

# Dangerous Drugs and Trending Options for Forsyth County Teens



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Department of School Safety  
Forsyth County School System  
Cumming, Georgia

*Todd Shirley*

Chief Operations Officer

770-888-3466 x1

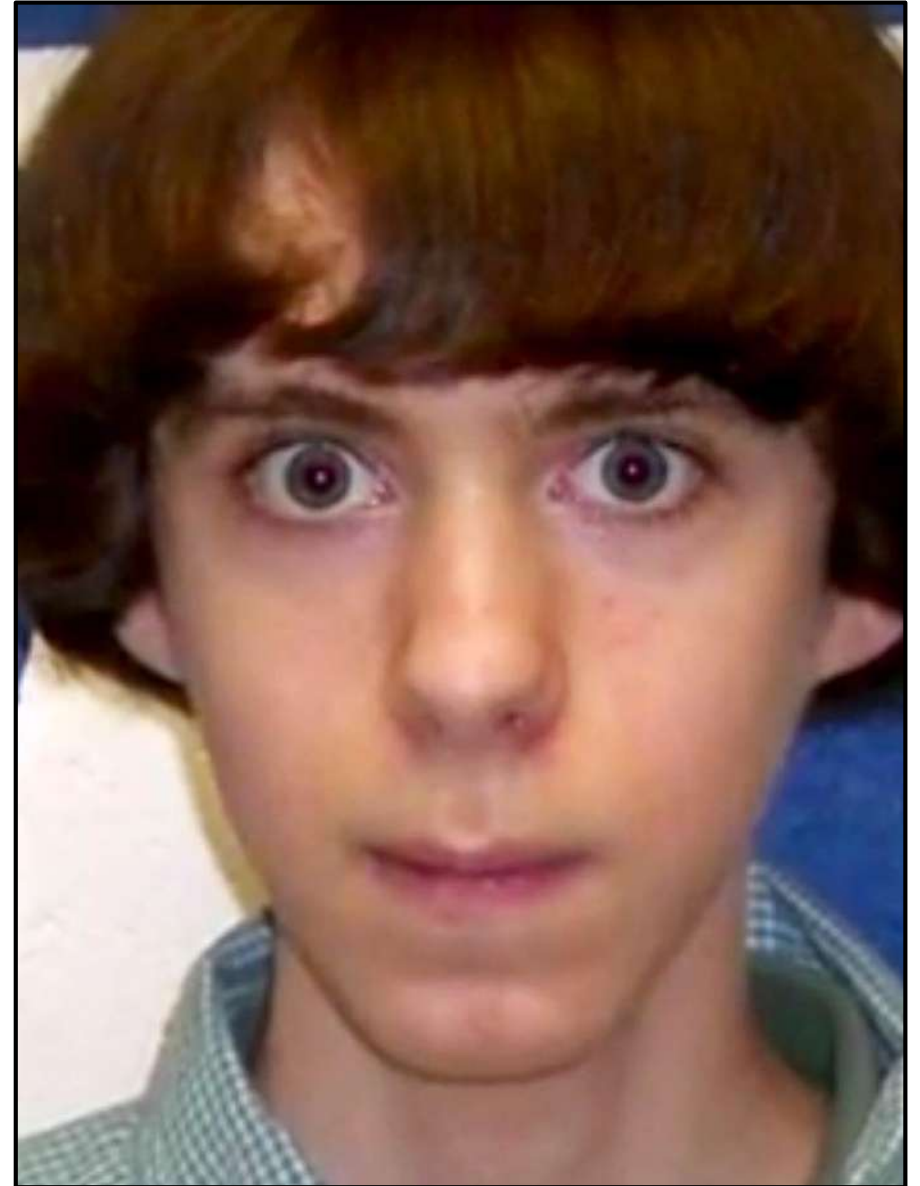


## Think about this.....

In 2012 – 36 die in school shootings (26 in one school alone)

Greater than 55 million students in public schools.

.00006% chance of being in this statistic



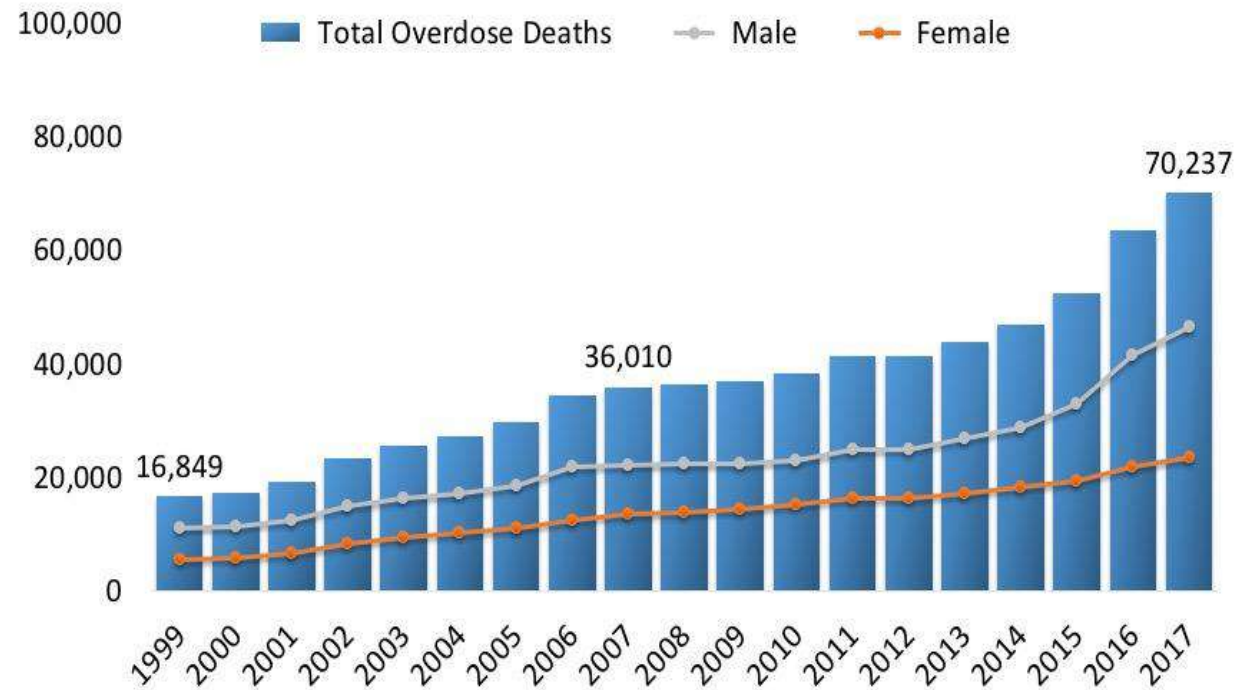
## National Drug Overdose Deaths— Number Among All Ages, by Gender, 1999-2017.

More than 70,200 Americans died from drug overdoses in 2017, including illicit drugs and prescription opioids—a 2-fold increase in a decade.

Drug overdose deaths rose from 16,849 in 1999 to 70,237 in 2017.

The bars are overlaid by lines showing the number of deaths by gender from 1999 to 2017 (Source: CDC WONDER).

### Figure 1. National Drug Overdose Deaths Number Among All Ages, by Gender, 1999-2017



Source: : Centers for Disease Control and Prevention, National Center for Health Statistics. Multiple Cause of Death 1999-2017 on CDC WONDER Online Database, released December, 2018

# What are Synthetic/Designer Drugs?

- Synthetic designer drugs that are intended to mimic THC, the main active ingredient of marijuana.
- **Not organic.** Synthetic drugs are chemical compounds created in a laboratory
- There are numerous different synthetic cannabinoids that may be sold as “legal” alternatives to marijuana that are gaining in popularity.
- Abused for their psychoactive properties



# What are Synthetic/Designer Drugs?

- Packaged without information as to their health and safety risks, often stating they are not for human consumption
- Frequently sold at small convenience stores, gas stations, and online, making them easily accessible to the public.
- Often marketed and sold under the guise of “herbal incense” or “potpourri.”
- “Spice,” “K2,” Blaze, RedX Dawn, Paradise, Demon, Black Magic, Spike, Mr. Nice Guy, Ninja, Zohai, Dream, Genie, Sence, Smoke, Skunk, Serenity, Yucatan, Fire, and Crazy Clown.



# Synthetic Lab



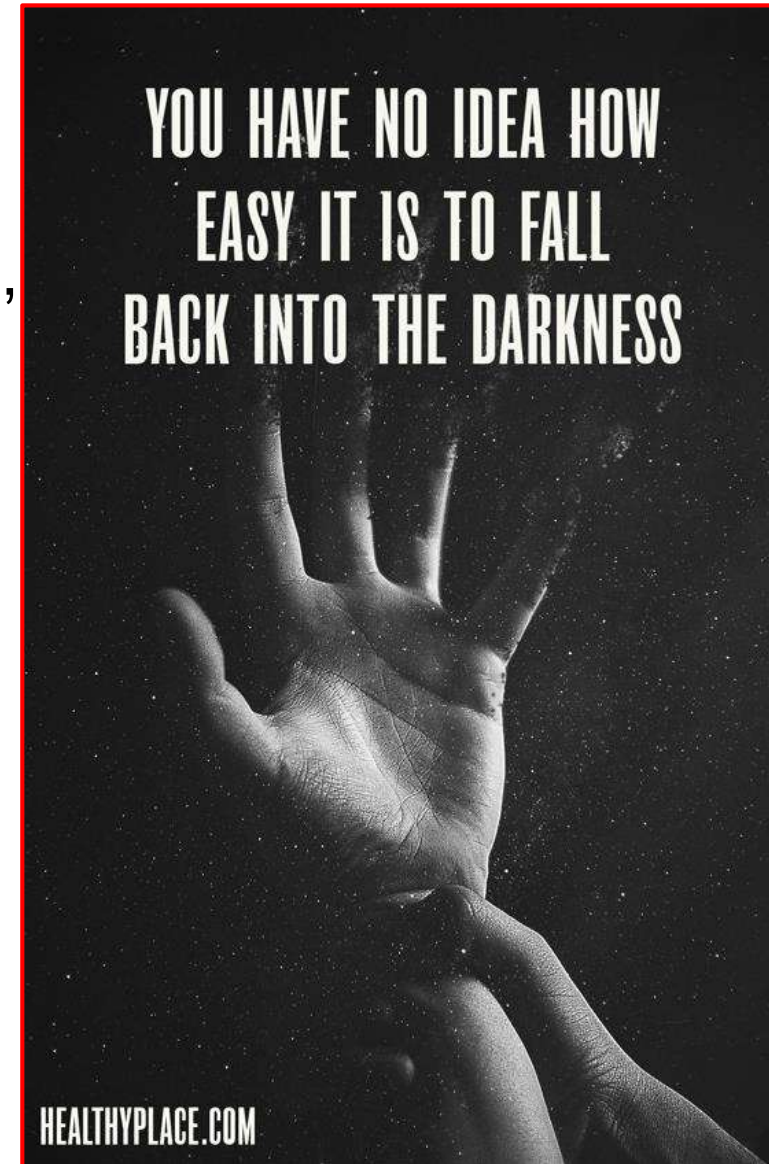
# Teen spent 10 days on a ventilator after his lungs failed. Doctors think vaping is to blame.

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## Headlines are clear.....

- Two deaths, 54 other cases of severe bleeding tied to fake ... - CNN.com
- Apr 2, 2018 - Dozens of people suffered severe bleeding, and two died, related to synthetic cannabinoids, according to Illinois health officials who are also ...
- Synthetic Cannabinoids Linked to Deaths in Illinois - Pharmacy Times
- Apr 10, 2018 - Three deaths in Illinois are being connected to the use of synthetic cannabinoids. The deaths are among 107 reported incidences of individuals
- The Spice of Death: The Science behind Tainted "Synthetic Marijuana ...





# Regulation

- In response to a fatal overdose of a young teen, Georgia lawmakers added (2012) the common chemicals used for synthetic marijuana to the Schedule I list of controlled substances in Georgia (Chase's Law)
  - Soon after, drug manufacturers found ways around the law by changing the chemical compounds in their designer drugs
- Forsyth County passed its own ordinance governing synthetic drugs making it unlawful for any person to use, sell, give, manufacture with intent to sell, possess, purchase, deliver, transport or distribute any unregulated marijuana substitutes within the limits of Forsyth County



## The NEW fad - VAPING

**Vaping** is the simple act of inhaling and exhaling **vapor** from an **electronic cigarette** or similar device, for example a vaporizer or **vape** pen. The actual device used for **vaping** is a small battery powered device that heats **e-liquid** into an inhalable **vapor**, similar to how steam is formed.





A man has told how he was engulfed in flames and left with third degree burns after his vape exploded in while he was driving. (SWNS)

# A look at cigarette substitutes: The JUUL

A new brand of electronic cigarette (e-cigarette) has become one of the most popular vaping devices, particularly among youth. JUUL® (pronounced jewel) looks like a USB drive, and is promoted as an alternative to combustible cigarettes and existing e-cigarettes or vaping devices.



- **The liquid in JUUL pods contain nicotine salts from tobacco leaves.** The nicotine salts are absorbed into the body at almost the same rate as nicotine from a combustible cigarette.
- **JUUL has more than twice the amount of nicotine concentrate as many other brands of e-cigarettes.** One cartridge, called a pod, has roughly the equivalent amount of nicotine as one pack of cigarettes.



# Juuling Is Growing, While Teen Use Is Under Investigation

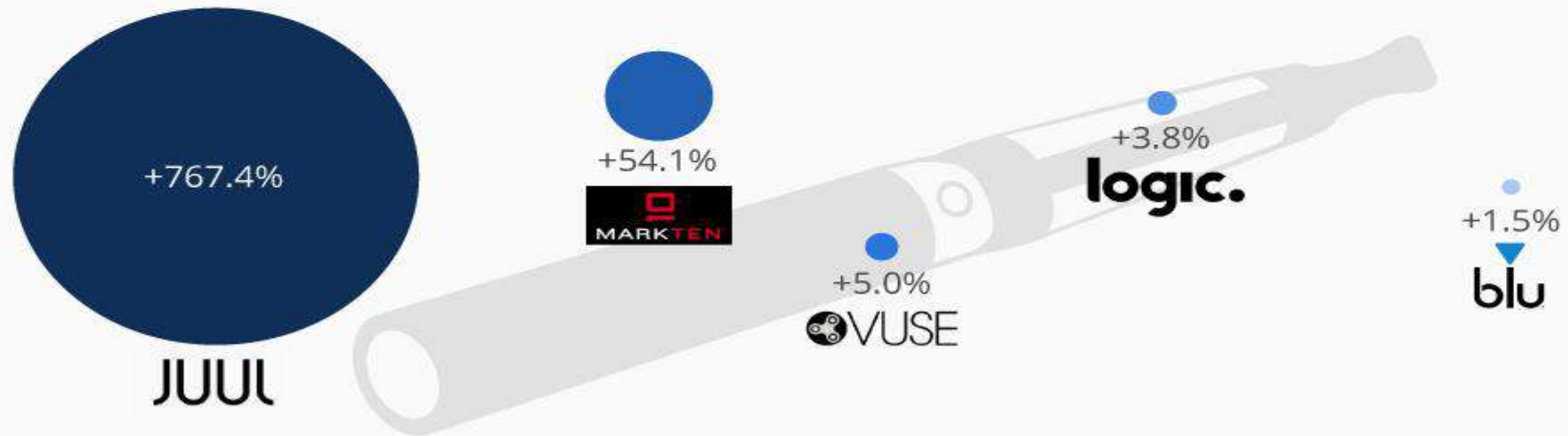
Share of teenagers that begin smoking cigarettes

E-Cig Users 30.7%

Non Users 8.1%



Percent change year over year for revenue for different e-cigarette brands, 2017



## Juuling Is Growing, While Teen Use Is Under Investigation

by [Sarah Feldman](#),

Aug 29, 2018

Juul, the [e-cigarette](#) company, is under investigation by the FDA for intentionally targeting underage teenagers when marketing its devices. The Attorney General of Massachusetts, Maura Healy, is also investigating how effective the company was at preventing underage users from accessing its devices.

As the chart below illustrates, Juul is coming off a stellar year especially when compared to its competitors. The e-cigarette firm has increased its revenue by over 700 hundred percent from last year. [Sales campaigns](#) for Juuls are popular with teenagers across the country, with the product turning into a verb: Juuling.

Teenagers who use e-cigarettes are at a higher risk of using cigarettes than those that never try e-cigarettes. There is mixed evidence as to whether e-cigarettes help people quit smoking all together, though this is Juul's stated purpose. A major public health problem rests at the heart of this investigation: can you create a product that helps addicted smokers switch, while not getting new people hooked?

The [study, published Tuesday](#), revealed previously unknown dangers in connection to the liquids used in Juul's e-cigarettes. Vanillin is banned from use in cigarettes, but it's used in e-cigarettes and has been connected to airway irritation when combined with vapor.

"We were surprised that levels in Juul vapor were already close to safety limits for workplaces where vanillin is used, such as in bakeries and the flavor chemical industry," co-author Sven-Eric Jordt from Duke University said in the release.



# Advertising and ease of use make the Juul the device of choice



## A look at cigarette substitutes: The *Pathfinder Vape*



<https://www.youtube.com/watch?v=9KcsVOJ7ono>



# Myths



Many teens have **dangerous misperceptions** that lead them to believe that vaping is harmless.

**Common myths** believed about vaping, along with the facts.

**"It's just flavoring."**

Vapes get their flavors from chemicals. While these flavorings are safe to eat in food, they're not safe to inhale. Inhaling flavor chemicals can harm your lungs.<sup>11</sup>

Want an example?

Some buttery-flavored vapes like caramel contain diacetyl and acetoin. Inhaling diacetyl has been linked to popcorn lung, a lung disease that doesn't have a cure.<sup>11</sup>

**"It's just water vapor."**

**But it's not.**

Vaping can expose the user's lungs to harmful chemicals like formaldehyde, diacetyl and acrolein, as well as toxic metal particles like nickel, tin and lead.<sup>4,8-10,11-13</sup>

**"I don't have an addictive personality — I won't get hooked on vapes."**

Vaping delivers nicotine to the brain in as little as 10 seconds.<sup>14,15</sup>

A teen's brain is still developing, making it more vulnerable to nicotine addiction.<sup>14</sup>

Some vapes that claim they are nicotine-free are not.<sup>8,17-22</sup>

**"My vape says it's nicotine-free. There's no way I'll become addicted."**

**"Nicotine isn't that bad for me."**

Nicotine exposure during the teen years can disrupt normal brain development. It can have long-lasting effects, like increased impulsivity and mood disorders.<sup>23-25</sup>

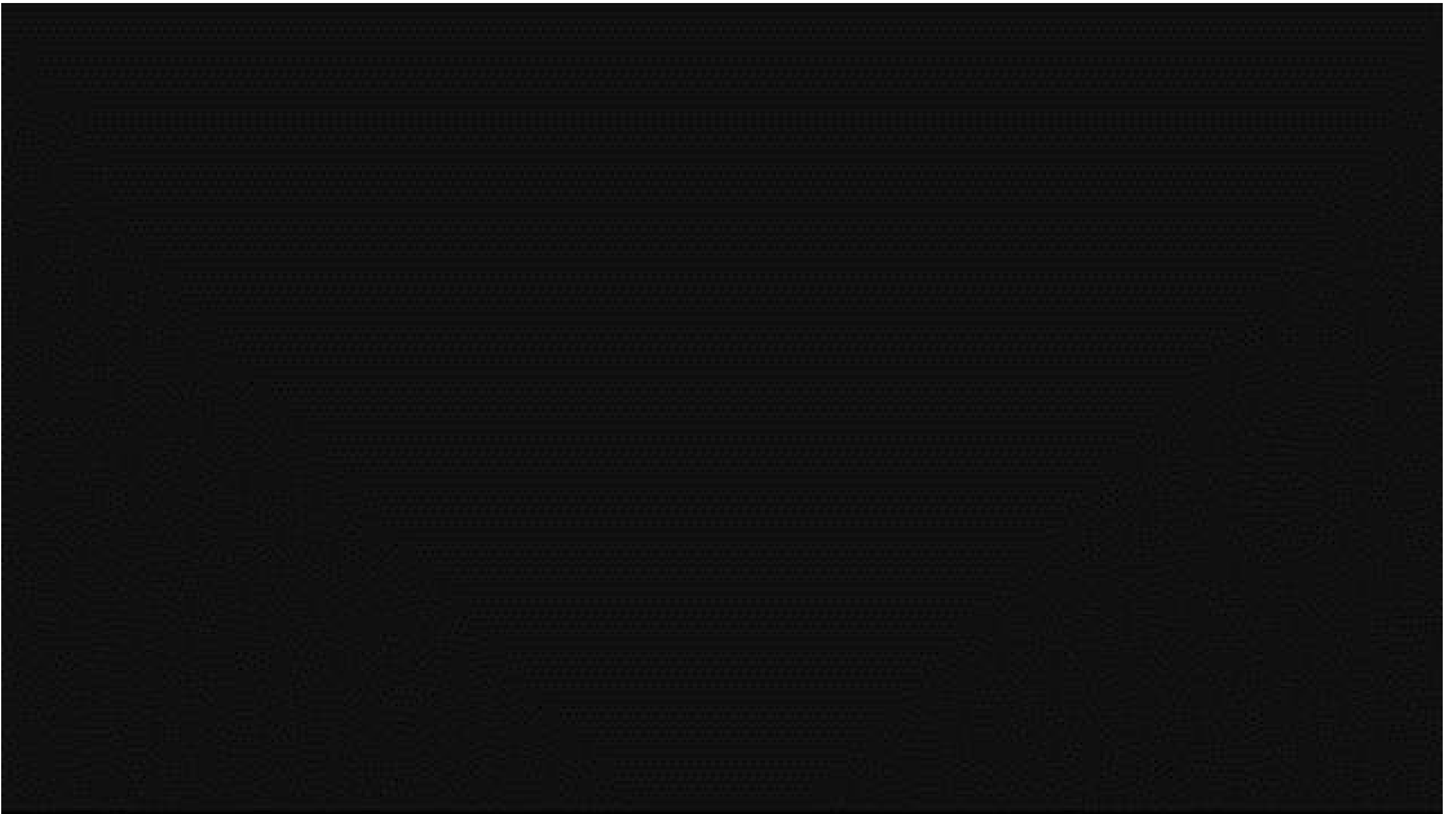
**"Just because I vape doesn't mean I'm going to smoke cigarettes."**

Research shows teens who vape are more likely to try smoking cigarettes.<sup>24</sup>



Ergonomic design, fit for your hand, soft handling.







**These Photos are of a 12 year old male patient that has been vaping 2 vials a day! 2 Vials a day is equal to 2 packs of cigarettes!!**

**Set aside a minute this weekend to show your children these photos, this mom had no idea, please advise them of the dangers!**

<https://www.yalemedicine.org/stories/teen-vaping/>

# A Natural Option??



## Despite Government Crackdown, Kratom Scientists Awarded \$3.5M for Research

They're optimistic human trials can begin in five years.



# INVERSE

by Peter Hess on December 14, 2018

Filed Under [Chemistry](#), [Drugs](#), [Experiments](#), [Health & Medicine](#)

**T**he controversial plant kratom, a drug with opioid-like properties, is directly in the crosshairs of American federal regulators. Because it has some similarities to problematic opioids like oxycodone and fentanyl, multiple government agencies have attempted, with some success, to severely curtail its availability. That's why it was so unexpected when on Monday the University of Florida

# Kratom

The tree known locally as [Kratom](#) in Thailand is known as *Mitragyna speciosa* to biologists. *Mitragyna speciosa* is native to Southeast Asia and the archipelagos of Melanesia where its leaves have been used medicinally by indigenous ethnic groups for centuries.



# Kratom in Vapes

FDA---- “Patients addicted to opioids are using kratom without dependable instructions for use and more importantly, without consultation with a licensed health care provider about the product’s dangers, potential side effects or interactions with other drugs.”

The FDA noted that there have been reports of kratom being laced with other opioids like hydrocodone.





## GA House Bill 551

- Minimum purchase age of 18 years
- No possession of kratom by persons under age 18 years
- These are misdemeanor offenses (selling and possession)





# Old School



## Tough to catch in schools

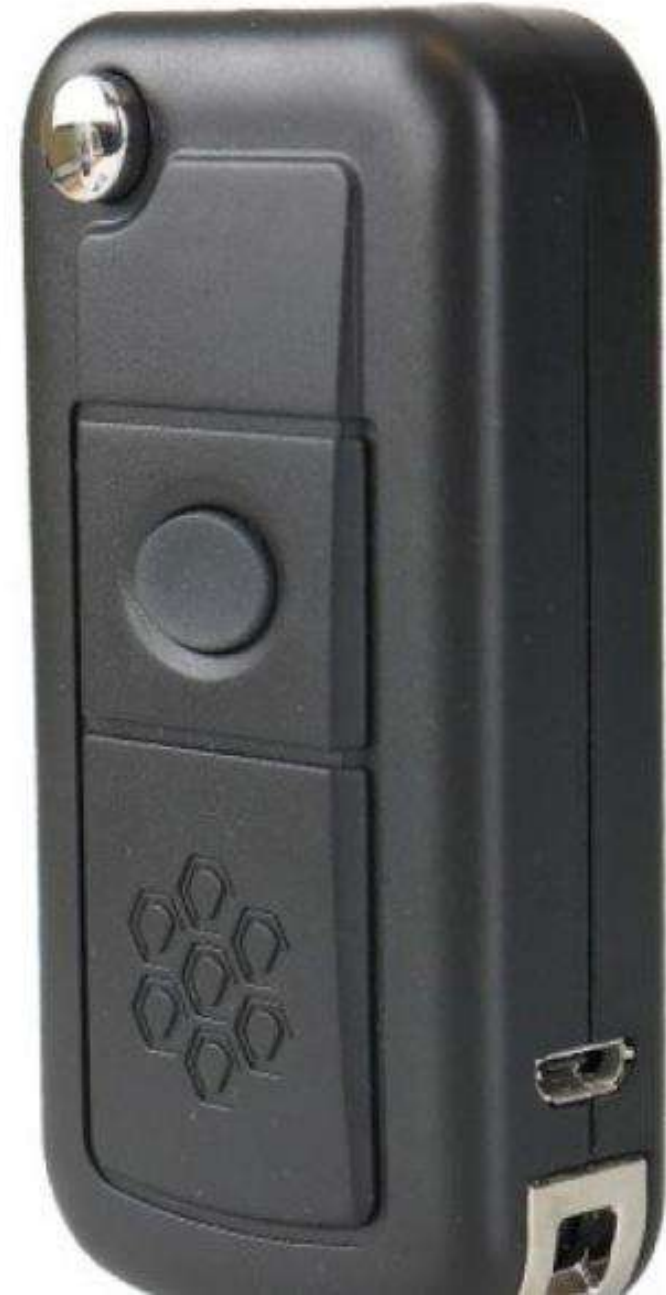


# Tough to catch in schools





# STEALTHY "KEY FOB" VAPE



# PEN PIPE



Pens. They're a dime a dozen. Actually if you can get them for that price it's honestly an excellent deal and you should probably pick some up. But anyway, you get my drift: no one gives a fuck about pens. Which is exactly what makes this **stealthy pipe** so amazing. It's disguised AS A PEN! **No way**, really?!? **Yes**, I'm so serious!

# PUFFIT "INHALER" VAPORIZER



Oh snap! Is what your friends will say when they see your new [vaporizer that looks like an inhaler](#) what!?!?! Yeah, you can believe your eyes. This innocuous looking inhaler is indeed a rechargeable, portable, bad ass vaporizer with an advanced temperature control system, USB charger, carrying case and a bunch of accessories.

And talk about stealth! Cause sometimes you gotta be sneaky. And what's less conspicuous than an asthmatic? They're practically invisible in our society. And rightly so. Hey asshole, if you wanna breath, move to Europe! Sorry, I promised myself I wouldn't use this website as my anti-asthma bully pulpit and THERE I go again.

Anyway, check out the super cool, super incognito [PUFFIT Vaporizer](#)...it looks like an inhaler!!!

# SECRET PEN PIPE





# A Vape Watch!? What We Know About Uwell's Amulet Pod Vape

 Adam A.  2 months ago  2 comments  2 min read

**UWELL®**







# 2018 NATIONAL YOUTH TOBACCO SURVEY FINDS CAUSE FOR CONCERN

Current e-cigarette use among middle and high school students **increased alarmingly** between 2017 and 2018.

Here is a breakdown of the recent findings:

**SURGE IN YOUTH CURRENT E-CIGARETTE USE — 1.5 Million More Students Used E-Cigarettes in 2018 vs 2017**

# Epidemic Progression of MS and HS use of Vape Devices

**78%** Increase  
Among High  
School Students

**20.8%**

**11.7%**

2017

2018

**48%** Increase  
Among Middle  
School Students

**4.9%**

**3.3%**

2017

2018



# Unexpected Results



**Texas man died after vape pen explosion severed major artery, caused 'penetrating trauma,' medical examiner says**



# Heroin is here!

4 men guilty of  
using social media  
to sell heroin in  
Atlanta



Local | Jan 19, 2017

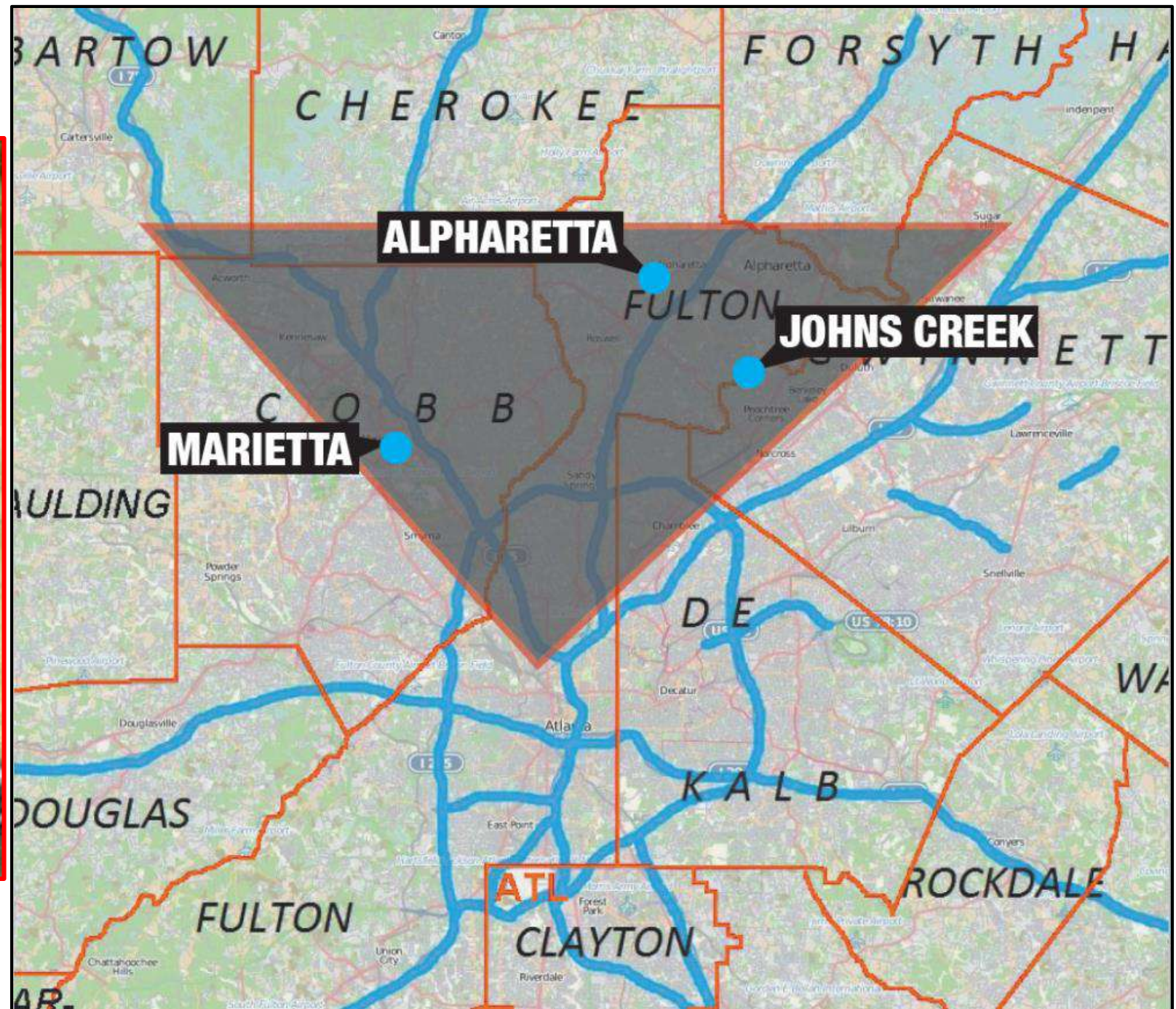
By Steve Burns, The Atlanta Journal-Constitution

# Heroin Triangle

THERE IS NOTHING  
WORSE THAN WATCHING  
HEROIN CHANGE  
SOMEONE YOU LOVE,  
INTO SOMEONE YOU DONT  
EVEN RECOGNIZE.



Heroin addiction support



# Heroin use is part of a larger substance abuse problem.

People who are addicted to...



ALCOHOL

are

**2x**



MARIJUANA

are

**3x**



COCAINE

are

**15x**



Rx OPIOID PAINKILLERS

are

**40x**

...more likely to be addicted to heroin.

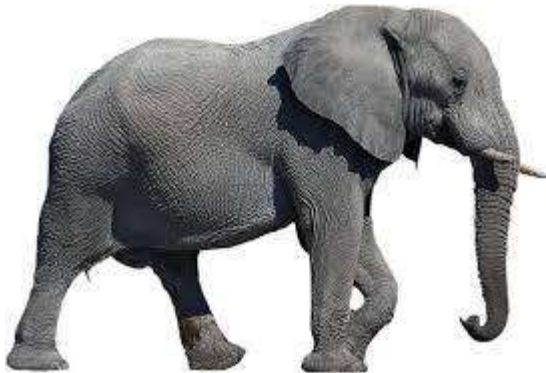
SOURCE: National Survey on Drug Use and Health (NSDUH), 2011-2013.



## Why it kills

Carfentanil is an analogue of the synthetic opioid *fentanyl*.

- Its potency is approximately 10,000 times stronger than morphine and 100 times stronger than fentanyl.
- It is a general anesthetic designed for large animals.



# THIS MUCH CARFENTANIL WILL KILL YOU.



Someone has been mixing deadly carfentanil into heroin.  
People are dying at alarming rates, nationwide.

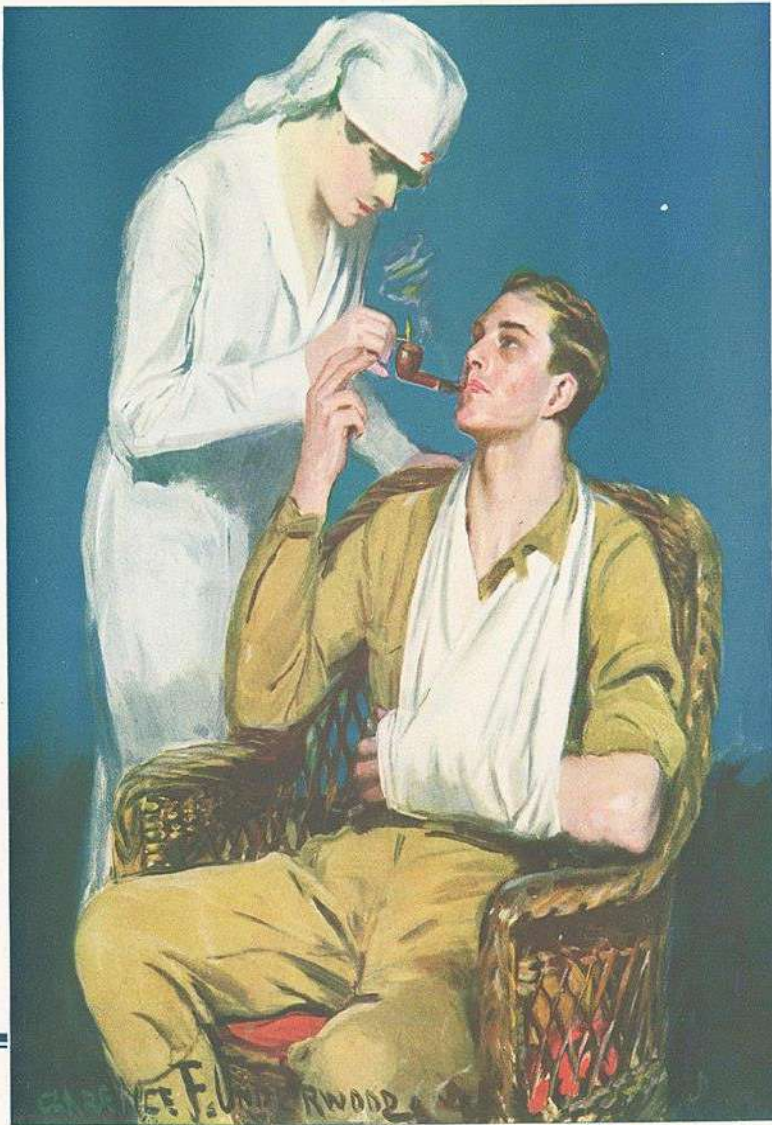
**STOP PLAYING RUSSIAN ROULETTE**  
We accept admissions 24/7 x 365

**CALL 888-443-3869**



*Sunrise Detox*  
NEW JERSEY • GEORGIA • FLORIDA

# WWI - 30's



## Help Her Fill a Pipe for "Sammy"!

**\$1 keeps a fighting man happy for a month—**  
**MAIL THE COUPON!**  
"OUR BOYS IN FRANCE TOBACCO FUND," 25 West 44th Street, New York  
 Gentlemen—I want to do my part in cheering the American soldiers who are fighting our battles in France. Check below how you desire to contribute.  
 I send you herewith \_\_\_\_\_ my contribution towards the purchase of tobacco for American soldiers. This does not obligate me to contribute again.  
 Enclose \$1.00. I will admit a soldier and send you \$1.00 a month to supply him with "toobies" for the duration of the war.  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_ McC. 4047

**MEN** and women of America—what are you doing to bring comfort to American boys who are risking their lives in France to defend you from the fate that overtook the Belgians.  
 Our fighting men in the trenches and with the fiercest need and crave tobacco. Help us to send it to them.  
 Dive into your purse. Out comes a quarter, half-dollar, a dime. Mail it at once—currency, stamps, check or money order. The quicker it comes the quicker our boys will have their smokes.

**A War Souvenir for You**  
 A feature of this fund is that in each package is enclosed a post card addressed to the donor. If it is possible for the soldier or sailor receiving the tobacco to mail you the post card receipt, it will be a war souvenir you will treasure forever.  
 The name for this advertisement is given free. Clarence F. Underwood contributed the above illustration. Every cent collected goes into the purchase of tobacco donated for our soldiers and sailors. The whole nation is helping. Do your part.  
 "The War Department approves of this enterprise. That if those who take part in raising the War Boys in France Tobacco Fund" and donate there in behalf of many a homesick soldier and sailor who will be cheered and comforted by the kindly gift themselves, but will never by the spirit of cordial and honest reciprocity which impregnates." NEWTON D. BAKER, Secretary of War.

25 West 44th Street "OUR BOYS IN FRANCE TOBACCO FUND" New York City



**20,679\*** Physicians  
 say "**LUCKIES**  
 are *less irritating*"

**"It's toasted"**  
 Your Throat Protection against irritation against cough

\*The figures quoted have been checked and certified to by EVERARD, ROSS, BROS. AND MONTGOMERY, Accountants and Auditors.

THE RICHMOND COLLEGIAN

*"Cream of the Crop"*

**LUCKY STRIKE CIGARETTES**  
 "IT'S TOASTED"

Sue Carol

**"Now I use LUCKIES only"**

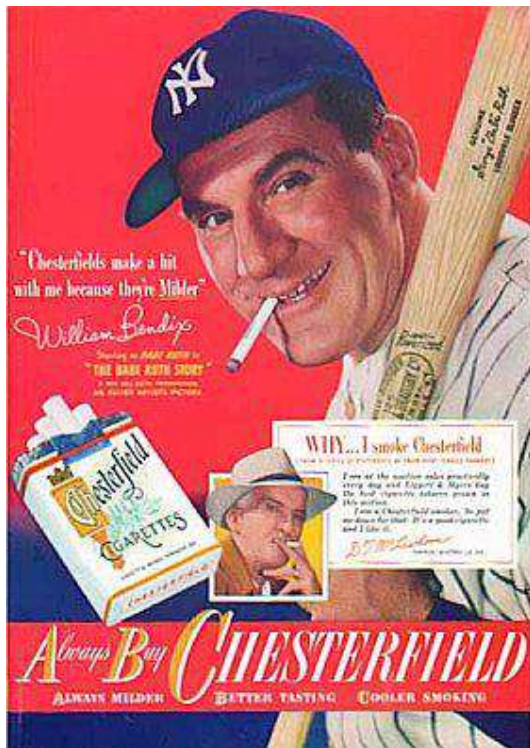
*"I have had to smoke various brands of cigarettes in pictures, but it was not until I smoked LUCKIES that I discovered the only cigarettes that did not irritate my throat. Now I use LUCKIES only. The added convenience of your improved Cellophane wrapper that opens so easily is grand."*

*Sue Carol*

**"It's toasted"**  
 Your Throat Protection—against irritation—against cough  
 And Moisture-Proof Cellophane Keeps that "Toasted" Flavor Ever Fresh

TUNE IN ON LUCKY STRIKE—60 modern melodies with the world's finest dance orchestras and Walter Winchell, whose gossip of today becomes the news of tomorrow, every Tuesday, Thursday and Saturday evening over N. B. C. networks.

# 40's



"Chesterfields make a hit with me because they're Milder"  
*William Bendix*  
 Starring in *BALE GATES IN THE DARK WITH SHOOT*  
 A new and better experience in motion picture pictures

**WHY... I smoke Chesterfield**  
 One of the reasons why I personally enjoy this and I hope it helps you to find the best cigarette before you go to the store.  
 From a Chesterfield smoker, the best advice I can give is: "It is a good cigarette and I like it."  
*W. Bendix*

**Always Buy CHESTERFIELD**  
 ALWAYS MILDER BETTER TASTING COOLER SMOKING



**Viceroy**  
**FILTER**  
**the Smoke!**

As your Dentist,  
 I would recommend  
**VICEROYS**

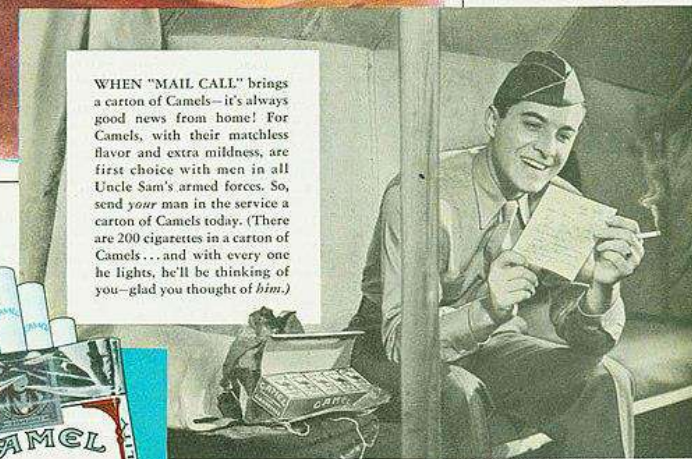
VICEROY Filter Tip CIGARETTES



*"Today we bought a War Stamp for Bobby—and Camels for you!"*

Next to those precious letters you write that tell them how you are and what you're doing... the thing men in the service want most from home is *cigarettes*.

When you send cigarettes, remember—the favorite brand in *all* the services—with men in the Army, the Navy, the Marines, the Coast Guard—is *Camel*. Men in the service appreciate Camel's rich, full flavor... and Camel's *extra* mildness.



WHEN "MAIL CALL" brings a carton of Camels—it's always good news from home! For Camels, with their matchless flavor and extra mildness, are first choice with men in all Uncle Sam's armed forces. So, send *your* man in the service a carton of Camels today. (There are 200 cigarettes in a carton of Camels... and with every one he lights, he'll be thinking of you—glad you thought of *him*.)

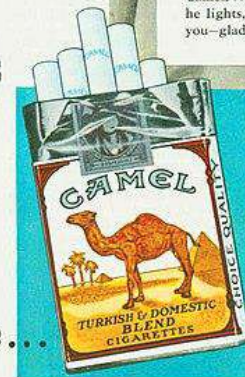
K. J. Bayliss Tobacco Company, Winston-Salem, North Carolina

**First**  
 IN THE SERVICE

With men in the Army, Navy, Marine Corps, and the Coast Guard, the favorite cigarette is Camel

(Based on actual sales records in Post Exchanges and Canteens.)

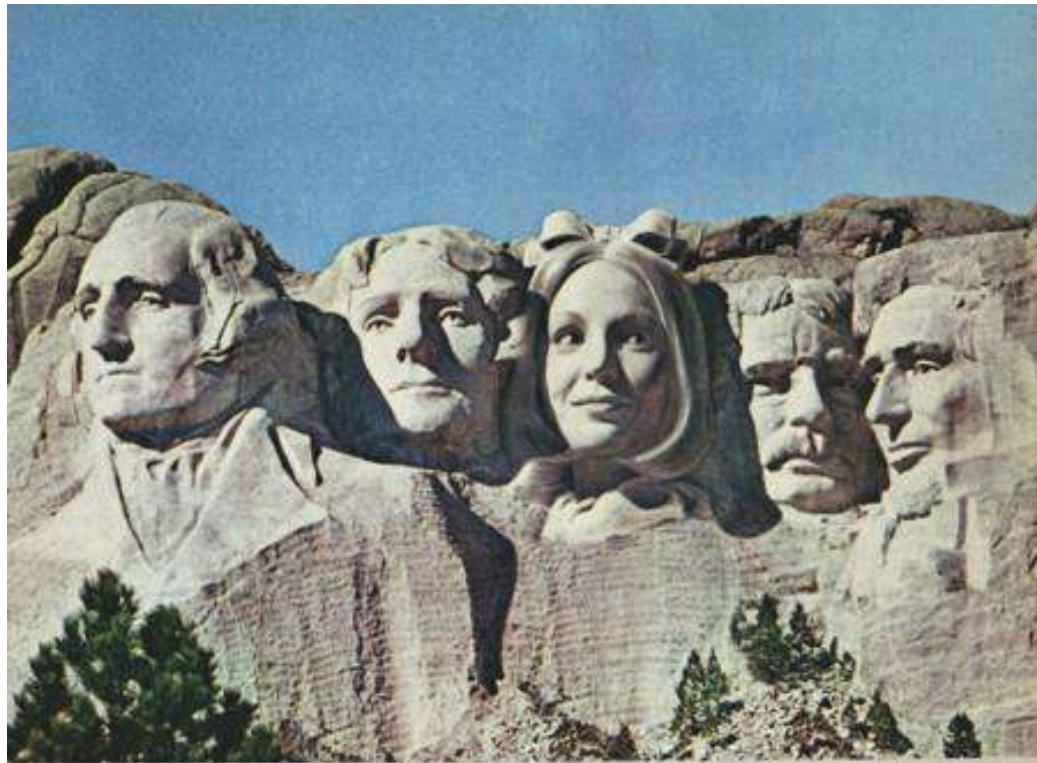
Send him  
 his favorite...



**Camels**



# 50's & 60's



On Father's Day, Virginia Slims reminds you that founding fathers couldn't have been founding fathers without founding mothers.



*You've come a long way, baby.*

**VIRGINIA SLIMS.**

Warning: The Surgeon General Has Determined That Cigarette Smoking Is Dangerous to Your Health.

17 mg. "tar," 1.2 mg. nicotine av. per cigarette, FTC Report Feb. '73

**I'M SENDING CHESTERFIELDS** to all my friends.  
That's the merriest Christmas any smoker can have —  
Chesterfield mildness plus no unpleasant after-taste  
*Ronald Reagan*

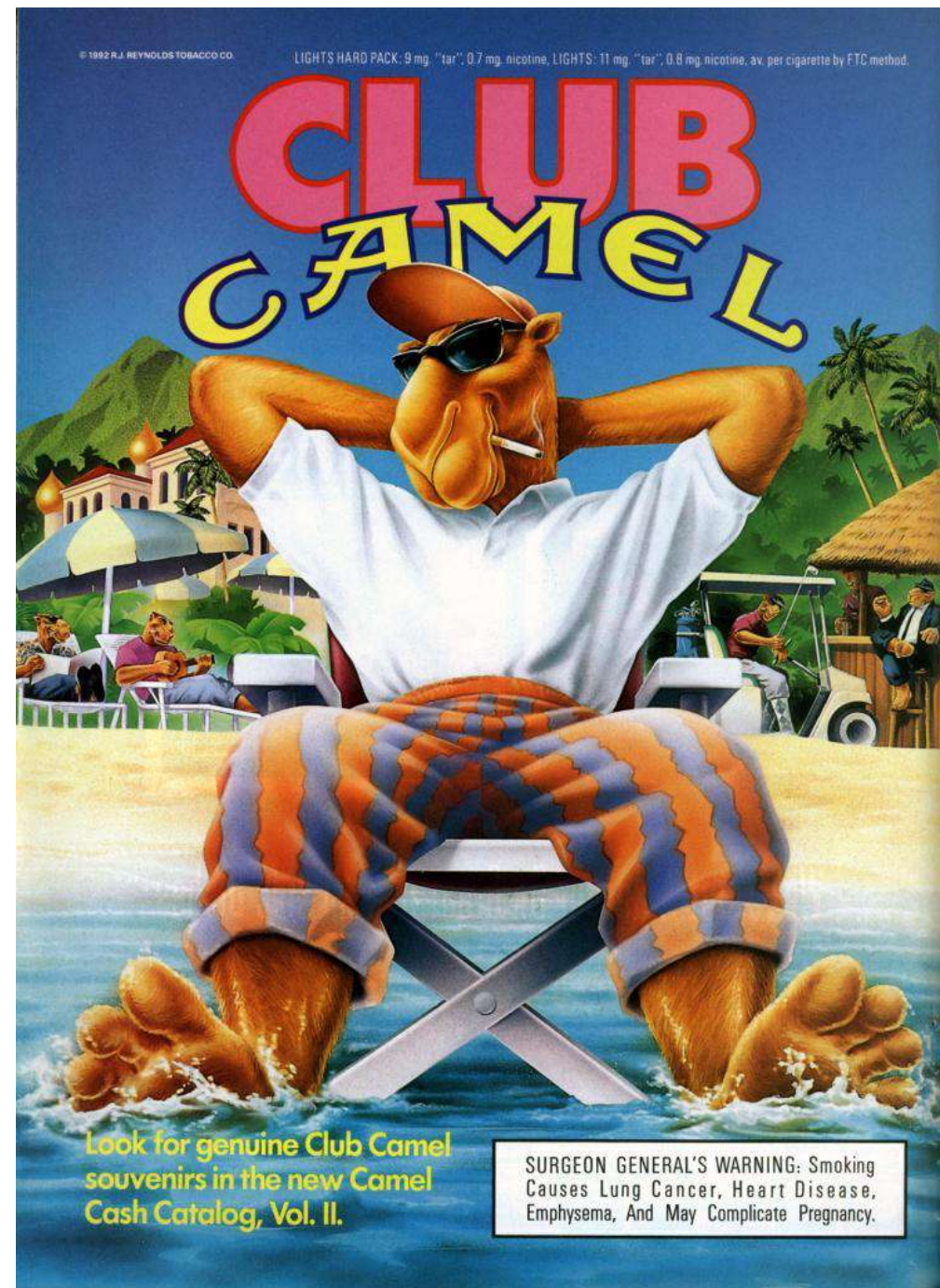
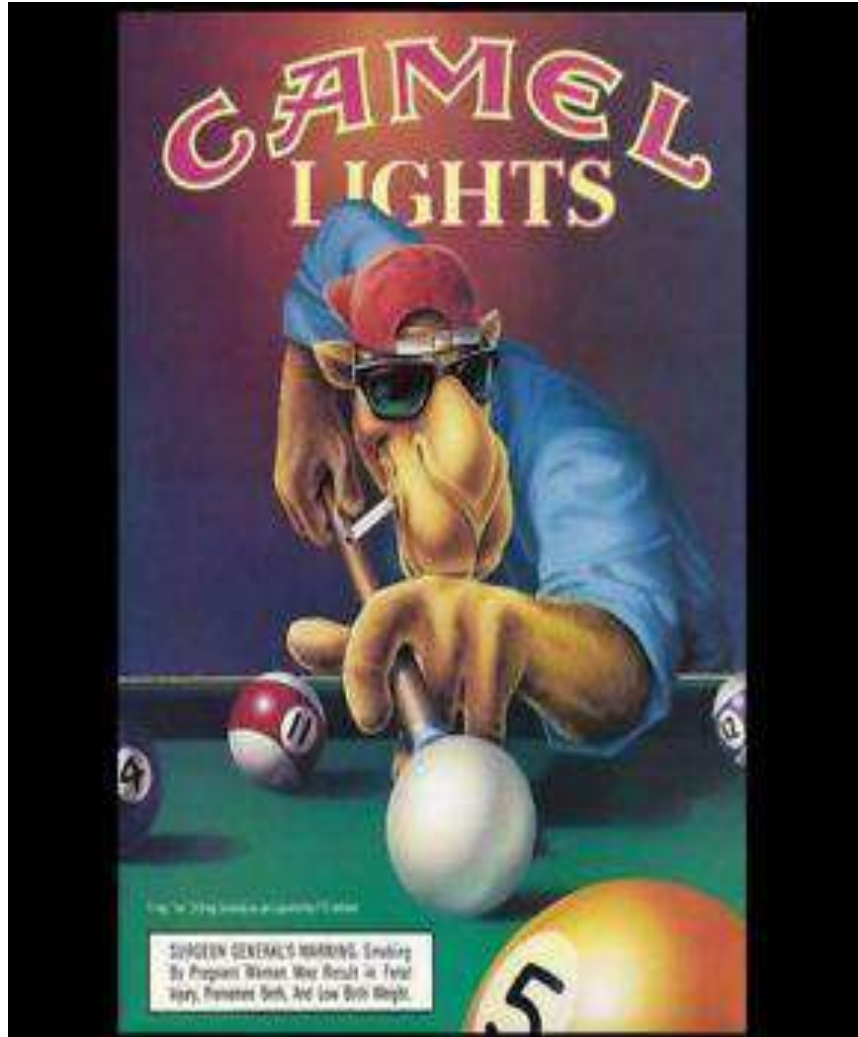
★ RONALD REAGAN  
starring in "HONG KONG" a Film  
Thomas Parham Production  
Color by Technicolor

**CHESTERFIELD** "Buy the beautiful Christmas-card carton"

# 70's - 80's



# 1988-1997





**NOW**



# QUESTIONS???

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