

# First Responder Awareness to Opiate and Fentanyl Overdoses

Josh Magaha Kansas City Kansas Fire Department

# Welcome!



Firefighter FAO/DRIVER Josh Magaha  
Kansas City, Ks Fire Dept.  
HAZMAT TECH  
Fire Services 25+ years



# What is Fentanyl?

Fentanyl is a powerful synthetic opioid that is similar to morphine but is 50 to 100 times stronger.

Fentanyl is used to treat patients with chronic pain that are tolerant to opioids.

Fentanyl is used for breakthrough pain in cancer patients.

Fentanyl is only prescribed by a Doctor!

**DO NOT TAKE A PILL IF YOU DO NOT KNOW WHAT IT IS OR  
WHERE IT CAME FROM!!**



# How Serious is? It not happening here?

## Kansas police find thousands of pills containing fentanyl during search of home

Friday, June 3rd 2022, 12:11 PM CDT

**ONE PILL CAN KILL**

**Police warning public after pills laced with fentanyl found in KCK home**

**Oak Park teen dies in fentanyl-laced overdose**

**Fentanyl killed their boys. Now these KC area parents are on a quest to save lives**

BY [LISA GUTIERREZ](#)

UPDATED APRIL 25, 2022 12:03 PM



**'Talk to your kids:' Officials warn of danger after Liberty fentanyl case**

# KCK Fent Stats...

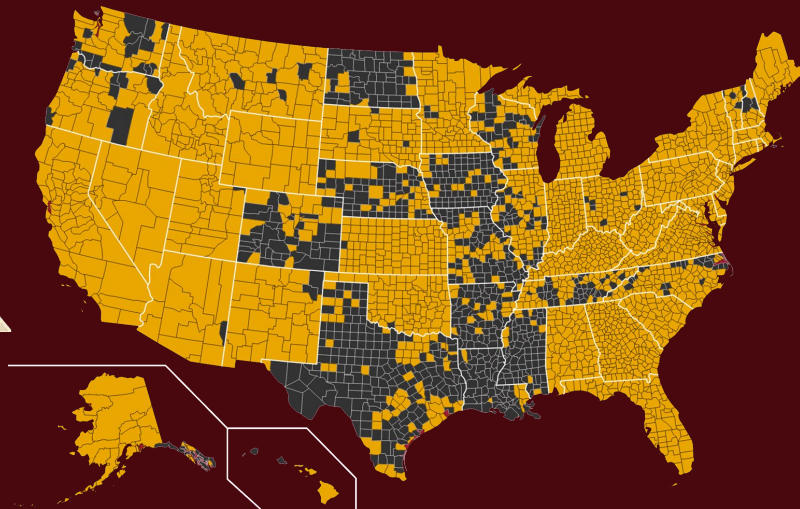
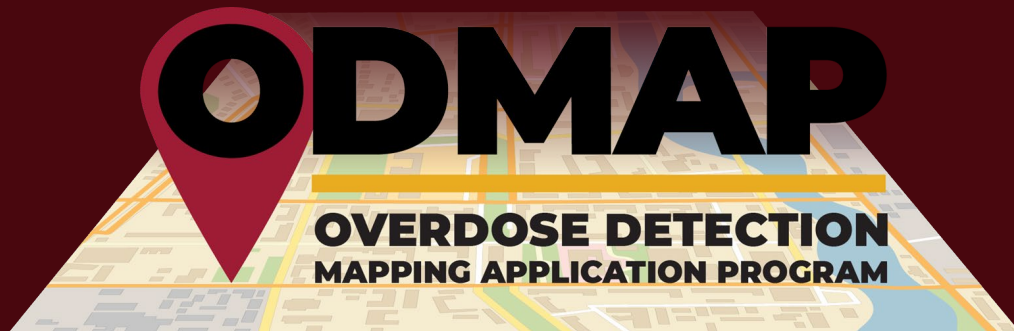
We began tracking overdoses in collaboration with KCKPD and KS BEMS in late December 2021.

According to the 2023 data entered KCKFD EMS database, KCKFD has responded to **1270 Overdoses**/Poisonings in the county.

2023 administered Narcan in **292** of those cases and **41** were incidents cardiac/respiratory arrest w/Narcan Administration.

2024 Dec. **958 Overdoses**/Poisonings **180** Narcan Administrations given by Fire ( total) **16 Multiple patient calls**

267 accidental OD, 69 Pediatric 59 intentional 220 Narcan admins by public/PD or passerby








[www.odmap.org](http://www.odmap.org)

# What is a lethal dose?

Opioid Crisis

## Lethal Opioid Doses

Opioid	FDA	Relative Potency	Lethal Dose
Morphine	✓	1x	1 Pea 
Heroin	✓	2x	1 Sunflower Seed 
Fentanyl	✓	100x	1 Sesame Seed 
Sufentanil	✓	500x	1 Grain of Sand 
Carfentanil	✗	10,000x	0.5 Grains of Salt 

 Clearvue Data

Fentanyl 2.55mg

Carfentanil 0.02mg



Fatal dose of fentanyl  
(2 mg or 2000 mcg)



Fatal dose of carfentanil  
(0.02 mg or 20 mcg)

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# How many lethal doses?



300-400 lethal doses if Fentanyl  
40,000 lethal doses if Carfentanyl



350,000 lethal doses if Fentanyl  
35,000,000 lethal doses if Carfentanyl

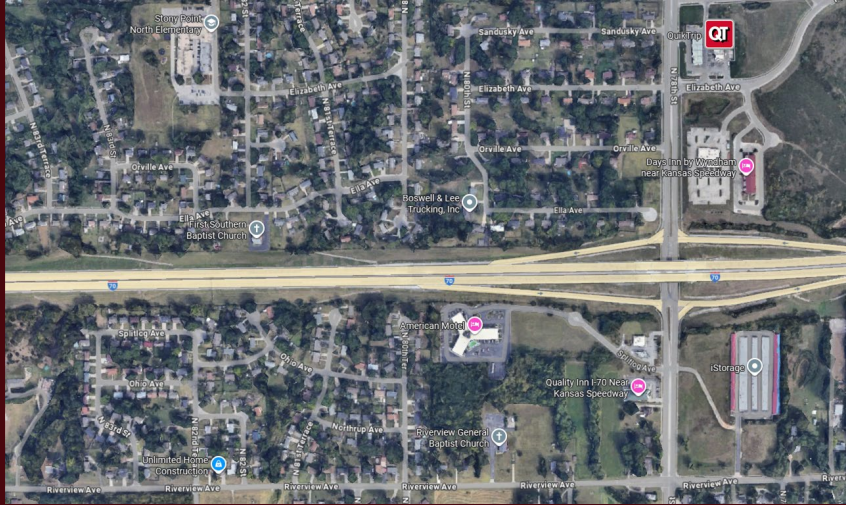
# Christmas Morning 2023....



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# KCK Hot Spots...



I-70 and 78th Street

Multiple overdoses with multiple MCI Events in the past 4 years.



Jelly Roll even did a video highlighting the drug use and violence here...

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# KCK Hot Spots...



7th and Minnesota

2024 MCI event largest to date in KCK...



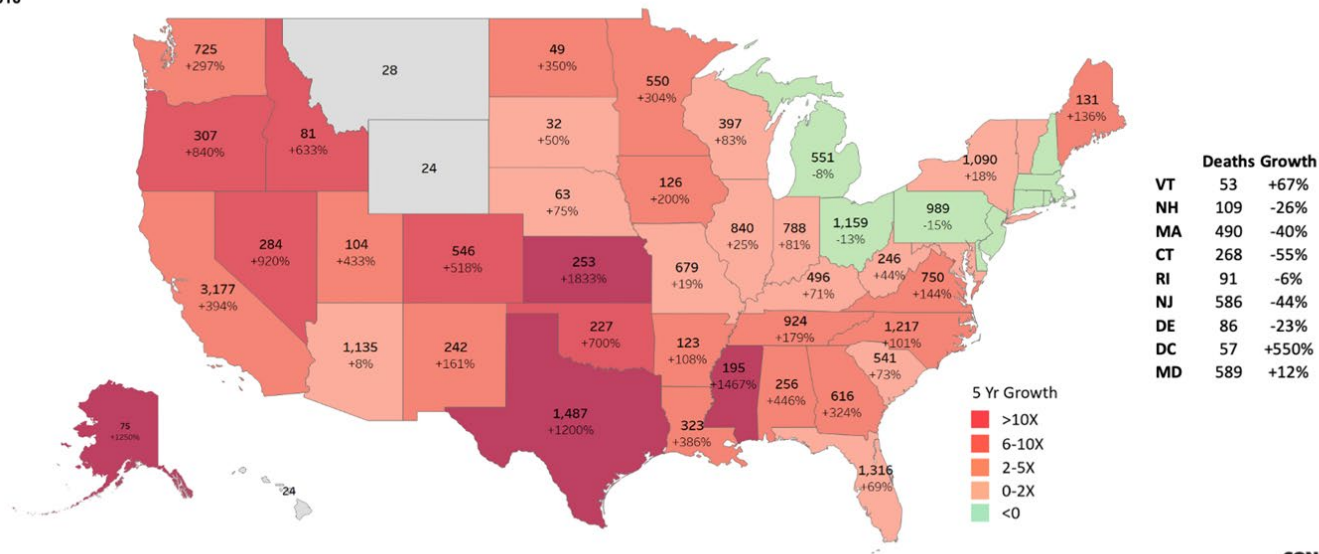
# Why Kansas City and KS?

## U.S. Youth Synthetic Opioid Involved Drug Deaths and Growth by State

Under 25 yrs, 2019-2023

25,495 deaths  
+91% 2023 v 2018

1. CDC (2024)



SONG  
FOR  
CHARLIE





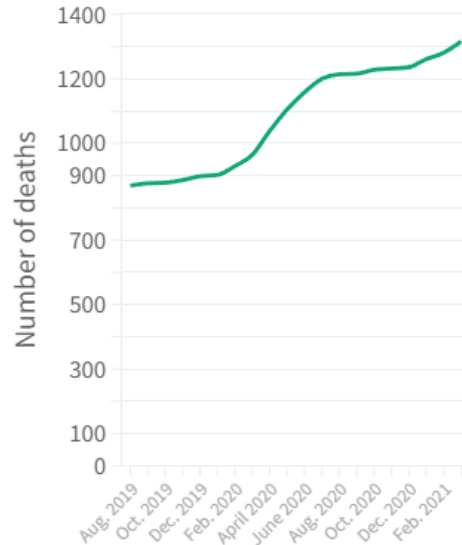
# “Kansas vs. Missouri”



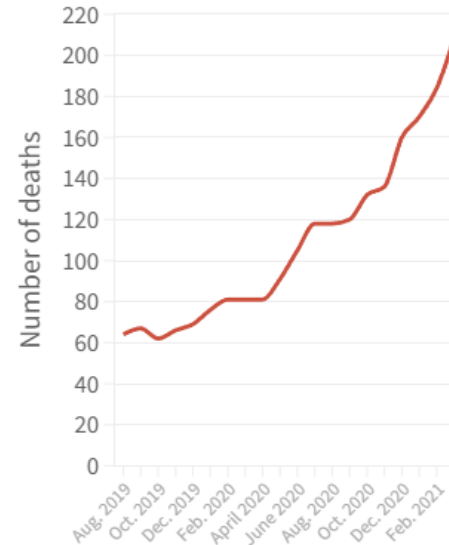
## Number of synthetic opioid overdose deaths within previous 12 months in Kansas and Missouri

Each data point includes total number of deaths from the 12 months prior to labeled date

Missouri

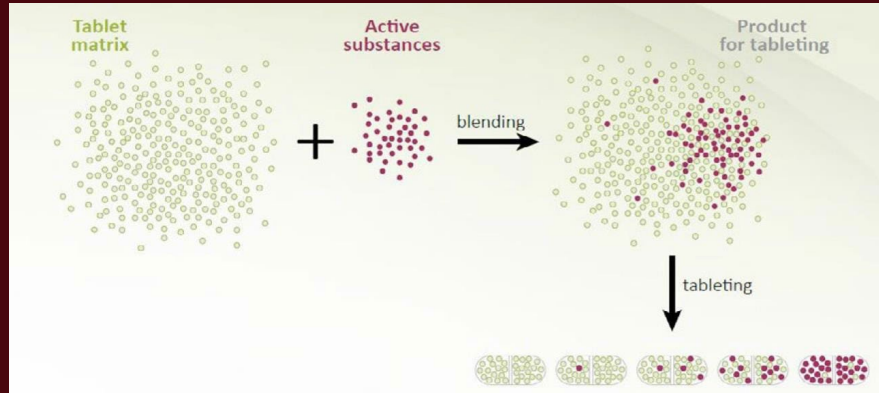


Kansas



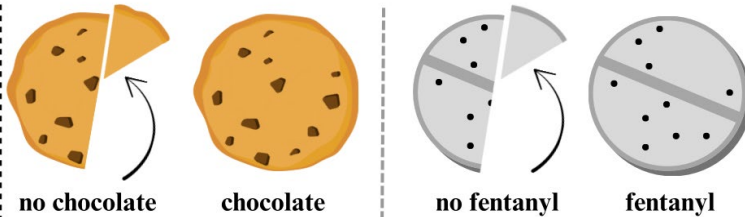
Source: [The Centers for Disease Control and Prevention](#) • Graphic by: Josh Merchant/The Beacon

# Tableting.....Press your Luck!



## The Chocolate Chip Cookie Effect

One portion of a drug may contain fentanyl,  
while another portion may not.



# Pill Mill

| OPERATION PRESS YOUR LUCK: Pill Mill Production



THREE PILL MILLS COULD PRODUCE:



**75,000,000 Pills**

IN ONE YEAR RUNNING 5 DAYS PER WEEK



**110,000,000 Pills**

IN ONE YEAR RUNNING 7 DAYS PER WEEK

# Binder and Cutting Agents

- Common Binders (pills)
  - Cellulose
  - Stearic/Palmitic acid
- Colorants
- Cutting Agents
  - Lactose
  - Mannitol
  - Sucrose
  - Calcium carbonate
  - Inositol
  - Pectin
  - Glucose
  - Maltodextrin
  - Saccharin
  - Dextrose
  - Starch
  - Flour
  - Talcum powder
  - Baking soda/ascorbic acid
  - Boric acid
  - Laundry detergent



# Counterfeit Pills



6,000 fake prescription pills containing fentanyl seized in Kansas City, Kansas



**OPERATION PRESS YOUR LUCK: Counterfeit Pills** 

**BRANDS OF PILLS COUNTERFEITED:**

 <b>Oxycodone</b>	 <b>Adderall</b>	 <b>Xanax</b>
 <b>Viagra</b>	 <b>Ambien</b>	 <b>Meridia</b>



# This is your awareness grab a pen...

TABLET PRESSES

PRODUCTS

ABOUT

SERVICES

CONTACT US

TOOLS & RESOURCES


ARTICLES

VIDEOS

Phone Us

Cart

Home > TDP-0 Desktop Tablet Press



### TDP-0 Desktop Tablet Press

★★★★★ 2 Reviews

Add Your Review

US\$1,610.00

SKU#: 506047750052

Qty:

Add to Cart

SHARE THIS

[Facebook](#) [Twitter](#) [LinkedIn](#)

The TDP-0 Tablet Press is an advanced, manually operated pill press that is able to press round tablets up to 10mm in diameter and 6mm thick without the need for electrical power. Thanks to its compact dimensions, light weight and manual operation, the TDP-0 is popular in applications that require portability and simplicity of use, including field applications and for work carried out on location.

Prefer to pay by invoice? Request Quote

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Home > Products > Desktop Tablet Presses


Desktop Tablet Presses


5 Items


Sort By Price











**TDP-0 Desktop Tablet Press**

The TDP-0 Tablet Press is an advanced, manually operated pill press that is able to press round tablets up to 10 mm in diameter and 6 mm thick without the need for electrical power. ...

★★★★★ 2 reviews

US\$1,610.00

**TDP-1.5 Desktop Tablet Press**

The TDP-1.5 is a flexible and easily managed desktop format pill press that provides remarkable levels of output, performance and overall flexibility. ...

US\$3,760.00

**TDP-5 Desktop Tablet Press**

Manufactured by LFA in Taiwan, the TDP-5 has been built to the most rigorous standards of manufacture and efficiency. ...

★★★★★ 3 reviews

US\$4,300.00

**TDP-6s Desktop Tablet Press**

Manufactured by LFA in Taiwan, the TDP-6s V2 is a single punch desktop format tablet press that is based on the highly popular TDP-5, but featuring an upgraded drive mechanism, a more powerful motor, and greater maximum pressure. ...

★★★★★ 5 reviews


US\$5,380.00


**DTP-25 V2 Desktop Tablet Press**

The DTP-25 V2 Desktop Tablet Press is an advanced tablet press that incorporates many refinements to make tablet pressing faster, easier, more efficient and safer. ...

US\$13,440.00

Drugs > Office & School & Business & Industrial > Industrial Supplies & MRO > Lab Supplies > Wholesale Round Shape...





Wholesale Round Shape H30 CANDY Press Lab Supplies 6.5mm Tablet Die Set TDP-0 TDP-1.5 TDP-5 tools For tip-Machine tdp dies molds

★★★★★ 4.9 (35 Reviews)

42 sold

US\$65.83 - 78.45 / Piece

New Buyer Coupon Pack

\$10 New Buyer Coupon Pack

Claim

Buy Now

Buyer Protection

After Sales Assurance

Secure Payment

Refund for No Delivery

Product Feature

- we customize other shapes as well, let us know when you have customization punches
- well carved, good quality
- tdp molds
- special design
- hard bearing steel quality


Specification

Item Code:

852934687

Category:

Lab Supplies



**Capsule Filling Machine Size 00**

★★★★★ 4.9 | 294 Reviews

Effortlessly fill capsules at home, saving money and customizing your supplements for better health.

**\$39.95 USD** ~~\$49.95 USD~~

Sale

✓ Simplify Capsule Filling at Home

✓ Save Up to 80% on Supplements

✓ Customize Capsules for Personal Needs

✓ Know exactly what's in your supplements

Quantity: 

- 1 +

Add to cart

Fast Shipping

Secure Payments

30-Day Money Back Guarantee

# Fentanyl Labs

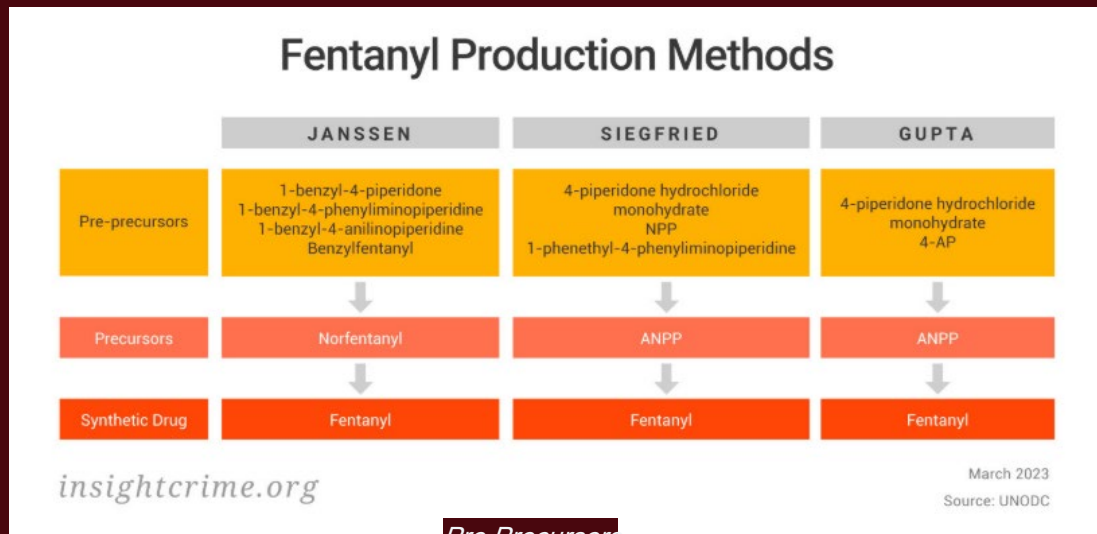


# Fentanyl Labs cont...





# Janssen, Siegfried, Gupta Methods



## Pre-Precursors

Aniline



4-Piperidone  
HCL



Propionyl  
Chloride



Acetic  
Acid



Sodium  
Hydroxide



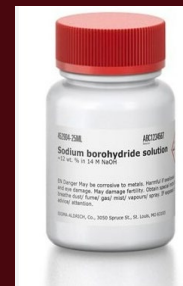
Isopropyl  
Alcohol



Phenethyl  
Bromide



Sodium  
Borohydride



# “Fire/PD Detection”

## Aniline:

Fish Smell, Yellowish-Brownish  
IP 7.7 (PID Will see it)  
IDLH 100 PPM

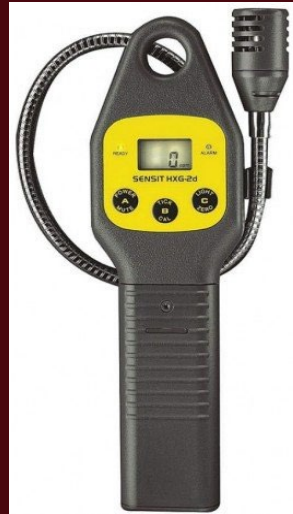


## Propionyl Chloride:

Pungent odor, colorless  
Extremely flammable

## Isopropyl Alcohol:

LEL 2% - 12%  
IP 10.1 (PID Will see it)  
IDLH 2000 PPM  
EX Flammable



## Acetic Acid 80%:

Pungent Smell  
IP 10.66 (PID might see it but might not.)  
IDLH 50PPM

## Sodium Borohydride:

White powder  
Water/Air reactive  
Redox Agent



# Powder Detection



## **MX908 Device: Trace detection**

KCMO in our area or KS State Fire Marshal  
High-Pressure Mass Spectrometry (HPMS)

## **Red Wave Technology THREAT ID:**

KCK Spring of 2026  
FTIR and Raman Technology in one.  
23,000 Powders/Chemicals

## **Tru Narc:**

Local PD jurisdictions has these around KCK.  
Including KCKPD.  
1200 Substances/Chemicals  
Raman Technology



# Community Education is KEY!

In Kansas City, Kansas multiple organizations have started initiatives to address the opioid topic.

## School Education

Over 10,000 youth contacts in 2 years

## Community Education

Local Media Coverage and Support Groups

## Easier Access to Narcan

First Call, County Health Departments, Public Distribution Centers

## Kaylee's Dad is Mad

[www.kayleesdadismad.com](http://www.kayleesdadismad.com)

## Fentanyl Fathers

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

## Song For Charlie

[www.songforcharlie.org](http://www.songforcharlie.org)

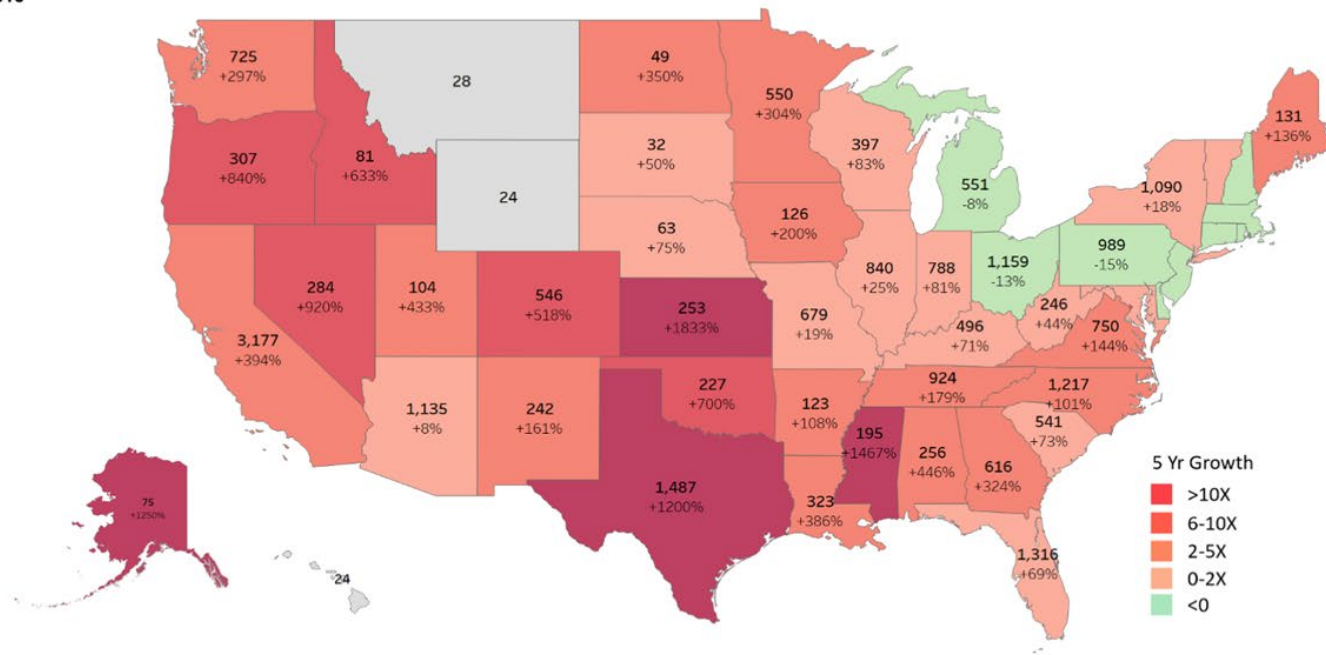


# U.S. Youth Synthetic Opioid Involved Drug Deaths and Growth by State

Under 25 yrs, 2019-2023

25,495 deaths  
+91% 2023 v 2018

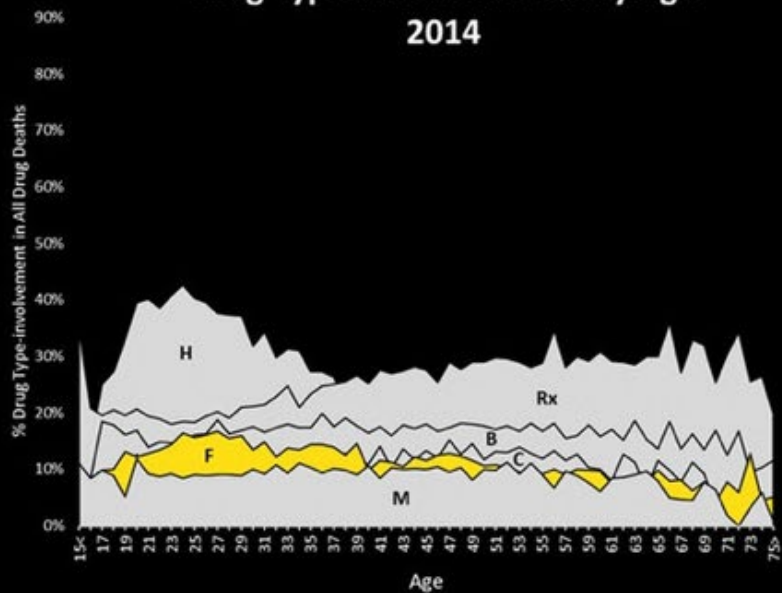
1. CDC (2024)



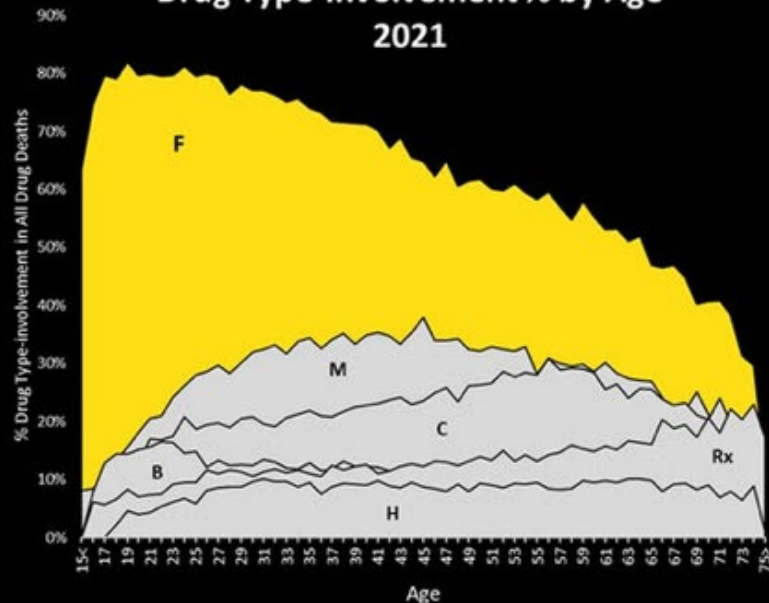


# Fentanyl's Growth, Multi-substance, Youth Impact

\* Drug Type-Involvement % by Age  
2014



\* Drug Type-Involvement % by Age  
2021



\*Will sum to greater than 100% because multiple substances can be involved in one death

H = Heroin (T40.1)

Rx = Prescription Opioids (T40.2)

F = Fentanyl/Synthetic Opioids (T40.4)

C = Cocaine (T40.5)

B = Benzos (T42.4)

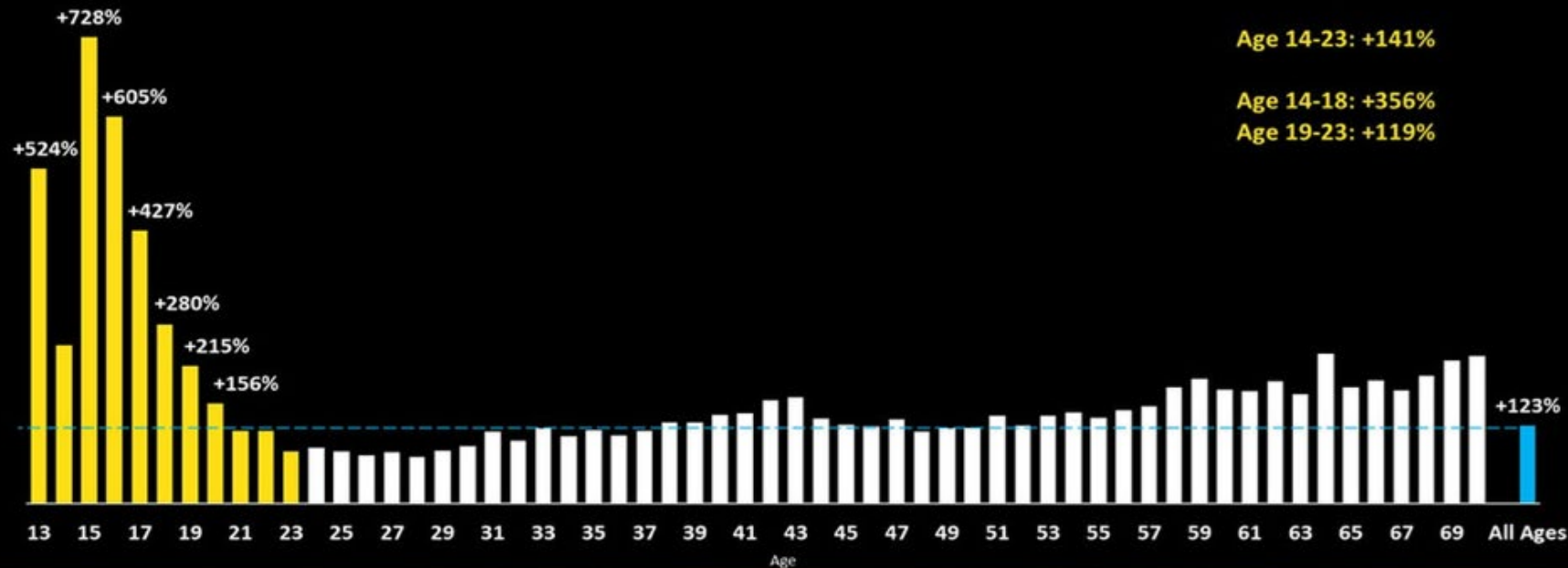
M = Methamphetamine (T43.6)

Derived from: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System, Provisional Mortality & Morbidity 1999-2020 on CDC WONDER Online Database. Data are from the provisional data for years 2021 and 2022 and final Multiple Cause of Death Files, 1999-2020, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. Provisional data for 2021 may change until 12/2022. Accessed at <http://wonder.cdc.gov/mort/usd21/provisional.html> on Oct. 2022. Reported data, not predicted. NCHS has defined selected causes of death groups for analysis of all ages. Mortality data: "Drug poisoning (overdose)" deaths are identified using underlying cause of death codes from the Tenth Revision of ICD (ICD-10) 860-864 (unintentional), 880 (poisoning), and Y30-Y34 (undetermined). Drug overdose and poisoning deaths involving selected drug categories are identified by specific multiple cause of death codes: heroin (T40.1), natural opioid analgesics, including morphine and codeine, and semisynthetic opioids, including drugs such as buprenorphine, hydrocodone, hydromorphone, and oxycodone (T40.2); methadone, a synthetic opioid (T40.3); synthetic opioid analgesics other than methadone, including drugs such as fentanyl and tramadol (T40.4); cocaine (T40.5); benzodiazepines (T42.4); and psychostimulants with abuse potential, which includes methamphetamine (T43.6). "Rx Opioids" uses T40.2 "Fentanyl/Synthetic opioid involvement" uses T40.4 "Fentanyl" of all drug deaths" is (MCD T40.4/Drug overdose deaths) "Fentanyl only" uses (Any T40.4 - any involvement of T40.1 and/or T40.2 - T40.3, and/or T40.5 and/or T42.4 and/or T43.6). Multiple drugs may be involved in one drug death. Death rates are per 100K population.



# Youth Deaths Growing Faster

U.S. Fentanyl/Synthetic Opioid-involved Death Rate Growth  
By Age, 2021 vs 2018



Derived from: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System, Provisional Mortality & Mortality 1999-2020 on CDC WONDER Online Database. Data are from the provisional data for years 2021-2022 and final Multiple Cause of Death Files, 1999-2020, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. Provisional data for 2021 may change until "12/31/2022". Accessed at <http://wonder.cdc.gov/mort-std30-provisional.html> & <http://wonder.cdc.gov/mort-std30.html> on Oct. 2022. Reported data, not predicted. NCHS has defined selected causes of death groups for analysis of all ages mortality data. "Drug poisoning (intentional)" deaths are identified using underlying cause of death codes from the Tenth Revision of ICD (R01-310, R40-444 [unintentional], R55 [homicide], and R10-114 [undetermined]). Drug overdose & poisoning deaths involving selected drug categories are identified by specific multiple cause of death codes: heroin (T40.12), natural opioid analgesics, including morphine and codeine, and semisynthetic opioids, including drugs such as oxycodone, hydrocodone, hydromorphone, and oxycodone (T40.2), methadone, a synthetic opioid (T40.3), synthetic opioid analgesics other than methadone, including drugs such as fentanyl and tramadol (T40.4), cocaine (T40.5), benzodiazepines (T42.4), and psychostimulants with abuse potential, which includes methamphetamine (T43.6). "No Opioids" users T40.2+T40.3, "Fentanyl/Synthetic opioid involvement" users T40.4, "Fentanyl" % of all drug deaths" is (NCD T40.4/Drug overdose deaths). "Fentanyl only" users (Any T40.4 minus (Any T40.4 + any involvement of T40.2 and/or T40.3 + T40.5 and/or T40.6 and/or T42.4 and/or T43.6). Multiple drugs may be involved in one drug death. Death rates are per 100K population.

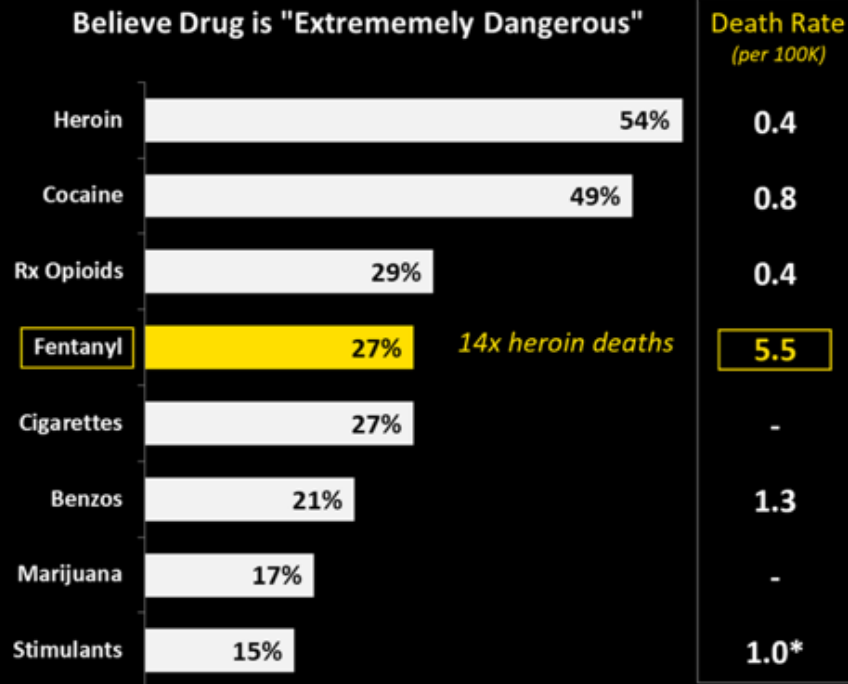
© 2022 Song for Charlie



# YOUTH ARE BEING DECEIVED BY FAKE PILLS

## Teen (13-17) Stress & Substance Use

- 86% are overwhelmed
- 57% don't feel comfortable talking about mental health
- 79% say anxiety/stress is common reason to misuse prescription medicine
- 13% have misused Rx or thought of it; 33% know a friend who has
- 35% don't know enough about fentanyl to rate its danger
- 73% hadn't heard of fentanyl in counterfeit pills



Key Findings from Research on Dangers of Counterfeit Drugs and Fentanyl among Teens and Young Adults, July 15-July 19, 2021. <https://www.documentsindia.org/documents/23079356-snap-morning-consult-full-fentanyl-research-data-set-10-23-21>. A nationwide sample of 1,489 Americans aged 13-24; teens = 13-17, young adults = 18-24. Margin of error +/- 3 ppts. Mortality data from CDC National Center for Health Statistics, CDC WONDER, Provisional Mortality Statistics by Multiple Cause of Death, <https://wonder.cdc.gov/multi-cause-provisional.html>, accessed 12.8.2021. Final numbers for 2020 may change. Drug-induced causes D1-D4 with selected drug classes from MCD - ICD-10 codes. Death rate per 100K. Death rate age groups are 15-19 for teens, 20-24 for young adults, 15-24 for all Gen Z. Heroin = MCD - ICD-10 Code T40.1, Cocaine = T40.5, Benzos = T42.4, Rx Opioids = T43.2, Fentanyl = T40.4, Stimulants = T43.6 Psychostimulants with abuse potential and includes Methamphetamine\*.



# “One Pill Can Kill”

## ONE PILL CAN KILL

Department of Justice Drug Enforcement Administration  
**FAKE PILLS FACT SHEET**

FAKE PRESCRIPTION PILLS • WIDELY AVAILABLE • INCREASINGLY LETHAL

DEA LAB TESTING REVEALS THAT  
**6 OUT OF EVERY 10 PILLS**  
WITH FENTANYL CONTAIN A POTENTIALLY  
**LETHAL DOSE**

**Fake pills often contain fentanyl and are more lethal than ever before.**

DEA officials report a dramatic rise in the number of fake pills containing at least 2 mg of fentanyl, which is considered a potentially lethal dose.

Drug traffickers are using fake pills to exploit the opioid crisis and prescription drug misuse. In 2021, 107,622 people died by drug poisoning in the United States.

Fentanyl, the synthetic opioid most commonly found in fake pills, is the primary driver in this alarming increase in poisoning deaths.

**Criminal drug networks are flooding the U.S. with deadly fake pills.**

- Criminal drug networks are mass-producing fake pills and falsely marketing them as legitimate prescription pills to deceive the American public.
- Fake pills are easy to purchase, widely available, often contain fentanyl or methamphetamine, and can be deadly.
- Fake prescription pills are easily accessible and often sold on social media and e-commerce platforms, making them available to anyone with a smartphone.
- Many fake pills are made to look like prescription opioids such as oxycodone (Xycontin®, Percocet®), hydrocodone (Vicodin®), and alprazolam (Xanax®), or stimulants like amphetamines (Adderall®).

**AUTHENTIC**  
oxycodone M30 tablets

**\*FAKE**  
oxycodone M30 tablets containing fentanyl

For more information about fake pills, go to [DEA.gov/OnePill](https://www.dea.gov/OnePill)

Date as of December 2022

\*Photos of fake pills do not represent all available fake pills.

DRUG ENFORCEMENT ADMINISTRATION

## ONE PILL CAN KILL

### EMOJI DRUG CODE | DECODED

COMMON EMOJI CODES

#### FAKE PRESCRIPTION DRUGS

<b>PERCOCET &amp; OXYCODONE</b> 💊 🟦 🟩 🟨	<b>XANAX</b> 💊 🟦 🟩 🚚	<b>ADDERALL</b> 💊 A 🧑
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#### DEALER SIGNALS

<b>DEALER ADVERTISING</b> 💰 🚚 🟨 🟩 🟦 🟨	<b>HIGH POTENCY</b> 🚚 💣 🌟	<b>UNIVERSAL FOR DRUGS</b> 🍁	<b>LARGE BATCH</b> 🍪
--	------------------------------	---------------------------------	-------------------------


#### OTHER DRUGS

<b>METH</b> 🧊 🟦 🟩 🟨	<b>HEROIN</b> 🧊 🟦 🟩	<b>COCAINE</b> 🧊 🟦 🟩 🧑 🟦 🟩 🟨 🟩 🟨 🟩	
<b>MDMA &amp; MOLLIES</b> 💖 ⚡ 🚫 🟦 🟩 🟨	<b>MUSHROOMS</b> 🍄	<b>COUGH SYRUP</b> 💊 🟦 🟩 🟨	<b>MARIJUANA</b> 🌿 🟦 🟩 🟨 🟩 🟨 🟩 🟨 🟩 🟨

This reference guide is intended to give parents, caregivers, educators, and other influencers a better sense of how emojis are being used in conjunction with illegal drugs. Fake prescription pills, commonly laced with deadly fentanyl and methamphetamine, are often sold on social media and e-commerce platforms – making them available to anyone with a smartphone.

**#ONEPILLCANKILL**  
dea.gov/onepill

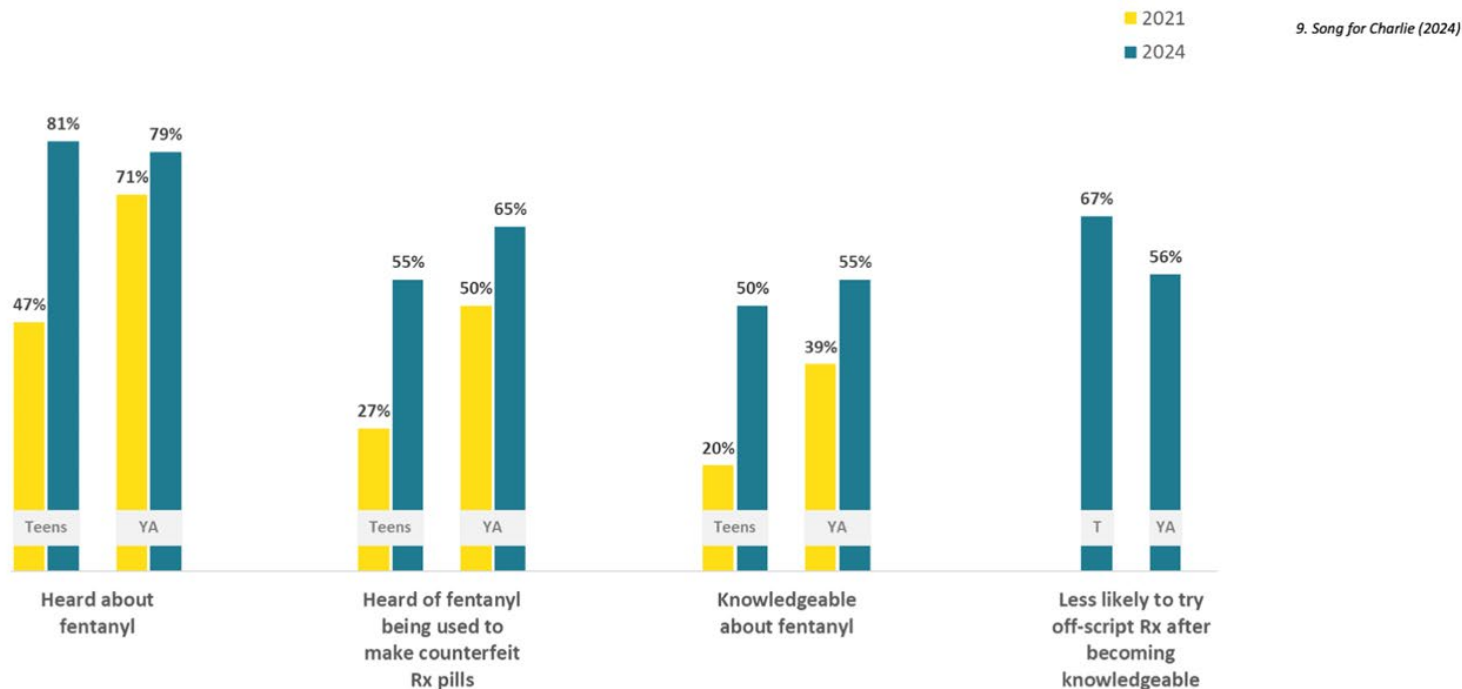
Disclaimer: These emojis reflect common examples found in DEA investigations. This list is not all-inclusive, and the images above are a representative sample.



DEA initiative to spread the word how potent fentanyl can be in laced street drugs.

# U.S. Gen Z Fentanyl Awareness & Knowledge Survey Response

Teens = 13-17, Young Adults = 18-24 n=1,500







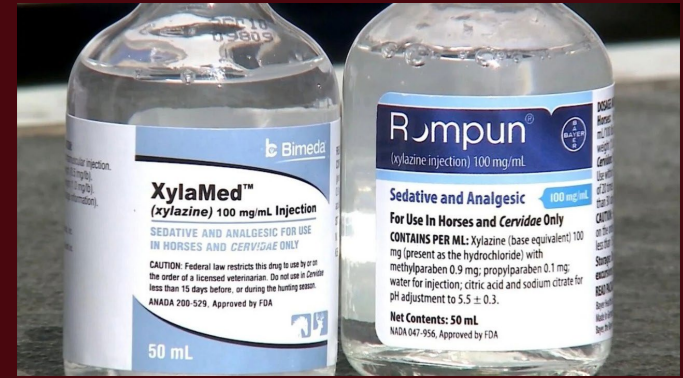
Just because it's burnt, doesn't mean fentanyl is not present....



# Xylazine?

## What is Xylazine?

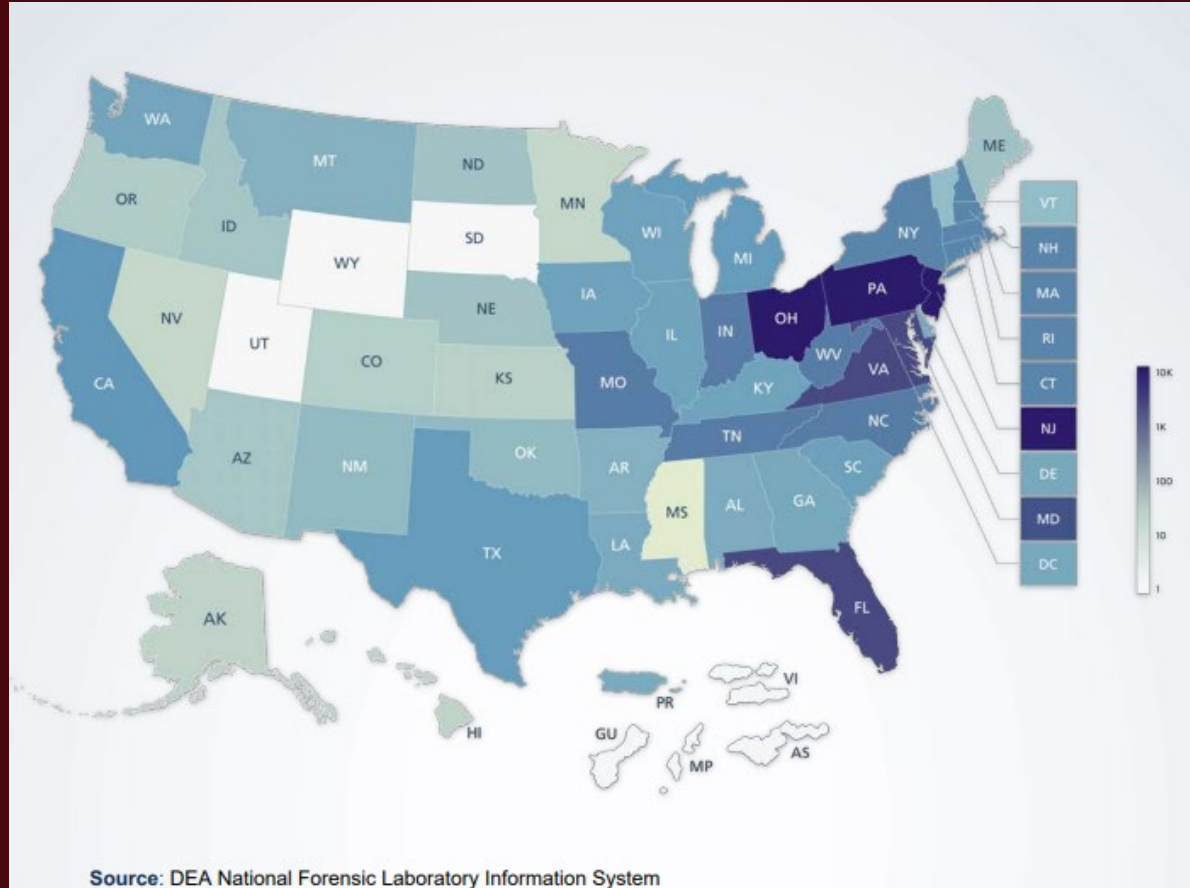
- It's a veterinary sedative
- Not for human use
- Street Name TRANQ or TRANQ-Dope
- Unknown toxicology level in humans due to non testing
- Human use started in Cuba in early 2000'
- Made it way to the US in 2017 (East Coast and Philly Areas)
- Not regulated as a controlled substance (Some States have made their own laws...e.g. Ohio)
- Used a bulking compound
- Narcan doesn't work
- Found in 23% of all fentanyl seized
- DEA 2023 Operation Overdrive: 10 million deadly doses seized, nearly 40 percent were of fentanyl mixed with xylazine.
- Tranq wounds tend to be on the wrist and lower legs but can appear anywhere (Smell and appear black like a burn)
- Can be smoked, injected, or pill form
- Used to bulk fentanyl products for production
- We can detect with our Mass Spec Meters...MX908 Device



<https://www.yihuipharm.com/api/xylazine-hcl>





# 2023 Xylazine Seizures



# Fentanyl vs. Xylazine

**Figure 13:** DEA Fentanyl Profiling Program Analysis of Xylazine Content in Fentanyl Samples, 2021-2023

FORM	YEAR	NUMBER OF FENTANYL SAMPLES CONTAINING XYLAZINE	PERCENTAGE OF TOTAL FENTANYL SAMPLES CONTAINING XYLAZINE
 PILL	2021	162	4.4
	2022	452	7.7
	2023	332	5.2
 POWDER	2021	1,241	19.0
	2022	1,847	24.3
	2023	2,067	27.3

**Source:** DEA Special Testing and Research Laboratory, query date April 26, 2024

# Leave behind Kits and Testing

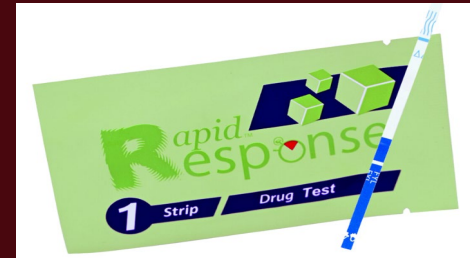
KCKFD Leave behind program:

2025 we got funding for our leave behind program for habitual users or first time users. We don't ask just leave the Narcan kits behind with information to area counseling agencies. However our community Paramedic is notified and will follow up if a Kit is left behind.

Testing Strips:

Fentanyl test strips and Xylazine test strips on Amazon.

- \$8 for 5-10 strips

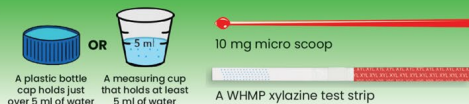


# XYLAZINE TEST STRIPS

## QUICK REFERENCE GUIDE

This guide shows how to test powdered opioids.  
See the full instructions for testing pressed opioid tablets.

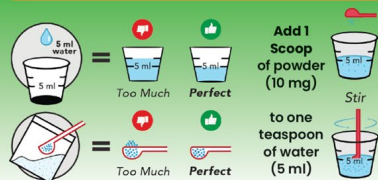
### WHAT YOU NEED:



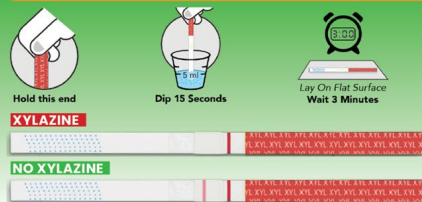
### 1. CRUSH & MIX



### 2. MEASURE & DILUTE



### 3. TEST & INTERPRET RESULTS



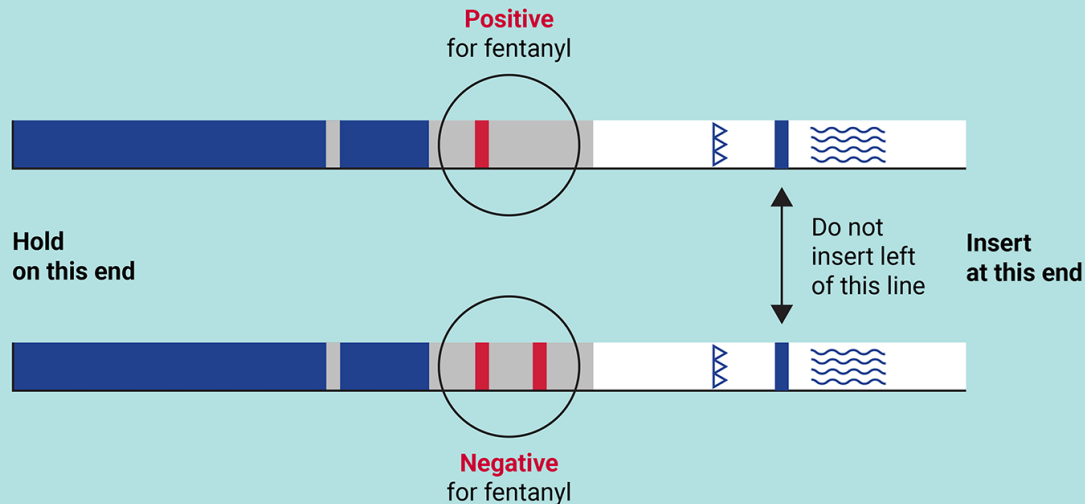
XYLAZINE STRIPS  
SHOULD ONLY  
BE USED TO  
TEST OPIOIDS

**CARRY NALOXONE.**  
When you can,  
avoid using alone.  
NeverUseAlone.com  
877-696-1996



Any second line, no matter how faint, is still a negative result.

## Fentanyl test strips



Thank You!

Questions?

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3rd Shift

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