

National HIV Behavioral Surveillance (NHBS)

Findings from the 2024 Cycle Among Persons who Inject Drugs (PWID)



**PUBLIC HEALTH
INSTITUTE**
AT DENVER HEALTH™

Commitment to Equity in Data

The Public Health Institute at Denver Health aspires to present data humbly, recognizing numbers never tell the whole story. We strive to work with individuals and communities to learn and share their stories to improve collective understanding. Knowing that people across life circumstances have inequitable opportunities to achieve optimal health, we commit to pair numbers and stories to inform policy and systems change to improve health for all.

Learn more about PHIDH's Health Equity Data Commitment and Principles at <https://www.phidenverhealth.org/about-us/health-racial-equity/data-commitment-and-principles>

NHBS Background

- Developed and funded by the Centers for Disease Control and Prevention (CDC) to monitor selected behaviors and prevention services among populations disproportionately affected by HIV
 - Colorado Department of Public Health and Environment (CDPHE) is the funded agency and contracts with the Public Health Institute at Denver Health (PHIDH) to facilitate data collection
- NHBS collects data on:
 - Behavioral risk factors for HIV
 - HIV testing behaviors
 - Receipt of prevention services
 - Use of prevention strategies



Ending The HIV Epidemic

GOAL:

75%
reduction in new
HIV infections
by 2025
and at least
90%
reduction
by 2030.



Diagnose all people with HIV as early as possible.

Treat people with HIV rapidly and effectively to reach sustained viral suppression.



Prevent new HIV transmissions by using proven interventions, including pre-exposure prophylaxis (PrEP) and syringe services programs (SSPs).

Respond quickly to potential HIV outbreaks to get needed prevention and treatment services to people who need them.



Data to Understand
Diagnoses

Data to Understand
Treatment

Data to Understand
Prevention

Data to Understand
Response

National HIV
Surveillance
System

National HIV
Surveillance
System

National HIV
Behavioral
Surveillance

National HIV
Surveillance
System

Medical
Monitoring
Project

Medical
Monitoring
Project

PrEP Prescription
Data (IQVIA)

Youth Risk Behavior
Surveillance System

The time is now.

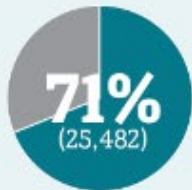
<https://www.hiv.gov/federal-response/ending-the-hiv-epidemic/overview/>



Overall Goal: Decrease the number of new HIV diagnoses to 9,588 by 2025 and 3,000 by 2030.



There were **36,136 new HIV diagnoses*** in the US and dependent areas in 2021. Of those:



were among gay, bisexual, and other men who reported male-to-male sexual contact[†]



were among people who reported heterosexual contact



were among people who inject drugs

*Among people aged 13 and older.

[†]Includes infections attributed to male-to-male sexual contact and injection drug use (men who reported both risk factors).

<https://www.cdc.gov/hiv/statistics/overview/in-us/diagnoses.html>



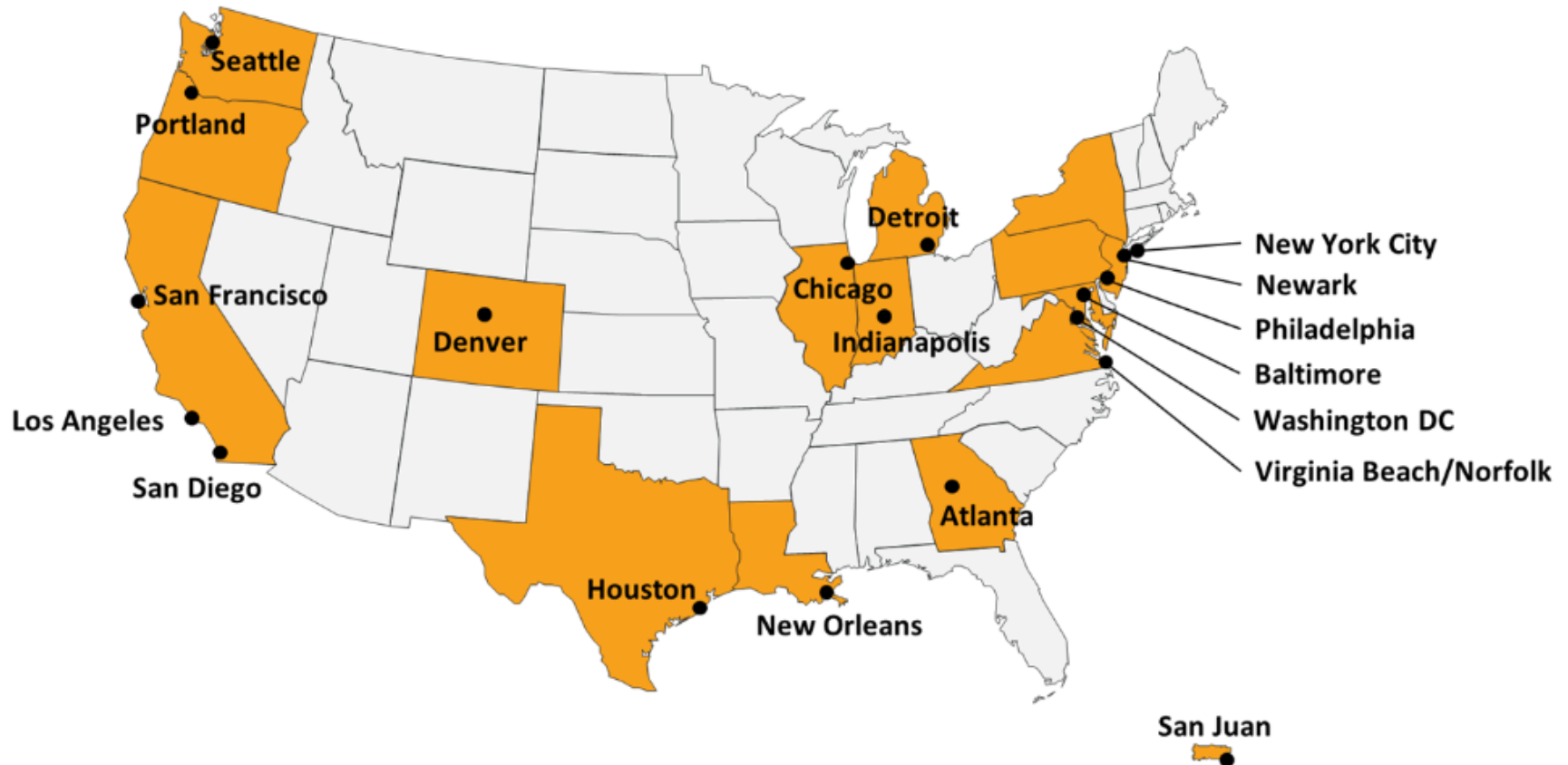
NHBS Objectives

NHBS is the only multi-site system that provides estimates of key HIV prevention measures.

NHBS objectives:

- Assess the prevalence of and trends in HIV infection
- Assess the prevalence of and trends in behavioral and other risk factors that increase the risk of HIV acquisition and transmission, including:
 - Sexual behaviors
 - Drug-use behaviors
 - Social determinants of health
- Describe utilization of and trends in HIV testing, linkage to care, and antiretroviral therapy
- Assess the exposure to and use of prevention services, including PrEP
- Identify gaps in prevention services and missed opportunities for prevention interventions, including PrEP and syringe service programs

Current NHBS Sites



19 Metropolitan Statistical Areas (MSAs): selected by high prevalence of HIV

NHBS Core Populations and Rounds



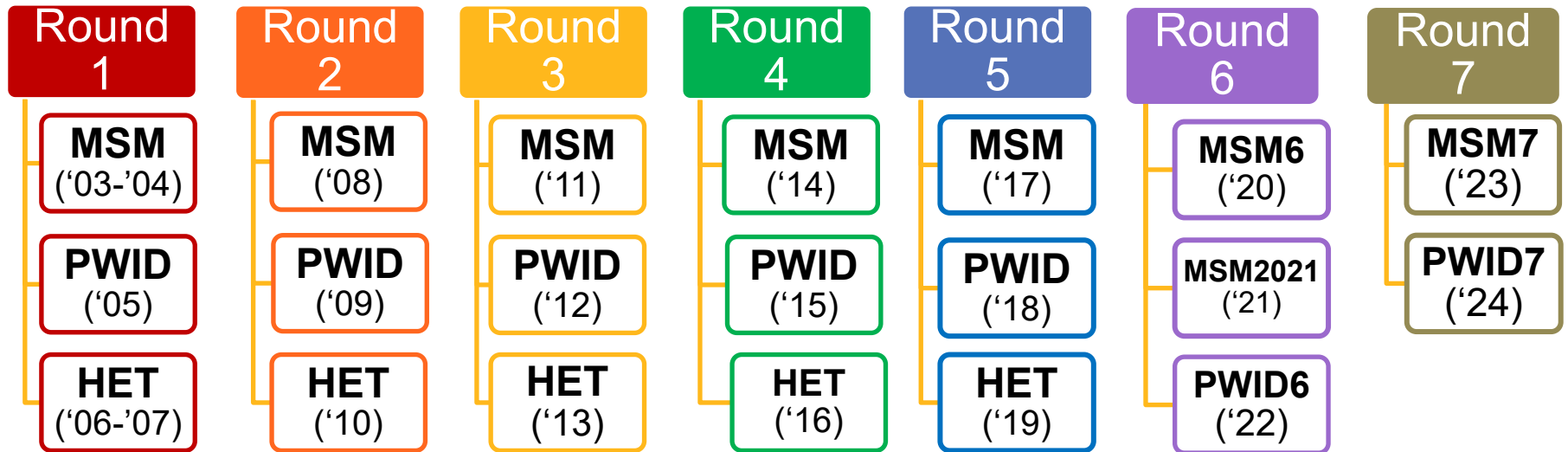
Men who have sex with men (NHBS-MSM)



Persons who inject drugs (NHBS-PWID)



Heterosexually active persons at increased risk for HIV infection (NHBS-HET)

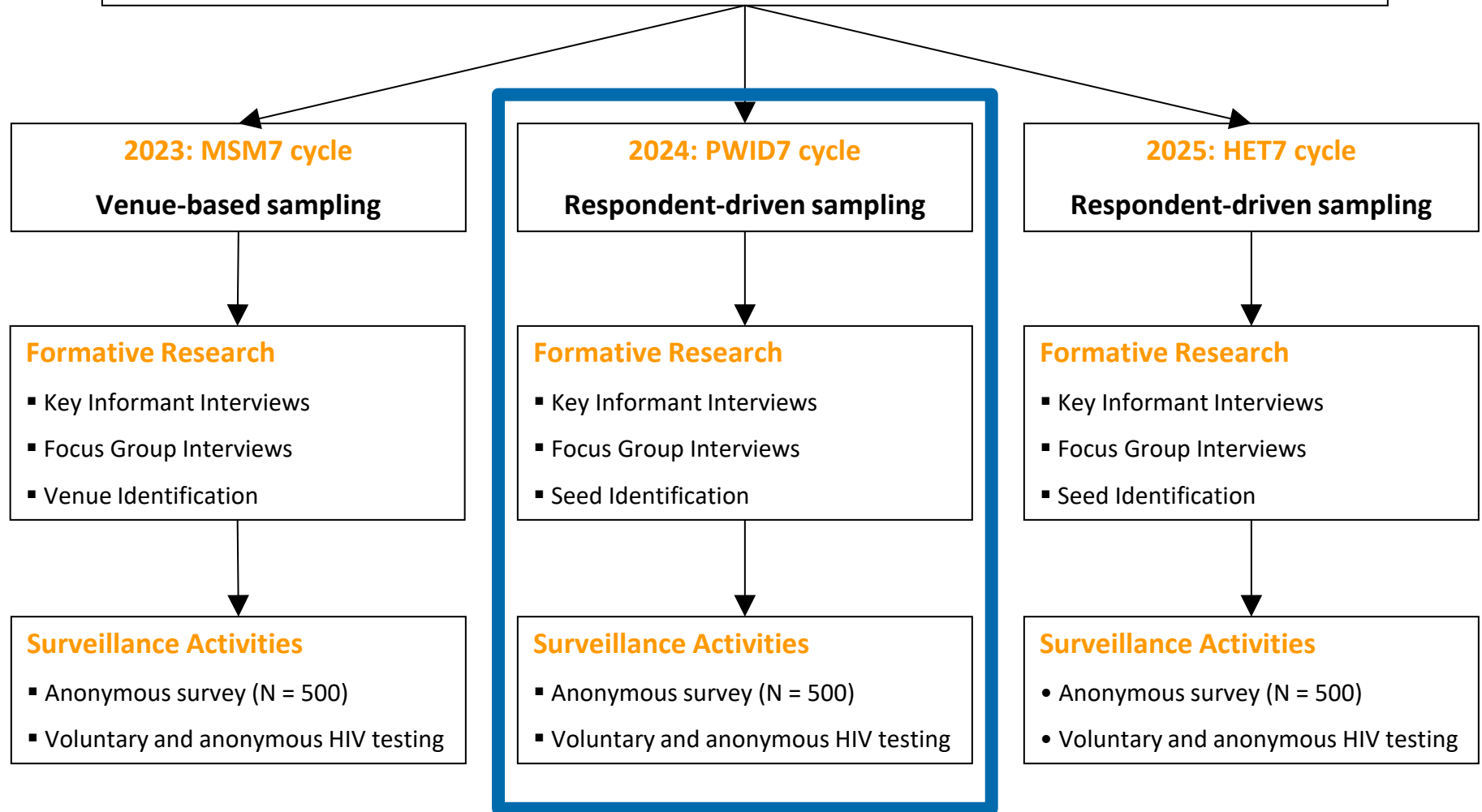


Inclusion in NHBS



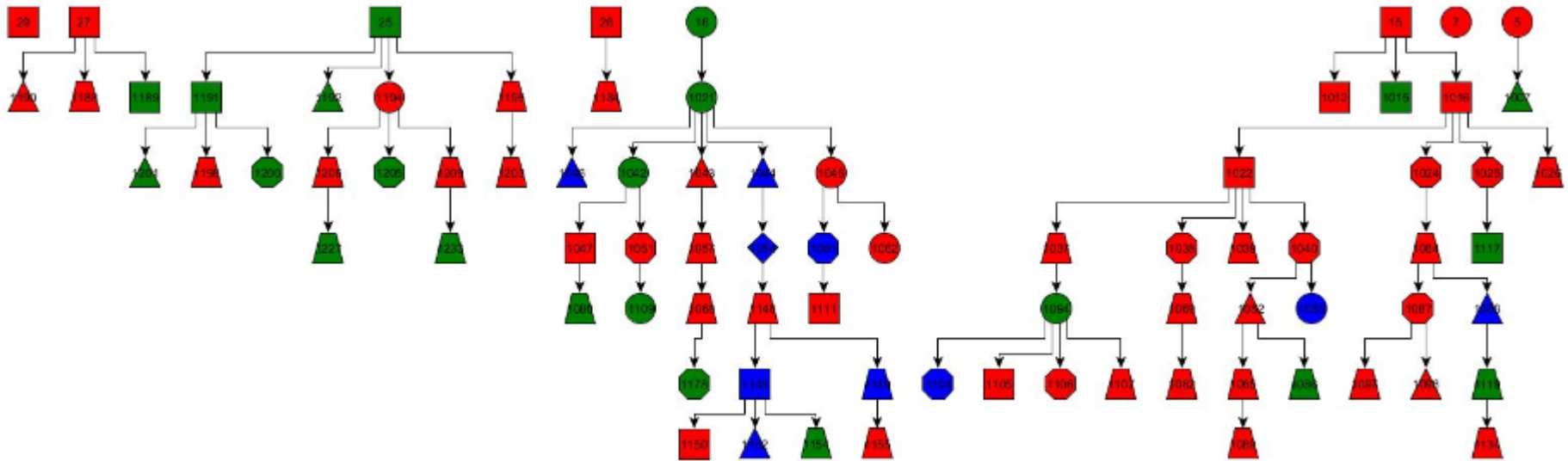
- General eligibility criteria
 - ≥ 18 years of age
 - Resident of the Denver metropolitan statistical area (MSA)
 - Not previously surveyed in current cycle
- MSM cycles: ever had oral or anal sex with another man, born male and self-identify as male or non-binary
 - Inclusion: oral or anal sex in past 12 months
- PWID cycles: Injected drugs without a prescription in the past 12 months
- HET cycles: had vaginal or anal sex with an opposite sex partner in past 12 months, between the ages of 18 and 60, male or female
 - Inclusion: low income as defined by having a household income at or below 150% of the HHS poverty guidelines adjusted for geographic differences

National HIV Behavioral Surveillance System



Respondent Driven Sampling (RDS)

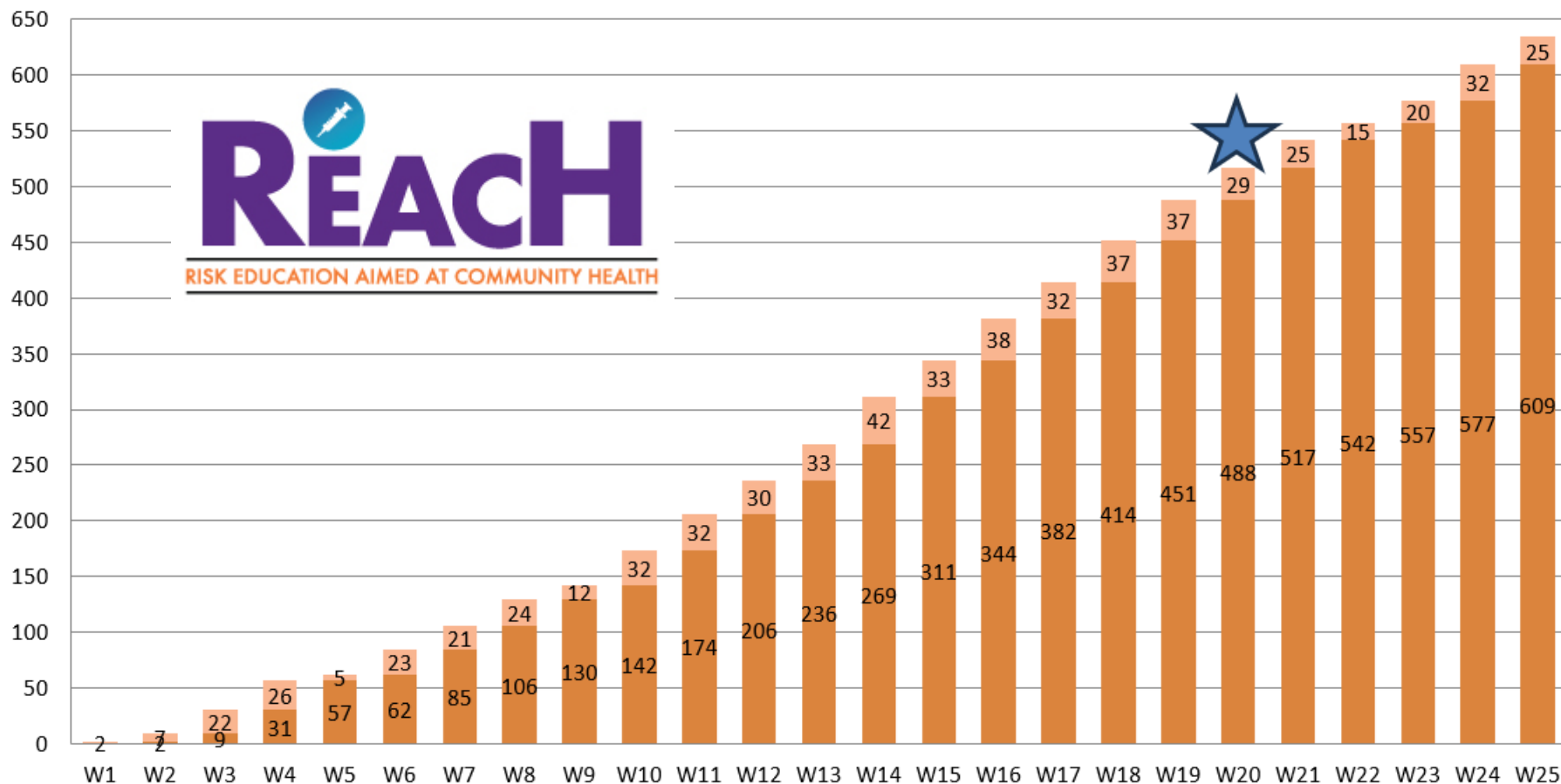
- RDS, a peer-referral sampling methodology, is an efficient method to recruit hard-to-reach populations
- Initial “seed” participants are identified and recruited for participation; seeds are then asked to recruit persons from their networks using referral coupons



NHBS-PWID2024 Cumulative number of completed interviews that meet CDC's PWID definition

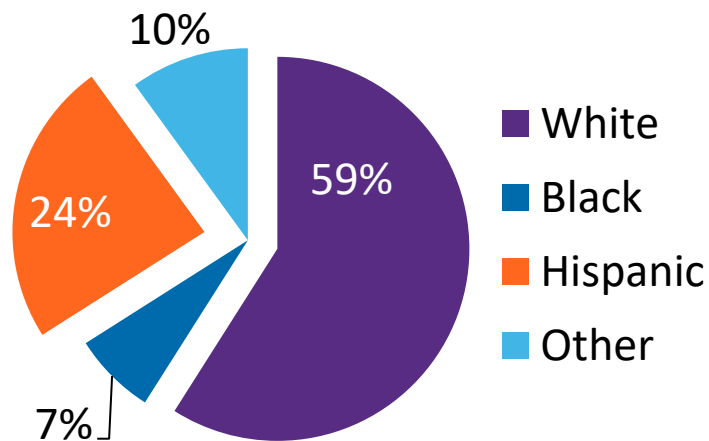
Data collection: June 4, 2024 - November 22, 2024

(n=634, seeds=4, referrals=630)



PWID2024 Sample Characteristics

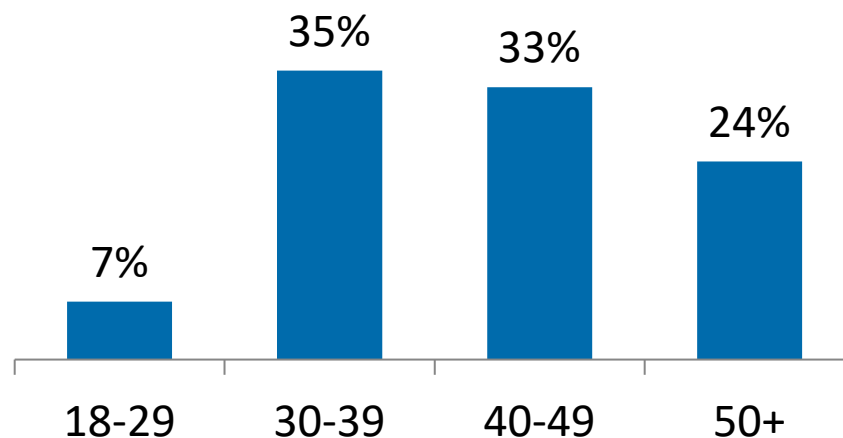
Race/Ethnicity



Male Female Transgender



Age



2% living with HIV

80% ever tested for HCV

41% ever diagnosed with HCV

Social Determinants of Health

18%



Less than high school
education

42%



Income
≤\$5000/year

56%



Currently
unemployed

63%



Currently experiencing
homelessness

48%



Incarcerated past
12 months

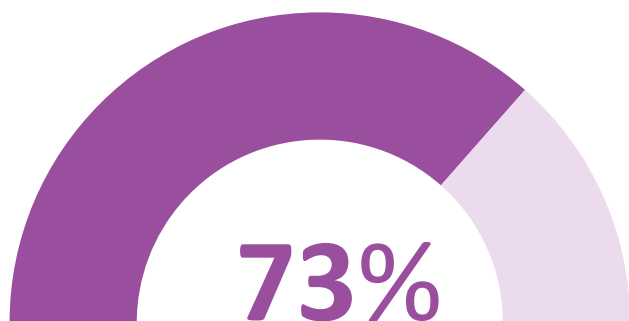
9%



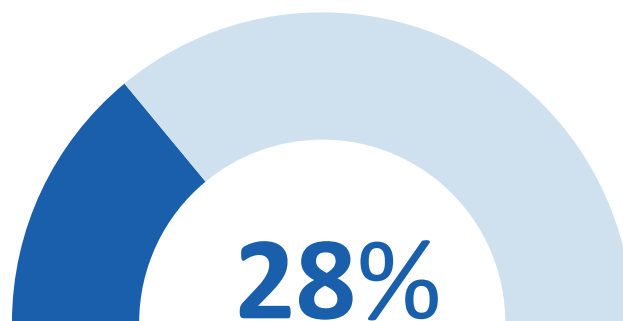
No current health
insurance



Only 28% of PWID were offered HIV test at last provider visit



Visited a health care provider
in the past 12 months

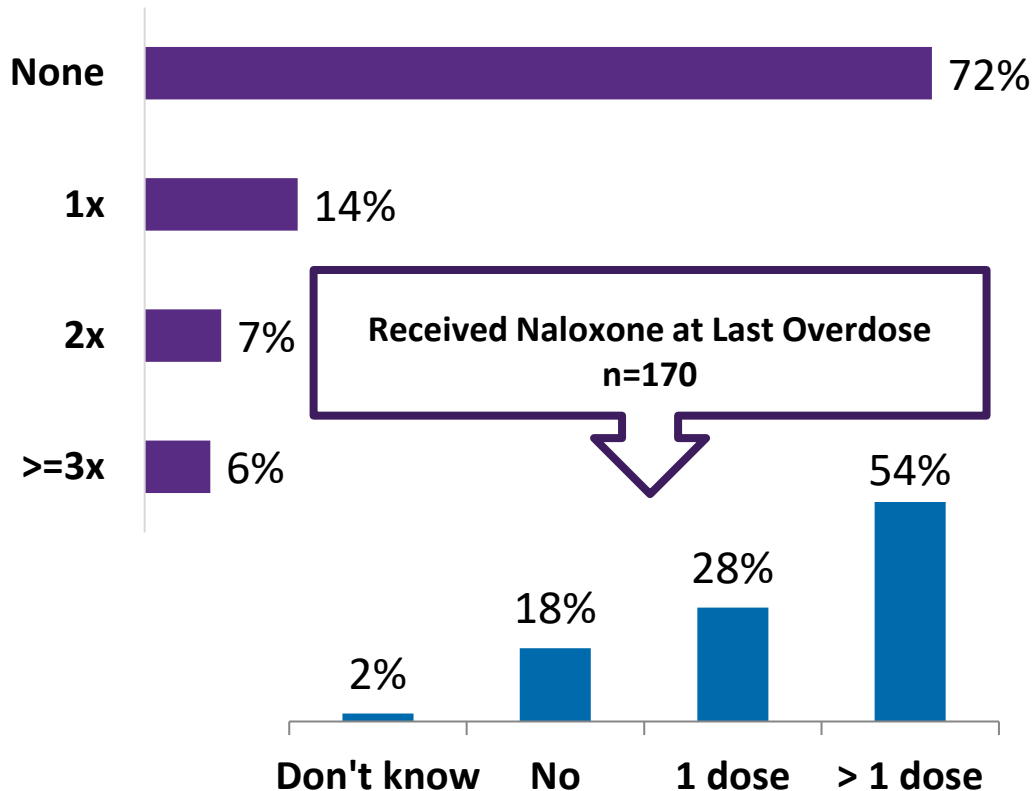


Offered HIV test at health care
provider visit in the past 12 months

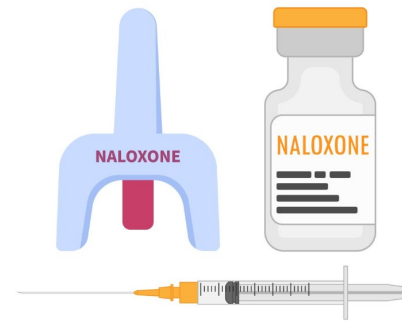


Overdose and Overamping

Number of Reported Overdoses Past 12 Months

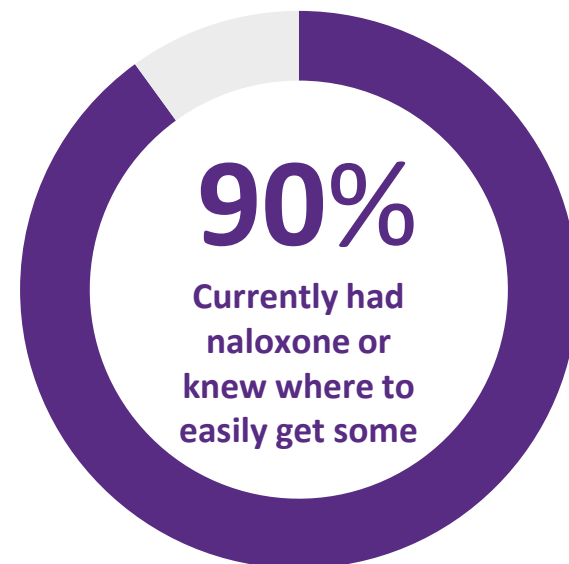
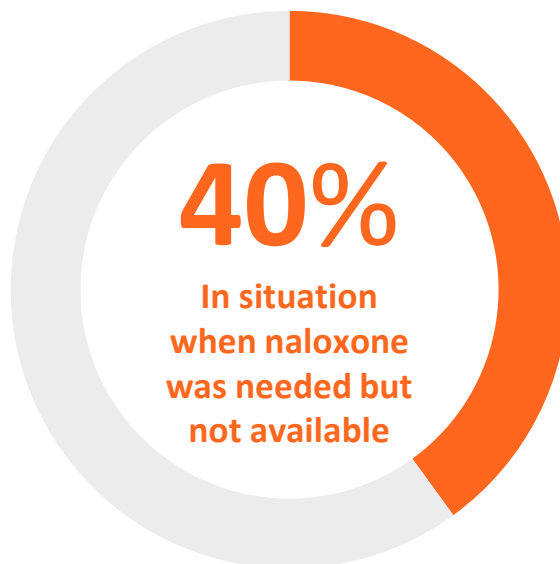


39% reported overamping at least once in past 12 months



41% received some medical care for overdose in emergency room or hospital in past 12 months

Overdose and Naloxone



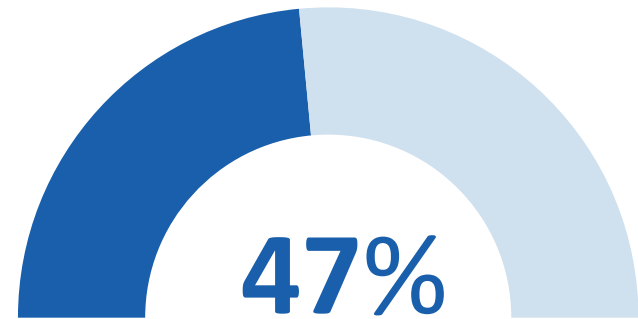
73% of last witnessed
overdose needed >1 dose of
naloxone to reverse overdose



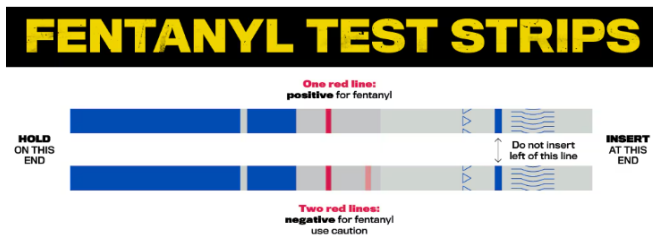
73% of participants received fentanyl or xylazine test strips from a syringe access program



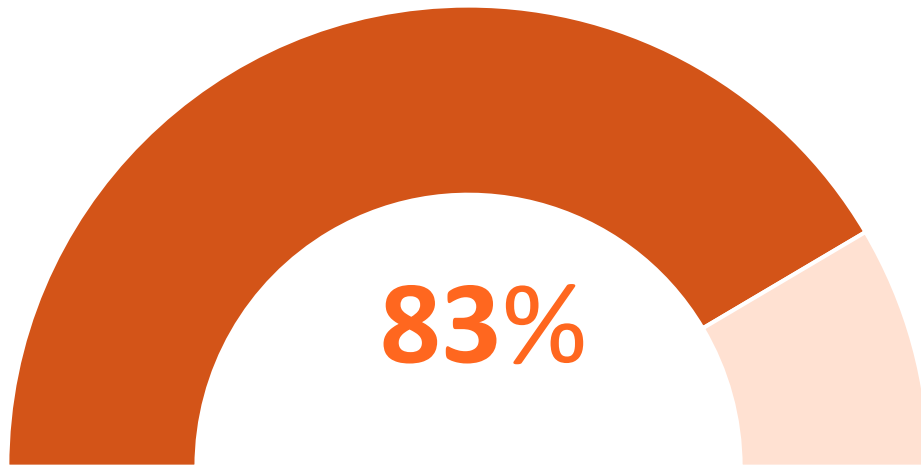
Used fentanyl test strips most of the time or always



Used xylazine test strips at least once in the past 12 months



Increased access to safer smoking kits



Received safer smoking supplies such as pipes or foil from syringe access program in the past 12 months

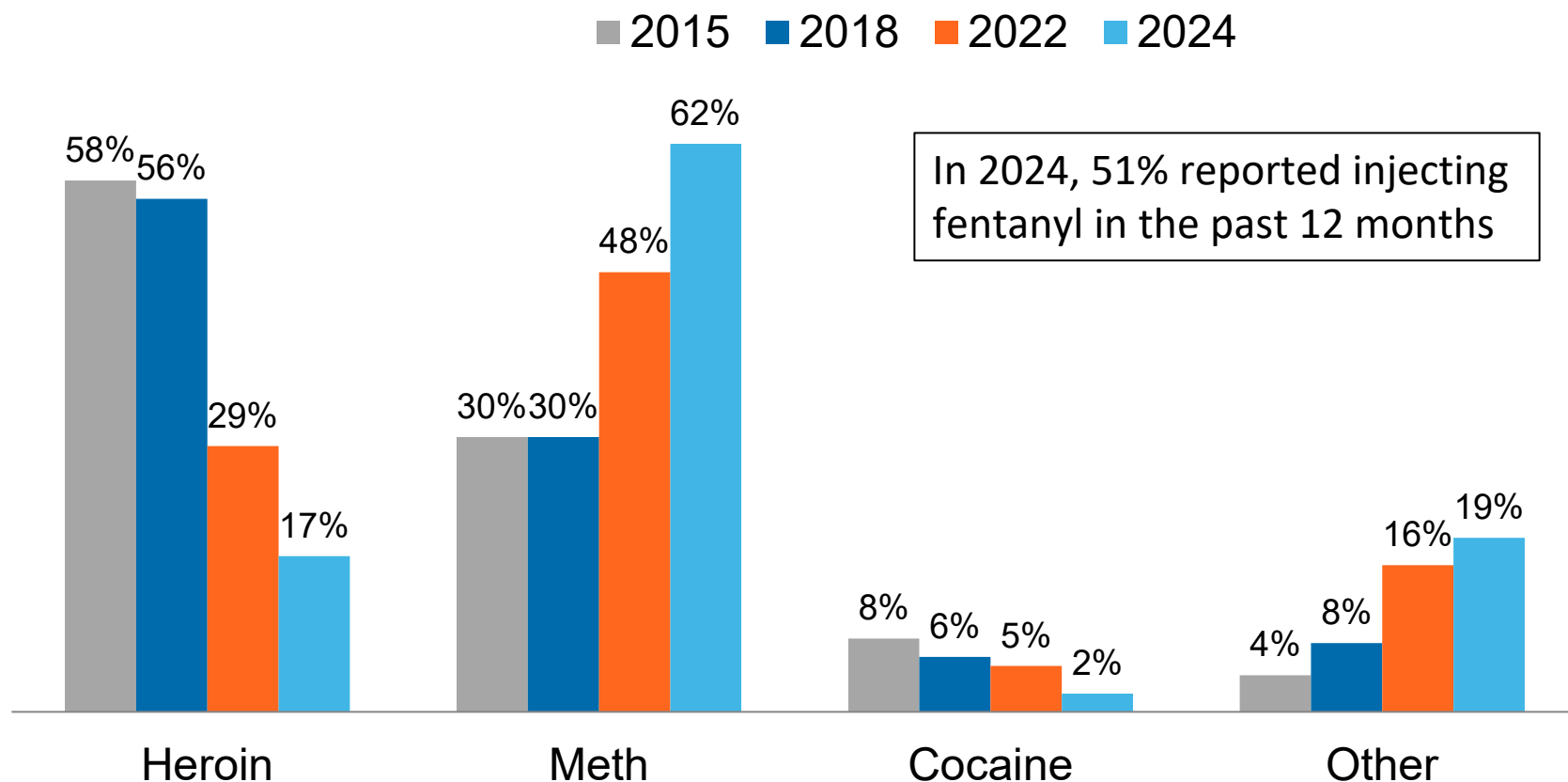


Syringe Access Program Visited in Past 12 Months

SAP (check all that apply)	2018 n =532	2022 N=272	2024 N=627
Access Point/CHN	44 (8%)	49 (18%)	196 (31%)
Harm Reduction Action Center	393 (74%)	182 (67%)	410 (65%)
Mobile/Lifepoint	NA	13 (5%)	151 (24%)
Points West/Jeffco	19 (4%)	1 (<1%)	37 (6%)
The Works/Boulder County	10 (2%)	3 (1%)	12 (2%)
Adams County	NA	NA	10 (2%)
Arapahoe County	NA	NA	11 (2%)
None	108 (20%)	51 (19%)	90 (14%)

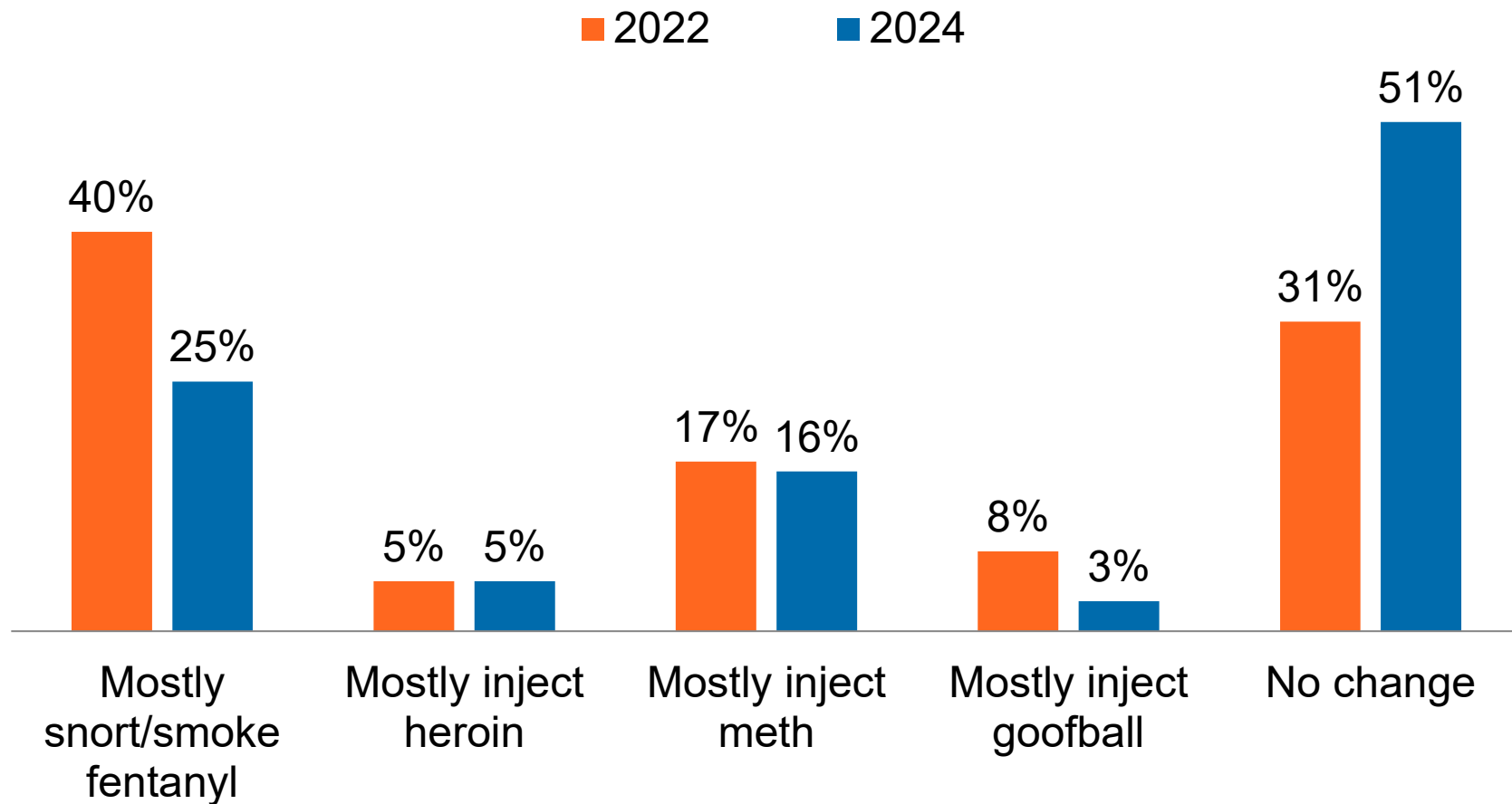
NOTE: Percentages do not sum to 100% as more than one can apply

Changes in Most Frequently Injected Drug Over Time



NOTE: In 2018, other mostly reported as goofballs. In 2022, 25% of other reported as fentanyl. In 2024, 40% of other reported as fentanyl.

Changes in Drug Use Patterns In the Past 12 Months Due to Fentanyl, 2022 vs 2024

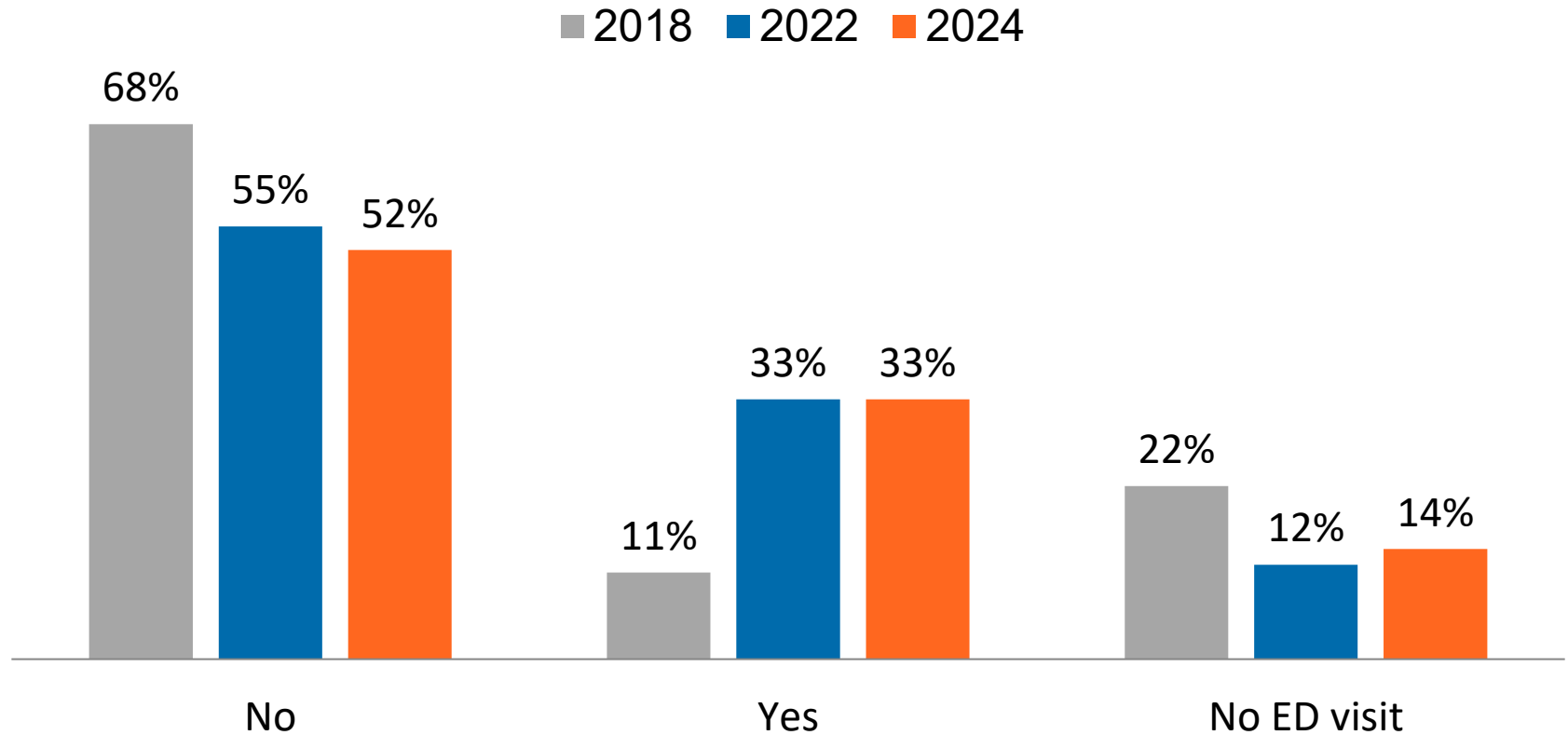


In what form is fentanyl available in the Denver metro area?

Form of fentanyl (check all that apply)	2018* n =296	2022* N=229	2024 N=619
Mixed with heroin, sold as mixed	77 (26%)	99 (43%)	197 (31%)
Mixed with heroin, sold as heroin	243 (82%)	74 (32%)	170 (27%)
Sold as fentanyl	73 (24%)	122 (53%)	496 (79%)
Sold as counterfeit pills or “blues”	40 (13%)	181 (29%)	484 (77%)
Mixed with stimulant, sold as mixed	23 (7%)	55 (24%)	161 (26%)
Mixed with stimulant, sold as cocaine	33 (11%)	--	--
Mixed with stimulant, sold as meth	54 (18%)	87 (38%)	236 (38%)

NOTE: *asked of those reporting being aware of fentanyl in the Denver drug market.
Percentages do not sum to 100% as more than one can apply

Received methadone, buprenorphine, Suboxone, or Subutex in an Emergency Department in Past 12 Months



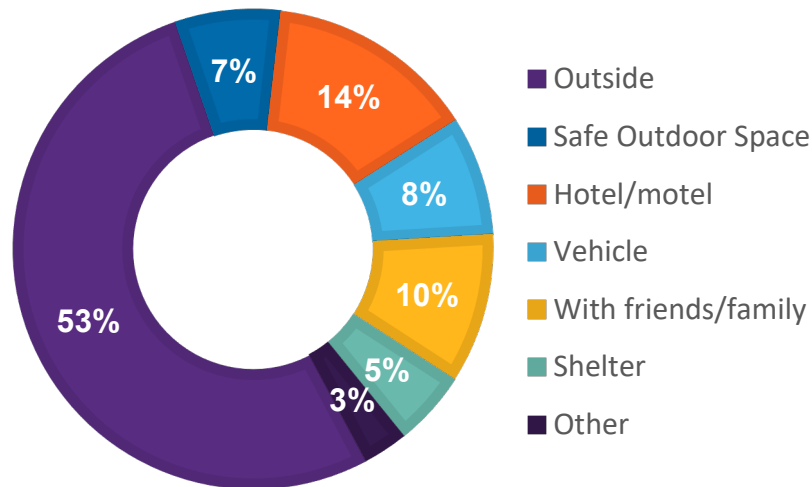
Patterns of Homelessness, 2024

65% of participants were currently experiencing homelessness (defined as living on the street, in a shelter, in a single room occupancy hotel, or in a car)

1 in 3 for first time



Where Most Nights Are Spent



7 in 8 for over a year



69% asked to move camp, tent, or outdoor sleeping location by police or other city officials, commonly referred to as a sweep or forced relocation

Questions?



National website

<https://www.cdc.gov/hiv-data/nhbs/index.html>

Denver website

<https://www.phidenverhealth.org/health-data/nhbs>

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