

INTER-AMERICAN DRUG ABUSE CONTROL COMMISSION

CICAD

Secretariat for Multidimensional Security

OEA/Ser.L/XIV.2. CICAD/doc.2813/23 November 28, 2023 Original: English

SEVENTY-FOURTH REGULAR SESSION December 11-14, 2023 Washington D.C.

EMERGING SYNTHETIC DRUG TRENDS IN THE UNITED STATES

Emerging Synthetic Drug Trends in the United States

Christine A. Herdman, Ph.D.

United States Drug Enforcement Administration

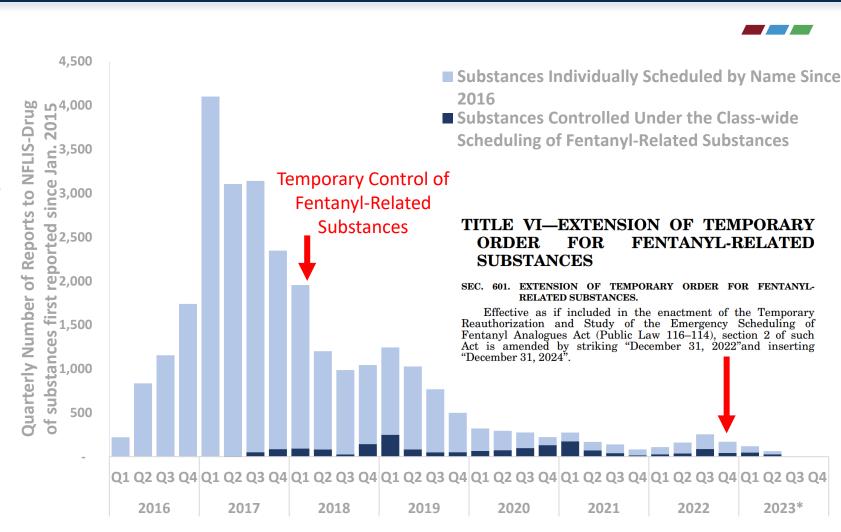
Diversion Control Division

Drug and Chemical Evaluation Section

United States Fentanyl-Related Substance (FRS) Class Control and Effect of Class Control



- 2018 (Feb 6): DEA publishes temporary class control
- 2019 (May 1): China provides a broader class control
- Stats
 - ☐ How many FRS have been encountered to date? 36
 - **□** Last new FRS encountered? **February 2022**
 - ☐ How many FRS have been placed under permanent control? 15



Source: DEA, National Forensic Laboratory Information System (NFLIS-Drug), queried on August 21, 2023. Data excludes substances controlled prior to 2016.

*Reports still pending for 2023.

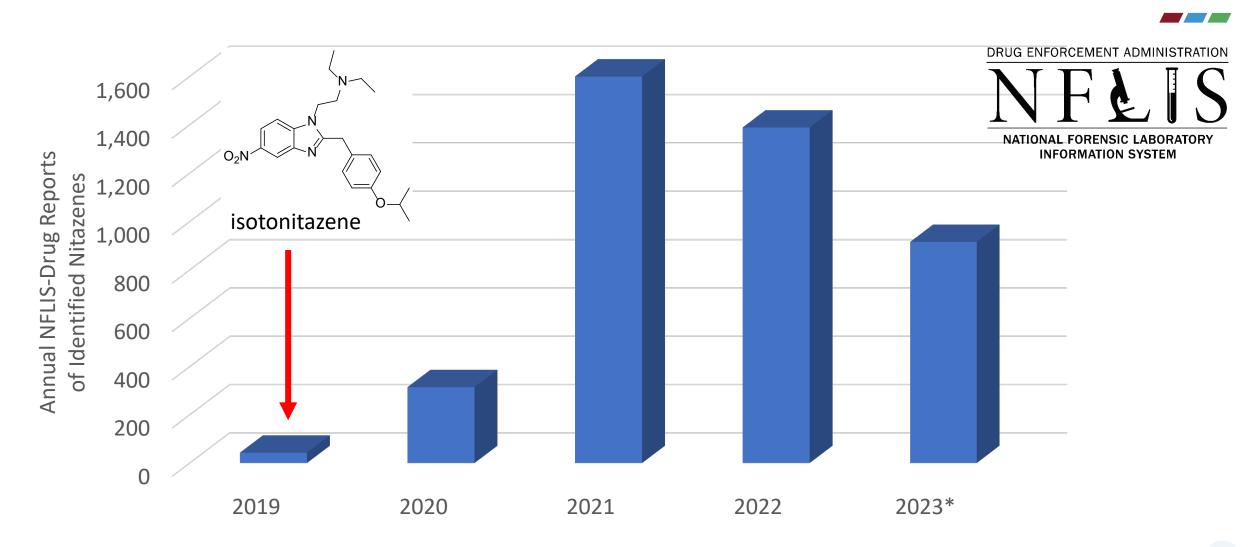


TOPICS

- Synthetic Opioids
- Benzodiazepines
- Ketamine
- Poly Drug Use

Emergence of Nitazenes





Nitazenes in the News



New, Dangerous Synthetic Opioid in D.C., Emerging in Tri-State Area

DEA Washington, DC Division - Public Information Office



The DEA Washington Division is warning area residents of a new drug, emerging in the D.C. metropolitan area that is as dangerous and deadly as fentanyl

This week, the DEA Washington Division brought local news outlets into their regional laboratory to see and discuss a dangerous class of drugs they are seeing emerge in the region --nitazenes. A drug that was never approved for medical use, nitazines are being sourced from China and being mixed into other drugs.

Isotonitazene (aka nitazene or "ISO") is a particular synthetic opioid the DEA is seeing move into the area, First identified around 2019 in the Midwest, this dangerous drug has moved into the Southern states and, more recently, along the Eastern seaboard. Much more potent than heroin and morphine (similar to fentanyl), ISO is being mixed into and marketed as other drugs to make drugs more potent and cheaper to produce. The major concern: This drug can and has caused deadly overdoses in unsuspecting victims



Surging opioid nitazene could be



The drugs are called nitazenes.

DEA

Study: Synthetic opioid nitazenes appear more potent than fentanyl, linked to overdose deaths

Sep 02, 2023, 10:35am · Updated on Sep 02, 2023

By: Gillian Neff and Rose Shannon



deadlier than fentanyl, experts warn

There is a new deadly opioid showing up on San Francisco streets

It's poised to push the overdose death toll even higher.









EMBED ⇔ MORE VIDEOS ▶

A new deadly drug is showing up on the streets of San Francisco and it's poised to push the overdose death toll even higher.

Meth, ISO and cash seized in Santa Rosa drug trafficking bust

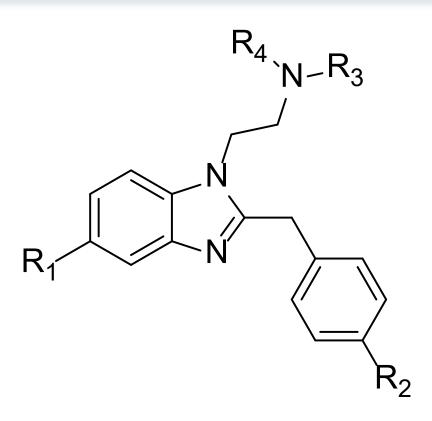
ted: May 25, 2023 / 10:57 AM PDT lated: May 25, 2023 / 10:59 AM PDT



Encountered Nitazenes - Structural Class Diversification

within a Pharmacological Class





Substance	R ₁	R ₂	R ₃	R ₄
Butonitazene	NO ₂	OCH ₂ CH ₂ CH ₂ CH ₃	CH ₂ CH ₃	CH ₂ CH ₃
Clonitazene	NO ₂	Cl	CH ₂ CH ₃	CH ₂ CH ₃
Etodesnitazene	Н	OCH ₂ CH ₃	CH ₂ CH ₃	CH ₂ CH ₃
Etonitazene	NO ₂	OCH ₂ CH ₃	CH ₂ CH ₃	CH ₂ CH ₃
Ethyleneoxynitazene	NO ₂	-OCH ₂ CH ₂ -	CH ₂ CH ₃	CH ₂ CH ₃
Flunitazene	NO ₂	F	CH ₂ CH ₃	CH ₂ CH ₃
Isotonitazene	NO ₂	OCH(CH ₃) ₂	CH ₂ CH ₃	CH ₂ CH ₃
Isotodesnitazene	Н	OCH(CH ₃) ₂	CH ₂ CH ₃	CH ₂ CH ₃
Menitazene	NO ₂	CH ₃	CH ₂ CH ₃	CH ₂ CH ₃
Metodesnitazene	Н	OCH ₃	CH ₂ CH ₃	CH ₂ CH ₃
Metonitazene	NO ₂	OCH ₃	CH ₂ CH ₃	CH ₂ CH ₃
5-Methyl etodesnitazene	CH ₃	OCH ₂ CH ₃	CH ₂ CH ₃	CH ₂ CH ₃
N-Desethyl isotonitazene	NO ₂	OCH(CH ₃) ₂	CH ₂ CH ₃ H	
N-Piperidinyl etonitazene	NO ₂	OCH ₂ CH ₃	-CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ -	
N-Piperidinyl isotonitazene	NO ₂	OCH(CH ₃) ₂	-CH ₂ CH ₂ CH ₂ CH ₂ CH ₂ -	
N-Pyrrolidino etonitazene	NO ₂	OCH ₂ CH ₃	-CH ₂ CH ₂ CH ₂ CH ₂ -	
N-Pyrrolidino isotonitazene	NO ₂	OCH(CH ₃) ₂	-CH ₂ CH ₂ CH ₂ CH ₂ -	
N-Pyrrolidino metonitazene	NO ₂	OCH ₃	-CH ₂ CH ₂ CH ₂ CH ₂ -	
N-Pyrrolidino protonitazene	NO ₂	OCH ₂ CH ₂ CH ₃	-CH ₂ CH ₂ CH ₂ CH ₂ -	
Protonitazene	NO ₂	OCH ₂ CH ₂ CH ₃	CH₂CH₃	CH ₂ CH ₃

Orange = Schedule I controlled substance in U.S. Green = Proposed Schedule I control in U.S. Blue = other identified nitazenes



TOPICS

- Synthetic Opioids
- Benzodiazepines
- Ketamine
- Poly Drugs Use

Designer Benzodiazepines



TOP STORIES

'Fake Xanax:' A worry to law enforcement, often mixed with deadly fentanyl; and it's

in Fort Wayne Posted: Aug 29, 2023 / 05:17 PM EDT



'Benzos' Are Rising in Popularity Among Teens and They're $ilde{\ \ }$ **Getting Them On Social Media**

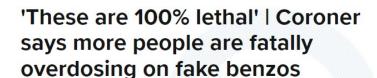
Xanax bars in East Dayton testing positive for fentanyl

WYSO | By Mike Frazier

Published February 13, 2023 at 11:29 AM EST







Benzodiazepines, or benzos, are often used to treat anxiety and insomnia. Popular brand names of benzos include Xanax and Valium.



FBI seizes more than 4,000 pounds of drugs from Garden Grove house operating as lab

By ABC7.com staff a Friday, March 31, 2023







including methamphetamine, bath salts and counterfeit Xanax.

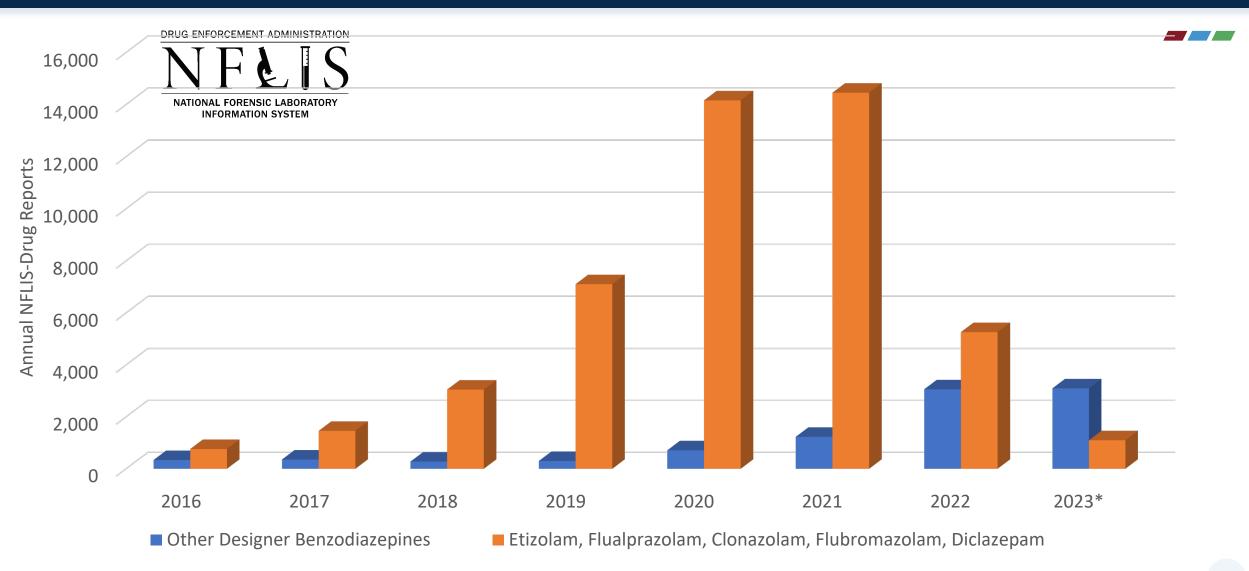


Xanax and Vallum. Some Xanax bors in East Dayton tested positive for fentanyl over the weekend.

Yellow Xanax bars testing positive for fentanyl were reported over the weekend on the east side of Dayton. That's according to the local nonprofit The SOAR Initiative.

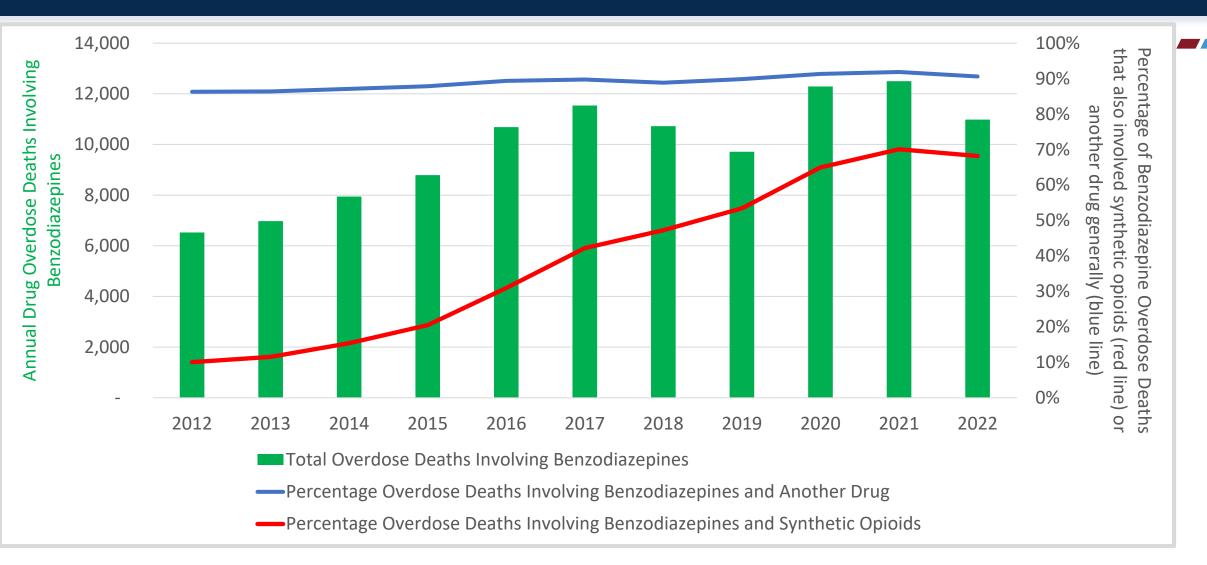
Annual Reports to NFLIS-Drug for Designer Benzodiazepines





Benzodiazepine Involved Overdose Deaths





Emergency Scheduling of Five Designer Benzodiazepines



DEPARTMENT OF JUSTICE

Drug Enforcement Administration

21 CFR Part 1308

[Docket No. DEA-989]

Schedules of Controlled Substances: Temporary Placement of Etizolam, Flualprazolam, Clonazolam, Flubromazolam, and Diclazepam in Schedule I

AGENCY: Drug Enforcement Administration, Department of Justice.

ACTION: Temporary amendment; temporary scheduling order.

Enforcement Administrator of the Drug Enforcement Administration is issuing this temporary order to schedule five synthetic benzodiazepine substances: etizolam, flualprazolam, clonazolam, flubromazolam, and diclazepam, in schedule I of the Controlled Substances Act. This action is based on a finding by the Administrator that the placement of these five substances in schedule I is necessary to avoid imminent hazard to the public safety. As a result of this

- July 26, 2023 emergency scheduled 5 designer benzodiazepines in schedule I of the Controlled Substances Act
- Based on prevalence in NFLIS-Drug reports and utilized DEA contract pharmacological testing

etizolam

flualprazolam

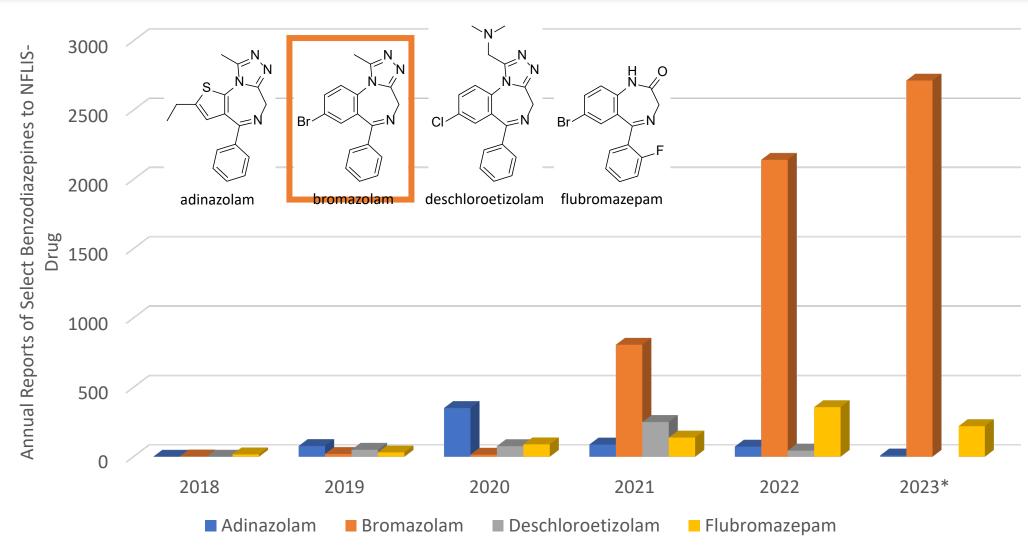
clonazolam

flubromazolam

diclazepam

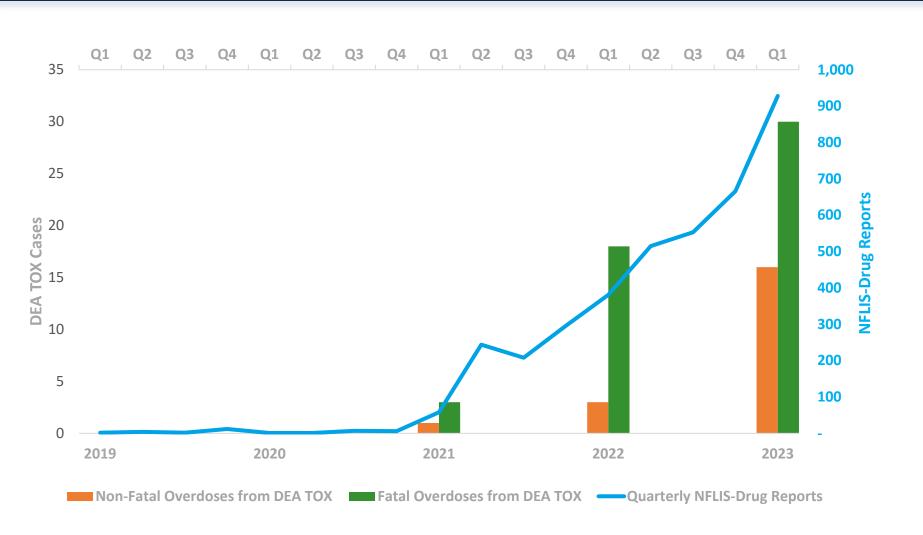
Emergence of other Designer Benzodiazepines





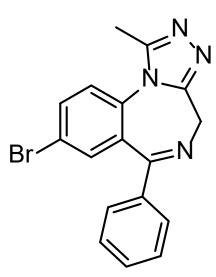
Benzodiazepines – Bromazolam Prevalence













TOPICS

- Synthetic Opioids
- Benzodiazepines,
- Ketamine
- Poly Drugs Use.

Ketamine – Prescription products

October 10, 2023



Showing 1 to 16 of 16 entries

Mkt. Status [‡]	Active Ingredient		
RX	KETAMINE HYDROCHL		
DISCN	KETAMINE HYDROCHL		
DISCN	KETAMINE HYDROCHL		
RX	ESKETAMINE HYDROC		
RX	KETAMINE HYDROCHL		
RX	KETAMINE HYDROCHL		
RX	KETAMINE HYDROCHL		

FDA warns patients and health care providers about potential risks associated with compounded ketamine products, including oral formulations, for the treatment of psychiatric disorders



approved (s)spray for ant depression

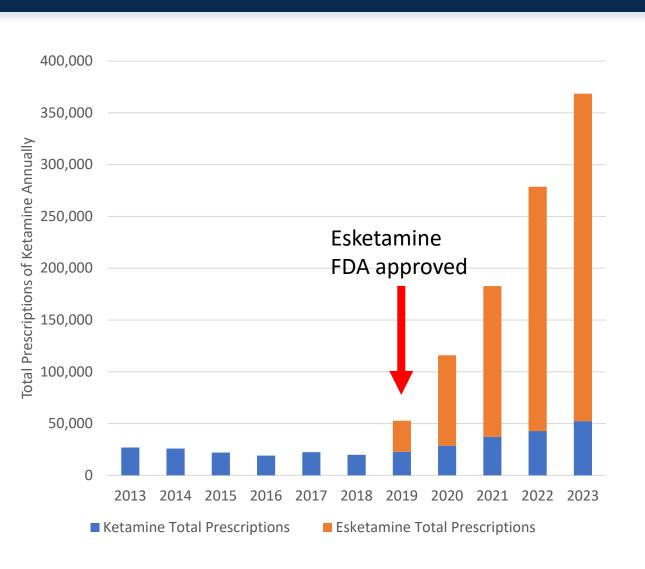
ed to essential list as an is anesthetic

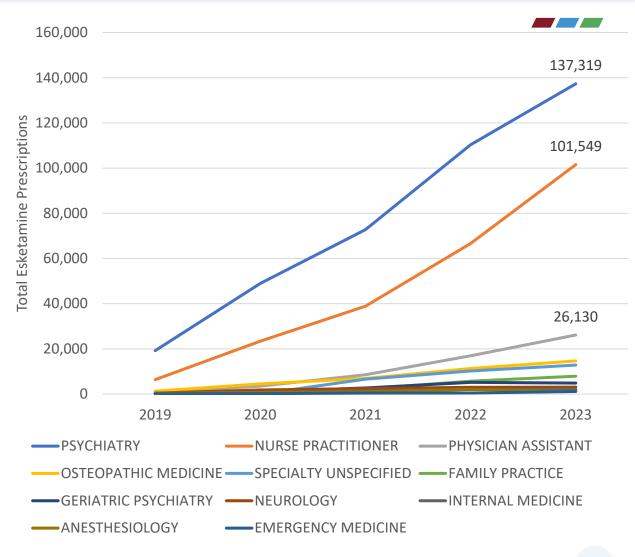
proval of as anesthetics esics

S)-ketamine

Ketamine – Supply and Demand









Ketamine Clinics

How We Can Help



Treatment-Resistant Depression



Generalized Anxiety Disorder



Post Traumatic Stress Disorder



Ideations





Headaches









Obsessive-Compulsive Disorder

Elon Musk Microdoses Ketamine for Depression, Takes Full Doses at Parties, According to WSJ

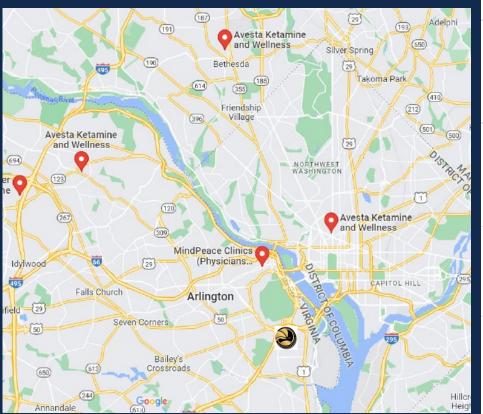
Sarah Rumpf | Jun 27th, 2023, 1:27 pm

202 comments









MindPeace Clinics (Physicians Specializing in Ketamine Therapeutics for Depression and Suicidal Ideations)

4.8 (22)

Medical clinic · 1600 Wilson Blvd Suite 320

Closed · Opens 9 AM (703) 340-1454



NOVA Health Recovery Ketamine Infusion Center

(17)

Mental health service · 8101 Hinson

Farm Rd Ste 201 Suite 201 Closed · Opens 8 AM (703) 844-0184





Mental health clinic · 7918 Jones

Branch Dr 4th Floor Closed · Opens 8:30 AM





Avesta Ketamine and Wellness

(202) 240-9013

Medical clinic · 1400 16th St NW

Suite 101

Closed · Opens 9 AM (202) 410-5123



Avesta Ketamine and Wellness

(703) 570-1346

Medical clinic · 6861 Elm St Suite 3E Closed · Opens 9 AM





Care Clinic Mental Health and Ketamine Therapy

Mental health clinic · 4017 Williamsburg Ct Suite 100

Closed · Opens 9 AM (571) 418-8141





Directions



TOPICS

- Synthetic Opioids
- Benzodiazepines
- Ketamine
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Polydrug Reports







DEA Washington Warns of Deadly Counterfeit Drugs on Social Media

Counterfeit Xanax, OxyContin and Adderall are Being Sold to Kids

DEA Washington, DC Division - Public Information Office



Today, Jarof Forget, Special Agent in Charge (SAC) of the DEA Washington Division issued a warning that drug delers are marketing to teapagers through popular social medical apps, selling origing that took like prescription medical sell-viering counterfeit pills to kids and young adults in our area. Law enforcement officials across the District of Columbia, Marvland, and Virginia are encortice these counterfeit tills causing treatic vertices deethat across the reads.

Embraced by drug dealers, and buyers, for its simplicity and global reach (especially after pandemic lockdowns) the internet has become the marketing tool of choice. While large drug trading websites like Poram Market or Silk Road have been shut down, social media has emerged as a flourishing new marketplace made up of thousands of small-time dealers used soll both became an extra the contract of drivers be individual soles in pale and so with the soles of the soles

This issue has become such a problem in the D.C.-metropolitan area and surrounding states, the DEA Washington Division has worked with area partners and launched a summer awareness campaign specifically targeting the deadly counterfeit pills they are seeing kids, iteens, and young adults ordering online.

SAC Jarod Forget says these sales often involve young people who use apps like Snapchat and Instagram to connect videalers and order pills they think are safe, but oftentimes prove deadly.

These cartels are marketing to our children, to young adult kids in our area. With every pill that slips through the cracks, more lives are lest. "SAC Forget said." Only one life lost -of our children, our family members, our neighbors- sio ne too nany. We're dedicated to educating the public about what's going on and helping keep our area residents and families stafe."



Fentanyl

DEA Washington Division has contiscated thousands of counterfeit pills over the past tew months and laboratory tests found over one in every four pills (26%) to contain a deadly amount of fentanyl. These fake pills, loaded Mexican cartels.

It vilks actual pharmaceuticals, are floodine into the District of Columbia. Maryland, and Virginia via Mexican cartels.

e process begins in China where fentanyl, or the chemical ingredients to make it, are produced. These chemicals are ipped to Mexico, where the cartels produce the fentanyl powder in massive amounts. This deadly drug is then mixed with

other chemicals and pressed into pharmaceutical-grade pills that appear to be Xanax, OxyContin, Adderall, or other popul Euphoria' star Angus Cloud accidentally overdosed on meth, cocaine, fentanyl, coroner says

Sep. 24, 2023 at 10:35 am | Updated Sep. 24, 2023 at

vs real Xanax (right)

neroin or cocaine. This misconce



FEE - Anges Cloud writenum the Ventry Fait Clour Perry on March 12, 1440, in Streetly HBb, Calif. Cloud, the accorretroscented as the drug dealer Fesco Fe

Boston warns of surge in overdoses linked to cocaine laced with fentanyl

Combinations can include drugs other than the or

Fentanyl, methamphetamine and cocaine

Fentanyl and methamphetamine

Methamphetamine and cocaine

Fentanyl and cocaine

Fentanyl and ethanol

26.0%

12.0%

Chart: Christian Leonard / The Chronicle - Source: San Fra February 24, 2023 By Martha Bebinger

Diversion Control Division
U.S. Drug Enforcement Administration

Cloud's cause of death was "acute intoxication" due to the "combined effects of methamphetamine, cocaine, fentanyl and benzodiazepines," the Alameda County Coroner's Bureau said. The office confirmed the overdose was an accident.

Poly-Drug Combinations in Toxicology



SUBSTANCE	DRUG CLASS	
Norfentanyl	Metabolite of	
	fentanyl	
N,N-dimethylpentylone	Stimulant	
Pentylone	Stimulant	
Fentanyl	Opioid	
4-ANPP	Precursor of fentanyl	
Morphine	Opioid	
Benzoylecgonine	Metabolite of cocaine	
Beta hydroxy fentanyl	Metabolite of	
	fentanyl	
4-Anilinopiperidine	Precursor of fentanyl	
(4-AP)		
para-Fluorofentanyl	Opioid	
Xylazine	Depressant	
6-Acetylmorphine	Metabolite of heroin	
Codeine	Opioid	
Methamphetamine	Stimulant	
Despropionyl <i>para</i> -	Metabolite of para-	
fluorofentanyl	fluorofentanyl	
Cocaine	Stimulant	
Acetylfentanyl	Opioid	
Cyclobenzaprine	Muscle relaxant	
Diphenhydramine	Antihistamine	
Doxylamine	Antihistamine	



DEA TOX

DRUG ENFORCEMENT ADMINISTRATION TOXICOLOGY TESTING PROGRAM

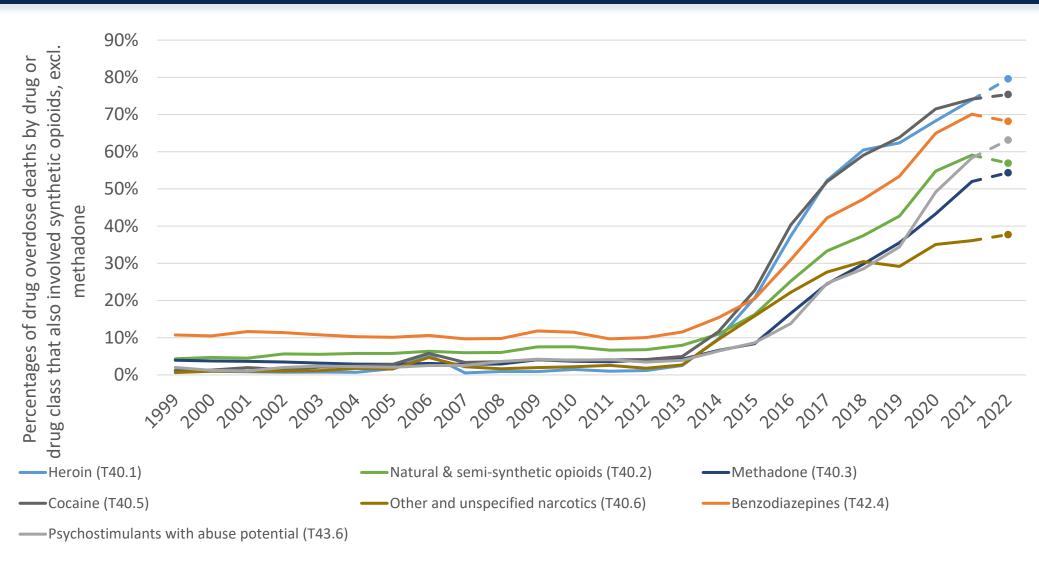
SUBSTANCE	DRUG CLASS	CONCENTRATION	SAMPLE TYPE
Benzoylecgonine	Metabolite of cocaine	48.6 ng/mL	Whole blood
N-Pyrrolidino	Opioid	8.8 ng/mL	Whole blood
etonitazene			
Cocaine	Stimulant	0.3 ng/mL	Whole blood

SUBSTANCE	DRUG CLASS	CONCENTRATION	SAMPLE TYPE
N,N-	Stimulant	45.3 ng/mL	Whole blood
dimethylpentylone			
Furanyl UF-17	Opioid	38.4 ng/mL	Whole blood
PCP	Hallucinogen	22.2 ng/mL	Whole blood
Fentanyl	Opioid	13.2 ng/mL	Whole blood
Pentylone	Stimulant	4.5 ng/mL	Whole blood
Haloperidol	Antipsychotic	Detected	Whole blood
Mirtazapine	Antidepressant	Detected	Whole blood
Naloxone	Opioid antagonist	Detected	Whole blood
Risperidone	Antipsychotic	Detected	Whole blood

Diversion Control Division

Synthetic Opioids Drive Overdose Deaths

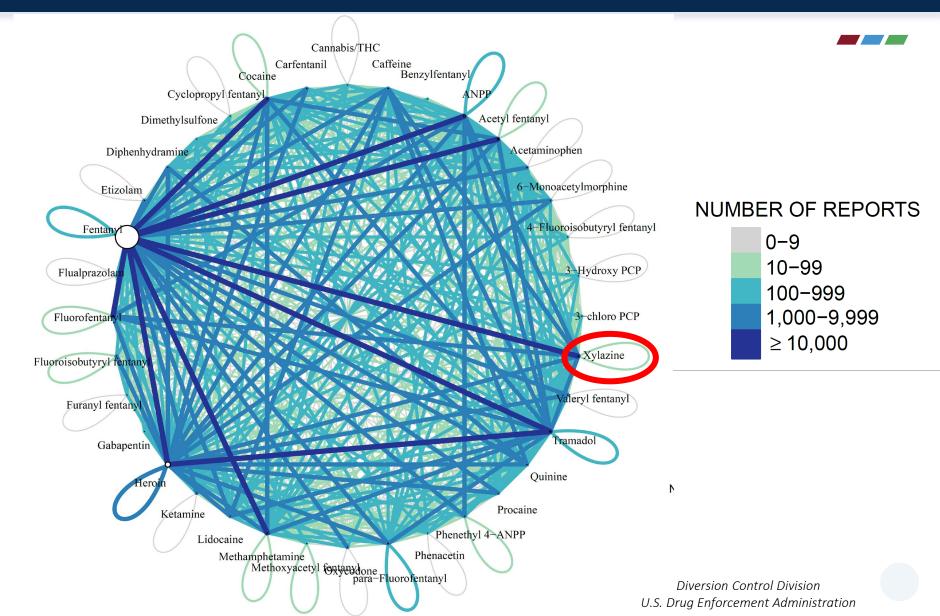




Substances Co-Reported with Fentanyl

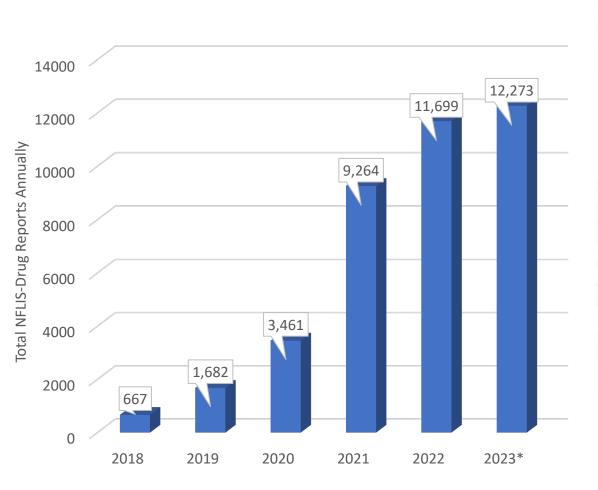


If the presence of illicit fentanyl alone is not bad enough - other substances are being either mixed with fentanyl or misused with fentanyl



Xylazine





NPR

Xylazine causes open wounds, making the illegal drug supply even more dangerous



2 weeks ago



Firstpost

US doctors alarmed at rapid spread of Zombie Drug 'Xylazine' in New York

even more dangerous and treatment more complicated.

The flesh-eating 'zombie drug' is causing alarm on the US streets, literally rotting people's bodies, and medical professionals appear to be...



The Economist

How dangerous is tranq, the new drug sweeping America?

It comes with grim side-effects and there is no antidote | The Economist explains.



Source: DEA, NFLIS-Drug. Accessed at https://www.nflis.deadiversion.usdoj.gov/on November 29, 2023.

Xylazine involved overdose deaths



Morbidity and Mortality Weekly Report (MMWR)

Illicitly Manufactu

Weekly / June 30, 2023 / 72(26);721-72

Print

What is added by this report?

Among 21 jurisdictions, the m 2019 (2.9%) to June 2022 (10.9 percentage of IMF-involved de across jurisdictions.

Of the 144 reports DEA TOX, 125 also (87%), all other rep least 2 other substances

Biden-Harris Administration Xylazine — United Designates Fentanyl Combined with Xylazine as an Emerging Threat to the **United States**

APRIL 12, 2023 • PRESS RELEASES

Xylazine's growing role in overdose deaths nationwide prompts Administration to make this designation for the first time in U.S. history ATLANTA, GA – Today, Dr. Rahul Gupta, Director of the White House Office of National Drug Control Policy (ONDCP), has officially designated fentanyl adulterated or associated with xylazine as an emerging threat to the United...

se

animal



Jun 29, 2023

Contact Information



Drug Enforcement Administration Diversion Control Division Drug & Chemical Evaluation Section

Contact Info: dpe@dea.gov