# Public Health Drug Checking

Mary Figgatt

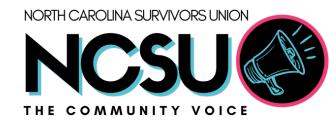
Michigan Harm Reduction Summit

May 17, 2022

## Disclosures

I have no relevant financial or nonfinancial relationships to disclose.

## **Our Team and Funder**



**UNC** INJURY PREVENTION RESEARCH CENTER (IPRC)

**GILLINGS SCHOOL OF** GLOBAL PUBLIC HEALTH

**UNC** HUSSMAN SCHOOL OF JOURNALISM AND MEDIA







Louise



Diane



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Funding:



Brandie



Nabarun



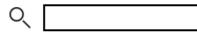
Maryalice



Mary







Home Studies Code + Data Team News Contact



OpioidData.org

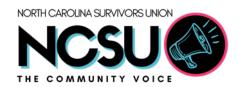












### **DUNC**

Opioid Data Lab



	Fentanyl Test Strips (FTS)	Fourier-Transform Infrared Spectroscopy (FTIR)	Gas Chromatography-Mass Spectrometry (GCMS)		
What does it tell us?	Presence/absence of fentanyl	Presence of thousands of different substances, including fentanyl	Chemical formulation confirmation of opioids, byproducts, and fillers		
Benefits	Inexpensive, easy to use, quick turnaround for testing	Comprehensive range of substances, quick turnaround for testing	Extremely wide range of substance detection, much more sensitive analysis.		
Limitations	Testing is limited to fentanyl detection, false positives	Reliability of results, FTIR machine is expensive but has little to no ongoing costs once purchased, requires training of the operator	Expensive, not as timely		
What does it look like?		Heroin HCL	19.25 327.14658 Diacetylmorphine 6.31 17.31 18.30 19.15 03235 207.03235 207.03235 19.05 03235 207.03235 207.03235 19.05 19.90 207.03235 207.03235 19.05 19.90 207.03235 207.03235 19.05 19.90 207.03235 207.03235 19.05 19.90 207.03235 207.03235 19.05 19.90 207.03235 207.03235 19.05 19.05 207.03235 207.03235 19.05 19.05 207.03235 207.03235 19.05 19.05 207.03235 207.03235 19.05 19.05 207.03235 207.03235 19.05 19.05 207.03235 19.05 19.05 19.05 207.03235 19.05 19.05 207.03235 19.05 19.05 207.03235 19.05 19.05 207.03235 207.03235 19.05 19.05 207.03235 207.03235 207.03235 207.03235 19.05 207.03235 207.0325 20		

# Principles and Practice

## What are the benefits of drug checking?

Drug checking tools expand our knowledge to reveal what is actually in street drugs.

Studies have shown that drug checking encourages safer drug use practices.<sup>1,2</sup>

People can adjust drug use **behaviors**, make informed **decisions** about their health, and implement other **harm reduction** practices.

Peiper N, et al. Fentanyl test strips as an opioid overdose prevention strategy: findings from a syringe services program in the Southeastern United States. Int J Drug Policy. 2019;63:122-128.
 Measham F. City checking: Piloting the UK's first community-based drug safety testing (drug checking) service in 2 city centres. Br J Clin Pharmacol. 2020;86(3):420-428.

# **Public Health Drug Checking**

At the individual level, drug checking is a **service**.

At the community level, drug checking helps to **monitor the drug supply**.

The approach is **centered in public health and harm reduction.** 

 ACCEPTED MANUSCRIPT

 Drug Checking for Novel Insights into the Unception of Control of Supply (a)

 Nabarun Dasgupta , Mary C Figgatt

 American Journal of Epidemiology, kwab233, https://doi.org/10.1093/aje/kwab233

 Published:
 15 September 2021

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## Drug checking in practice

- Emphasizing and promoting individual autonomy and anonymity
- Leading through lived experience of drug use and science
- Aligning the science with community needs
- Incorporating new technologies and repurposing existing ones

# Drug Checking by Mail

NCO13

NCOL

NC01384



## Drive-thru Self-administered COVID Test Kit



ANONYMOUS DRUG CHECKING SERVICE UNC Gillings School of Global Public Health Mass Spectrometry Core Laboratory 125 South Road THE UNIVERSITY of NORTH CAROLINA # CHAPEL HILL Caudill Lab Building Chapel Hill, NC 27599 Not a controlled substance For Public Health Use ONLY sample Examples: describe the If found contact Dr. Nabarun Dasgupta NC01054 919-260-3808 VIALS & CARDS NCO1 ONLY DENT ENCLOSE EMPTY AGS

## UNC Drug Checking Kit

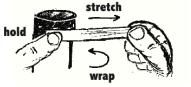
**1** Unfold paper cloth, lay out supplies.

- **2** Unpeel wax tape to unscrew vial.
- **3** Wear gloves to prevent conamination.



• Close vial <u>tightly</u>. Seal using wax tape.

Hold tape in closed fist to warm up for 3 seconds.



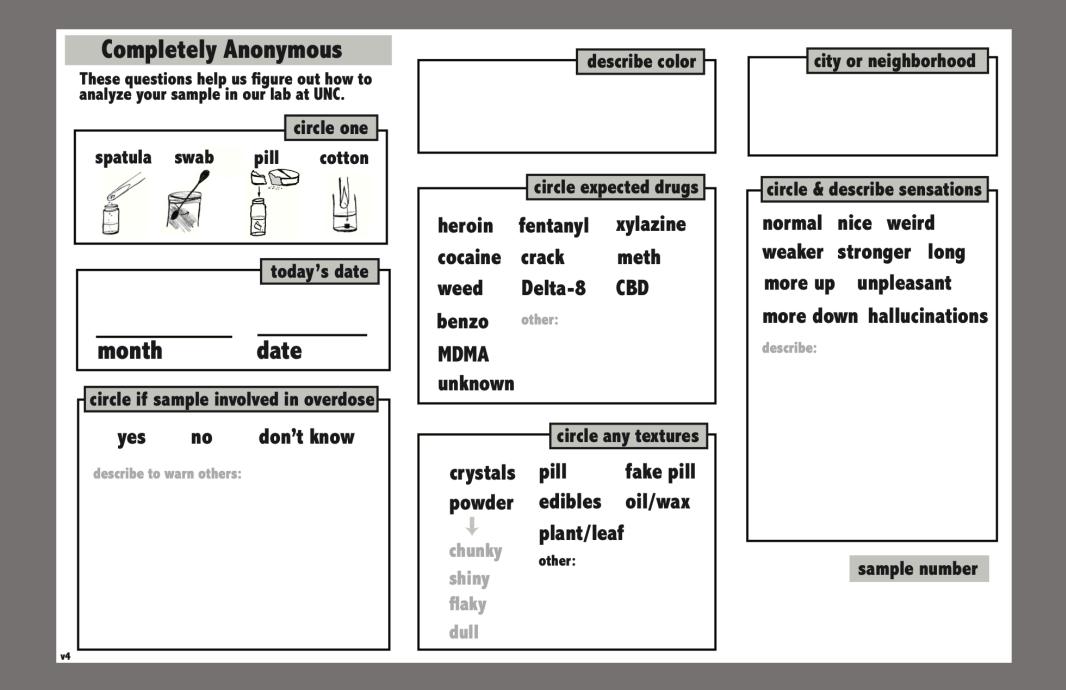
Remove tape from white backing.

6



Give QR code to donor for results.





# What even is "heroin" anymore?

Heroin Raleigh, NC October 11, 2021

- Xylazine
- Heroin
- Fentanyl
- Caffeine
- 4-ANPP
- Lidocaine
- Quinine
- Flurofentanyl
- 6-MAM
- Acetaminophen

Heroin High Point, NC September 11, 2021

- Heroin
- 6-MAM
- Fentanyl
- 4-ANPP
- Dimtheylsulfone
- Tramadol
- Cocaine

Heroin High Point, NC September 17, 2021

• Fentanyl

• 4-ANPP

Fake blue Roxi 30 Myrtle Beach, SC September 8, 2021

• Fentanyl

• 4-ANPP

	SEARCH LAB RESULTS BY	Advanced Search
DrugsData.org	All 🗸	GO
Erowid's anonymous drug analysis program Formerly called EcstasyData	Send in a sample for testing >	Support DrugsData >

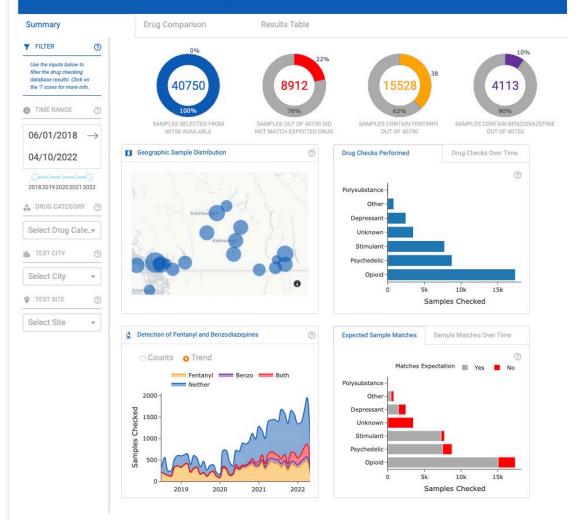
Test Results Test Result Statistics About Tests & Data About Us Contact Us FAQ

		Active Contents 🏴				
Photo	Sample Name	Substance	Ratio / Amounts 4	<u>Date</u> ▼ <sup>●</sup>	Location	Data Source
di -	<u>Tic Tac</u> Molly Code: 26732 Sold as: Molly	• MDMA	• 1	Oct 13, 2021	Grand Rapids, MI	<u>DrugsData</u>
网络西部	Xanax Alprazolam Code: 01910 Sold as: Xanax (Alprazolam)	• Alprazolam	• 1	Jun 07, 2021	Westland, MI	<u>DrugsData</u>
M.C.	3-HO-PCP Code: Zabba Sold as: 3-HO-PCP	• 3-HO-PCP	• 1	Jun 07, 2021	Canton, MI	<u>DrugsData</u>
AD	AD 30 Code: DD6B8 Sold as: Adderall	<ul><li>Caffeine</li><li>Methamphetamine</li><li>Methylsulfonylmethane</li></ul>	• 30 • 5 • 1	May 17, 2021	MI	<u>DrugsData</u>
	Acid Blotter; Tabs Code: GR001 Sold as: LSD-25	• LSD	• 1	Jan 25, 2021	Grand Rapids, MI	<u>DrugsData</u>
	LSD Blotter Code: A53B3 Sold as: LSD	• LSD	• 1	Jul 13, 2020	Grand Rapids, MI	<u>DrugsData</u>
	Crystal Ketamine Code: KETA9 Sold as: Ketamine	Ketamine	• 1	Jul 06, 2020	Detroit, MI	DrugsData
ste	XTC Code: SMCLB Sold as: MDMA	• MDMA • MDA	• 1 • trace	Jun 23, 2020	Detroit, MI	<u>DrugsData</u>
	Red Porsche Code: RP420 Sold as: Ecstasy	• MDA • MDMA	• 12 • 1	Jun 09, 2020	ML	<u>DrugsData</u>
	MDMA Code: TooT22 Sold as: MDMA	• MDMA	• 1	Feb 21, 2020	Rothbury, MI	<u>DrugsData</u>





#### Drug Checking Results

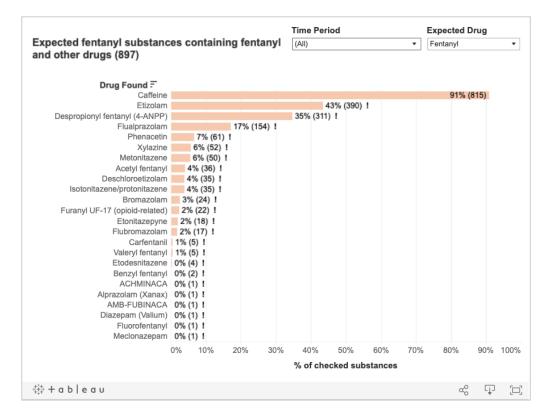


### **Toronto's Drug Checking Service**

Coordinated by the Centre on Drug Policy Evaluation

## Other drugs found

This graph shows the other drugs most commonly found in addition to the expected drug in substances checked, along with all unexpected noteworthy drugs found. It can be filtered by expected drug and the time period during which a substance was checked. **Note** that this graph does not include used equipment.



## Thanks for listening!

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Louise



Diane



Erin

#### Funding:



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