The Uncertain Promise of Using Advanced Technology Real-Time Drug Checking as a Mechanism for Harm Reduction, Structural Intervention, and Human Liberation



Greg Scott Lydia Karch Maya Doe-Simkins Acknowledgements





CHICAGO DEPARTMENT OF PUBLIC HEALTH







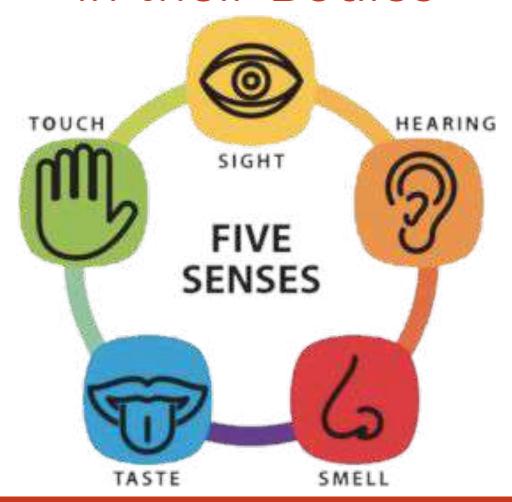


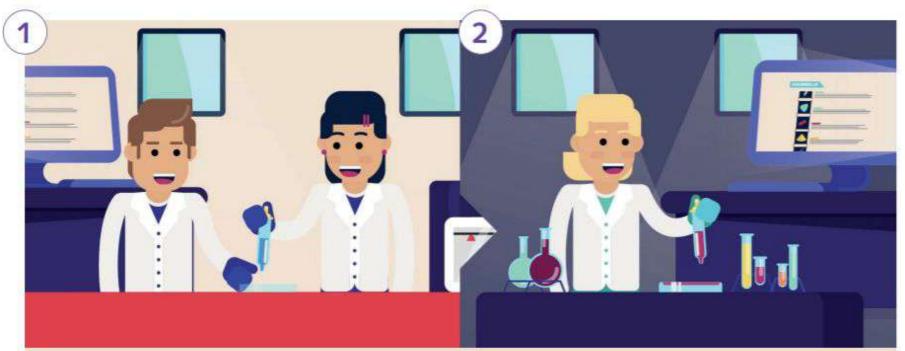


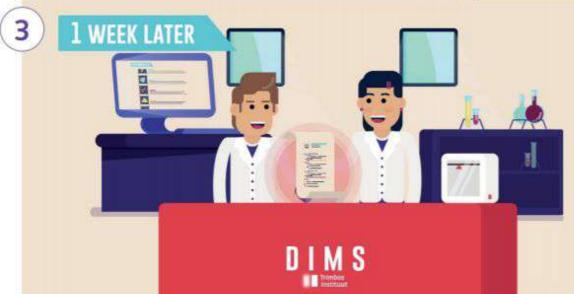




Longstanding Culture of Substance Checking among Humans who Put Stuff in their Bodies







Samples that cannot be identified are sent to the DIMS-bureau for further analysis. A week later, the laboratory results are entered into the online database by the DIMS-bureau. Users can then call the drug checking facility to obtain the test results.









European drug-checking services in existence in 2017



Source: T. Brunt. Drug checking as a harm reduction tool for recreational drug users: opportunities and challenges. Commissioned by the European Monitoring Center for Drugs and Drug Addiction (EMCDDA). https://www.emcdda.europa.eu/system/files/attachments/6339/EuropeanResponsesGuide2017 BackgroundPaper-Drug-checking-harm-reduction o.pdf. Updated 30 October 2017.





Indiana State Police planning to buy more devices

Sep 26, 2016 💂







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FREE ADMISSION AND PARKING MONDAY- FRIDA

SPON EN

State buys 5 devices to scan drugs, keep officers safe

State buys 5 of them to scan substances, keep officers safe

by Clara Turnage | October 11, 2018 at 4:30 a.m.



Follow



Russell Johnson, a contract instructor for Thermo Scientific, demonstrates the new TruNarc Handheld Narcotics Analyzer that the Arkansas State Police received Wednesday at state police headquarters in Little Rock. - Photo by Mitchell PE Masilun

Recomm

Parents ch meth

'Stadium s

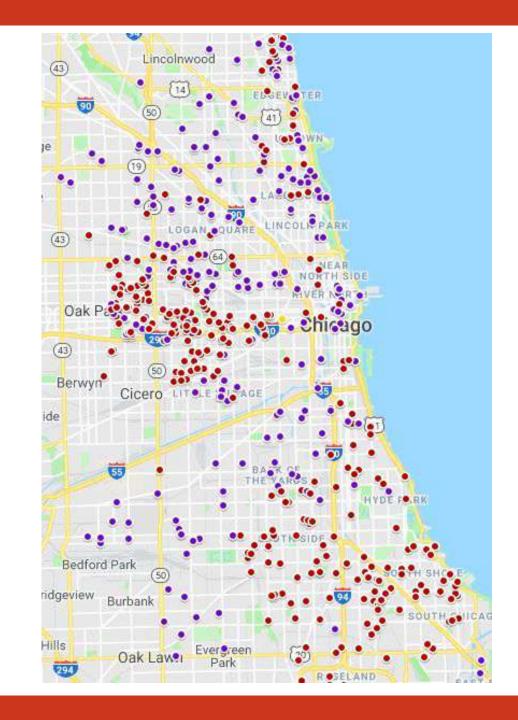
Cyclists di

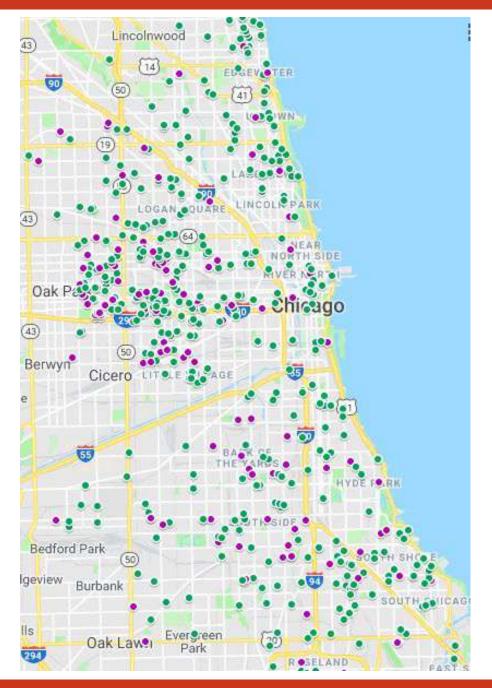


Origin Of The Idea



Origin Of The Idea





CHROMATOGRAPHY





SPECTROSCOPY

SPECTROMETRY





Ways in which drug checking services can vary

Technique	Colormetric reagents	High-performance liquid chromatography	Gas chromatography	Mass spectrometry
Timing				
Testing for	Presence or absence of a component	Information on range of substanc		ative information all compounds
Setting	At home	On-site/mobile	Re	emote site
Who	Individuals	Pr	ofessionals	
Results	Drug content	Public health alerts	Harm reduction information	n Brief interventions
Use of results	Individual harm reduction	n Public	health action	Market monitoring

Source: T. Brunt. Drug checking as a harm reduction tool for recreational drug users: opportunities and challenges. Commissioned by the European Monitoring Center for Drugs and Drug Addiction (EMCDDA). https://www.emcdda.europa.eu/system/files/attachments/6339/EuropeanResponsesGuide2017 BackgroundPaper-Drug-checking-harm-reduction o.pdf. Updated 30 October 2017.

Heterogeneous Mixture

VS

Homogeneous Mixture



particles distributed non-uniformly



particles distributed uniformly



Cereal in milk



Ice in soda



Vodka



Steel



Soil



Blood

Thought Co.



Air



Rain

This is a chocolate chip cookie. But is it?

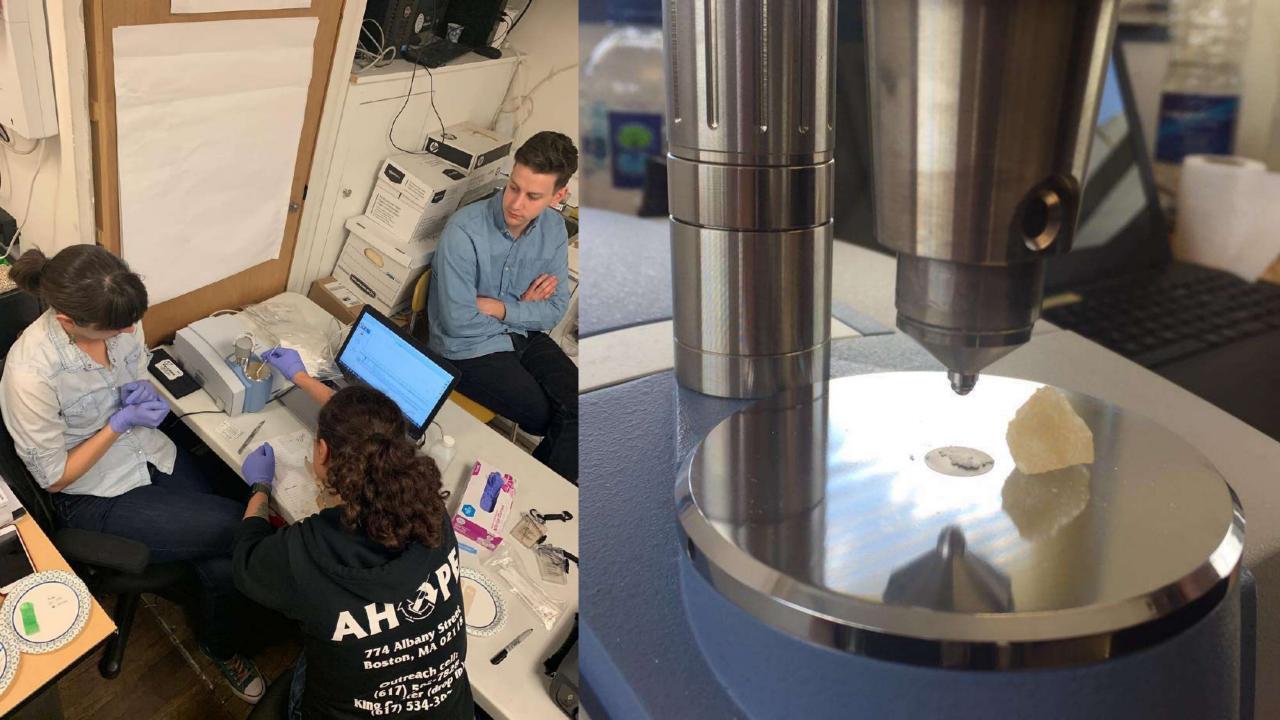


Step 1: FTIR





















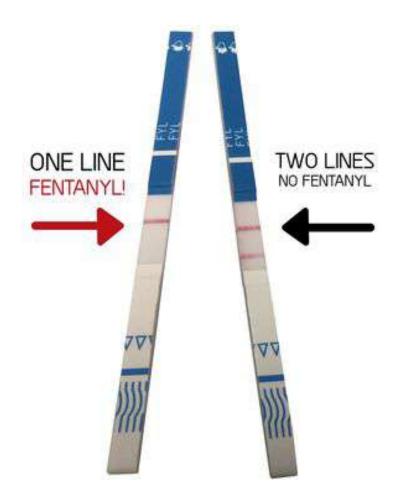
NOT IN THE MANUAL ANEDD SERIES







Step 3: Test Strips



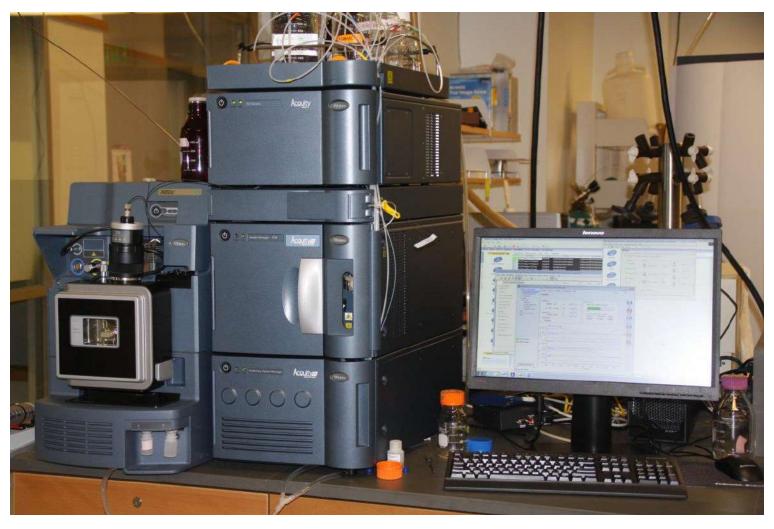


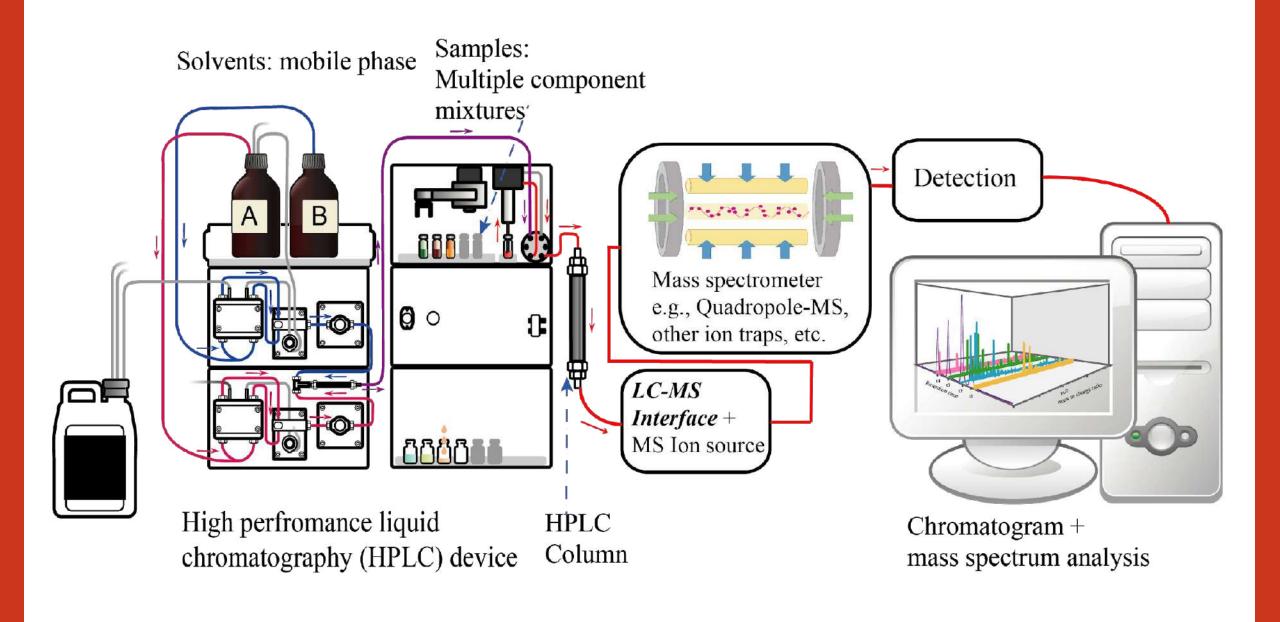
BTNX FENTANYL ANALOGUE LIST

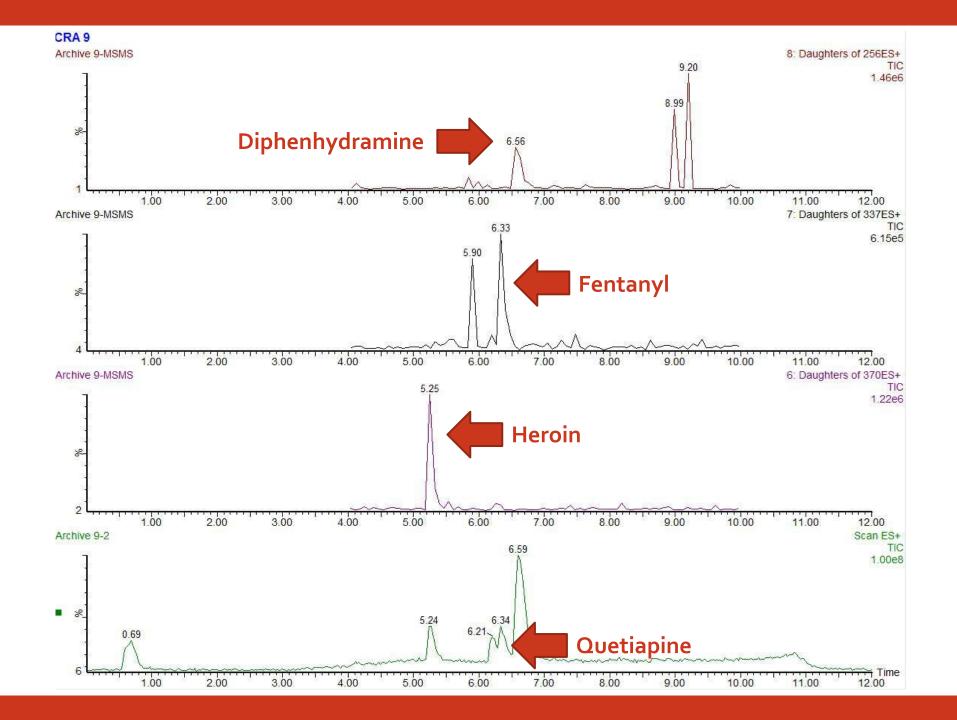


Cross Reactivity List			
CARFENTANIL	BUTYRYL FENTANYL		
P-FLUORO FENTANYL	ACETYL FENTANYL		
FENTANYL	FURANYL FENTANYL		
VALERYL FENTANYL	OCFENTANIL		
3-METHYL FENTANIL	REMIFENTANIL		
SUFENTANIL	NORFENTANYL		

Step 4 (sometimes): LC/MS

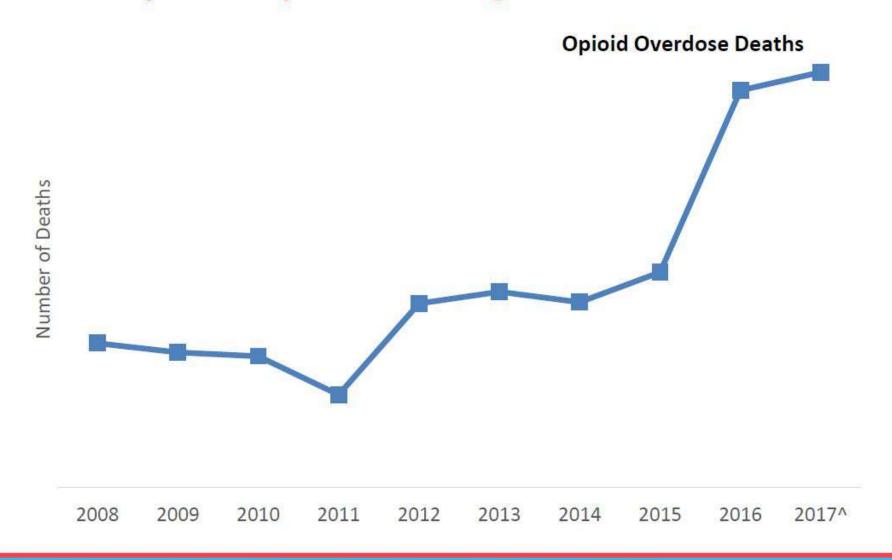




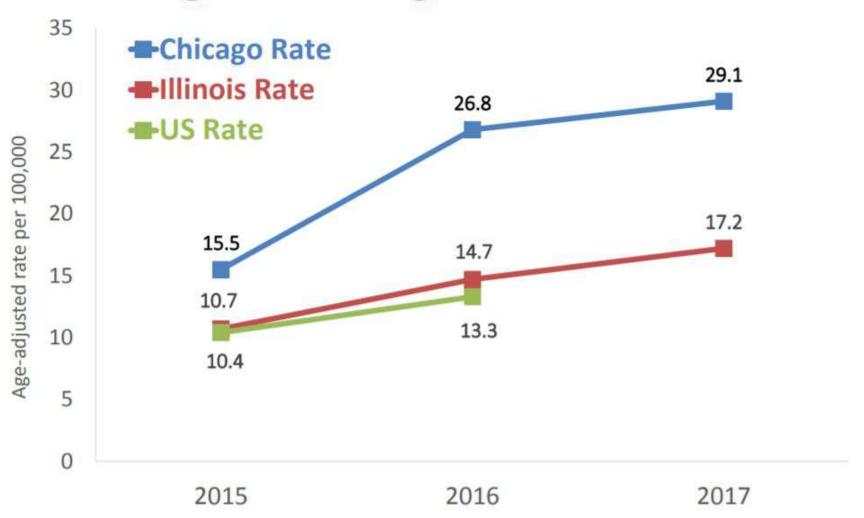




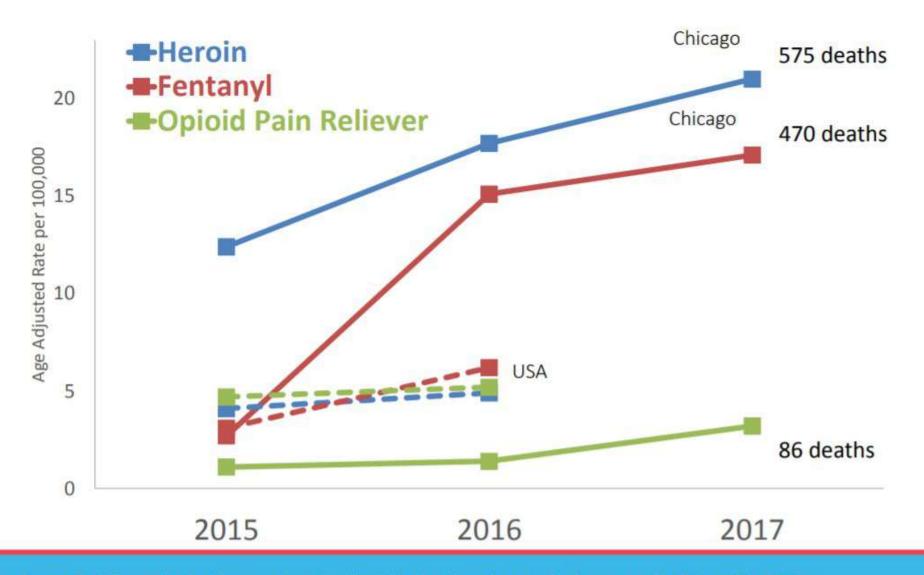
Opioid overdose deaths have increased dramatically in the past ten years in Chicago



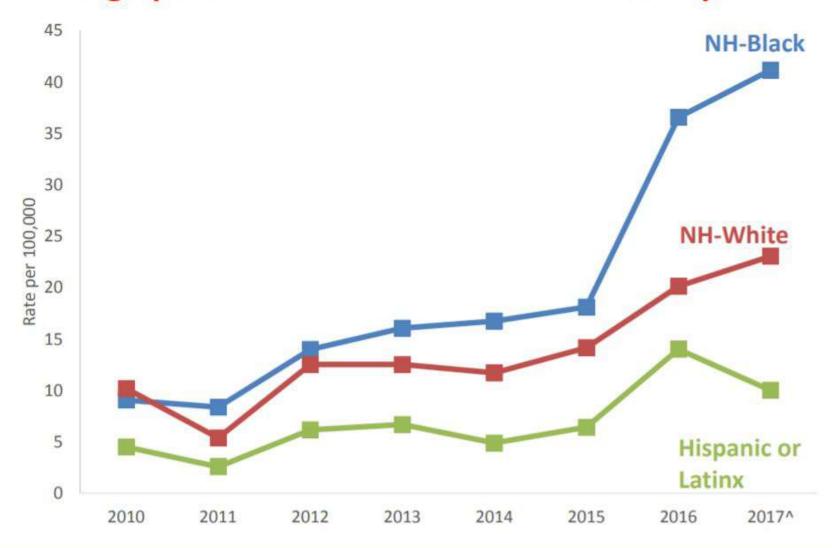
The opioid overdose death rate is over 1.5x higher in Chicago than in Illinois



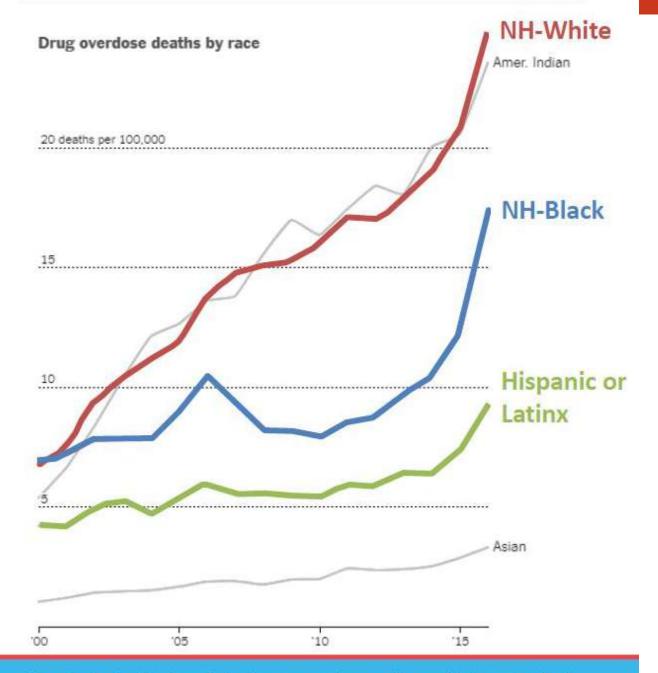
Fentanyl and heroin overdose death rates are over 5x and 6x higher than the opioid pain reliever overdose death rate

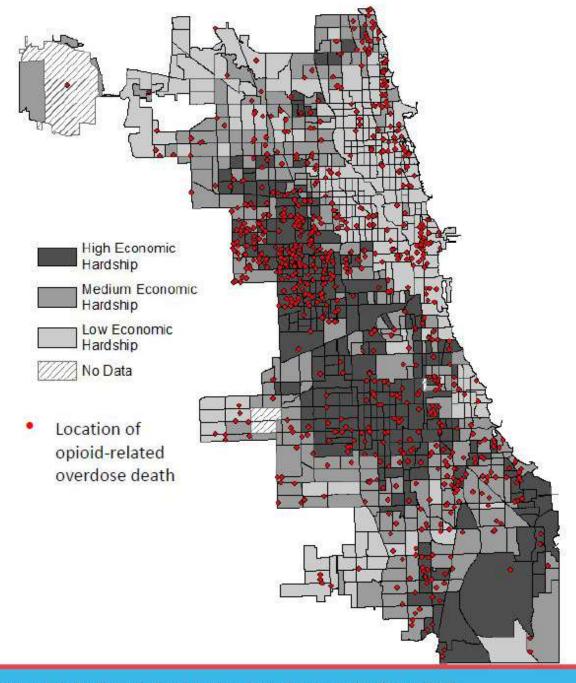


Racial disparities in opioid-related overdose death rates in Chicago persist and have widened in recent years

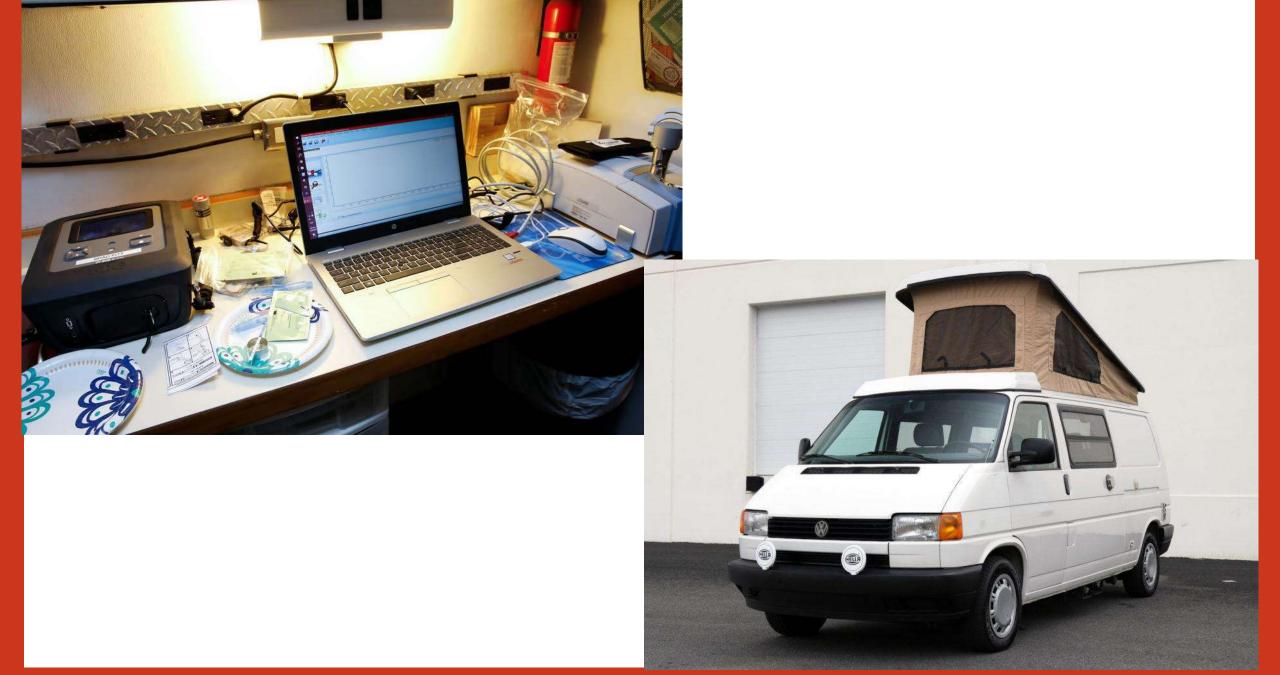


In contrast, in the US, overdose death rates are highest among NH Whites, however drug overdose deaths are rising the fastest among NH Blacks











124 samples

48% heroin 15% heroin + fentanyl

48% fentanyl 1% cocaine

19% amphetamine

4% Novel Synthetic Opioids (AH-7921 & U-47700)



18 samples

100% cocaine

11% amphetamine

7 samples100% cocaine base71% amphetamine



- **1** sample
- 1 fentanyl

- 5 samples
- 1 heroin
- 2 fentanyl

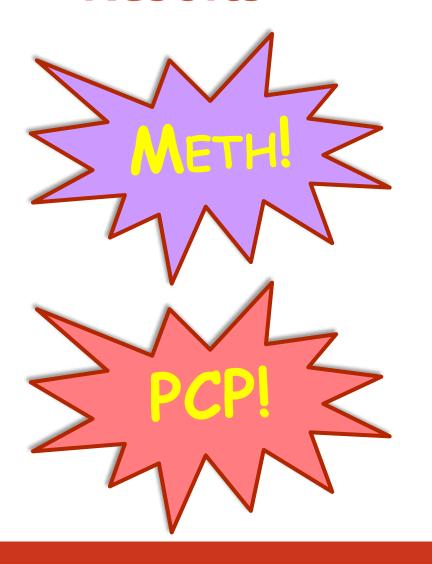
2 cocaine



- 2 samples
- 2 ketamine

- 6 samples
- 1 amphetamine
- 1 fentanyl

- 5 MDMA
- 1 methamphetamine



1 sample

1 methamphetamine

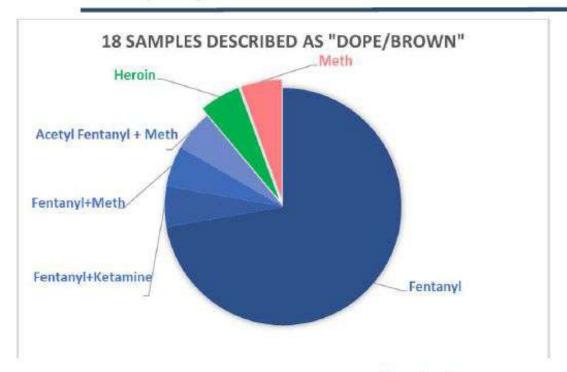
1 sample

1 PCP

What's REALLY in your stuff?

— April: Opioids —

Drug samples checked at AHOPE Harm Reduction Services Program



18 Samples described as 'Dope/Brown'	
RESULTS	
Fentanyl	13
Fentanyl + Ketamine	1
Fentanyl + Meth	1
Acetyl Fentanyl + Meth	1
Heroin	1
Meth	1

-Important-

The machine we use to check drugs (MX908) is NOT able to identify: Benzodiazepines, THC, PCP, cathinones and other (less common) drugs. For a complete list of what we can look for, or if you have questions about your drugs, talk to an AHOPE staff member. No drug checking is 100% accurate, start low and go slow!

You can drop off samples at AHOPE during our normal hours (Monday 7:30AM-10:30AM and 1PM-3PM, Tuesday -Friday, 7:30 AM-12PM and 1PM-3PM) or call the outreach phone (617-534-7828) to find us in an area near you

ACDC is a collaboration between the DOPE Project, Homeless Youth Alliance, Glide Harm Reduction and the DUU to provide people who use drugs with accurate and detailed information using LC/MS to help prevent overdose and other drug-related harms caused by the unregulated and inconsistent drug supply in the US.

ALLIANCE FOR COLLABORATIVE DRUG CHECKING (ACDC)



SAN FRANCISCO

Results for April 2019



For more information contact Eliza Wheeler ejwharmreduction@gmail.com

O

Kristen Marshall marshall@harmreduction.org

DOPE42

Sample collected 4/26/19 at Homeless Youth Alliance

SAMPLE PROFILE

Purchased in the Tenderloin

Sold as black tar heroin

Caused itchy rash, burning in feet, neck, back, swollen lips, had no legs

WHAT WAS IT?

Major component: heroin

Trace components: cocaine, lidocaine and methamphetamine

SO WHAT?

Even though this sample has some trace amounts of stimulants in it, the allergy-like reaction was most likely because of the poorly processed heroin. The majority of the sample was 6-acetylcodeine, an impurity from incomplete processing of heroin which could cause these reactions.

DOPE43

Sample collected 4/19/19 at Homeless Youth Alliance

SAMPLE PROFILE

Purchased in the Tenderloin

Sold as fentanyl

Caused a speedy sensation, anxiety, antsy, twitchy

WHAT WAS IT?

Major component: fentanyl

Minor components: heroin, methamphetamine

Trace components: cocaine

SO WHAT?

This sample was primarily fentanyl, it did contain some meth (but only a trace of cocaine) so the speedy sensation is likely due to the presence of stimulants.

- * Practical street science
 - Reproducibility, generalizability
 - Scalability
 - Validity and reliability
 - * Individual harm reduction interventions (change)
 - * Structural intervention
 - Safer drug supply
 - Reduction in community-level OD incidence
 - * Discursive (Cultural) Change
 - Bodily autononomy / consciousness / pleasure
 - Consumer protection
 - Prohibition's bloody hands (structural violence)

Perfections on the inge)





