Vaping: ENDS and BHO



Today's trendy tobacco and marijuana

Stephanie Siete
Public Information Officer

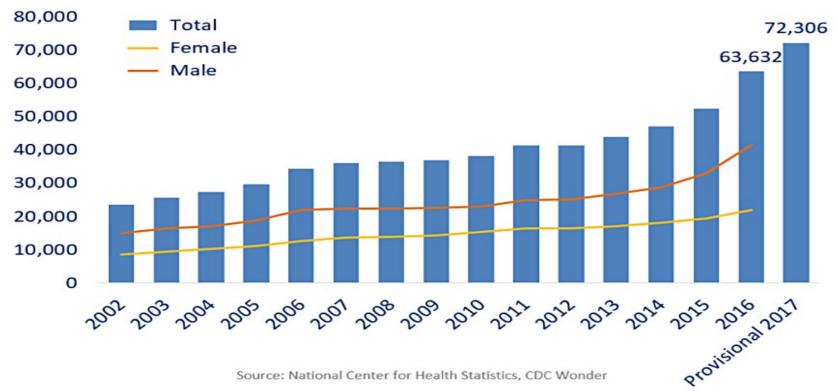






National Overdose Deaths

Number of Deaths Involving All Drugs



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





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

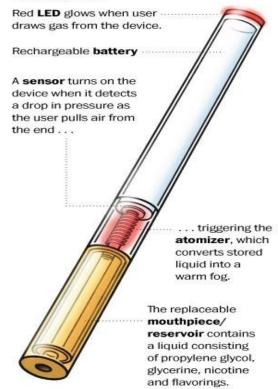


E-cigarettes

- 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

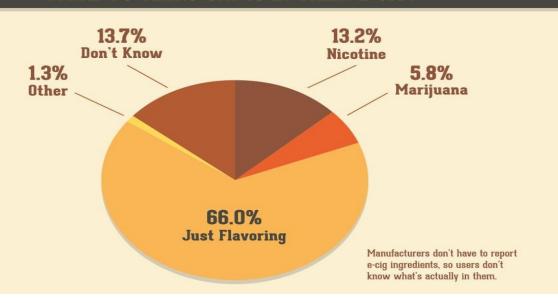
TEEN E-CIG USERS ARE MORE LIKELY TO START SMOKING. *2





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

WHAT DO TEENS SAY IS IN THEIR E-CIG?3





What does it look like?

Built In

Atomizer

Re-Fillable Tank Style E-Cigarette

Re-Fillable

Tank

Vaping pens

Nicotine Cartridge

Atomizer

Battery

Cartridge Style E-Cigarette



E-cigarette Liquid













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





E-liquid



Food product





E-liquid



Food product





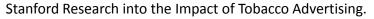


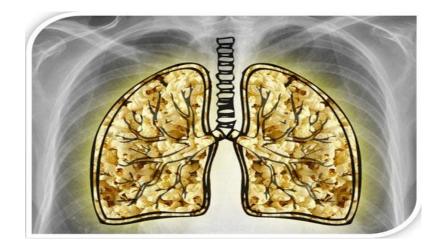
 "This vape is so authentic to your favorite soda pop that you'll think you're sipping it from a straw rather than your electronic cigarette."



 E-cig liquids - Irreversible lung damage – Popcorn Lung









THE WALL STREET JOURNAL.

Schools and Parents Fight a

Juul E-Cigarette Epidemic



JUULing is the New Teen Vaping Fad
Taking Over School Bathrooms

The New York Times

44 'I Can't Stop': Schools Struggle
With Vaping Explosion ""



Vaping Now An Epidemic Among
US High Schoolers

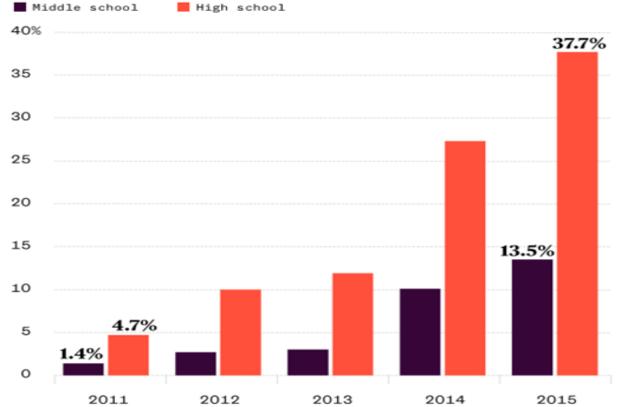


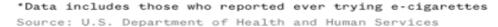
CAMPAIGN For TOBACCO-FREE Kids

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







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
- https://www.instagram.com/p/BfwV6IEh1pC/
- https://www.instagram.com/p/BfwV6IEh1pC/



OF JUUL USERS DON'T KNOW THAT THE PRODUCT **ALWAYS CONTAINS NICOTINE**



truthinitiative.org









More about Juuling...



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





JUULpod

\$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.







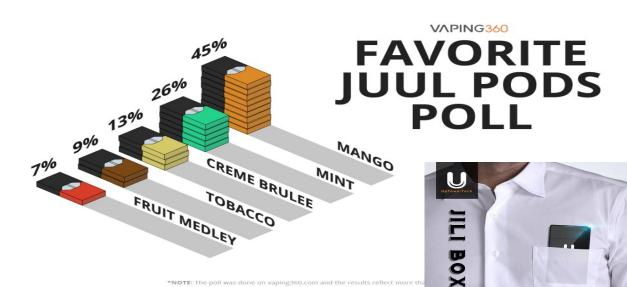
JUUL JUUL JUI



JUUL "Juuling" #JUULVAPOR





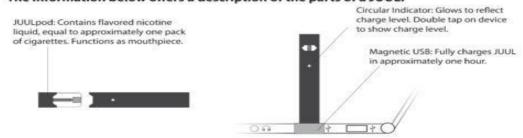




*NOTE: The poll was done on vaping360.com and the results reflect more th

Behind the JUUL

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

















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.



red = low



CHARGE IT

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





Phix Vape Kit





 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 vs. Juul



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



VS



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













Suorin Air





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











Kanger K-Pin

E-cig explosions





16 year old teen suffers 2nd degree burns to face





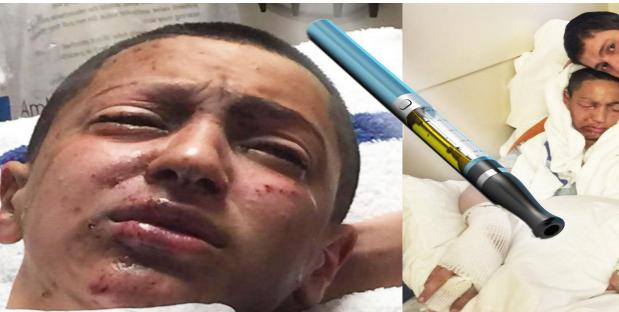


Teens and Vape explosions



This is it I got stitches and wires on my bottom jaw



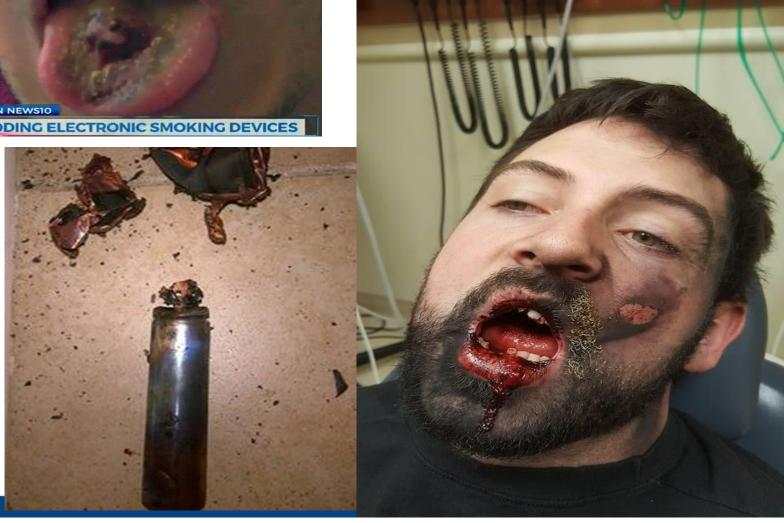


VAPING WARNING USERS REACT



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

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

Teens inhale cancer-causing chemicals in e-cigs Fruit flavors have the most chemicals, study finds



- 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)





Year	Number of Cases
2011	271
2012	460
2013	1,543
2014	4,024
2015	3,774
2016	2,886
2017	2,450
2018 (thru Sept)	2,226

More than half of these reported exposures have occurred in young children under the age of 6

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



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





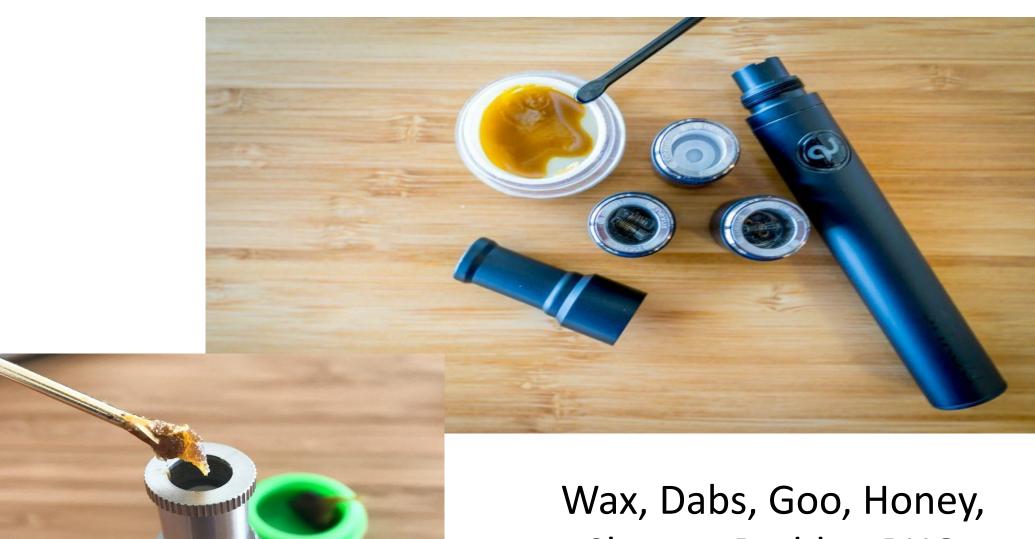
Pens and containers











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



• 1960-1970s - 2-3% THC (leafy green)

Today the oil or concentrate can be anywhere from

70-90% pure

Quicker high









RSO

Co2







Live Resin Shatter Bubble Hash







Crumble

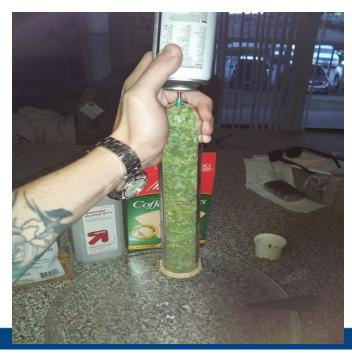
Budder Sugar Wax















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



WARNING

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

BHO Explosions

CBI



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,

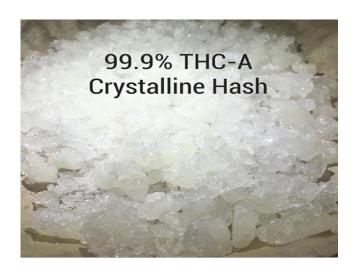
with a mere 20%



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



Marijuana Ice Popsicles

























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



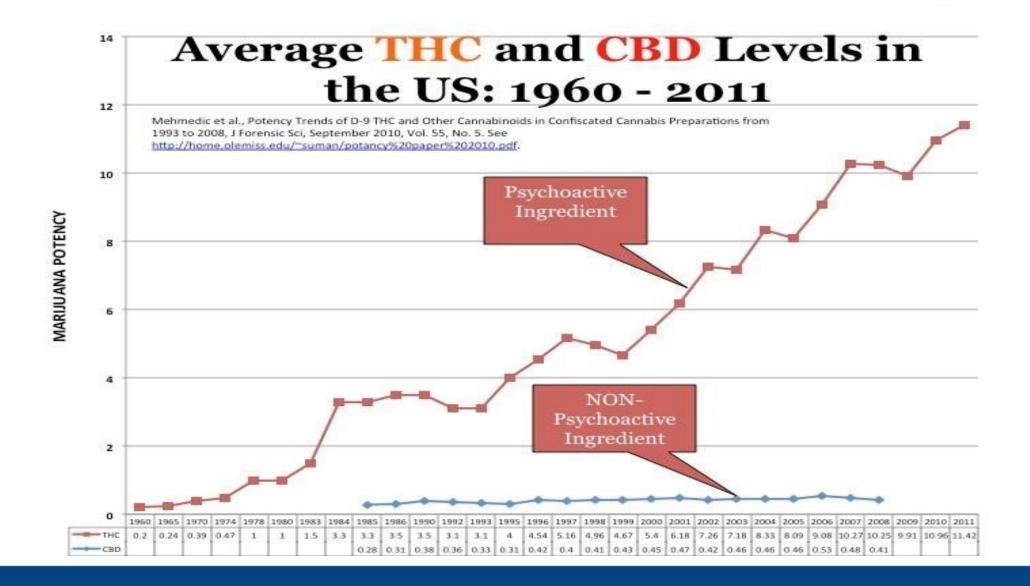
- Tetrahydrocannabinol
- Psychoactive ingredient in marijuana (high)
- Can cause paranoia or anxiety
- Mind altering
- Induce sleepiness



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



Resources



- https://www.tobaccofreekids.org/
- www.aapcc.org or 1.800.222.1222
- https://ecigarettes.surgeongeneral.gov/documents/2016 SGR Full Report 508.p df
- https://www.cdc.gov/tobacco/basic_information/e-cigarettes/index.htm
- 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

Don't waste time...



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

Thank You!



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