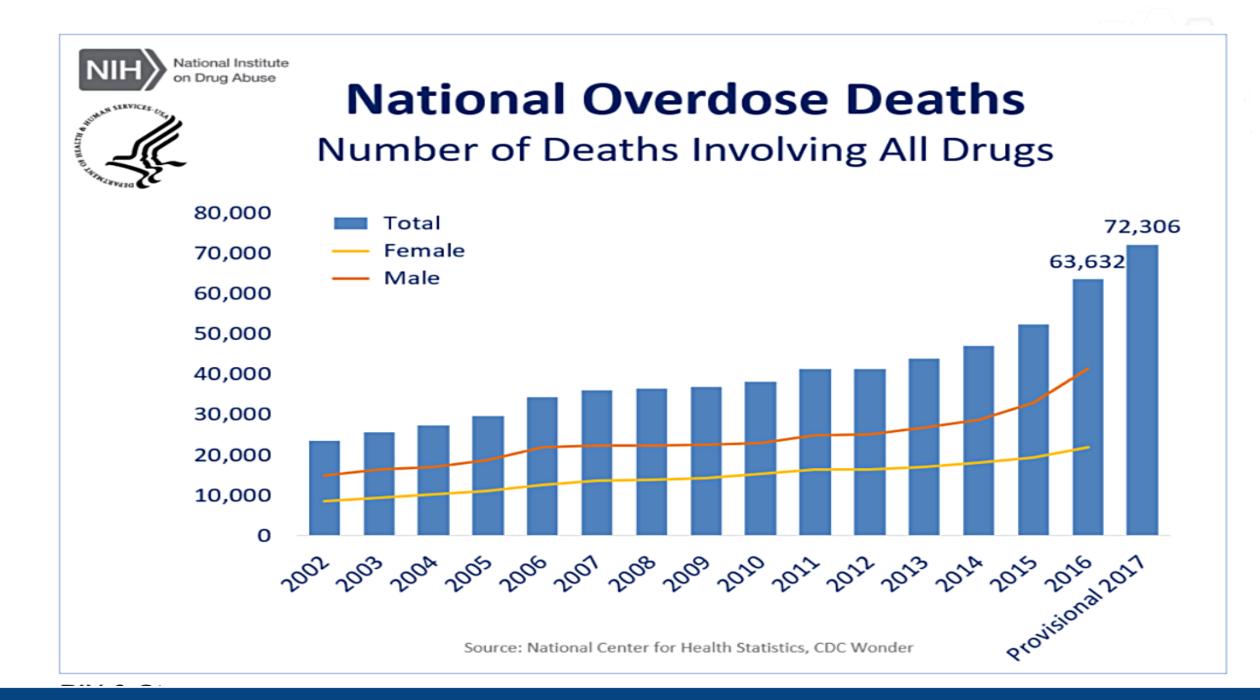
Vaping: ENDS and BHO



Today's trendy tobacco and marijuana

Stephanie Siete Public Information Officer





Vaping 101



- Hit
- Rip
- Juul
- Phix
- Cloud
- #DI4J
- ENDS
- Dripping
- Mods
- Suorin

- Wax
- Dabs
- Goo
- #710
- Budder
- Concentrates
- Oil
- Shatter
- Juice
- Honey

Concerns/Thoughts



- Many teens do not believe e-cigs contain nicotine
- Many believe it is just flavoring
- Early e-cigarette use and nicotine addiction can harm brain development and increase the risk of young people smoking cigarettes
- Youth e-cig use increased 10 fold from 2011-2015 (CDC)
- Teenagers should be inhaling air, not products with toxins in them

Electronic Nicotine Delivery Systems (ENDS)



• Vaporizers, vape pens, hookah pens, electronic cigarettes, e-pipes, mods, juuls, etc.

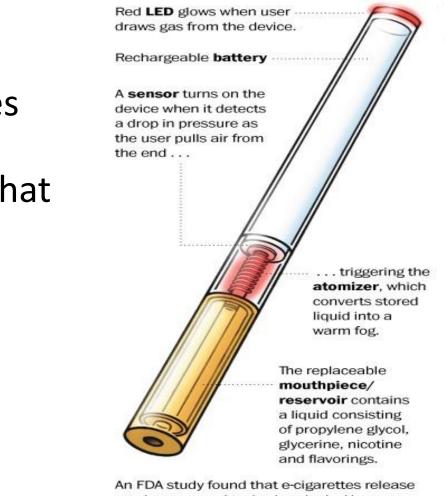


E-cigarettes

- According to the FDA, electronic cigarettes are battery-operated devices the turn nicotine or other chemicals into a vapor that is inhaled by the user
- Use on the rise among teens
- Easy to conceal other drug use
- Liquid nicotine = potential hazard
- "Vaping" or using "Dabs"
- Vaping Pens...

The electronic cigarette

It may look like a cigarette and deliver a dose of nicotine, but that's where the similarity ends.



An FDA study found that e-cigarettes release carcinogens and toxic chemicals. However, they might be safer than regular cigarettes because they don't release tar, carbon monoxide, hydrogen cyanide and other poisons found in cigarette smoke.

Sources: Tobacco Control, FDA

What is in e-cigarette aerosol?



- The e-cig aerosol that users breathe from the device and exhale contains harmful substances, including:
 - Nicotine
 - Ultrafine particles that can be inhaled deep into the lungs
 - Flavoring such as diacetyl, a chemical linked to a serious lung disease
 - Volatile organic compounds (VOCs)
 - Cancer-causing chemicals
 - Heavy metals such as nickel, tin, and lead

E-cig use and teens



- Use among middle and high school students tripled from 2013-2014
- High School
 - 4.5% to 13.4%
 - 660,000 2 million
- Middle School
 - 1.1% to 3.9%
 - 120,000 450,000



Teen Vape Use



- 36% of 12th graders had tried some form of vaping in 2017
 - Compared to 4% of 12th graders smoked cigarettes in 2017
- 10% of 8th graders

• 14% of 10th graders





ENDS and Teen Use



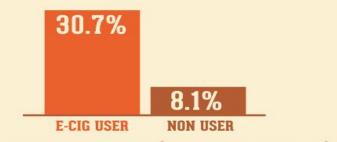
• More than 3 million middle and high school students were current users of e-cigs in 2015

• In 2014, **81% of current youth e-cig users** cited the availability of appealing flavors as primary reason for use

- How do they obtain:
 - Visa gift cards → Amazon Account = Purchase
 - eBay gift cards

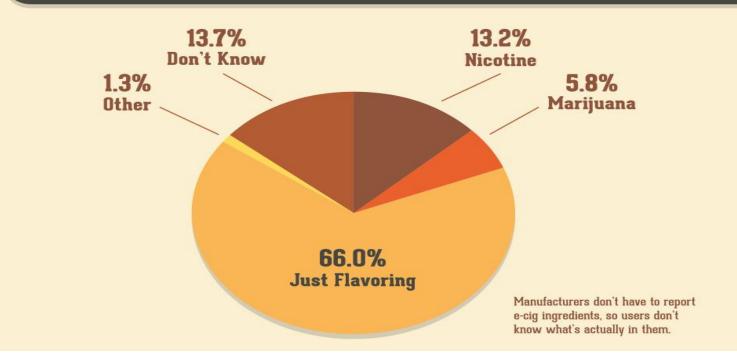
TEEN E-CIG USERS ARE MORE LIKELY TO START SMOKING.*2

Start Smoking Within 6 Months



*Includes combustible tobacco products [cigarettes, cigars, and hookahs]

WHAT DO TEENS SAY IS IN THEIR E-CIG?³





E-cigarette Liquid

1K13

What does it look like?















Feds crack down on e-liquid packaging that looks like candy, juice boxes

May 1, 2018

Federal regulators warned 13 companies that the way they market liquids used in cigarettes could entice dangerous ingestion by small children. (U.S. Food and Drug Administration)

Warning



 Endangering children by marketing e-cig liquids to resemble kid-friendly products... juice boxes, candy and whipped cream

 Packaging of the products — some cartoonlike images — could mislead children into thinking toxic liquids are ok to eat and drink



















apple In location with Administration

O LIVE DE









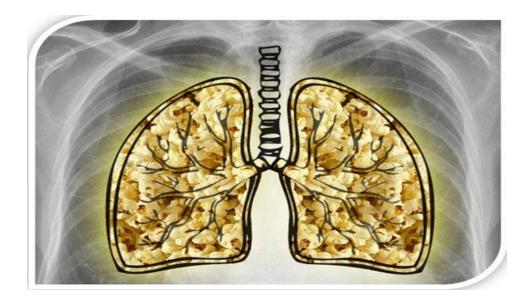
• "This vape is so authentic to your favorite soda pop that you'll think you're sipping it from a straw rather than your electronic cigarette."



Stanford Research into the Impact of Tobacco Advertising.



 E-cig liquids - Irreversible lung damage – Popcorn Lung





THE WALL STREET JOURNAL. Schools and Parents Fight a Juul E-Cigarette Epidemic^{""}



 The New York Times

 I Can't Stop': Schools Struggle

 With Vaping Explosion



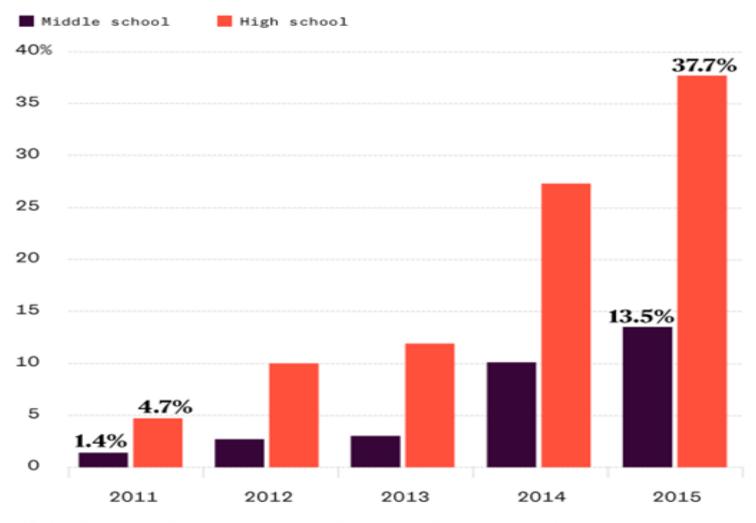
Vaping Now An Epidemic Among US High Schoolers

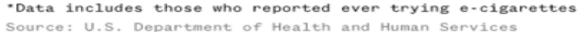
TobaccoFreeKids.org



Alarming trend

Doctors, parents worried about 'juuling,' a teen e-cigarette fad. Percentage of middle-school and high-school students who have ever used e-cigarettes









Juul – The iPhone of e-cigs









The 2018 National Youth Tobacco Survey from the Food and Drug Administration and the Centers for Disease Control and Prevention



- JUUL, accounted for <u>76% of the e-cigarette market</u> at the end of 2018
- E-cigarette use among middle schoolers increased by 48% and increased by 78% among high schoolers in just one year
- Frequency of use among current high school e-cigarette users surged, with nearly 28 percent vaping more than 20 times per month

Dangerous Product for Youth



- Over 7,000 fun flavors
 - Cotton candy, gummi bear, strawberry
- Devices look like pens, USB drives, phone chargers, etc.
- One juul pod of nicotine = entire pack of cigarettes
- #doit4juul
- #DI4J
- <u>https://www.instagram.com/p/BfwV6IEh1pC/</u>
- https://www.instagram.com/p/BfwV6IEh1pC/



630/0 **OF JUUL USERS DON'T KNOW THAT THE PRODUCT ALWAYS CONTAINS NICOTINE.**



truthinitiative.org

More about Juuling...





More about Juuling...



- Today Show and Juuling April, 2018
- Is your teen 'juuling'? Why parents and doctors are so worried
- <u>https://www.cbsnews.com/news/vaping-health-effects-rising-use-among-teens/</u>

Who is Altria?



• Tobacco Giant - Altria Made a \$12.8 Billion Investment in Juul

 With a \$12.8 billion investment, Altria, the nation's leading tobacco company, now owns 35% of Juul Labs, maker of the country's most popular e-cigarette

– Juul now valued at \$38 Billion



Philip Morris and Marlboro

- PM is Largest tobacco company in the US and more than 150 years old
- Altria invested \$1.8 billion into Canadian cannabis company, Cronos Group (45% stake)





\$15.99 per 4-pack FREE SHIPPING*

Each pack contains 4 pods. Each JUULpod contains 0.7mL with 5% nicotine by weight, approximately equivalent to 1 pack of cigarettes or 200 puffs.





JUUL "Juuling" #JUULVAPOR







JILI BOX

MINT

22

-44

0.9



Behind the JUUL

45[%]

26%

FRUIT MEDLEY

13%

9%

1%

The information below offers a description of the parts of a JUUL.

*NOTE: The poll was done on vaping360.com and the results reflect more that

TOBACCO

JUULpod: Contains flavored nicotine liquid, equal to approximately one pack of cigarettes. Functions as mouthpiece.



Circular Indicator: Glows to reflect charge level. Double tap on device to show charge level.

Magnetic USB: Fully charges JUUL in approximately one hour.















HOW DOES IT WORK?

START WITH YOUR JUULPOD

Remove colored cap & insert cartridge end into device. Voila - it becomes your mouthpiece as well as the flavorful engine that powers JUUL.

No buttons or switches, just draw to get it going - carefully at first, it may seem strong to first-timers.



CONSULT THE INDICATOR

The indicator glows during use to reflect pull strength and while charging. When pod is inserted, gently tap device twice to show charge level.



100

CHARGE IT

Stand device in magnetic USB charger. Reaches full charge in 1 hour.

....

5

5



 The ultra-portable revolution is in full swing, and the pod based Phix system by Major League Vapers makes a good case for why it should be your ultraportable of choice!

Phix Vape Kit





Phix vs. Juul



- Phix
- 6 flavors
- 5% nicotine content
- One pod = 400-450 puffs
- Easy to use
- Discreet



- Juul
- 8 flavors
- 5% nicotine content
- One pod = 200 puffs
- Easy to use
- Discreet
- Cheaper











Suorin Air Indicator Light **On-Off** Switch Micro USB Port Cartridge **Mouth Piece** Battery



Mods "Modding"



- They have more features than regular e-cigarettes, customizable options, long battery life, and most importantly, they produce more vapor
- "Modifying" them to accommodate larger batteries and higher resistance atomizers, and better cartridges and tanks

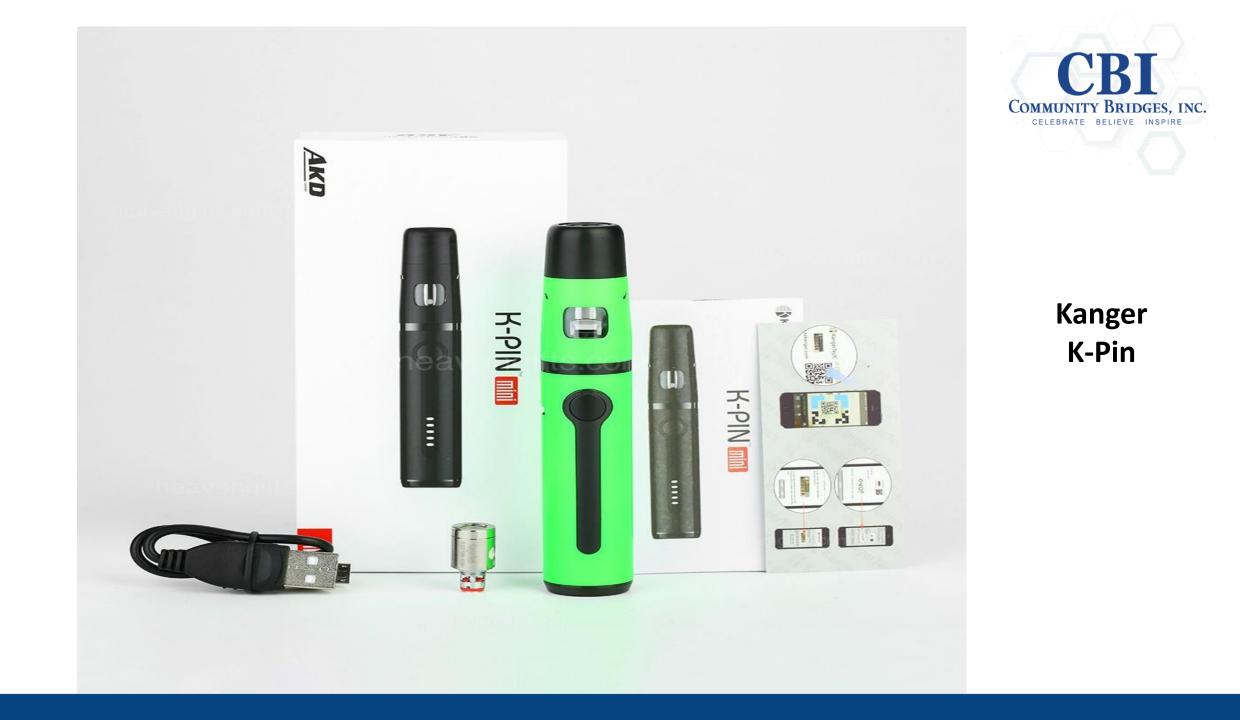




More Mods







E-cig explosions





FOX 5 INJURIES SO SEVERE, MAN WAS FLOWN TO UAB BURN UNIT

16 year old teen suffers 2nd degree burns to face



Teens and Vape explosions

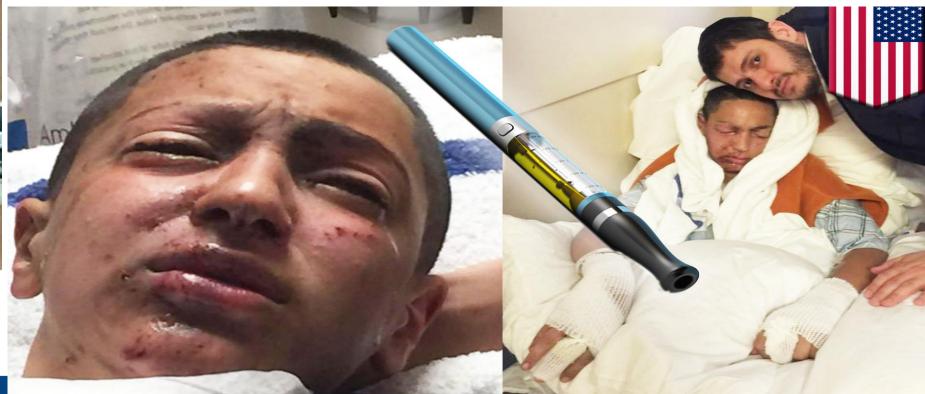
●●●○○ Verizon	LTE 🍄	9:17 AM	🕇 27% 🗖
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This is it I got stitches and wires on my bottom jaw





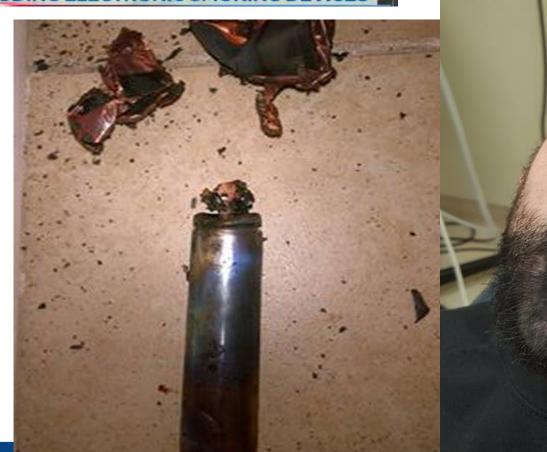






Man loses 7 teeth after vaping explosion

Man loses part of tongue after vaping explosion





E-cig Explosions



- E-Cig Blows up in Man's Pocket
- E-cig lodges into ceiling after blowing up in man's hand



Burned Florida Man Was Killed by Exploding Vape Pen

By James Tennent On 5/17/18 at 8:18 AM



- A man in Florida died when his vape pen exploded, firing two pieces of the device into his head before his house set on fire, leaving his body heavily burned, (medical examiners report has said)
- The death is thought to be the 1st in the U.S. directly related to the use of one of the popular devices
- Individual died from a "projectile wound of head" and 80 percent of his body suffered burns in the subsequent fire
- The device was manufactured by Smok-E Mountain, with The New York Times reporting that the company's logo appeared on one of the object found in D'Elia's cranium

U.S. Edition + ho \equiv Live TV 🔎

A man dies after his e-cigarette explodes in his face



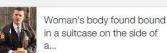
By David Williams, CNN Updated 11:06 AM ET, Tue February 5, 2019

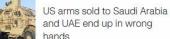


Authorities say William Brown died after the e-cigarette he was using exploded.



More from CNN





and UAE end up in wrong hands



Don't be relevant. Be hyper-relevant. Sustainable growth comes from adapting to the evolving needs of customers, at speed and at scale. Learn how to become a Living Business.



(CNINI) By using this site, you agree to our updated Privacy Policy and our Terms of Use. 5:11 PM Ţ w Type here to search 0 2/11/2019

5 Tips to help avoid vape battery explosions





Poisons



- "E-liquids," are a mix of nicotine, flavors and other ingredients
 - Ingesting them can cause nicotine poisoning and even death for small children
- Between January 2012 and 2017 there were more than 8,200
 e-cig and liquid nicotine exposures among children younger than 6





 Thirty-one percent of the students cited the availability of flavors, such as mint, candy, fruit or chocolate, as a reason for e-cigarette use

 Research shows that young people are more likely to try flavored e-cigs and believe that they are less harmful than tobacco-flavored ones

What is propylene glycol in E cigarettes?



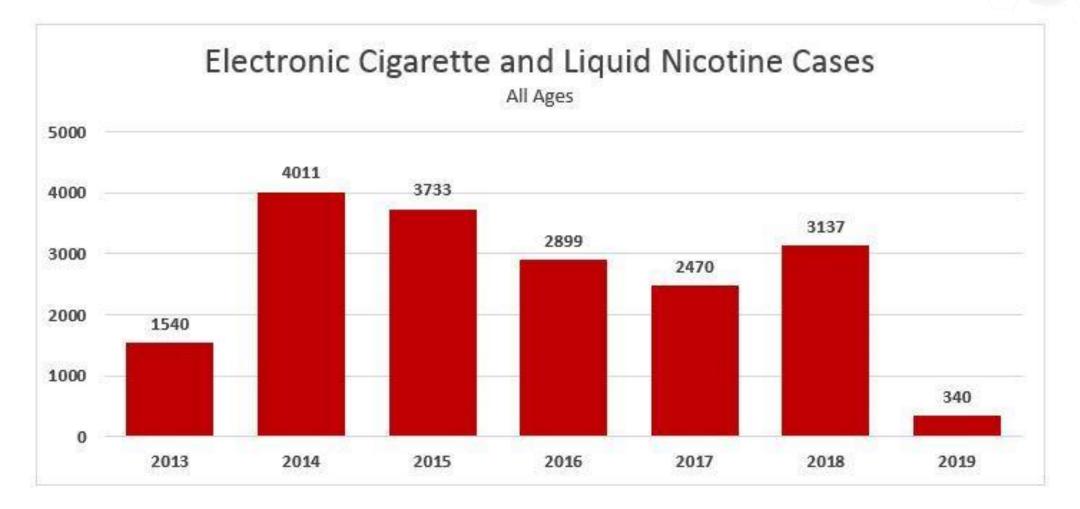
- **Propylene Glycol** is the chemical used to create the visual smoke seen when vaping an electronic cigarette
- The **Propylene Glycol** (PG) is added to the liquid nicotine, water, and flavorings used while making e juice (sweet taste)
- Heated creates the vapor and potential hazards of lung irritants
 - Contributes to "popcorn lung" with diacetyl (an artificial flavor with a buttery taste)

Electronic Cigarettes and Liquid Nicotine Exposures - AAPCC

Year	Number of Cases
2011	271
2012	460
2013	1,543
2014	4,024
2015	3,774
2016	2,886
2017	2,450
2018	3,146
2019 (thru Mar)	963





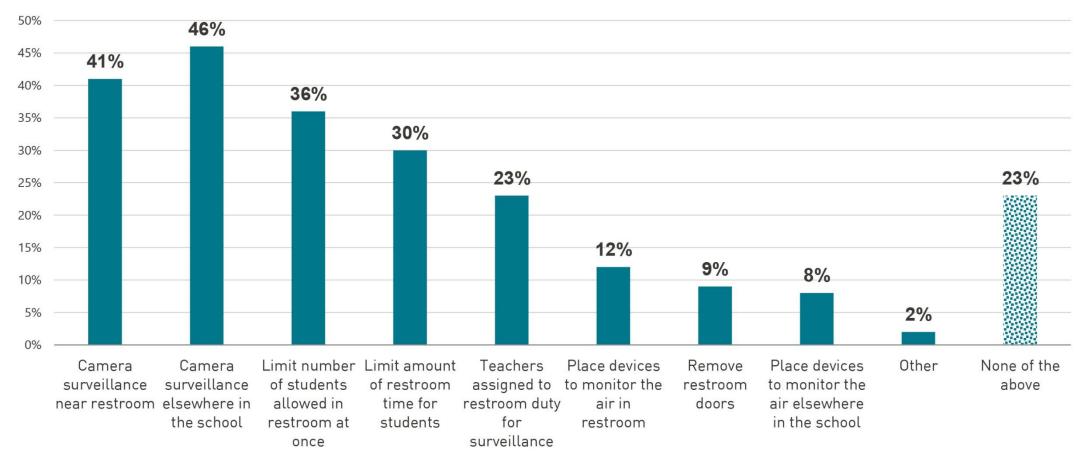


Types of tobacco and liquid nicotine-related exposures reported to poison centers:



- A child swallows a cigarette butt he found on the ground
- An adult accidentally rubs liquid nicotine into her eyes after refilling an e-cigarette cartridge
- An adolescent experimenting with smokeless tobacco swallows a mouthful of the product
- A child tastes liquid nicotine because it has a pleasant smell

What have schools done about e-cigarettes?



Source: November 2018 survey of 1,525 middle and high school teachers and administrators across the U.S.

.



Warning – Which is Which?





Dab Pen



- A vaporizer pen specifically designed to vape cannabis concentrates
- A regular dab pen comes with atomizers, coils for heating the material and mouthpiece, which you inhale through to get the vapor
- **Dab pens** come in all shapes and sizes, and their diversity and availability contribute to their popularity

Wax Pen Starter Kits



Zipper Carry Case



Pens and containers











Wax, Dabs, Goo, Honey, Shatter, Budder, BHO

Butane Honey Oil (BHO) Dabs, Wax, Budder, Shatter



- Similar to oils, but more concentrated; thus greater high
- Cooked like meth; acts like meth: psychotic breaks
- Passing butane through a tube packed with marijuana
- Leaves extracted resin behind as a sticky, thick oil-like substance
- Risk of explosion
- Up to 90% THC



Potency



• 1960-1990s – 2-3% THC (leafy green)

Today the oil or concentrate can be anywhere from
 70-90% pure

• Quicker high









Co2







Live Resin Shatter Bubble Hash



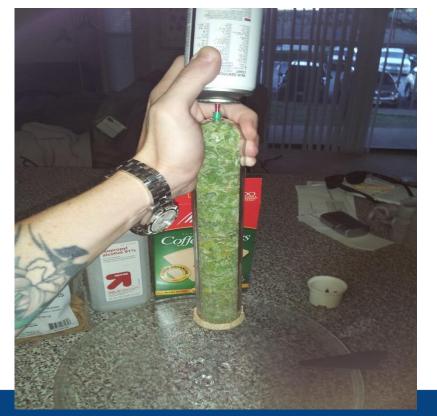
Crumble





Budder Sugar Wax

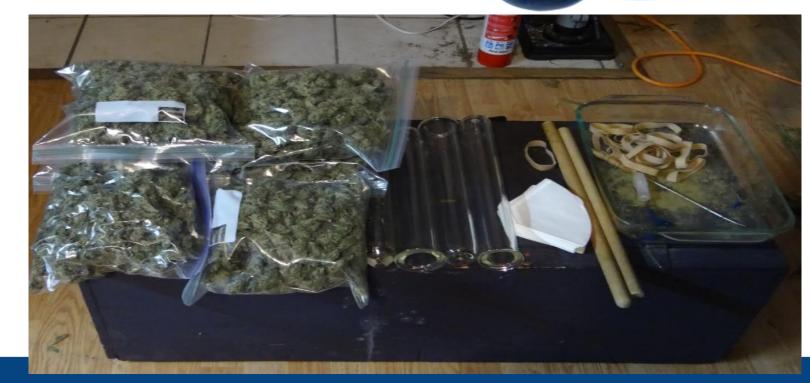




The BHO Process









CBI

www.dailydabs420.com

Wax cooks = "Boom!"



• Wax is to marijuana as freebasing is to cocaine or heroin and what the shake-and-bake method is to meth

• Very, *very* dangerous

• When using butane to make wax, its vapors can fill a room and ignite with the smallest of sparks, just like gas



BHO Explosions - video

The following video contains contant that may be disturbing to some. Viewer discretion is advised

BHO Explosions





Extremely dangerous for you, loved ones, neighbors, the community



THC Extracts Vaping: How it Works



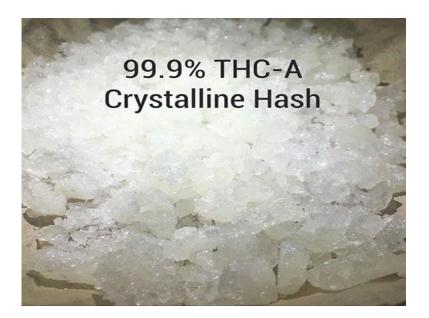
- Vaping wax with a dab pen or e-Nail is the gold-standard in using extracts because it induces a clear, clean high, and does not produce any smoke
- Marijuana wax and oil usually contains about 80% THC compared to top-shelf dry herb, with a mere 20%



Crystalline THC



• THCa Crystalline was developed as a means of delivering large, quantifiable doses of THCa and is known as the purest isolate anywhere on the market testing at 99-100%





According to the vape.guide



 Vaporization implies vaporizers produce little to no marijuana scent and no smoke, though, as the name suggests, they do produce vapor that quickly dissipates

 Vaping THC concentrates produces a stronger and purer high than smoking does

 "Vaping THC extract is the best method for users who value convenience, their health, and want the **purest high** available"

THC'S MANY FORMS



Smoking Marijuana Dried flower buds from the cannabis plant



Smoking Cannabis or Hashish Oils

Made from resin extracted from the flower cluster and top leaves of the plant



Using a Vaporizer

Cannabis that's heated and vaporized, not burned



Marinol

FDA-approved medicine that contains synthetic THC



Edibles Food, drinks, oils



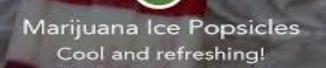


Marijuana Edibles





Marijuana Edibles





thestonerscookbook.com























Third Death in Colorado Linked to Marijuana Edibles



http://www.foodsafetynews.com/2015/03/third-death-in-colorado-linked-to-edible-marijuana/#.VUqoaLctFdg

- 1. Colorado dad pleads not guilty to shooting his wife dead in front of their three sons after 'hallucinating on pot candy' March, 2015
 - Kristine Kirk, 44, was shot dead at her Denver home in April 2014. She was on the phone to 911 reporting her husband's 'scary' behavior. He was 'talking about the end of the world', she said to the dispatcher
- 2. Wyoming college student Levy Thamba Pongi, 19, who took a leap from a Denver hotel balcony after eating pot-infused cookies. "Marijuana intoxication" was listed by the coroner as a significant factor in his death.
- 3. Luke Goodman, 23, killed himself Saturday, March 27, 2015 in a condo at Colorado's Keystone Ski Area. Goodman's family and friends suspect that edible marijuana was a factor in the self-inflicted gunshot death. His mother, Kim Goodman, blames her son's death on "a complete reaction to the drugs."

Kristine Kirk and her children in an undated photo. Kristine's parents and sister are now legal guardians of the children





Kirk's children have filed the nation's first wrongful-death lawsuit against a recreational marijuana company, claiming their father ate a pot-laced Karma Kandy Orange Ginger, a Tootsie-Roll-like chew, that triggered the April 14, 2014, shooting.

Then

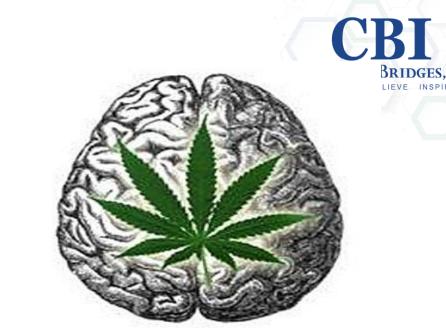


- 1960-1970s 2-3% THC (leafy green)
- 420 (chemicals, time to smoke, date to party)
- Smoked weed



Now

- 20-30% THC (leafy green)
- **710** (oil, concentrated w more chemicals)
- Vaped, smoked, edible, dabbing
- Might not smell it
- Looks like butter, honey, oil
- Synthetic: cooked with butane
 - 90% THC
 - Psychotic breaks
 - Violent behaviors







BHO is 710 is Oil

710

OIL

THC



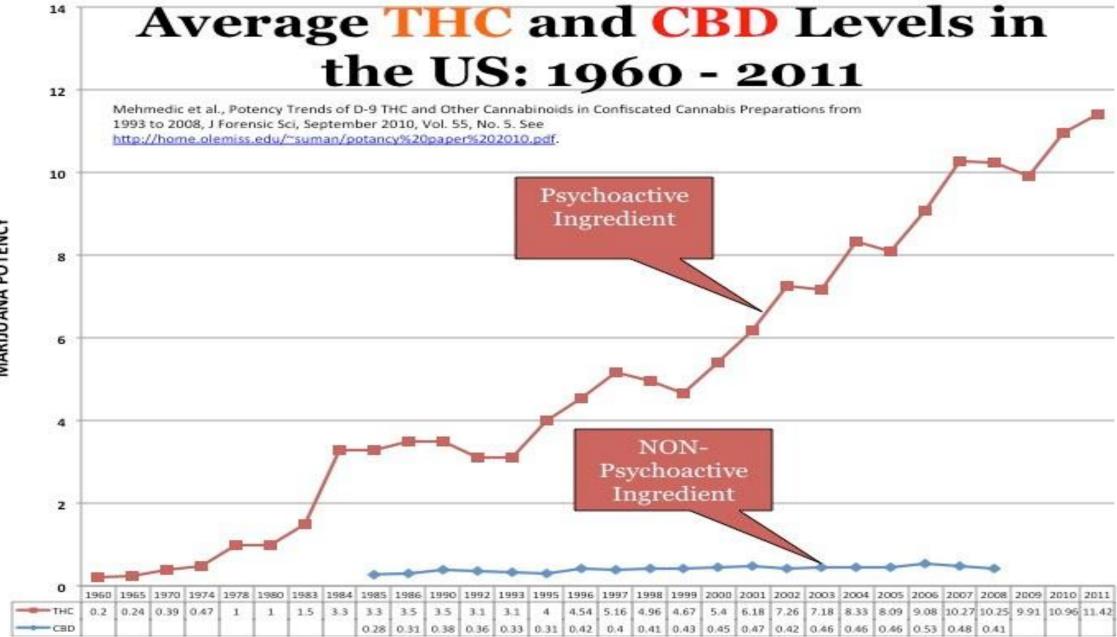
- Tetrahydrocannabinol
- Psychoactive ingredient in marijuana (high)
- Can cause paranoia or anxiety
- Mind altering
- Induce sleepiness



CBD



- Cannabidiol
- AKA: Medical Marijuana
- Non-psychoactive (no high does not act on same receptors as THC)
- May reduce anxiety
- May have antipsychotic properties reducing the psychosis-like effects of THC
- Promote wakefulness



MARIJUANA POTENCY

Resources



- <u>https://www.tobaccofreekids.org/</u>
- <u>www.aapcc.org</u> or 1.800.222.1222
- <u>https://e-</u> <u>cigarettes.surgeongeneral.gov/documents/2016_SGR_Full_Report_508.p</u> <u>df</u>
- <u>https://www.cdc.gov/tobacco/basic_information/e-cigarettes/index.htm</u>
- <u>https://www.washingtonpost.com/local/public-safety/juuling-if-you-dont-know-what-it-is-ask-your-kids/2018/05/09/37e2f026-4d65-11e8-84a0-458a1aa9ac0a_story.html?utm_term=.705cee4b8f42</u>



What You Need to Know And How to Talk With Your Kids About Vaping



Although it has been around for over a decade, vaping's popularity exploded in 2017, taking many families, schools and healthcare providers by surprise. Vaping, or Juuling as it is often referred to by teens and young adults (named after a popular vape device called JUUL), is the inhaling and exhaling of an aerosol produced by using a vape device.

According to the University of Michigan's 2017 Monitoring the Future study, nearly 1 in 3 high school seniors tried vaping in the past year. With advertising geared toward teens and young adults, brightly colored vape pens and thousands of flavors to choose from, the expectation is that growth will continue. Some estimate that the market will be worth over \$60 billion by 2025.

For every story or article touting the benefits of vaping, there are an equal number raising concerns about the risks of vaping, especially for teens and young adults. This guide is intended to help you understand what vaping is, its appeal to youth and what research has to say about both the risks and unknowns, due to the lack of long-term vaping studies. We've identified some signs to look for and what to do if you are concerned that your child may try or actually is vaping. Lastly, we offer some advice on what to say when talking with your child about vaping.

What Is in This Guide?



Teen using a JUUL

Nearly1in3 high school seniors tried vaping in the past year.

Monitoring the Future, 2017

© Partnership for Drug-Free Kids, Fall 2018

2 | Parent Helpline 1-855-DRUGFREE | www.drugfree.org/helpline | text a question to 55753





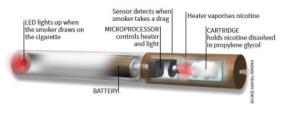
<u>https://drugfree.org/</u> <u>parent-blog/how-to-</u> <u>talk-with-your-kids-</u> <u>about-vaping-guide/</u>

What is Vaping?

Vaping is the act of inhaling and exhaling aerosol or vapor produced by a vape device. Because of the rise in popularity of JUUL, a specific type of vape device, many teens and young adults use the term "JUULING" (pronounced Jeweling), instead of vaping.

How Does Vaping Work?

Vape devices, known as *e-cigs*, *e-hookahs*, *mods*, *vape pens*, *vapes*, *tank systems* and *Juuls*, contain 4 basic components: a cartridge or a tank to hold e-liquid (or e-juice/vape sauce), a heating element known as an atomizer, a battery and a mouthpiece to inhale.



A sensor detects when a person is trying to inhale. This triggers the battery to supply electricity to the coil of wire or the atomizer. The heat given off by the coil is transferred to the e-liquid, which can only take so much energy before it's vaporized, and this is what users inhale. While the output of the devices may look like smoke, it is actually vapor.

What Do Vape Devices Look Like?

Some vape devices look like regular cigarettes, cigars or pipes while others resemble USB sticks and other everyday objects like a guitar pick. Larger devices such as tank systems, or "mods," do not look like other tobacco products. Instead, they look more like a small cellphone. Some devices can be thrown away, while others can be reused by charging the device on the USB port of a computer or elsewhere and replacing the e-liquid, either by filling the chamber or using a self-contained pod.

What Is Being Vaped?

Although many substances can be vaped, three are most common: flavored e-liquids, flavored e-liquids with nicotine, and marijuana. The e-liquids come

Vape devices can look like regular cigarettes, cigars or pipes, while others resemble USB sticks, guitar picks and a small cellphone.

←→



Vape pens generally are available for \$20 and up. Current pricing for the JUUL starter kit is \$49.99, which includes the device, a charger, and 4 flavored pods.





The Truth Initiative

- <u>https://truthinitiative.org/</u>
- To access the new ecigarette quit program...
- Text "QUIT" to
 (202) 804-9884



Don't waste time...



- Tell others
- Be proactive
- Prioritize healthy decisions/conversations
- Be honest and direct
- Keep it real

Thank You!



Stephanie Siete Public Information Officer

> Access to Care - 24/7 877.931.9142

CommunityBridgesAZ.org https://www.facebook.com/CommunityBridgesAZ ssiete@cbridges.com 602.377.4591

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