

## THE RUNDOWN

Flavored e-liquids have been effective in luring kids to vaping. In fact, high school usage jumped nearly 80% in a single year. The threat to kids' health got the attention of the U.S. Surgeon General, who declared vaping a youth epidemic. Now the threat is even worse. Lung illness has caused a growing number of people to seek emergency medical care, including life support.

How did we get here?

The flavors make it easy to hit.
The devices make it easy to hide.
The nicotine makes it hard to quit.

Use this guide to help navigate the vaping health crisis, and keep kids healthy.

#### **CLICK TO JUMP**

HEALTH OUTBREAK
HOW TO TALK TO KIDS ABOUT VAPING
WHAT KIDS SAY
KNOW THE SIGNS
WHAT IF YOUR TEEN IS ADDICTED?
HOW TO GET SCHOOLS ON BOARD
TEN FOR TEENS
ACTIVITIES WITH TEENS
POISON LOOKS LIKE THIS
ADDITIONAL RESOURCES
\* SOURCES

# HEALTH OUTBREAK

Vaping-related lung illness symptoms:

COUGHING CHEST PAIN

SHORTNESS OF BREATH

**NAUSEA** 

**VOMITING** 

**DIARRHEA** 

**ABDOMINAL PAIN** 

**FATIGUE** 

**FEVER** 

**WEIGHT LOSS** 

A growing number of people across the US have been hospitalized with sudden lung illness after vaping.

Chemicals in vape devices include nicotine, THC, and CBD. Many people report vaping a combination of nicotine and cannabis. In many cases, patients have required respirators to keep them alive.

Sadly, for some, the lung illness has been fatal.

This crisis is especially concerning for parents. According to national usage rates, teens are nearly 7x more likely to vape nicotine than adults. Why? Blame flavors. Mango, OG Crush, Candy Land, and over 15,000 others have attracted kids. In California, almost 90% of the kids who vape use flavors.

In the face of this youth epidemic, and more recently, this public health outbreak, let's remember that tobacco companies lied to the American public for decades about their products' life-threatening harms. Our hope is that Californians get health information from health agencies, not from industry spokespeople, or industry-funded research.

For more information —

**CDPH Health Advisory** 

Statement from the CDC

Director, Robet R. Redfield, M.D.

and FDA commissioner, Ned

Sharpless

**CDC Health Advisory** 

**CDC Investigation Notice** 

CDPH Tobacco Free California
Website

**FDA** 

The California Smokers' Helpline offers vaping cessation services including telephone counseling, text messaging, web chat, and a mobile app to help all tobacco users quit. For more information and resources for youth, young adults and parents, call 1-844-8-NO-VAPE or visit their **website**.

If you suspect your child is vaping, visit **FlavorsHookKids.org** for more information on the health effects and actions you can take.

For help on how to quit vaping marijuana, consult a doctor or contact the Substance Abuse and Mental Health Services
Administration helpline at 1-800-662-4357.

For additional information, please review the CDC's recommendations about the vaping-related lung injuries.

# HOW TO TALK TO KIDS ABOUT VAPING

#### LISTEN

Whether or not your kids or students have tried vaping, they'll benefit from a good talk. And a good talk starts with listening. Let the kids tell you about their world. These starter questions are a simple way in:

Do you have friends who vape?
Are you curious about it?
Have you been offered?
Have you tried it?
If so, what made you say yes?
If not, what made you say no?

Before you tell kids what you think, find out from them what it's like to be a kid in a culture where underage vaping surrounds them. A conversation will work harder than a lecture.

#### MANY TALKS VS ONE BIG ONE

Have an ongoing dialog rather than a single talk. The temptation to vape is not a one-time occurrence, so the conversation shouldn't be either. Help kids understand that as they age through middle and high school, they'll face new challenges, and through it all, you'll be there to talk through smart, healthy life choices.

#### TALK SCIENCE

Mostly what kids (and adults) know about nicotine is that it's addictive. But addiction is only the beginning. Kids should know that nicotine also alters their brains in the area responsible for attention and learning, making it harder for them to carry out tasks and stay focused on their work. It makes it easier for them to get addicted to other drugs down the road. And, as if teen years weren't hard enough, nicotine can also increase anxiety, mood swings, and irritability.

#### BLAME FLAVORS

How has vaping grown so fast?
Blame flavors. In California, almost 90% of all high school students who vape report using flavors. And flavors have been found to lower teens' perception of harm. Help your kids understand there's nicotine, aerosol, and toxic chemicals in these fun sounding flavors. And the nicotine content on the package is not necessarily accurate. The flavored tobacco industry is still mostly unregulated, so there's no way to be sure their claims are true.

### **WHAT KIDS SAY**

Here's how to respond to things kids might say.

### KID:

Vaping is a safe alternative to smoking.

### **ADULT:**

There's actually nothing safe about vaping. It's not water vapor like some people think. The vapor is actually aerosol found to contain metals, particulates, and toxic chemicals. And the nicotine content of that aerosol can be very high.

### KID:

Nicotine's just a little buzz, that's all.

### **ADULT:**

Nicotine does release dopamine in the brain, which might make you feel good temporarily, but don't be tricked. Nicotine is a neurotoxin, meaning, it's a poison affecting the brain, especially developing brains of kids.

### KID:

I thought I was vaping just flavoring.

### **ADULT:**

You're not alone. It's not obvious to kids, or even grownups, that something so sweet and fruity is actually an addictive drug that can have long-term effects on kids' developing brains.

### KID:

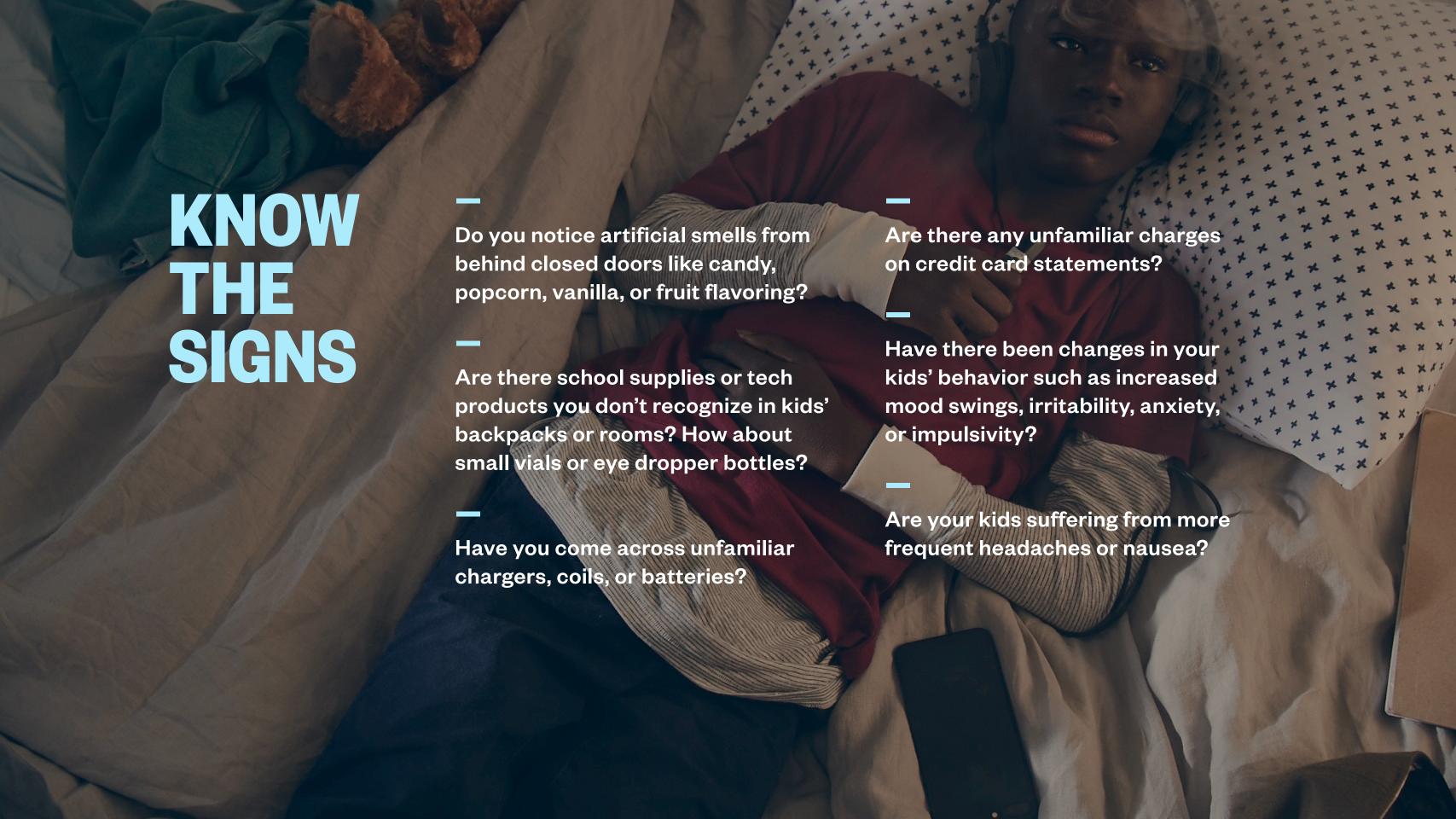
You used to smoke.

### **ADULT:**

Yeah, and I wish I'd had conversations like these before I got hooked. Most tobacco users have tried to quit at least once.

Some have tried many times.

Breaking free of nicotine can be a long, frustrating road. I don't wish that on anyone, least of all you.



# WHAT IF YOUR TEEN IS ADDICTED?

# CALL THE HELPLINE

The California Smokers' Helpline provides professional counseling in six languages. Counselors are trained to talk to either kids or parents about youth tobacco use, and effective strategies for quitting. Call to better prepare yourself to help your teen quit. And have your kids call, too. They can talk to a counselor on their own for personalized attention. Help is available by phone at 1-844-8-NO-VAPE; or by live chat at nobutts.org

## DOWNLOAD THE APP

Encourage kids to download the first of its kind e-cig quitting app, thisisquitting.com. It puts teens in a community of their peers who are also trying to quit. Text messages tailored to age groups are sent to their phones at crucial moments. Parents and teachers can also use the app to see what kids are seeing and better support them offline. Visit thisisquitting.com for more.

## IDENTIFY SIDE EFFECTS

Help motivate kids by pointing out the negatives of nicotine use. They may not realize that emotional challenges and difficulty with attention and learning could be nicotine-related. Let kids know nicotine can increase the following:

Irritability
Mood swings
Anxiety
Impulsivity
Learning difficulties

# ENLIST THE PEDIATRICIAN

Ask your healthcare provider to talk to your teen. Hearing about the harm of e-cigs from a health professional can make an impact.

#### **BE SUPPORTIVE**

Quitting is hard. And as many nicotine addicts and recovering addicts will tell you, it usually takes more than one try. Stay positive with your teens. Reward the incremental progress and accept the setbacks as part of the process.

## HOW TO GET SCHOOLS ON BOARD

## CONTACT THE ADMINISTRATION

Email or visit schools and ask about their tobacco-free policy and their approach to teen vaping. How to start the conversation? Here's a list of questions from tobacco use prevention experts in the California Department of Education:

Has the school adopted a tobacco-free policy? Most schools have them, but not all. Among other things, a tobacco-free policy defines the meaning of "tobacco product" to include e-cigarettes, and lays out enforcement and other implementation procedures.

What is your school doing to help educate students and inform parents about these products? For example, is the school hosting educational sessions or activities on e-cigarettes/vaping for parents and students?

Do teachers and school staff know what the different ecigarette/vaping products look like? These devices are changing all the time!

Do school nurses and school counselors know where to refer teens for quitting help? Share information about the Helpline 1-844-8-NO-VAPE and the quitting app for teens at thisisquitting.com.

Ask your Parent Teacher Student Association (PTSA) to address the teen vaping epidemic in their communications to the school community.

Have schools share

FlavorsHookKids.org and other
resources on their Facebook
pages, websites or email
announcements to parents.

# SHARE WIDELY

Pass along this guide to other parents wanting to protect kids from this widespread youth epidemic. Print out this PDF and circulate, send the PDF in an email, or link people to FlavorsHookKids.org

### ATTEND MEETINGS

Get a group together and attend PTSA or school board meetings to voice your concerns. Have the following ten facts in your back pocket.

# TEN FOR TEENS

Going to meetings? Writing to the school board? Reference these ten facts to ground your audience in the reality of teen vaping, and to make perfectly clear what's at stake. U.S. Surgeon General named vaping a youth epidemic.

E-cig usage by high school students rose 78% between 2017 and 2018. That's close to double the kids exposed to nicotine in a single year.

Nicotine is one of the most toxic of all poisons.

Nicotine rewires teens' developing brains.

Nicotine can escalate anxiety, mood swings and learning difficulties. Teens are at a higher risk of addiction than adults.

Nicotine in adolescence makes it easier to develop addiction to other drugs.

None of Juul's pods are without nicotine, but 5 out of 8 young Juulers were not aware of that.

A single Juul pod can contain the nicotine of a pack of cigarettes and may deliver nicotine to the brain 2.7 times faster than other e-cigs.

Changes to the brain from nicotine can be permanent.

# ACTIVITIES WITH TEENS

#### GOOGLE IT

Naturally, we want to help teens find their own motivation for giving up vaping, or to not start in the first place. Lucky for us, teens are natural skeptics – and digital natives. So googling Juul's early marketing efforts, paired with Juul's claim they never meant to market kids, might help your teens see themselves as targets, and refuse to play along.

Before you sit down with your teen to google Juul's initial marketing, take a second and familiarize yourself. Knowing the facts ahead of time will help you lead the exercise. The good news is that Stanford researchers did all the digging and saved you the time.

Download the PDF and see what Juul was up to from the very beginning.

What to point out to kids?
Youthful models
Their body language
Their outfits
Sex appeal
The styled out backgrounds
Hashtags all over social media
Juul's presence at music fests
Juul's free sampling events

Ask teens to decide for themselves who they think Juul was trying to reach. Can they sniff out the hypocrisy? Do the same for Suorin, Bo, Phix, Kandypens, or any tobacco company your teen wants to stress test.

#### HISTORY REPEATING

Did you know that tobacco companies have long been regulated by the federal government for targeting kids? In the 70s, cigarette commercials were taken off the air. In the 90s, the cartoon "Joe Camel" was abolished. And in 2009, flavored cigarettes (except menthol) were federally banned. Visit the Smithsonian site to give teens a glimpse of the past and to show them how the e-cig industry is using Big Tobacco's playbook.

# BIG KIDS UNITE

Maybe teens want a shot at impacting the epidemic themselves. The need to address vaping at the middle school level is getting more dire. Who better to inspire middle schoolers than high schoolers? Connect with California's Friday Night Live for inspiration on how teens can tackle this health topic. Or have the teens reach out to their school administrators or counselors for other ways to get involved. It could be a science or health project, or could be applied to community service hours. Ask your teens if they'd be up for putting those leadership skills to work for California's greater good.

# POISON LOOKS LIKE THIS

A visual guide for some modern vaping devices.



# ADDITIONAL RESOURCES

# Talk with Your Teen About E-cigarettes: A Tip Sheet for Parents

Source: Office of the U.S Surgeon General and the U.S. Centers for Disease Control and Prevention, Office on Smoking and Health.

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

Source: Partnership for Drug-Free Kids

#### \* SOURCES

Cullen KA, Ambrose BK, Gentzke AS, Apelberg BJ, Jamal A, King BA. Notes from the Field: Use of Electronic Cigarettes and Any Tobacco Product Among Middle and High School Students – United States, 2011–2018. MMWR Morb Mortal Wkly Rep. 2018;67:1276– 1277. DOI: http://dx.doi.org/10.15585/mmwr.mm6745a5

Campaign for Tobacco-Free Kids. Designed for Addiction: How the Tobacco Industry Has Made Cigarettes More Addictive, More Attractive to Kids and Even More Deadly. Washington, DC: Campaign for Tobacco-Free Kids. June 23, 2014.

Office of the U.S. Surgeon General. Know the Risks. ecigarettes.surgeongeneral.gov. <a href="https://e-cigarettes.surgeongeneral.gov/knowtherisks.html">https://e-cigarettes.surgeongeneral.gov/knowtherisks.html</a>. 2019. Accessed October 1, 2019.

Zhao-Shea R, DeGroot SR, Liu L, et al. Increased CRF signalling in a ventral tegmental area-interpeduncular nucleus-medial habenula circuit induces anxiety during nicotine withdrawal [published correction appears in Nat Commun. 2015;6:7625]. Nat Commun. 2015;6:6770. Published 2015 Apr 21. doi:10.1038/ncomms7770

Centers for Disease Control and Prevention. Nicotine: Systemic agent. cdc.gov. Published 2011. Accessed February 6, 2019.

Hughes JR. Effects of abstinence from tobacco: Valid symptoms and time course. Nicotine Tob Res. 2007;9(3):315-327. doi:10.1080/14622200701188919

Froeliger B, Modlin LA, Kozink RV, et al. Frontoparietal attentional network activation differs between smokers and nonsmokers during affective cognition. Psychiatry Res. 2012;211(1):57–63. doi:10.1016/j.pscychresns.2012.05.002

Goriounova NA, Mansvelder HD. Short- and long-term consequences of nicotine exposure during adolescence for prefrontal cortex neuronal network function. *Cold Spring Harb Perspect Med.* 2012;2(12):a012120. Published 2012 Dec 1. doi:10.1101/cshperspect.a012120

American Chemical Society. Tobacco and its evil cousin nicotine are good as a pesticide. <a href="https://www.acs.org/content/acs/en/pressroom/presspacs/2010/acs-presspac-october-27-2010/tobacco-and-its-evil-cousin-nicotine-are-good-as-a-pesticide.html">https://www.acs.org/content/acs/en/pressroom/presspacs/2010/acs-presspac-october-27-2010/tobacco-and-its-evil-cousin-nicotine-are-good-as-a-pesticide.html</a>. Published 2010. Accessed March 4, 2015.

National Institute on Drug Abuse; National Institutes of Health; U.S. Department of Health and Human Services. *Mind Matters: The Body's Response to Nicotine*. Published July 2018.

Yuan M, Cross SJ, Loughlin SE, Leslie FM. Nicotine and the adolescent brain. *J Physiol*. 2015;593(16):3397–3412. doi:10.1113/JP270492

California Department of Public Health. Vaping Related Lung Illness: A Summary of the Public Health Risks and Recommendations for the Public. cdph.ca.gov. <a href="https://www.cdph.ca.gov/Programs/CCDPHP/Pages/Vaping-Health-Advisory.aspx">https://www.cdph.ca.gov/Programs/CCDPHP/Pages/Vaping-Health-Advisory.aspx</a>. Published September 24, 2019. Accessed October 1, 2019.

Centers for Disease Control and Prevention. Outbreak of Lung Injury Associated with E Cigarette Use, or Vaping. cdc.gov. <a href="www.cdc.gov/tobacco/basic\_information/e-cigarettes/severe-lung-disease.html">www.cdc.gov/tobacco/basic\_information/e-cigarettes/severe-lung-disease.html</a>. Reviewed September 19, 2019. Accessed September 24, 2019.

Gentzke AS, Creamer M, Cullen KA, et al. Vital Signs: Tobacco Product Use Among Middle and High School Students — United States, 2011–2018. MMWR Morb Mortal Wkly Rep. 2019;68:157–164. DOI: http://dx.doi.org/10.15585/mmwr.mm6806e1

Dai H, Leventhal AM. Prevalence of e-Cigarette Use Among Adults in the United States, 2014-2018. JAMA. 2019. doi: 10.1001/jama.2019.15331.

Hsu G., Sun J. Y., & Zhu S. H. (2018). Evolution of Electronic Cigarette Brands From 2013-2014 to 2016-2017: Analysis of Brand Websites. Journal of Medical Internet Research, 20(3):e80, doi: 10.2196/jmir. 8550.

Vuong TD, Zhang X, Roeseler A. California Tobacco Facts and Figures 2019. Sacramento, CA: California Department of Public Health; May 2019.

Becker B, Hurlemann R. Unraveling the Role of the Amygdala in Nicotine Addiction. *Neuropathol Drug Addict Subst Misuse*. 2016;1(March 2016):272-281. doi:10.1016/B978-0-12-800213-1.00026-2

Willett JG, Bennett M, Hair EC, et al. Recognition, use and perceptions of JUUL among youth and young adults. *Tob Control.* 2019;28(1):115-116. doi: 10.1136/tobaccocontrol-2018-054273

Truth Initiative. Is your kid using JUUL? Here's how you can help them quit. <u>truthinitiative.org</u>. Published February 21, 2019. Accessed April 4, 2019

International Programme on Chemical Safety, World Health Organization. Nicotine. <u>inchem.org</u>. March, 1991. Accessed April 5, 2019.

Pepper JK, Ribisl KM, Brewer NT. Adolescents' interest in trying flavoured e-cigarettes. Tob Control. 2016;25(Suppl 2):ii62-ii66. doi:10.1136/tobaccocontrol-2016-053174

Raymond BH, Collette-Merrill K, Harrison RG, Jarvis S, Rasmussen RJ. The Nicotine Content of a Sample of E-cigarette Liquid Manufactured in the United States. *J Addict Med.* 2018;12(2):127-131. doi:10.1097/ADM.000000000000376

Stanford University. Tobacco Prevention Toolkit, Unit 6: Pod-based systems: Reinventing the cigarette [PowerPoint presentation]. Updated March 19, 2019. Accessed April 16, 2019.

Benowitz NL, Jacob P 3rd. Daily intake of nicotine during cigarette smoking. *Clin Pharmacol Ther.* 1984;35(4):499-504. doi:10.1038/clpt.1984.67

Etter JF, Ussher M, Hughes JR. A Test of Proposed New Tobacco Withdrawal Symptoms. *Addiction*. 2012;108(1): 50-59. doi:10.1111/j.1360-0443.2012.03981.x

Williams M, Villarreal A, Bozhilov K, Lin S, Talbot P. Metal and Silicate Particles Including Nanoparticles Are Present in Electronic Cigarette Cartomizer Fluid and Aerosol. *PLoS One*. 2013;8(3). doi:10.1371/journal.pone.0057987

Jackler RK, Ramamurthi D. Nicotine arms race: JUUL and the high-nicotine product market. *Tob Control.* February 2019:tobaccocontrol-2018-054796. doi:10.1136/tobaccocontrol-2018-054796

Office of the U.S. Surgeon General. Know the Risks. e-cigarettes.surgeongeneral.gov. Published 2019. Accessed March 11, 2019.

California Student Tobacco Survey 2017-2018. Sacramento, CA: California Department of Public Health. 2019.