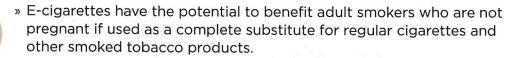
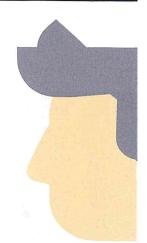
## **ELECTRONIC CIGARETTES WHAT'S THE BOTTOM LINE?**

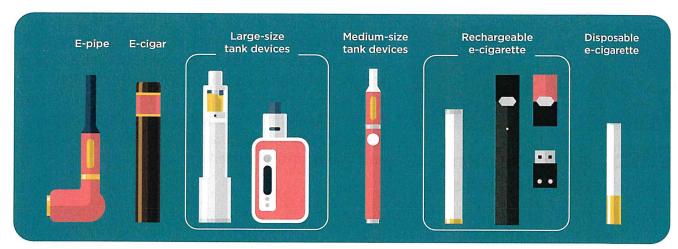


- » E-cigarettes are not safe for youth, young adults, pregnant women, or adults who do not currently use tobacco products.
- » While e-cigarettes have the potential to benefit some people and harm others, scientists still have a lot to learn about whether e-cigarettes are effective for quitting smoking.
- » If you've never smoked or used other tobacco products or e-cigarettes, don't start.



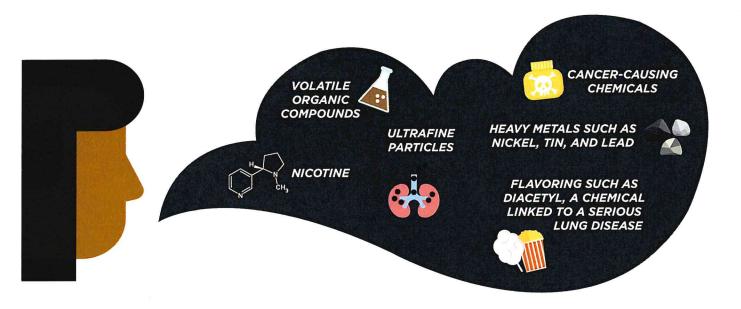
#### WHAT ARE E-CIGARETTES?

- » E-cigarettes are known by many different names. They are sometimes called "e-cigs," "e-hookahs," "mods," "vape pens," "vapes," "tank systems," and "electronic nicotine delivery systems."
- » Some e-cigarettes are made to look like regular cigarettes, cigars, or pipes. Some resemble pens, USB sticks, and other everyday items.
- » E-cigarettes produce an aerosol by heating a liquid that usually contains nicotine—the addictive drug in regular cigarettes, cigars, and other tobacco products—flavorings, and other chemicals that help to make the aerosol. Users inhale this aerosol into their lungs. Bystanders can also breathe in this aerosol when the user exhales into the air.
- » E-cigarettes can be used to deliver marijuana and other drugs.



#### WHAT IS IN E-CIGARETTE AEROSOL?

# THE E-CIGARETTE AEROSOL THAT USERS BREATHE FROM THE DEVICE AND EXHALE CAN CONTAIN HARMFUL AND POTENTIALLY HARMFUL SUBSTANCES:



It is difficult for consumers to know what e-cigarette products contain. For example, some e-cigarettes marketed as containing zero percent nicotine have been found to contain nicotine.

#### ARE E-CIGARETTES LESS HARMFUL THAN REGULAR CIGARETTES?



VS



**YES,** but that doesn't mean e-cigarettes are safe.

E-cigarette aerosol generally contains fewer toxic chemicals than the deadly mix of 7,000 chemicals in smoke from regular cigarettes. However, e-cigarette aerosol is not harmless. It can contain harmful and potentially harmful substances, including nicotine, heavy metals like lead, volatile organic compounds, and cancer-causing agents.

### WHAT ARE THE HEALTH EFFECTS OF USING E-CIGARETTES?

SCIENTISTS ARE STILL LEARNING ABOUT THE LONG-TERM HEALTH EFFECTS OF E-CIGARETTES. HERE IS WHAT WE KNOW NOW.

# Most e-cigarettes contain nicotine, which has known health effects

- » Nicotine is highly addictive.
- » Nicotine is toxic to developing fetuses.
- » Nicotine can harm adolescent brain development, which continues into the early to mid-20s.
- » Nicotine is a health danger for pregnant women and their developing babies.



# Besides nicotine, e-cigarette aerosol can contain substances that harm the body.

» This includes cancer-causing chemicals and tiny particles that reach deep into lungs. However, e-cigarette aerosol generally contains fewer harmful chemicals than smoke from burned tobacco products.



### E-cigarettes can cause unintended injuries.

- » Defective e-cigarette batteries have caused fires and explosions, some of which have resulted in serious injuries.
- » In addition, acute nicotine exposure can be toxic. Children and adults have been poisoned by swallowing, breathing, or absorbing e-cigarette liquid.



#### CAN E-CIGARETTES HELP ADULTS QUIT SMOKING CIGARETTES?



# E-CIGARETTES ARE NOT CURRENTLY APPROVED BY THE FDA AS A QUIT SMOKING AID.

The U.S. Preventive Services Task Force, a group of health experts that makes recommendations about preventive health care, concluded that the evidence is insufficient to recommend e-cigarettes for smoking cessation in adults, including pregnant women.



**HOWEVER**, e-cigarettes may help non-pregnant adult smokers if used as a complete substitute for all cigarettes and other smoked tobacco products.

### TO DATE. THE FEW STUDIES ON THE ISSUE ARE MIXED.

Evidence from two randomized controlled trials found that e-cigarettes with nicotine can help smokers stop smoking in the long term compared with placebo (non-nicotine) e-cigarettes.

A recent CDC study found that many adults are using e-cigarettes in an attempt to quit smoking. However, most adult e-cigarette users do not stop smoking cigarettes and are instead continuing to use both products ("dual use"). Because smoking even a few cigarettes a day can be dangerous, quitting smoking completely is very important to protect your health.



## **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.



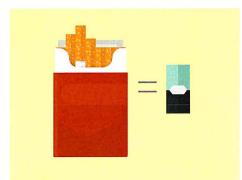
# AN INCREASINGLY POPULAR E-CIGARETTE DEVICE, CALLED JUUL, IS SHAPED LIKE A USB FLASH DRIVE.



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 class-rooms 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

# 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.



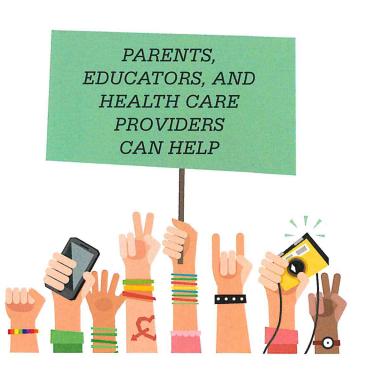
#### **EDUCATORS CAN:**

- » 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.



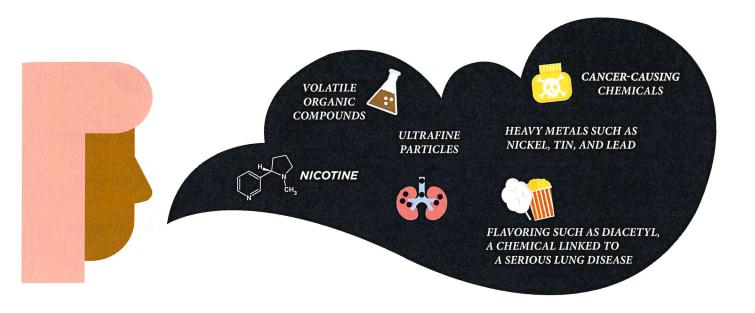
# PEDIATRIC HEALTH CARE PROVIDERS CAN:

- » 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.



### 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.

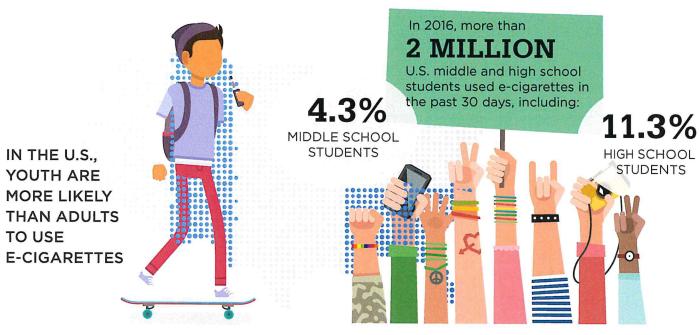


YOUNG PEOPLE
WHO USE
E-CIGARETTES
MAY BE MORE
LIKELY TO GO
ON TO USE
REGULAR
CIGARETTES.



#### WHO IS USING E-CIGARETTES?

E-CIGARETTES ARE NOW THE MOST COMMONLY USED TOBACCO PRODUCT AMONG U.S. YOUTH.





among current e-cigarette users aged 18-24 years, 40.0% had NEVER BEEN cigarette smokers

# **ADULTS**

In 2016, **3.2%** 

IN 2015, AMONG ADULT E-CIGARETTE USERS OVERALL:

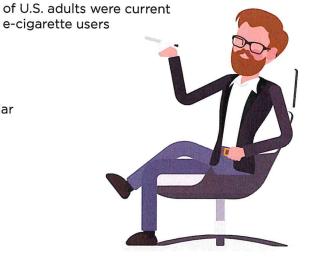
29.8% were former regular smokers

11.4% had never been regular cigarette

smokers



**58.8%**were current regular cigarette smokers



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