

21% of all high school students in the U.S. report using an e-cigarette product in the past 30 days.

CDC Vital Signs: Tobacco Product Use Among Middle and High School Students, 2019



40% of students who use vaporizers use them because they taste good. Only 10% use them in an attempt to quit smoking combustible cigarettes.

King, B.A., et al., 2014

TYPES OF FLAVORED PRODUCTS

- **▶** Electronic Cigarettes
 - **▶** E-cigarettes
 - Vape pens
 - ► Mods / tanks
 - ► Pod Mods (JUUL)
 - **▶** Liquid Nicotine Solution







TYPES OF FLAVORED PRODUCTS

- Menthol Cigarettes
- **▶** Cigars
 - Little cigars
 - Cigarillos
 - Large cigars
- **▶** Smokeless Tobacco
 - Chewing tobacco
 - Dip
 - ▶ Snuff
 - **▶** Snus
- ► Shisha/ Hookah Tobacco







CANDY, FRUIT, ALCOHOL FLAVORS







Do flavors attract kids?

Flavored cigarettes were "starter products" for youth and thus, Congress banned them in 2009, with the exception of menthol.

Top reasons teens report trying e-cigarettes:

- Curiosity (54%)
- Appealing flavors (44%)
- Peer influences (32%)

Kong, G; Morean, M.E.; Cavallo, D.A.; Camenga, D.R., Krishnan-Sarin, S. (2014).





JUUL – Leading a New Epidemic

Benzoic acid reduces the harshness of a hit of the JUUL aerosol. This makes them easier to smoke and therefore easier to become addicted to tobacco.



One pod = equals the same amount of nicotine as a pack of cigarettes

tobaccopreventiontoolkit.stanford.edu





The aerosol emitted from heated e-liquids emits toxic chemicals known to cause cancer, birth defects, and other reproductive harms

Daniels, M., 2015



FILTERED CCO FLAVOR Ölassic

New Orleans Tobacco Blend



©TURKISI

TRIBECA

SMOOTH TOBACCO FLAVOR

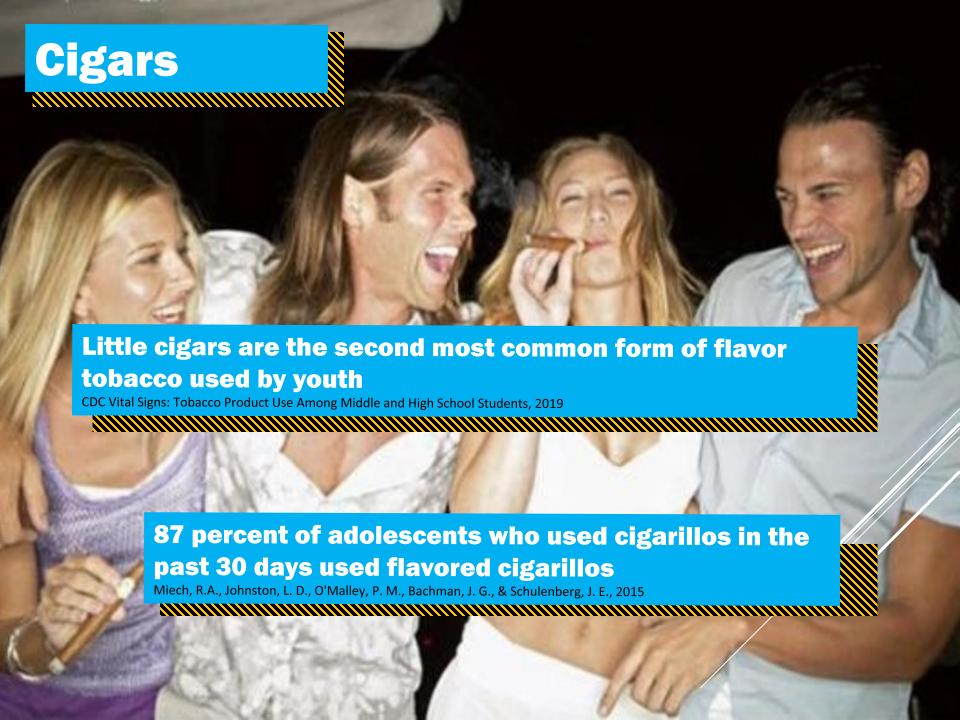
LONGHORN

The toxicity of a 60 mg does of liquid nicotine is similar to or even higher than that of cyanide

Goniewicz, M.L., et al., 2014

PREMIUM E-LIQUID

trStt. 2012







Hookah smoking is associated with lung cancer, respiratory illness, and periodontal disease

Akl, E.A., et al., 2010



Teens that use hookah are 2-3 times more likely to star smoking cigarettes and become current smokers

Primack, B.A., et al., 2016

Menthol Cigarettes



Newport

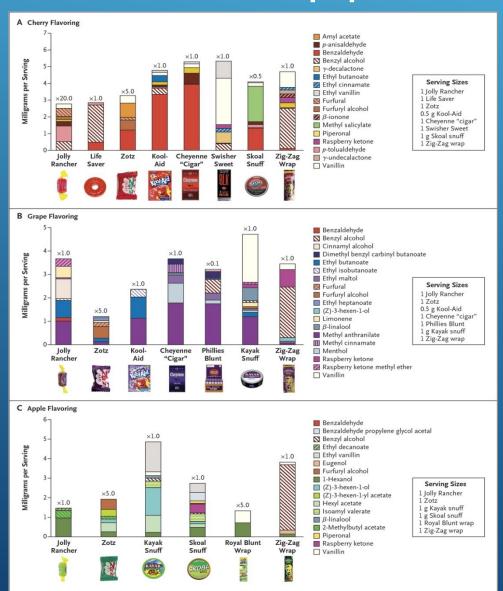
Are "starter" products that help new users establish daily habits and promote addition to tobacco

Target African American and LGBTQ communities

57% of smokers in the US age 12-17 smoke menthol cigarettes



Flavoring chemicals used in some tobacco products the same as those in popular candy



CHEAPER AND SMALLER PACK SIZE





Cigarette vs Little Cigar





More Nicotine = More Smoking & Vaping

New Online

Views **7,055** | Citations **0** | Altmetric **752**

Original Investigation

ONLINE FIRST

October 23, 2017

Associations of Electronic Cigarette Nicotine Concentration With Subsequent Cigarette Smoking and Vaping Levels in Adolescents

Nicholas I. Goldenson, BA¹; Adam M. Leventhal, PhD^{1,2}; Matthew D. Stone, BA¹; et al

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Why are we concerned about flavorings?



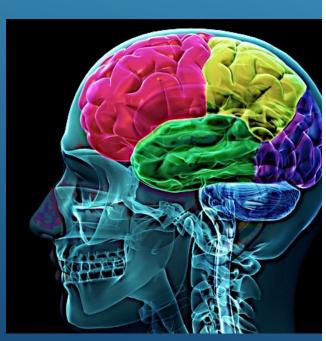


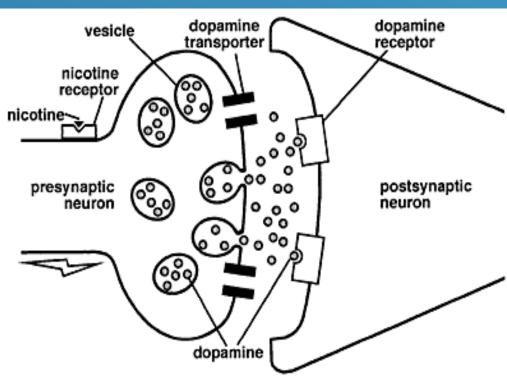


Flavorings = Chemicals

- Ethylpyrazine
- Dimethylpyrazine
- Trimethylpyrazine
- Tetramethylpyrazine
- Coumarin
- Acetylpyrazine
- Piperonal
- Damascenone
- Eleutheroside
- Rhodinol
- Trimethylcyclohex-2butene-4-one
- Beta-Ionone

THE BRAIN ON NICOTINE



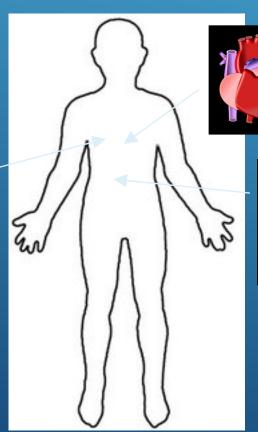




THE BODY ON NICOTINE



-troublebreathing-damage tolungs



Heart beats faster -activates "flight or flight" response



Increased acid reflux



Diacetyl and Popcorn Lung

Approved food flavoring

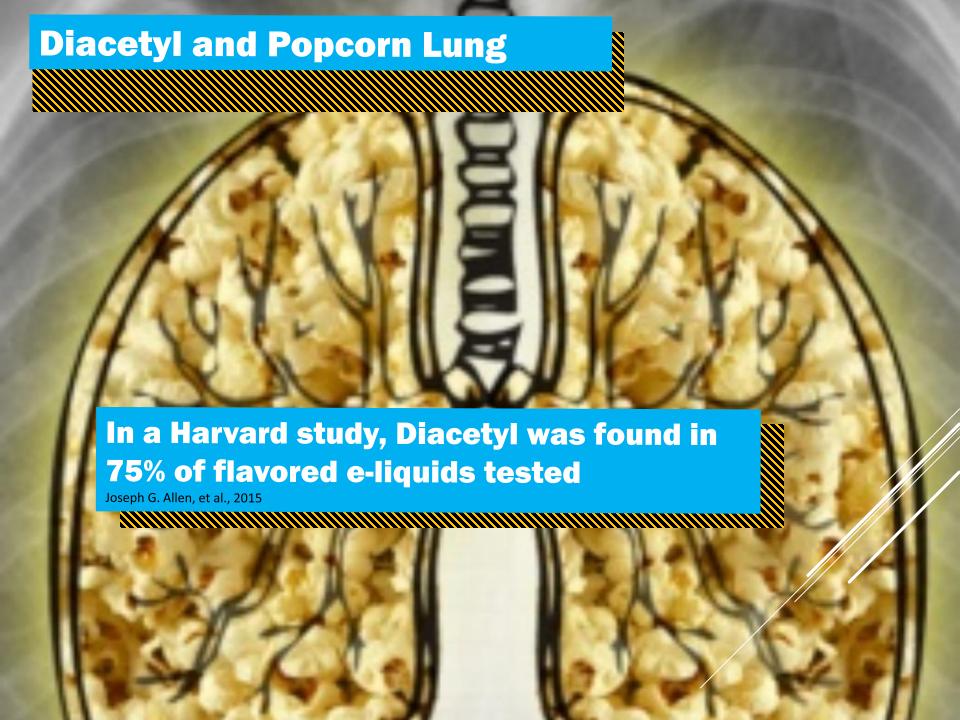
- **Popcorn butter** flavoring
- **Buttery taste in** chardonnay

Inhalation of diacetyl associated with popcorn lung (irreversible damage to lungs)









80% of U.S. middle and high school students who have ever used use tobacco started with a flavored product



82% of current e-cigarette users have used a flavored e-cigarette





74% of current cigar users have used a flavored cigar

79% of current hookah users have used a flavored hookah

How can kids be protected from flavored tobacco?



Tobacco retail licensing can prohibit the sale of flavored tobacco

Restrict sales near youth sensitive areas such as schools and parks



Establish minimum cost and pack sizes for tobacco products



Questions?

YOUTH ACCESS TO TOBACCO CONTROL TEAM

FOR MORE INFORMATION OR SIGN UP TO VOLUNTEER PLEASE CONTACT:

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