

# Transgender Women Experiencing Homelessness: National HIV Behavioral Surveillance among Transgender Women (NHBS-Trans), Seven Urban Areas, 2019-2020

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### Disclaimer

The findings and conclusions in this presentation are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.





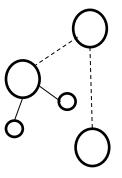
### Background

- Housing instability is associated with poor HIV outcomes including:
  - Poor retention in care
  - Low adherence to antiretroviral medications
  - Low viral suppression
  - High death rates











# NATIONAL HIV/AIDS STRATEGY

for the United States 2022–2025





# Housing in the context of Ending the HIV Epidemic

- Housing issues disproportionately affect certain populations, including (but not limited to):
  - Racial/ethnic minority groups
  - Women, including transgender women
  - Persons who experience socioeconomic disadvantage

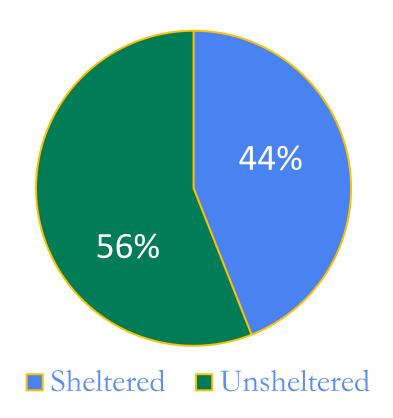
Many of these populations may also be disproportionately affected by HIV



### National Point-in-Time Count, 2022

### 3,588 transgender people







### Homelessness among transgender people may be associated with:



- Financial insecurity
- Interpersonal rejection
- Mental health conditions
- Substance use disorders
- Exchanging sex for money or drugs

Source: Glick JL, Lopez A, Pollock M, Theall KP. Housing insecurity and intersecting social determinants of health among transgender people in the USA: A targeted ethnography. Int J Transgend Health. 2020;21(3):337-49.



### Consequences of Unstable Housing for Transgender People

- Denial of shelter based on gender identity
- Inappropriate housing in gendered space they don't identify with
- Safety concerns
- Housing discrimination
- Eviction







Morbidity and Mortality Weekly Report

May 20, 2022

Factors Associated with Use of HIV Prevention and Health Care Among Transgender Women — Seven Urban Areas, 2019–2020

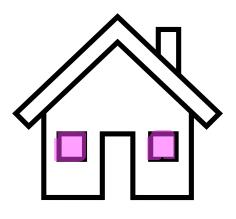
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# 39% of transgender women experienced homelessness in the past 12 months

<u>Source: Factors Associated with Use of HIV Prevention and Health Care Among Transgender</u> <u>Women — Seven Urban Areas, 2019–2020 (cdc.gov)</u>



Are there other individual or social determinants associated with housing instability among transgender women?







### National HIV Behavioral Surveillance among Transgender Women (NHBS-Trans)

Goal: conduct an HIV-related bio-behavioral survey to monitor behavioral risks, prevention usage, and HIV prevalence

- June 2019 February 2020
- Respondent-driven sampling
- Interviewer-administered survey and HIV testing

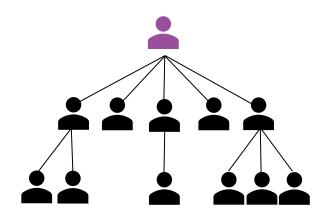


https://www.cdc.gov/hiv/statistics/systems/nhbs/additional-populations.html#NHBS-Trans



### Respondent-driven sampling (RDS)

- Probability-based sampling method
- Researcher selects an initial participant ("seed"), who recruits peers based on certain criteria, who recruit their peers, etc., etc.





### Interviewer-administered survey

Standardized, anonymous data



- Interviewer-administered on portable computers in English or Spanish
- Key questionnaire components
  - Demographics
  - Sexual behaviors
  - Alcohol and drug use history
  - Health conditions

- Gender-affirming care
- HIV testing experiences
- Justice system experience
- Prevention activities, including PrEP
- Project areas can add locally relevant questions



### HIV testing

- All participants are offered anonymous HIV testing and counseling
- Participants with HIV are referred to care and treatment services
- Participants who test negative for HIV are referred for preexposure prophylaxis or PrEP, counseling, and prevention services





### NHBS-Trans project areas, 2019-2020





### Methods (con't)

#### Eligibility criteria:

- Assigned male at birth
- Identify as woman or transgender woman
- 18 years or older
- Living in one of 7 urban areas

#### Definition of homelessness:

- Living on the street
- In a shelter
- In a single room occupancy hotel
- In a car

in the past 12 months



### NHBS-Trans Homelessness Analysis

**Purpose:** to examine the prevalence of homelessness in the past 12 months among transgender women enrolled in NHBS-Trans by individual and social factors

### **Analysis:**

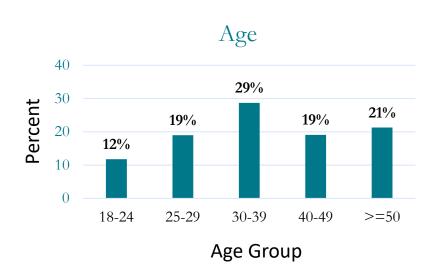
- Log-linked Poisson regression models
  - Adjusted prevalence ratio (aPR) and 95% CI
  - Adjusted for city, network size
  - Clustered on recruitment chains



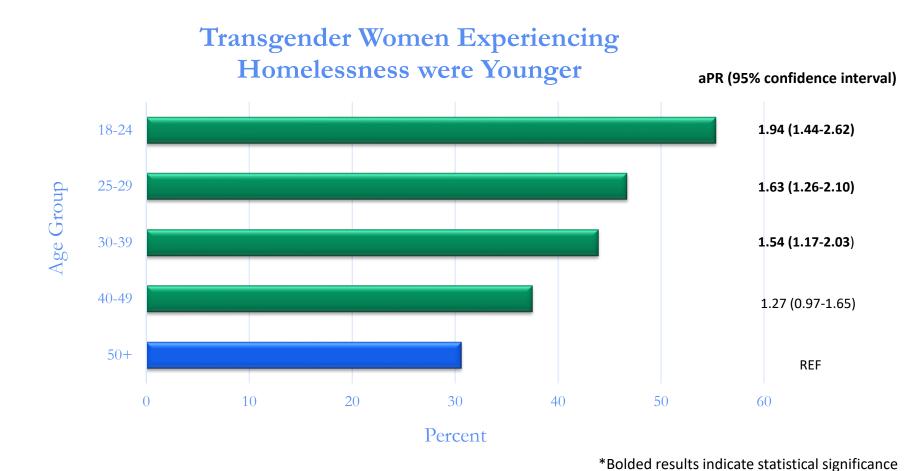


### Demographics, n=1,608

Race/Ethnicity	
American Indian/Alaska Native	1%
Asian	2%
Black/African American	35%
Hispanic/Latina	40%
Native Hawaiian/Other Pacific Islander	3%
White	11%
Multiple Races	8%



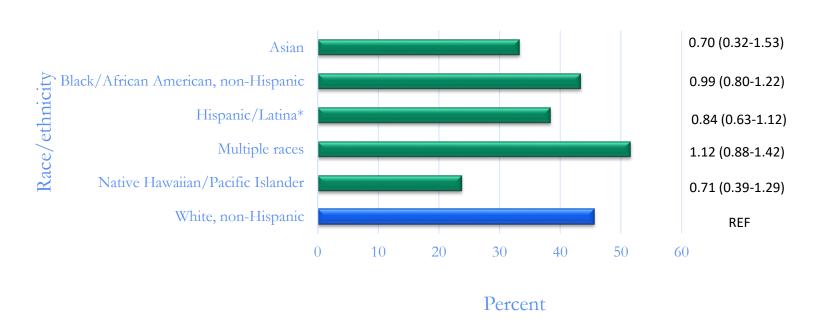






### Transgender Women Experiencing Homelessness were of All Race/Ethnicities

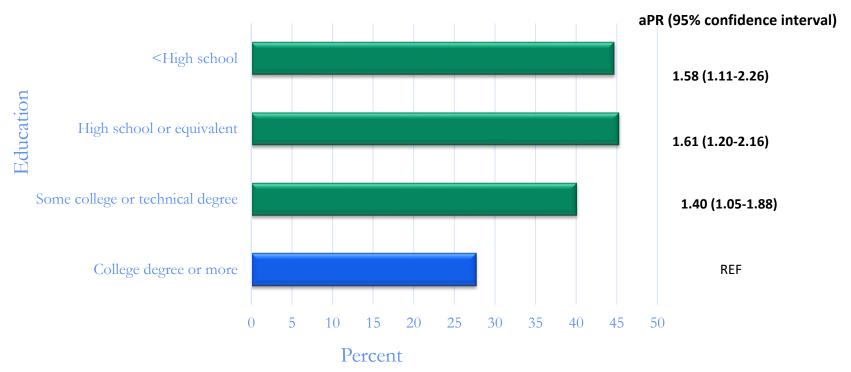
aPR (95% confidence interval)



<sup>\*</sup>Hispanic/Latina can be of any race



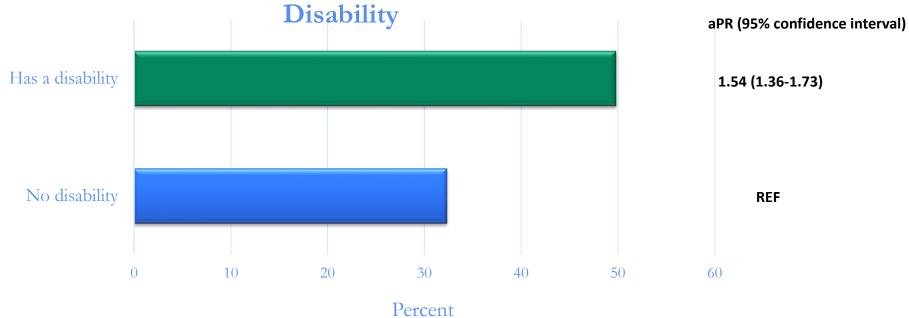
#### Transgender Women Experiencing Homelessness had Less Education



<sup>\*</sup>Bolded results indicate statistical significance



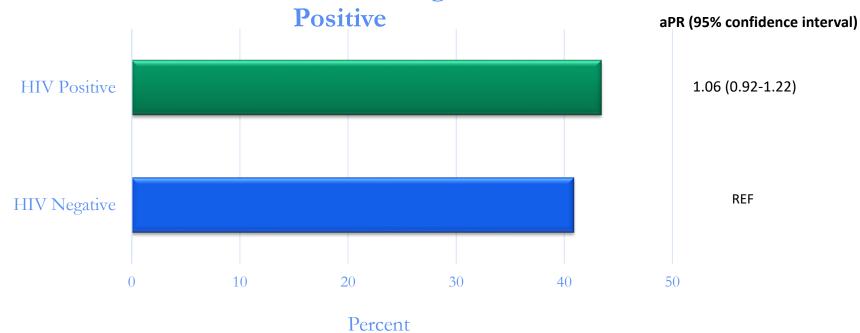
### Transgender Women Experiencing Homelessness were More Likely to have a



<sup>\*</sup>Bolded results indicate statistical significance

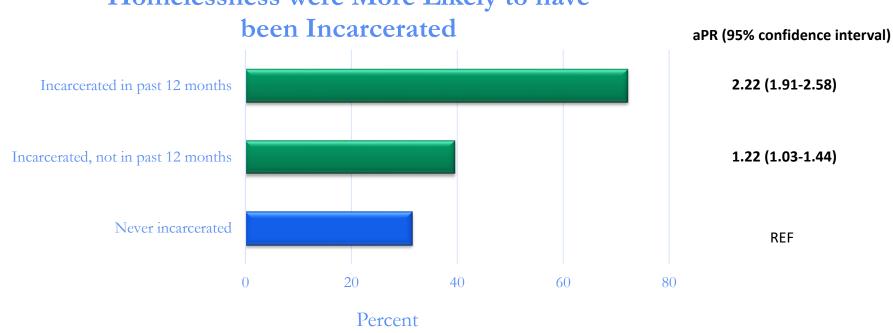


### Transgender Women Experiencing Homelessness Tested HIV Negative and HIV





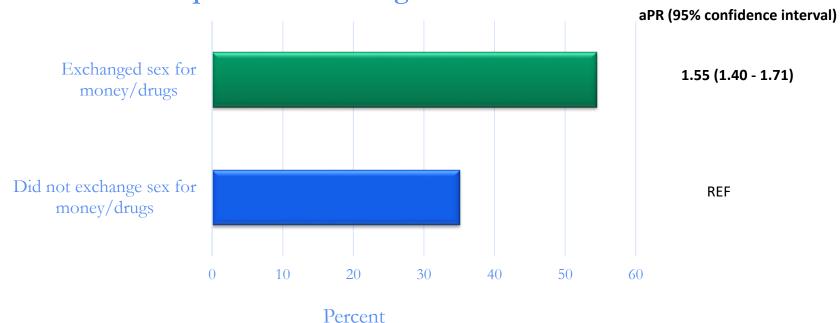
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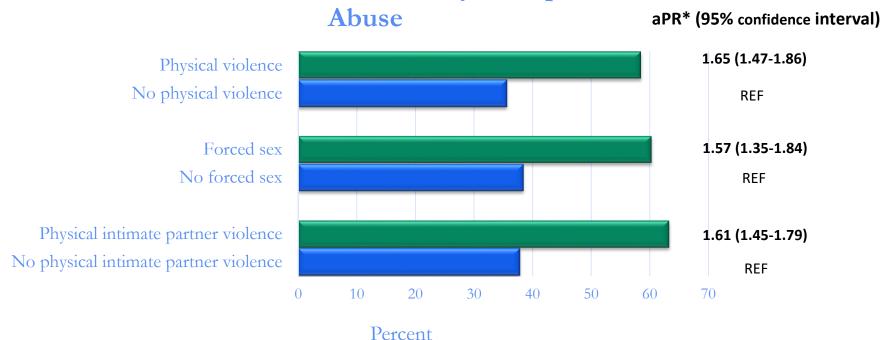
#### Transgender Women Experiencing Homelessness were More Likely to Experience Exchange Sex



<sup>\*</sup>Bolded results indicate statistical significance

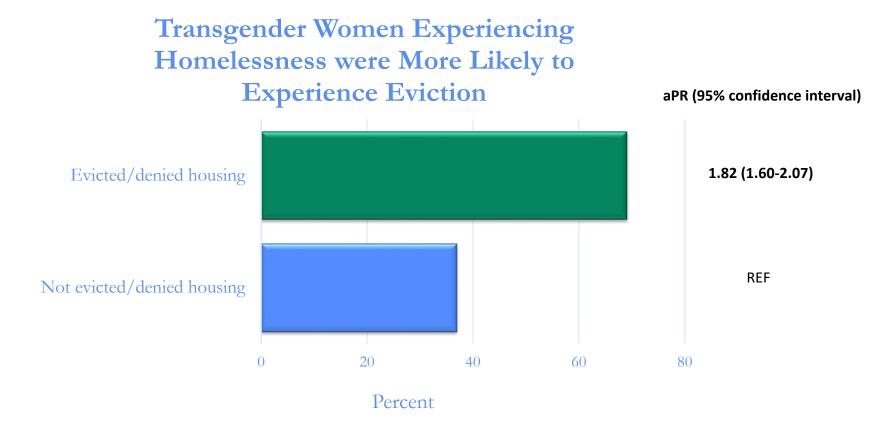


### Transgender Women Experiencing Homelessness were More Likely to Experience



<sup>\*</sup>Bolded results indicate statistical significance





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### Individual-level Factors

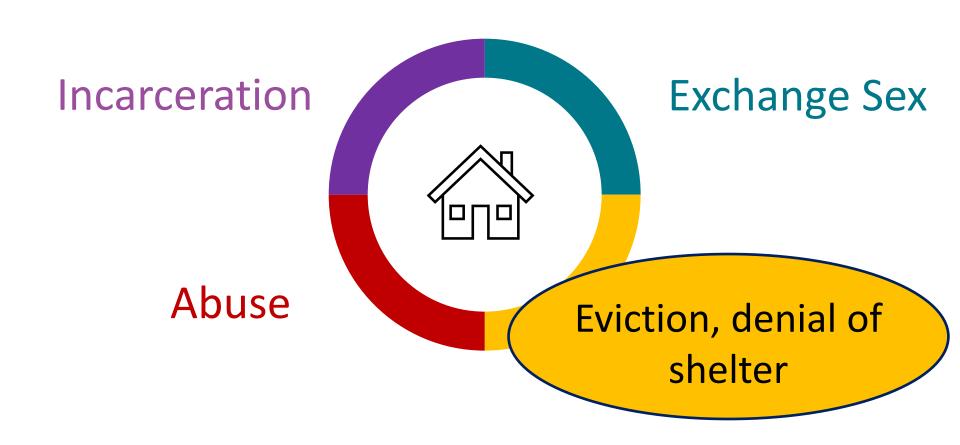


Disability

Lower educational level



### Social and Structural Factors





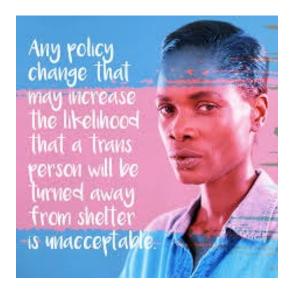
#### Benefits of NHBS-Trans

- Transgender and gender non-conforming (TGNC) staff integration
- Benefits to the project
  - Community buy-in
  - Provide same-day, Community Advisory Board-level insights
- Benefits to communities
  - Employment and training opportunities to people in communities disproportionately impacted by unemployment, low income, and job discrimination
  - Many transitioned to full-time employment after NHBS-Trans



### Suggested Solutions

- Promote gender-neutral housing, allowing people to use a space that aligns with their identity.
- Integrate housing services with behavioral health services and clinical care to reduce HIV risk and improve quality of life for transgender women.





#### More solutions

- Provide gender-expansive cultural competency trainings for staff of housing and other social services.
- Promote policies to reduce stigma and discrimination in housing.
- Support policies such as the U.S. Department of Housing and Urban Development (HUD) Fair Housing Act which prohibits discrimination on the basis of gender identity.

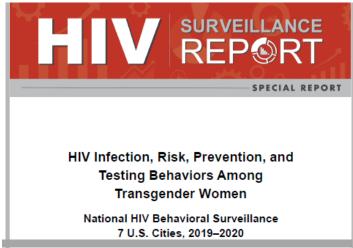


### Limitations

- Results not representative of all transgender women living outside these 7 urban areas
- Data are self-reported and subject to recall and social desirability bias
- Survey was cross-sectional so findings report associations and causality cannot be inferred



### Data dissemination examples



Transgender Health, Ahead of Print

Disparities in Sexually Transmitted Infection
Testing and the Need to Strengthen
Comprehensive Sexual Health Services for Trans
Women

Dillon Trujillo 🖂 Sean Arayasirikul, Hui Xie, Sofia Sicro, Joaquin Meza, Mackie Bella, Emperatriz Daza, Francisco Torres, Willi McFarland, and Erin C. Wilson

Published Online: 21 Jan 2021 | https://doi.org/10.1089/trgh.2020.0133



PED0884

SYNDEMIC PSYCHOSOCIAL FACTORS ARE BARRIERS TO THE HIV CARE CONTINUUM AMONG TRANS WOMEN IN SAN FRANCISCO

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https://tcher.cc

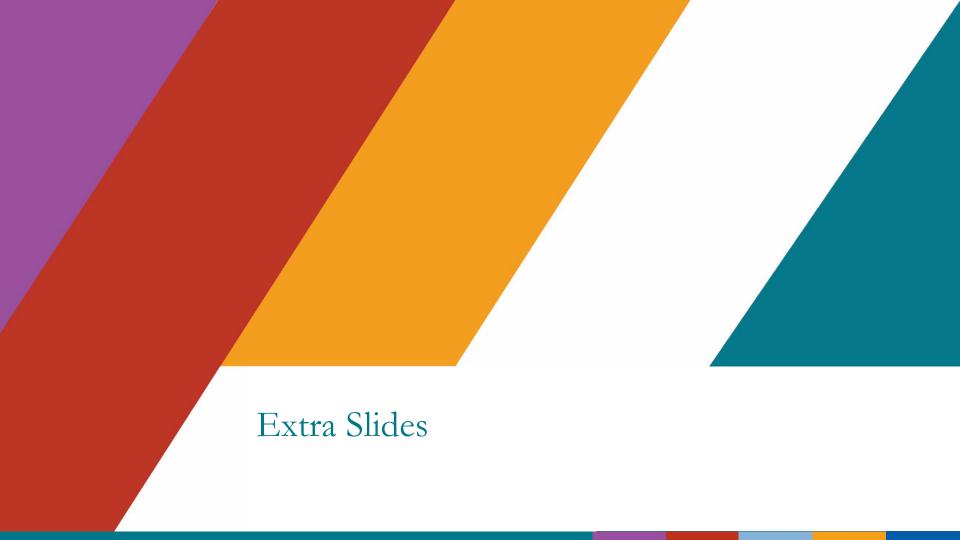


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  - Seattle, WA: Sara Glick, Aleks Martin, Jennifer Reuer
- Community Advisory Boards and participants
- Sharoda Dasgupta, PhD, MPH







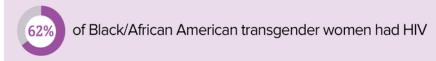


### HIV Prevalence Among Transgender Women in 7 US Cities, 2019-2020\*

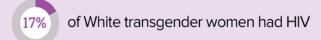
Racial and ethnic disparities exist among transgender women with HIV.



Among transgender women interviewed, 42% had HIV.







Source: CDC. HIV infection, risk, prevention, and testing behaviors among transgender women-National HIV Behavioral Surveillance-7 U.S. Cities, 2019-2020. HIV Surveillance Special Report 2021.

<sup>\*</sup> Among people aged 18 and older.



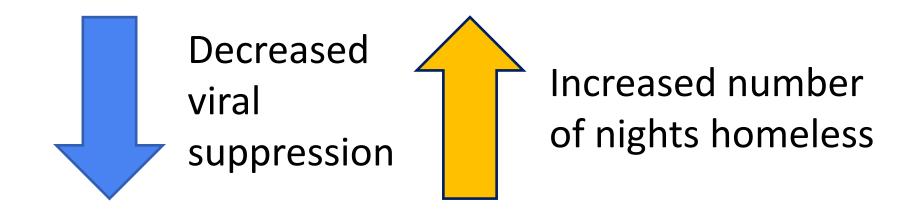
TABLE 2. HIV treatment among transgender women living with a positive HIV test result — National HIV Behavioral Surveillance System, seven U.S. urban areas,\* 2019–2020

	No. of transgender -	Viral suppression			Current antiretroviral use		
Characteristic	women	No. (%)	aPR <sup>†</sup> (95% CI)	p-value	No. (%)	aPR† (95% CI)	p-value
Experienced homelessness <sup>6</sup>							
Yes	265	179 (67.6)	0.88 (0.81-0.96)	0.003	226 (85.3)	0.91 (0.88-0.96)	< 0.001
No	350	288 (82.3)	Ref	_	325 (92.9)	Ref	_
No. of nights homeless <sup>§</sup>							
365	60	33 (55.0)	0.75 (0.58-0.96)	0.025	47 (78.3)	0.84 (0.76-0.93)	0.001
30-364	139	97 (69.8)	0.91 (0.83-1.00)	0.048	119 (85.6)	0.92 (0.87-0.98)	0.011
<30	50	39 (78.0)	1.02 (0.88-1.18)	0.804	47 (94.0)	0.99 (0.91-1.08)	0.799
None	350	288 (82.3)	Ref	_	325 (92.9)	Ref	_

- HIV-positive participants experiencing homelessness were less likely to be virally suppressed than those who did not report homelessness
- The likelihood of viral suppression decreased as the number of nights of homelessness increased.



# Viral Suppression less common among people with diagnosed HIV experiencing homelessness





## **CDC Conducts National HIV Behavioral Surveillance** (NHBS)

- Among populations at increased risk for HIV infection in the U.S., monitor prevalence and trends:
  - HIV infection
  - HIV risk behaviors (sex, drug use)
  - HIV testing and use of prevention services





### **NHBS Populations**

 Gay, bisexual and other men who have sex with men - MSM cycle



Persons who inject drugs - PWID cycle



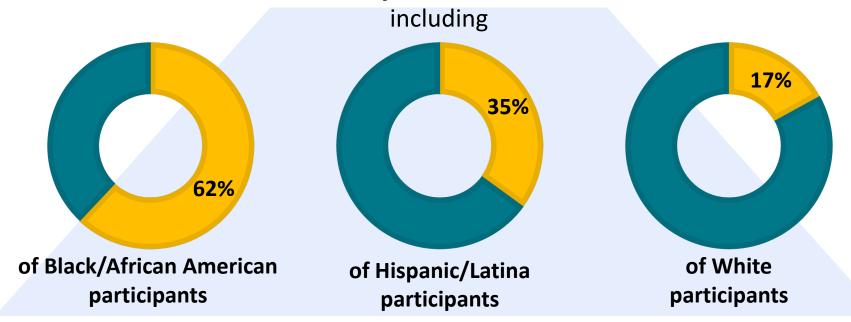
 Heterosexually active persons at increased risk of HIV infection - HET cycle





# 42%

#### tested positive for HIV



Data include all participants with a valid NHBS HIV test result.