

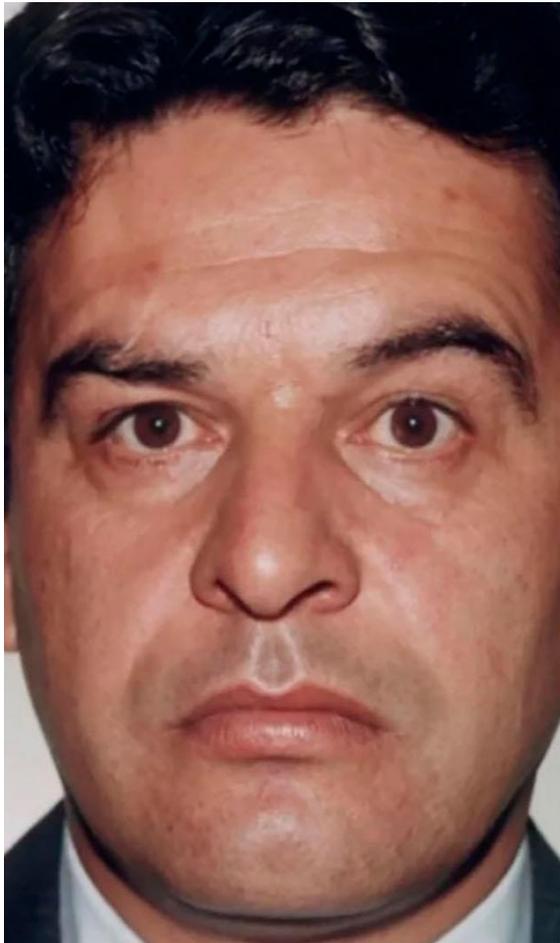
# **Fentanyl: the Deadliest Drug Vaping: Nicotine and other Oils and everything in between...**

**Stephanie Siete  
Public Information Officer**

NETFLIX



# Who is this?





Michael Peña as...

# Enrique “Kiki” Camarena

- Enrique S. Camarena was born on July 26, 1947, in Mexicali, Mexico
  - He graduated from Calexico High School in Calexico, California in 1966, and in 1968 he joined the U.S. Marine Corps
- After serving in the Marine Corps for two years, **Kiki was a Calexico fireman, Calexico police officer, and an Imperial County Deputy Sheriff**
- Kiki joined the Drug Enforcement Administration in June of 1974. His first assignment as a Special Agent with DEA was in a familiar place - Calexico, California

# Kiki's Career...

- In 1977, after three years in Calexico, he was reassigned to the Fresno District Office in Northern California
- Four years later, Kiki received transfer orders to Mexico, where he would work out of the Guadalajara Resident Office

# Enrique “Kiki” Camarena

- On Feb 7, 1985, at 2pm, Special Agent Enrique Camarena left the American Consulate in Guadalajara to meet his wife, Mika, for lunch
- **Kiki had been in Mexico for more than 4 years on the trail of Mexican marijuana and cocaine drug traffickers**
  - Kiki was due to be reassigned in three weeks because he had come dangerously close to exposing the top leaders of a multi-billion drug pipeline
- As Kiki walked to his truck, he was approached by 5 men who shoved him into a beige Volkswagen. One of the men threw a jacket over Kiki's head, and the driver sped away
- Kiki never saw his wife or family again

# His Death...

- It is believed that Special Agent Camarena's death actually occurred two days later, but his body was not discovered until March 5, 1985
- He was 37 years old and was survived by his wife Mika and their three children—Enrique, Daniel, and Erik



# RED RIBBON WEEK STARTED WITH ONE MAN

FRASCO

## Red Ribbon Week

Oct. 23<sup>rd</sup> - 31<sup>st</sup>

*DEA Remembers*  
SPECIAL AGENT **Kiki Camarena**  
& All of Our Fallen Heroes

*We Can Be DRUG FREE!* [www.dea.gov](http://www.dea.gov)

Together  
We  
Can  
Make  
A  
Difference



# Who am I?

- Stephanie Siete (yes, #7)
- Originally from Chicago area
- Yes, that makes me a diehard Cubs fan
- Love my dog kids, Cubbie and Ivy
- Worked for CBI for 17 years (started at 16 😊)
- Train first responders around the country
- Currently live in Phoenix, AZ
- Speaker for INIA

# Why do I care?

- My dad was a police officer
- Grew up in a Chicago suburb of violence, drugs and gangs
- Drugs everywhere but didn't know much about them
- Proud to be another positive adult role model to other people's kids
- We have an opioid crisis, as well as a drug one...

# FBI Director's Community Leadership Award Washington DC - April, 2017



Former FBI Director, James Comey



# Goals

- Be in the **know**
  - Know vs. No
  - Knowledge is key
- Do your **homework**
  - Tell 5 other people
  - Sharing is caring
- Share with your **circle**
  - Who are your people?
  - Neighbors, sister, best friend, gym pal, golf partner, co-worker, loved one

# Connecting...

- Social media
  - Early education
  - Fast pressure
- Risky behaviors
  - Drugs
  - Sexual acts
  - Suicidal acts
- Substances of abuse
  - Access and information

# What are we missing?

- How happy are we suppose to be?
  - Gotta save the 10s for big celebrations
- Why can't we feel good without chemicals?
- Are we teaching kids skills to thrive? Or are we the enablers and coddling them?
- Who is intervening w kids during developmental years?
  - Positive adult role models
- Why are Americans so needy?
  - Biggest consumers of drugs

# US Suicide Rate at 50 year High

- In 2017...
  - **44,193** committed suicide in the U.S
- **103 firefighters** and **140 police officers** committed suicide
  - 93 firefighters died in the line of duty
  - 129 police officers died in line of duty

# Youth Suicide Statistics

- Suicide is the **SECOND** leading cause of death for ages **10-24**
- More teenagers and young adults die from suicide than from cancer, heart disease, AIDS, birth defects, stroke, pneumonia, influenza, and chronic lung disease, **COMBINED.**
- Over 3,041 attempts daily by young people grades 9-12
  - Imagine the numbers if we counted earlier ages groups

# What are we missing?

- How happy are we suppose to be?
  - Gotta save the 10s for big celebrations
- Why can't we feel good without chemicals?
- Are we teaching kids skills to thrive? Or are we the enablers and coddling them?
- Who is intervening w kids during developmental years?
  - Positive adult role models
- Why are Americans so needy?
  - Biggest consumers of drugs

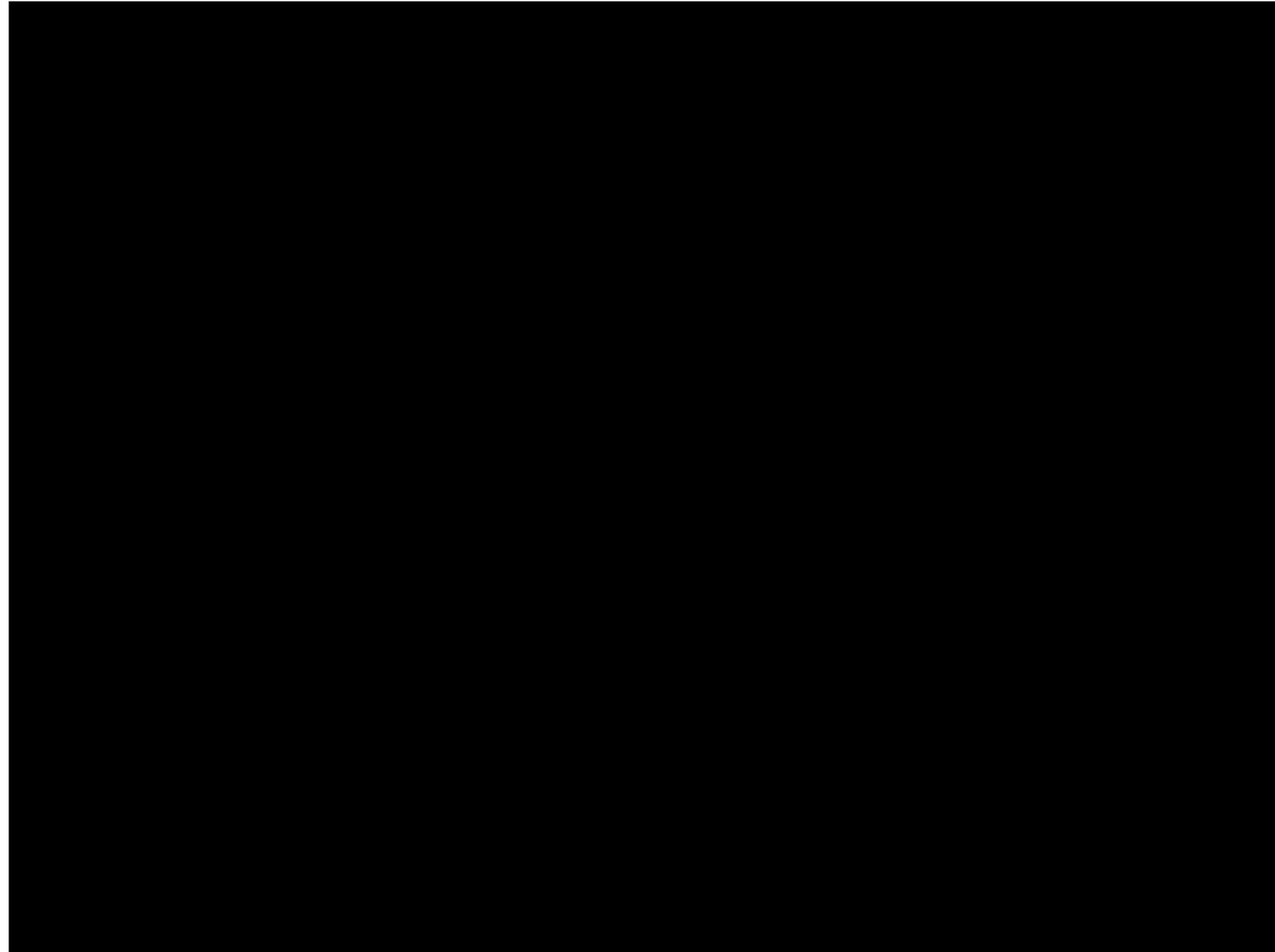
# Why our jobs matter...

- We must collaborate
  - Educate, enforce laws, provide resources for services to better lives
- We must prioritize
  - All lives matter, but who wants help?
- Must have passion
  - If you don't then what are you doing?
- Must know when to decompress
- And ask for help...

# Why we all should care...

- Drugs don't discriminate
- It's a **community** concern
- Most drug deaths are from the legal ones
- **Face of addiction has changed**
- Let's prevent pain
- Lives matter... all of them
- Let's be in the know...

# Drug effects tested on spiders...

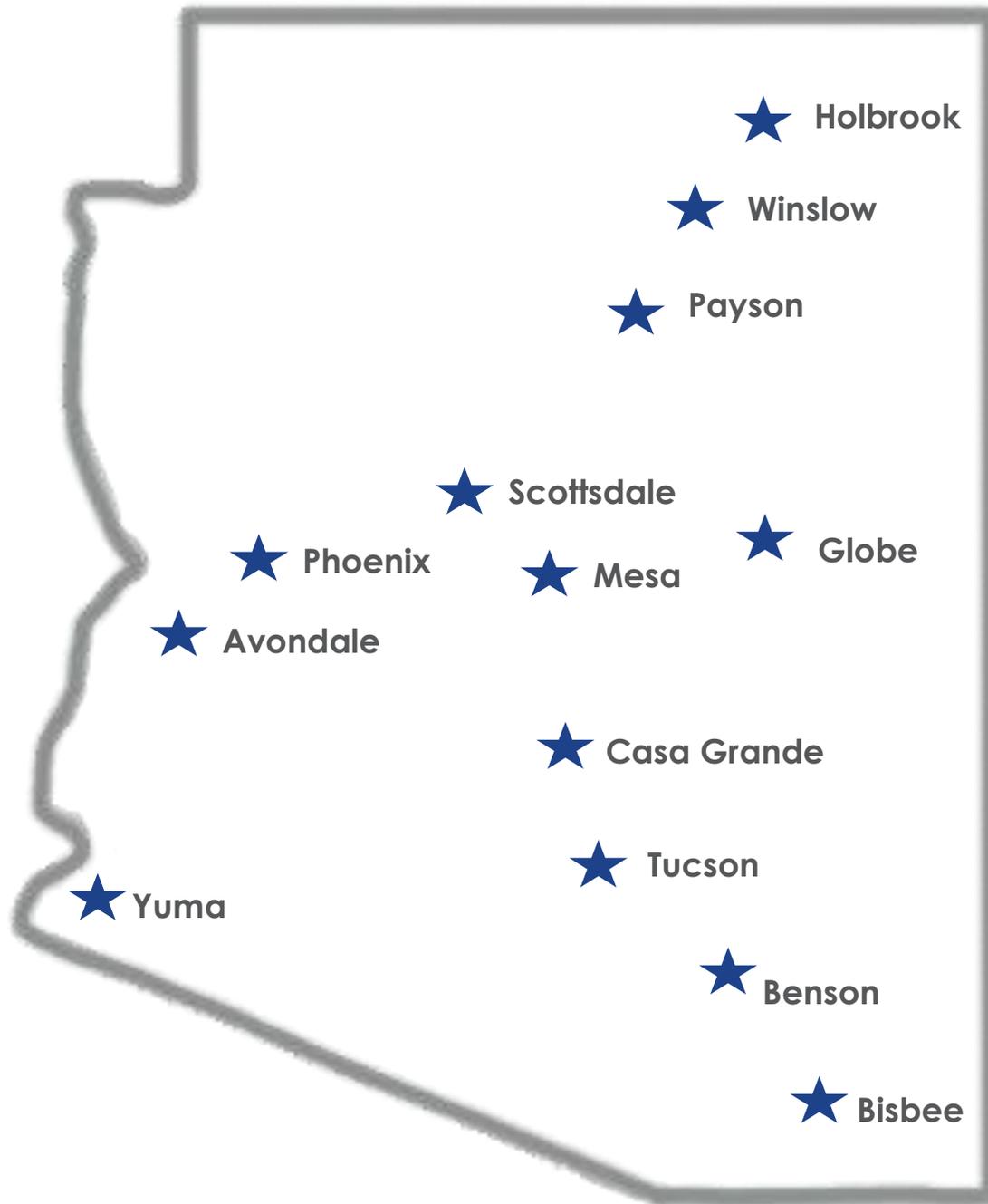


# Our Locations

*Maricopa County*

*Northern Region*

*Southern Region*

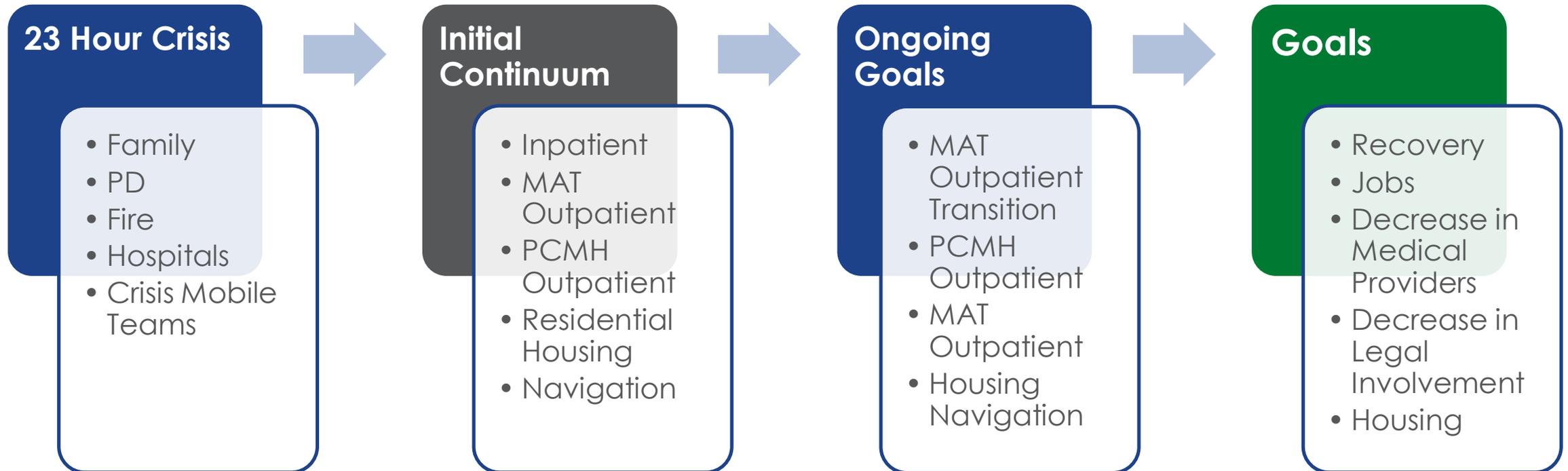


# Services

- Crisis Care
- Substance Use Treatment
- Mental Healthcare
- Supportive Housing
- Community Education

# Full Continuum of Care

*The goal is to help you through every part of recovery*

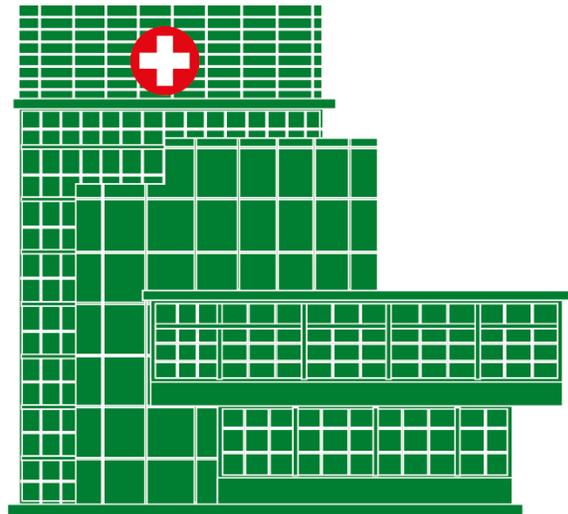


# 24/7 crisis in-take

**FAMILY**



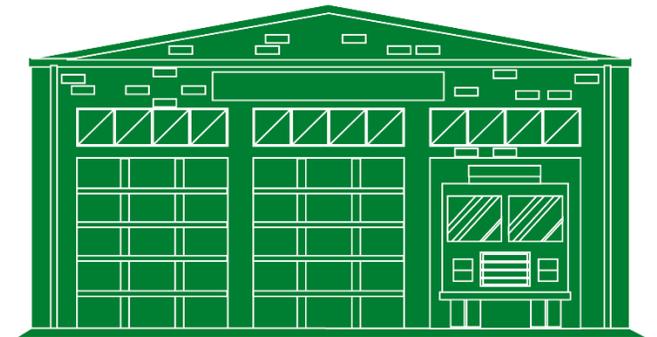
**HOSPITAL**



**POLICE**



**FIRE STATION**



## IN 2017, THE U.S. EXPERIENCED

**169,936**

PREVENTABLE  
DEATHS

**47.2**

MILLION  
INJURIES

**\$1,034.6**

BILLION  
IN COSTS

# Employee drug abuse includes these three facts about illicit drugs:

- The United States is about 5% of the entire world's population
  - **We buy and consume sixty percent (60%) of the *entire world's supply of illicit drugs***
- In the U.S., 77% of all illicit drug users are EMPLOYED either full or part-time

# Americans more likely to die from opioid overdose than in a car accident

BY ASHLEY WELCH

UPDATED ON: JANUARY 14, 2019 / 2:30 PM / CBS NEWS



For the first time on record, Americans are more likely to die of an accidental [opioid overdose](#) than in a motor vehicle crash, according to a new report from the National Safety Council.

The group calculates that the chance of dying from an opioid overdose has increased to **1 in 96**, surpassing the odds of dying in a car accident, at 1 in 103. It's also greater than the odds of [dying from a fall](#), a [gun assault](#), [pedestrian accident](#), or [drowning](#).

# Odds of Dying

For the first time on record, your odds of dying from an accidental opioid overdose are greater than dying in a motor-vehicle crash

Lifetime odds of death for selected causes, United States, 2017

Cause of Death	Odds of Dying
Heart Disease	1 in 6
Cancer	1 in 7
Chronic Lower Respiratory Disease	1 in 27
Suicide	1 in 88
<b>Opioid overdose</b>	1 in 96
<b>Motor Vehicle Crash</b>	1 in 103
<b>Fall</b>	1 in 114
Gun Assault	1 in 285
<b>Pedestrian Incident</b>	1 in 556
<b>Motorcyclist</b>	1 in 858
<b>Drowning</b>	1 in 1,117
<b>Fire or Smoke</b>	1 in 1,474
<b>Choking on Food</b>	1 in 2,696
<b>Bicyclist</b>	1 in 4,047
Accidental Gun Discharge	1 in 8,527
<b>Sunstroke</b>	1 in 8,912
Electrocution, Radiation, Extreme Temperatures and Pressure	1 in 15,638
Sharp objects	1 in 28,000
<b>Cataclysmic Storm</b>	1 in 31,394
Hot surfaces and substances	1 in 46,045
Hornet, wasp and bee stings	1 in 46,562
Dog attack	1 in 115,111
Passenger on an airplane	1 in 188,364
Lightning	1 in 218,106
Railway passenger	1 in 243,765

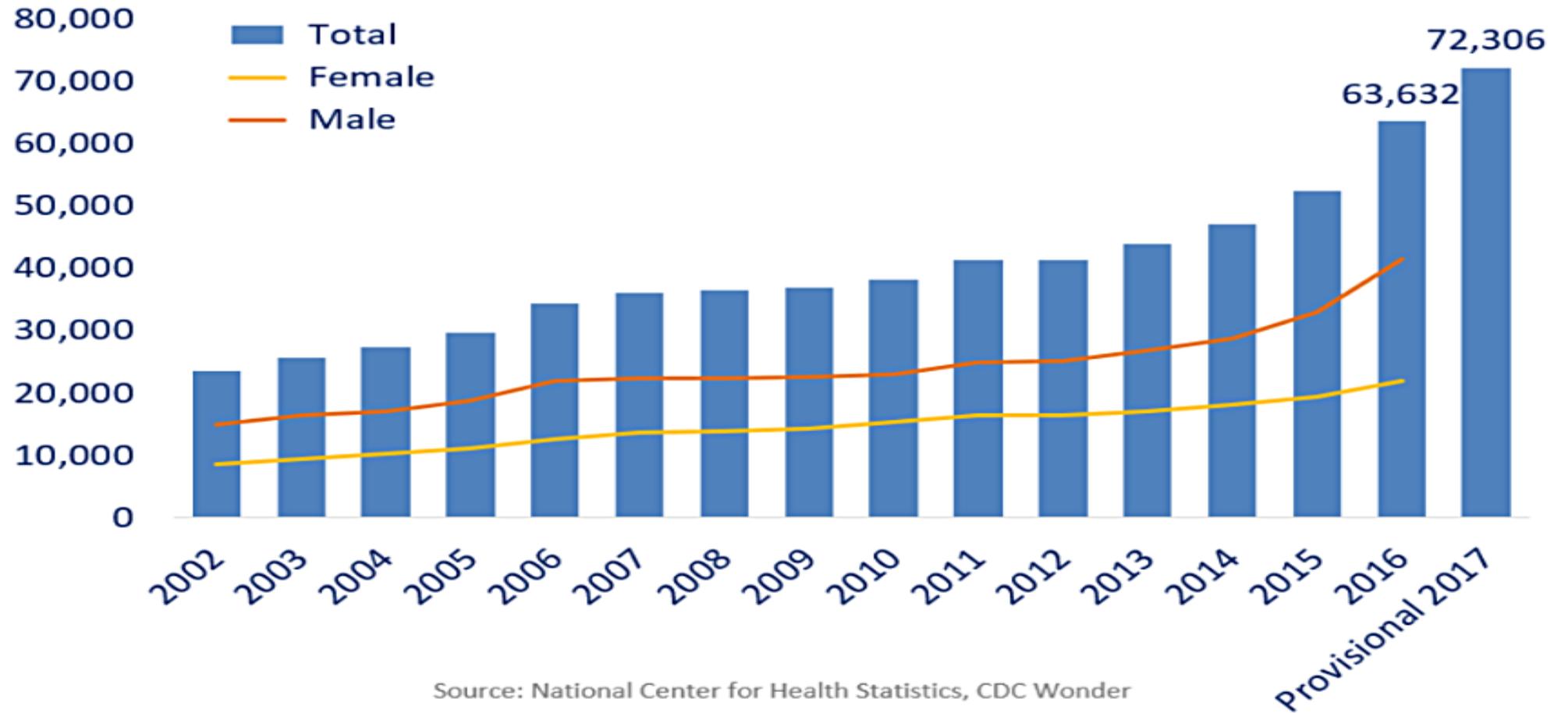


National Institute  
on Drug Abuse



# National Overdose Deaths

## Number of Deaths Involving All Drugs



Source: National Center for Health Statistics, CDC Wonder



# National Overdose Deaths

## Number of Deaths Involving Opioids



Source: National Center for Health Statistics, CDC Wonder

# Daily Opioid Deaths in US...

- 2015
  - 90 deaths a day
- 2016
  - 115 deaths a day
- 2017
  - 134 deaths a day

# In the news...

BERKS

## Bust on Route 222 leads to \$50K in fentanyl-laced heroin

Car stopped at Reading interchange of Pa. Turnpike

By: Jim Vasil

Posted: May 08, 2018 06:55 PM EDT

Updated: May 08, 2018 06:55 PM EDT



Health | Nation | Nation & World

## Fentanyl, mixed into cocaine and meth, is pushing overdose deaths higher

Originally published April 3, 2018 at 12:44 pm | Updated April 3, 2018 at 2:17 pm



FILE - In this Nov. 8, 2017, file photo, a Cleveland Police Department medic administers Narcan to a man while responding to a possible overdose report at a gas station in downtown Cleveland. (AP Photo/John Manchillo, File Photo)

As county coroners have begun releasing their 2017 tallies, a trend has emerged of more deaths involving meth or cocaine mixed with fentanyl, the dangerous opiate flooding in from China that many cocaine, meth and heroin users do not even realize is present in their drugs.

By DAN SEWELL

The Associated Press



SHEIN

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PUBLIC HEALTH

# Fentanyl-Laced Cocaine Becoming A Deadly Problem Among Drug Users

March 29, 2018 - 5:00 AM ET

Heard on Morning Edition

MARTHA BEBINGER

FROM 90.9 WHDH BOSTON'S NPR NEWS



## Heroin Use Spikes Fivefold in U.S.

By Maggie Fox / Mar. 29, 2017 / 6:07 PM ET / Updated Mar. 29, 2017 / 6:06 PM ET



A heroin user prepares to inject himself in New London, CT. (John Moore / Getty Images)

KIDS' HEALTH

# Nearly 12,000 Kids Poisoned by Opioids Each Year

by Maggie Fox / Mar. 20, 2017 / 10:36 AM ET



## Spirit Airlines Pilot, Wife Found Dead by Children After Possible Overdose

by Phil Matocic and Robert Williams / Mar. 17, 2017 / 5:08 PM ET / Updated Mar. 17, 2017 / 5:02 PM ET



Wife and Co-pilot, Spirit

Authorities on Friday were investigating the death of a Spirit Airlines pilot and his wife, whose bodies were found

Home / News / Breaking News News /

## Akron boy, 9, calls 911 after baby brother overdoses on opiates; mother reportedly flees scene

Published: June 1, 2017 - 11:00 AM

By Akron Beacon Journal Staff



Rescuers arrived at a 3-year-old boy, who suffered an overdose after ingesting opiates Thursday evening in a home on Gale Street in West Akron.

Authorities said the boy's 9-year-old brother called 911 at 6:22 p.m. to say that the baby wasn't breathing. Officers and paramedics arrived at the home and gave the boy Narcan, an overdose reversal drug. Authorities were looking for the baby's mother, who fled when police arrived, Akron Police Lt. Rick Edwards said.

The boy was transported to Akron Children's Hospital, where he received a second dose of Narcan. He was breathing on his own at 8 p.m., police said.

Edwards said that this was the youngest opiate overdose ever recorded in Akron.

Summit County Children's Services took custody of both children.



MOST READ

NEWSWEARTV.com

NEWS WEATHER SPORTS FEATURES ON WEAR HEALTHWATCH CIRCA

## Opioid crisis is causing more grandparents to skip retirement to raise grandchildren

by Allie Norton |



# Opioids killing 17 people a day in Florida

- 3 pounds of fentanyl
- 75 firearms
- \$100,000 in cash
- Enough opioids for 500,000 lethal doses
- “Enough to kill everyone in Brevard County”

FLORIDA

## Florida drug bust nets enough fentanyl to kill 500,000, dozens arrested, sheriff says

Sheriff: Largest drug operation in county history, 104 arrest warrants out

By ClickOrlando.com staff

Posted: 11:29 AM, May 01, 2019

Updated: 9:38 AM, May 03, 2019





ARIZONA

## K-9 sniffs out 30K fentanyl pills, 5 pounds of heroin in traffic stop near Holbrook

Nichole Mitchell, 38, and Alberto Sandoval, 37, were booked into jail and are facing charges for transporting narcotics for sale.

Author: 12 News  
Published: 12:43 PM MST April 10, 2019  
Updated: 12:43 PM MST April 10,

## Mohave County jail transfers 50 inmates to neighboring counties after overdoses

Ali Phillips, Arizona Republic Published 1:32 p.m. MT April 19, 2019



## Florida man hides drugs in his butt crack

A Port Charlotte man was arrested Wednesday after deputies found drugs in his car. That wasn't the only place he has drugs, though.

Thursday, April 18th 2019, 10:58 AM EDT by Taylor Crehan



d drugs in his car. That wasn't

# Fentanyl Bust in Nogales

- 254 pounds of fentanyl
  - Largest bust
- 395 pounds of methamphetamine
  - 3<sup>rd</sup> largest bust
- \$4.6 million street value

## Feds make largest fentanyl bust in U.S. history

Customs and Border Protection officers said Thursday they discovered 254 pounds of the drug hidden in a floor compartment of a truck trailer loaded with cucumbers.



Jan. 31, 2019, 11:52 AM MST

By Pete Williams

The sensitive nose of a drug-sniffing dog has led to what federal

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by Taboola





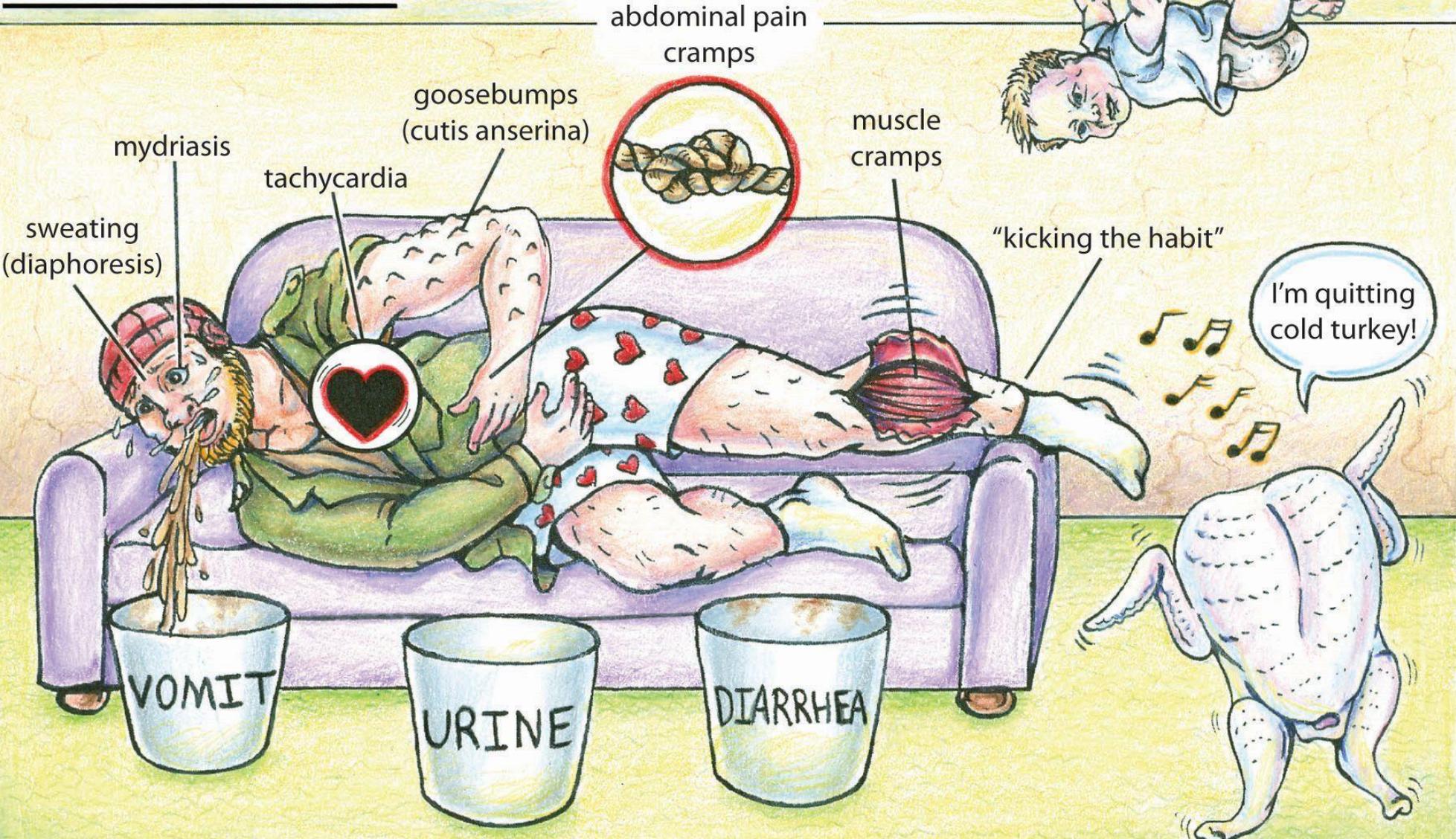
## Considerations...

- How do we deal with pain?
- Are pills the only option?
- Teaching coping mechanisms early
- Understanding physical addiction
- Being prepared to go through withdrawal
- Costs
  - Financial
  - Emotional
  - Physical
- Naloxone can't be a cure all



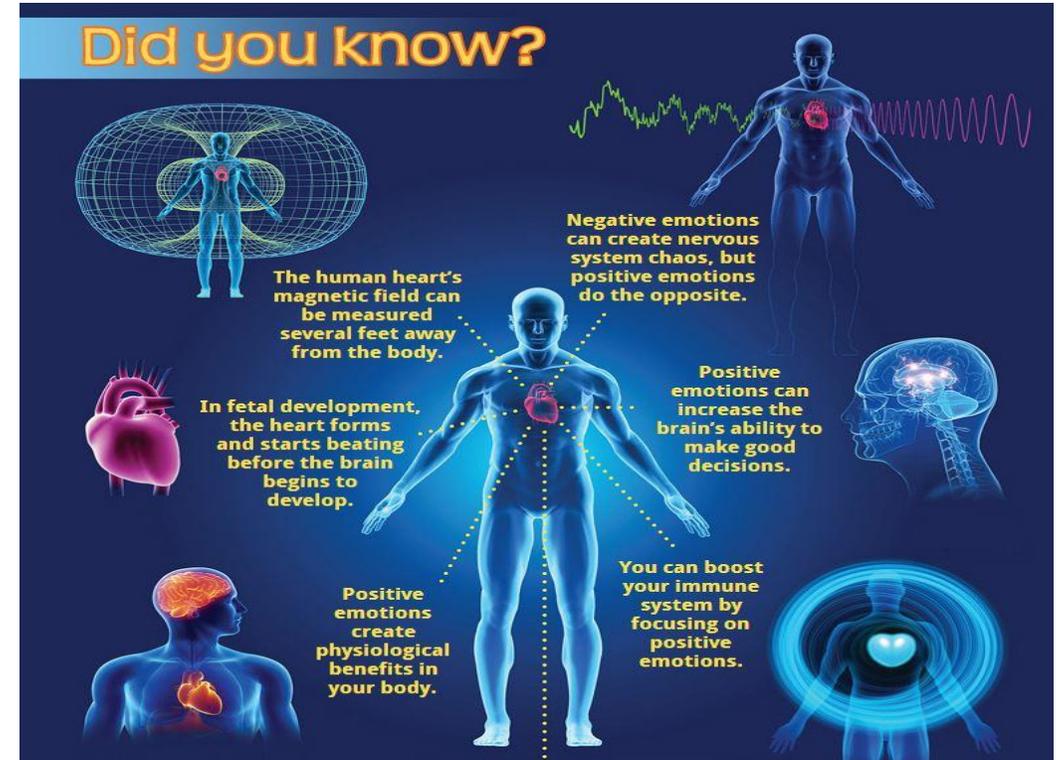
**US loves Rx**

# Opiate Withdrawal



# Alternative Pain Management

- Massage
- Meditation
- Biofeedback
- Hypnotherapy
- Chiropractic
- Aromatherapy
- Acupuncture
- Exercise
- Other relaxation therapies



# Mood-Boosting Power of Dogs

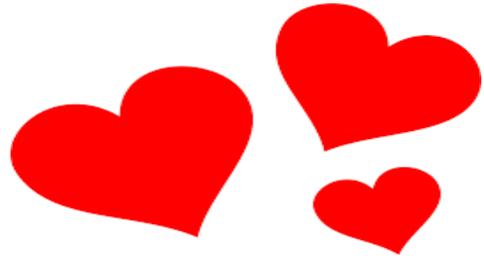
## – How Caring for a Dog Helps You Cope with Depression, Anxiety, and Stress

- Dogs in particular **can reduce** stress, **anxiety**, and depression, ease loneliness, encourage exercise and playfulness, and even improve your cardiovascular health. Caring for a dog **can** help children grow up more secure and active or provide valuable companionship for older adults



# Studies have found...

- **Dog owners are less likely to suffer from depression than those without pets**
- People with dogs have lower blood pressure in stressful situations than those without pets. One study even found that when people with borderline hypertension adopted dogs from a shelter, their blood pressure declined significantly within five months
- **Playing with a dog or cat can elevate levels of serotonin and dopamine, which calm and relax**
- Pet owners have lower triglyceride and cholesterol levels (indicators of heart disease) than those without pets
- **Heart attack patients with dogs survive longer than those without**
- **Pet owners over age 65 make 30 percent fewer visits to their doctors than those without pets**



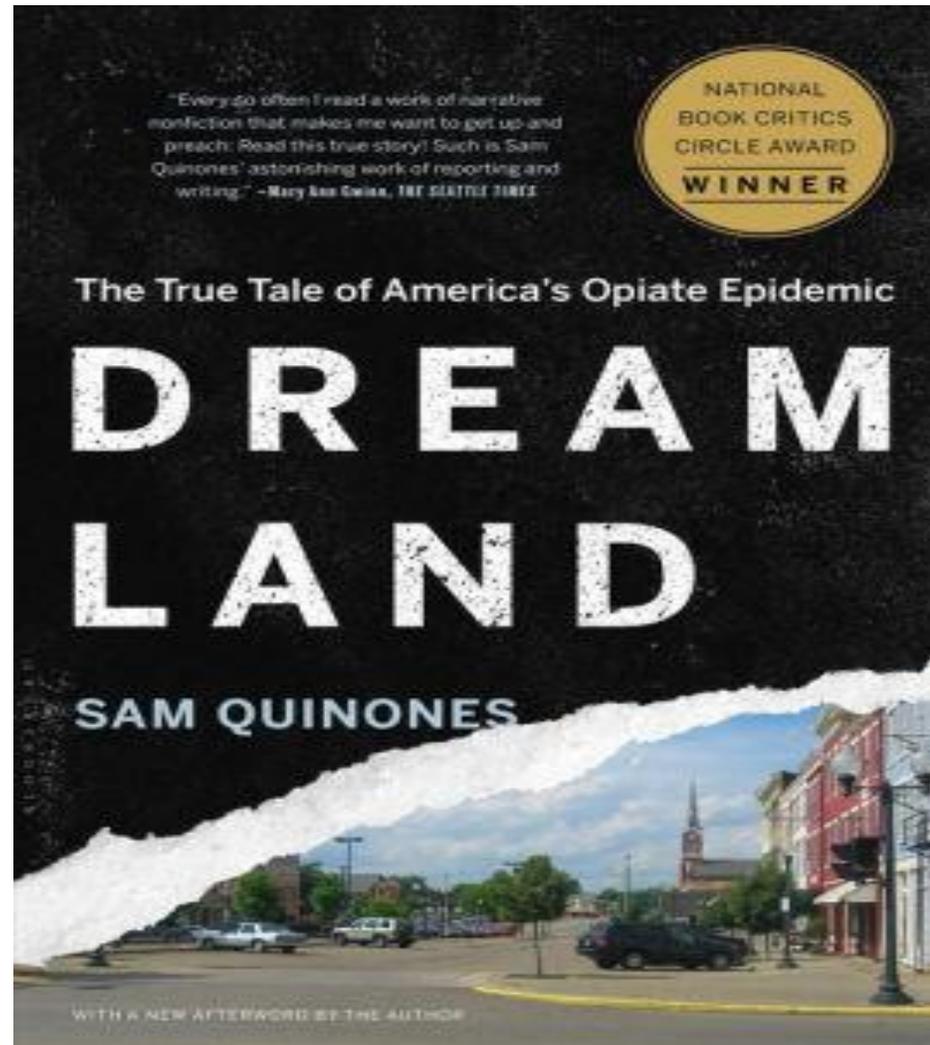
**My happy:  
Cubbie and Ivy**



# One Nation Overdosed

- <https://www.nbcnews.com/storyline/americas-heroin-epidemic>
- <https://www.youtube.com/watch?v=MT74X6YMx5Q>
- <https://www.youtube.com/watch?v=C6g5ODWUyaA>
- <https://www.youtube.com/watch?v=paXCC5rAWMA>
- <https://www.youtube.com/watch?v=DhH-6TwhWpl>

# Dreamland: The True Tale of America's Opiate Epidemic



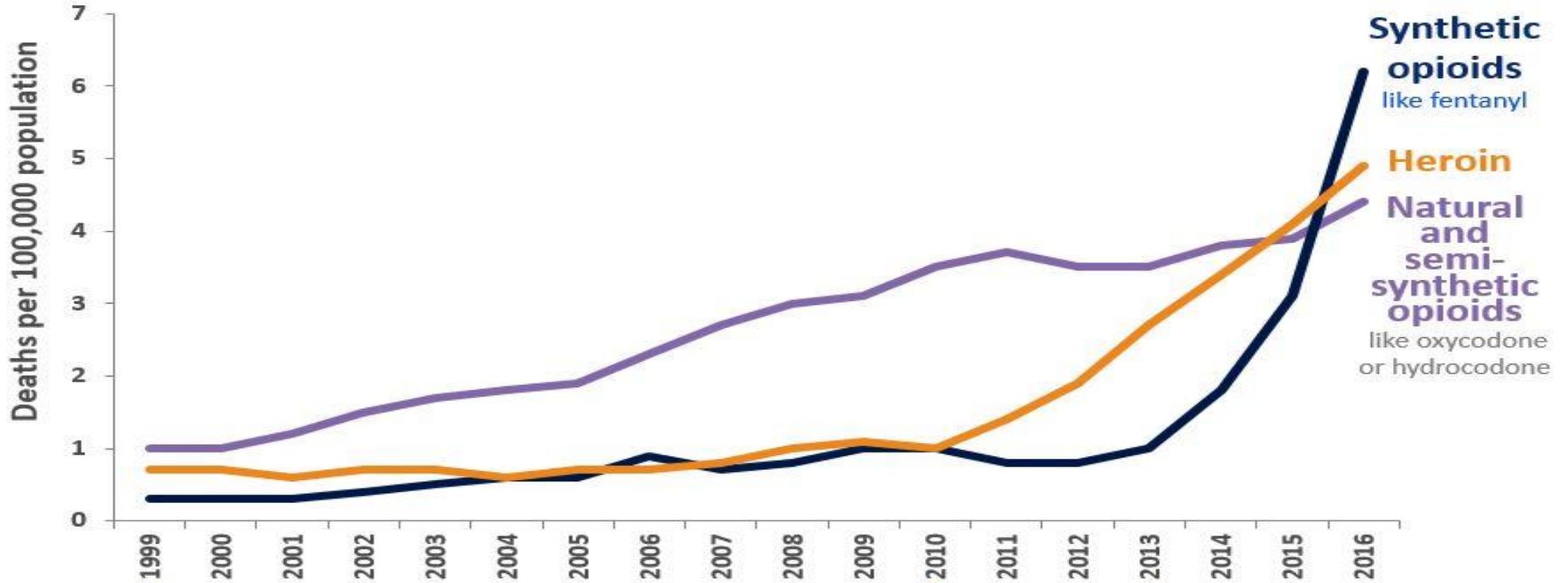
# Opioids drive continued increase in drug overdose deaths

Drug overdose deaths increase for 11th consecutive year

- **Drugs Deaths on the Rise in the US**

- **6,100** in 1980
- **16,849** in 1999 (**4,030** opioid analgesics)
- **36,500** in 2008
- **38,329** in 2010 (**16,651** opioid analgesics)
- **43,982** in 2013 (**16,235** opioid analgesics)
- **47,055** in 2014 (**18, 893** opioid analgesics)
- **52,404** in 2015 (**33,091** opioid analgesics)
- **64,070** in 2016 (**42,000 (est)** opioids)
- **72,300** in 2017 (**49,000 (est)** opioids)

### 3 Waves of the Rise in Opioid Overdose Deaths



Wave 1: Rise in Prescription Opioid Overdose Deaths

Wave 2: Rise in Heroin Overdose Deaths

Wave 3: Rise in Synthetic Opioid Overdose Deaths

SOURCE: National Vital Statistics System Mortality File.

**The United States has 5% of the world's  
population & consumes 80% of the  
global opioid supply**

Arizona Department of Health Services, 2017

# Heroin Purity

- In 1980s = **3.6% pure**
- 1990 = **18% pure**
- 1998 = **41% pure**
- Today = **60-90% ???**
- No longer have to inject heroin to feel the effect. Purity so high effects felt by snorting or smoking
- 1996-1998 – 19 young people die of heroin overdoses in Plano, Texas
  - Purity levels ranged up to 75%



# Heroin mimics Oxy



Heroin in the Heartland – CBS News 60 Minutes

# America's Heroin Epidemic:

<http://www.nbcnews.com/storyline/americas-heroin-epidemic>

6 Celebrities who struggled with Heroin use



# Heroin Overdoses

Ohio couple slumped over in front seat of vehicle due to heroin overdoses while 4 year old toddler sits in back seat

September 9, 2016



# Heroin use on the rise...

- [Toddler cries in store aisle as mother overdoses on heroin](#)
- Sept. 22, 2016



# 7-Year-Old's Parents Found Dead After She Told Her Bus Driver She Couldn't Wake Them

Oct 5, 2016, Pennsylvania

- Two residents were found dead in their home Monday evening after their 7-year-old daughter told a school employee that she was unable to wake them that morning, according to the Allegheny County Police Department
  - The girl told a school bus monitor that she did not want to go home because her parents "**had not moved**" for more than **two days and had been "changing colors,"** according to Lt. Andrew Schurman of the Allegheny County Police
  - Along with the 7-year-old, a 5 and 3-year-old, and 9-month old were in the home

# Another parent's overdose, another child in the back seat: A 'new norm' for drug users?

Oct. 28, 2016





# Heroin

## A Bad Batch?

- Heroin laced fentanyl
  - Fentanyl up to 100 times stronger than morphine
- 22 people died within a week in Pennsylvania (Feb. 2014)
- 28 more people in Philadelphia died after using heroin laced with the painkiller fentanyl between March 3 and April 20, the city announced May 12<sup>th</sup>, 2014
  - 22 to 53 years of age
- Sold as “Theraflu” or “Bud Ice”
- [The Dangers of Fentanyl-Laced Heroin - ABC News](#)
- [Actor’s Overdose Death Sheds New Light On Fentanyl-Laced Heroin Issue « CBS Pittsburgh](#)

# What is Fentanyl?

- Narcotic
  - It can treat severe pain.
- Potent
  - Up to 50 times stronger than heroin and 100 times stronger than morphine
- Controlled substance
  - High risk for addiction and dependence. Can cause respiratory distress and death when taken in high doses or when combined with other substances, especially alcohol.

# Florida sheriff deputy revived with Narcan, 3 others recovering after exposure to drugs

By Lucia I. Suarez Sang | Fox News



## Florida cop revived with Narcan after possible fentanyl exposure

Lake County Sheriff's Office spokesperson says one of their deputies had to be revived with Narcan after exposure to what investigators believed was fentanyl during a traffic stop. Two firefighters and a suspect also became ill from the exposure.

Florida first responders administered Narcan after fentanyl exposure

- Sheriff revived
- Firefighters and deputy needed Narcan too
- Male suspect fell ill

### Trending in US



Missouri could soon free' state since Ro

2

Tennessee church s 'severe mental illne

3

Michigan State cho

# Border Patrol seizes aircraft loaded with meth, fentanyl after it flies into US

Posted: 7:20 AM, May 25, 2019 Updated: 7:20 AM, May 25, 2019

By: MARK OSBORNE/ABC NEWS



null

+ Show Caption



TUCSON, AZ — An ultralight aircraft carrying half a million dollars worth of methamphetamine and fentanyl [across the southern border](#) was nabbed by Border Patrol agents late Thursday, according to the agency, but the pilot managed to make an escape.



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## Creative Transnational Criminal Organizations

- Single person ultralight aircraft
- Drugs found, no pilot
- \$500,000 worth of meth and fentanyl



— Some of the 30,000 fentanyl pills the Drug Enforcement Administration seized in a bust in Tempe, Arizona, in August 2017.

Drug Enforcement Administration via AP file

At the same crossing last month, [U.S. officials announced their biggest fentanyl bust ever](#) – nearly 254 pounds seized from a truckload of cucumbers, enough to potentially kill millions. Valued at \$3.5 million, most was in powder form and over 2 pounds was made up of pills.

## Feds make largest fentanyl bust in U.S. history

Customs and Border Protection officers said Thursday they discovered 254 pounds of the drug hidden in a floor compartment of a truck trailer loaded with cucumbers.



Jan. 31, 2019, 11:52 AM MST

By Pete Williams

The sensitive nose of a drug-sniffing dog has led to what federal officials say is the largest seizure in U.S. history of fentanyl, the synthetic opioid blamed for the majority of overdose deaths.

Sponsored Stories

by Taboola



# Fentanyl Crisis: Ohio Cop Accidentally Overdoses During Drug Call

## Fentanyl Crisis: Accidental Overdose

- [Ohio police officer accidentally overdoses on fentanyl after traffic stop](#)
- Exposed to fentanyl on a call... used safety precautions
- When back at station, brushed off powder off of his shoulder and was face down on ground within hour
- Needed 4 doses of Narcan to be revived until at hospital



— The car of suspected drug dealers Justin Buckle and Cortez Collins. East Liverpool Police Department

# Fentanyl Is Also Dangerous For Law Enforcement Officers And Dogs



<https://www.forbes.com/sites/davidkroll/2016/07/31/fentanyl-also-dangerous-for-law-enforcement-officers-and-dogs/#45e510d470d7>

# Grieving Aunt Shares Warning After Nephew, 19, Dies from Accidental Overdose Involving Fentanyl

- <https://people.com/human-interest/aunt-heartbreaking-warning-teen-drug-overdose/>



**Brandi Bundrick Nishnick**  
November 20, 2018 · 🌐

First, I want to thank everyone for the tremendous outpouring of love and support during what has become the most difficult time in my families life. As most of you know, we lost my nephew, Gunner, on November 3rd. While I will say it was totally unexpected and shocking, I don't know that anyone could ever be prepared for this kind of pain. I have been wanting to send a message or write something... See More

Valerie Grotfend, Jacqui Kelly, Denise Asaro-Dobson and 83,170 others like this.

1,003,521 Shares 199K Comment

View previous comments

**Ruth Schwill** I can't think of a worse thing than losing a child. My prayers goes out to this young man's family and REST IN PEACE GUNNER  
6h

**Sharon Hall-Poole** Very handsome guy. RIP. So sorry for your loss! Thank you for sharing this story to help save life. Prayers for the families 🙏🙏🙏❤️  
5h

**Lore Michelle Griffin** Kayla Griffin  
5h

**Pam Clark** Prayers for family left.  
4h

**Maggie Coates** I'm so sorry ,thank you for sharing this, I have two grandsons. 🙏  
4h

**Zoe Ainsworth-Grace** Thank you for sharing. Cassi and Alex  
2h

# Fentanyl Warning

- Since fentanyl can be ingested orally, inhaled through the nose or mouth, or absorbed through the skin or eyes, any substance suspected to contain fentanyl should be treated with extreme caution as exposure to a small amount can lead to significant health-related complications, respiratory depression, or death.

# FENTANYL<sup>†</sup>

## SAFETY RECOMMENDATIONS FOR FIRST RESPONDERS

<sup>†</sup> For the purposes of this document, fentanyl, related substances, and synthetic opioids (herein after referred to as fentanyl<sup>†</sup>) includes fentanyl analogues (e.g., acetylfentanyl, acrylfentanyl, carfentanil, furanylfentanyl), novel synthetic opioids (e.g., U-47700), and other drugs that may be laced with these substances.

- ▶ **The abuse of drugs containing fentanyl<sup>†</sup> is killing Americans. Misinformation and inconsistent recommendations regarding fentanyl<sup>†</sup> have resulted in confusion in the first responder community.**
- ▶ You as a first responder (law enforcement, fire, rescue, and emergency medical services (EMS) personnel) are increasingly likely to encounter fentanyl<sup>†</sup> in your daily activities (e.g., responding to overdose calls, conducting traffic stops, arrests, and searches).
- ▶ This document provides scientific, evidence-based recommendations to protect yourself from exposure.

### WHAT YOU NEED TO KNOW

- ▶ Fentanyl<sup>†</sup> can be present in a variety of forms (e.g., powder, tablets, capsules, solutions, and rocks).
- ▶ Inhalation of airborne powder is MOST LIKELY to lead to harmful effects, but is less likely to occur than skin contact.
- ▶ Incidental skin contact may occur during daily activities but is not expected to lead to harmful effects if the contaminated skin is promptly washed off with water.
- ▶ Personal Protective Equipment (PPE) is effective in protecting you from exposure.
- ▶ Slow breathing or no breathing, drowsiness or unresponsiveness, and constricted or pinpoint pupils are the specific signs consistent with fentanyl<sup>†</sup> intoxication.
- ▶ Naloxone is an effective medication that rapidly reverses the effects of fentanyl<sup>†</sup>.

#### Actions to take . . .

##### To protect yourself from exposure

- ▶ Wear **gloves** when the presence of fentanyl<sup>†</sup> is suspected.
- ▶ **AVOID actions that may cause powder to become airborne.**
- ▶ Use a properly-fitted, NIOSH-approved **respirator ("mask")**, wear **eye protection**, and minimize skin contact when responding to a situation where small amounts of suspected fentanyl<sup>†</sup> are visible and may become airborne.
- ▶ Follow your department guidelines if the scene involves large amounts of suspected fentanyl<sup>†</sup> (e.g., distribution/storage facility, pill milling operation, clandestine lab, gross contamination, spill or release).

##### When exposure occurs

- ▶ Prevent further contamination and notify other first responders and dispatch.
- ▶ Do not touch your eyes, mouth, nose or any skin after touching any potentially contaminated surface.
- ▶ Wash skin thoroughly with cool water, and soap if available. **Do NOT use hand sanitizers as they may enhance absorption.**
- ▶ Wash your hands thoroughly after the incident and before eating, drinking, smoking, or using the restroom.
- ▶ If you suspect your clothing, shoes, and PPE may be contaminated, follow your department guidelines for decontamination.

##### If you or other first responders exhibit

- **Slow Breathing or No Breathing**
  - **Drowsiness or Unresponsiveness**
  - **Constricted or Pinpoint Pupils**
- ▶ Move away from the source of exposure and call EMS.
  - ▶ Administer naloxone according to your department protocols. Multiple doses may be required.
  - ▶ If naloxone is not available, rescue breathing can be a lifesaving measure until EMS arrives. Use standard basic life support safety precautions (e.g., pocket mask, gloves) to address the exposure risk.
  - ▶ If needed, initiate CPR until EMS arrives.



#### Collaborative Support From:

- American College of Emergency Physicians
- American College of Medical Toxicologists
- American Industrial Hygiene Association
- Association of State and Territorial Health Officials
- Association of State Criminal Investigative Agencies
- Fraternal Order of Police

- International Association of Chiefs of Police
- International Association of Fire Chiefs
- International Association of Fire Fighters
- Major Cities Chiefs Association
- Major County Sheriffs of America
- National Alliance of State Drug Enforcement Agencies

- National Association of Counties
- National Association of County and City Health Officials
- National Association of Emergency Medical Technicians
- National Association of EMS Physicians
- National Association of State EMS Officials



- National Governor's Association
- National HIDTA Directors Association
- National Narcotics Officers' Associations' Coalition
- National Sheriffs' Association
- National Volunteer Fire Council
- Police Executive Research Forum
- Police Foundation

# Fentanyl Slang

- Apache
- China Girl
- China Town
- **China White**
- Drop Dead
- Friend
- Gone Wild: Newer fentanyl analogs
- Goodfella
- Great Bear
- He-Man
- Jackpot
- King Ivory
- Murder 8
- **Perc-a-Pop:** A berry-flavored lozenge containing on a stick designed to give relief to cancer patients that is being illegally diverted
- Serial Killer
- Tango & Cash

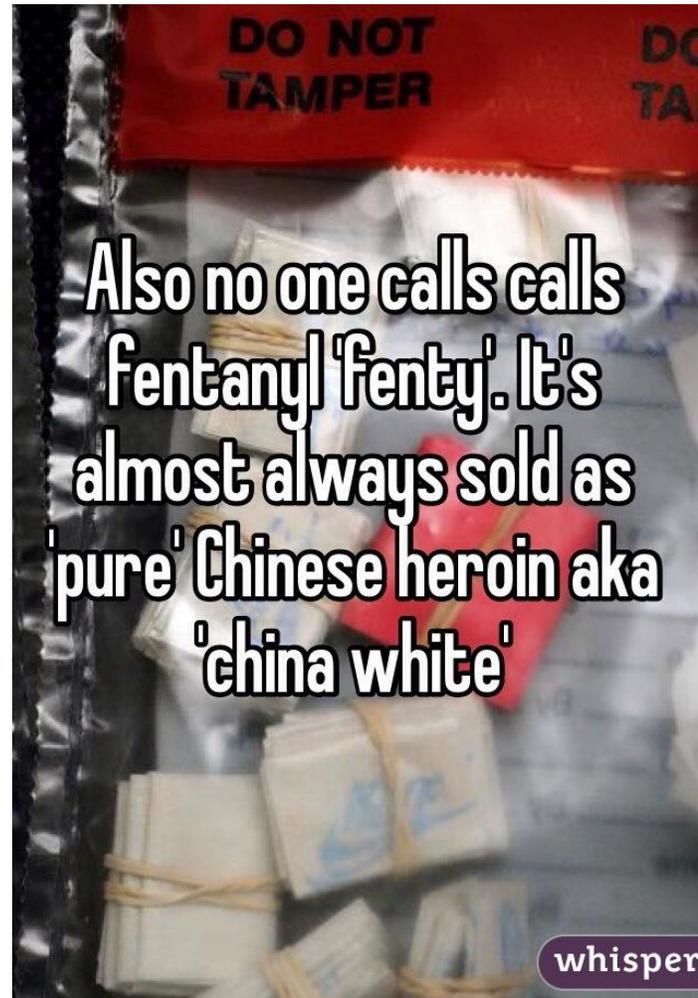
# Street names for fentanyl-laced heroin

- Bud Ice
- China White
- Income Tax
- Incredible Hulk
- Theraflu
- TNT



# What is China White?

- Fentanyl
- Potent and never are getting



# What does Fentanyl look like?

- Fentanyl pharmaceutical products are currently available in the following dosage forms:
  - oral transmucosal **lozenges** known as fentanyl “lollipops” (Actiq)
  - effervescent buccal **tablets** (Fentora)
  - sublingual **tablets** (Abstral)
  - sublingual **sprays** (Subsys)
  - nasal **sprays** (Lazanda)
  - transdermal **patches** (Durag-esic)
  - **injectable formulations**
- Clandestinely produced fentanyl usually found as **powder or in counterfeit tablets**
  - sold alone
  - in combination with other drugs such as heroin or cocaine

## FENTANYL - A DEADLY SYNTHETIC OPIOID IS TAKING ON MANY FORMS



PRESCRIPTION PILLS & POWDER



INJECTED & LACED WITH HEROIN



TRANSDERMAL PATCHES &  
PHARMACEUTICAL LOLLIPOPS



SUBLINGUAL SPRAY



Fentanyl Pills and Crystals

Patches



Fentanyl Powder



“Lollipop”





# Deadly Dose

- 2-3 milligrams of fentanyl can induce respiratory arrest, depression and death
- 2-3 milligrams is the same as 5-7 grains of salt

# Who Supplies the Fentanyl in US?

- **China and Mexico** appear to be the main source countries for illicit fentanyl smuggled into the US for domestic-based processing and distribution
- Seizures indicate...
  - China supplies low volumes of **high-purity fentanyl**
  - Mexico supplies high volume but **lower in purity**

# On the ease with which fentanyl is trafficked into the US

- "It is actually a much easier process, and a much easier product, to insert into the supply chain, than is cocaine or heroin. The laboratory process is much simpler, the transportation is in much smaller packages, and **you can do in an envelope what might take you a truck with a larger product.**"

State Department Specialist [William Brownfield](#)

# Remembering Prince

- Died April 21, 2016
- Age 57
- Accidental opioid fentanyl overdose
- The music icon suffered from hip pain throughout his career



# Tom Petty

Death: accidental overdose  
Oct. 2, 2017



- He had taken several pain medications, including **Fentanyl**, **oxycodone** and **generic Xanax**. Other medications included generic Restoril (a sleep aid) and generic Celexa (which treats depression)
- The coroner's office listed Petty's official cause of death as "multisystem organ failure due to resuscitated cardiopulmonary arrest due to mixed drug toxicity."

# Fentanyl

- Teen use
- Teen sales
- Community impact

## Notre Dame Prep student arrested after student overdoses on pill laced with fentanyl

azfamily.com News Staff  
Posted Feb 11, 2019 2



A 16-year-old Notre Dame Preparatory High School student was arrested for providing the drugs to another student.



Scottsdale police released information on Monday regarding an arrest involving a student at Notre Dame Preparatory High School who was allegedly distributing drugs.



**SCOTTSDALE, AZ (3TV/CBS 5) --** Scottsdale police released information on Monday morning regarding a drug arrest involving a student at Notre Dame Preparatory High School.

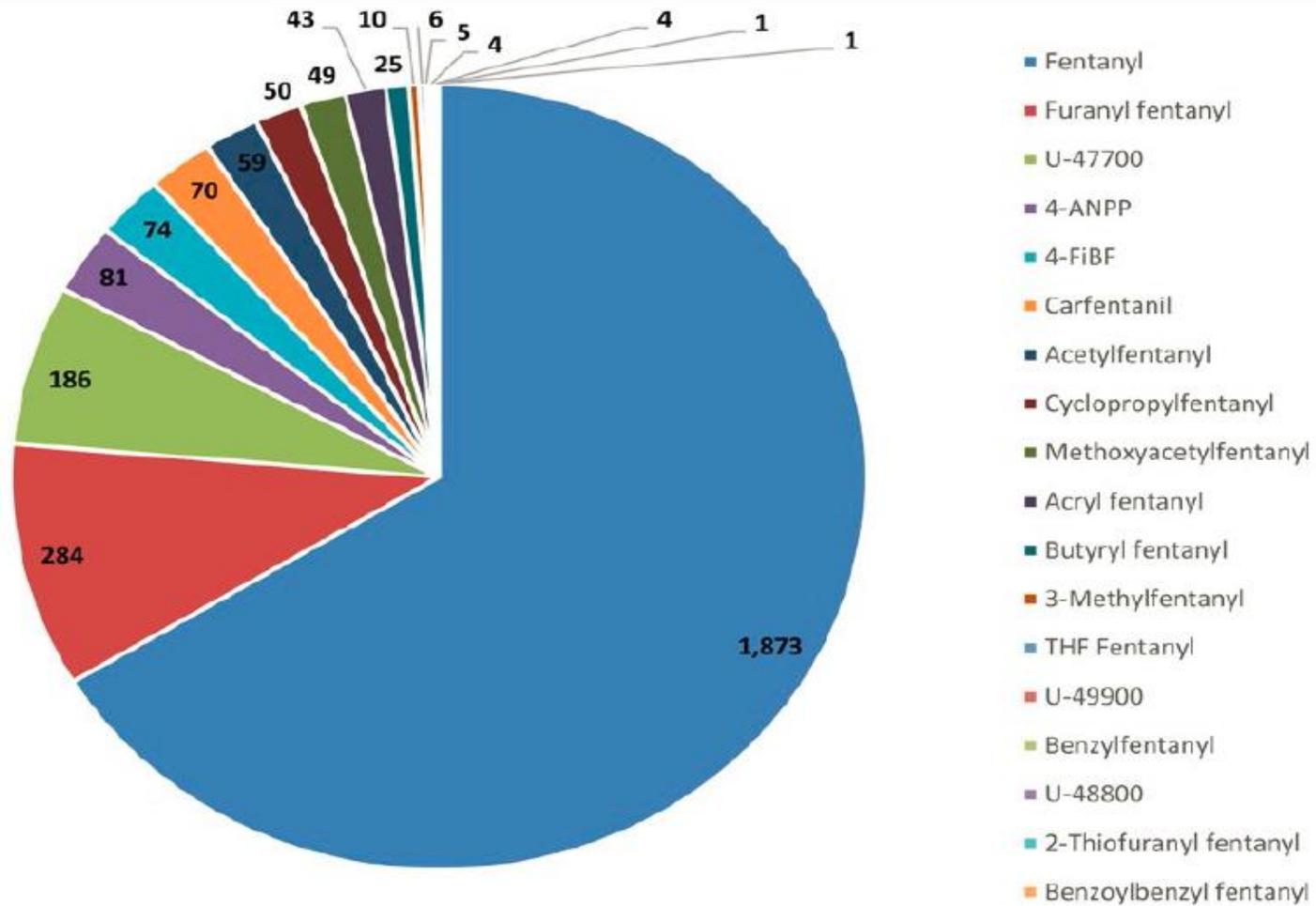
On Feb. 6, police responded to a medical call at a Scottsdale home. When officers arrived, they found a 17-year-old boy unconscious and unresponsive. Police determined his symptoms

### Most Popular

ARTICLES VIDEOS

- » Peoria firefighters facing 'complex' injuries after explosion
- » Police: Father shot 2-year-old son in face with shotgun during fight with boy's mom
- » [Kids design 3D crosswalk to force drivers to slow down in school zones](#)
- » No prison time for school bus driver who admitted to raping 14-year-old girl
- » Child left Maricopa daycare with several bites; daycare releases statement
- » Phoenix PD warns people 'to remain vigilant' after new 'stranger danger' incident
- » Petition calls for PA teacher's firing after writing 'absolutely pathetic' on 2nd grader's worksheet
- » Former Gilbert Fire and Rescue captain accused

**Figure 29. Identifications of Fentanyl, Fentanyl Related Substances, Fentanyl Precursors, and Other Synthetic Opioids, CY 2017.**



Source: DEA

# Fentanyl Related Substances

4-fluoroisobutyryl fentanyl

furanylfentanyl

acryl-fentanyl

acetyl-fentanyl

Carfentanil

3-methylfentanyl

other synthetic opioids such as U-47700

# Acryl-Fentanyl

- Synthesized, which means it's artificially created and has no natural origin
- Man-made
- Created in China, smuggled into US
- Resistant to Narcan??
- Temporary control 1 substance by DEA (May, 2017)
- <http://www.newsweek.com/fentanyl-georgia-naloxone-resistant-synthetic-opioids-acrylfentanyl-629846>

# Furanyl Fentanyl

- Powerful synthetic opiate similar to heroin
- The substance is an analog, or variation, of fentanyl that can be legally prescribed by a doctor but can be 40 to 50 times more powerful than heroin and can be extremely deadly

# Tetrahydrofuran Fentanyl

- Narcan resistant
- Synthetic manufactured overseas
- Not a controlled substance by DEA

# Hostage Crisis in Moscow Theatre

## *Fentanyl?*

- On October 23, 2002, about 50 Chechen rebels storm a Moscow theater, taking up to 700 people hostage during a sold-out performance of a popular musical
- After a 57-hour-standoff Russian special forces raided the theater on the morning of October 26. Later revealed that they had **pumped a powerful narcotic gas into the building**
  - Knocking nearly all of the terrorists hostages unconscious before into the walls and roof and through sewage tunnels
- Most of the guerrillas and hostages were killed during raid



# Fentanyl

- Different molecules
- Hard to detect
  - In medical setting used in IVs
  - Street stuff – all forms, online recipes and potent
- Multiple doses of Narcan needed to revive
- Multiple forms of fentanyl
- Chemical warfare concerns

# Carfentanil

- **100 times stronger than fentanyl**
- Much stronger than heroin
- Carfentanil is used to sedate elephants
- It can be dangerous to even touch it without gloves
- More Narcan needed
  - 3-4 doses vs 1 dose for heroin
- In July, 2016 in Ohio, 176 overdoses in six days
  - currently 20 to 25 overdoses a day
- First Responders = more overdoses, more Narcan, more time spent on each call

# Carfentanil

- West Virginia – June 6, 2017
- What appears to be a Roxicodone pill... after analysis in lab turned out to be highly concentrated carfentanil
- The chemist advised that mere skin contact with the pill could prove fatal to anyone who does not have a high opioid tolerance



# Arizona reports first Carfentanil overdose death

Published April 17, 2018

- Arizona has recorded its first death involving an overdose of Carfentanil, a synthetic opioid that's 5,000 times more potent than heroin, and 100 times more powerful than fentanyl. The DEA announced the death on Monday, and said it occurred in 2017 and involved a 21-year-old male who was found dead in a car outside a Phoenix restaurant.

# Fentanyl Disguised as Black Tar Heroin

- In August 2018, the Tucson Police Department seized 2 individually wrapped bindles
  - .75 grams of a **white crystalline substance**
  - .52 grams of a **dark tar-like substance with a vinegar odor**
- The Tucson Police Department Crime Laboratory identified the white crystalline substance as methamphetamine
  - The dark tar-like substance resembled heroin but was determined not to be heroin
  - After further analysis, the substance was confirmed to be fentanyl mixed with sugar

This is the first seizure reported to the Arizona HIDTA of fentanyl made to resemble black tar heroin



# Emerging Trend: Fake Xanax<sup>®</sup> Tablets Containing Cyclopropylfentanyl, Methamphetamine, and FUB-AKB48



DEA-PHX-BUL-179-18 AUGUST 2018

**Figure 41. Custom Border and Protection Fentanyl Seizures by Southwest Border Corridor in CY 2017, with Percent Change from CY 2016.**



Source: DEA

# Zohydro ER

FDA approved

- High dose hydrocodone narcotic painkiller
- Zohydro contains as much as **50 mg of hydrocodone**
- **Manufactured as a powder in a capsule**, rather than a pill – easy to abuse
- **10 times more powerful than Vicodin**
- US presently consumes 99% of worlds hydrocodone



Zohydro<sup>ER</sup>  
(hydrocodone bitartrate)<sub>Ⓒ</sub>  
EXTENDED-RELEASE CAPSULES

1<sup>st</sup>

Oral, Extended Release  
Hydrocodone without  
Acetaminophen for Treating  
Chronic Pain

PDUFA Date March 1, 2013



# Dsuvia

- The Food and Drug Administration (FDA) has approved a new opioid painkiller that is **10 times stronger than fentanyl**
- **1,000 times more potent than morphine**
  - It will be restricted to limited use only in health care settings, such as hospitals, emergency rooms and surgery centers
- Dsuvia comes in tablet form, in a single-use package

# Newest Drug?

- First one we might all agree on...

**DEPRESSED?  
OVER WORKED?  
JOB SUCK?  
UNAPPRECIATED?  
FAMILY PROBLEMS?  
MONEY WORRIES?**

**Well Here is a pill for YOU!**



**When Life just Blows...  
FUKITOL®!**

# U-47700 a.k.a. Pink, U4

- Synthetic opioid obtained online as “RC”
- 80 deaths cited as U-47700 overdoses in 9 months
  - Drug banned in a dozen states
  - In Park City, Utah case, two 13-year-old children died
- Created in a lab by 20th-century pharmaceutical giant Upjohn
- New opioid blend more potent than morphine but supposedly less addictive
  - Intended to treat severe pain associated with cancer, surgery, or injury, but was never tested on humans

# Gone too early...



Ryan Ainsworth and Grant Seaver

**U-47700**

**7 times  
stronger  
than  
morphine**

**Figure 46. Counterfeit Oxycodone Pills  
Containing Fentanyl and U-47700 Seized  
in Tucson, Arizona.**



Source: Arizona High Intensity Drug  
Trafficking Area

# Grey Death

**Figure 32. Gray-Colored Fentanyl  
Obtained by DEA Buffalo.**



Source: DEA

**Figure 31. "Grey Death" in Chunky  
Rock Form.**



Source: Gulf Coast High Intensity Drug  
Trafficking Area

# “Grey Death”

- Deadly combination of opioids
- Heroin, fentanyl, carfentanil and U4
- Looks like concrete mix
- Deaths in Alabama, Georgia, Ohio and California
- <https://www.cnn.com/2017/05/12/health/grey-death-opioid-drug/index.html>



# 60 Minutes

- <https://www.cbsnews.com/news/deadly-fentanyl-bought-online-from-china-being-shipped-through-the-mail-60-minutes-2019-04-28/>

CBS News / CBS Evening News / CBS This Morning / 48 Hours / 60 Minutes / Sunday Morning



60 MINUTES

EPISODES · OVERTIME · TOPICS · THE TEAM

## DEADLY FENTANYL BOUGHT ONLINE FROM CHINA BEING SHIPPED THROUGH THE MAIL

*Fentanyl is 50 times more potent than heroin and is now available on the internet and can be delivered through the mail*

2019 APR 28 CORRESPONDENT SCOTT PELLEY

FACEBOOK TWITTER REDDIT FLIPBOARD



Fentanyl for sale online

12:40

# Fentanyl in the news...

---

NEWS

## Man dies after vaping liquid fentanyl

By Joshua Rhett Miller

July 3, 2017 | 3:21pm | Updated



Shutterstock

### MORE ON: **DRUG OVERDOSES**

Researchers: Fentanyl deaths up 122% in West Virginia

Herbal supplement linked to string of overdose deaths in US

Fentanyl is now a weapon of mass destruction: DHS

A man in Michigan died over the weekend after apparently using liquid fentanyl in a vaping device.

The victim, a 39-year-old Alpena man, could not be revived by medics who found him in a home in Maple Ridge Township on Saturday — when he and his wife manufactured the synthetic opioid into a vaping liquid after buying it online, [MLive.com reports](#).

The unidentified man passed out after taking a “number of hits” from the pipe and never regained

## Officer Safety: Fentanyl Mixture Appears to be Cannabis

April 26, 2019

Volume 15, Number 6

The Ohio Attorney General's Office Bureau of Criminal Investigation (BCI) is notifying law enforcement of a potential officer safety issue related to a substance recently submitted to the BCI Athens office from the Lawrence County Drug Task Force and tested by the BCI London laboratory. The substance appeared to be Marijuana bud material, however, after testing, it was found to actually be a mixture of Tramadol, Heroin, and Fentanyl. There were also trace amounts of Methamphetamine included in the mixture. A substance similar in appearance has also been reported in Toledo, Ohio and Canada.



Source: Ohio BCI London Laboratory and the Lawrence County Drug Task Force



### About BCI CIU

The Criminal Intelligence Unit consists of Criminal Intelligence Analysts and a Criminal Intelligence Analyst Supervisor. Analysts are located in BCI London headquarters as well as regional offices in Youngstown, Bowling Green, and Richfield. The members receive and fulfill requests from BCI Agents and local, state, and federal law enforcement agencies and task forces. Our mission is to predict and suppress criminal activity in order to prevent, eliminate, or neutralize the activity.

# Vaping 101

- Hit
- Rip
- Juul
- Phix
- Cloud
- #DI4J
- ENDS
- Dripping
- Mods
- Suorin
- Wax
- Dabs
- Goo
- #710
- Budder
- Concentrates
- Oil
- Shatter
- Juice
- Honey



# Popular Vaping Devices among Teens

Current generation of e-cigarettes



JUUL



Suorin Drop



myblu™

# 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** that 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...

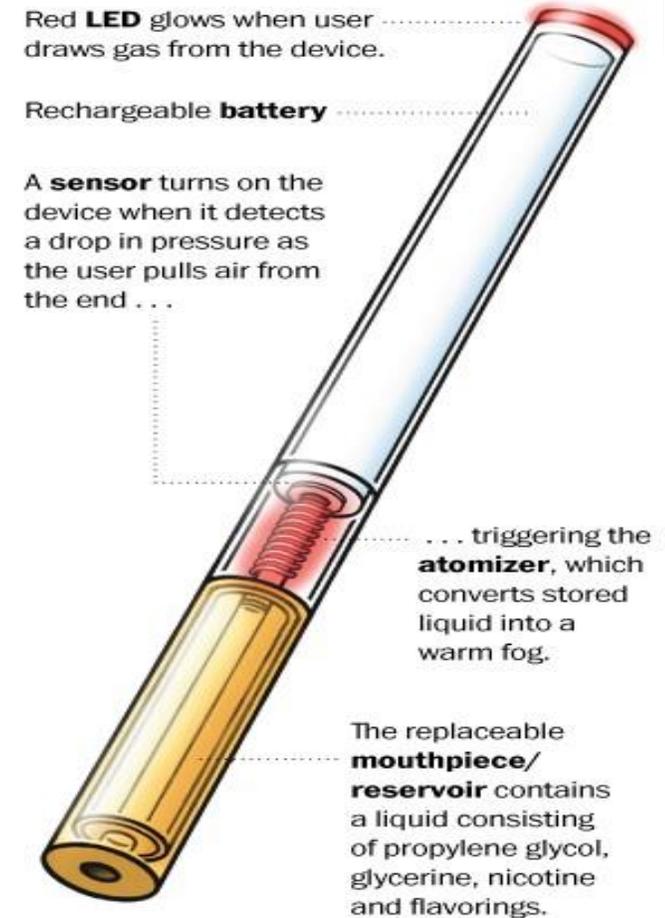
## The electronic cigarette

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

Red **LED** glows when user draws gas from the device.

Rechargeable **battery**

A **sensor** turns on the device when it detects a drop in pressure as the user pulls air from the end . . .



. . . triggering the **atomizer**, which converts stored liquid into a warm fog.

The replaceable **mouthpiece/reservoir** contains a liquid consisting of propylene glycol, glycerine, nicotine and flavorings.

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

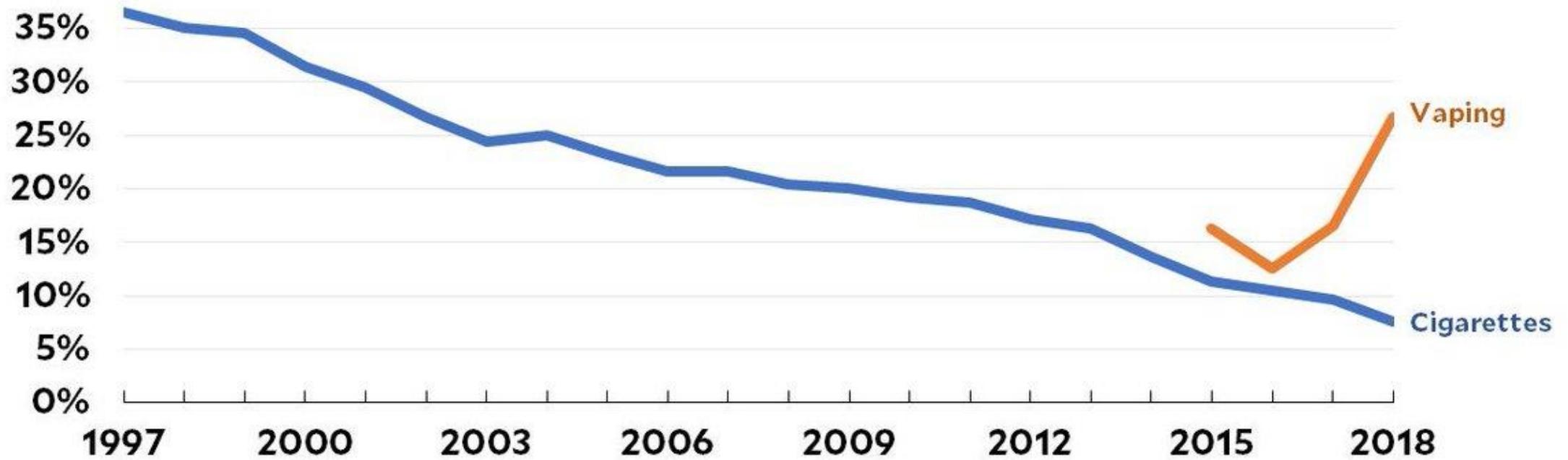
PATTERSON CLARK/THE WASHINGTON POST

# 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

# Trends in Vaping and Cigarette Use

## 12th Graders



Source: "National Adolescent Drug Trends in 2018"

Mother Jones

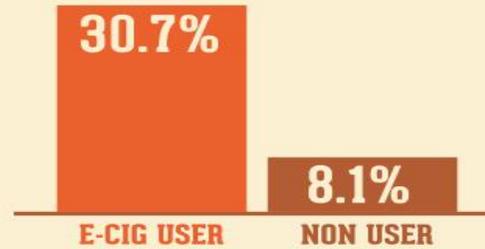
# Teen Vape Use

- 36% of 12<sup>th</sup> graders had tried some form of vaping in 2017
  - Compared to 4% of 12<sup>th</sup> graders smoked cigarettes in 2017
- 10% of 8<sup>th</sup> graders
- 14% of 10<sup>th</sup> graders



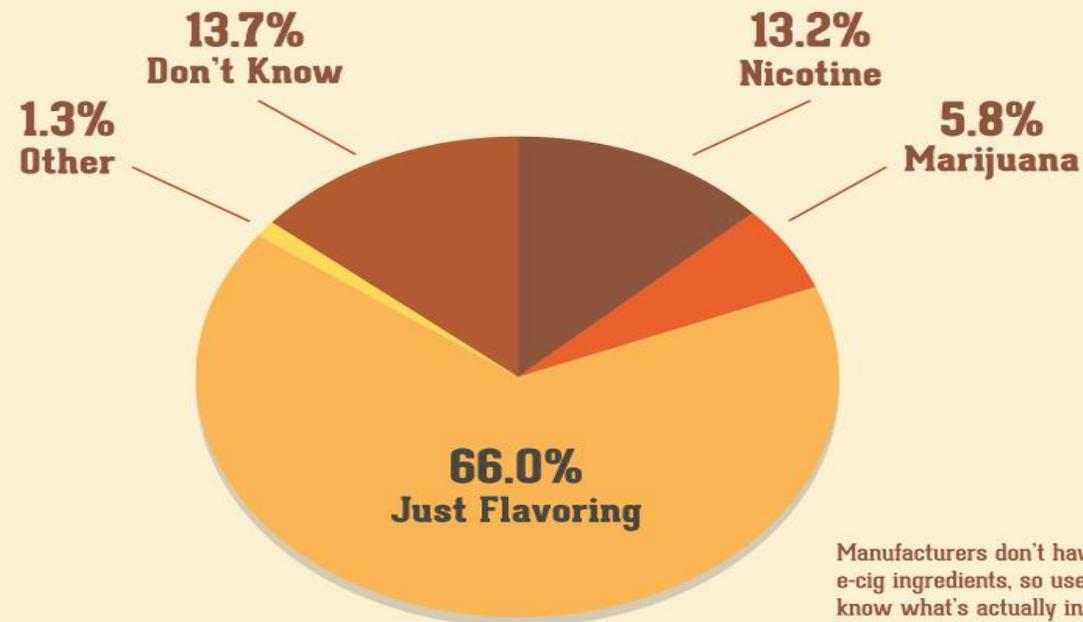
## TEEN E-CIG USERS ARE MORE LIKELY TO START SMOKING.\*<sup>2</sup>

### Start Smoking Within 6 Months



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

## WHAT DO TEENS SAY IS IN THEIR E-CIG?<sup>3</sup>



Manufacturers don't have to report e-cig ingredients, so users don't know what's actually in them.

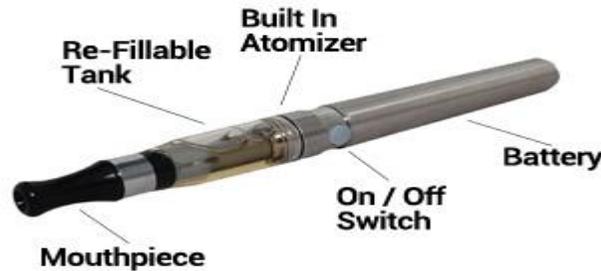
# What does it look like?



Vaping pens



Cartridge Style E-Cigarette



Re-Fillable Tank Style E-Cigarette

Regular Cigarettes, Electronic Cigarettes, Vaporizer Pens

# **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



E-liquid



Food product



E-liquid



Food product

M I L W A U K E E  
**JOURNAL SENTINEL**

**“JUULing is the New Teen Vaping Fad Taking Over School Bathrooms”**

*The New York Times*

**“‘I Can’t Stop’: Schools Struggle With Vaping Explosion”**

THE WALL STREET JOURNAL.

**“Schools and Parents Fight a Juul E-Cigarette Epidemic”**

**CNN**

**“Vaping Now An Epidemic Among US High Schoolers”**

TobaccoFreeKids.org



JUUL

VAPORIZED

JUUL



JUUL

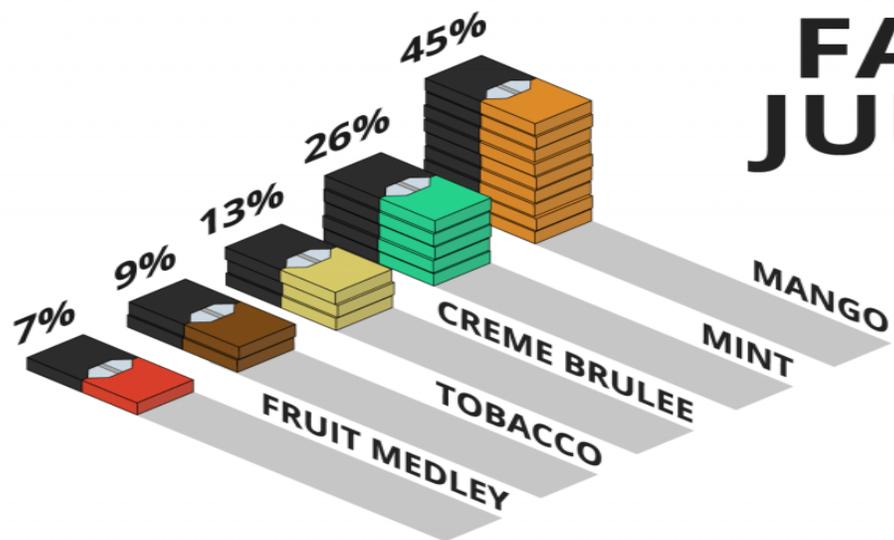
VAPORIZED

JUUL



VAPING360

# FAVORITE JUUL PODS POLL



\*NOTE: The poll was done on vaping360.com and the results reflect more than 1000 votes.  
 All images, artwork, text and graphics are the property of Vaping360. All rights reserved.



## Behind the JUUL

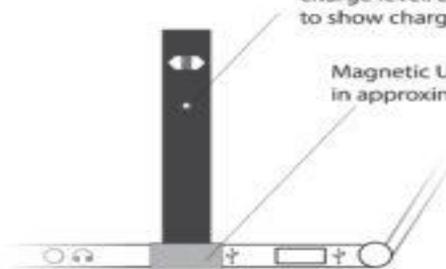
The information below offers a description of the parts of a JUUL.

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

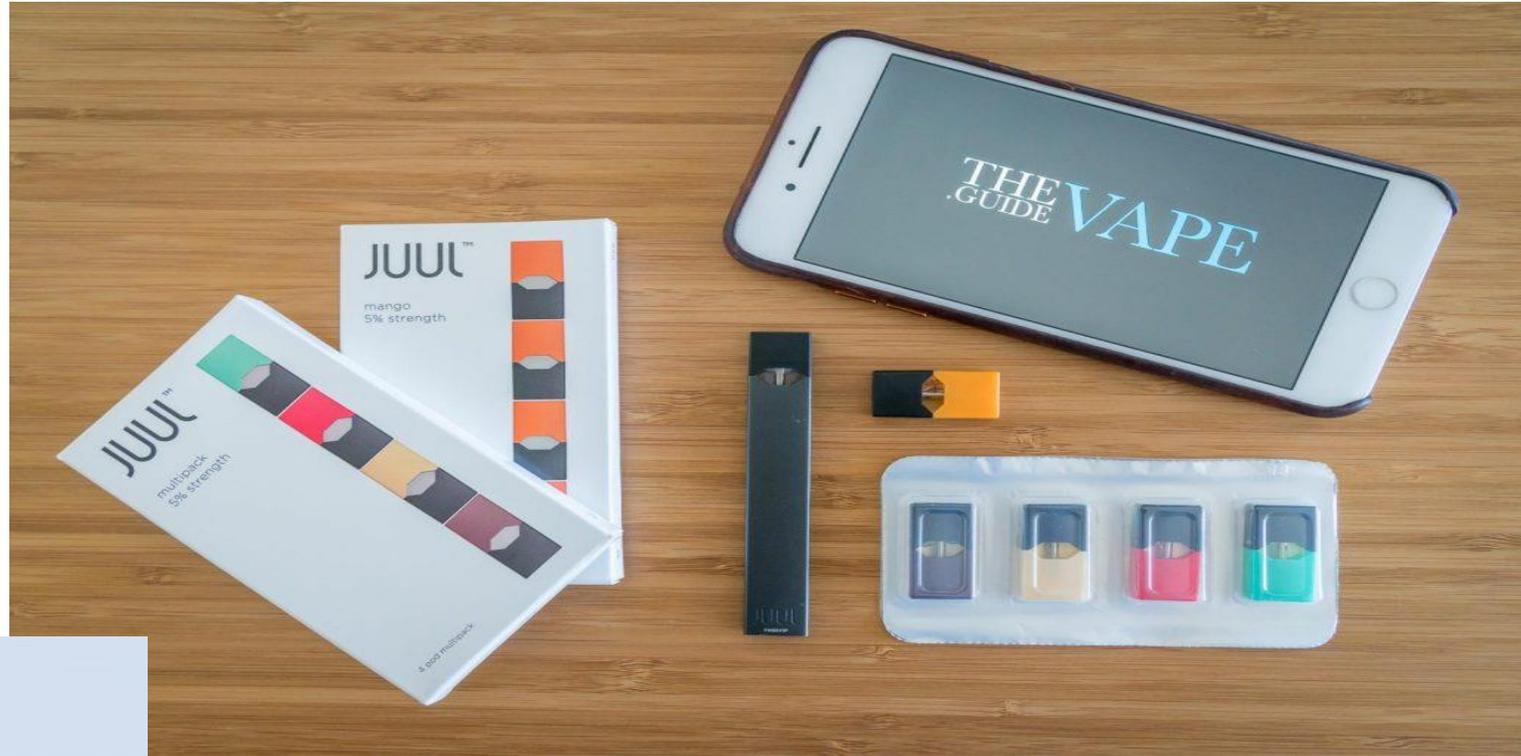


**Circular Indicator:** Glows to reflect charge level. Double tap on device to show charge level.

**Magnetic USB:** Fully charges JUUL in approximately one hour.



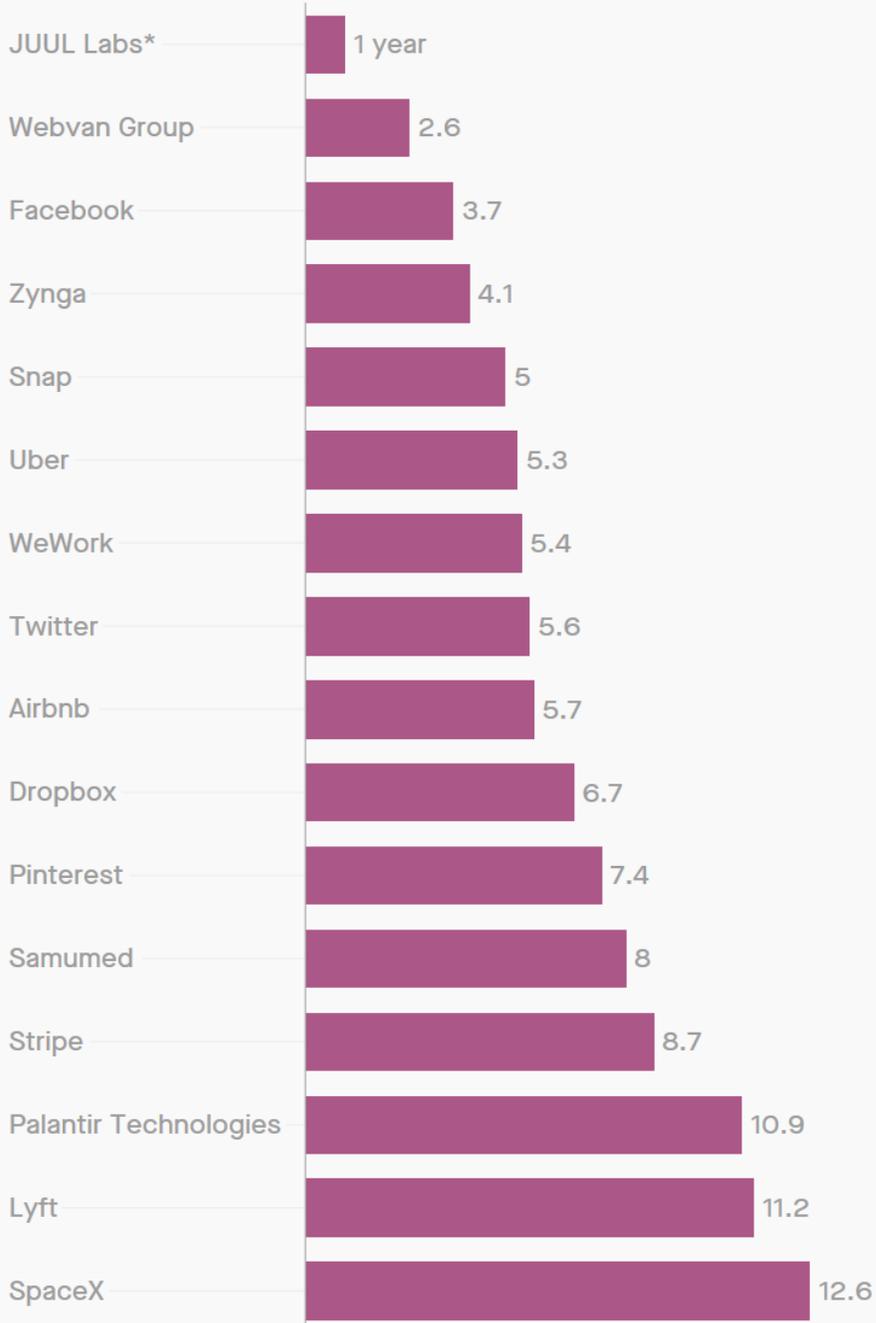
# Juul – The iPhone of e-cigs



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

- JUUL, accounted for [76% of the e-cigarette market](#) 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

Years required for startups to raise first \$10 billion+ venture round



# JUUL Worth Billions... Fast!

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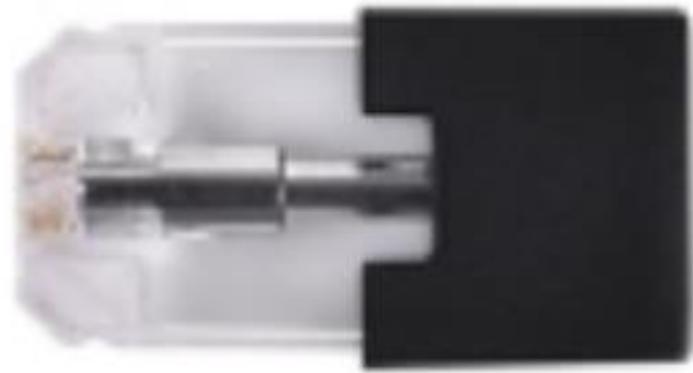


## Newest Juul compatible Pod System Vape Battery Match Box

- ▶ Model name: Match Box
- ▶ Size: 54.0\*29.5\*8.5 mm
- ▶ Pen Battery Power: 250 mAh
- ▶ Material: Aluminum
- ▶ Color: Black, silver, blue, red or custom
- ▶ Rechargeable: Micro USB charger
- ▶ Fit for Juul pods
- ▶ Variable Voltage: 3.4V-3.7V-4.2V
- ▶ Warranty: 6 months
- ▶ OEM / ODM: Welcomed

 **Contact Now**





# JUUL Alternatives: Top 4 JUUL-like Vapes



JUUL is the most popular e-cigarette on the market, but is it the [best e-cigarette on the market](#)? Many people seem to think so, but there is a good chance that they have never tried any of the following JUUL-like vapes.

Some of these vapes are similar to JUUL and have the same strengths—like its portability and accessibility. But none of its weaknesses—like its use of a proprietary charger, the expensive non-refillable JUUL pods, and the intensely strong vaping experience.

So, if you don't want to follow the crowd, try out any one of these JUUL alternatives.

## Top 4 JUUL-like vapes

1

[KandyPens Rubi](#)

2

[Myblu E-cigarette](#)

## KandyPens Rubi



The [KandyPens Rubi](#) is the JUUL's top competitor because it has the portability and convenience of the JUUL, but it allows you to use any type of e-liquid you want. You can even use oil concentrates.

What this means is that the Rubi is one of the most versatile e-cigarettes available. And one of the best. You can take a look at the [Rubi vs JUUL comparison](#) for a closer look at how these

two e-cigs stack up against each other.

The Rubi is more cost effective, and more versatile than the JUUL, and some would even say it's a better device overall.

**\$49.95 from KandyPens**

TVG25 for 25% off

[Buy Now](#)

## Myblu E-cigarette



The [myblu e-cigarette](#) also uses pre-filled pods like the JUUL, but they are much cheaper, at just \$10 per package. Those pods are available in a wide array of flavors and in different nicotine levels, so they offer an impressive level of variety, unlike JUUL.

As for the myblu e-cig itself, it is highly affordable, has a nice rounded, stealthy design, and is as easy to use as you would expect for an e-cigarette. However, the amount of vapor it produces is anything but stealthy, so if big clouds are your thing, then the myblu should also be your thing.

**\$19 from Myblu**

[Buy Now](#)

## KandyPens Feather



The [Feather](#) is the other e-cigarette from KandyPens, and while the Rubi is a general audience device, the Feather is more of a niche vape because it specializes in using nicotine salts.

While nic salts are its forte, the Feather can also use regular e-liquids, so it has a pretty wide appeal.

The unique design of the Feather is its other standout feature, it looks nothing like any other e-cig out there, though it is as portable, convenient, and easy to use as the other e-cigs out there. If you like nic salts, but find the JUUL pods too strong, then give the Feather a try so that you can use whatever nic salts you want.

**\$29.95 from KandyPens**

TVG25 for 25% off

[Buy Now](#)

## VapeDynamics Cora



The [Cora](#) is one of the more versatile e-cigs on the market because it can use both e-liquids and oil extracts.

There are some small downsides to the Cora, one is that the filler holes are smaller than average and require the use of the custom dropper included in the package. The other drawback is that you need to hold down the power button while you inhale, whereas all the other e-cigs are draw activated.

Even with those imperfections, the Cora is one of the better JUUL alternatives because of its dual-use nature and the freedom to use whatever e-liquid you want.

**\$39.99 from VapeDynamics**

TVG10 for 10% off

[Buy Now](#)



## Xvape XLUX Vixen Lipstick Wax Vaporizer Kit

by XVAPE

☆☆☆☆☆ No reviews

Save 20% ~~\$ 99.99~~ \$ 79.99

The XLUX Vixen is the newest addition to the Xvape family. This is the first wax vape pen designed primarily with women in mind. The Vixen is compact and is built to look like a nice lip stick container for extremely covert carrying and usage. The kit comes with a Dual Quartz Titanium coil pre-installed, as well as a Ceramic Plate coil in the box. The Vixen is powered by a built-in 900mAh battery that uses micro USB charging. There are 3 different temperature settings to allow you to find the perfect match. This amazing design, coupled with Xvape's legendary build quality, makes the Vixen the perfect choice for those who value discretion.

### Features:

- Discreet Design
- Dual Quartz and Ceramic Plate Coil Options
- 3 Temperature Settings

### Specifications:

- Battery Capacity: 900mAh
- Charge Type: Micro USB
- On/Off: Click Button 5 Times
- Low Voltage Warning: Light Flashes 10 Times
- Short Warning: Red Light Will Flash 3 Times
- Colors: Black, Pink

### In The Box:

- 1 XLUX Vixen Vape Pen
- 1 Dual Quartz Titanium Coil (Pre-Installed)
- 1 Ceramic Disc Coil
- 1 Screw Top Plastic Container With Silicone Liner
- 1 Tool
- 1 Micro USB Charging Cord

Replacement [Coils](#) are available.



# Dangerous Product for Youth

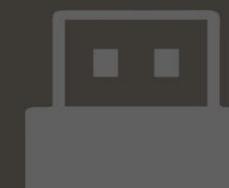
- Over 7,000 fun flavors
  - Cotton candy, gummi bear, strawberry
- Devices look like pens, USB drives, phone chargers, etc.
- One juul pod of nicotine = entire pack of cigarettes
- #doit4juul
- #DI4J
- <https://www.instagram.com/p/BfwV6IEh1pC/>
- <https://www.instagram.com/p/BfwV6IEh1pC/>

**63%**

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



[truthinitiative.org](http://truthinitiative.org)



# 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)



# 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.



virginia  
tobacco

QTY



cool  
mint

QTY



fruit  
medley

QTY



creme  
brulee

QTY



mango

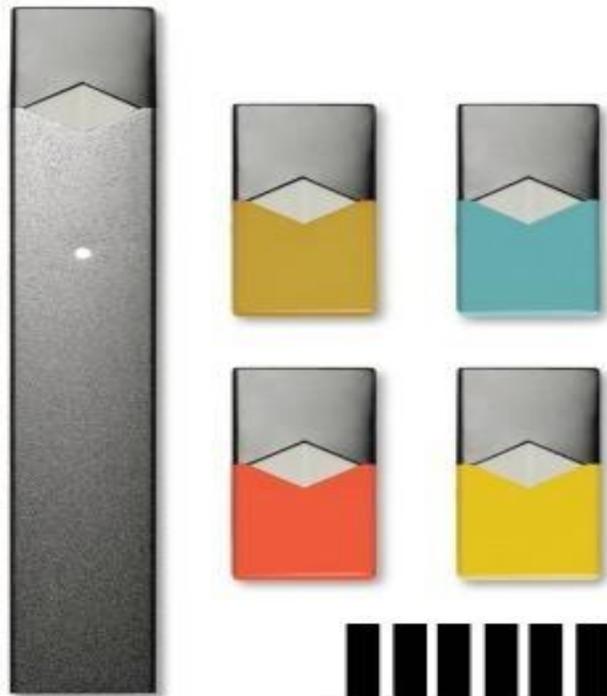
GET NOTIFIED



**NEW FLAVOR**  
**CLASSIC MENTHOL**



# JUUL "Juuling" #JUULVAPOR



VAPING CHEAP .COM

# JUUL



**JUUL Starter Kit \$37.49**



# 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 ultra-portable 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

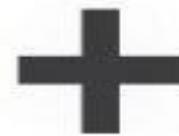


**suorin**AIR  
"SMALLER THAN A CREDIT CARD"  
2ML OPEN-POD SYSTEM  
MICRO-USB CHARGING

NC.



**ANY**  
30 ml Bottle



AVAILABLE IN  
**25 mg**  
**50 mg**



**\$30**

# Suorin Air Vape Kit - V2

\$29.99

★★★★★ (1 review) [Write a Review](#)

SKU:

SUORIN-A17ABE26

Weight:

6.00 Ounces

Shipping:

Free Shipping



---

Colors: Required

- Black
- Silver
- Navy Blue

# Suorin Air



# NIC SALT

VS

# FREE BASE

Contains benzoic acid

Faster absorption

Low to super high strength options

Satisfying in high concentrations

Less flavor complexity

Less cloud production

Ideal for smokers and MTL vapers

More expensive

No additive

Slower absorption

Low to medium strength options

Harsh in high concentrations

More flavor complexity

More cloud production

Suitable for most vaping styles

Less expensive



# What are Nicotine Salts?

---

Nicotine Salt, also known as **Nic Salt**, is a type of processed nicotine used in vape juice. Many vapers find nicotine salts more satisfying than regular "freebase" nicotine.

Nicotine Salts | [vaping.com](https://vaping.com)  
[vaping.com](https://vaping.com)

Nicotine salt is the form of nicotine found in **tobacco leaves**. Unlike the nicotine ordinarily used in e-juice, these salts aren't **just nicotine**; they're compounds containing nicotine and another organic component.



**Blue Slushee**  
Propaganda Salts

★★★★★ 11 REVIEWS

\$19.99



**Blue Razz Salts 30ml**  
Air Factory

★★★★★ 3 REVIEWS

\$15.99



**Limited Edition Mint Salts 30ml**  
Air Factory

★★★★☆ 1 REVIEW

\$15.99



**Fresh Pressed Lava Luau Salts 60ml**  
California Grown

★★★★★ 1 REVIEW

\$13.99



**Sweet Mint Salt 30ml**  
The Milkman

★★★★★ 1 REVIEW

\$13.95



**I Love Salts Blue Raspberry**  
Mad Hatter Juice

★★★★★ 1 REVIEW

\$17.99



**Strawberry Watermelon Bubbegum on Salt 30ml**  
Candy King

★★★★★ 1 REVIEW

\$14.99



**Pink Punch Lemonade Salts (2 x 30ml)**  
TWST

★★★★☆ 2 REVIEWS

\$21.99



**Melon Lush Salts 30ml**  
Air Factory

★★★★★ 3 REVIEWS

\$15.99



**Fresh Pressed Fruit Finale Salts 60ml**  
California Grown

★★★★★ 1 REVIEW

\$13.99



**Illuminati**  
Propaganda Salts

★★★★★ 4 REVIEWS

\$19.99



**Cookie Butter Salts 30ml**  
Propaganda Salts

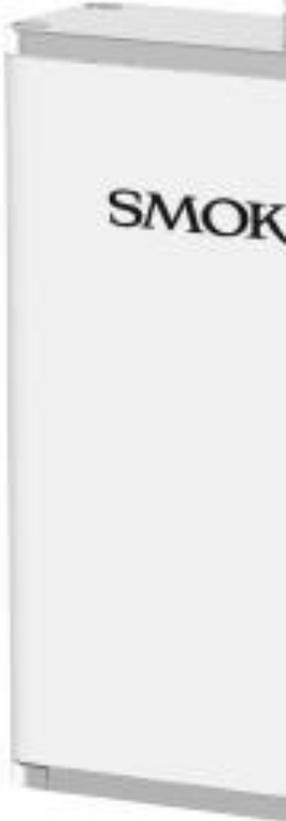
★★★★★ 5 REVIEWS

\$19.99

## 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

---



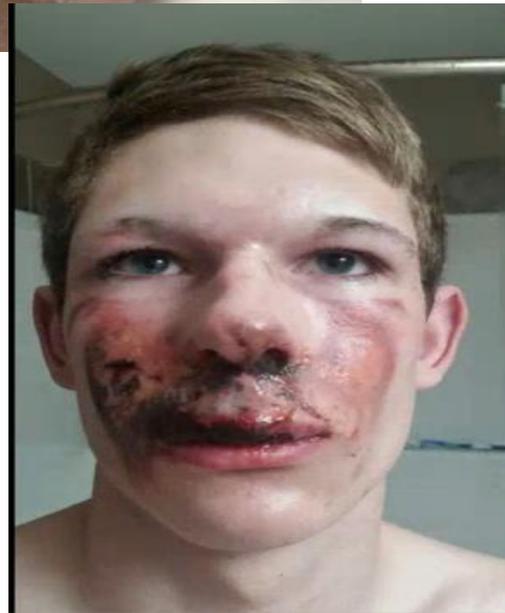
# Modification...



# E-cig explosions



16 year old teen suffers 2<sup>nd</sup> degree burns to face



# Teens and Vape explosions



INC.

RE



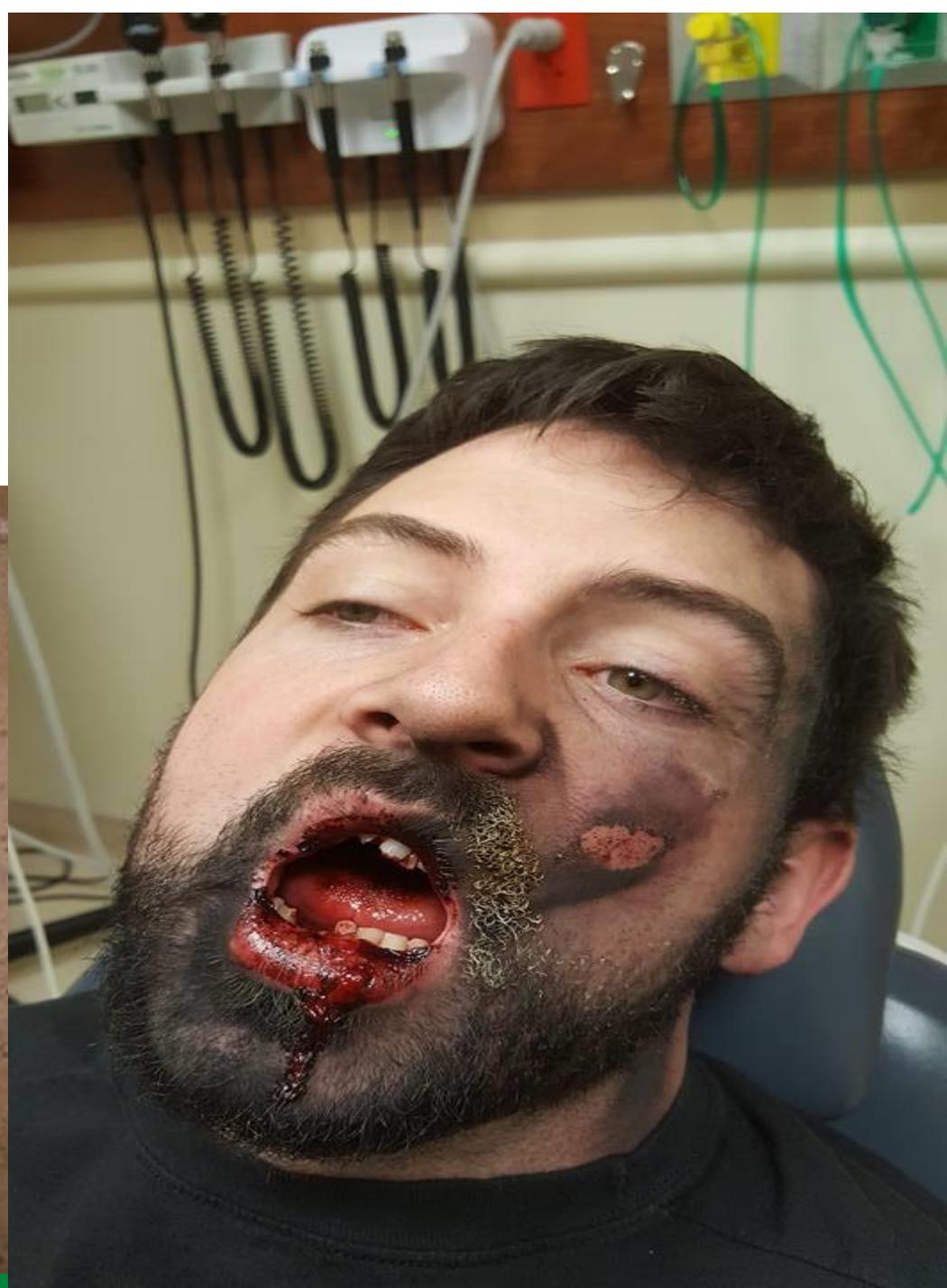
This is it I got stitches and wires on my bottom jaw





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

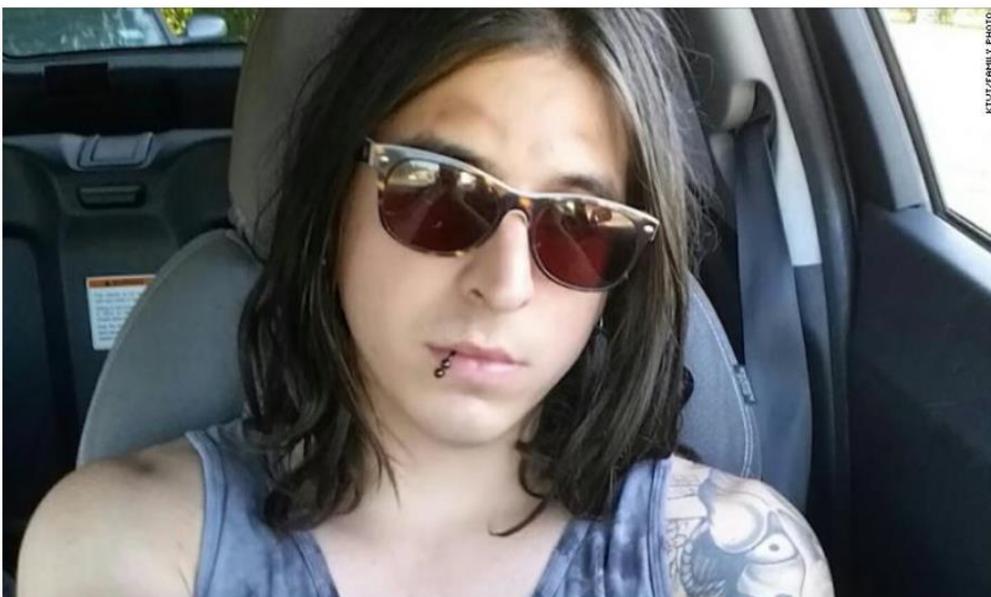
- A man in Florida **died when his vape pen exploded, firing two pieces of the device into his head before his house set on fire, leaving his body heavily burned**, (medical examiners report has said)
- The death is thought to be the 1st in the U.S. directly related to the use of one of the popular devices
- 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

# 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



Woman's body found bound in a suitcase on the side of a road



US arms sold to Saudi Arabia and UAE end up in wrong hands



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Type here to search



5:11 PM  
2/11/2019



# 5 Tips to help avoid vape battery explosions

## 1. Consider using vapes with safety features

such as firing button locks, vent holes, and protection against overcharging.



## 2. Keep your vape covered.

Don't let it come into contact with coins or loose batteries in your pocket.

## 3. Never charge your vape with a phone or tablet charger.

Always use the charger that came with it.

## 4. Don't charge your vape overnight

or leave it charging unattended.

## 5. Replace the batteries if they get damaged or wet.

If your vape gets damaged and the batteries are not replaceable, contact the manufacturer.

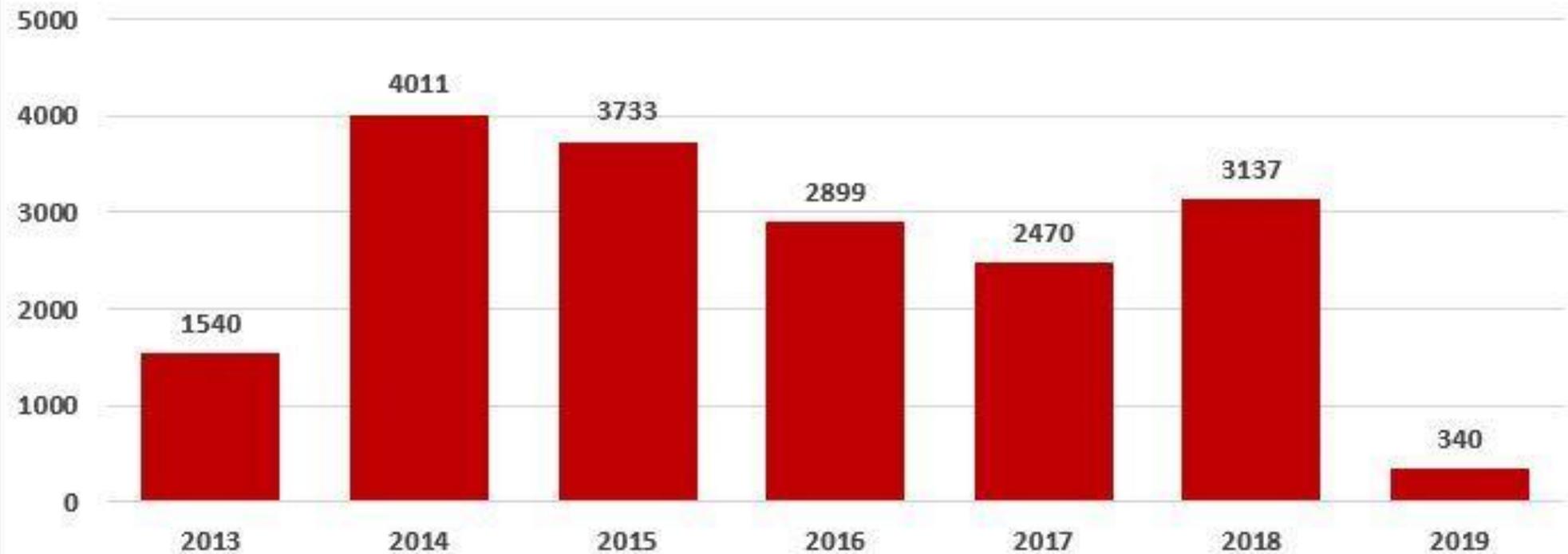
# Electronic Cigarettes and Liquid Nicotine Exposures - AAPCC

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 May)	1,722

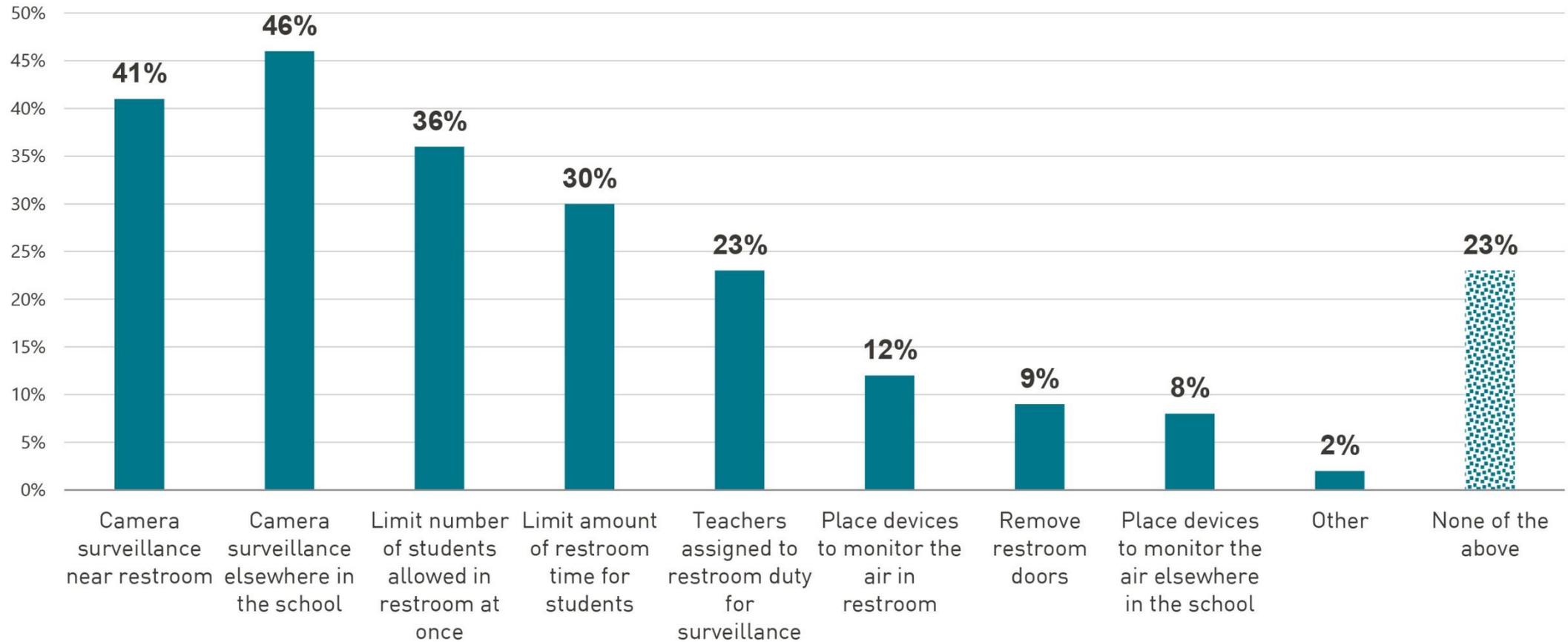
More than half of these reported exposures have occurred in young children under the age of 6

## Electronic Cigarette and Liquid Nicotine Cases

All Ages



# What have schools done about e-cigarettes?



# Warning – Which is Which?





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

## Fast Fact:

Not all CBD vape products are created equally. You have to choose your oil, cartridges, and brands very carefully.



# CBD Vape Pens



## Best CBD Vape Pen 650 mAh

- ▶ Model name: Tube CBD Vape Pen
- ▶ Size: 10.5\*130 mm (D\*L)
- ▶ Cartridge Volume: 1 ML
- ▶ Resistance: 1.4ohm
- ▶ Oil hole Size: 4\*2.0mm
- ▶ Pen Battery Power: 650 mAh
- ▶ Material: Pyrex Glass + stainless steel+ Ceramic
- ▶ Heating Element: Vertical Ceramic Core
- ▶ Mouthpiece: Ceramic round
- ▶ Suit for: CBD Thick oil
- ▶ Color: Black, white, blue, red, blue or custom
- ▶ Custom: OEM / ODM Welcomed





# 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**



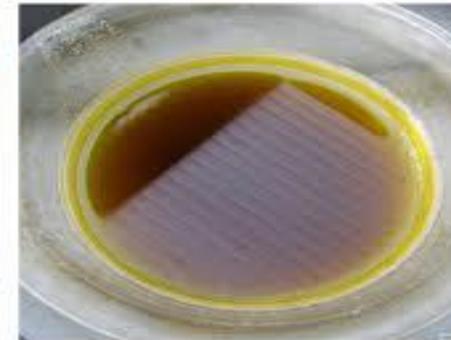
# THC Potency

- 1960-1990s – 2-3% THC (leafy green)
- Today the oil or concentrate can be anywhere from **70-90% pure**
- Quicker high



# The BHO Process





[www.dailydabs420.com](http://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  
content 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

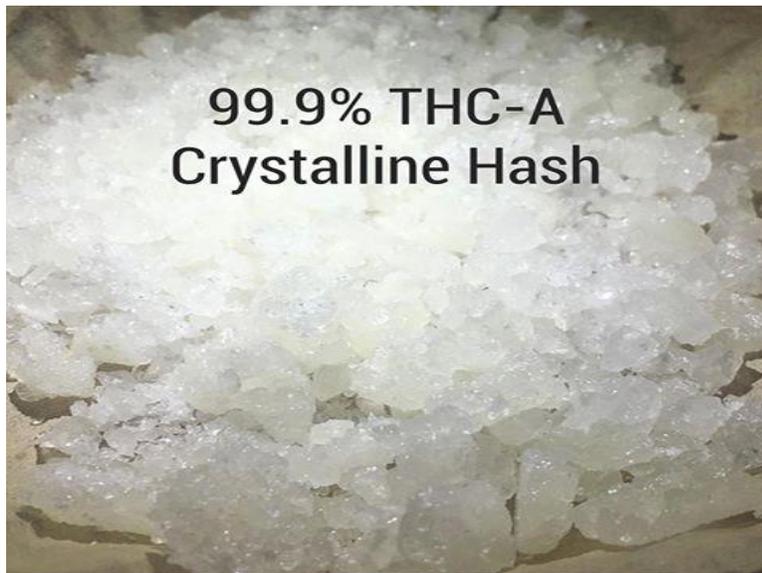
- Vaping wax with a **dab pen** or **e-Nail** is the gold-standard in using extracts because it induces a **clear, clean *high***, and does not produce any smoke
- **Marijuana wax and oil usually contains about 80% THC** compared to **top-shelf dry herb**, with a mere **20%**



<https://thevape.guide/vaping/extract/>

# 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%



# 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





NC.





# 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.

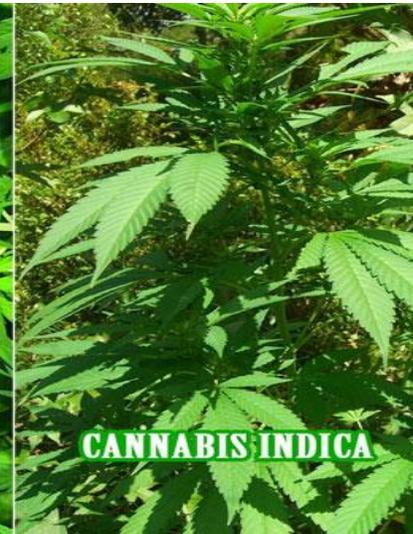
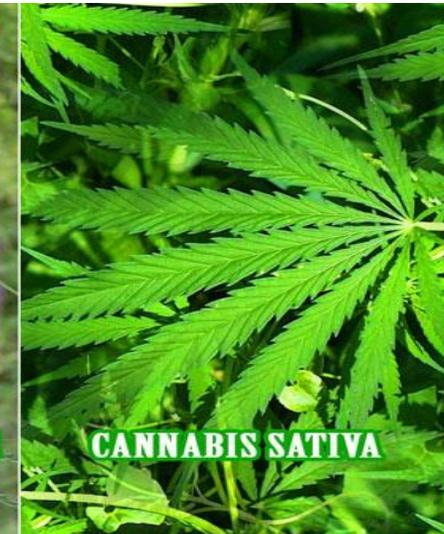
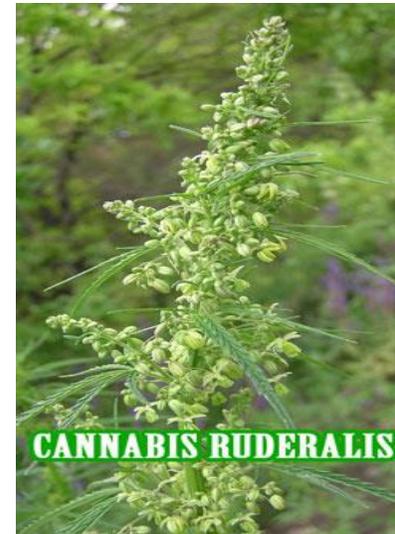
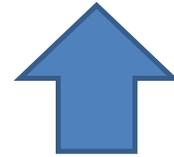
# Then

- 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

# Average **THC** and **CBD** Levels in the US: 1960 - 2011

Mehmedic et al., Potency Trends of D-9 THC and Other Cannabinoids in Confiscated Cannabis Preparations from 1993 to 2008, J Forensic Sci, September 2010, Vol. 55, No. 5. See <http://home.olemiss.edu/~suman/potancy%20paper%202010.pdf>.

MARIJUANA POTENCY



# Resources

- **National Suicide Prevention Lifeline**
  - 1-800-273-8255
- **Unscript Adolescents**
  - 480.502.7000
- **SAMHSA** (Substance Abuse and Mental Health Services Administration)
  - [www.samhsa.gov](http://www.samhsa.gov)
- **AAPCC** (American Association of Poison Control Centers)
  - 1.800.222.1222 and [www.aapcc.org](http://www.aapcc.org)
- **NIDA** (National Institute of Drug Abuse)
  - [www.drugabuse.gov](http://www.drugabuse.gov)

# Resources

- <https://www.tobaccofreekids.org/>
- [www.aapcc.org](http://www.aapcc.org) or 1.800.222.1222
- [https://e-cigarettes.surgeongeneral.gov/documents/2016\\_SGR\\_Full\\_Report\\_508.pdf](https://e-cigarettes.surgeongeneral.gov/documents/2016_SGR_Full_Report_508.pdf)
- [https://www.cdc.gov/tobacco/basic\\_information/e-cigarettes/index.htm](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](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)



## 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?

What is Vaping? .....	3
How Does Vaping Work? .....	3
What Do Vape Devices Look Like? .....	3
What Is Being Vaped? .....	3
What Is Vaping's Appeal? .....	4
Is Vaping Safe? .....	5
Marijuana and Vaping.....	7
How Is Vaping Regulated? .....	8
What Should Parents Know .....	8
What Are the Signs of Vaping?.....	8
What Can Parents Do to Safeguard Against Vaping?.....	9
What to Say When Your Teen Asks:.....	10
Resources.....	12



Teen using a JUUL

**Nearly 1 in 3**  
 high school  
 seniors tried  
 vaping in the  
 past year.

Monitoring the Future, 2017

© Partnership for Drug-Free Kids, Fall 2018

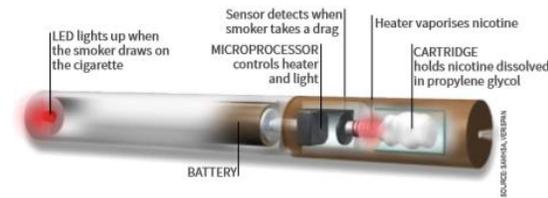
- <https://drugfree.org/parent-blog/how-to-talk-with-your-kids-about-vaping-guide/>

## 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 Jeweljing), 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.

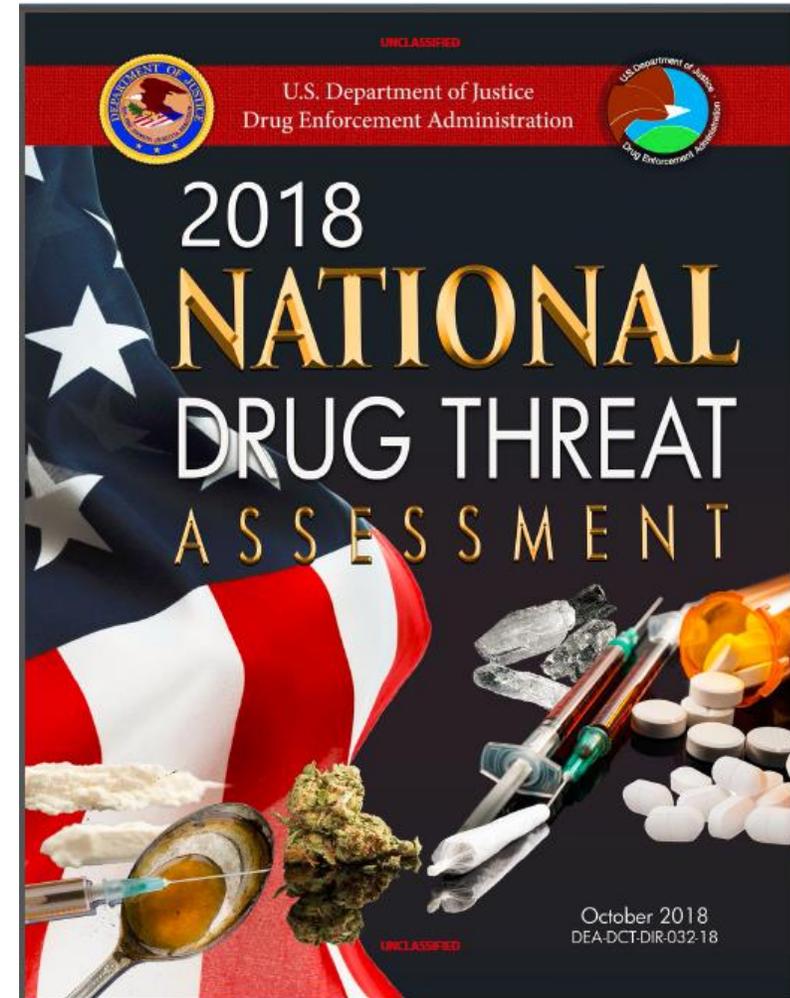
# The Truth Initiative

- <https://truthinitiative.org/>
- To access the new e-cigarette quit program...
- Text “QUIT” to  
**(202) 804-9884**



# DEA – NDTA – Oct. 2018

- <https://www.dea.gov/sites/default/files/2018-11/DIR-032-18%202018%20NDTA%20final%20low%20resolution.pdf>



# Thoughts or Questions?

- People boycott food and clothes
  - Animals
  - Child labor
  - Working conditions
- Why not drugs?
  - Torture
  - Violence
  - Families, including children, murdered
  - Corruption
  - Fraud



# Don't waste time...

- Learn something new?
- 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](mailto:ssiete@cbridges.com)

602.377.4591

THANK YOU