

Overdose Death Scene Investigation Training
Bay City, MI
June 3rd, 2025

In Partnership with the Michigan Public Health Institute



Michigan HIDTA

High Intensity Drug Trafficking Areas

- HIDTA Resources
- Current and Emerging Drug Trends





What Is a HIDTA?

We are not the **HYTA**
(Holmes Youthful Trainee Act)
MCL - Section 762.11



What Is a HIDTA?

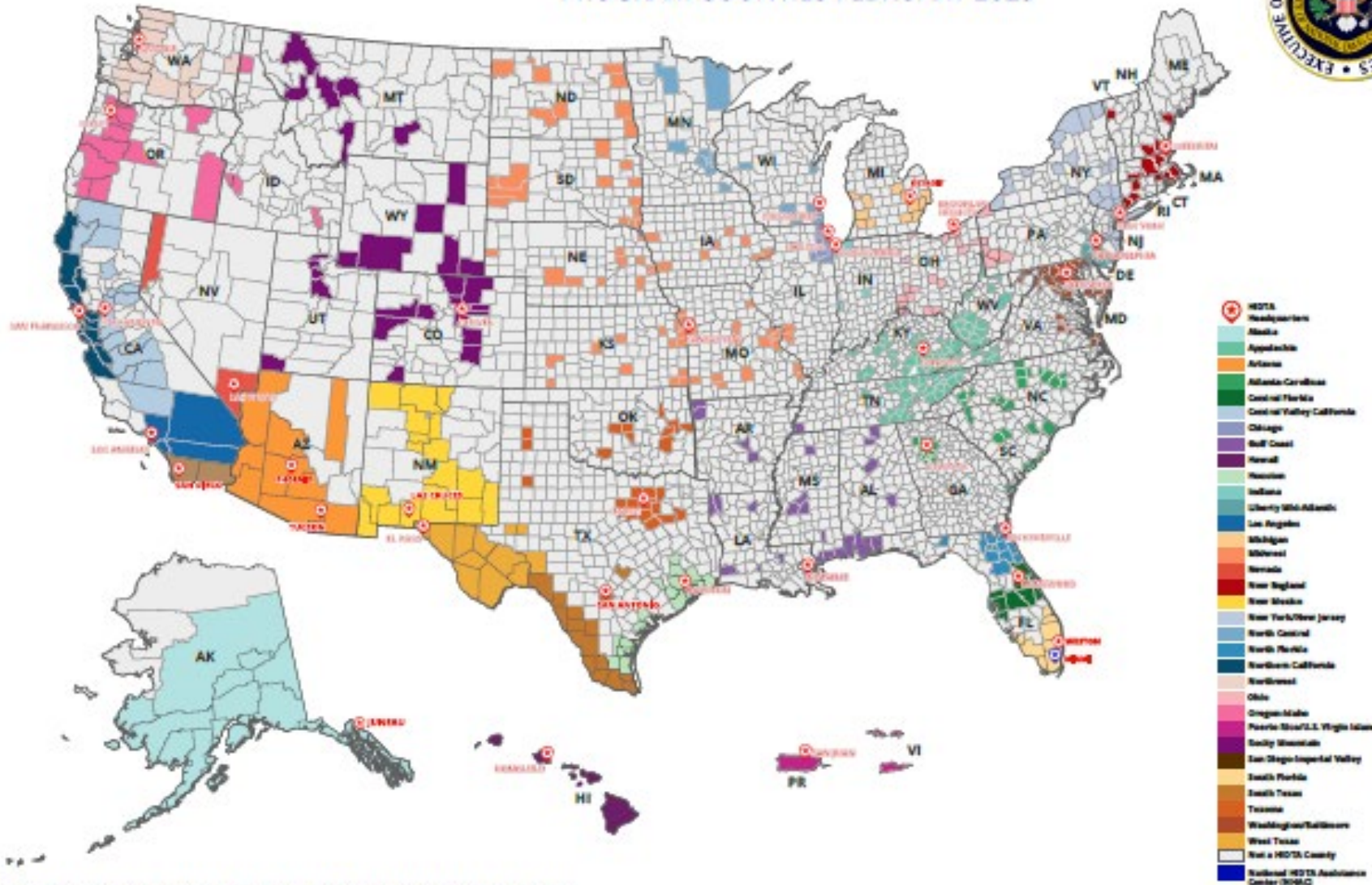
A PARTNERSHIP OF FEDERAL, STATE, LOCAL AND TRIBAL LAW ENFORCEMENT AGENCIES

- From critical drug trafficking regions of the United States
- That have joined together to receive federal grant funds
- To facilitate specific drug control issues

A **PROGRAM** of the federal government administered out of ONDCP

REPRESENTED by Federal, State, Local & Tribal Law Enforcement Agencies

HIGH INTENSITY DRUG TRAFFICKING AREAS (HIDTA) PROGRAM COUNTIES FEBRUARY 2025



Source: Office of National Drug Control Policy, High Intensity Drug Trafficking Areas Program (HIDTA), February, 2025.

- Are 33 HIDTAS Nationwide**
- Covers 70% of the Nation's Population**
- 23% of U.S. counties have HIDTA designation**
- Involves 22,600+ Personnel**
- Funds 1,500+ Public Safety Positions**

Investigative Support and Deconfliction Center

FBI, DEA, HSI/ICE, BP, ATF, IRS, Michigan National Guard, HIDTA, MSP, DSEMIIC, Detroit Police, Livonia Police, Railroad Police, and Defense Counterintelligence Agency



OD Re-C.A.P.


Overdose Report Collection and Analysis Program



- **Fatal and Non-Fatal** Overdose Incident Reports are submitted by participating local departments to a secure, CJIS compliant, dedicated inbox at the Michigan HIDTA.
- 60+ jurisdictions participating.
- Incident reports are run through a series of databases to case match with the goal of linking victims to dealers across jurisdictions.
- We do not enter minors, suicide attempts or incidents with suspected substance of primarily alcohol or over-the-counter medications.
- **2024:** Michigan HIDTA ISDC processed **506** submitted overdose incidents. **139** valid matches occurred from these reports (**27.4%**).
- **2023:** Michigan HIDTA ISDC processed **903** submitted overdose incidents. **173** valid matches occurred from these reports (**19%**).
- **2022:** **1,116** processed incident reports with **154** valid matches (**14%**).
- **E-mail address will be sent to LE after today's conference.**

DECONFLICTION FORMS





MICHIGAN HIDTA
Investigative Support and Deconfliction Center

Email: [REDACTED]

**EVENT
DECONFLICTION
REQUEST FORM**

Submit this form to request deconfliction services, which consist of querying the HIDTA database for law enforcement activities which will occur at the same DATE, TIME AND LOCATION as the event you are reporting on this form.

All other HIDTA-provided services must be submitted on an Intel Request Form.

- Submit your request to HIDTA via email or telephone. You will be contacted only if your submission results in a valid Conflict or Match, or if staff has a question about your submission. Please complete all applicable fields.
- Submit your request a minimum of 24-hours in advance of the Event if possible. SWEEPS should be submitted several days in advance.

EVENT To Be Deconflicted	Agency/Initiative: DEA - Tactical Diversion (TDS) Date Submitted: date sent to HIDTA
	Agency Case #: 17-23-1234 Event Type: SEARCH WARRANT
	Start Date: 12-18-2023 Start Time: 0900 End Date: 12-18-2023 End Time: 1700
	Event Address/Location: 12345 Any St
Street Name Type: STREET Street Name Direction/If Any: SELECT ONE	
Apartment/Unit/Building #: _____ Closest Cross Street: Third Avenue SE	
City: Anytown State: Michigan Zip Code: 49999	

Contact Info.	Rank/Full Name: TFO Jane Sample
	E-Mail Address: Jane.Sample@dea.gov
	Direct Tx. # (Include Area Code): (248) 222-2222 Cell/Other Tx. #: (586) 777-7777
	Supervisor's Name: GS Angela Greene Supervisor's Tx. #: (810)555-5555

HIDTA USE ONLY

MHE #: _____ Entered By: _____


Run Date/Time: _____ Results - Valid Conflict/Match: YES NO

Who Notified Agency 1: _____ Date/Time: _____

Who Notified Agency 2: _____ Date/Time: _____

NOTES: _____

LAW ENFORCEMENT SENSITIVE (LES)



MICHIGAN HIDTA
Investigative Support and Deconfliction Center

Email to: [REDACTED]

**INTEL
REQUEST FORM**

Law Enforcement Sensitive

CASE MATCHING: I request Case Explorer case matching services on the Entity information submitted below.

INTEL REQUEST: I request an Intelligence product on the Entity information submitted below. I have indicated on the lines below SPECIFICALLY what information I need.

Case Information	Agency Case #: 17-23-1234 Agency/Initiative: DEA - TDS
	Date Case Opened: 01-01-2022 Disposition: OPEN Investigation Type: DRUG
	Involved Crime: DANGEROUS DRUGS Date Submitted: Date sent to HIDTA

Contact Information	Rank/Full Name: TFO John Sample
	E-Mail Address: John.Sample@dea.gov
	Direct Tx. # (Include Area Code): 734-123-4567 Cell/Other Tx. # (Include Area Code): 810-555-1234
	Agency: DEA-Detroit Supervisor's Name: GS Angela Greene Supervisor's Tx. #: cell 810-555-5555

For Intelligence requests, in the area below, detail SPECIFICALLY what information you need in regard to the Entities provided. For case matching submissions a narrative is not required.

ENTITIES

Drug: Select One Primary Drug Involved in This Request: **PRESCRIPTION DRUGS**

People: Involvement: **SUSPECT** Complete Name: **John Samuel Smith**
 Name Suffix: **SELECT ONE** Sex: **MALE** Moniker/Alias: **"Smitty"**
 Race: **WHITE** Exact DOB: **01-01-1970** Social Security #: **555-55-5555**
 FBI #: _____ State ID #: **SID#** Local ID #: _____

Place or Address: **last known address** City: _____

Location: State: _____ Closest Cross Street: _____

Thing: Data Type: **CELLULAR PHONE** Numerical Value (Sn, Tx #, etc.): **1234567890**

Vehicle: Year: **2012** Make: **Ford** Model: **Escort**
 License Plate/State: **ABC1234** and/or VIN: **ab1cde23fg4567**

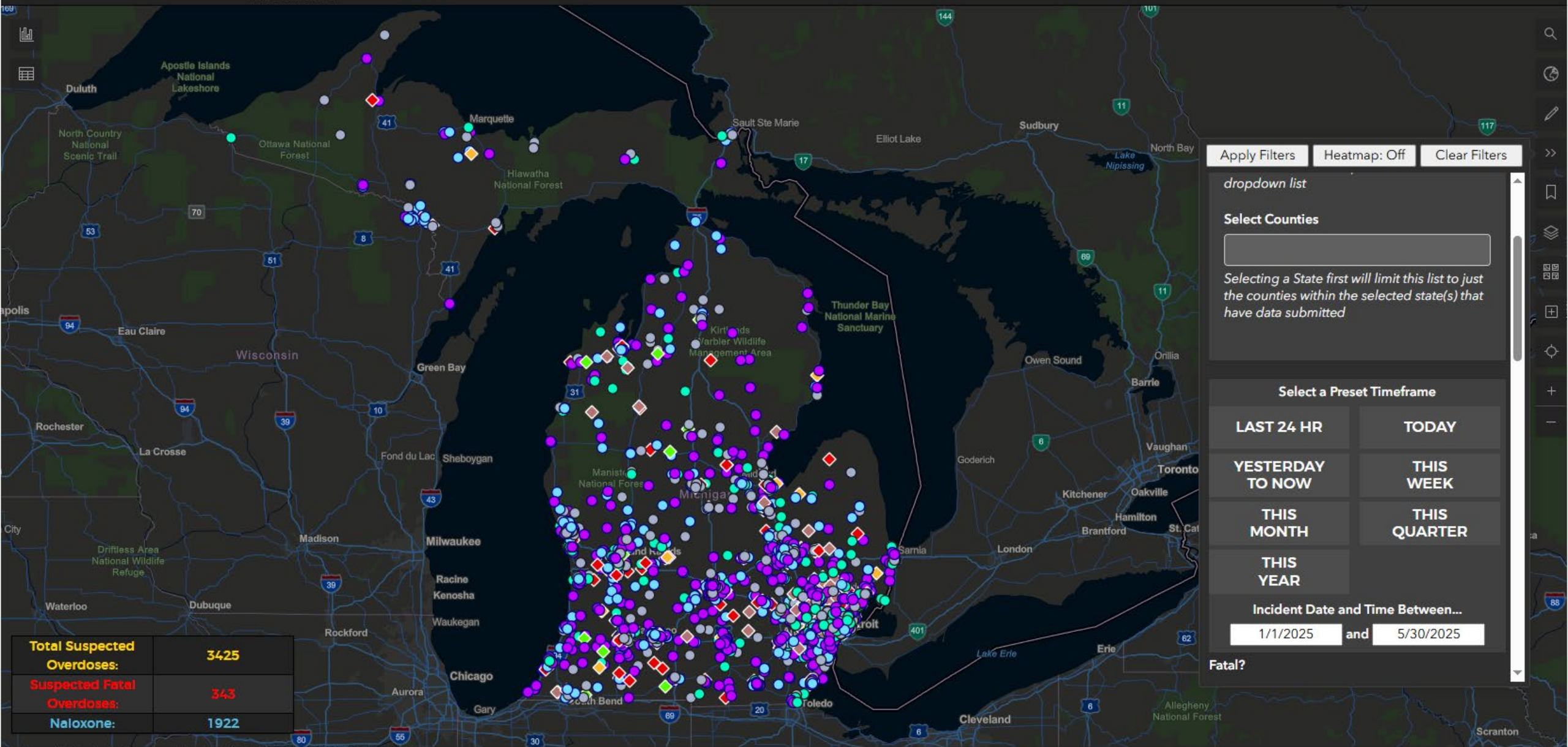
Weapon: Make: _____ Model: _____ Serial # ONLY: _____

HIDTA USE ONLY

MHC #: _____ Served By: _____ Search Date/Time: _____

Who Notified of Results: _____ How Notified, Date/Time: _____

Notes: _____



Total Suspected Overdoses:	3425
Suspected Fatal Overdoses:	343
Naloxone:	1922

Kent, Michigan Spike Alert



odmap@wb.hidta.org

To Robert Kerr; mhutton@wb.hidta.org; azapata@wb.hidta.org; aburrell@wb.hidta.org; yradchenko@wb.hidta.org

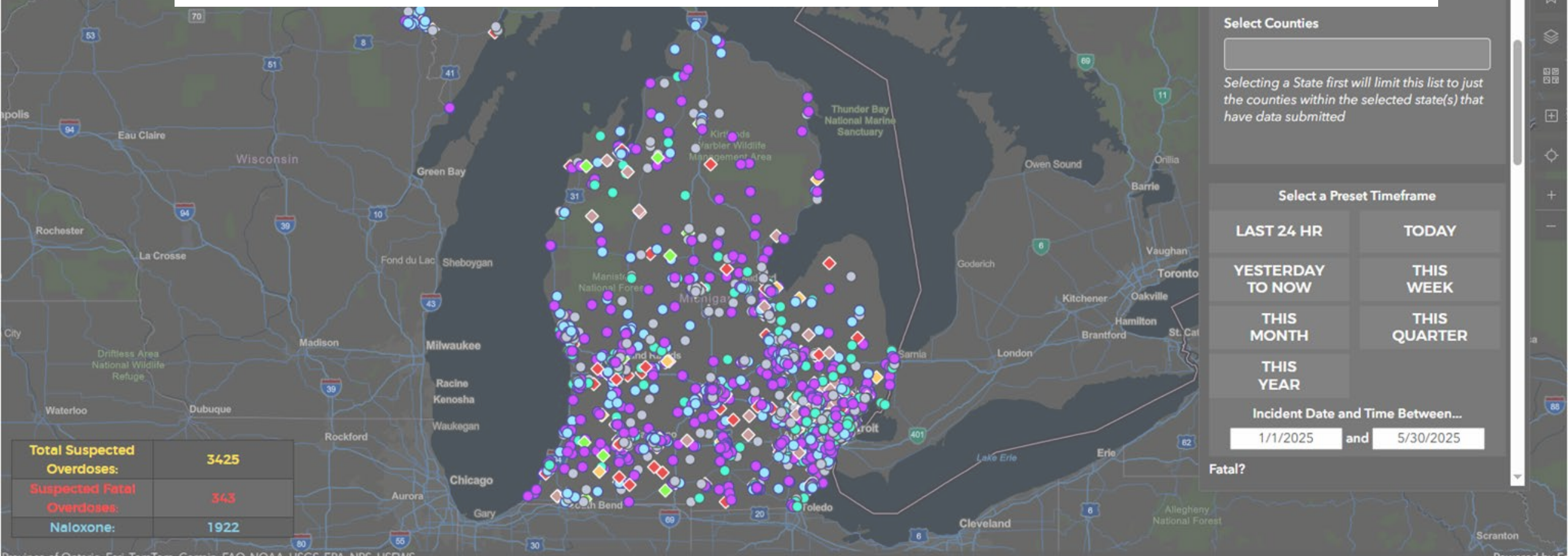
Reply
 Reply All
 Forward

Wed 5/28/2025 11:11 PM

Kent, Michigan is in a spike. There have been 3 total overdose incidents in the last 24 hours.

Currently your spike alert threshold is 3 overdose incidents in 24 hours.

This spike alert was requested by the Michigan HIDTA.



Select Counties

Select a State first will limit this list to just the counties within the selected state(s) that have data submitted

Select a Preset Timeframe

Incident Date and Time Between...

and

Fatal?

Kent, Michigan Spike Alert



odmap@wb.hidta.org

To Robert Kerr; mhutton@wb.hidta.org; azapata@wb.hidta.org; aburrell@wb.hidta.org; yradchenko@wb.hidta.org

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Reply
 Reply All
 Forward

Thu 5/29/2025 6:44 PM

Kent, Michigan is **STILL** in a spike. There have been 6 total overdose incidents since your spike started.

Currently there are 5 overdose incidents in the last 24 hours. Your spike alert threshold is 3 overdose incidents in 24 hours.

This spike alert was requested by the Michigan HIDTA.

Total Suspected Overdoses:	3425
Suspected Fatal Overdoses:	343
Naloxone:	1922

THIS MONTH THIS QUARTER
 THIS YEAR
 Incident Date and Time Between...
 1/1/2025 and 5/30/2025
 Fatal?

Kent, Michigan Spike Alert



odmap@wb.hidta.org

To Robert Kerr; mhutton@wb.hidta.org; azapata@wb.hidta.org; aburrell@wb.hidta.org; yradchenko@wb.hidta.org

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 Reply All
 Forward

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Kent, Michigan is STILL in a spike. There have been 6 total overdose incidents since your spike started.

Currently there are 5 overdose incidents in the last 24 hours. Your spike alert threshold is 3 overdose incidents in 24 hours.

This spike alert was requested by the Michigan HIDTA.

Kent, Michigan Spike Alert Ended



odmap@wb.hidta.org

To Robert Kerr; mhutton@wb.hidta.org; azapata@wb.hidta.org; aburrell@wb.hidta.org; yradchenko@wb.hidta.org

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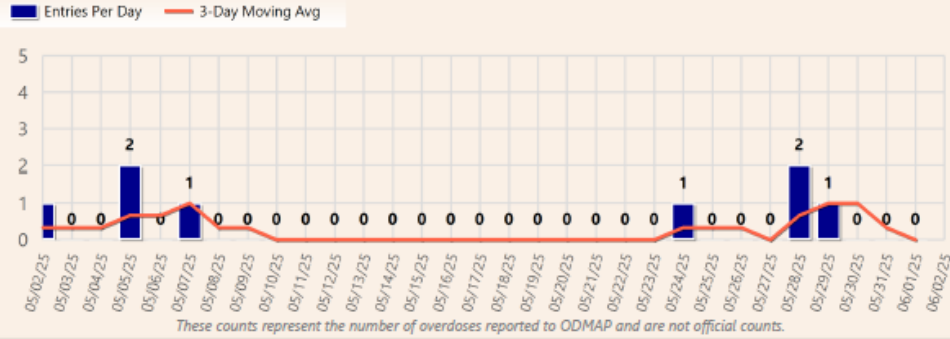
Fri 5/30/2025 12:43 AM

Kent, Michigan spike alert has ended.

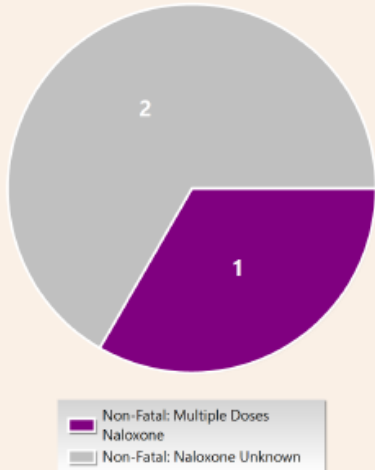
This spike alert was requested by the Michigan HIDTA.



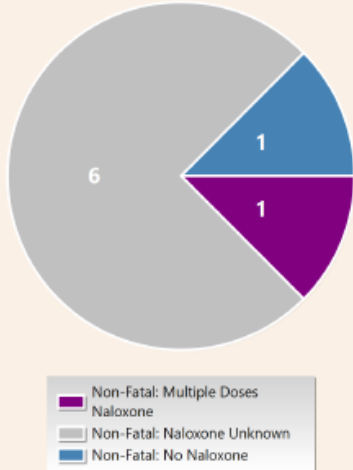
ODMAP Suspected Overdose Submissions - In the Last Month



Last 7 Days (5/26/2025 - 6/1/2025)



In the Last Month (5/2/2025 - 6/1/2025)



7 Day Total	Daily Max (Last 7 Days)	Fatal	Non-Fatal	Naloxone Admins.
3	2	0	3	1

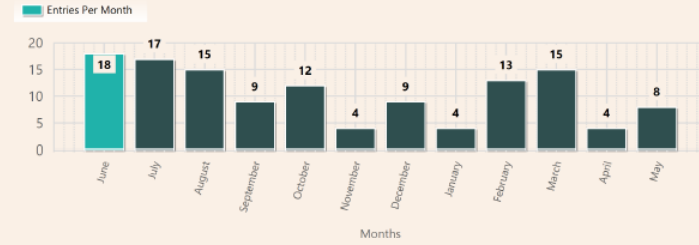
SENSITIVE DATA

Information in ODMAP is sensitive but unclassified raw data that has not been evaluated and may only be viewed by and released to authorized personnel. Information should be verified and/or corroborated through official sources prior to taking further action.

ALL DATES AND TIMES ARE THOSE OF THE ODMAP DATA SUBMISSION AND NOT NECESSARILY THAT OF THE INCIDENT ITSELF



ODMAP Suspected Overdose Submissions - In the Last Year



Total Submissions	Average Daily Count (All Time)	Standard Deviation	Max Count (Single Day)	Calculated Spike Value
128	0.35	0.653	4	2

7 Days:

Fatal No Naloxone	Fatal Single Dose	Fatal Multi Dose	Fatal Unknown	Non-Fatal No Naloxon	Non-Fatal Single Dose	Non-Fatal Multiple	Non-Fatal Unknown
0	0	0	0	0	0	1	2

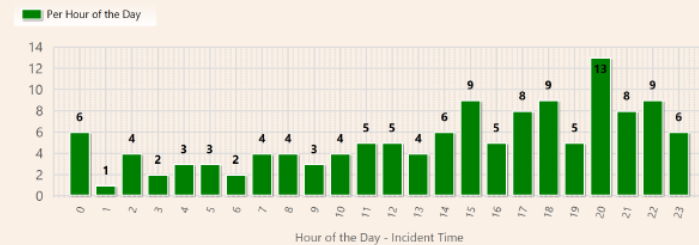
In the Last Month:

Fatal No Naloxone	Fatal Single Dose	Fatal Multi Dose	Fatal Unknown	Non-Fatal No Naloxon	Non-Fatal Single Dose	Non-Fatal Multiple	Non-Fatal Unknown
0	0	0	0	1	0	1	6

ALL SUBMISSIONS:

Fatal No Naloxone	Fatal Single Dose	Fatal Multi Dose	Fatal Unknown	Non-Fatal No Naloxone	Non-Fatal Single Dose	Non-Fatal Multiple	Non-Fatal Unknown
4	3	1	1	29	20	33	37

ODMAP Suspected Overdose Submissions - All Data Submitted



Hour of the Day - Incident Time

SENSITIVE DATA

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ODMAP.org



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[SPIKE ALERTS](#)

[TRAINING](#)

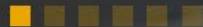
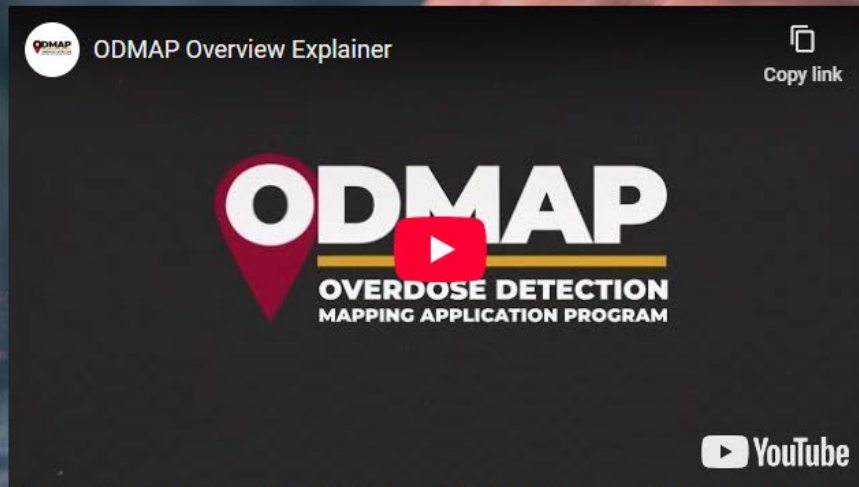
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ODMAP

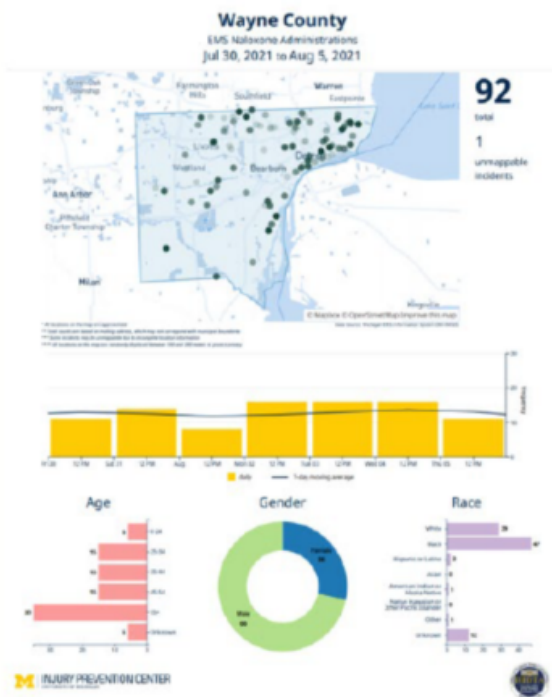
Real-Time Data Producing Long- Term Solutions



The System For Opioid Overdose Surveillance (SOS)

[VIEW THE DASHBOARD](#)

[REQUEST ACCESS HERE](#)



Overview

Opioid overdose represents an urgent public health problem in the United States, with Michigan ranking among the states hardest hit by the dramatic escalation over the past 15 years. A key component of addressing this crisis is timely surveillance—and accompanying data analytics—that can be used to guide resource allocation used for rapid response and prevention.

SOS is a web-based tool that offers two level of access. The first level is public, and displays county-level summaries. The second level of access—which is available to authorized public health and public safety users across the state of Michigan —maps non-fatal and fatal opioid overdose incidents in near real-time, and provides demographic briefs. This interactive dashboard includes features that allow users to tailor visualizations to meet their specific needs. Users can select a data source, a zoom window, and a time frame to display points and descriptive summaries of suspected overdoses. Users can also toggle buttons to restrict the visualizations and summaries to only specific subsets (e.g., age groups and/or genders). This previously unavailable tool is designed to inform data-driven opioid overdose prevention and response efforts with the goal of reducing overdose injuries and fatalities.



NarcNumbers



- NarcNumbers uses phone analysis to build out and identify large and complex criminal organizations.
- NarcNumbers analysts receive legally obtained phone extractions from investigators and our team analyzes the phone and provide the information back to the detectives to further their investigations.



NarcNumbers



- Case matching
- Query suspect(s) numbers
- Query suspect(s) contacts
- Identify owner of phones
- Identify possible criminal activity and criminal organizations through cell phone analysis

Types of Files

- Cellebrite files (Report.xml)
- Cell phone company toll records
- Cell phone number manual entry

NarcNumbers



- Identified key contacts
- Full report of matches found in our database
- Full report of calls and texts

Contact ID	Contact Name	Case	Target	Target Name	Data Range	Frequency	POC	Drug/Offense
555-555-5555	Robert Smith	Case 1	555-555-5555	John Doe	07/23/2024 to 07/23/2024	2	Det Smith	Meth
555-555-5555		Case 2	555-555-5555	Jane Doe	04/02/2025 to 04/02/2025	1	Det John	Drug Trafficking
555-555-5555		Case 3	555-555-5555	John Smith	05/13/2024 to 02/26/2025	206	Det Jane	Meth
555-555-5555	Joe Smith	Case 1	555-555-5555	John Doe	02/20/2024 to 03/18/2024	69	Det Smith	Meth
555-555-5555		Case 4	555-555-5555	Jane Smith	03/07/2024 to 03/07/2024	8	Det John	Fentanyl
555-555-5555		Case 1	555-555-5555	John Doe	08/23/2024 to 11/30/2024	12	Det Smith	Meth
555-555-5555		Case 2	555-555-5555	Jane Smith	03/03/2024 to 03/10/2024	5	Det John	Meth
555-555-5555		Case 3	555-555-5555	John Smith	05/15/2025 to 05/15/2025	1	Det Jane	Meth

Case Name	Target	Target Name	Text Message	Contact Name	Contact ID	Call Type	Date	Time	Duration	Direction
Case 1	555-555-5555	John Doe	Hey		555-555-5555	Text	1/1/2025	5:59:12 PM	00:00:00	Outgoing
Case 1	555-555-5555	John Doe			555-555-5555	Text	1/1/2025	5:59:12 PM	00:00:00	Outgoing
Case 1	555-555-5555	John Doe			555-555-5555	Text	1/1/2025	6:36:15 PM	00:00:00	Incoming
Case 1	555-555-5555	John Doe			555-555-5555	Text	1/2/2025	11:40:03 AM	00:00:00	Incoming
Case 1	555-555-5555	John Doe			555-555-5555	Text	1/2/2025	11:40:03 AM	00:00:00	Incoming
Case 1	555-555-5555	John Doe	call me		555-555-5555	Voice	1/2/2025	2:28:05 PM	00:01:46	Outgoing
Case 1	555-555-5555	John Doe			555-555-5555	Voice	1/2/2025	2:30:30 PM	05:39:21	Outgoing
Case 1	555-555-5555	John Doe			555-555-5555	Voice	1/2/2025	3:11:05 PM	00:01:59	Incoming
Case 1	555-555-5555	John Doe			555-555-5555	Voice	1/2/2025	5:21:23 PM	00:00:15	Incoming
Case 1	555-555-5555	John Doe			555-555-5555	Voice	1/2/2025	6:37:20 PM	00:05:39	Incoming
Case 1	555-555-5555	John Doe			555-555-5555	Voice	1/2/2025	9:54:15 PM	00:02:35	Outgoing
Case 1	555-555-5555	John Doe			555-555-5555	Voice	1/2/2025	10:01:16 PM	00:02:32	Outgoing
Case 1	555-555-5555	John Doe			555-555-5555	Text	1/3/2025	1:01:05 PM	00:00:00	Incoming
Case 1	555-555-5555	John Doe			555-555-5555	Text	1/3/2025	1:01:05 PM	00:00:00	Incoming
Case 1	555-555-5555	John Doe			555-555-5555	Voice	1/3/2025	1:09:29 PM	00:01:12	Outgoing
Case 1	555-555-5555	John Doe			555-555-5555	Text	1/3/2025	1:12:23 PM	00:00:00	Outgoing
Case 1	555-555-5555	John Doe			555-555-5555	Text	1/3/2025	1:12:23 PM	00:00:00	Outgoing
Case 1	555-555-5555	John Doe			555-555-5555	Text	1/3/2025	1:12:49 PM	00:00:00	Incoming

UNCLASSIFIED//LAW ENFORCEMENT SENSITIVE

CASE MATCHING WORK SHEET

The information contained herein has not been vetted or verified and is intended for investigative use only. This document and/or the content is an investigative lead only and should not be placed in any law enforcement report or other report that may become public. This document in whole or part should not be the sole basis of a court document (i.e., search warrant, affidavit, etc.) and information should be verified prior to further action. Information provided to you by the MIOC/DSEMIC is for official use only, may contain law enforcement sensitive information and may not be shared with non-criminal justice agencies. Please contact the MIOC/DSEMIC for further clarification regarding proper use and dissemination.

This document provides a summary of Calls identified through analysis conducted on extracted or CDR data provided by the below named agency. This report does not verify the ownership nor the person in possession of the phone at the time the calls were placed:

Submitted By: Det Smith
Date Submitted: 8/7/2024
Agency/Drug Team: Drug Team
Case #: Inv-25-25
Contact E-Mail: detsmith@misp.gov

Case Synopsis: Drug Investigation
MIMS #: #####
Date Completed: 8/10/2024
Completed By: A555

Summary of Results

Target Phone Number: 555-555-5555
Target's Name: John Doe
Target's Detail: Suspect
Case Matches Found: Yes
Notes: 15 Matches found

Calls and Text Matches

Target to Target Connections Found:

- 555-555-5555 John Snow

Key Contacts:

- 555-555-5555 "Nickname" is a contact connected to 15 different drug investigations. See Full Report of Matches for more information.
 - The number belongs to John Smith 1/11/1995

Full Report of Matches:

Full Report of Calls and Texts:

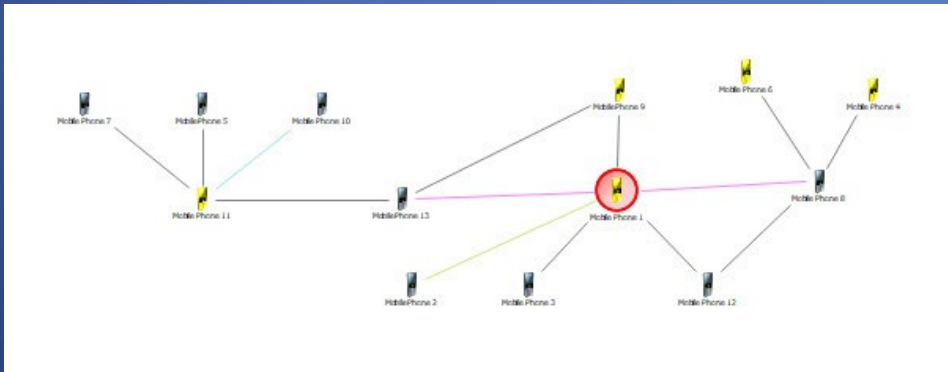
UNCLASSIFIED//LAW ENFORCEMENT SENSITIVE

Information may be exempt from public release under the United States Freedom of Information Act (5 U.S.C. 551 et seq.) and the Michigan Freedom of Information Act (15.231 et seq.). This project is supported by Byrne JAG State FY 2024 #2022-15PBJA-22-GG-00642-MUMU & 2023-15PBJA-23-GG-02988-MUMU, awarded by the Bureau of Justice Assistance, Office of Justice Programs, U.S. Department of Justice (DOJ), and administered by the Michigan State Police (MSP). Points of view or opinions contained within this document do not necessarily represent the official position or policies of the DOJ or the MSP.

NarcNumbers



- List of top callers
- Link chart of top 20 callers.
- Link chart of matches
- Intel report
- DEA database search results



UNCLASSIFIED//LAW ENFORCEMENT SENSITIVE
CASE MATCHING WORK SHEET

Top Callers

Top 10 Callers:

1. 555-555-5555	5. 555-555-5555	8. 555-555-5555
2. 555-555-5555	6. 555-555-5555	9. 555-555-5555
3. 555-555-5555	7. 555-555-5555	10. 555-555-5555
4. 555-555-5555		

Full Report of Top Callers:

I2 Chart of Top 20 Callers:

I2 Charts

I2 Chart of Matches:

I2 Chart Image:

Intel Report

Intel Summary: The target of Case1 case has text message communication with one common contact in relation to drug activity. Target appears to be trading weapons and drugs.

Full Intel Report:

DICE/DARTS Results

Target Phone Number: 555-555-5555
Target Name: John Doe
Case: Case 10
Case Contact: Det Know
Case Contact Email: know@msp.gov

UNCLASSIFIED//LAW ENFORCEMENT SENSITIVE
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NarcNumbers



For more information and a more in-depth presentation for
Law Enforcement, please contact
Melissa Starr.

E-Mail will be provided to LE after training.

LE Participants with MCOLES # will be sent:

- HIDTA Forms, Instructions and Contact Information
- HIDTA OD Re-Cap e-mail
- ODMAP Access information
- University of Michigan System for Opioid Overdose Surveillance (SOS)
- MSP NarcNumbers e-mail



Drug Seizure and Identification Trends

Xylazine





JULY 11, 2023

In Continued Fight Against Overdose Epidemic, the White House Releases National Response Plan to Address the Emerging Threat of Fentanyl Combined with Xylazine

 > [ONDCP](#) > [BRIEFING ROOM](#) > [PRESS RELEASES](#)



September 22, 2023

DEA and DHS Issue Joint Update on Sources of Illicit Xylazine

DEA Headquarters Division - Public Information Office

DEA and DHS have identified xylazine intended for illicit human use entering the U.S. in several ways—in solid form from China and other countries, in liquid form either **diverted from veterinary supply chains** or **packaged to resemble a veterinary drug**, and, to a lesser degree **mixed with fentanyl seized at the southwest border**.



Xylazine

Also known as “tranq” or “tranq dope”



Source: DEA

Non-opioid animal sedative and analgesic created in 1962 for potential human use, but was too strong; approved by FDA for **veterinary use only** in 1972

Epicenter - **Philadelphia** - 2018

Emerging threat - 2023 - Office of NDCP

+ - One Day

+ - Five Days



Courtesy of PAARI
Xylazine wounds

A progression of xylazine wounds over five days.

9 / 11

- 2025 - pending Schedule III Federal (2/12/2025)
2024 - pending Schedule II - Michigan
- Reversal drug exists for animals only - none for humans. **Does not respond to Naloxone**
- **Heavy sedation / unconsciousness - several hours - does not stop breathing - not causally linked to death (does it reduce mortality?)**
- **Normally found with fentanyl**



Xylazine: An Emerging Threat

By Isha Joshi, MBA, Catherine A. Marco, MD, FACEP, and Jeffrey Lubin, MD, MPH, FACEP | on July 7, 2023 | 0 Comment

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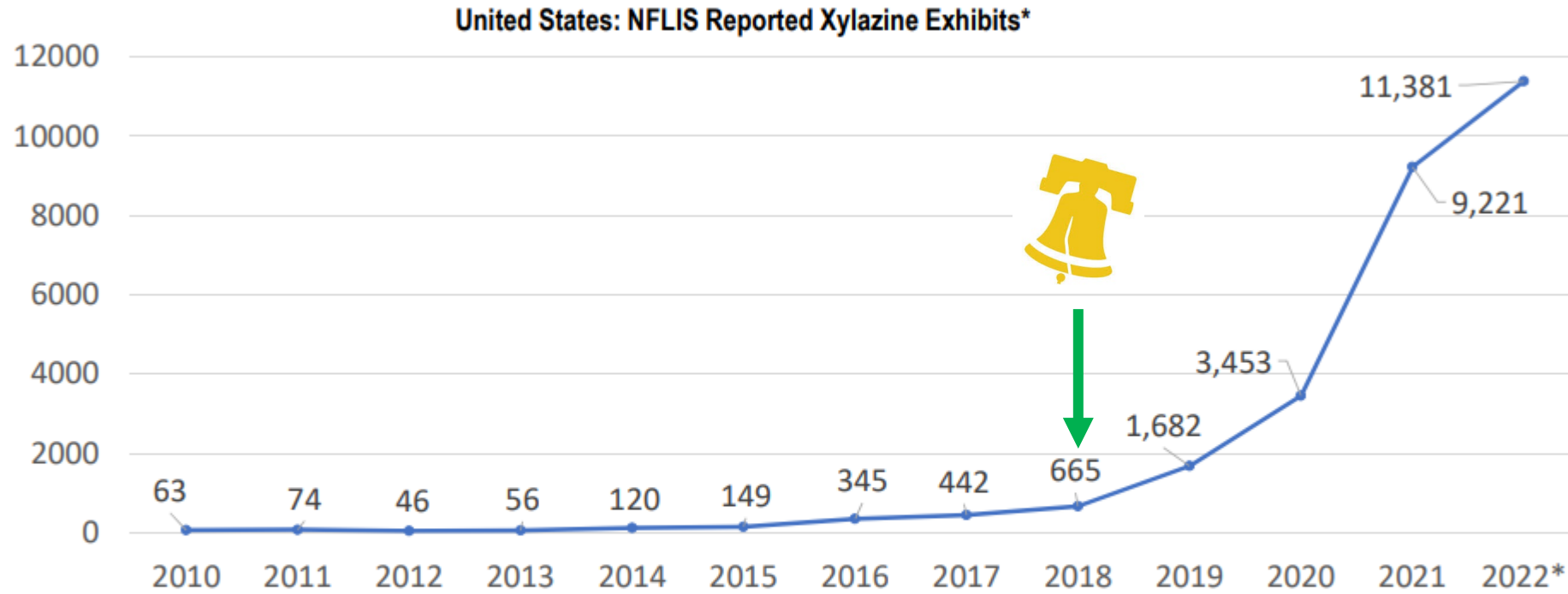
Print-Friendly Version



CASE

A 30-year-old woman presents to the emergency department with left arm pain from a chronic wound. She notes that the wound has been present for greater than a year and it becomes malodorous and painful and oozes intermittently. She reports fevers up to 103 degrees Fahrenheit. She endorses a one-year history of near-syncopal episodes associated with shortness of breath, headache, and neck pain. She reports polysubstance use including fentanyl, xylazine, and cocaine, and has a history of injection drug use and Hepatitis C. Her last hospitalization was one month ago for a similar wound, at which time she received intravenous antibiotics and was subsequently discharged. Two years prior, she reports having a similar wound on her right arm, which required debridement and skin grafting. Due to her drug use, she states that she has visited several medical centers who have denied her surgical intervention for her wounds.

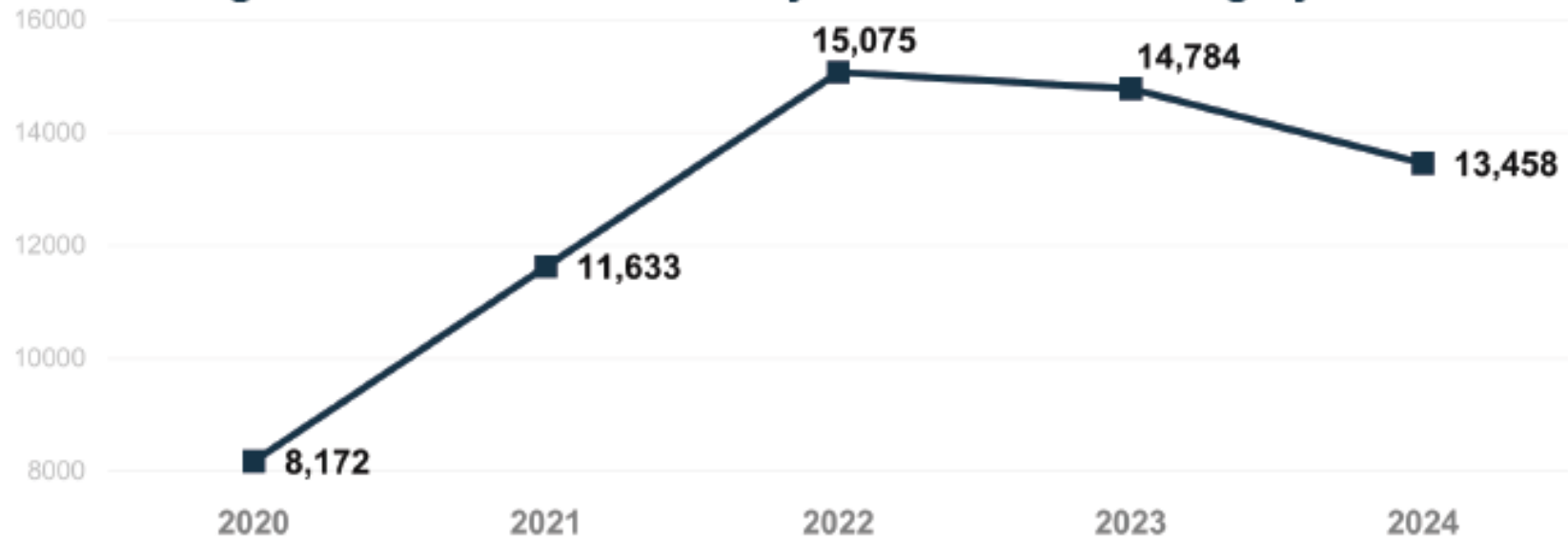
NFLIS Data: Reported Xylazine Exhibits 2010-2022



Source: National Forensic Laboratory Information System (NFLIS)
* 2022 contains interim reporting



Figure 20. Number of Fentanyl Exhibits Containing Xylazine



Source: DEA

UNCLASSIFIED



Figure 13. Top 10 Fentanyl Adulterants

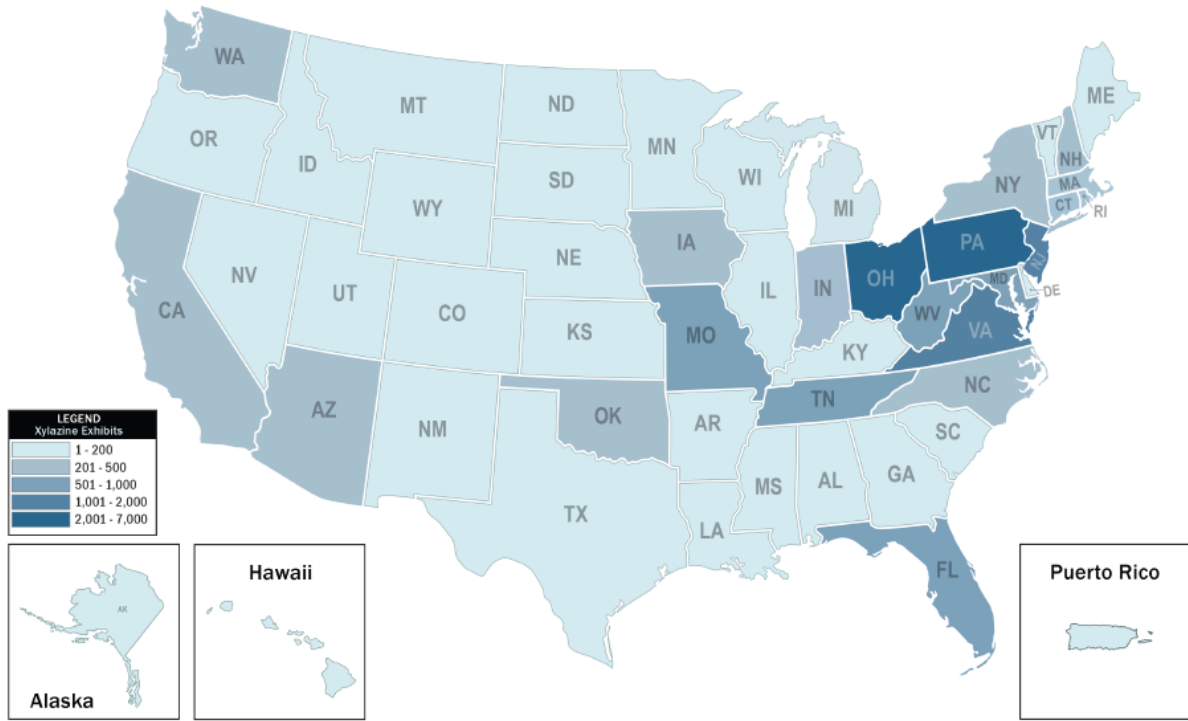
United States: NFLIS Reported Top Ten Drugs Mixed with Fentanyl		
Rank	2019	2024*
1	Heroin	Xylazine
2	Acetyl fentanyl	Heroin
3	4-ANPP	Acetaminophen
4	Cocaine	para-Fluorofentanyl
5	Tramadol	4-ANPP
6	Methamphetamine	Fluorofentanyl
7	Caffeine	Cocaine
8	Acetaminophen	Methamphetamine
9	Xylazine	Caffeine
10	Valeryl fentanyl	Medetomidine
Total	172	239

**2024 data is preliminary and subject to change*

Source: National Forensic Laboratory Information System, data retrieved April 10, 2025

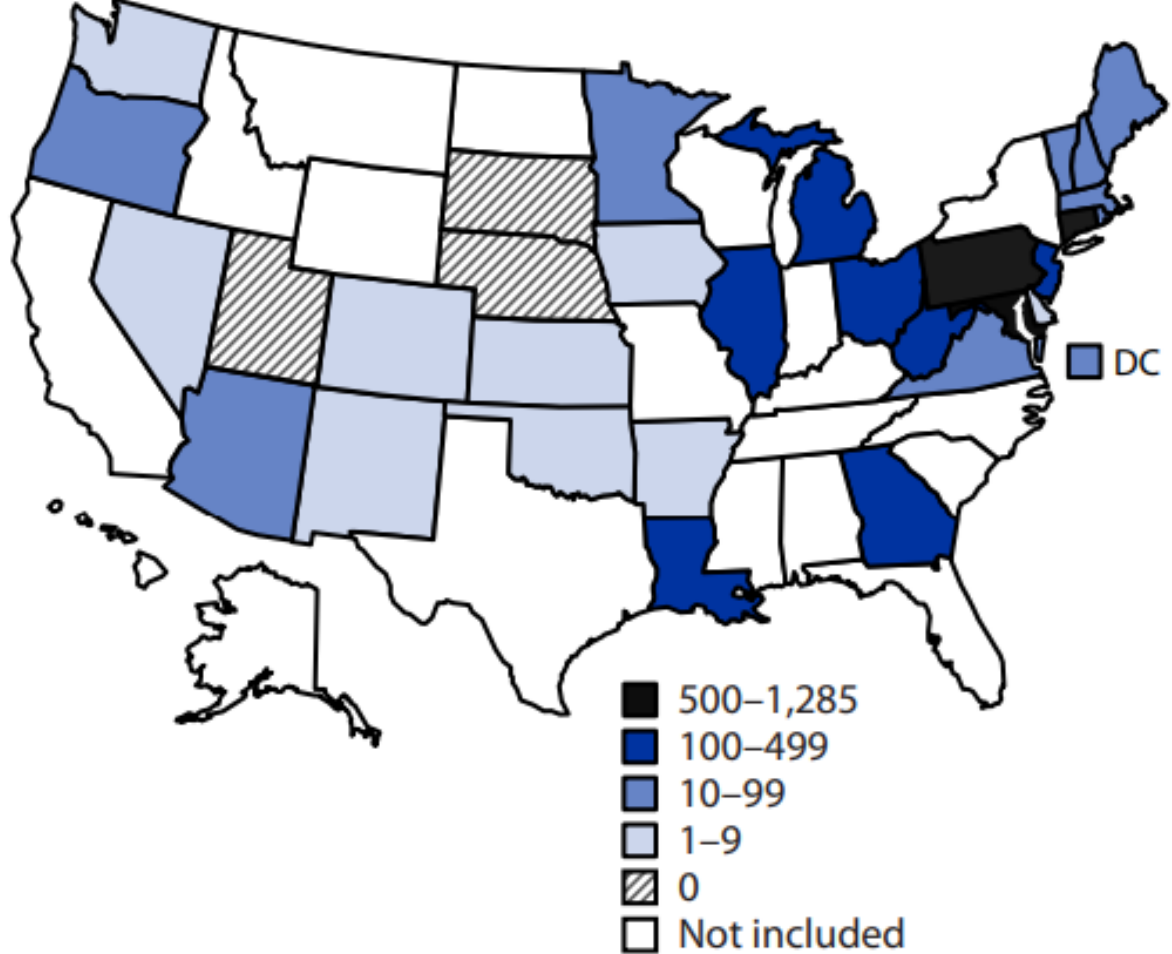


Figure 21. States with Reported Seizures of Xylazine, 2024



Source: National Forensic Laboratory Information System, data retrieved April 16, 2025

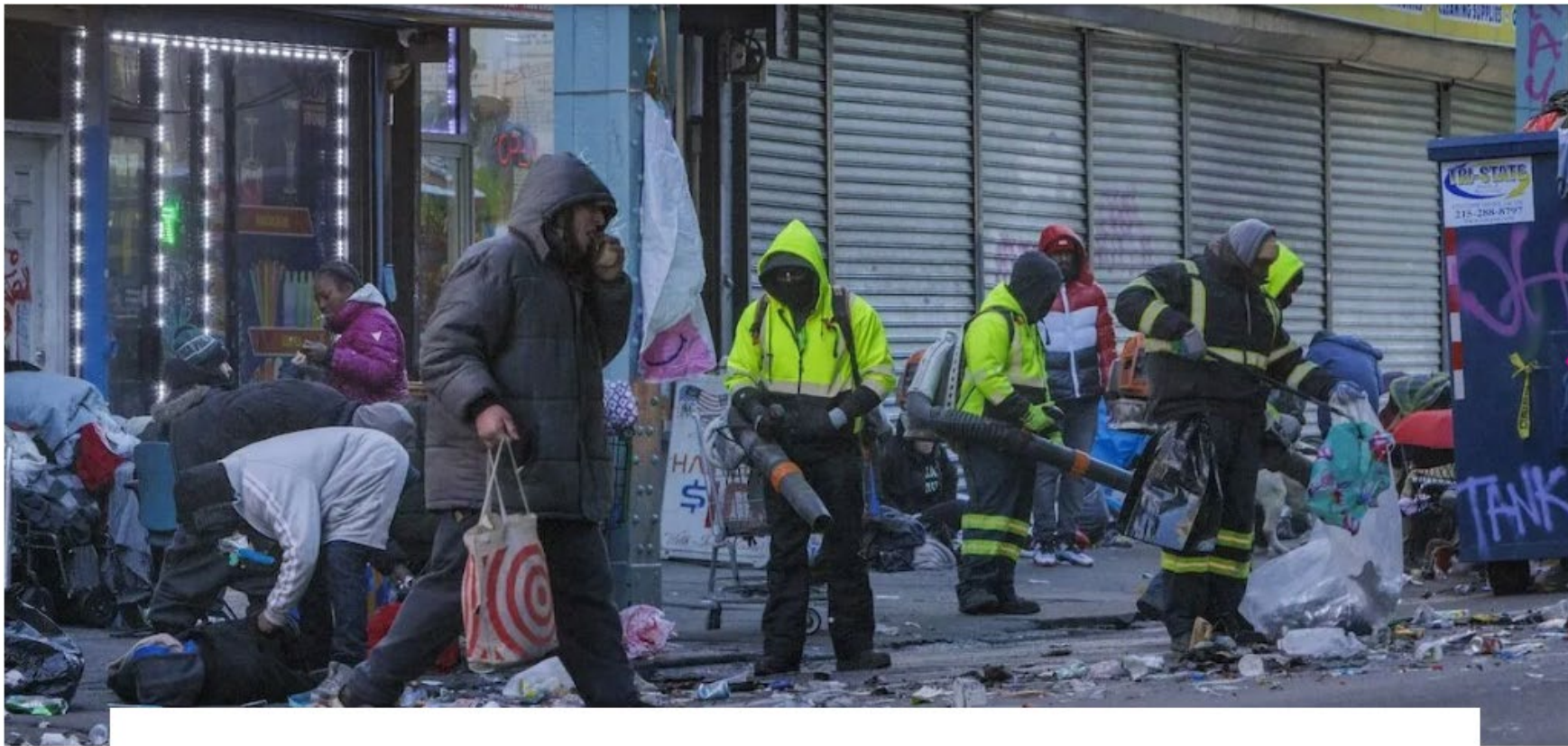
A. No. of IMF-involved overdose deaths with xylazine detected



2021 - June 2022







HOW DO YOU SOLVE A PROBLEM LIKE KENSINGTON?

Enough already with being host to the East Coast's largest open-air drug market.
A Manhattan Institute Fellow lays out ideas for reclaiming the neighborhood

BY CHARLES FAIN LEHMAN FEB. 20, 2025

FOR CITY JOURNAL



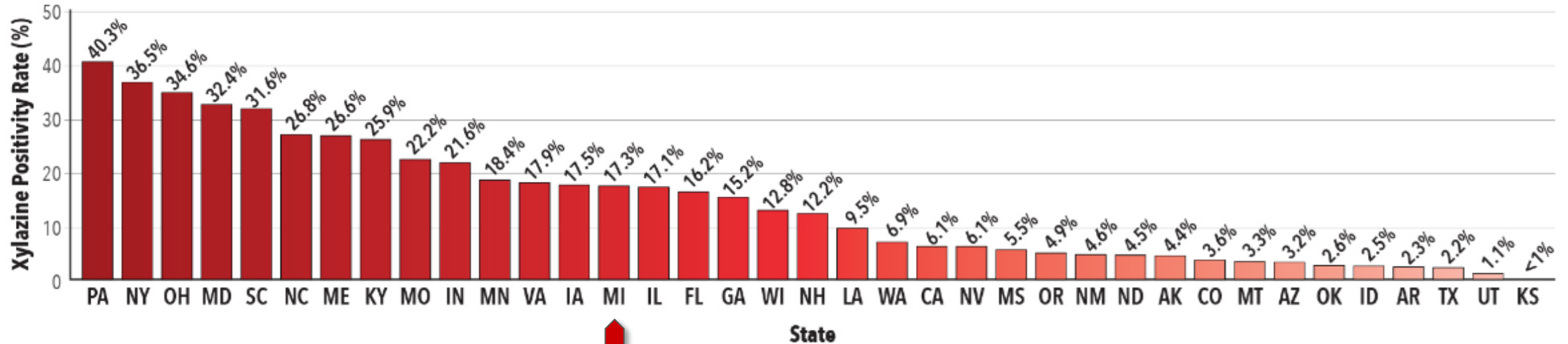
X Post

Share



Xylazine Positivity Rate in Fentanyl UDT April 2023 - April 2024

Ranked State-Level Positivity Rates for Xylazine in Fentanyl-Positive UDT Specimens





CTRL+Click to select multiple drugs, years, and/or counties

Select Drug(s)

Xylazine

Select Year(s)

All

Select Counties

All



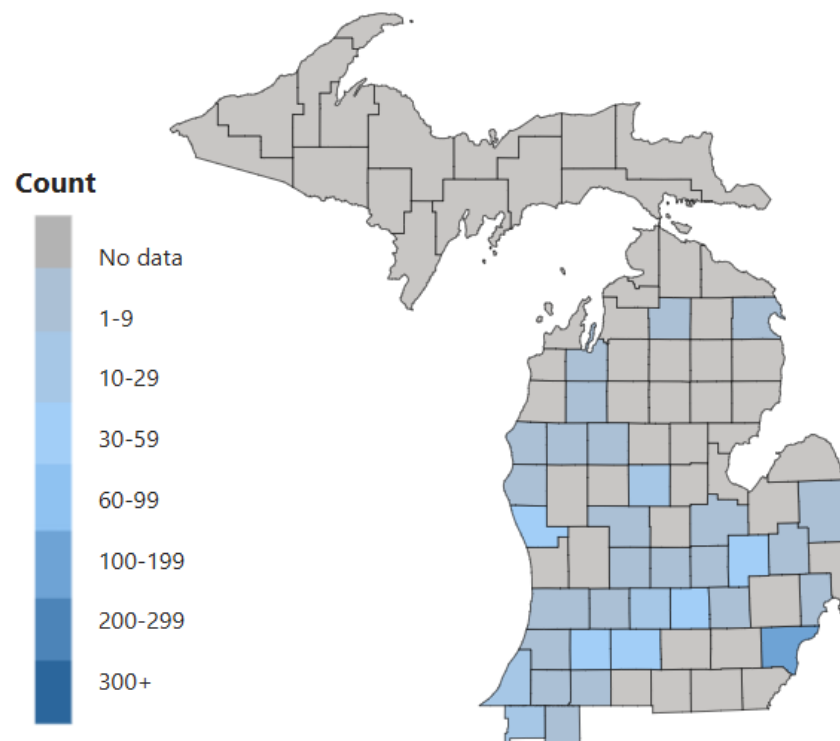
Count of Decedents Testing Positive

for at Least One of the Selected Drugs in Selected Years by County of Death

Substance	2019	2020	2021	2022	2023	2024	2025	Total
Xylazine	18	70	60	92	84	142	46	512

Map Showing Count of Decedents Testing Positive

for at Least One the Selected Drugs in Selected Years by County of Death

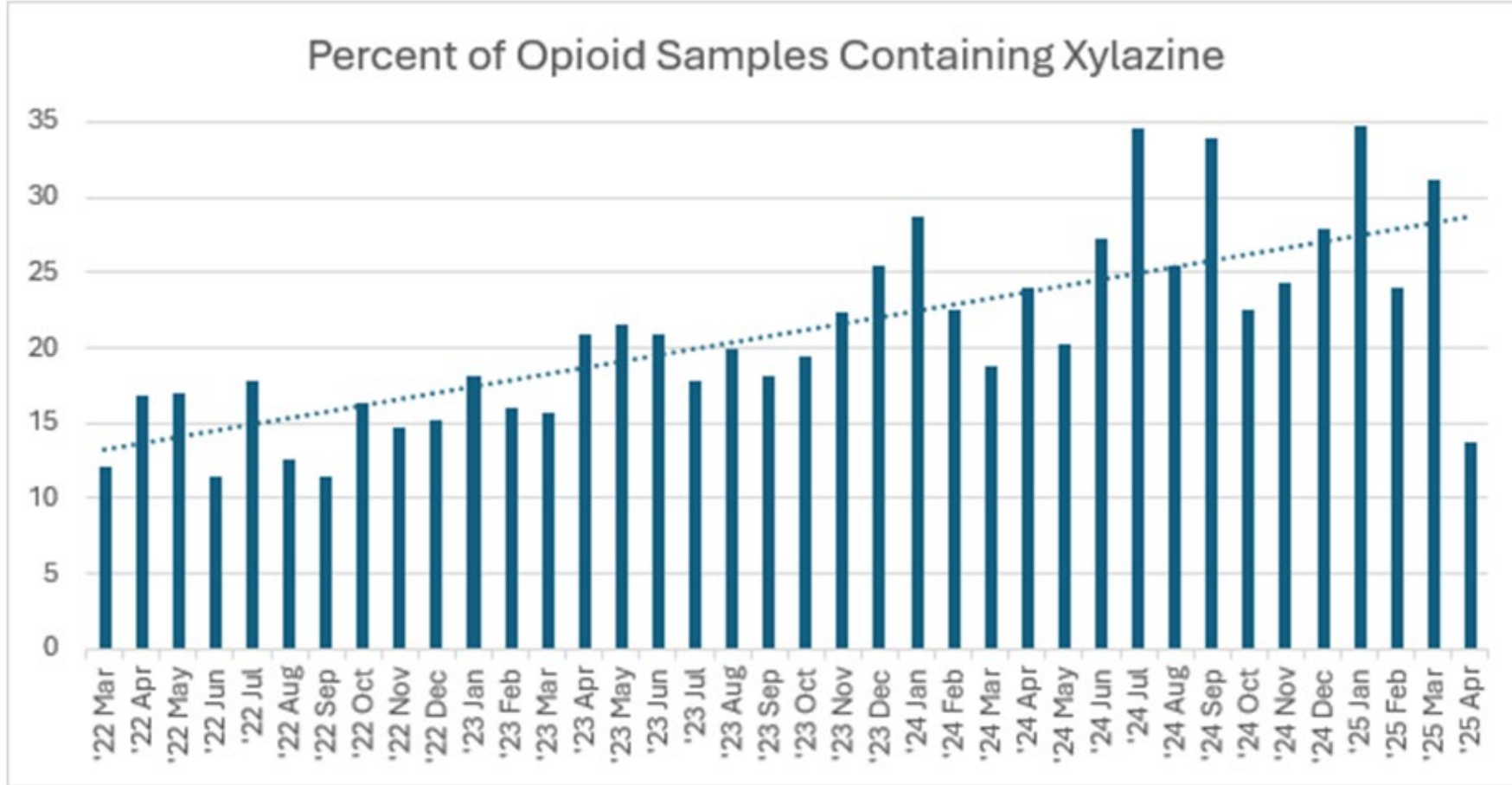


Data current as of June 2, 2025

Note: STORM is considered **sentinel surveillance**, describing drug presence at time of death, not cause of death; counties participate voluntarily. Decedents can test positive for **multiple drugs**, and decedents not testing positive for any drugs do not appear on table or graph. For example, if fentanyl and xylazine were selected, and one decedent tested



Xylazine



Drug Seizure and Identification Trends

Medetomidine



D STREET A

STATE AND TERRITORY REPORT ON ENDURING AND EMERGING THREATS



October 2024
NIIP-001-25

Medetomidine and Dexmedetomidine Submissions Increase Significantly

MEDETOMIDINE AND XYLAZINE

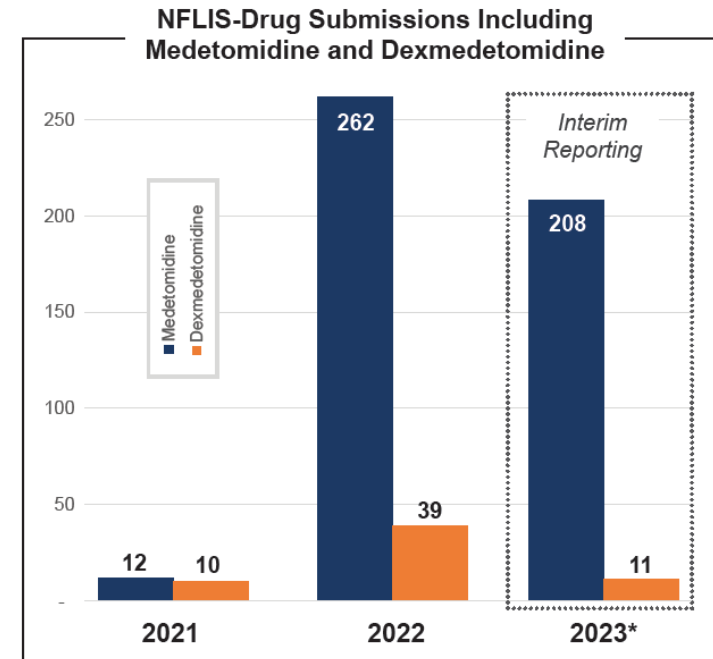
MEDETOMIDINE AND XYLAZINE POWDERS
HAVE A SIMILAR PRICE RANGE OF

\$10-\$300
PER KILOGRAM.

WHAT ARE THEY?

- Medetomidine is an analgesic used in veterinary medicine.
- Dexmedetomidine is an analgesic used in human and veterinary medicine.
- Both drugs have been diverted from their intended use.

- Medetomidine – veterinary use – detected in illicit drug supply in 2021-2022



*2023 data is interim reporting with final numbers likely to rise.
Source: DEA NFLIS-Drug, June 7, 2024.



D STREET A

STATE AND TERRITORY REPORT ON
ENDURING AND EMERGING THREATS



October 2024
NIIP-001-25

Medetomidine and Dexmedetomidine Submissions Increase Significantly

MEDETOMIDINE AND XYLAZINE

MEDETOMIDINE AND XYLAZINE POWDERS
HAVE A SIMILAR PRICE RANGE OF

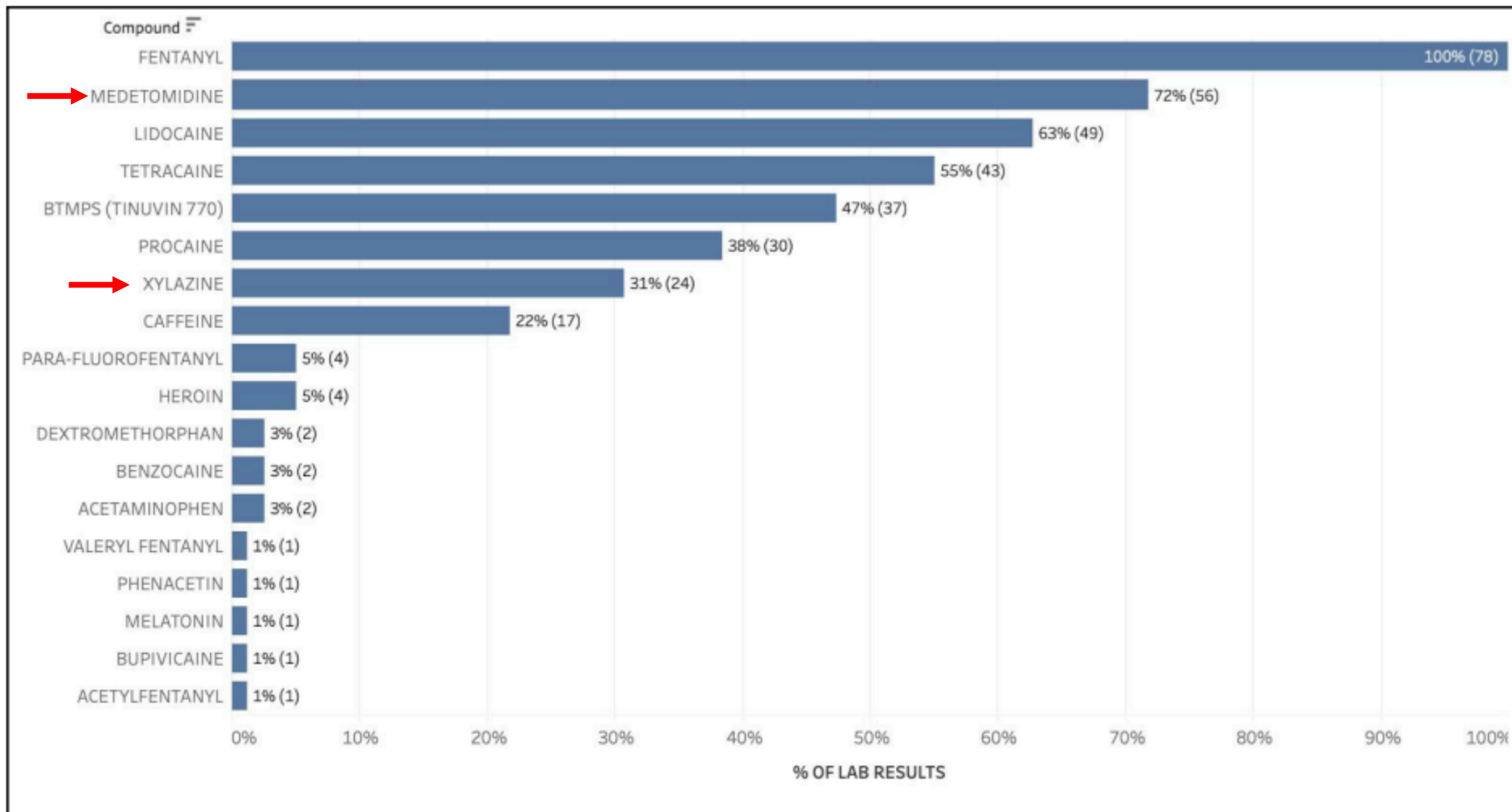
\$10-\$300
PER KILOGRAM.

WHAT ARE THEY?

- Medetomidine is an analgesic used in veterinary medicine.
- Dexmedetomidine is an analgesic used in human and veterinary medicine.
- Both drugs have been diverted from their intended use.

- **Medetomidine – veterinary use** – detected in illicit drug supply in 2021-2022
- **(Dexmedetomidine – human use – intubation)**
- **NOT an opioid - not responsive to naloxone**
- **200-300x more potent than xylazine - severe sedation**
- Increase indicates a trafficker **shift in use of adulterants due to xylazine scheduling in PA in 2023-2024**





Adulterants commonly found alongside fentanyl, Trenton/Phila/Pittsburgh, Q4/2024



Medetomidine - Veterinary Sedative

Legitimate Veterinary Use
(can be diverted)



Illicit Use



[Add Inquiry Basket to Compare](#)

USA European Markets, 99% Purity Medetomidine
Medetomidina Medetomidin Powder CAS: 86347-15-1 Door
to Door

US\$150.00-180.00 / 10g
1 10g (MOQ)

Product Details

Customization: Available
Powder: Yes
Customized: Non-Customized

[Contact Supplier](#)

[Chat](#)

Chemical Co., Ltd. >
Manufacturer/Factory

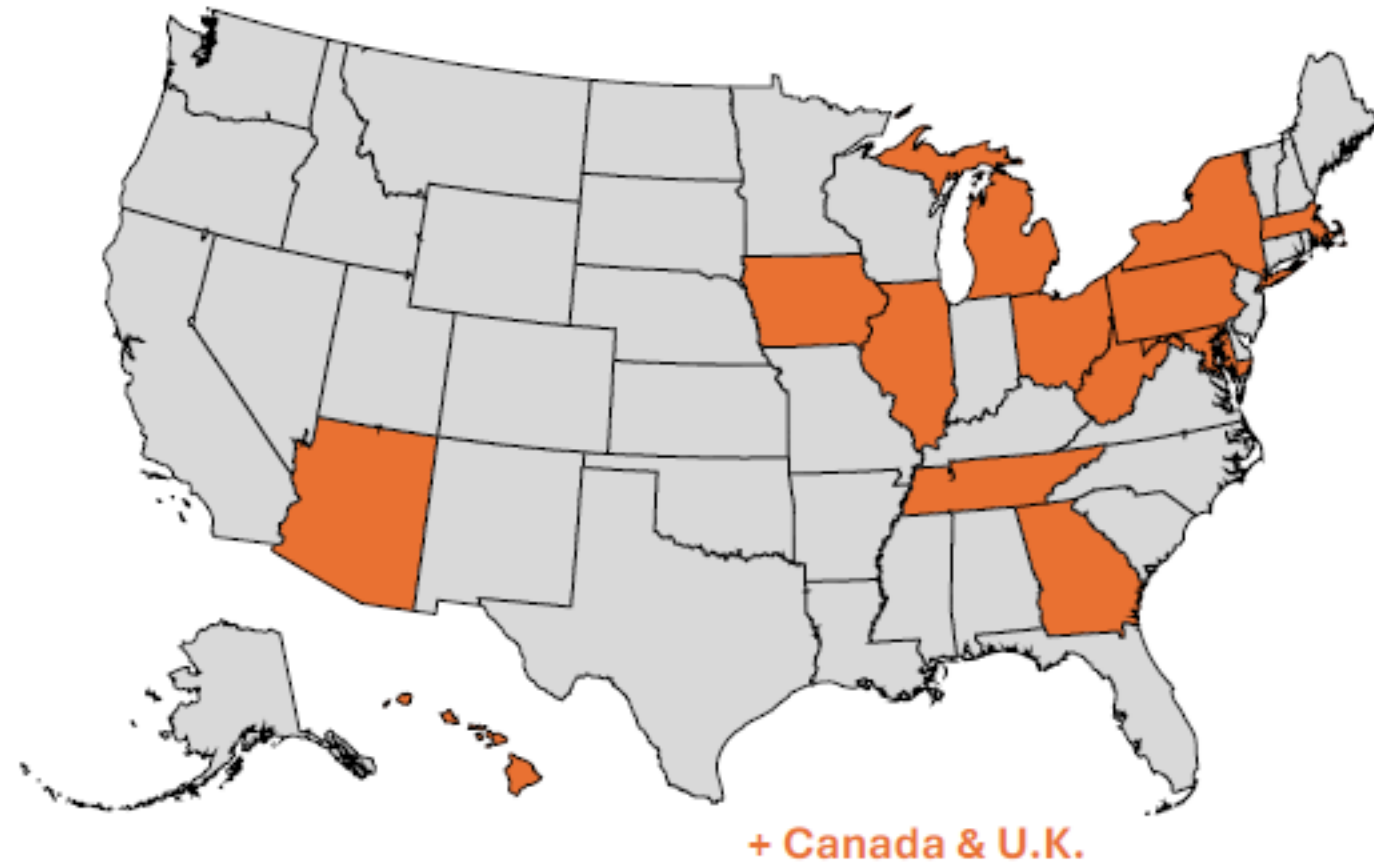
Gold Member Since 2023

Audited Supplier

[Sign In](#) to see all verified strength labels (12)



Figure 1: Distribution of Medetomidine Toxicology Cases





Published February 26, 2025

New Alert: Medetomidine-Related Overdose Case in Wayne County

In January 2025 MDHHS received a toxicology report confirming that an individual who died in Wayne County had medetomidine in their system. Medetomidine is a veterinary tranquilizer in the same drug class as xylazine but more potent.

This is the ninth case of medetomidine detected through the Swift Toxicology of Overdose-Related Mortalities (STORM) program since March 2024. Cases have also been reported in Ingham, Berrien and Muskegon counties.

Key Findings:

- **Location:** Of the nine cases identified between March 2024 and January 2025, this is the first in 2025. Previous cases spanned multiple counties, including Wayne.
- **Substance profile:** All cases involved medetomidine and fentanyl. Four cases also included xylazine.
- **Current case:** The individual passed in early January 2025. This case mirrors previous findings, with medetomidine, fentanyl and xylazine detected in toxicology reports.





CTRL+Click to select multiple drugs, years, and/or counties

Select Drug(s)

Medetomidine

Select Year(s)

All

Select Counties

All



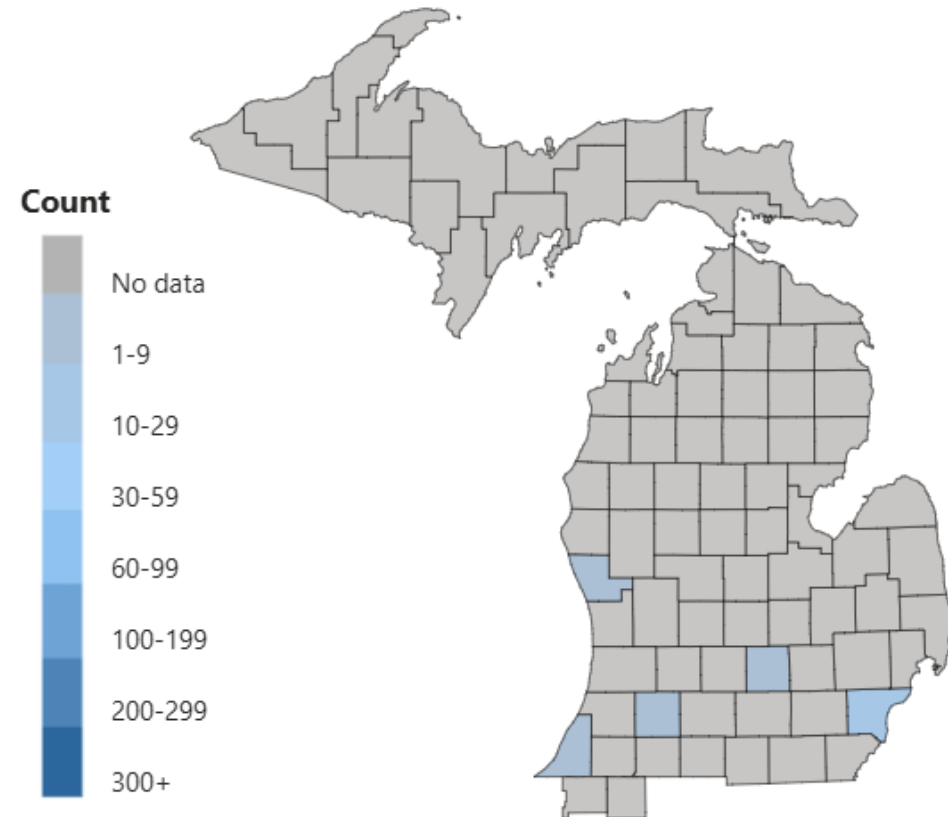
Count of Decedents Testing Positive

for at Least One of the Selected Drugs in Selected Years by County of Death

Substance	2024	2025	Total
Medetomidine	8	7	15

Map Showing Count of Decedents Testing Positive

for at Least One the Selected Drugs in Selected Years by County of Death



Data current as of June 2, 2025

Note: STORM is considered **sentinel surveillance**, describing drug presence at time of death, not cause of death; counties participate voluntarily. Decedents can test positive for **multiple drugs**, and decedents not testing positive for any drugs do not appear on table or graph. For example, if fentanyl and xylazine were selected, and one decedent tested



All Drugs

CTRL+Click to select multiple drugs, years, and/or counties

Select Drug(s)

Medetomidine

Select Year(s)

All

Select Counties

All



Count of Decedents Testing Positive

for at Least One of the Selected Drugs in Selected Years by County of Death

Substance	2024	2025	Total
Medetomidine	8	7	15

MSP Forensic Labs

2024

Q1 – 9

Q2 – 9

Q3 – 10

Q4 – 11

Total - 39

2025

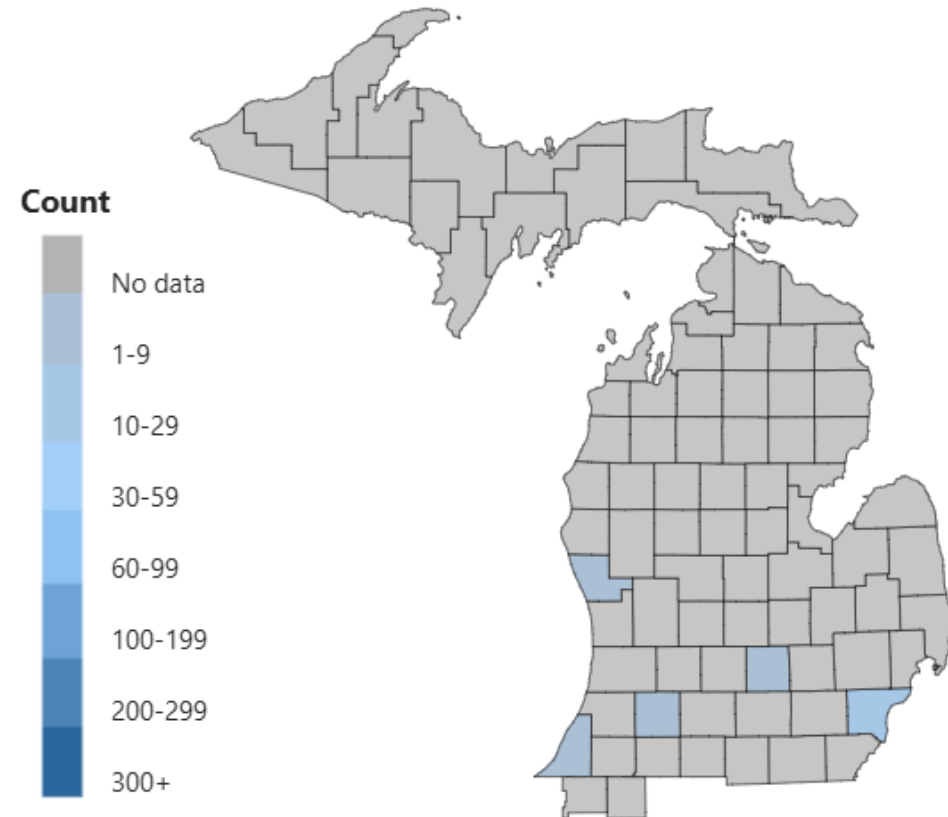
Q1 – 38

April - 20



Map Showing Count of Decedents Testing Positive

for at Least One the Selected Drugs in Selected Years by County of Death



Note: STORM is considered **sentinel surveillance**, describing drug presence at time of death, not cause of death; counties participate voluntarily. Decedents can test positive for **multiple drugs**, and decedents not testing positive for any drugs do not appear on table or graph. For example, if fentanyl and xylazine were selected, and one decedent tested

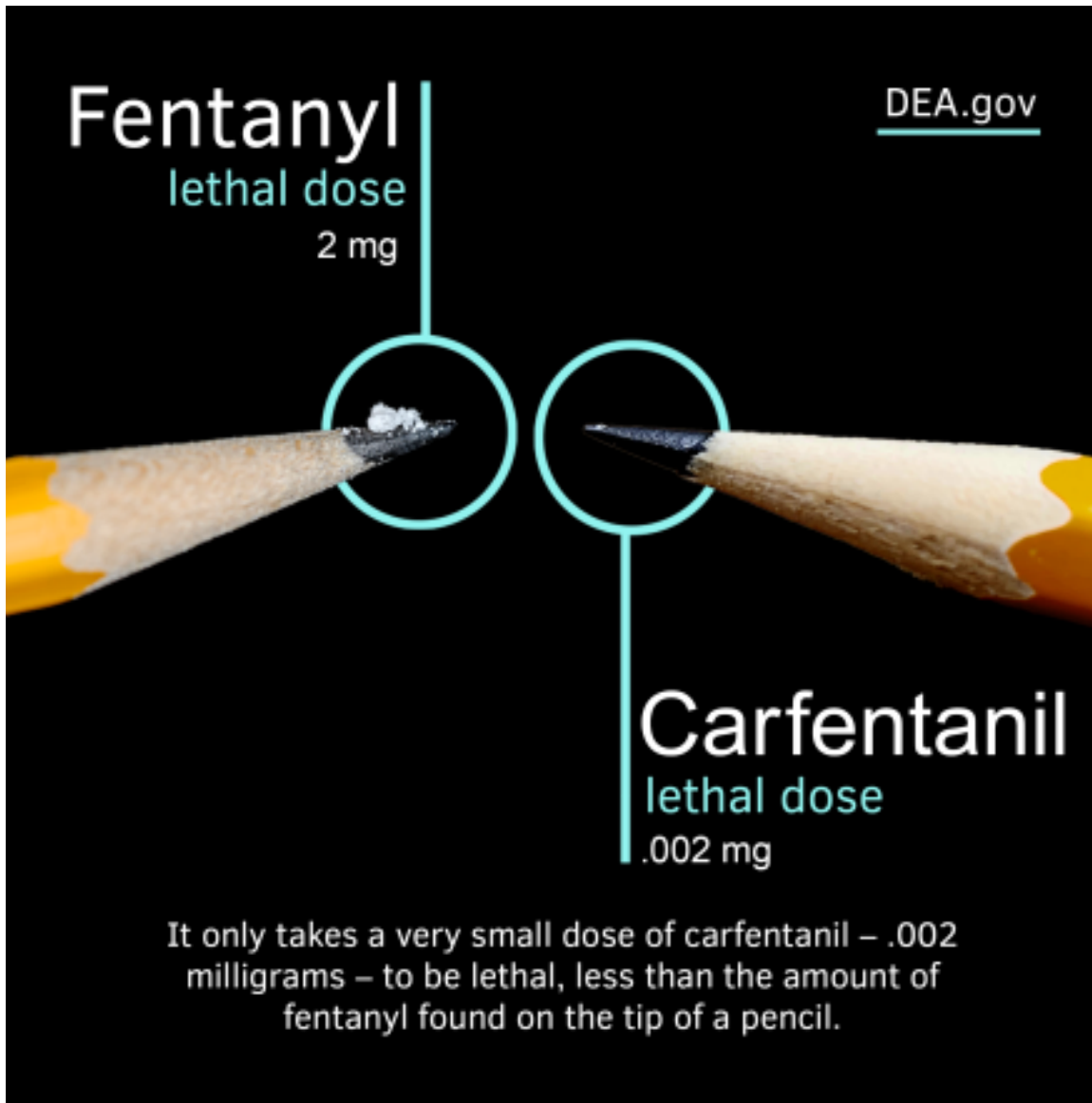
Drug Seizure and Identification Trends

Carfentanil



DEA.gov

Fentanyl
lethal dose
2 mg



Carfentanil
lethal dose
.002 mg

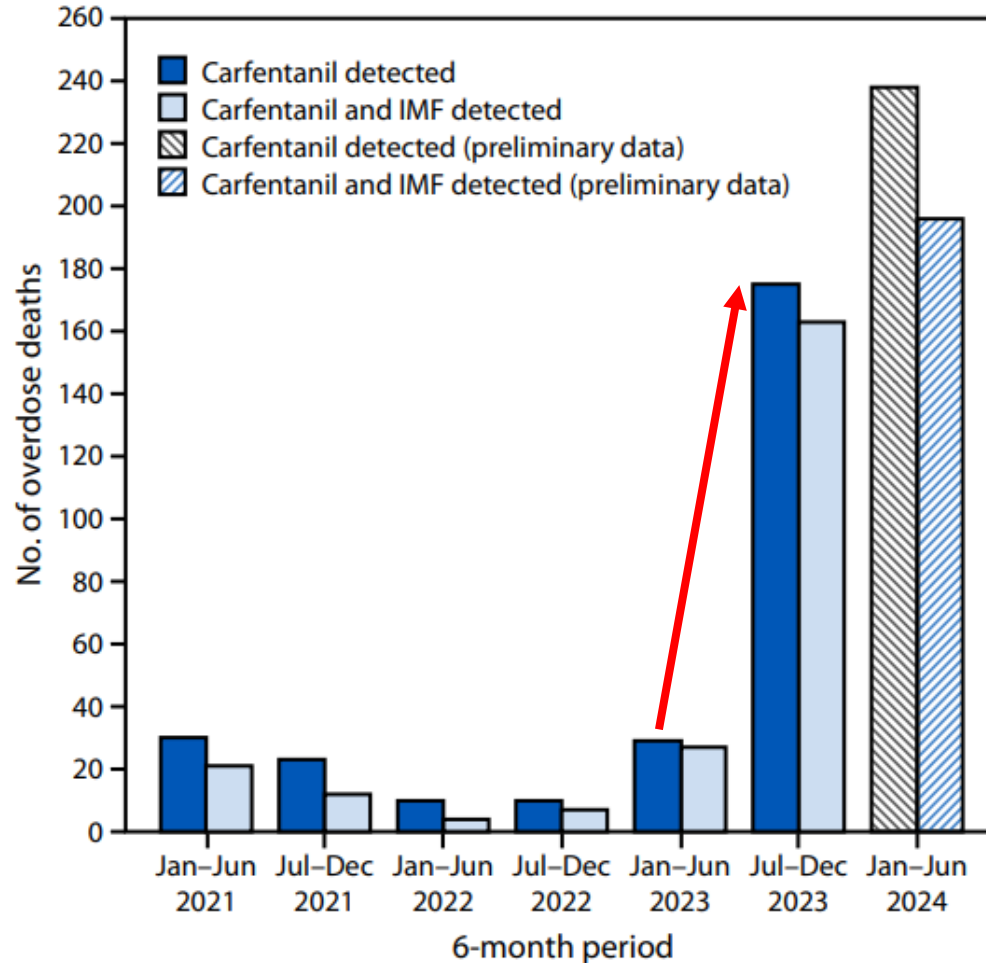
It only takes a very small dose of carfentanil – .002 milligrams – to be lethal, less than the amount of fentanyl found on the tip of a pencil.

- **large animal (think elephant) tranquilizer**
- **100 x more potent than fentanyl, 10,000 x morphine**
- **surfaced around 2016, then disappeared, and is now reappearing again**

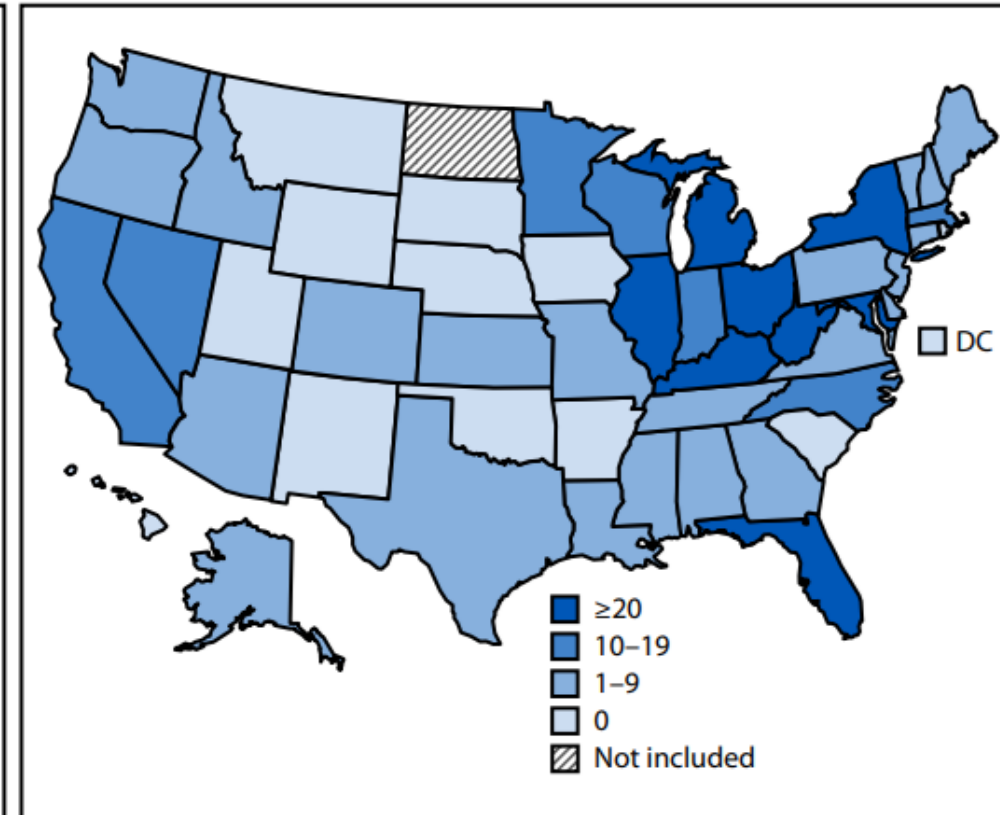


Carfentanil - 100x more potent than fentanyl

A. Number of overdose deaths with carfentanil detected (n = 513), by 6-month period, January 2021–June 2024



B. Number of overdose deaths with carfentanil detected (n = 468), by jurisdiction, January 2023–June 2024





All Drugs

CTRL+Click to select multiple drugs, years, and/or counties

Select Drug(s)

Carfentanil

Select Year(s)

All

Select Counties

All



Count of Decedents Testing Positive

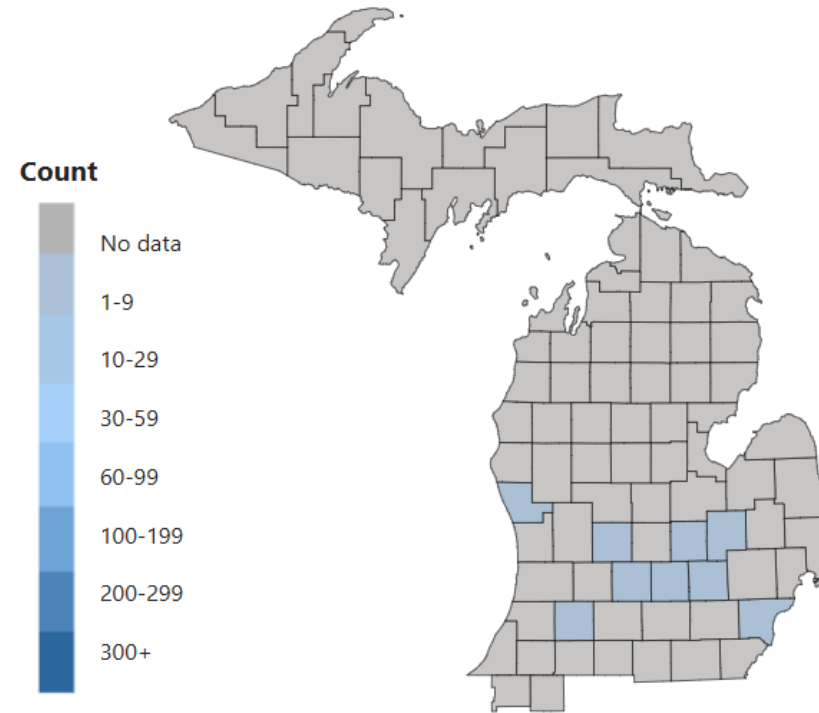
for at Least One of the Selected Drugs in Selected Years by County of Death

Substance	2018	2019	2020	2024	2025	Total
Carfentanil	1	1	3	3	5	13

MDHHS has record of 8 detections in 2025 including 2 in Oakland County which does not participate in STORM.

Map Showing Count of Decedents Testing Positive

for at Least One the Selected Drugs in Selected Years by County of Death



Data current as of June 2, 2025

Note: STORM is considered **sentinel surveillance**, describing drug presence at time of death, not cause of death; counties participate voluntarily. Decedents can test positive for **multiple drugs**, and decedents not testing positive for any drugs do not appear on table or graph. For example, if fentanyl and xylazine were selected, and one decedent tested





All Drugs

CTRL+Click to select multiple drugs, years, and/or counties

Select Drug(s)

Carfentanil

Select Year(s)

All

Select Counties

All



Count of Decedents Testing Positive

for at Least One of the Selected Drugs in Selected Years by County of Death

Substance	2018	2019	2020	2024	2025	Total
Carfentanil	1	1	3	3	5	13

MDHHS has record of 8 detections in 2025 including 2 in Oakland County which does not participate in STORM.

MSP Forensic Labs

2024

Q1 – 4

Q2 – 1

Q3 – 0

Q4 – 4

Total - 9

2025

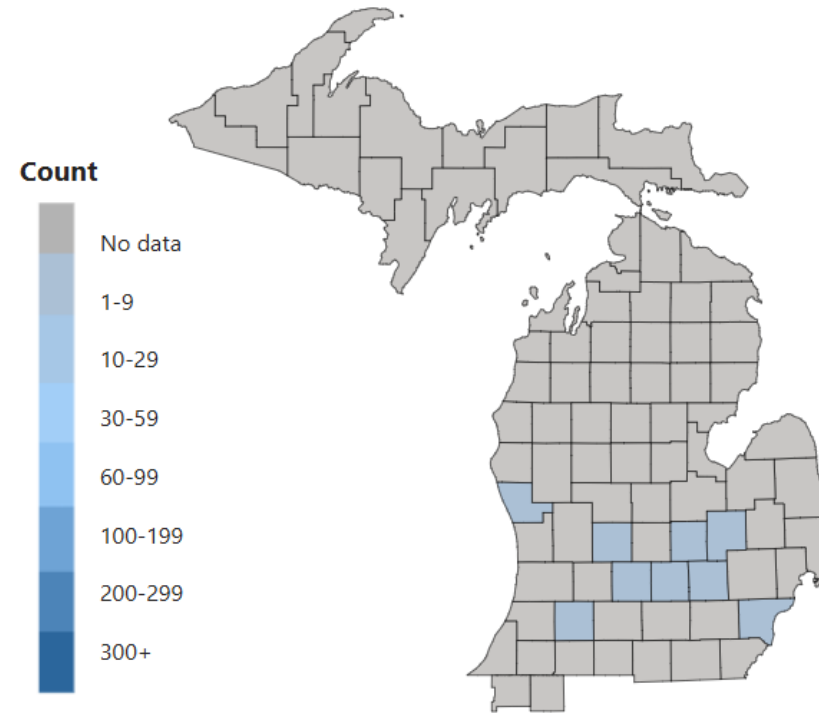
Q1 – 6



Data current as of June 2, 2025

Map Showing Count of Decedents Testing Positive

for at Least One the Selected Drugs in Selected Years by County of Death



Note: STORM is considered **sentinel surveillance**, describing drug presence at time of death, not cause of death; counties participate voluntarily. Decedents can test positive for **multiple drugs**, and decedents not testing positive for any drugs do not appear on table or graph. For example, if fentanyl and xylazine were selected, and one decedent tested



Drug Seizure and Identification Trends

Ketamine



Ketamine



- **Schedule III non-narcotic** developed in Michigan in the early 1960's, approved medically for anaesthetic use in humans and **animals** and for treatment resistant depression in the form of esketamine (nasal spray - Spravato® FDA-2019)
- Dissociative anesthetic with hallucinogenic effects - “out of body” experience - may increase heart rate and BP
- Has also been used to **incapacitate** victims of sexual assault
- “Special K” - night clubs, **parties**, mixed with various other drugs - MDMA, meth, cocaine, benzos, “tusi”
- Liquid / powdered

Ketamine

Doctor admits to role in Matthew Perry's death, pleads guilty to federal ketamine charge

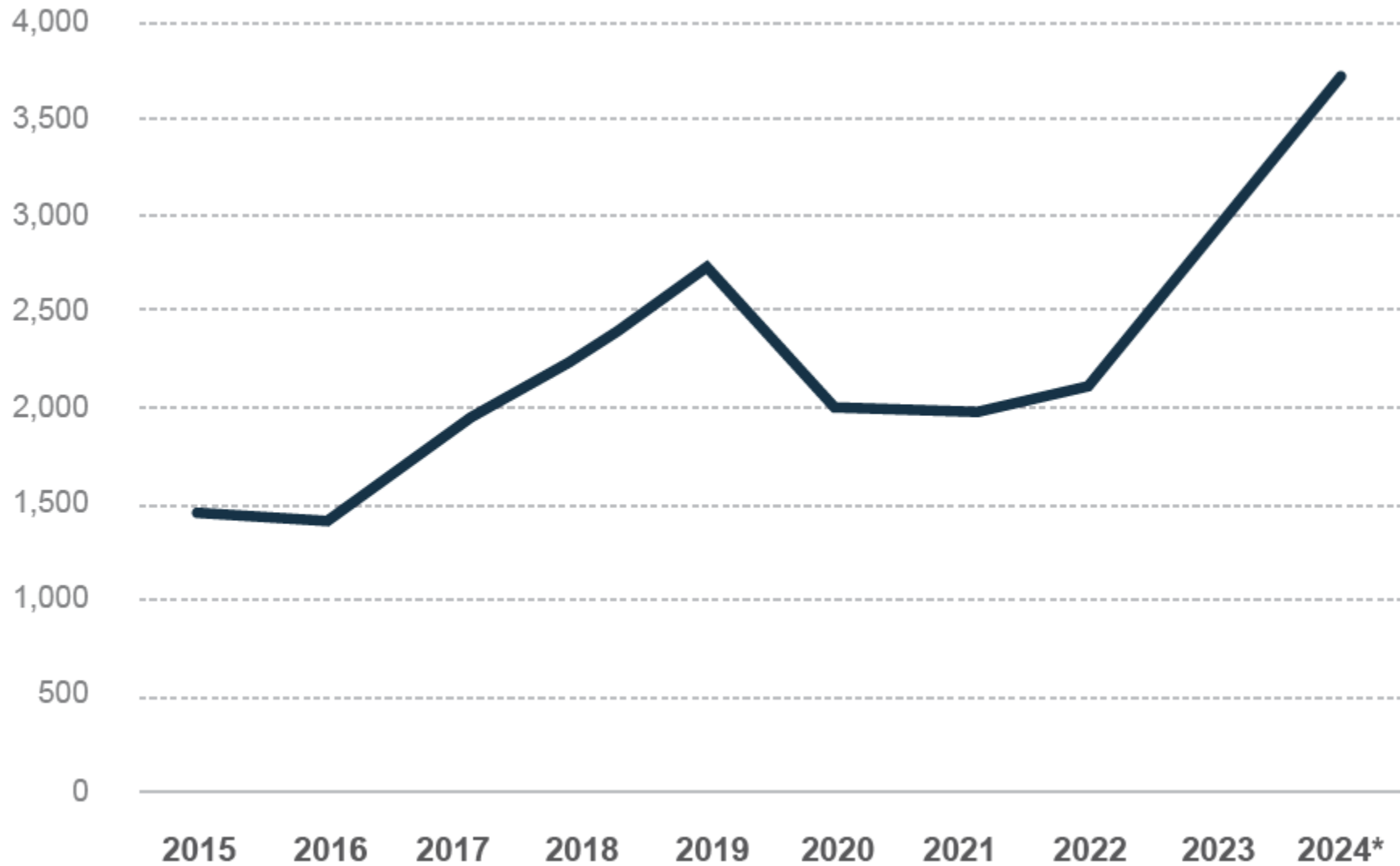
KCAL
NEWS

By Marissa Wenzke

Updated on: October 2, 2024 / 2:52 PM PDT / KCAL News



Figure 47. Ketamine Submissions to DEA Forensic Laboratories, 2015-2024



**2024 data is preliminary and subject to change*

Source: National Forensic Laboratory Information System, data retrieved April 10, 2025



Ketamine

110 pounds of ketamine found in U.K. man's bag at Detroit Metro Airport

by Samantha May | News Channel 3 | Thu, December 21st 2023 at 10:43 AM



110 pounds of ketamine were found in large plastic bags within a United Kingdom's man baggage at the Detroit Metro

ADDITIONAL
August 2024
1 kilo ketamine
seized in Sanilac
County
USPIS/HSI/TNU

MSP Labs
Ketamine in
fentanyl
19x 2024
3x 2023



Ketamine

MSP Forensic Labs

Q1 2024 – 8 + 1 in fentanyl sample

Q2 2024 – 14 + 3 in fentanyl samples

Q3 2024 – 10 + 7 in fentanyl samples

Q4 2024 – 8 + 8 in fentanyl samples

Total 40 + 19 in fentanyl samples

Q1 - 2025 – 8 + 18 in fentanyl samples



Drug Seizure and Identification Trends

Nitazines

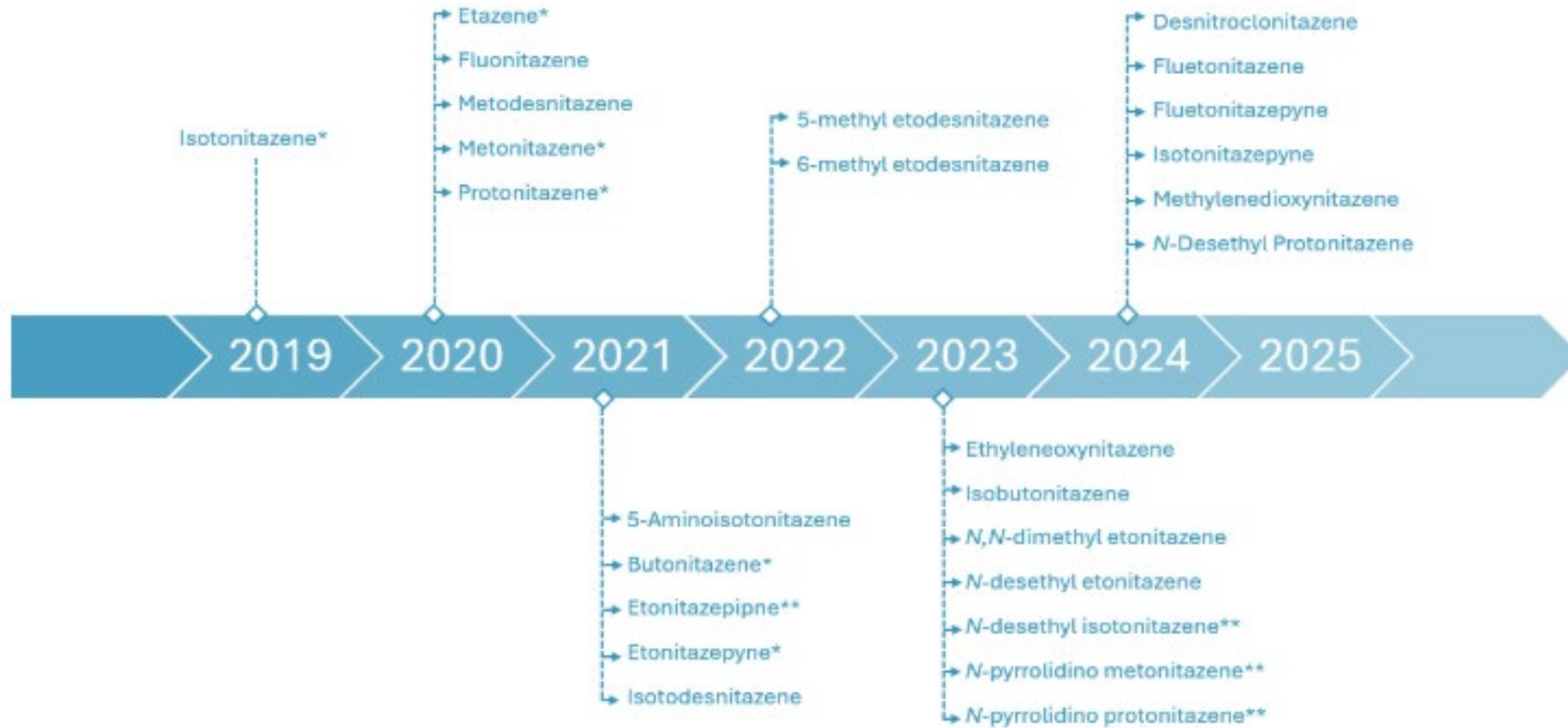


Nitazenes

- Class of powerful synthetic illicit **opioids** (naloxone may reverse)
- Appearing since 2019; originally created (1950's) as a possible prescription pain medication, but **never approved for use in the United States**.
- Generally schedule I
- Limited clinician awareness in the emergency medical field*
- **Some nitazenes are 10x - 100x more potent than fentanyl**
- China-sourced, and most likely being mixed into the drug supply by dealers in the U.S.
- Rapidly changing drug landscape - powders, tablets, liquids



Figure 1: Number of different nitazenes reported to UNODC EWA over time



JANURARY 2025

**COLOMBO PLAN
HEALTH ALERT**

Emerging Global Synthetic Opioid Threat:

Increasing Reports of Nitazene Toxicity

UNITED STATES

- CFSRE/NPS Discovery regularly updates positivity rates in the US for nitazenes in its trend reports and includes analytical data on each new emerging opioids in its drug monographs.
- A collaboration between CFSRE, US Customs and Border Protection and the Colombo Plan recently identified in one seizure a highly potent counterfeit oxycodone tablets (OC80's) containing on average 24 mg of metonitazene (together with amphetamine, PCE, 2-fluoro-2-oxo-PCE, pentylone, N,N-dimethylpentylone, and N-pyrrolidino protonitazene). Another set of metonitazene only tablets contained an average of 35 mg, which would be equivalent in potency to approximately 350 mg of fentanyl in a single tablet and highly lethal. For comparison a typical counterfeit fentanyl tablet contains less than 2 mg of fentanyl.



Nitazenes

**COLOMBO PLAN
HEALTH ALERT**



Australia



European Union



United Kingdom

JANURARY 2025

**COLOMBO PLAN
HEALTH ALERT**

Emerging Global Synthetic Opioid Threat:

Increasing Reports of Nitazene Toxicity

Seized Drug Case: Peoria County, IL

Fentanyl, Xylazine, Quinine/Quinidine, 4-ANPP, Ethyl 4-ANPP, Heroin, Phenethyl 4-ANPP, Diphenhydramine, Cocaine, 6MAM, Lidocaine, N-phenethyl-N-phenylpropionamide, Acetyl fentanyl, N-pyrrolidino iso/protonitazene, Acetylcodeine, Clonazepam, N-pyrrolidino metonitazene, Papaverine, Brorphine, Morphine, Iso/Protonitazene, Noscapine, N-propionyl, Norfentanyl, Eutylone, Methamphetamine, N-pyrrolidino etonitazene, Codeine, Norfentanyl, Butonitazene, Para-bromo 4-ANPP, Flualprazolam and Acetaminophen

Toxicology Case: Grand Rapids, MI

Isotonitazene, para-Fluorofentanyl, Fentanyl, Heroin (Morphine, Codeine, Noscapine), Cocaine, Benzoylecgonine, Methamphetamine, Amphetamine, Diazepam, Alprazolam, 7-Amino Clonazepam, Nordiazepam, Oxazepam, Temazepam, Xylazine, Levamisole, Lidocaine, Monoethylglycinexylidide, Phenacetin, Diphenhydramine, Norfentanyl, O-Desmethyltramadol, 4-ANPP, N-propionyl Norfentanyl, Quinine/Quinidine, N-Desethyl Isotonitazene, Phenethyl-4-ANPP, Naloxone



Nitazenes

MSP Forensic Labs

Q1 2024 – 1 + 2 in fentanyl samples

Q2 2024 – 2 + 2 in fentanyl samples

Q3 2024 – 5 + 4 in fentanyl samples

Q4 2024 – 2 + 0 in fentanyl samples

Total 10 + 8 in fentanyl samples

Q1 2025 – 0 + 3 in fentanyl samples



Drug Seizure and Identification Trends

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate



Drug Seizure and Identification Trends

~~Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate~~

Bis or BTMPS



Tinuvin[®] 770 DF

Product Description

Tinuvin 770 DF is a solid basic hindered amine light stabilizer (HALS) developed for coating, adhesive and sealant applications.

Key Features & Benefits

- Good long-term performance
- Good thermal stability

Chemical Structure

Tetramethyl piperidine derivative

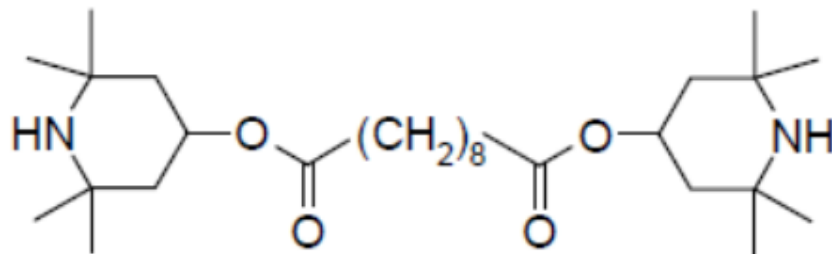
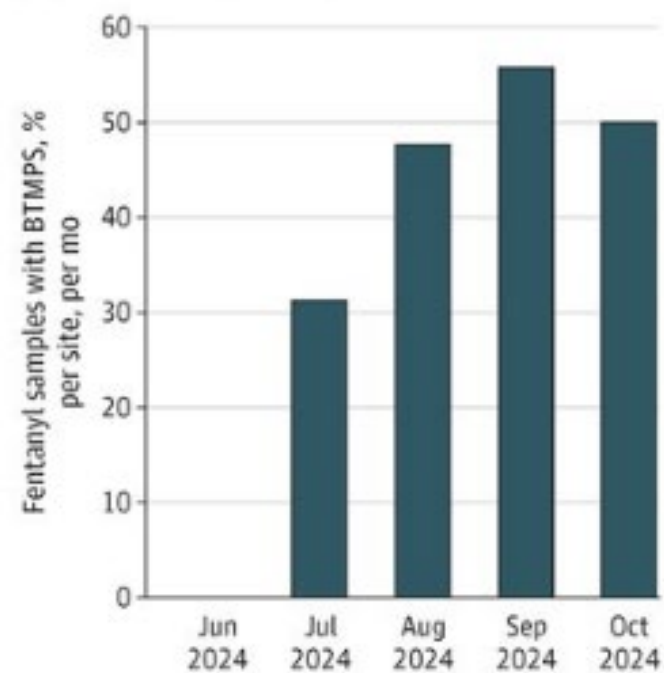
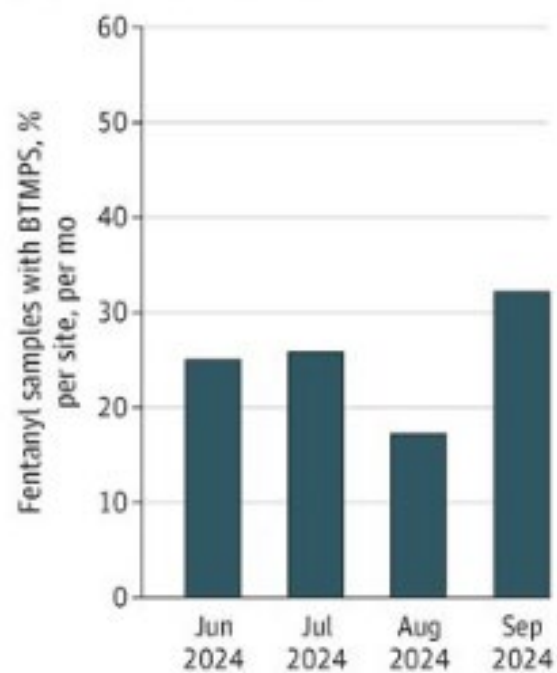


Figure. Percentages of Samples Sold as Fentanyl That Contained BTMPS

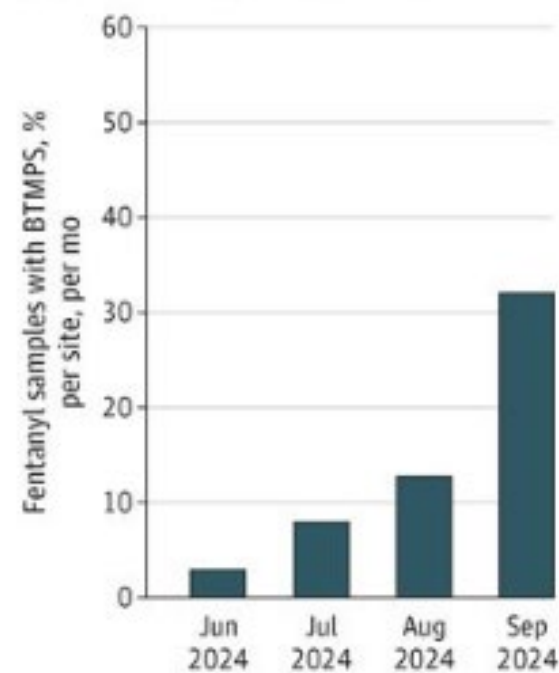
A Los Angeles (n = 188)



B Philadelphia (n = 96)



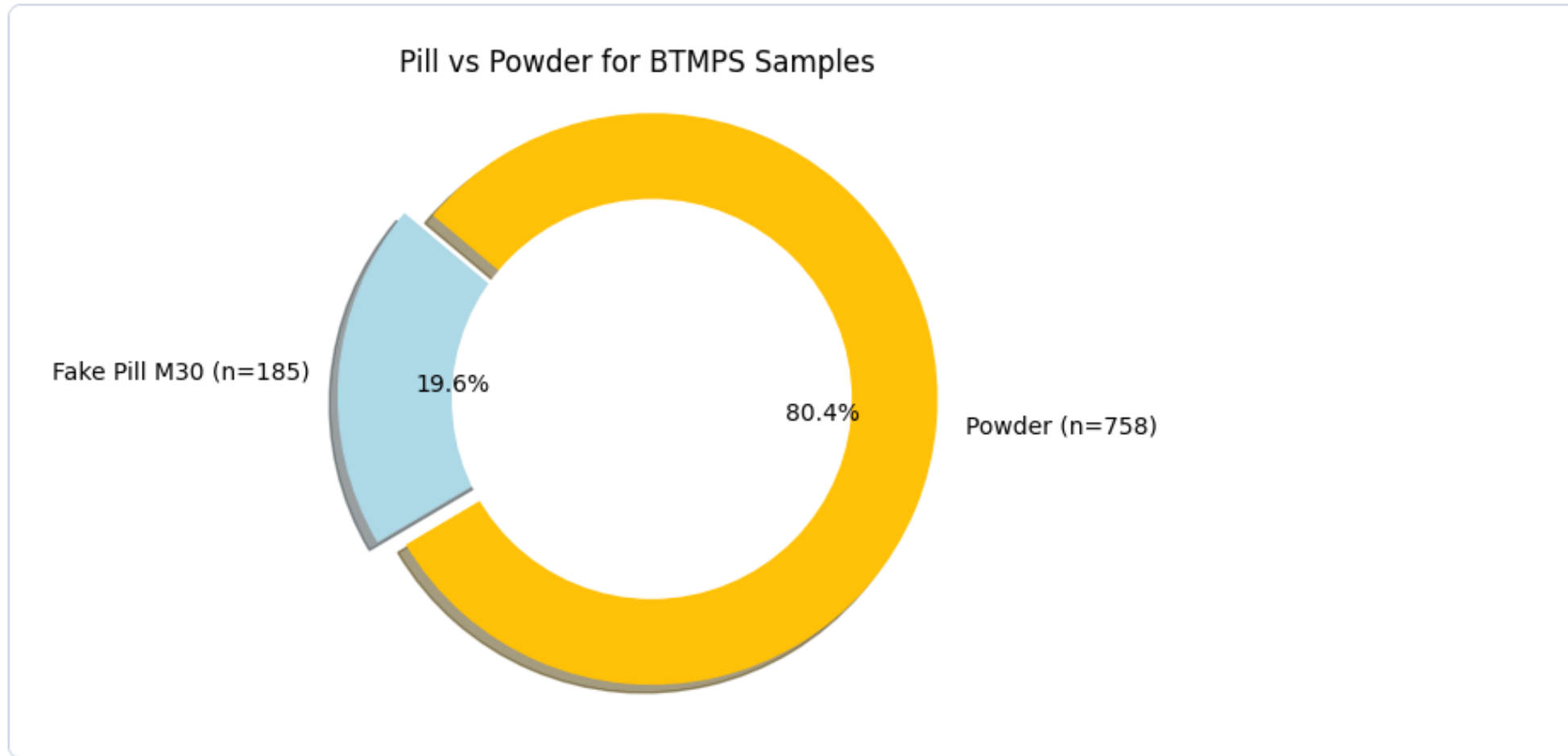
C Other sites (pooled) (n = 486)



University of North Carolina Street Drug Analysis Lab

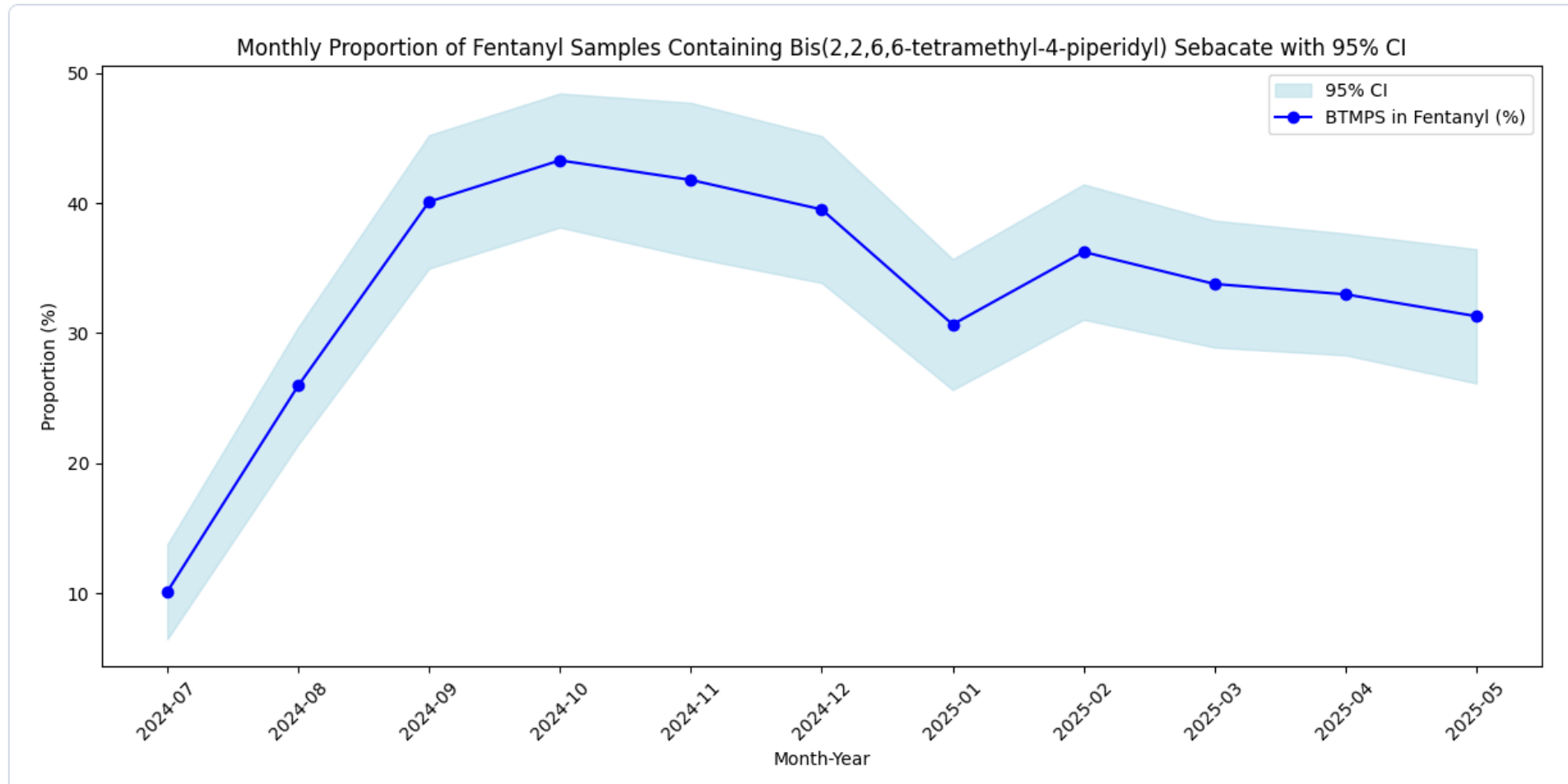
Powder or Pill?

Initially BTMPS was found only in powder form. But increasingly it has been found in fake M30s in Colorado, Oregon, and New Mexico.



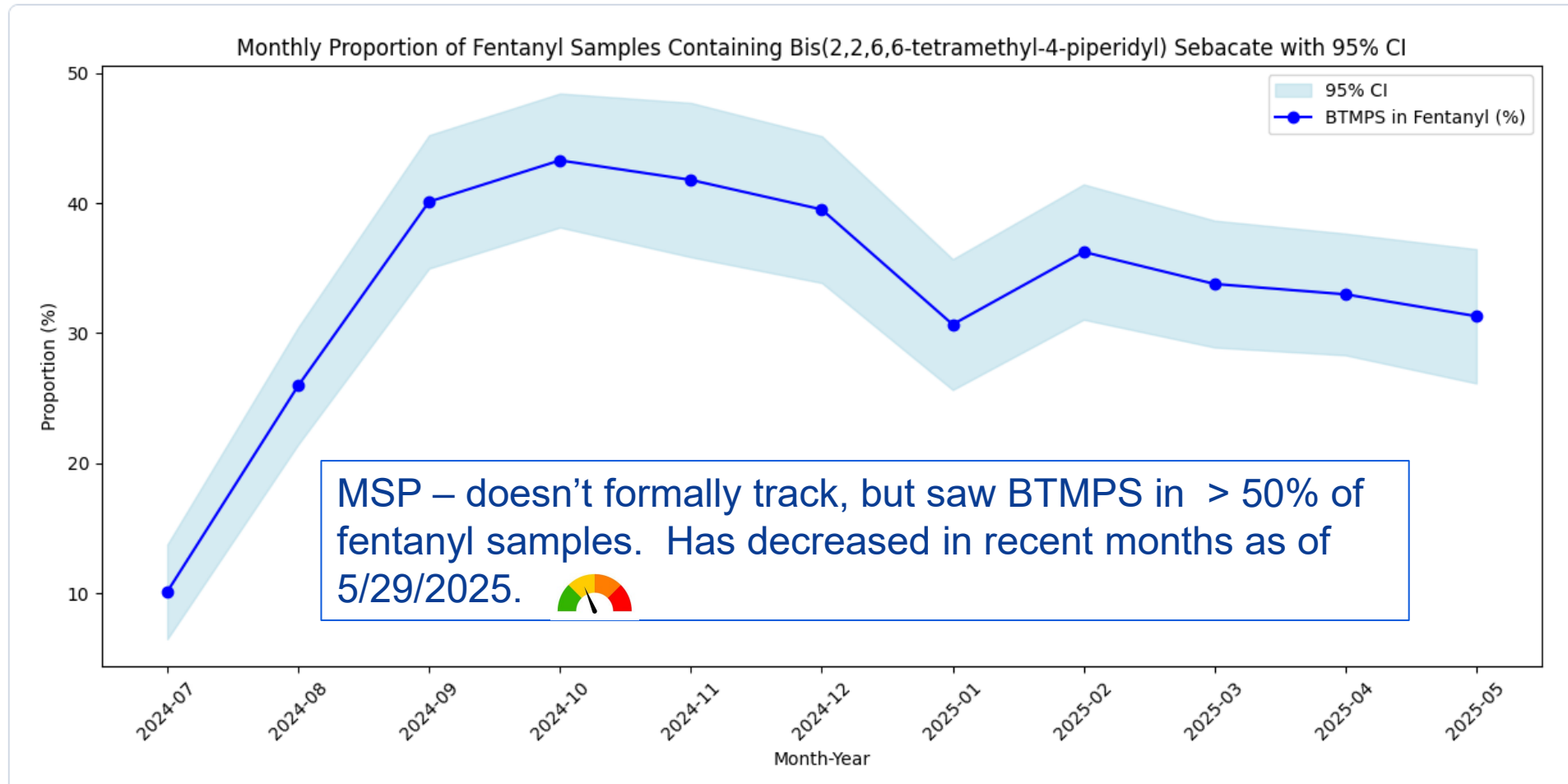
University of North Carolina Street Drug Analysis Lab - BTMPS

Prevalence Trend of BTMPS in Fentanyl

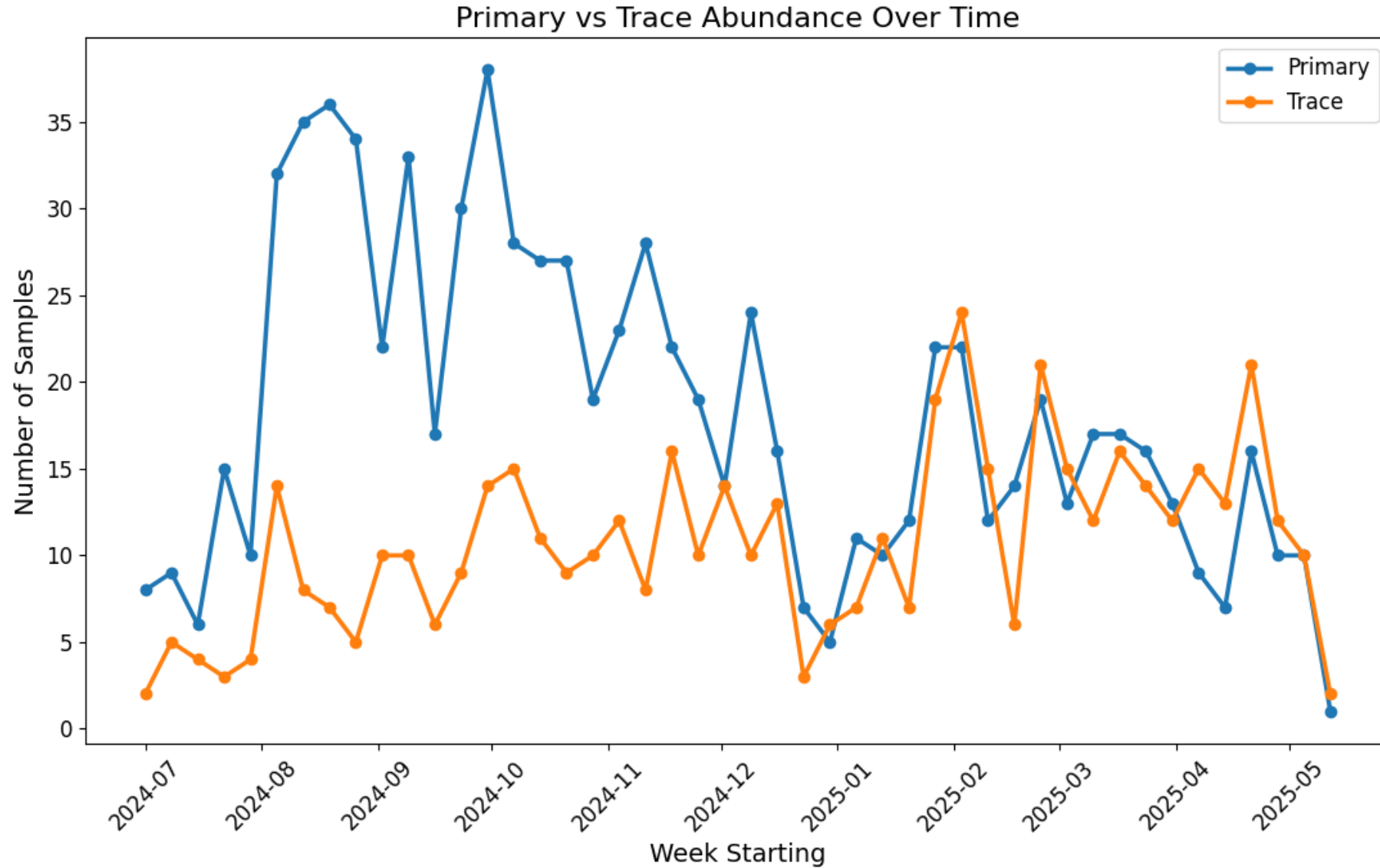


University of North Carolina Street Drug Analysis Lab - BTMPS

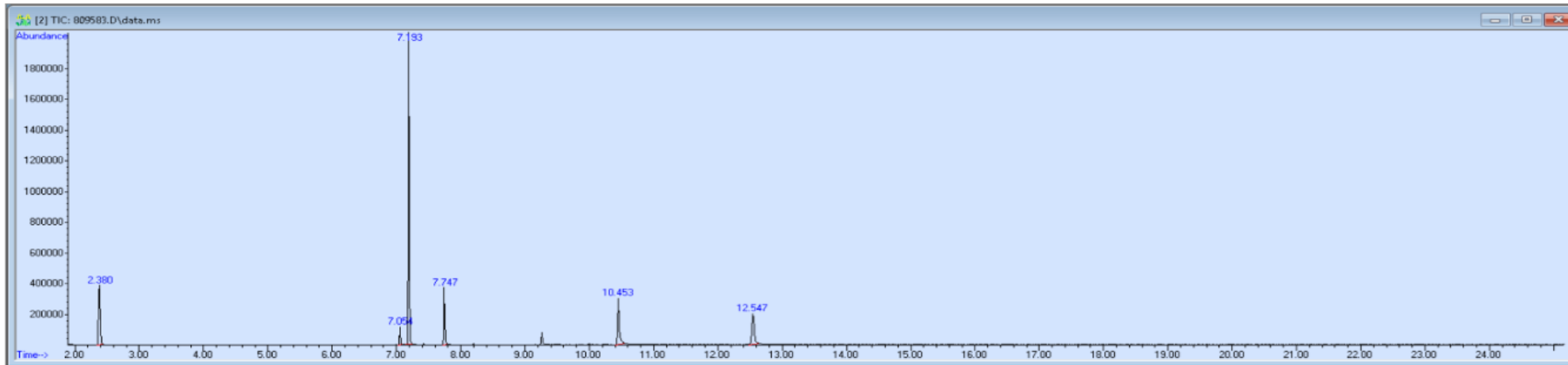
Prevalence Trend of BTMPS in Fentanyl



University of North Carolina Street Drug Analysis Lab - BTMPS



University of North Carolina Street Drug Analysis Lab



809583

From Grand Rapids, Michigan on April 2, 2025
Unclear what it was before the lab

This is a messy brew of 8 major substances:

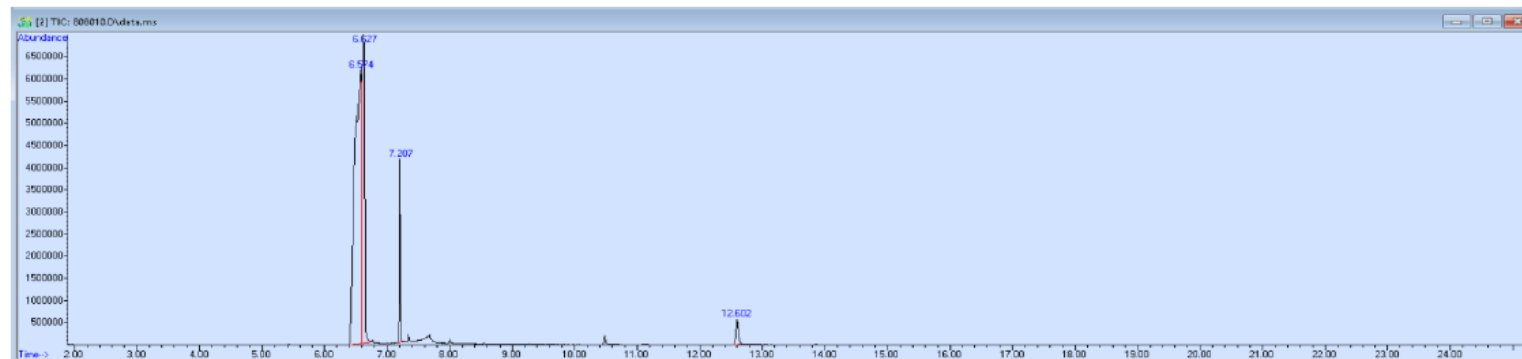
- dimethyl sulfone (methylsulfonylmethane MSM)
- caffeine
- lidocaine
- ketamine
- procaine
- 4-ANPP
- fentanyl
- bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

But we found lots of contaminants too, with traces of medetomidine + xylazine + 6-monoacetylmorphine (6-MAM) + heroin + phenethyl 4-ANPP + clonazepam. Trace substances in small quantities are usually harmless, but can sometimes cause health problems.

Unexpected sensations may be due to these.



University of North Carolina Street Drug Analysis Lab



808010

From Muskegon, Michigan on February 11, 2025

Assumed to be fentanyl; M30

3 major substances detected:

- acetaminophen (Ingredient in Tylenol)
- lidocaine (Local anesthetic)
- bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

And we also found traces of fentanyl. Trace substances in small quantities are usually harmless, but can sometimes cause health problems. Unexpected sensations may be due to these.



Drug Seizure and Identification Trends

Nitrous Oxide

(almost done!)



Nitrous oxide poisoning, deaths sharply rising among Michigan youths, experts warn

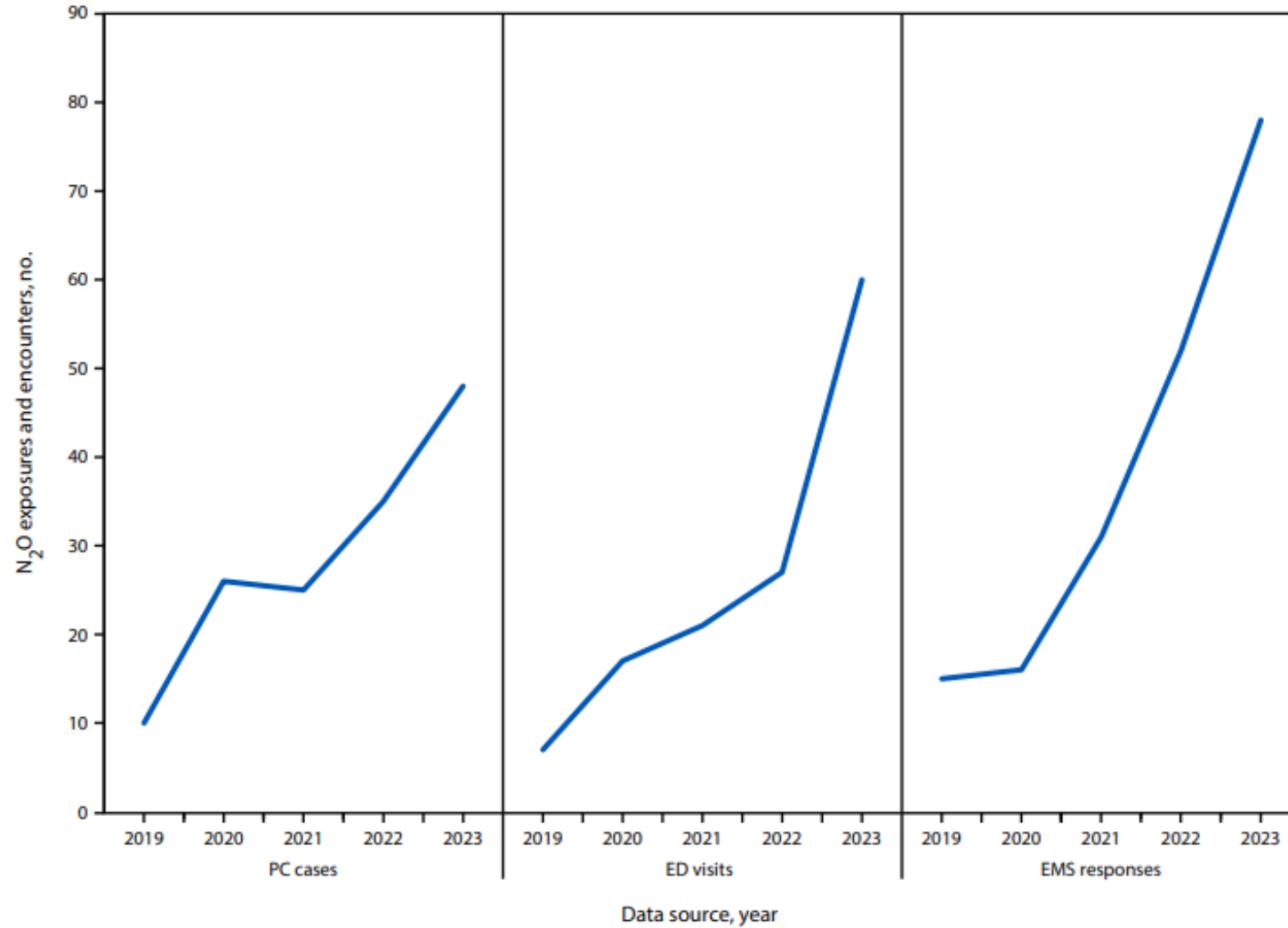
By  Daniel Schoenherr  and  Capital News Service April 25, 2025

Emergency departments across the state saw a fivefold increase in nitrous oxide-related poisonings and deaths between 2019 and 2023, according to a new study from Wayne State University.

- Used in controlled medical/dental settings for patient sedation
- Misuse - frostbite damage to face and vocal cords, ruptured lungs
- Regular or prolonged use - **vitamin B12** deficiency causing nerve damage and paralysis



FIGURE. Poison center cases, emergency department visits, and emergency medical service responses related to recreational nitrous oxide misuse — Michigan, 2019–2023



Abbreviations: ED = emergency department; EMS = emergency medical service; N₂O = nitrous oxide; PC = poison center.



For Information on other topics of interest, including:

- County-Level Overdose Fatality Reviews
- History (brief) of opioid use
- Cartels and Drug Trafficking Routes
- Why Fatal Overdoses are Decreasing - Theories
- Fentanyl
- Heroin
- Cocaine
- Crystal Meth
- “Tusi” (2C)
- Tianeptine
- Overdose Surveillance
 - ODMAP
 - UM-SOS

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