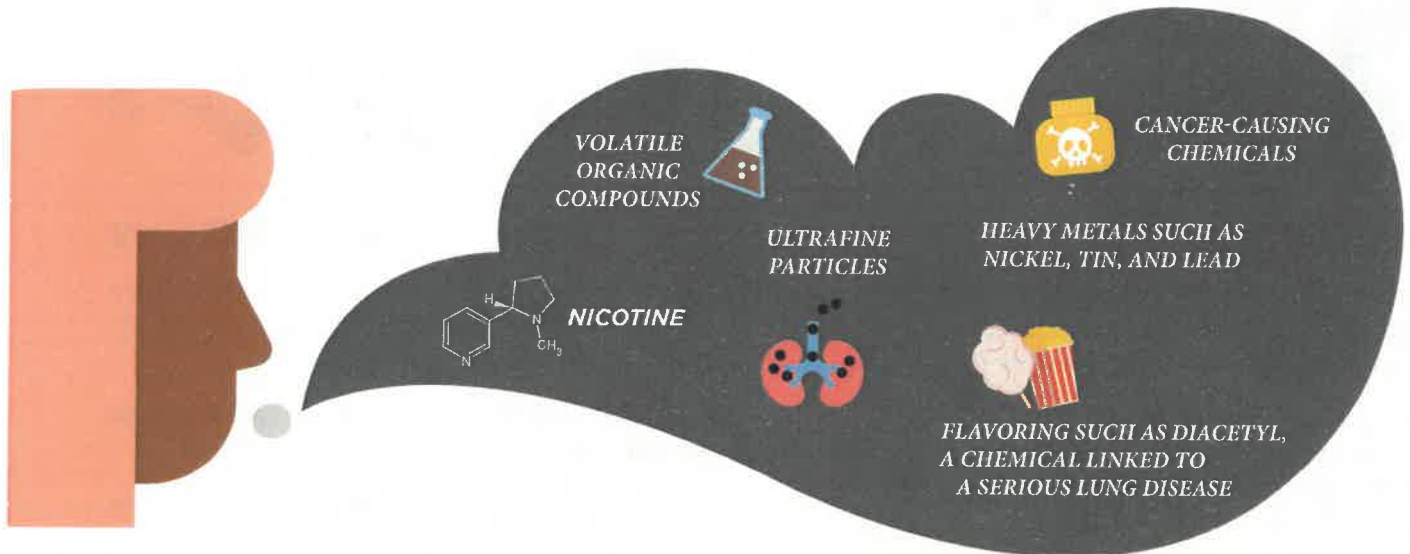
MarkTen Elite



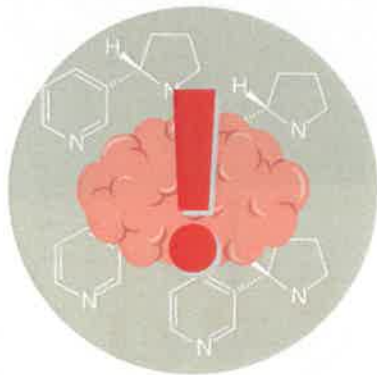
PAX Era

E-CIGARETTE USE IS NOT SAFE FOR YOUNG PEOPLE.

E-cigarette aerosol is not harmless. It can contain harmful ingredients. However, e-cigarette aerosol generally contains fewer harmful chemicals than smoke from burned tobacco products, like regular cigarettes.



Most e-cigarettes contain ***nicotine***, which is highly addictive and can ***harm brain development***, which continues until about ***age 25***.



YOUNG PEOPLE WHO USE E-CIGARETTES MAY BE MORE LIKELY TO GO ON TO USE REGULAR CIGARETTES.



PARENTS, EDUCATORS, AND HEALTH CARE PROVIDERS CAN HELP PREVENT AND REDUCE THE USE OF E-CIGARETTES BY YOUNG PEOPLE.



PARENTS CAN:

- » Learn about the different shapes and types of e-cigarettes and the risks of all forms of e-cigarette use for young people.
- » Talk to their children about the risks of e-cigarette use among young people. Express firm expectations that their children remain tobacco-free.
- » Set a positive example by being tobacco-free.



EDUCATORS CAN:

- » Learn about the different shapes and types of e-cigarettes and the risks of all forms of e-cigarette use for young people.
- » Develop, implement, and enforce tobacco-free school policies.
- » Reject youth tobacco prevention programs sponsored by the tobacco industry. These programs have been found to be ineffective for preventing youth tobacco use.



PEDIATRIC HEALTH CARE PROVIDERS CAN:

- » Ask about e-cigarettes, including devices shaped like USB flash drives, when screening patients for the use of any tobacco products.
- » Warn patients about the risks of all forms of tobacco product use, including e-cigarettes, for young people.

PARENTS,
EDUCATORS, AND
HEALTH CARE
PROVIDERS
CAN HELP

