RAPID ASSESSMENT OF CONSUMER KNOWLEDGE (RACK) & THE INTEGRATION OF DRUG CHECKING

OD2A Conference

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What is *"RACK"*?

Rapid Assessment of Consumer *Knowledge* (RACK) – is a mixed methods project geared toward understanding trends in overdose risk in Massachusetts.

Data Collection Elements:



RACK is funded by a grant from the Centers for **Disease Control and Prevention to the** Massachusetts Department of Public Health, **Bureau of Substance Addiction Services**

Ethnographic Observations

Key Informant Interviews

Surveys with people who use drugs

Interviews with people who use drugs Drug checking (sample collection)

Observational Notes

Reflections

15 RACKS from 2017 to today!

Methods

Rapid Assessment, Community-Engaged, Mixed Methods

A Modern Epi-Aid

- Rapid assessment and response framework
- Environmental scan, Community mapping, Policy mapping, Partner meetings: Tailor plans for how, where, when
- **Survey**: Go to where overdose burden is greatest. Ask demographics, drug use behaviors, naloxone/Narcan, overdose history, Good Samaritan Law, medications for addiction treatment, diversion and drug access.
- Qualitative one-on-one interviews: Questions that dove deeper into survey topics. Interview recorded or transcribed.
- Drug Checking: Collection and analysis of remnant drug samples from survey participants to better understand the contents of the local drug supply.
- **Compensation**: \$20 for survey participation +\$20 for interview participation, \$5 for up to 3 referrals, and \$5 for each of up to 3 remnant drug samples.



Traci



Jackie







Tom



Cole



Derek



Wilson



Stephanie

Team RACK: For the People, Body and Soul Brandeis University



Joe



Sharon



Sabrina



Becca

Community Partners and Recruitment Sites

Boston Public Boston Public Health Commission

AIDS PROJECT

STER

- Syringe exchanges (e.g., Healthy Streets, Tapestry, AHOPE, Life Connections, LCHC, APW)
- Community programs (e.g., Boston Medical Center, PAACA, Seven Hills, Universal Missionary Church Brockton, HCAT)
- Police department community outreach programs (e.g., NBPD, Chicopee PD)
- Homeless shelters and soup kitchens (Rosie's Place,
 Pine Street Inn, Lowell Transitional Living Center, The
 Mustard Seed, St. John's Soup Kitchen Worcester)









https://heller.brandeis.edu/opioidpolicy/community-resources/rack/

RACK

Rapid Assessment of Consumer Knowledge (RACK) is a brief, mixed methods research approach to gain insight into local challenges and responses to the opioid crisis as shared by the people who use drugs in the community. RACK reaches beyond clinical and administrative data to learn about fentanyl and other drug use, treatment experiences and access, and the lived effects of recent policies, like prescribing limits and the Good Samaritan Law.

Brandeis UNIVERSITY



Why focus on overdose trends among Black and African American communities?

The goal of the Black/African American RACK was to understand what is driving the increase in opioid involved overdose deaths among people in Massachusetts who identify as Black or African American. More specifically, to (1) describe the exposure to, use of, and protective behaviors associated with fentanyl among people who use drugs (PWUD) and (2) assess the impact of policy responses such as naloxone access, and opioid prescribing restrictions.

What did this RACK find?

• A delayed exposure of fentanyl in communities of Black and African American residents, coupled with the persistence of heroin within these communities,



70.1% of participants reported that pain pills are difficult to get from hospitals and doctors in their area. However, 30.5% reported pain pills are easier to get now than one year ago. Counterfeit pill use

Community presentations of results (anywhere from 1 to 12)

One-pager synthesis of findings, implications

Policy briefings

RACK: Trends in Hispanic and Latinx Communities

What is RACK?

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Why focus on overdose trends among the Hispanic/Latinx community?

- The rate of opioid overdose deaths for Hispanics has increased dramatically in MA compared with national rates.
- Recent reductions in opioid overdose deaths for white, non-Hispanics have not been observed for Hispanics.
- From analysis of past RACKs, we learned that Hispanic participants tended to use cocaine more, were less engaged in harm reduction services, and were less knowledgeable about overdose prevention tools.
- This RACK sought to understand factors contributing to these differences, cultural trends within the opioid crisis, and possible intervention points.

How did the RACK Hispanic/Latinx work?

A sampling plan was created proportional to places with the highest burden of Hispanic/Latinx overdose deaths in Massachusetts. The RACK team conducted extensive community



SOURCE: Kaiser Family Foundation's State Health Facts.

Drug	Reported Use n (%)	Route of Administration n (%)
Heroin	34 (65)	Snort: 9 (26)
		Inject: 27 (79)
		Smaller 2 (6)

Why add drug checking

- Drug supply is a major determinant of drug related death
- Knowing a drug's content informs our responses
- Only known after a death, hospitalization, arrest, and often way too late to be informative, *rarely shared publicly*
- Field-based tools exist and we have created a community drug checking program in Massachusetts (MADDS)
- Protecting consumer safety is a proven prevention approach
- Talking with people who use drugs about what they use and how it affects them can give insights on new risks and safety approaches

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Bruker Alpha FTIR

Fentanyl, Benzo, Xylazine Test Strips GCMS/LC-QToF by off-site lab Drugsdata.org

Medical Toxicology Consultation



CISIC The Center for Forensic Science Research & Education

RACK Data Collection Process



Integrating drug checking

Started in New Bedford RACK in 2019

Drug packaging/detritus found in public areas

Donated used packaging from RACK respondents (\$5 incentive)

Evidence marked for destruction from Police Dept

- Nonfatal/fatal overdose
- Attempted suicide
- Found property
- Confiscated property
- Controlled buy

Drug checking within RACK



RACK	What we learned from adding drug checking
New Bedford RACK	Feasibility of process; sampling through survey is possible, informative; self- reported drug use is more accurate than oral toxicological testing; drug checking sheds light on fentanyl circulating
African American-focused RACK	Counterfeit pill exposures are high; contamination of cocaine and crack with fentanyl are happening, unexpected, and harmful
Greenfield RACK	Heroin persists in the drug supply in some places; inconsistency of the drug supply creates overdose risk
Mass & Cass RACK 1.0	Unhoused and homeless individuals are at extremely high risk of supply- related harms (e.g., victimization, supplier arrest, abscess); disruptions to housing introduce drug supply risks: inconsistencies that increase overdose risk, reduced access to supplies reduce hygienic practices
Mass & Cass RACK 2.0	Xylazine presence established; use and navigating supply (wounds, sedation)

Fug market reorganization, changes in drug distribution pathways led to intensified market competition, contamination of powders/pills, more frequent distribution errors, and this continues to intensify in different municipalities. (ARACK findings)







	Name: Ian I	Residue	Pub. Date:	May
13.5	Other Names:		Src Location:	New
9/9/7	UniqueCode: 0 AC20	021B645	Submitter	
Sall	Marquis: 🚺 Unkr	iown	Loc:	
	Mecke: 0 Unkr	iown	Color:	
	Mandelin: 0 Unkr	iown	Size:	1 mg
	GC/MS: 0		Data Source:	Drug (Ecs
	 <u>Fentanyl</u>: 46.67 Cocaine: 26.67 		Tested by:	DDL
21.8645	<u>4-Fluorofentanyl</u> : 1: <u>Phenethyl 4-ANPP</u> : <u>4-ANPP</u> : 1.00 ● <u>THC</u> : 1.00 ●		Lab's ID:	2104
	Sold as: Not Specifie Expected to be: Not			

AC202

Description
Small amount of tan powder in baggie.
Sample associated with adverse health event.

Type of Substance	Reported Street Price (Average)
Buprenorphine/ Suboxone	\$7.80/strip
Heroin	\$184.94/gram
Fentanyl	\$160.80/gram
Rx opioids	\$18.73/per pill

Tips & Best Practices: DRUG SAMPLE COLLECTION

- Collect samples for drug checking <u>after</u> completion of the consent, survey/interview process, <u>after</u> already building rapport with participants.
 - This helps to mitigate "Paranoia Control" of donating a sample.
- Ask where the participant may be "most comfortable" in providing their sample(s) to you.
 - Harm reduction space, business, hospital, semi-public/public space, etc.
 - This respects participant privacy.
- Interviewers should be context-aware, meaning knowing who and what is going on around you while collecting samples.
 - Safety first, for all.
- Best to ask for donation to be submitted right there (timing-wise) or soon (15 mins) thereafter; the more
 immediate the better.
 - Improves validity and quality of the sample. Reduce contamination of sample.

Tips & Best Practices: PROCESS & PROCEDURE

- Have clear process and procedure to ensure quality control (numbering, entry, collection, storage)
- Take photos, collect contextual information in systematic way.
 - Tools like <u>StreetCheck</u> can be helpful here! Research data collection flow options.
- Have safety protocol/monitoring in place, supervisor/coordinator in field.
- Storage, transport and disposal practices
 - If sending to off-site lab, ensure protocol in place (e.g. mail as soon as possible after collection).
 - Plan with local drug checking programs for receipt or storage and testing that is respectful of their flow and participants
- Technology snafus happen! Be prepared
 - Have a paper-based data collection back up plan or have an iPad/tablet with cellular
- Decide if drug checking results will be reported back to participants.

Accountability. Transparency. Replicability.

COLLECTION TOOLS - StreetCheck



COLLECTION TOOLS - StreetCheck

✓ Back Substance Form		
SC_2023	SC_2023	SC_2023
Substance form at time of submission	Color at submission	Materials / sample packaging provided
Powder (chunky)	Black	No Packaging (just drug)
Powder (fine)	Brown	Baggie
Pill (part)	Tan	Paper fold or wax fold
Pill (whole)	Yellow	Cotton
Rock	White	Cooker
Residue	Off-White	Pipe (Hammer Pipe, Bowl Pipe, Straight Pipe)
Crystal / Shards	Pink	Foil
Other Specify	Clear	Straw
Skip to End Next	Skip to End Next	Skip to End Next

NOTIFYING THE PARTICIPANT

Results Notification \equiv	Res	ults Notification	=	Re	esults Notification	=	
Share Result by QR Code	Share Res	sult by Text Mess	sage	Sha	re Result by Em	ail	
https://ma.streetcheck.org/r/0F4E0F64	press Share button	rticipant's cell phone to transmit the samp result retrieval. Send			e participant's email on to transmit the sar result retrieval. Send		
OF4E0F64		Done			Done		
Please instruct the participant to either take a snapshot of the QR code displayed above, note the displayed sample link or sample identifier for future result retrieval.							
 I acknowledge and understand that: Drug checking does not provide a guarantee of safety. Drug checking does not provide evidence of purity or dose. People respond differently to drugs and drug checking does not provide personalized 							5
Information about how I or anyone else will	QR Code	SMS SMS	Email	QR Code	SMS	Email	DRU

Participant-facing

SAMPLE VIEWER





Test Results	
Fentanyl Test Strip Res	ults (FTS)
FTS Dilution	Resul
Tested at 1ML	Not Tested
Tested at 5ML	Negative
Tested at 30ML	Not Tested

Sample Details

Suspected Substance(s)	Cocaine (Powder)
Sold/Given As	Cocaine (Powder)
Substance Form	Powder (fine)
Color	White
Materials Provided	Straw

Experience Details



Tips & Best Practices: SAMPLE MANAGEMENT & INCENTIVES

- Pre-prepare sample bags you will be using for collection from participants
 - Use scoops to place in small bags (glassine) in mylar bag with envelopes/larger bag
- Identification—<u>never put identifying information on the bag</u> creating sample ID numbers is helpful for sample tracking and data management.
- Provide a 'thank you gift' for samples provided
 - \$5 gift cards or cash per sample
 - non-monetary gifts (e.g., first aid kits, handwarmers, manicure kits, candy, backpacks)
- Notify participants about nearby drug checking program and/or harm reduction resources.

MATERIALS FOR COLLECTION

- Sample bag stickered with QR code + ID
- PPE: gloves, mask
- 5mg microscoop





BEST, GOOD, NOT SO GOOD SAMPLES





Best Samples:

 Powder, crystal, rock in sufficient quantities (~5-15 mg)

Good Samples:

Cookers with significant residue





~5 mg of sample required fo FTIR analysis

Bad Samples:

- Cotton and pipes*
- Samples of insufficient quantity (<5 mg)*
- Note: Static will inhibit sample removal from bag

*Initial results typically poor, but laboratory testing not affected

TRAINING STAFF ON DRUG SAMPLE COLLECTION

Training!

- Training happens both in the "classroom" and in the "field"
- Practice and role play consenting and explaining the purpose of sample collection and drug checking.
- Practice and role play sample collection, data entry, payment/thank you gifts transactions.
- Anticipate and practice handling errors that may come up

Take-home points

- Surveys and interviews with people who use drugs are critical to understanding the changing landscape of risk and response to the opioid crisis.
- Adding drug checking to ongoing data collection is feasible and informative.
 - Unique use experiences shed light on the drug supply and overdose risk
 - Enable better monitoring of the supply
 - Help in raising awareness
 - Refine local response and intervention



THANK YOU

Questions?

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https://heller.brandeis.edu/opioid-policy/ www.streetcheck.org