

November 9, 2023



Emerging Drug Trends

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Funded by the Office of National Drug Control Policy and the Centers for Disease Control and Prevention

COLLABORATE • SHARE • INFORM & HELP

Overview

- Introductions
- Partners
- Tools/Process
- Drug Trends
- Challenges
- HIDTA Products

Liberty Mid-Atlantic HIDTA

- HIDTA = High Intensity Drug Trafficking Areas
- Funded by the Office of National Drug Control Policy (ONDCP)
- A "Program", not an "Agency"
- Collaboration of federal, state, local, and tribal agencies
- Purpose: Reduce drug trafficking and production in the US
- Started the Overdose Response Strategy (ORS) in 2016



Overdose Response Strategy



COLLABORATE across public health and public safety sectors



SHARE data, insights and trends we are seeing related to drug overdose in our communities



INFORM AND HELP local communities develop local solutions to reduce overdoses and save lives



Partners

- Office of the Attorney General
- DEA , HSI, and FBI
- PA State Police (PSP)
- Delaware Valley Intelligence Center (DVIC)
- Lehigh Valley Regional Intelligence and Investigation Center (RIIC)
- Local Police Departments
- Office of Drug Surveillance and Misuse Prevention (ODSMP)
- National Guard - National Counterdrug Training Centers (NCTC) and Drug Demand Reduction Outreach (DDRO)
- ORS teams in other states

Tools used to monitor trends

- Regular engagement with partners
- Outreach to labs
- ODIN and ODMAP
- Drug Checking Programs

ODIN

- Overdose Information Network
- PSP and HIDTA
- Act 158 requires police departments to report overdose incidents to ODIN as of Jan. 2023
- Law Enforcement Only

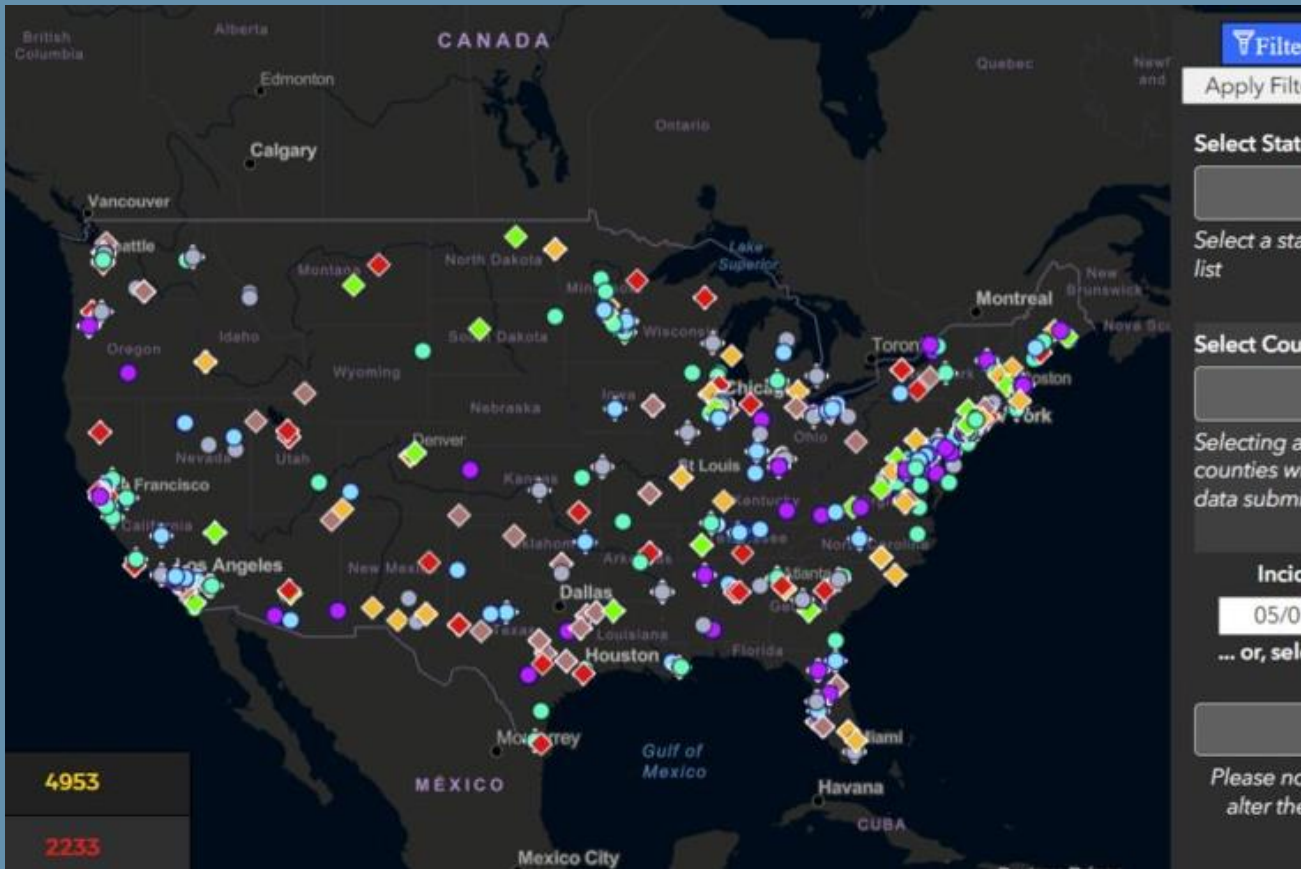
ODIN Overdose Dashboard
"FOR OFFICIAL USE ONLY"



ODIN Investigative Dashboard
"CRIMINAL JUSTICE USE ONLY"



ODMAP



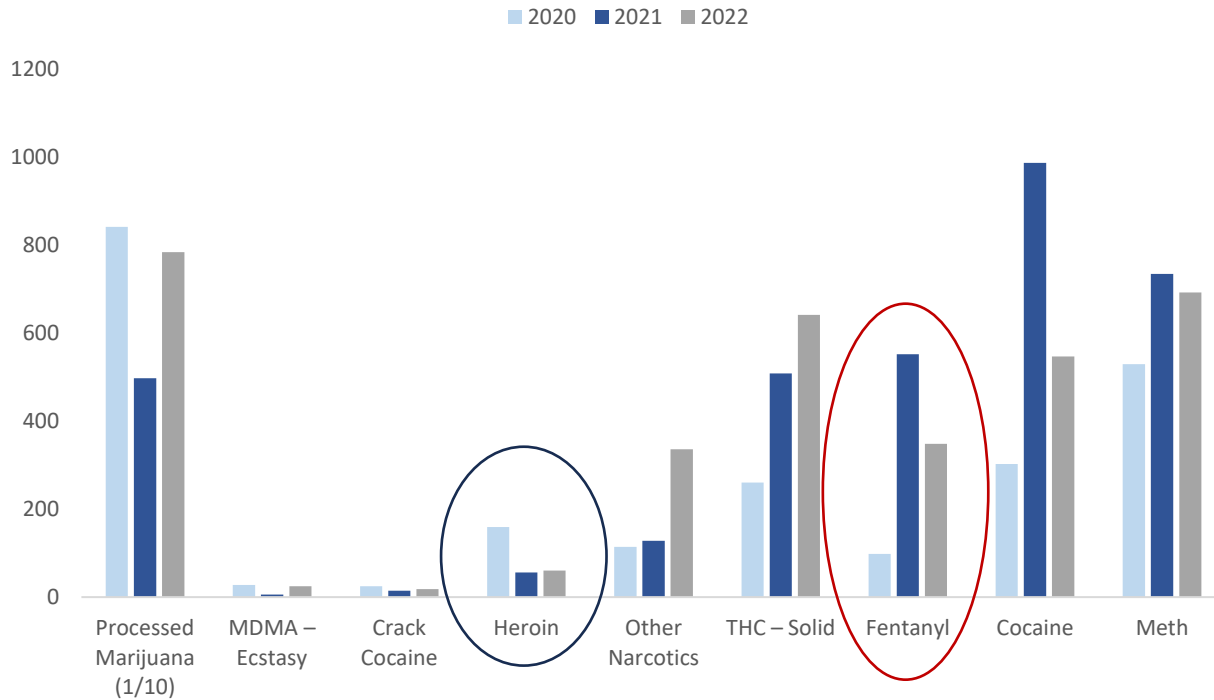
- Available free to government (federal, state, local, or tribal) agencies serving the interests of public safety and public health
- Data pushed from ODIN via API

Current Drug Trends

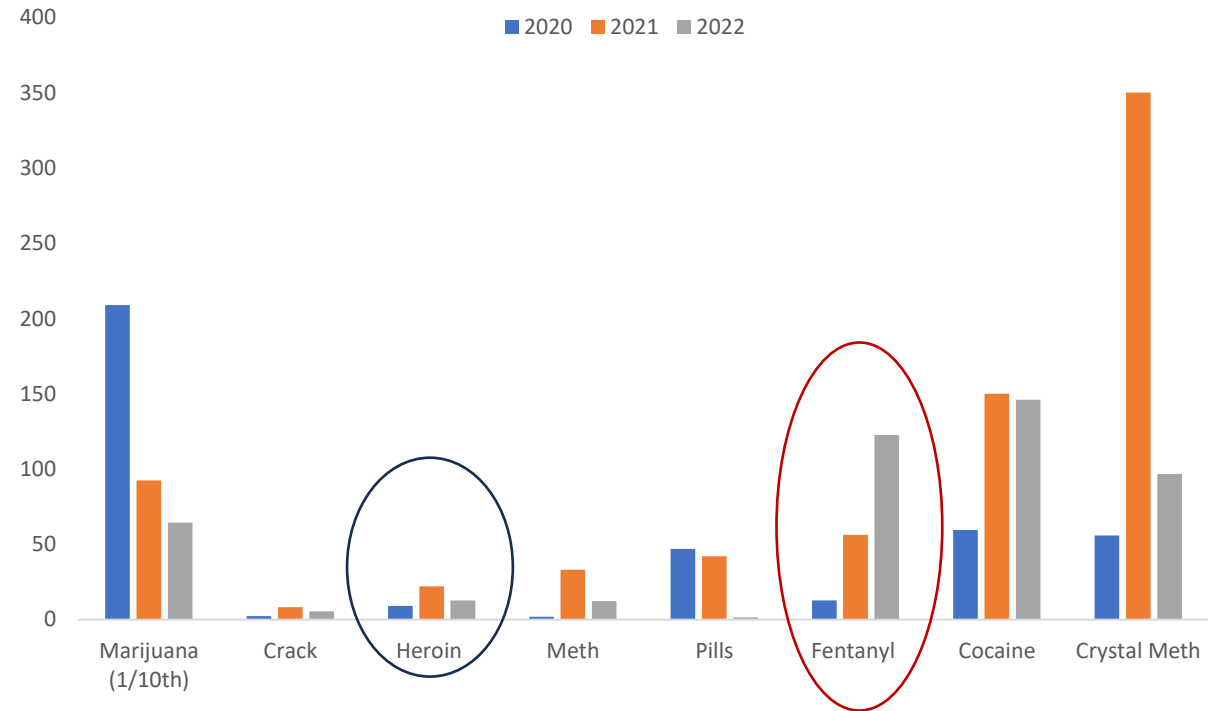
- Fentanyl is the driver behind overdoses
- Polysubstance Use
- Counterfeit Pills
- Novel Psychoactive Substances
 - Designer Benzodiazepines
 - Nitazenes / Novel Synthetic Opioids (NSO)
- Xylazine

Drug Seizures- State Police & Attorney Gen.

Seizures Reported by PSP (lbs)



Drug Seizures Reported to AG/BNI (kg)

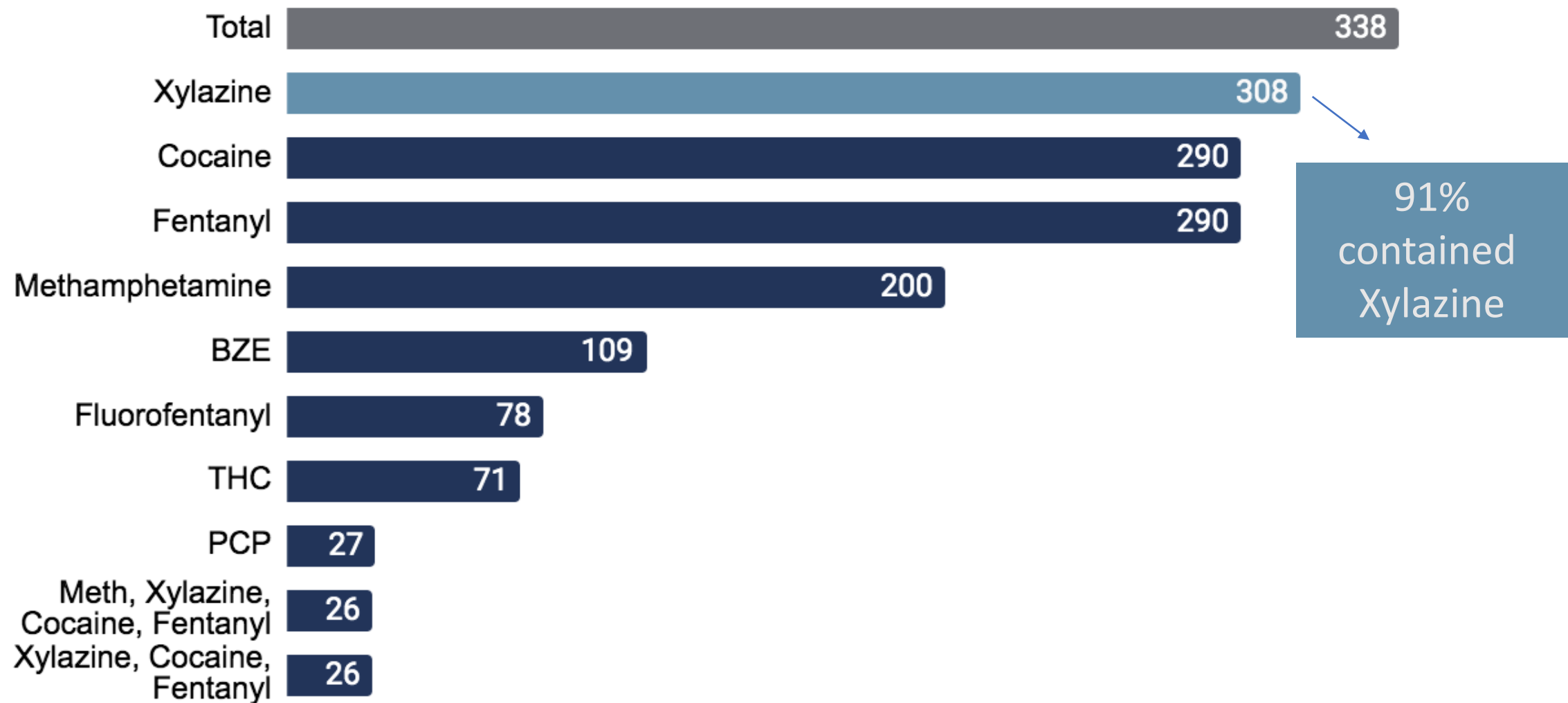


Drug Recognition Expert (DRE) Training

- Participants recruited in Kensington
- Data Collected:
 - Reported use
 - Cheek swab

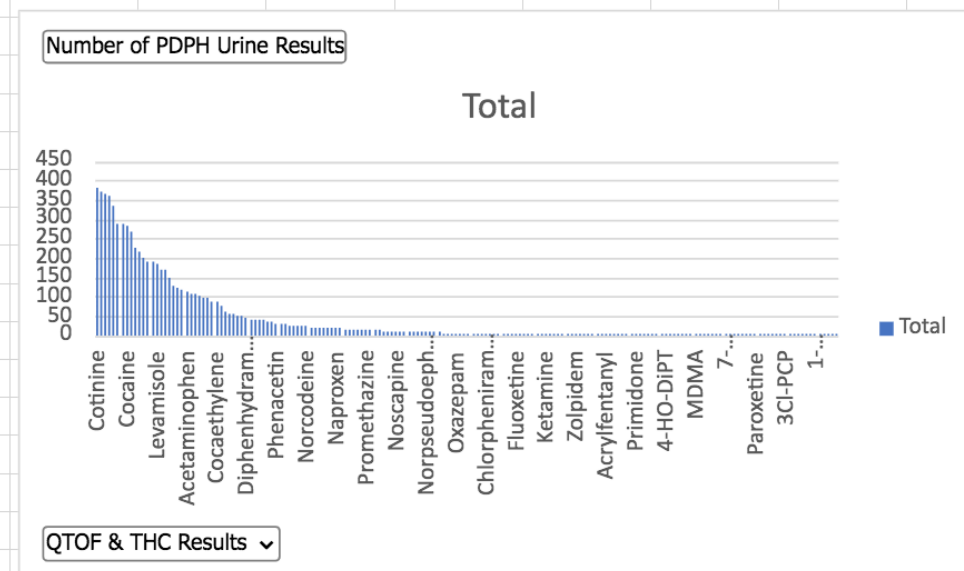
| SUBJECT REPORTED USE | TOX RESULTS FROM CFSRE |
|-------------------------|--|
| CRACK JUST NOW | Methamphetamine, Xylazine, BZE, Cocaine, Cocaethylene, Fentanyl |
| FENT/TRANQ 15 MIN | Amphetamine, Methamphetamine, Xylazine, Cocaine, Fentanyl, Fluorofentanyl |
| METH/DOPE 30 MIN | Amphetamine, Methamphetamine, Xylazine, Cocaine, Fentanyl, Fluorofentanyl |
| DOPE 30 MIN | Methamphetamine, Xylazine, BZE, Cocaine, Fentanyl, Fluorofentanyl |
| DOPE JUST NOW | Methamphetamine, Xylazine, BZE, Cocaine, Cocaethylene, Fentanyl |
| DOPE LESS THAN HOUR AGO | Methamphetamine, Xylazine, Tramadol, BZE, Cocaine, Cocaethylene, Fentanyl |
| HEROIN 30 MIN | Amphetamine, Methamphetamine, Xylazine, Cocaine, Fentanyl |
| DOPE JUST NOW | Methamphetamine, Xylazine, Tramadol, BZE, Cocaine, Fentanyl |
| HEROIN 30 MIN | Amphetamine, Methamphetamine, Xylazine, Cocaine, Fentanyl |
| FENT/COKE 15 MIN | Methamphetamine, Xylazine, BZE, Cocaine, Fentanyl, Fluorofentanyl |
| FENT HOUR AGO | Methamphetamine, Xylazine, Diphenhydramine, Cocaine, Methadone, Fentanyl, Fluorofentanyl |
| COKE/FENT 25 MIN | Amphetamine, Methamphetamine, Xylazine, Cocaine, Fentanyl, Fluorofentanyl |
| HEROIN 20 MIN | Amphetamine, Methamphetamine, Xylazine, Cocaine, Fentanyl, Fluorofentanyl |

Substances Identified in DRE samples (April-June 2023)

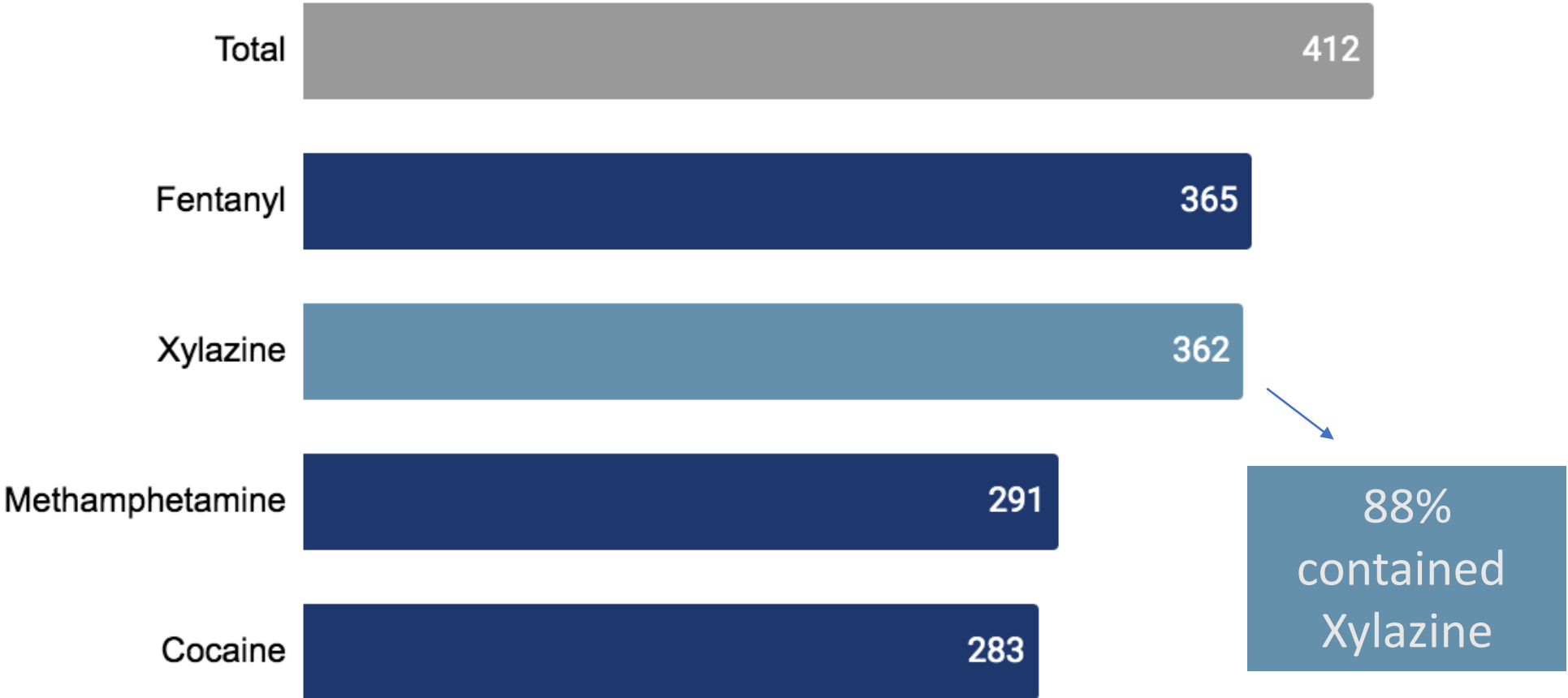


PAD Program UDS - 2022

| QTOF & THC Results | Number of PDPH Urine Results | PDPH Urine Results |
|-----------------------------------|------------------------------|--------------------|
| Cotinine | 381 | 92% |
| Norfentanyl | 369 | 90% |
| Fentanyl | 365 | 89% |
| Xylazine | 362 | 88% |
| 4-ANPP | 334 | 81% |
| Methamphetamine | 291 | 71% |
| Benzoylcegonine | 288 | 70% |
| Cocaine | 283 | 69% |
| para-fluorofentanyl | 269 | 65% |
| Norcocaine | 225 | 55% |
| Lidocaine | 218 | 53% |
| Tramadol | 199 | 48% |
| Monoethylglycinexylidide | 191 | 46% |
| Despropionyl ortho-Fluorofentanyl | 191 | 46% |
| Levamisole | 184 | 45% |
| bipiperidiny 4-ANPP | 172 | 42% |
| Amphetamine | 168 | 41% |
| EDDP | 151 | 37% |
| Methadone | 127 | 31% |
| O-Desmethyltramadol | 123 | 30% |
| N-methyl Norfentanyl | 117 | 28% |
| Acetaminophen | 111 | 27% |
| beta-hydroxy Fentanyl | 106 | 26% |
| Morphine | 105 | 25% |
| Carboxy-THC | 103 | 25% |
| Quinine | 98 | 24% |



Substances identified in PAD UDS 2022



Counterfeit Pills

- Types: Oxycodone M30, Adderall, Xanax
 - Fentanyl and Methamphetamine
- Dark Web and Social Media
- Pill Presses



Counterfeit Pills

WHAT ARE COUNTERFEIT PILLS?

Counterfeit pills are fake medications that have different ingredients than the actual medication. They may contain no active ingredient, the wrong active ingredient, or have the right ingredient but in an incorrect quantity. Counterfeit pills may contain lethal amounts of fentanyl or methamphetamine and are extremely dangerous because they often appear identical to legitimate prescription pills, and the user is likely unaware of how lethal they can be.

WHAT IS THEIR ORIGIN?

The majority of counterfeit drug production occurs in other countries, mainly China, Mexico, and India. Furthermore, an increasing number of pills laced with fentanyl are being produced in the U.S. Mexican and domestic drug trafficking organizations operating in the U.S. produce counterfeit pills with pre-made chemicals and drugs from China and/or Mexico. They are usually produced in substandard conditions, labeled incorrectly, and may include dangerous, unapproved substances. There are no quality control mechanisms in the illicit labs producing counterfeit pills to ensure dosing is not lethal. Online sales via internet marketplaces and social media are the major sources for obtaining counterfeit pills.

A significant number of high school and college students purchase Adderall and Xanax from dark web drug markets and/or through social media referrals¹, which market deadly versions of these drugs tainted with fentanyl and/or methamphetamine. Some students begin using prescription stimulants, often referred to as "study drugs," in the belief it will benefit their academic performance, but the nonmedical use of prescription stimulants has not been proven to improve academic performance¹.



Left: Authentic oxycodone M30 tablets (top) vs. counterfeit oxycodone M30 tablets containing fentanyl (bottom). Center: Authentic Adderall tablets (top) vs. counterfeit Adderall tablets containing methamphetamine (bottom). Right: Authentic Xanax tablets (white) vs. counterfeit Xanax tablets containing fentanyl (yellow).

What are common street names?

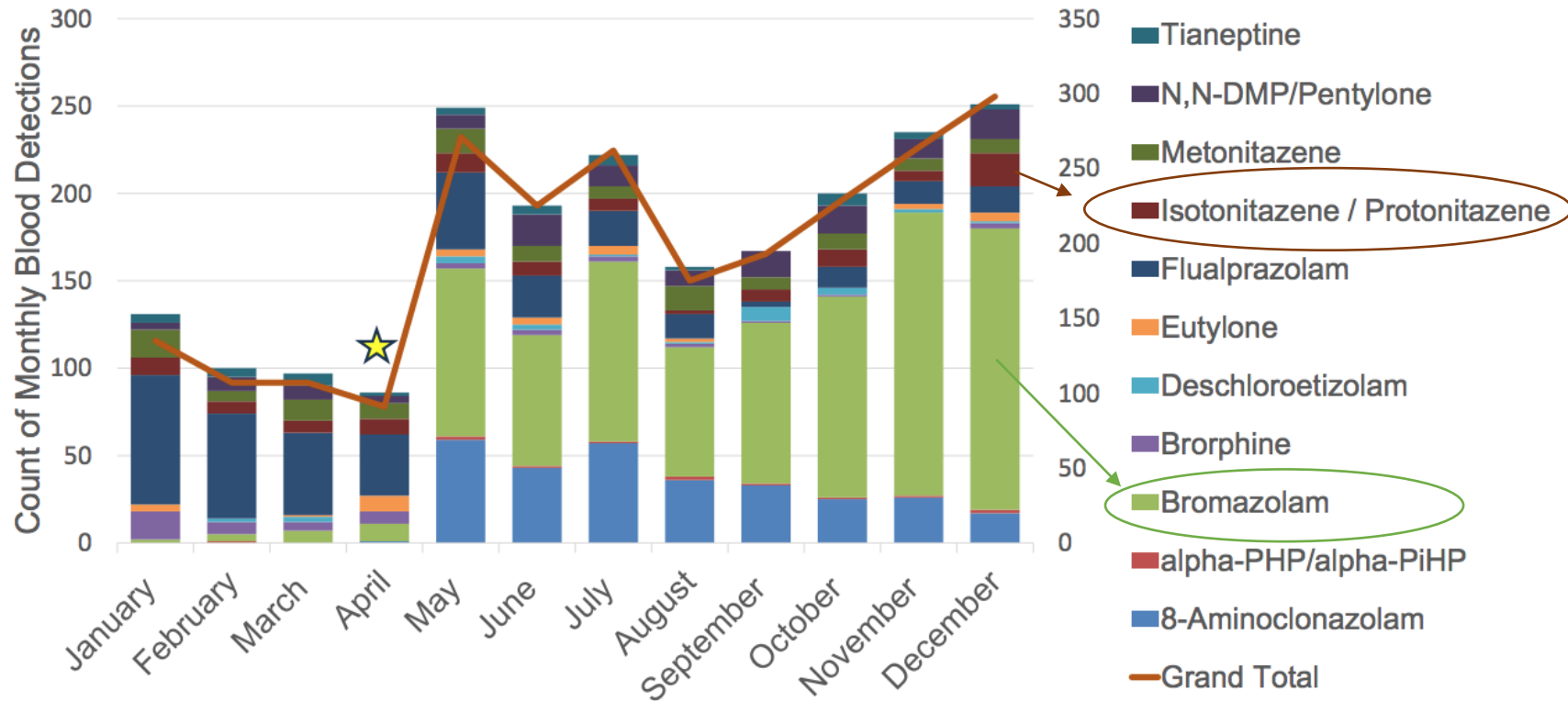
Counterfeit oxycodone M30 pills: Mexican Blues, Blues, M-Boxes

1. Moyal L, Childs A, Coomber R, Barakat M. #DrugsForSale: An exploration of the use of social media and encrypted messaging apps to supply and access drugs. *Int J Drug Policy*. 2019 Jan;63:101-110. doi: 10.1016/j.drugpo.2018.08.001. Epub 2018 Oct 7. PMID: 30530752.

2. University of Rhode Island. "ADHD drugs do not improve cognition in healthy college students." *ScienceDaily*. ScienceDaily; 19 July 2018.

Novel Psychoactive Substances (NPS)

NMS Labs and CFSRE, nationwide, 2022



| | Analyte | Analysis Approvals | Confirmation Rate |
|------------|---|--------------------|-------------------|
| Benzo | Bromazolam | 615 | 95% |
| | Flualprazolam | 307 | 94% |
| | 8-Aminoclonazolam | 150 | 85% |
| | Deschloroetizolam | 24 | 71% |
| Stimulant | <i>N,N</i> -DMP ¹ / Pentylone | 81 | 95% |
| | Eutylone | 24 | 75% |
| | alpha-PHP/ alpha-PiHP ² | 8 | 75% |
| NPS Opioid | Isotonitazene / Protonitazene ³ | 64 | 84% |
| | Metonitazene | 46 | 87% |
| | Tianeptine | 32 | 91% |
| | Brorphine | 23 | 87% |

Table 1. Compound confirmation rates

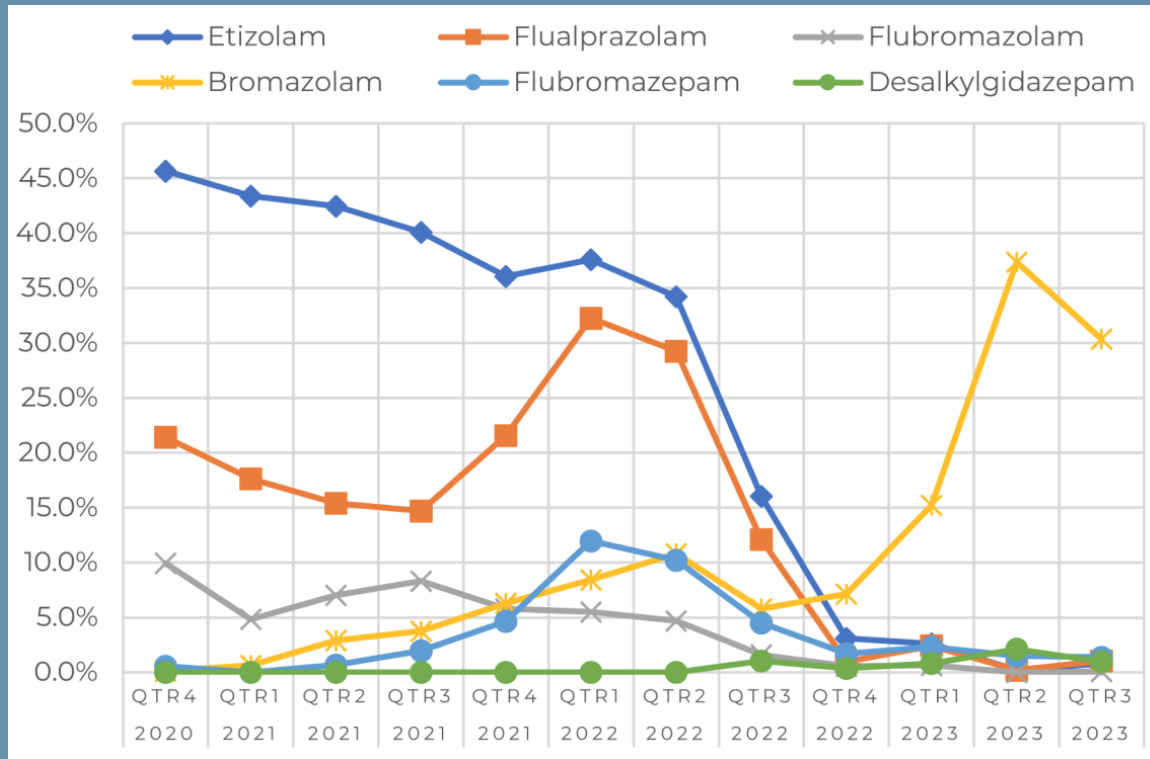
¹*N,N*-DMP and pentylone are grouped together as parent & metabolite

²alpha-PHP/alpha-PiHP reported as isomer pair, not chromatographically separated on TOF or LC-MS/MS confirmation

³Isotonitazene and protonitazene not separated on TOF screen

Designer Benzodiazepines - Bromazolam

Powder and pill form, mixed with heroin or fentanyl
 Combined with opioids: "Benzo Dope"





WHAT IS BROMAZOLAM?

Street Name: "Benzo Dope"



Overview
 Bromazolam is a synthetic designer benzodiazepine. Designer benzodiazepines are a public health concern due to their high potency and combination with illicit opioids. Designer benzodiazepines can appear in a variety of preparations (powder, liquid, counterfeit pills).¹



Emergence of Designer Benzodiazepines

- A new addition to the illicit drug supply is the presence of synthetic benzodiazepine-faced opioids, referred to as "benzo dope".¹
- The sedative effects of benzodiazepines combined with opioids increases the risk for respiratory depression and overdose.²
- In New Jersey, bromazolam has been identified in suspected heroin and pill form. Pills testing for bromazolam often mimic counterfeit Xanax or Alprazolam.

In 2022, fentanyl was detected in

97%

of suspected heroin containing bromazolam.
 New Jersey State Police,
 Office of Drug Monitoring & Analysis (October 2023)



Bromazolam has been identified in illicit drug samples in **18 of 21** New Jersey counties.

Use of Naloxone for ALL Suspected Overdoses

- Naloxone will not reverse the effects of benzodiazepines but should still be administered because it will reverse the effects of any opioids present.
- Bromazolam and other designer benzodiazepines are commonly found in combination with fentanyl.



¹ The Center for Disease Control Prevention & Education, Benzodiazepine Medication: Beyond Access the United States to Get to Help by Following Certain Steps, *Antisocial Fentanyl* (June 2020).

² National Institute of Drug Abuse, *Benzodiazepines and Opioids* (November 2020).

Request for Information and Contact Information: Any agency with additional information regarding this topic, or with questions about this product, may contact the Drug Monitoring Initiative (DMI), Office of Drug Monitoring & Analysis at DMI@njssp.gov.

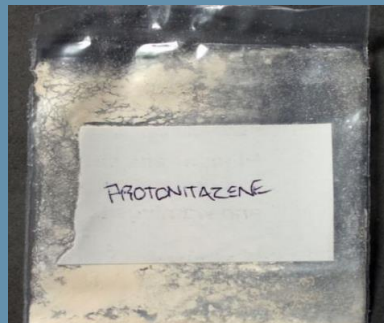
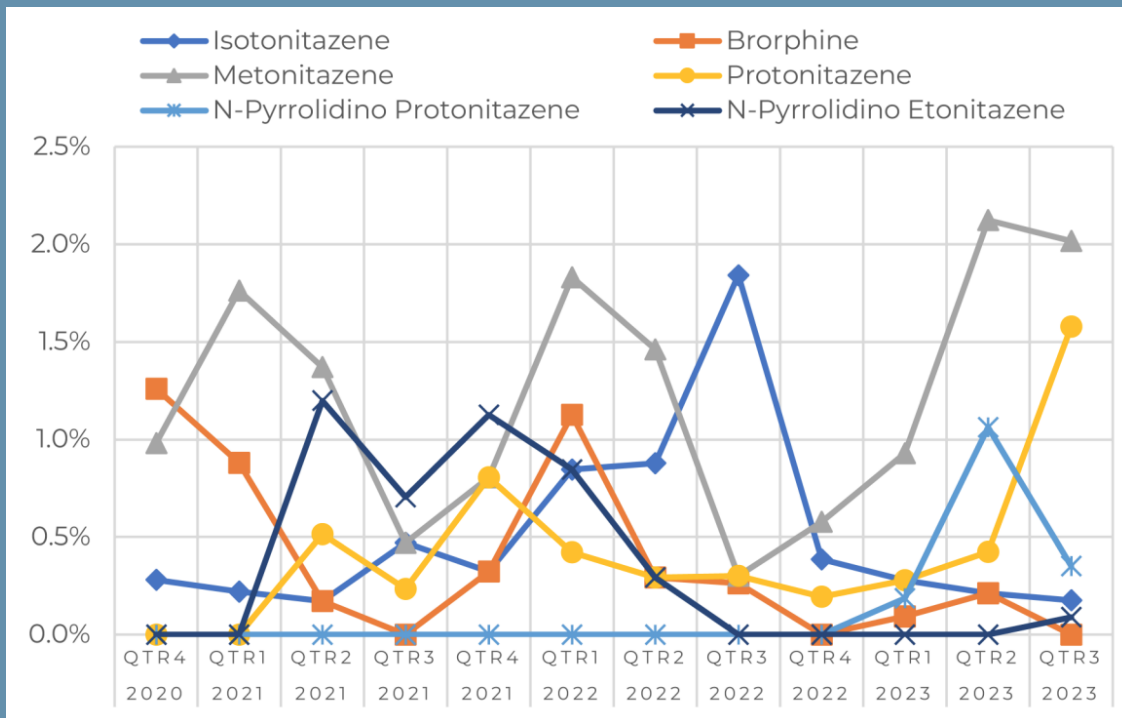
ROIC202309-281500


October 2023

Nitazenes / Novel Synthetic Opioids (NSO)


Potent analgesic (painkiller) and sedative properties

- Powder and pill form
- Example: Protonitazene, Isotonitazene






WHAT ARE NITAZENES?




Overview
Nitazenes and their analogs are synthetic novel opioids with a potency similar to, or greater than, the potency of fentanyl. Nitazenes can appear in a variety of colors and preparations (powder, liquid, counterfeit pills). The Drug Enforcement Administration (DEA) has classified ten nitazene analogs as Schedule I drugs.



The Presence of Nitazenes in the Illicit Market
The Drug Enforcement Administration (DEA) has warned that nitazene analogs are being used to make drugs more potent and cheaper to produce. DEA forensic laboratories have identified the mixing of nitazene analogs with fentanyl/heroin and marketed as common street drugs.¹

Nitazenes were first analyzed in New Jersey in 2021. The chart below shows suspected heroin cases containing nitazenes in the state.²



Scheduled nitazene analogs include:

- Butonitazene
- Clonitazene
- Etodesnitazene*
- Etonitazene
- N-pyrrolidino* etonitazene
- Isotonitazene*
- Metodesnitazene
- Metonitazene*
- Flunitazene
- Protonitazene*

* Identified in New Jersey's drug environment.

Recommendations for Law Enforcement
First responders should approach all suspected overdose victims and drug seizures as though fentanyl or other opioids are present. Naloxone is effective in reversing nitazene-related overdoses. Multiple doses may be needed based on symptoms of victim.

¹ Drug Enforcement Administration, New, Dangerous Synthetic Opioid in D.C. Emerging in Tri-State Area (June 2022).

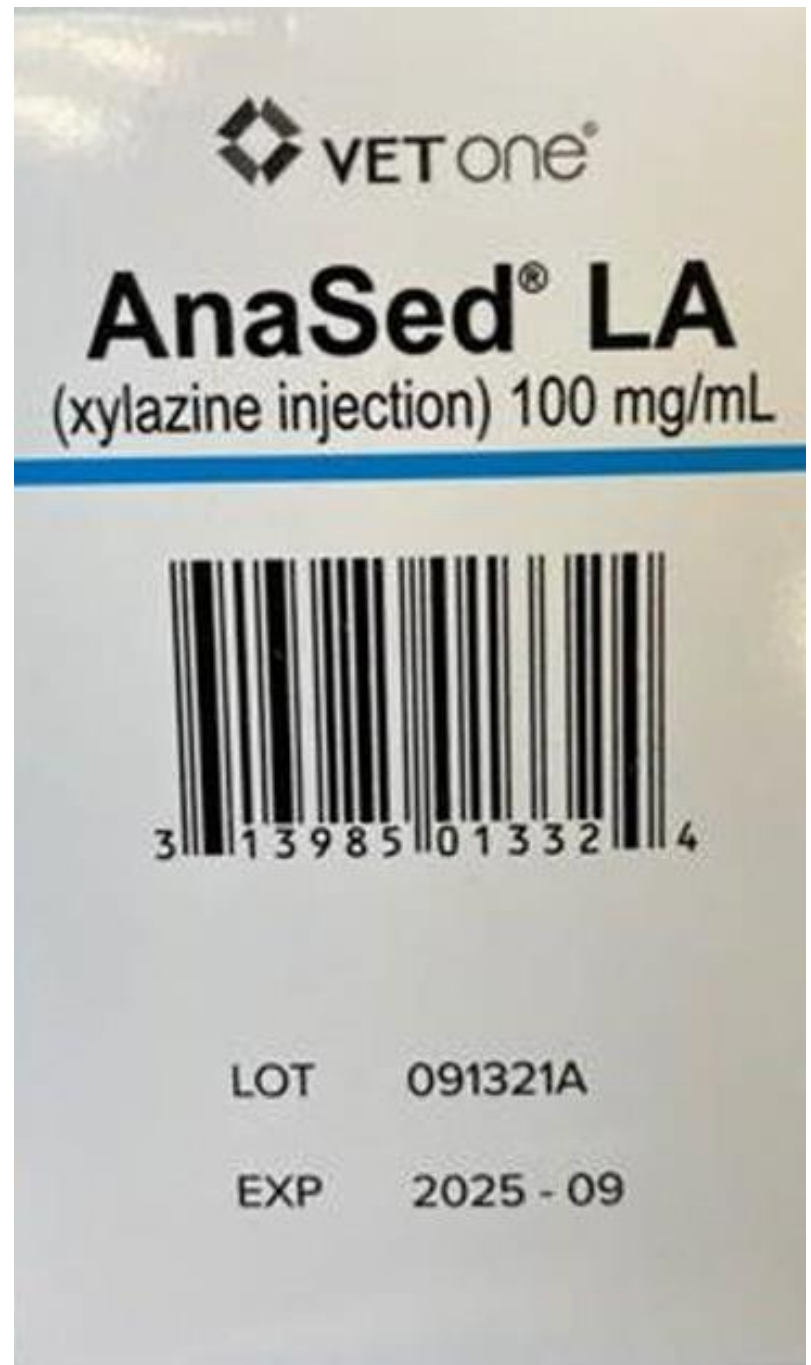
² New Jersey State Police, Office of Drug Monitoring & Analysis (August 2023).

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ROIC202308-22596D September 2023

History of Xylazine in Philadelphia

- Early 2000s: First detection in Puerto Rico
- 2006: First detection in Philadelphia
- Philadelphia ties to Puerto Rico
- 2018-2019: 73% increase in xylazine detections in drug overdose deaths



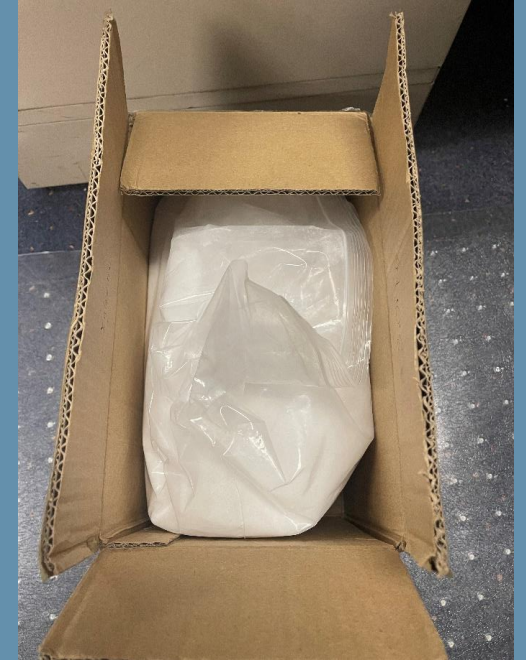
Drug Mill House



Xylazine in Philadelphia (2023)

- Seizures:
 - FY2023: Customs and Border Patrol (CBP) seized 12.24 kg powder destined for Philadelphia from China
 - 53 bottles (~ 1 kilogram) destined for Philadelphia from Dominican Republic
- June 3, 2023: PA adds Xylazine to a list of Schedule III drugs under PA Controlled Substance Act (Title 35)
- Increasing problems with wounds and withdrawal symptoms
- Naloxone and rescue breathing!

Recent Case Example:



January 2023: 20-year prison sentence was given for a 2020 case that involved a controlled delivery of Xylazine (via FedEx) leading to a seizure of 2.7 kilograms of fentanyl, cash, and various weapons.



NPS Discovery Drug Checking Project

- Philadelphia Dept. Public Health and CFSRE
- 219 Samples May – Sept 2022 (Q3)
- Polysubstance
- 91% of "Dope" included fentanyl and xylazine
- Xanax tablets containing clonazepam (Designer Benzo)

Purpose: This report provides up-to-date information regarding the drug supply in Philadelphia, Pennsylvania, United States of America, and is our first Quarterly Drug Checking Report to include quantitative data on the purity of fentanyl, xylazine, cocaine, methamphetamine, and more.

Overview: Traditional drugs (e.g., heroin, fentanyl, cocaine, methamphetamine) are commonly identified among drug samples in cities across the United States, albeit at varying purities and combinations. Novel psychoactive substances (NPS) continue to appear within the drug supply, masked as traditional drugs or added to traditional drug preparations. Nationally, the drug supply remains a dynamic and evolving environment, especially relating to primary active drug components and cutting agents or adulterants added to drug preparations. The drug supply and drug use trends can be different from city to city or even within a given community, requiring specific regional or local assessments. Accurate understanding of drug materials and the drug supply in real-time is imperative for effective public health and public safety preparedness and response.

Objective: A partnership between the Center for Forensic Science Research and Education (CFSRE) and the Philadelphia Department of Public Health (PDPH) has been established to accurately assess the drug supply in Philadelphia, Pennsylvania. This initiative was established as a comprehensive effort examining various drug materials and drug forms. Select drug testing results from samples obtained within the city were compiled for preparation of this report. The results reported herein represent a subset of the drug supply and not its entirety.

Acknowledgements: This report was prepared by Alex J. Krotulski, PhD; Jen Shinefield, MS; Joshua DeBord, PhD; Daniel Teixeira da Silva, MD; and Barry K. Logan, PhD, FABFT. The authors acknowledge CFSRE and PDPH personnel for their contributions and involvements. This work is funded by the Centers for Disease Control and Prevention (CDC) through an Overdose Data to Action grant awarded to the city of Philadelphia. The opinions, findings, conclusions, and/or recommendations expressed in this publication are those of the authors and do not necessarily reflect those of the CDC or other federal, state, local, or private agencies. For more information about drug checking services or NPS Discovery, please contact publichealth@phila.gov or visit www.cfsre.org.

Summary and Key Findings:

- 219 samples were tested between May and September 2022
- Fentanyl-xylazine (tranq-dope) proportions varied greatly
- The average fentanyl purity was 11.7% (range: 0.3-34.8%)
- The average xylazine purity was 33.8% (range: 0-64.8%)
- Most dope samples (91%) contained fentanyl and xylazine
- Synthetic cannabinoids remain dynamic and unpredictable
- Counterfeit Xanax tablets tested positive for clonazepam
- Cocaine purity varied greatly (average: 37.8%, range: 0.2-91.8%)

| Date | Suspected | Drugs Identified |
|-----------|-----------|---|
| 9/13/2022 | Dope | Fentanyl (18.4%), Xylazine (26.9%), 4-ANPP (10.6%) [CPI=1.84] |
| 9/21/2022 | Dope | Fentanyl (6.6%), Xylazine (40.5%), 4-ANPP (1.0%), Procaine, Caffeine [CPI=0.69] |
| 9/21/2022 | Dope | Fentanyl (7.7%), Xylazine (32.4%), para-Fluorofentanyl (0.3%), 4-ANPP (0.7%) [CPI=0.78] |
| 9/21/2022 | Dope | Fentanyl (7.8%), Xylazine (26.6%), 4-ANPP (1.5%) [CPI=0.78] |
| 9/21/2022 | Dope | Fentanyl (8.2%), Xylazine (58.4%), 4-ANPP (0.6%) [CPI=0.82] |
| 9/21/2022 | Dope | Fentanyl (8.3%), Xylazine (26.3%), 4-ANPP (1.6%) [CPI=0.83] 1 |
| 9/21/2022 | Dope | Fentanyl (8.8%), Xylazine (30.1%), 4-ANPP (1.7%) [CPI=0.88] |
| 9/21/2022 | Dope | Fentanyl (10.0%), Xylazine (36.8%), 4-ANPP (1.7%) [CPI=1.00] 2 |
| 9/21/2022 | Dope | Fentanyl (11.2%), Xylazine (43.7%), 4-ANPP (1.7%) [CPI=1.12] |
| 9/21/2022 | Dope | Fentanyl (11.9%), Xylazine (38.0%), 4-ANPP (3.0%) [CPI=1.19] |
| 9/21/2022 | Dope | Fentanyl (13.2%), Xylazine (64.8%), 4-ANPP (2.0%) [CPI=1.22] 3 |
| 9/21/2022 | Dope | Fentanyl (14.3%), Xylazine (21.6%), 4-ANPP (7.7%) [CPI=1.43] |
| 9/21/2022 | Dope | Fentanyl (21.1%), Xylazine (40.2%), 4-ANPP (4.1%) [CPI=2.11] |
| 9/21/2022 | Dope | Fentanyl (18.2%), Xylazine (27.5%), 4-ANPP (8.8%) [CPI=1.82] |
| 9/21/2022 | Dope | Fentanyl (16.8%), Xylazine (54.4%), 4-ANPP (2.4%) [CPI=1.68] |
| 9/21/2022 | Dope | Fentanyl (16.5%), Xylazine (47.3%), 4-ANPP (2.0%) [CPI=1.65] |
| 9/21/2022 | Dope | Fentanyl (16.4%), Xylazine (6.8%), para-Fluorofentanyl (2.4%), 4-ANPP (3.3%), Heroin (trace), Caffeine [CPI=1.72] |
| 9/28/2022 | Dope | Fentanyl (9.7%), Xylazine (60.1%), 4-ANPP (4.8%) [CPI=0.97] |
| 9/28/2022 | Dope | Fentanyl (11.2%), Xylazine (47.5%), 4-ANPP (1.6%) [CPI=1.12] |
| 9/28/2022 | Dope | Fentanyl (13.3%), Xylazine (52.6%), para-Fluorofentanyl (2.4%), 4-ANPP (3.1%) [CPI=1.41] |
| 9/28/2022 | Dope | Fentanyl (13.7%), Xylazine (36.0%), 4-ANPP (2.5%) [CPI=1.37] |
| 9/28/2022 | Dope | Fentanyl (14.3%), Xylazine (19.9%), 4-ANPP (3.9%), Quetiapine [CPI=1.43] 4 |
| 9/28/2022 | Dope | Fentanyl (14.8%), Xylazine (31.0%), 4-ANPP (3.4%), Quetiapine [CPI=1.48] |

--- ADDITIONAL QUANTITATIVE DATA FOR DOPE SAMPLES ON PAGE 4 & BEYOND ---

136 "Heroin" / Dope (Powder in Glassine Bag)

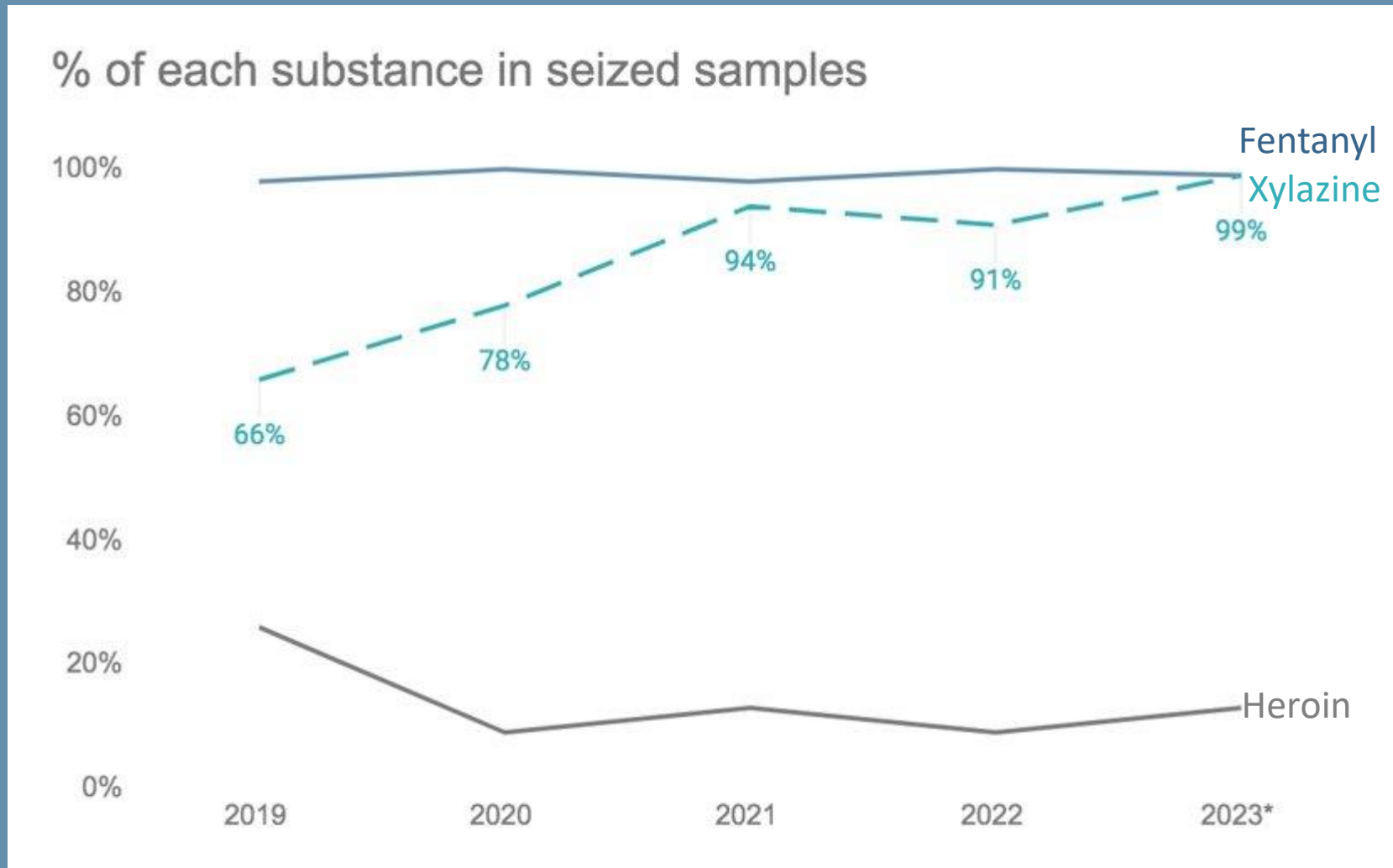
49 Powders / Crystals (E.g., Cocaine, Methamphetamine)

10 Pills / Tablets (E.g., Oxycodone, Xanax, Ecstasy)

24 Other (E.g., Cannabis, K2, "Unknown")



PA Opioid Samples Seized by Law Enforcement



Challenges

- Inconsistent reporting to ODIN, despite legislation
- No centralized repository or format for seizure data
 - Kilos vs. pounds vs. dosage units
 - Liquids vs. Pills
 - Lags in toxicology results
- Metabolites
- What's next?
 - Scheduling --> changes in drug supply
 - Xylazine --> Medetomidine/dexmedetomidine

HIDTA Threat Assessment

UNCLASSIFIED//FOR OFFICIAL USE ONLY

2023

Threat Assessment



Liberty Mid-Atlantic HIDTA
7801 Essington Ave, Suite A
Philadelphia, PA 19153

Jeremiah A. Daley, Director
June 2022

HIDTA Monthly Intelligence Report



LMA HIDTA Monthly Intelligence Report November 2023

Unclassified//Law Enforcement Sensitive

Drug Pricing

| | Fentanyl/Heroin | Methamphetamine | Cocaine | Crack | Other |
|-------|-----------------|-----------------|---------|-------|-------|
| Pill | | | | | |
| Gram | | | | | |
| Ounce | | | | | |
| Pound | | | | | |
| Kilo | | | | | |
| Other | | | | | |

* Prices reflect the range reported for each locale derived from controlled purchases, human source debriefing and investigative data collected during the respective month.
The prices are presented solely as a snapshot of the regional drug environment at the time of publication.
** Fentanyl and heroin pricing has been combined to reflect the changing drug environment

FYI

Investigations

For inquiries, please contact Intelligence Analyst, Amanda DiStefano (distefano@lmahidta.org)

Contact

Tamar Wallace
Wallacet@Imahidta.org

Van Jackson
Jacksonv@Imahidta.org

www.Imahidta.org
<https://orsprogram.org/>



Resources

- <https://www.nmslabs.com/sites/default/files/2022-11/the-rise-and-fall-of-nitazene-analogs-poster.pdf>
- <https://www.nmslabs.com/sites/default/files/2023-11/SOFT-poster-2023-Papsun-100623.pdf>
- <https://www.cfsre.org/nps-discovery/drug-checking/drug-checking-q3-2022-philadelphia-pennsylvania-usa>
- <https://www.whitehouse.gov/ondcp/briefing-room/2023/04/12/biden-harris-administration-designates-fentanyl-combined-with-xylazine-as-an-emerging-threat-to-the-united-states/>
- <https://www.dea.gov/sites/default/files/2021-05/Counterfeit%20Pills%20fact%20SHEET-5-13-21-FINAL.pdf>
- <https://aldianews.com/en/politics/policy/puerto-ricos-air-bridge>
- <https://www.nbcphiladelphia.com/news/local/what-to-do-about-the-heroin-air-bridge-public-hearing-held-in-philly/12278/>

Resources

- <https://www.nmslabs.com/sites/default/files/2022-11/the-rise-and-fall-of-nitazene-analogs-poster.pdf>
- <https://www.phila.gov/media/20231002090544/CHARTv8e3.pdf>
- https://www.ccsa.ca/sites/default/files/2022-03/CCSA-CCENDU-Drug-Alert-Nitazenes-2022-en_0.pdf
- <https://legislativeanalysis.org/wp-content/uploads/2023/09/Nitazenes-Fact-Sheet-FINAL.pdf>
- https://www.dea.gov/sites/default/files/2023-10/FINAL_Operation%20ChemKong%20Press%20Conference%20Remarks%20as%20Delivered.pdf
- https://hip.phila.gov/document/3203/PDPH-HAN_Alert_2_NitazeneAnalogues_12.21.2022.pdf/