

Changing Drug Landscapes in Philadelphia and Beyond

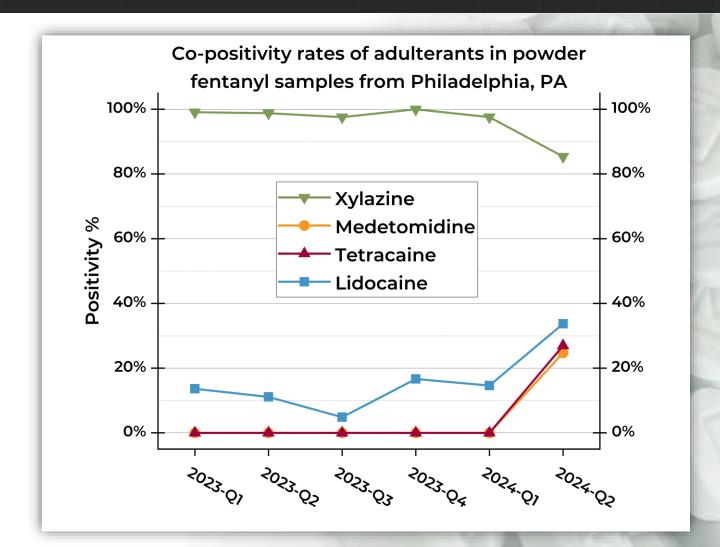
NPS Discovery Quarterly Webinar, July 2024

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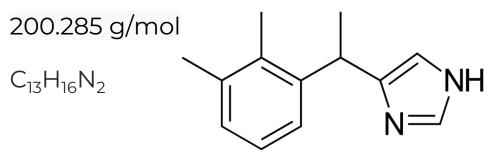
TRENDS W/ FENTANYL ADULTERANTS

- Xylazine has been [and still] king of the fentanyl adulterants in Philadelphia, PA, but its dominance may be ending
- Xylazine is scheduled in some states, including PA. Yet to be determined the outcome of national scheduling, but a bill has passed in Congress
- Medetomidine is coming up
- Tetracaine observations rising
- Lidocaine 2x change Q1 to Q2

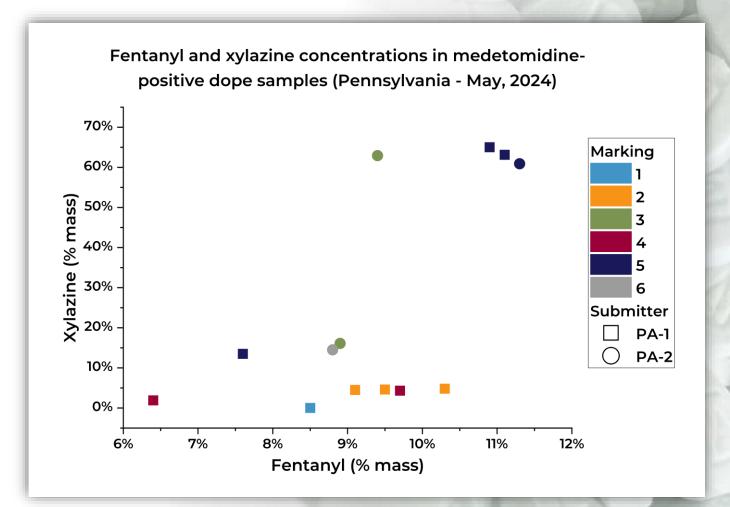




MEDETOMIDINE

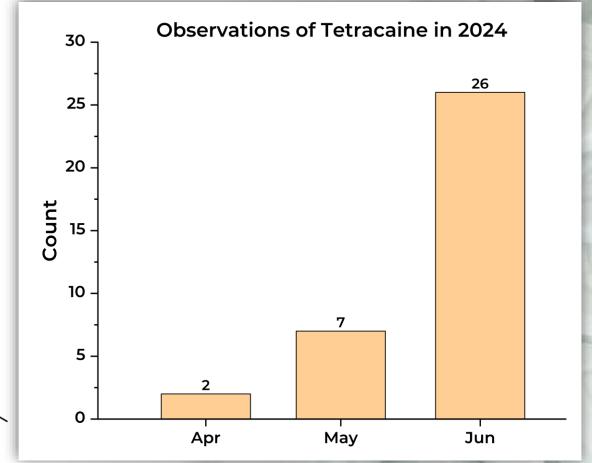


Submitter	Received	Marking	Fentanyl	Xylazine	Est. Medetomidine
PA-1	5/21/2024	1	8.5%	0.0%	1.7%
PA-1	5/15/2024	2	9.1%	4.5%	10.9%
PA-1	5/15/2024	2	9.5%	4.6%	9.5%
PA-1	5/15/2024	2	10.3%	4.8%	11.3%
PA-2	5/10/2024	3	8.9%	16.1%	9.8%
PA-2	5/10/2024	3	9.4%	62.9%	<1%
PA-1	5/21/2024	4	6.4%	1.9%	3.8%
PA-1	5/7/2024	4	9.7%	4.3%	18.4%
PA-1	5/2/2024	5	7.6%	13.5%	6.1%
PA-2	5/10/2024	5	11.3%	60.9%	<1%
PA-1	5/7/2024	5	11.1%	63.1%	<1%
PA-1	5/7/2024	5	10.9%	65.0%	<1%
PA-2	5/10/2024	6	8.8%	14.5%	12.3%



TETRACAINE

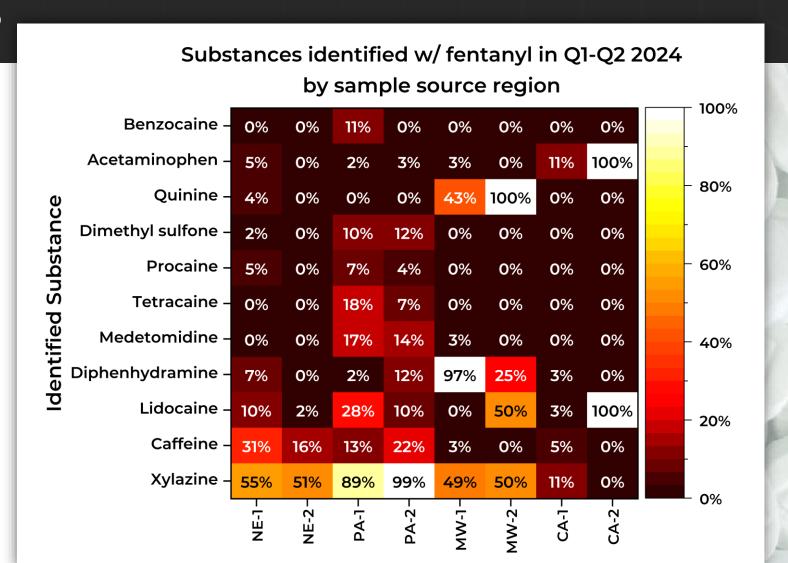
- Powerful anesthetic
- Infrequently observed prior to Q2 2024 (n = 4)
- Fentanyl co-occurring
- Also present w/ other NPS:
 - Nitazene analogs
 - Medetomidine



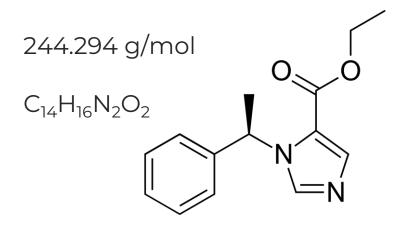


FENTANYL TRENDS

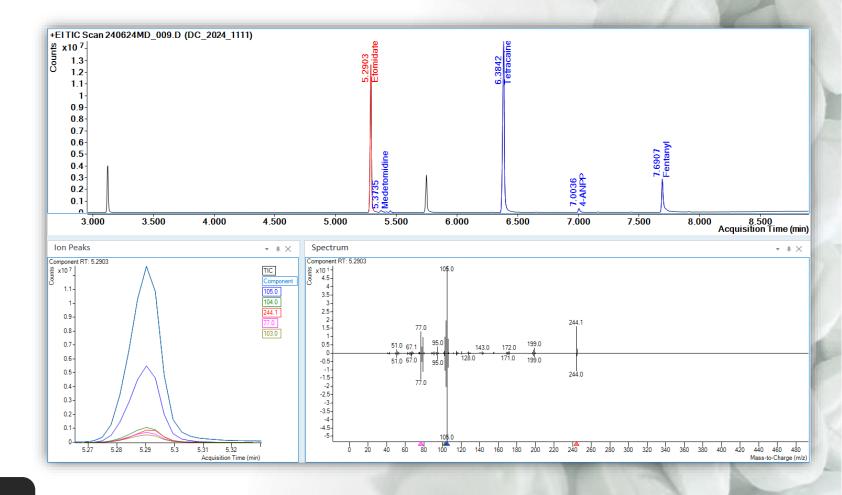
- Benzocaine
- Acetaminophen
- Quinine
- Dimethylsulfone,
- Procaine, Tetracaine, Medetomidine
- Diphenhydramine
- Lidocaine
- Caffeine
- Xylazine



ETOMIDATE



- Observed for the first time 6/24/2024 in sample collected 6/20/2024 in Philadelphia, PA
- Associated with Fatal OD



SUMMARY

- *These findings only apply to the subset of samples discussed
- Xylazine may be in decline
- Tetracaine and Medetomidine on the rise as toxic adulterants in fentanyl
- Distinct geographic trends exist in adulteration of powder fentanyl
- Etomidate is an adulterant worth watching







Thank you! Questions?

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