



Check It:

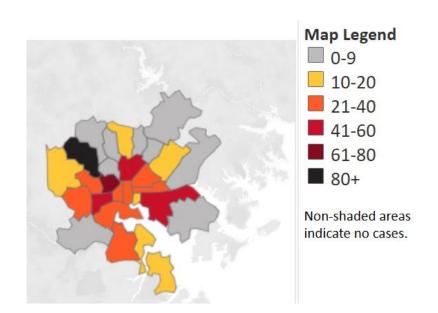
Comparing participant report to spectrometerdetected contents in point-of-care drug checking samples in Baltimore, Maryland, US

Rae Elkasabany, Danielle Friedman Nestadt, Emily Martin, Kristin E. Schneider, Susan G. Sherman Harm Reduction International Conference 2025 April 29, 2025

Baltimore Background



- City of approximately 568,000 people
- Highest fatal overdose rate of any U.S. city, but improving
- ▶ 633 overdose deaths between March 2024 & February 2025
 - Nearly half (48%) among Black men
 - Deaths concentrated in particular geographic areas
- ▶ 8 syringe services programs operating in the city
 - 6 participate in mail-in drug checking program





- 5 locations in Baltimore City
- Expansion in progress



Advanced Wound Care

HIV Testing & PrEP

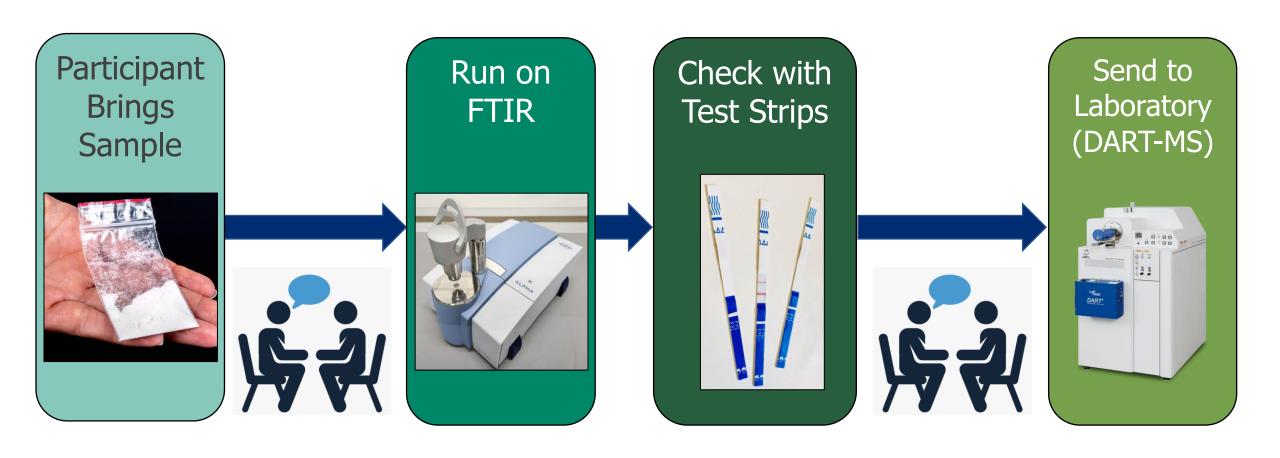
Harm Reduction Supplies





Check It Drug Checking Workflow









N=10-20 PWUD with samples to test in each neighborhood \$20 for post-testing interview

Most common reasons to try DC were curiosity (59%) & for gift card (39%)

Drug cuts of concern ranged from Benzos & Xylazine to baby laxative & meat tenderizer

36% somewhat or very unsure about contents

Drug Checking Pilot (cont.)



100% found drug checking helpful

100% would use again

37% would change how use drugs

29% would change how buy drugs

88% would share results with others

Participants would use drug checking:

- Before use/sharing (84%)
- Before selling (51%)
- After unexpected experience (88%)
- Whenever convenient (88%)

Data collected about samples

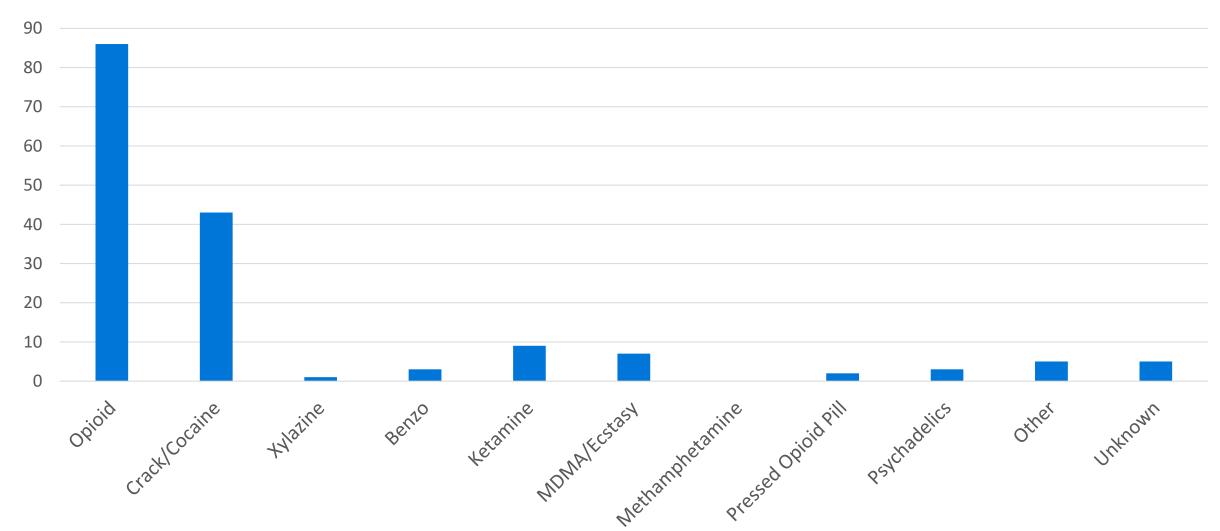


- Location of testing
- What the substance was sold as
- Physical characteristics of the sample and container, including brand, if relevant
- If the sample has been used previously, method of consumption and adverse experiences
- FTIR results
- Test strip results

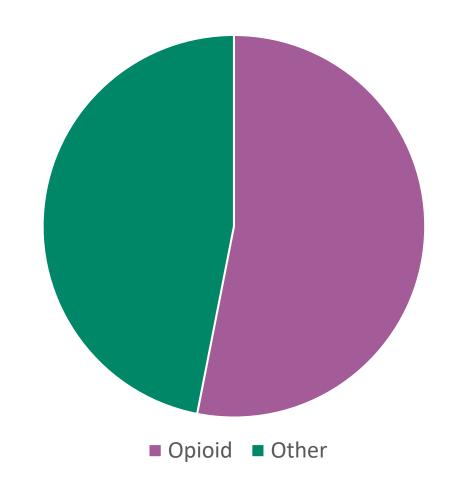
*We do NOT record any information about individual participants.



What samples were sold as... (n=162)

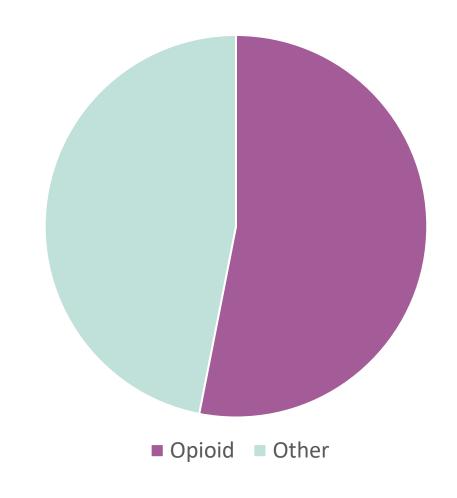


53% of tested samples were sold as an illicit opioid



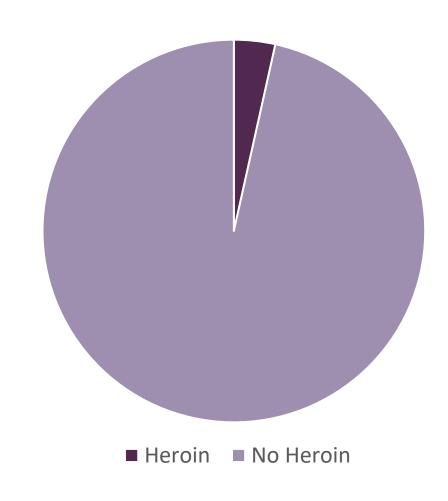


Among the samples sold as opioids...



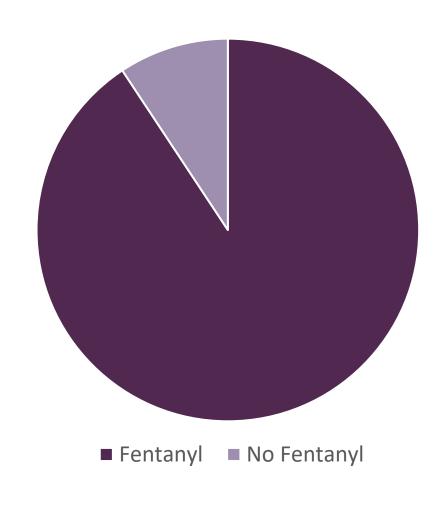






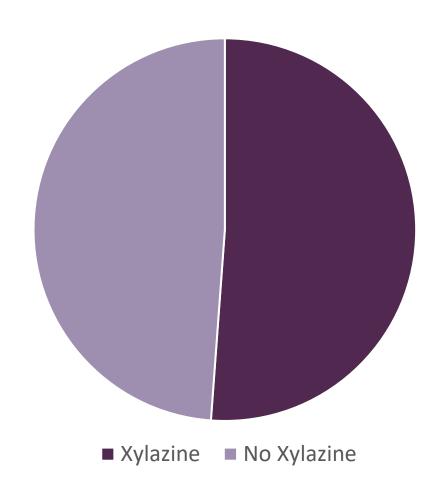






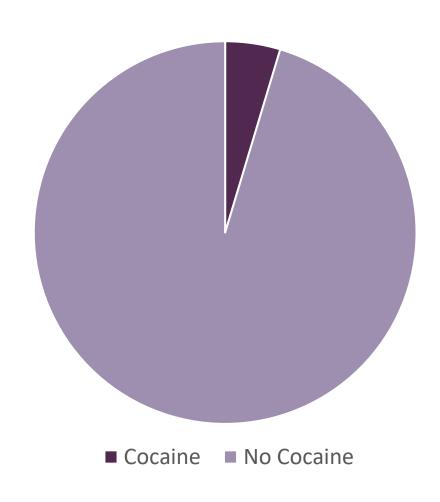






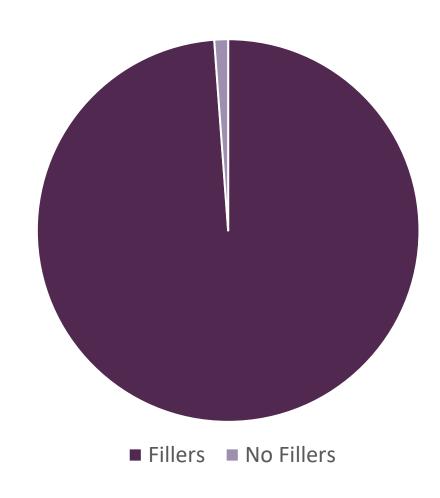




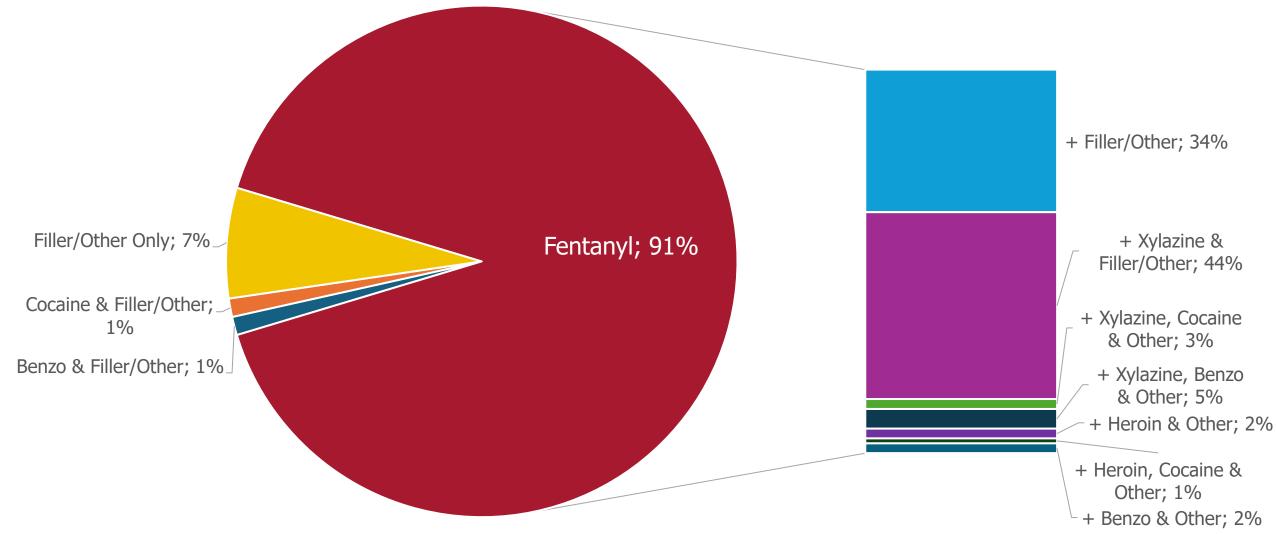












Other Findings...



- Xylazine was never detected in the absence of fentanyl
- •54.2% of samples containing fentanyl also contained xylazine
- •93% of samples sold as crack/cocaine actually contained cocaine

Communicating Results



- Vast majority of participants reported not expecting multiple cuts or fillers
- Results provided with the caveat of tool limitations
 - ▶ Major components detected by FTIR, and there is a 5% detection limit
 - Test strip results reported as positive or negative without indicating certainty; possibility of false positives
 - Information on how to receive secondary lab results
- Drug education and harm reduction counseling provided alongside results
 - Brief explanation of each cut, possible reasons cuts may be present, potential risks, and tips for mitigating those risks
 - ▶ Naloxone, test strips, and other harm reduction supplies

Lessons Learned



- ▶ Importance of what and how you ask to get the data you want and need
 - Example: Initially, many samples were recorded as having been sold as "heroin" when participants used slang terms associated with heroin, but once we added follow-up questions to specifically ask if they thought their samples contained heroin and/or fentanyl, we were able to see a more nuanced and accurate picture of what participants expect their drugs to be.
 - Difference between what drugs are sold as vs. what a participant thinks they contain
- Delicate balance between getting detailed data and creating participant burden

Thank you!



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- National Institute on Drug Abuse
- Maryland Department of Health
- Bloomberg American Health Initiative
- ► RaDAR/NIST
- Clare Schmidt/Remedy Alliance
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