

# HIV among people aged 13 to 29 years in New York City, 2022

HIV Epidemiology Program

New York City Department of Health and Mental Hygiene

Published November 2023

<https://www.nyc.gov/site/doh/data/data-sets/hiv-aids-surveillance-and-epidemiology-reports.page>



Bureau of Hepatitis, HIV, and Sexually Transmitted Infections

*Envisioning a New York City without transmission or illness related to viral hepatitis, HIV, and sexually transmitted infections.*

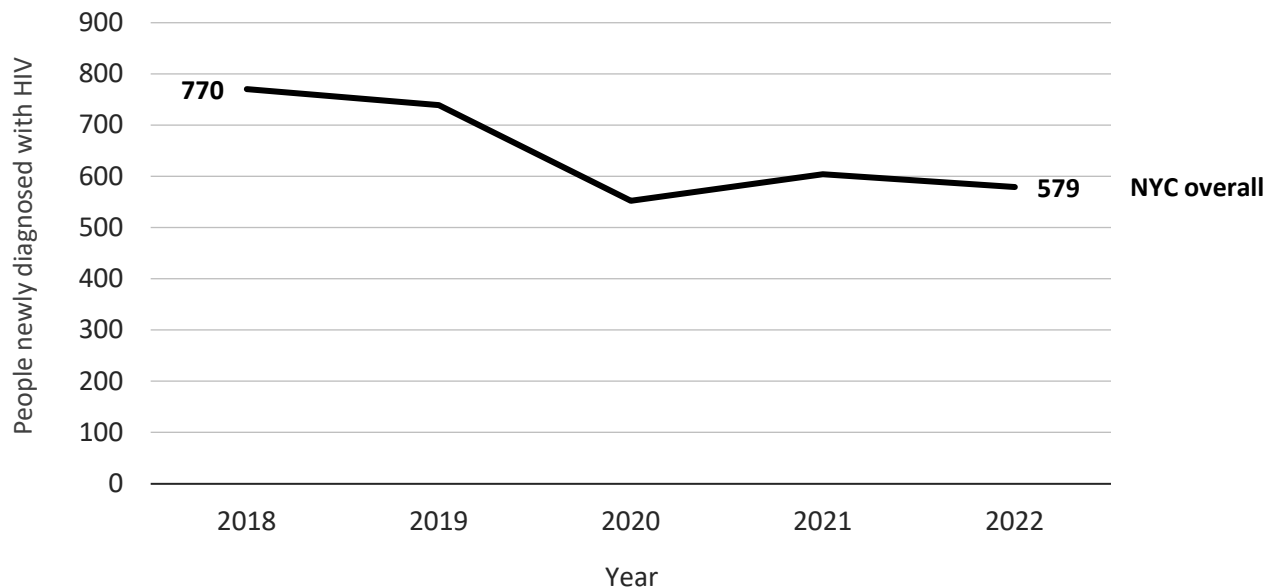
# Table of contents

Description	Slide number
<b>Number of new HIV diagnoses among people aged 13 to 29 years in New York City</b>	4
<b>Rate of new HIV diagnoses per 100,000 people aged 13 to 29 years in New York City</b>	5
<b>Basic statistics of HIV among people aged 13 to 29 years in New York City</b>	6
<b>Number of new HIV diagnoses among people aged 13 to 29 years in New York City</b>	
by gender	7
by race or ethnicity	8
by age group	9
by borough	10
by area-based poverty	11
by transmission category	12
by place of birth	13
<b>Proportion of people newly diagnosed with HIV and all people aged 13 to 29 years in New York City</b>	
by race or ethnicity	14
by borough	15
by area-based poverty	16
<b>Rate of new HIV diagnoses per 100,000 people aged 13 to 29 years in New York City</b>	
by race or ethnicity	17
by age group	18
by borough	19
by area-based poverty	20

# Table of contents

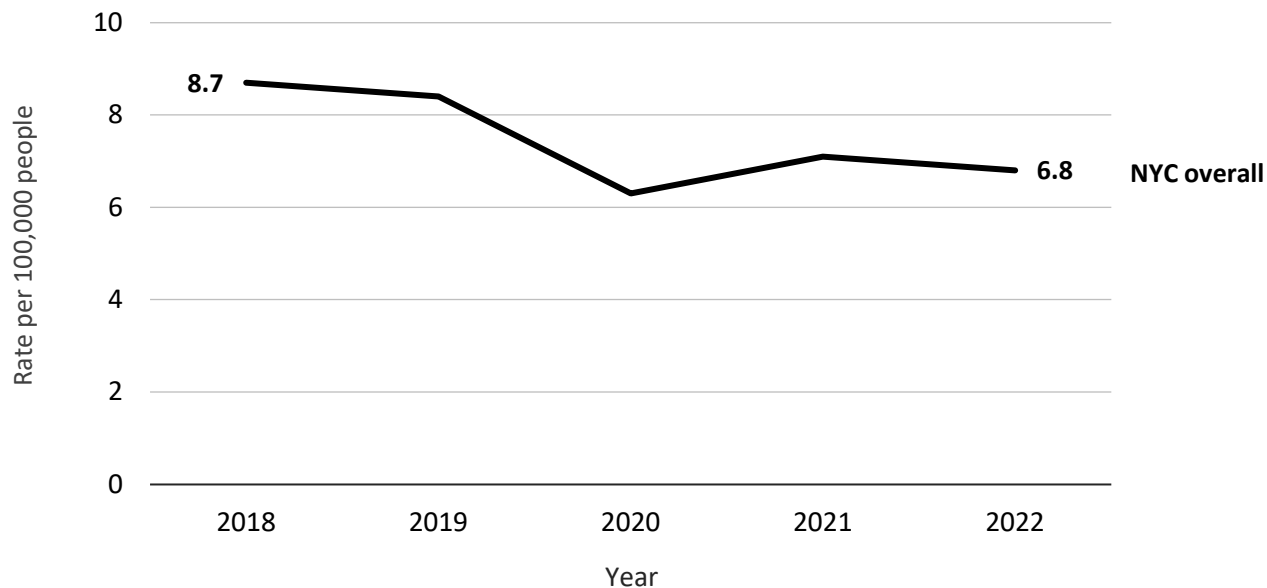
Description	Slide number
<b>Timely initiation of care among people aged 13 to 29 years newly diagnosed with HIV</b>	
in New York City	22
in New York City by demographic groups	23
In New York City by United Hospital Fund Neighborhood	24
<b>Viral suppression within three months among people aged 13 to 29 years newly diagnosed with HIV</b>	
in New York City	25
in New York City by demographic groups	26
In New York City by United Hospital Fund Neighborhood	27
<b>Viral suppression among people aged 13 to 29 years with diagnosed HIV</b>	
in New York City	29
in New York City by demographic groups	30
in New York City by United Hospital Fund Neighborhood	31
<b>Proportion of people aged 13 to 29 years with HIV in stages of the HIV care continuum</b>	
in New York City overall and by race or ethnicity	32
<b>Age-stratified death rate per 1,000 people aged 13 to 29 years with HIV</b>	
in New York City	33
<b>Proportion of deaths among people aged 13 to 29 years with HIV in New York City</b>	
by cause of death	34
<b>Appendices</b>	
How to find our data	35
Methodology and definitions	36
Technical notes on the HIV care continuum	37

# Number of new HIV diagnoses among people aged 13 to 29 years in New York City, 2018-2022



The number of new HIV diagnoses among people aged 13 to 29 years in New York City decreased by 25% from 2018 to 2022. The lowest number of diagnoses occurred in 2020, the year COVID-19 was first detected in New York City.

# Rate of new HIV diagnoses<sup>1</sup> per 100,000 people aged 13 to 29 years in New York City, 2018-2022

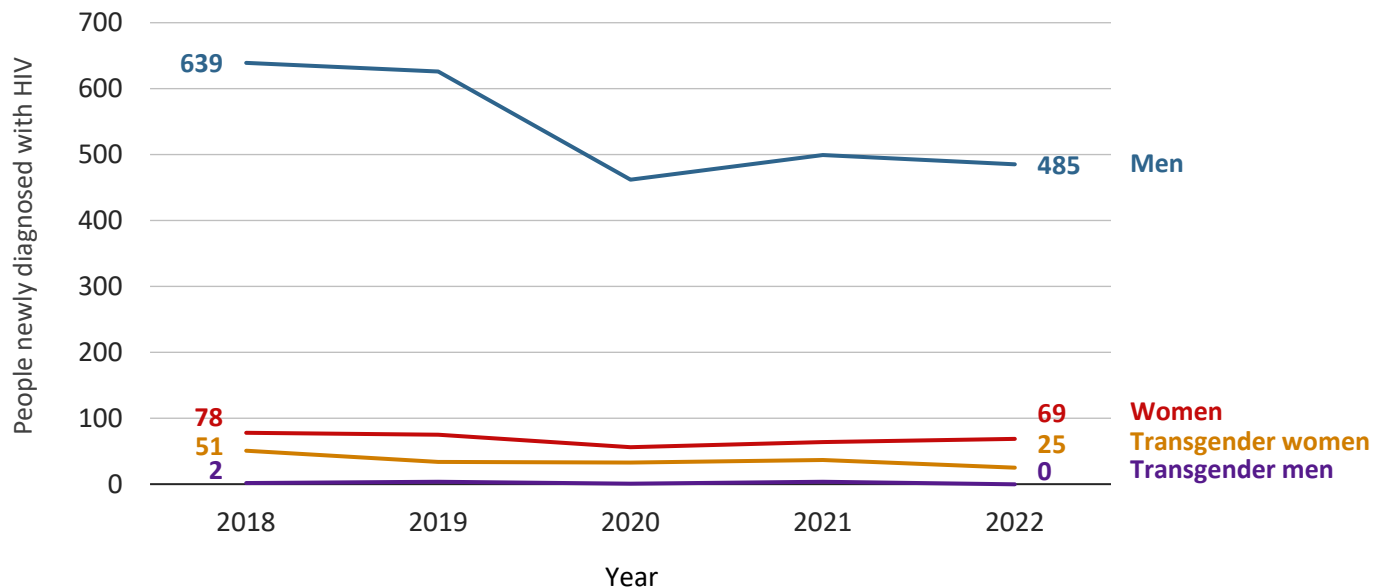


The rate of new HIV diagnoses among people aged 13 to 29 years in New York City decreased by 22% from 2018 to 2022.

# Basic statistics of HIV among people aged 13 to 29 years in New York City, 2022

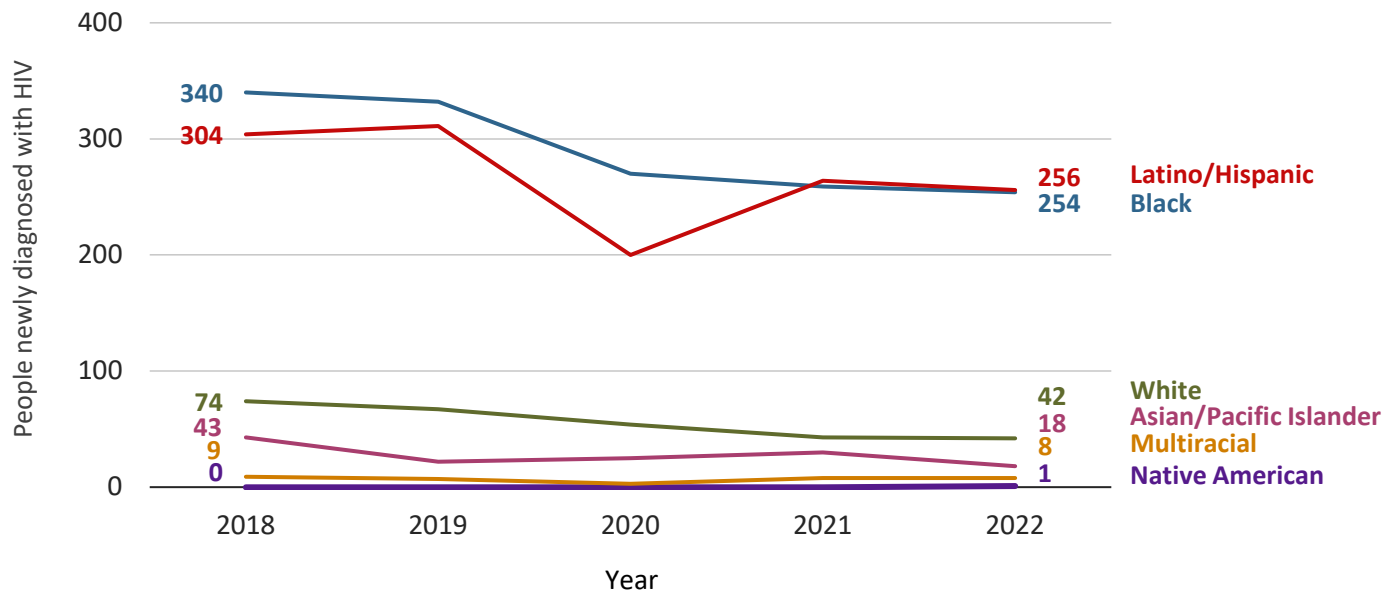
- **579 people newly diagnosed with HIV**
  - Including 72 people concurrently diagnosed with AIDS (12.4% of diagnoses)
- **374 people newly diagnosed with AIDS**
- **7,300 people with HIV<sup>1</sup>**
- **30 deaths among people with HIV**
  - 0 deaths among people aged 13 to 19 years
  - 30 deaths among people aged 20 to 29 years

# Number of new HIV diagnoses among people aged 13 to 29 years in New York City by gender, 2018-2022



The number of new HIV diagnoses decreased or remained stable in all gender groups among people aged 13 to 29 years between 2018 and 2022. Men consistently experienced the highest number of new HIV diagnoses, representing 84% of new diagnoses in this age group in 2022.

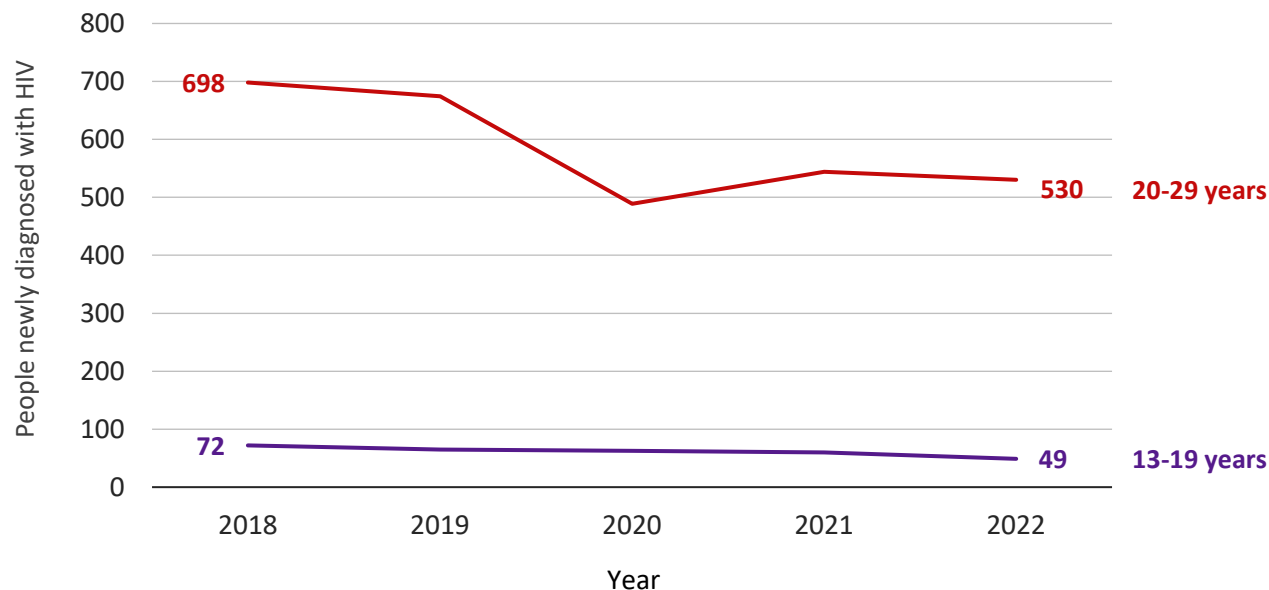
# Number of new HIV diagnoses among people aged 13 to 29 years in New York City by race or ethnicity, 2018-2022



The number of new HIV diagnoses decreased or remained stable in all race or ethnicity groups among people aged 13 to 29 years between 2018 and 2022. Black and Latino/Hispanic people consistently experienced the highest number of new HIV diagnoses, representing a combined 88% of new diagnoses in this age group in 2022.

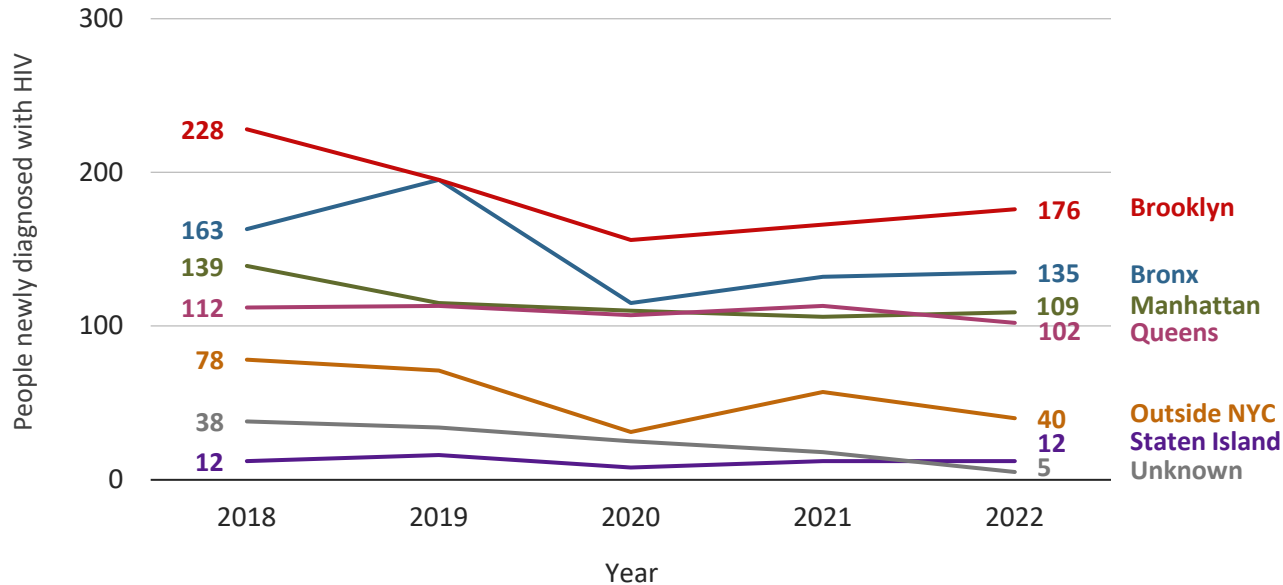


# Number of new HIV diagnoses among people aged 13 to 29 years in New York City by age group, 2018-2022



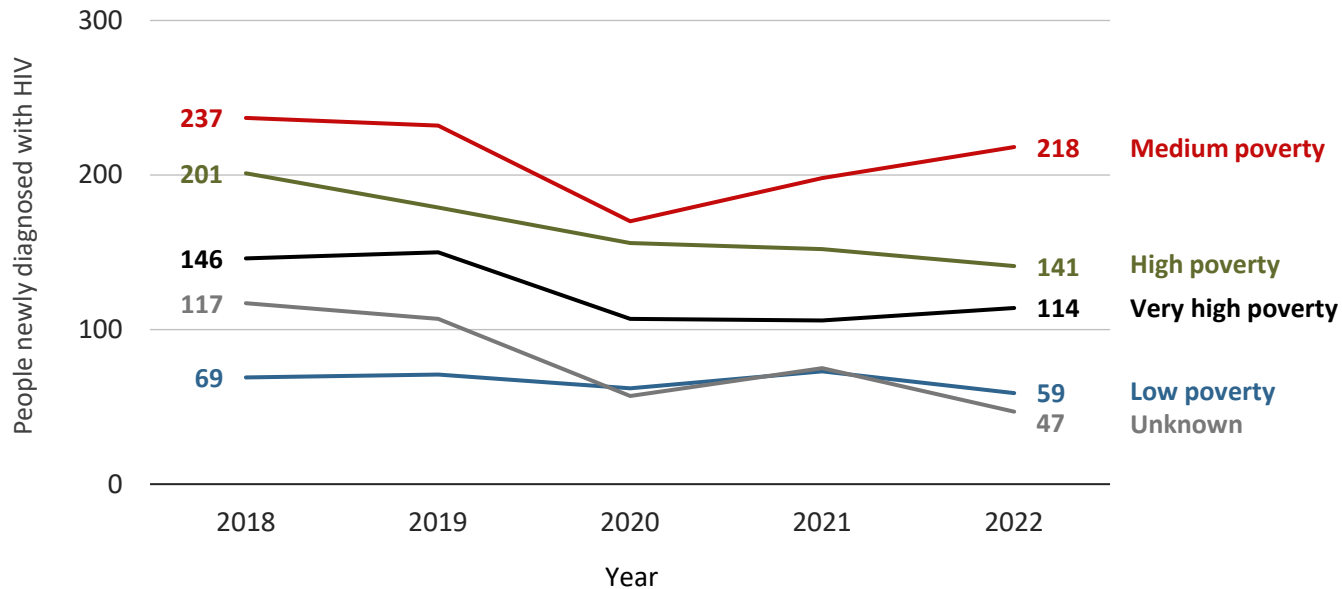
The number of new HIV diagnoses decreased or remained stable in all age groups among people aged 13 to 29 years between 2018 and 2022. People aged 20 to 29 years consistently experienced a higher number of new HIV diagnoses, representing 92% of new diagnoses in this age group in 2022.

# Number of new HIV diagnoses among people aged 13 to 29 years in New York City by borough of residence, 2018-2022



The number of new HIV diagnoses decreased or remained stable in all boroughs of residence among people aged 13 to 29 years between 2018 and 2022. Brooklyn and the Bronx consistently experienced the highest number of new HIV diagnoses, representing a combined 54% of new diagnoses in this age group in 2022.

# Number of new HIV diagnoses among people aged 13 to 29 years in New York City by area-based poverty,<sup>1</sup> 2018-2022



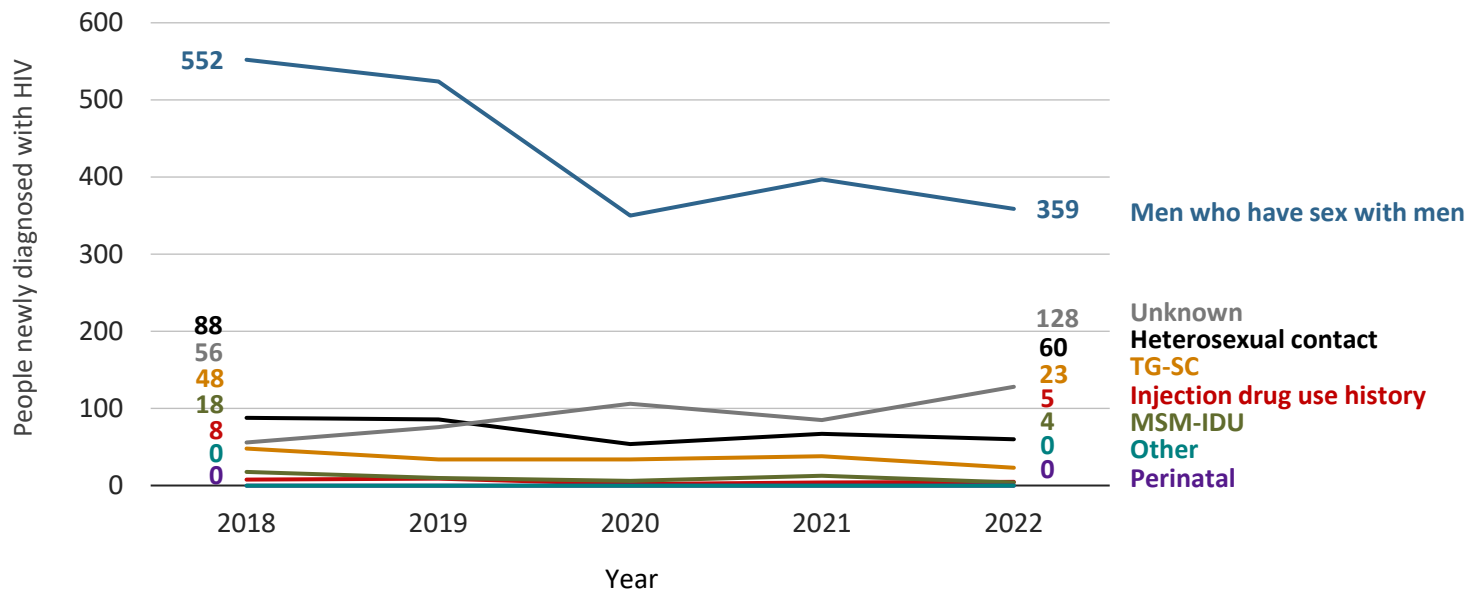
The number of new HIV diagnoses decreased or remained stable in all area-based poverty groups among people aged 13 to 29 years between 2018 and 2022. Areas with medium poverty consistently experienced the highest number of new HIV diagnoses, representing 38% of new diagnoses in this age group in 2022.

<sup>1</sup>Area-based poverty level is determined by the proportion of residents living below the federal poverty level (FPL) in the NYC ZIP code of residence at diagnosis.

Low poverty=<10% below FPL; Medium poverty=10 to <20% below FPL; High poverty=20 to <30% below FPL; Very high poverty= $\geq$ 30% below FPL.

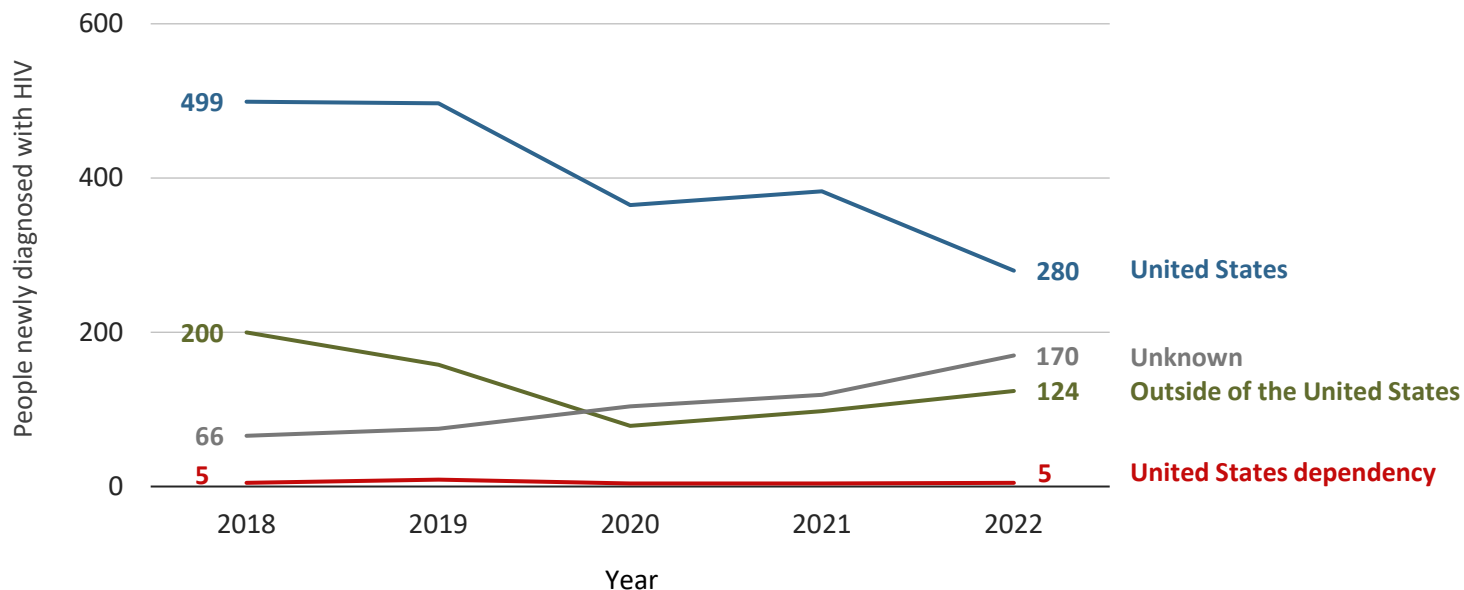
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2023.

# Number of new HIV diagnoses among people aged 13 to 29 years in New York City by transmission category, 2018-2022



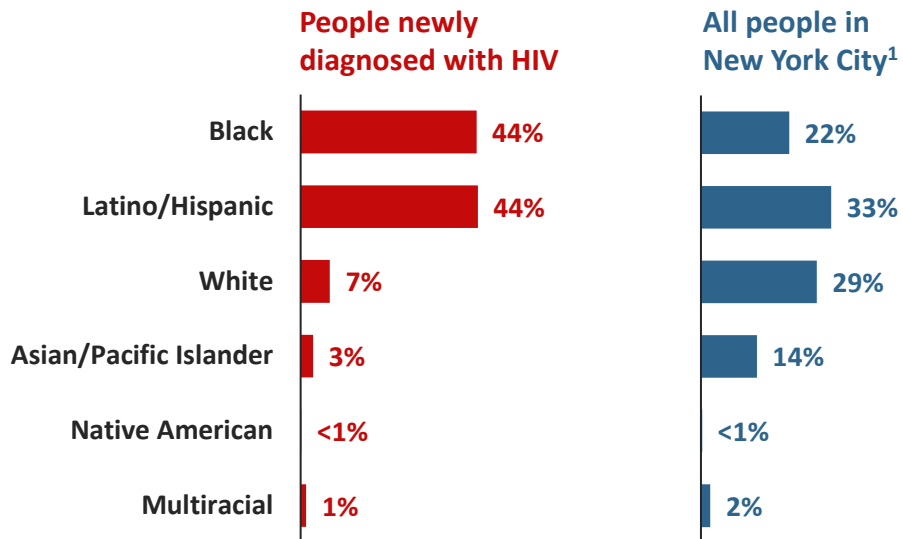
Between 2018 and 2022, there was a 129% increase in people newly diagnosed with HIV aged 13 to 29 years with an unknown transmission category.<sup>1</sup> The number of new HIV diagnoses decreased or remained stable for all other transmission categories. Men who have sex with men consistently experienced the highest number of new HIV diagnoses, representing 62% of new diagnoses in this age group in 2022.

# Number of new HIV diagnoses among people aged 13 to 29 years in New York City by place of birth, 2018-2022



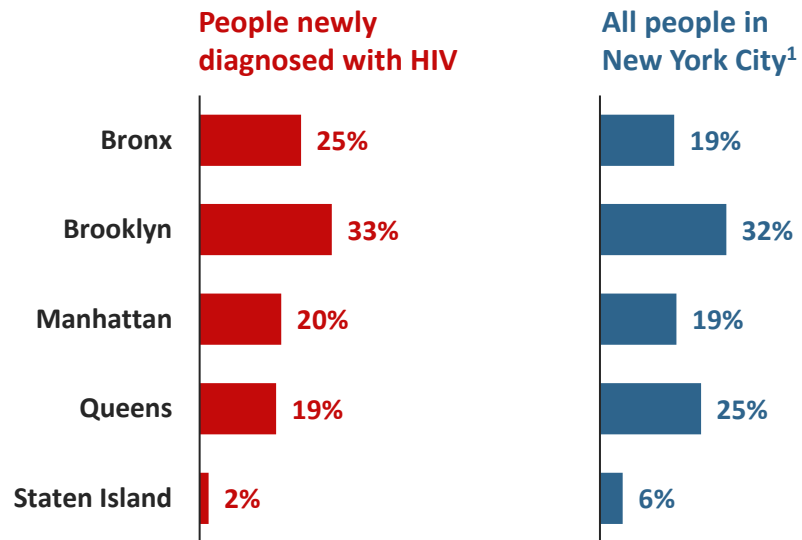
Between 2018 and 2022, there was a 158% increase in people newly diagnosed with HIV aged 13 to 29 years with an unknown place of birth.<sup>1</sup> The number of new HIV diagnoses decreased or remained stable for all other places of birth. People born in the United States consistently experienced the highest number of new HIV diagnoses, representing 48% of new diagnoses in this age group in 2022.

# Proportion of people newly diagnosed with HIV and all people<sup>1</sup> aged 13 to 29 years in New York City by race or ethnicity, 2022



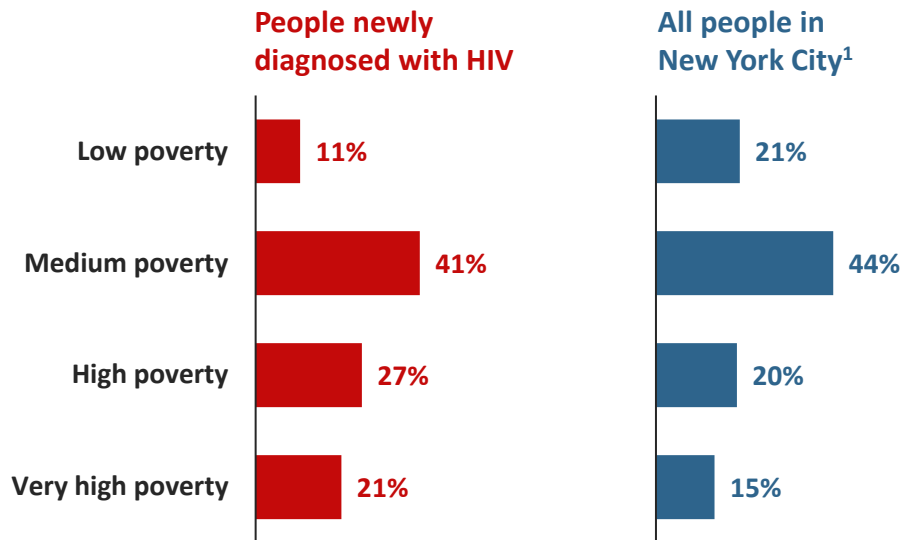
Among people aged 13 to 29 years, the proportion of new HIV diagnoses among Black and Latino/Hispanic people is higher than their respective proportions among all people in New York City.

# Proportion of people newly diagnosed with HIV and all people<sup>1</sup> aged 13 to 29 years in New York City by borough of residence,<sup>2</sup> 2022



**Among people aged 13 to 29 years, the proportion of new HIV diagnoses among people in the Bronx is higher than the respective proportion among all people in New York City.**

# Proportion of people newly diagnosed with HIV and all people<sup>1</sup> aged 13 to 29 years in New York City by area-based poverty,<sup>2,3</sup> 2022



**Among people aged 13 to 29 years, the proportion of new HIV diagnoses among people living in areas with high or very high poverty is higher than their respective proportions among all people in New York City.**

<sup>1</sup>NYC population calculated using Health Department population estimates, modified from U.S. Census Bureau intercensal population estimates, updated September 2022.

<sup>2</sup>Area-based poverty level is determined by the proportion of residents living below the federal poverty level (FPL) in the NYC ZIP code of residence at diagnosis.

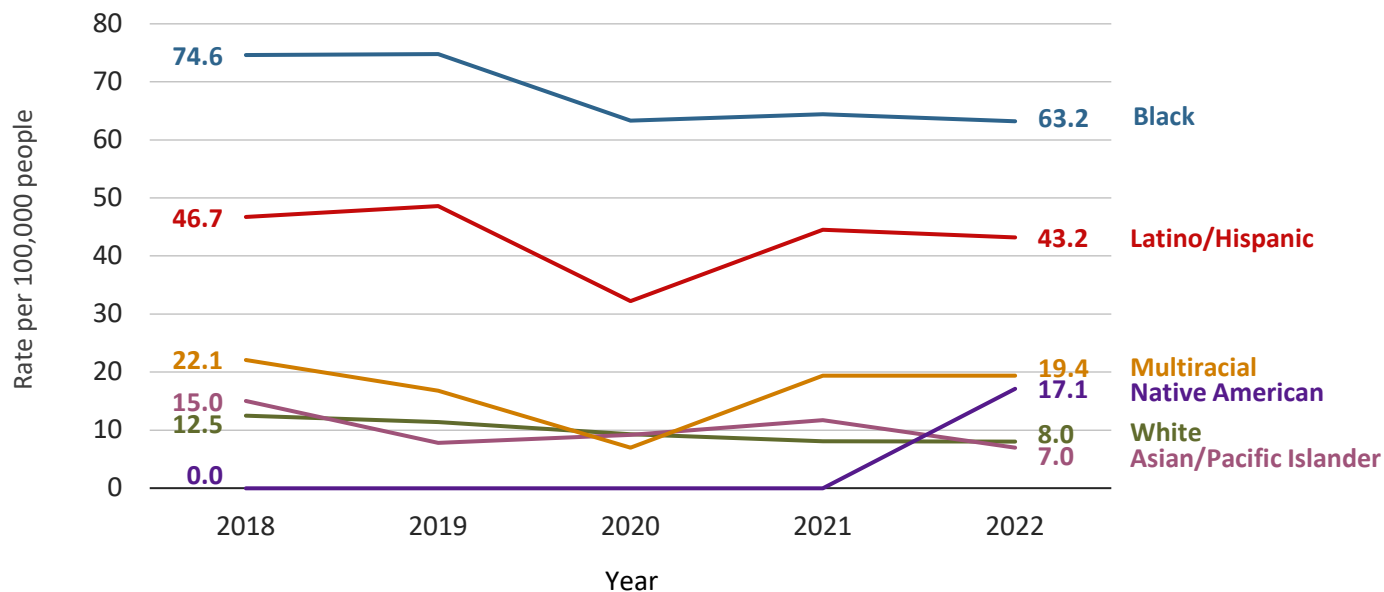
Low poverty=<10% below FPL; Medium poverty=10 to <20% below FPL; High poverty=20 to <30% below FPL; Very high poverty= $\geq$ 30% below FPL.

<sup>3</sup>Proportions exclude people living in areas with unknown area-based poverty level

As reported to the New York City Department of Health and Mental Hygiene by March 31, 2023.

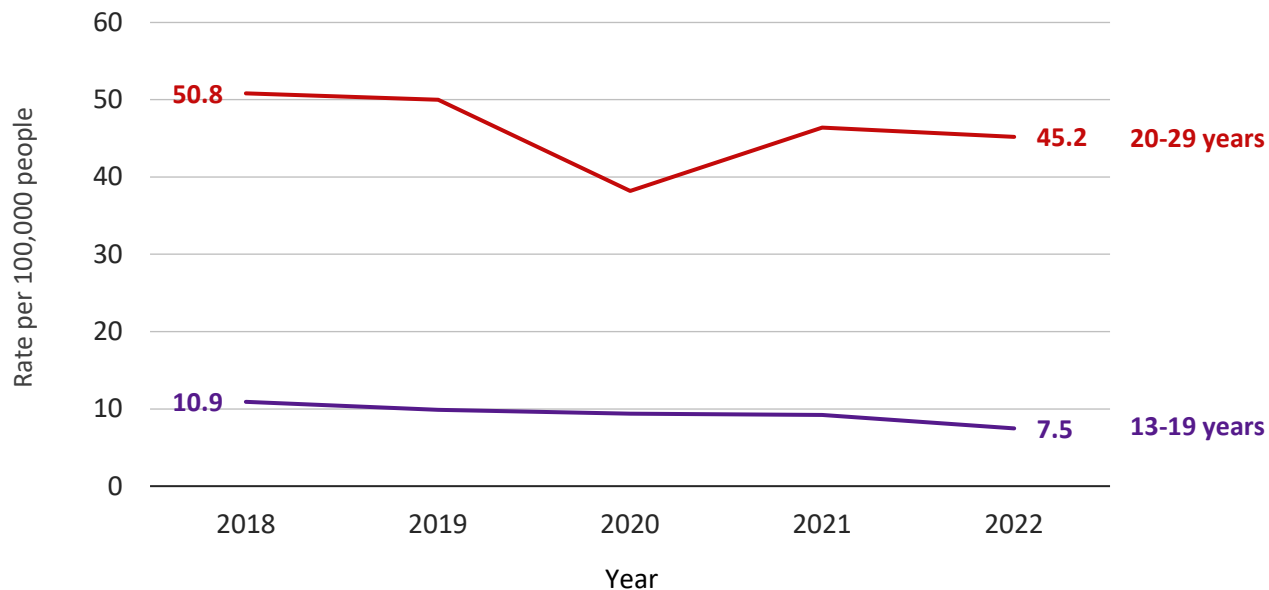


# Rate of new HIV diagnoses<sup>1</sup> per 100,000 people aged 13 to 29 years in New York City by race or ethnicity, 2018-2022



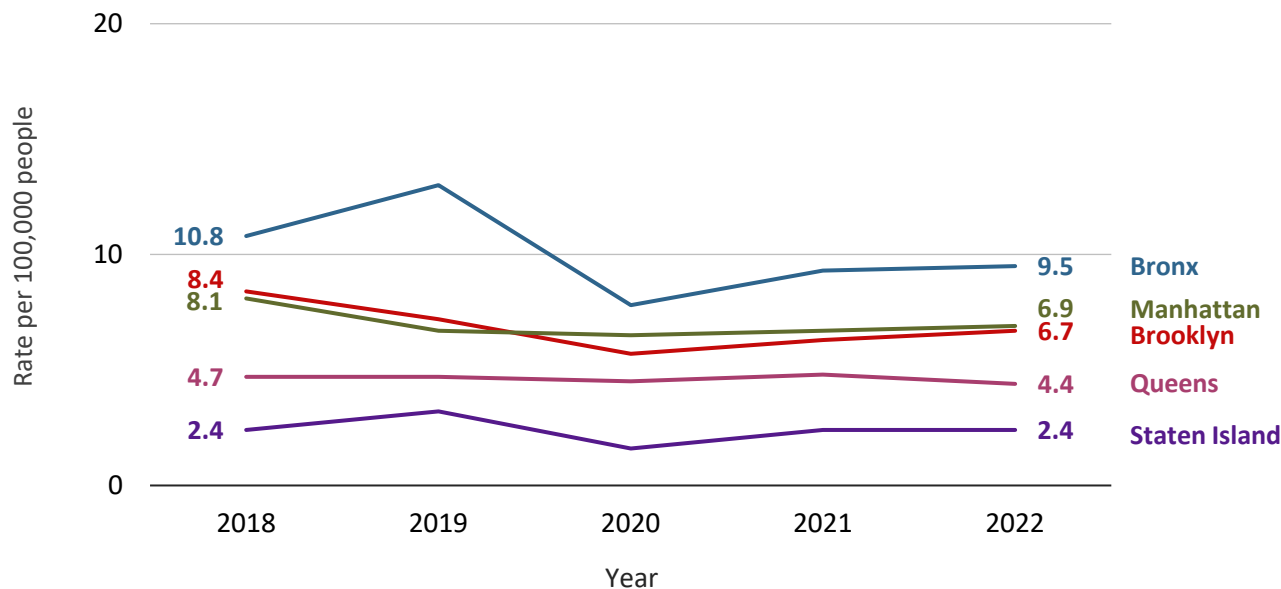
The rate of new HIV diagnoses increased among Native American people aged 13 to 29 years, with one person newly diagnosed in 2022; counts remain low, the rate should be interpreted with caution. The rate of new HIV diagnoses decreased or remained stable in all other race or ethnicity groups between 2018 and 2022. Black and Latino/Hispanic people consistently experienced the highest rates of new HIV diagnoses.

# Rate of new HIV diagnoses<sup>1</sup> per 100,000 people aged 13 to 29 years in New York City by age group, 2018-2022



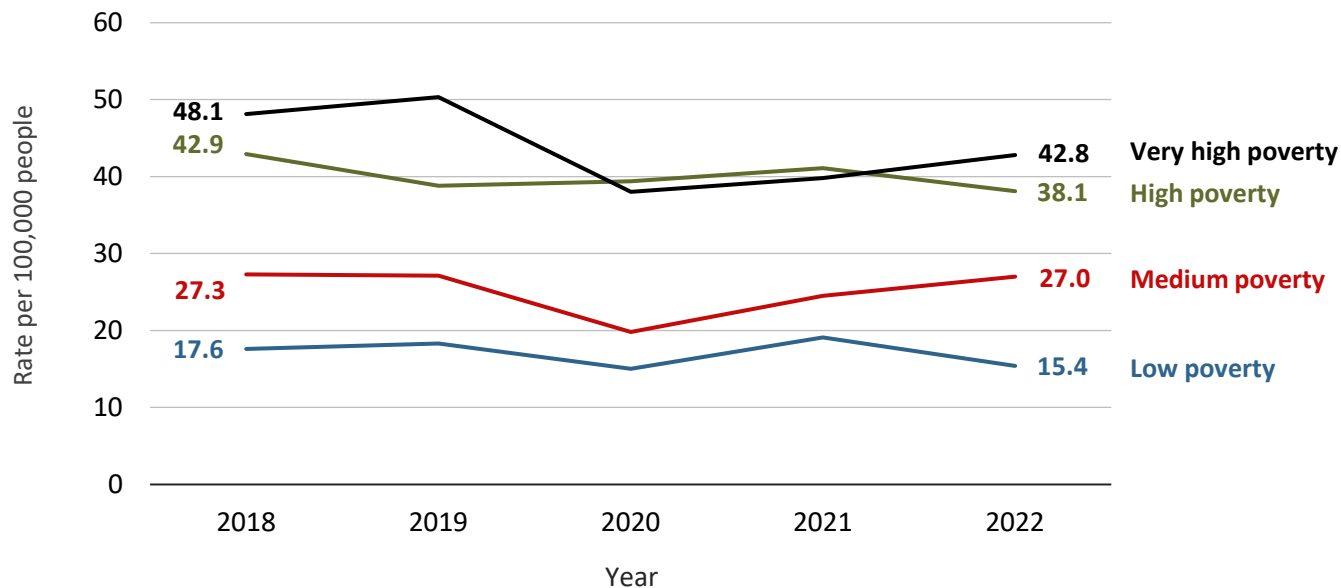
The rate of new HIV diagnoses decreased or remained stable in both age groups among people aged 13 to 29 years between 2018 and 2022. People aged 20 to 29 consistently experienced a higher rate of new HIV diagnoses.

# Rate of new HIV diagnoses<sup>1</sup> per 100,000 people aged 13 to 29 years in New York City by borough of residence, 2018-2022



The rate of new HIV diagnoses decreased or remained stable in all boroughs among people aged 13 to 29 years between 2018 and 2022. People in the Bronx consistently experienced the highest rate of new HIV diagnoses.

# Rate of new HIV diagnoses<sup>1</sup> per 100,000 people aged 13 to 29 years in New York City by area-based poverty,<sup>2</sup> 2018-2022



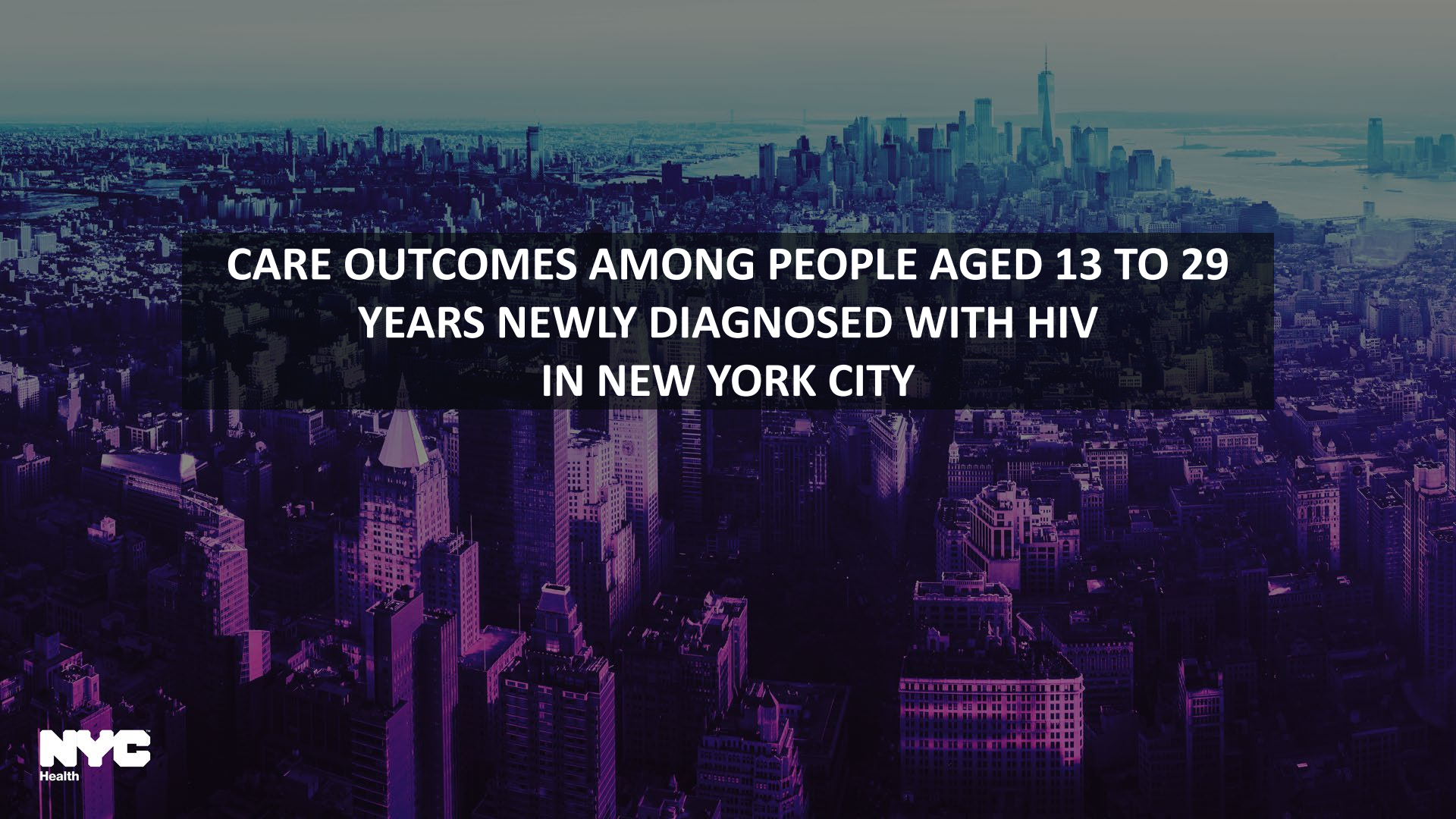
The rate of new HIV diagnoses decreased or remained stable in all area-based poverty groups among people aged 13 to 29 years between 2018 and 2022. People living in areas with high or very high poverty consistently experienced the highest rates of new HIV diagnoses.

<sup>1</sup>Rates calculated using Health Department population estimates, modified from U.S. Census Bureau intercensal population estimates, updated September 2022.

<sup>2</sup>Area-based poverty level is determined by the proportion of residents living below the federal poverty level (FPL) in the NYC ZIP code of residence at diagnosis.

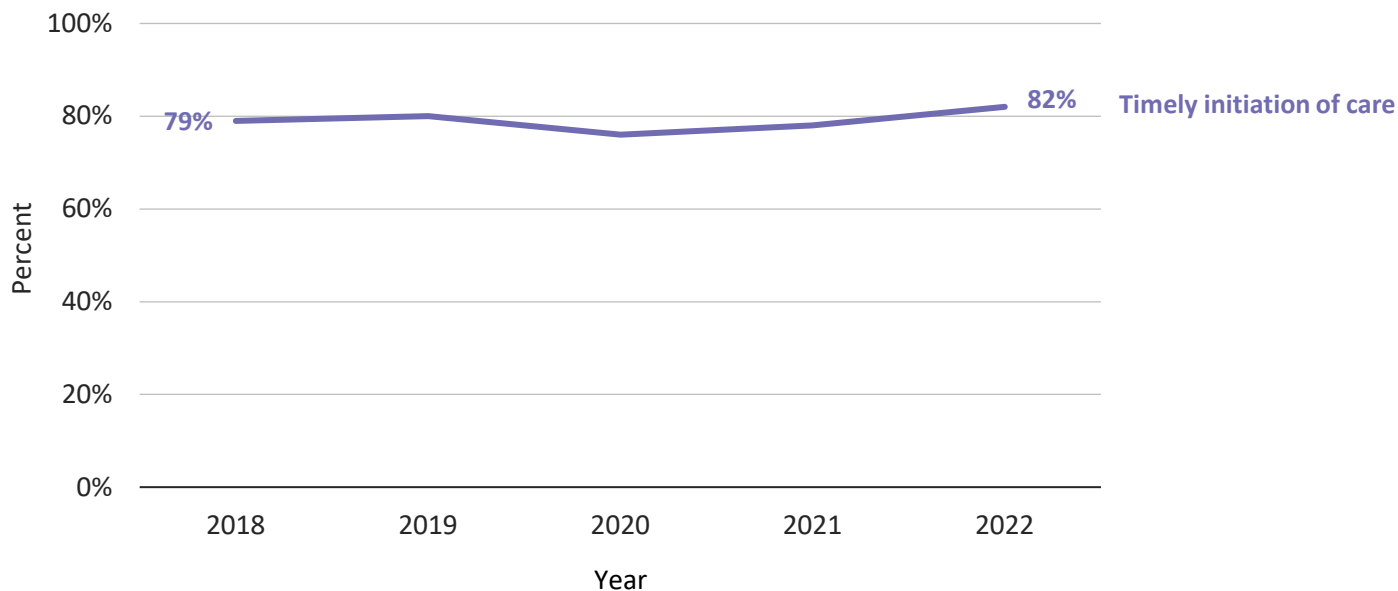
Low poverty=<10% below FPL; Medium poverty=10 to <20% below FPL; High poverty=20 to <30% below FPL; Very high poverty= $\geq$ 30% below FPL.

As reported to the New York City Department of Health and Mental Hygiene by March 31, 2023.



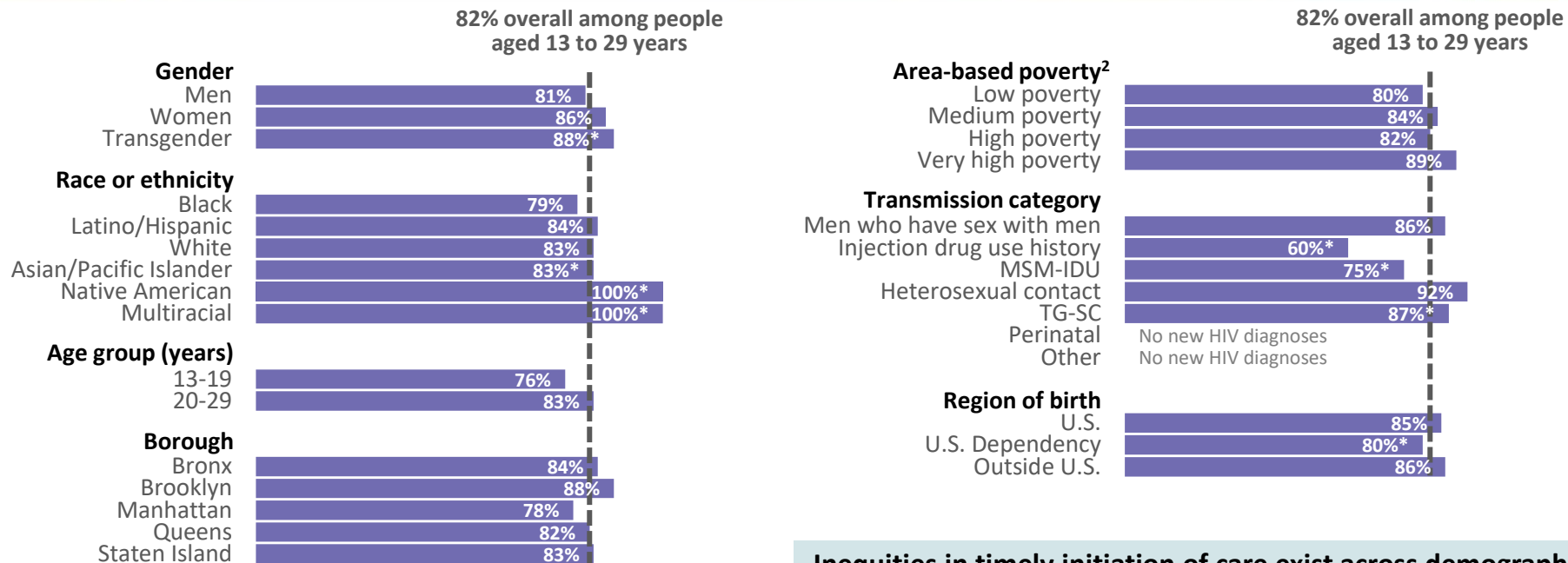
**CARE OUTCOMES AMONG PEOPLE AGED 13 TO 29  
YEARS NEWLY DIAGNOSED WITH HIV  
IN NEW YORK CITY**

# Timely initiation of care<sup>1</sup> among people aged 13 to 29 years newly diagnosed with HIV in New York City, 2018-2022



**Timely initiation of care among people aged 13 to 29 years increased by three percentage points in New York City from 2018 to 2022.**

# Timely initiation of care<sup>1</sup> among people aged 13 to 29 years newly diagnosed with HIV in New York City by demographic groups, 2022



**Inequities in timely initiation of care exist across demographic groups among people aged 13 to 29 years in New York City.**

\*Data should be interpreted with caution because of small population size.

MSM-IDU=Men who have sex with men and inject drugs; TG-SC=Transgender people with sexual contact.

<sup>1</sup>Timely initiation of care is defined as first CD4, viral load, or genotype drawn within 30 days of HIV diagnosis. People diagnosed at death have been excluded.

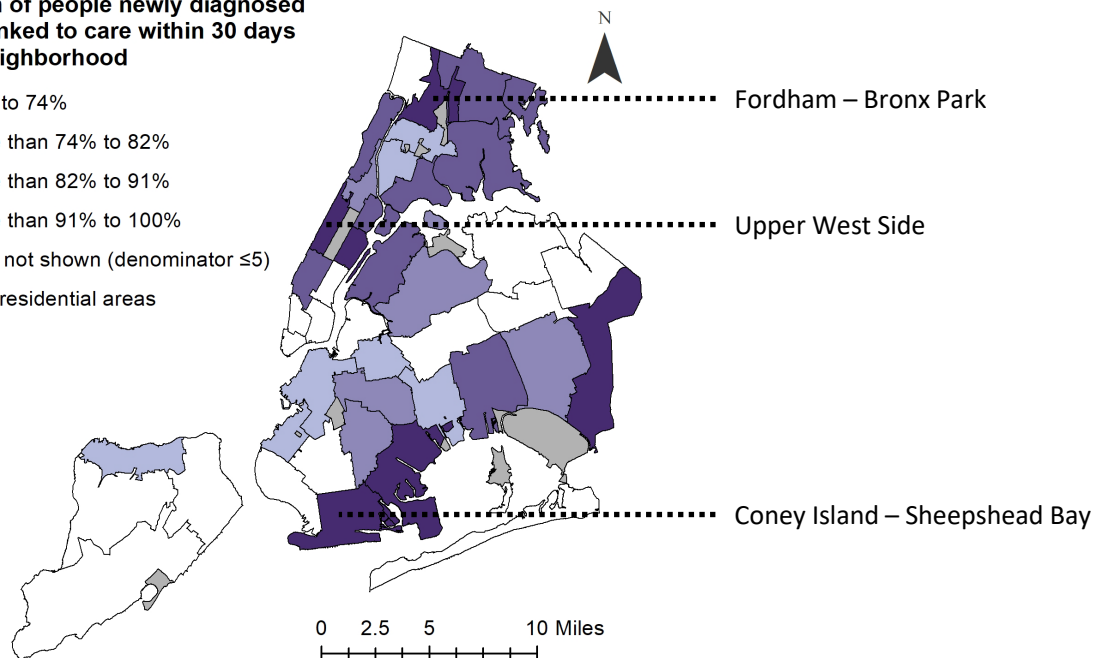
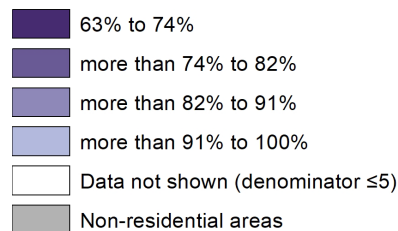
<sup>2</sup>Area-based poverty level is determined by the proportion of residents living below the federal poverty level (FPL) in the NYC ZIP code of residence at diagnosis.

Low poverty=<10% below FPL; Medium poverty=10 to <20% below FPL; High poverty=20 to <30% below FPL; Very high poverty=≥30% below FPL.

As reported to the New York City Department of Health and Mental Hygiene by March 31, 2023.

# Timely initiation of care<sup>1</sup> among people aged 13 to 29 years newly diagnosed with HIV in New York City by United Hospital Fund neighborhood, 2022

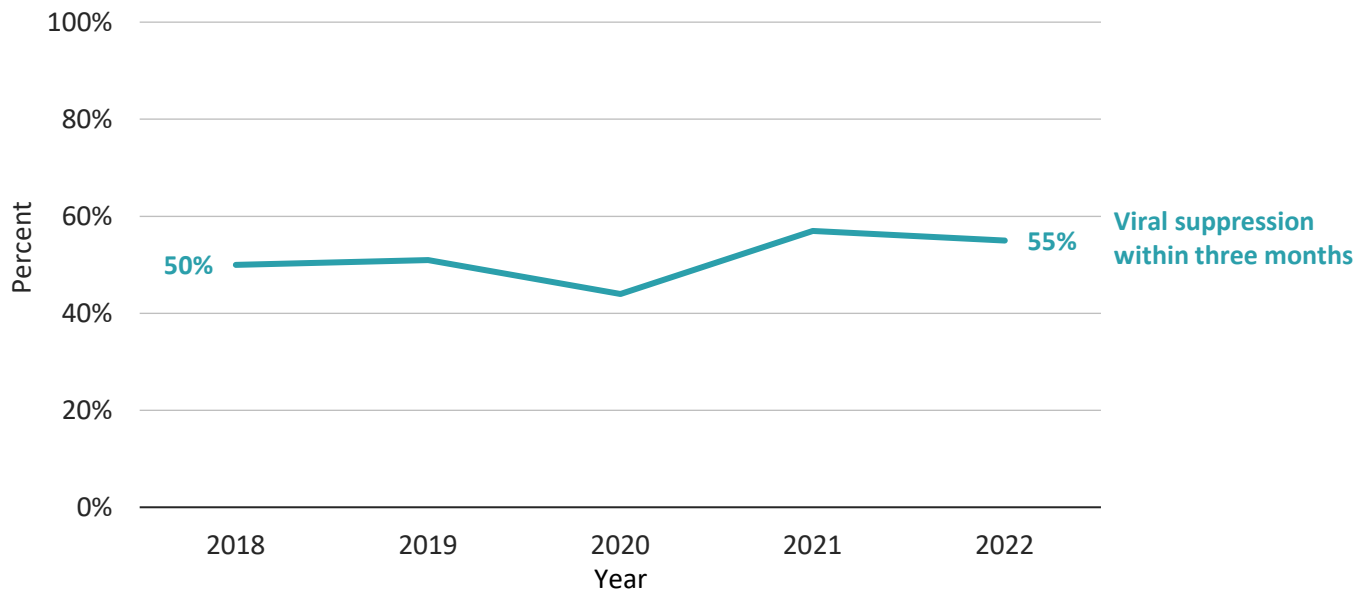
Proportion of people newly diagnosed with HIV linked to care within 30 days by UHF neighborhood



The neighborhoods with the lowest proportions of people aged 13 to 29 years linked to care within 30 days were Coney Island – Sheepshead Bay (63%), Fordham – Bronx Park (69.6%), and Upper West Side (70%).



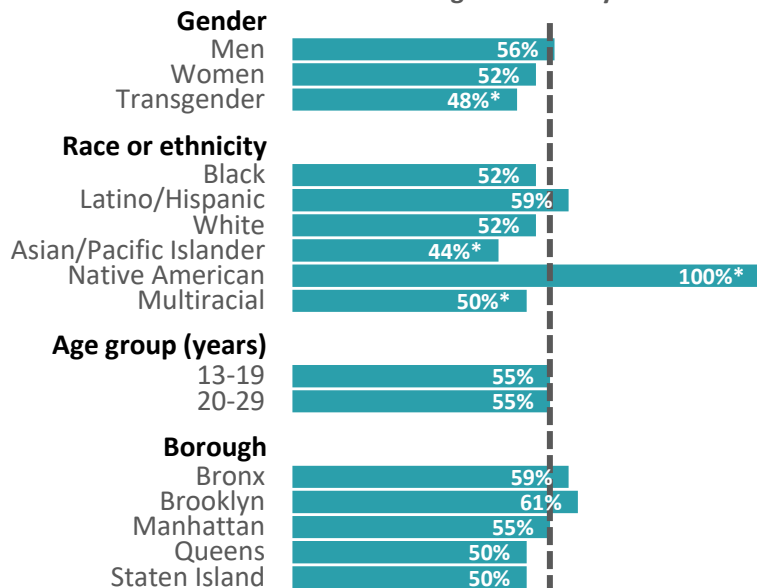
# Viral suppression<sup>1</sup> within three months among people aged 13 to 29 years newly diagnosed with HIV in New York City, 2022



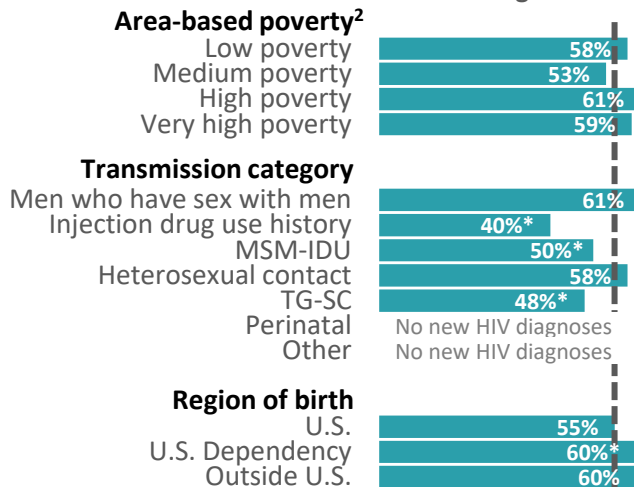
**Viral suppression within three months of an HIV diagnosis among people aged 13 to 29 years increased by five percentage points in New York City from 2018 to 2022.**

# Viral suppression<sup>1</sup> within three months among people aged 13 to 29 years newly diagnosed with HIV in New York City by demographic group, 2022

55% overall among people aged 13 to 29 years



55% overall among people aged 13 to 29 years



**Inequities in viral suppression within three months of an HIV diagnosis among people aged 13 to 29 years exist across demographic groups in New York City.**

\*Data should be interpreted with caution because of small population size.

MSM-IDU=Men who have sex with men and inject drugs; TG-SC=Transgender people with sexual contact.

<sup>1</sup>Viral suppression is defined as an HIV viral load in the calendar year <200 copies/mL within three months of diagnosis. People diagnosed at death have been excluded.

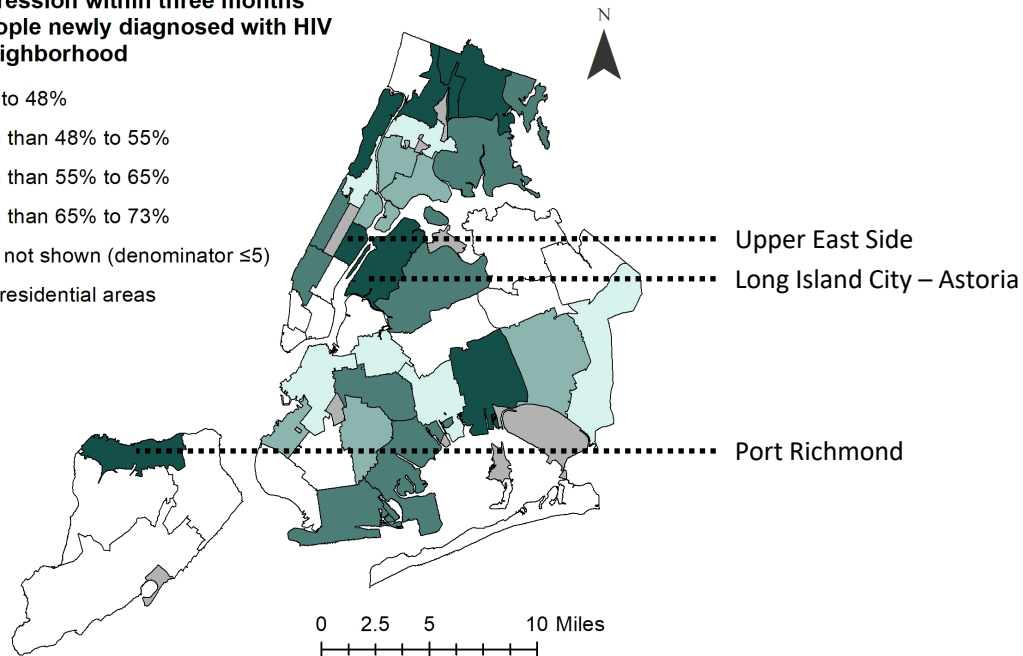
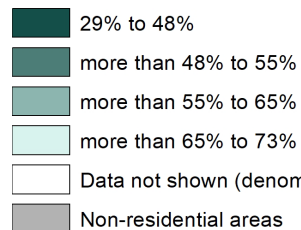
<sup>2</sup>Area-based poverty level is determined by the proportion of residents living below the federal poverty level (FPL) in the NYC ZIP code of residence at diagnosis.

Low poverty=<10% below FPL; Medium poverty=10 to <20% below FPL; High poverty=20 to <30% below FPL; Very high poverty>=30% below FPL.

As reported to the New York City Department of Health and Mental Hygiene by March 31, 2023.

# Viral suppression<sup>1</sup> within three months among people aged 13 to 29 years newly diagnosed with HIV in New York City by United Hospital Fund neighborhood, 2022

Viral suppression within three months among people newly diagnosed with HIV by UHF neighborhood

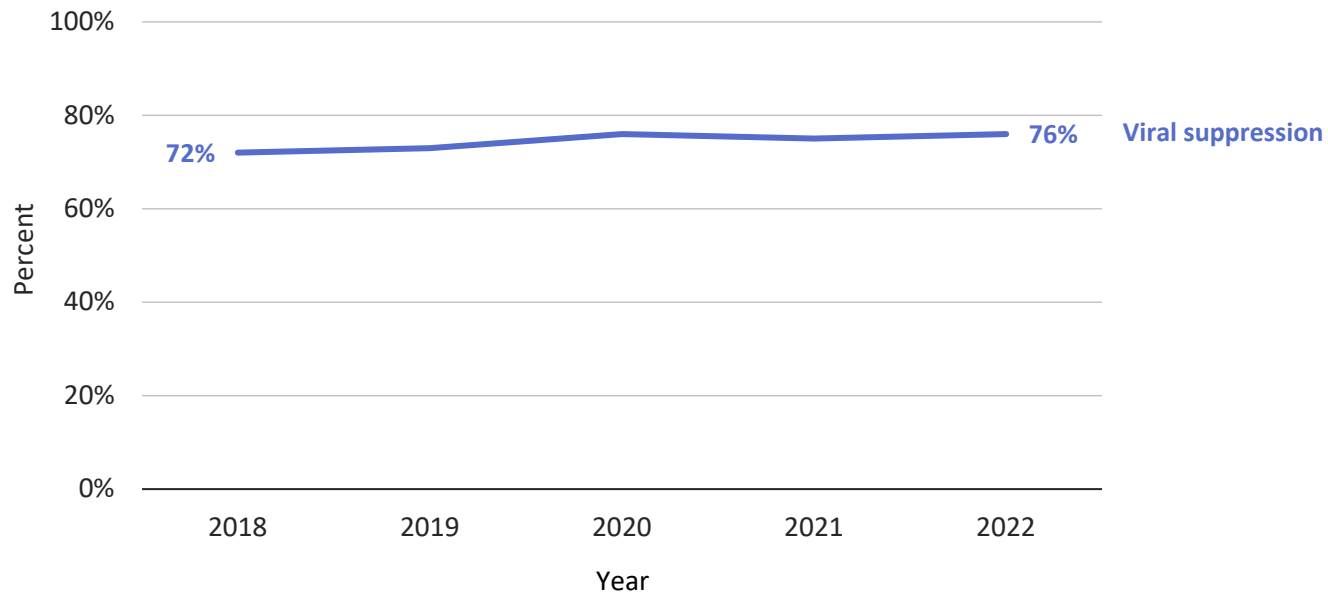


The neighborhoods with the lowest proportions of people aged 13 to 29 years virally suppressed within three months of an HIV diagnosis were Upper East Side (29%), Long Island City – Astoria (42%), and Port Richmond (43%).



**CARE OUTCOMES AMONG PEOPLE AGED 13 TO 29  
YEARS WITH HIV IN NEW YORK CITY**

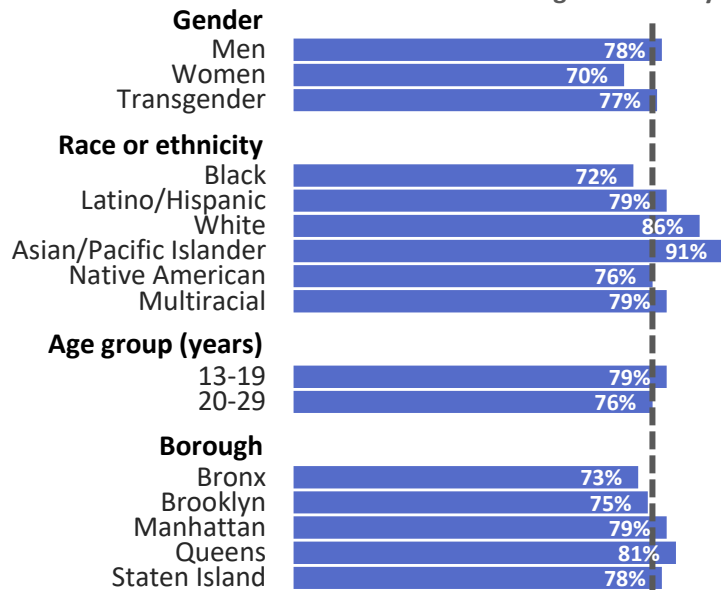
# Viral suppression<sup>1</sup> among people aged 13 to 29 years with diagnosed HIV in New York City, 2018-2022



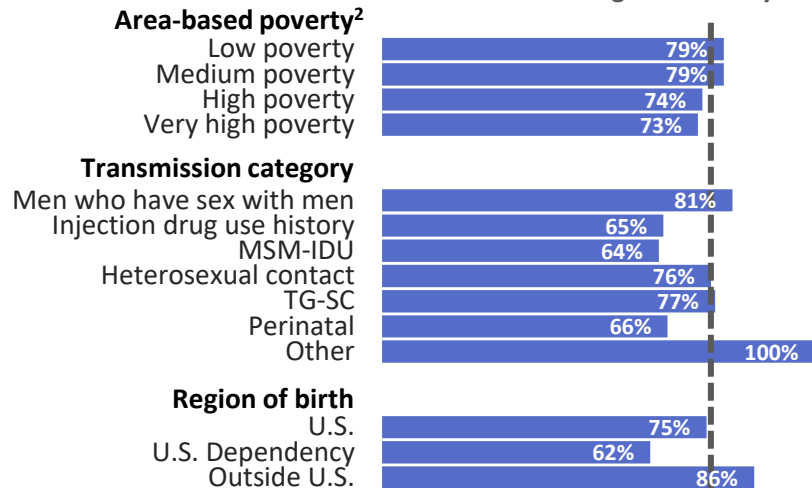
**Viral suppression among people aged 13 to 29 years increased by four percentage points in New York City from 2018 to 2022.**

# Viral suppression<sup>1</sup> among people aged 13 to 29 years with diagnosed HIV in New York City by demographic group, 2022

76% overall among people aged 13 to 29 years



76% overall among people aged 13 to 29 years



**Inequities in viral suppression exist across demographic groups among people aged 13 to 29 years in New York City.**

MSM-IDU=Men who have sex with men and inject drugs; TG-SC=Transgender people with sexual contact.

<sup>1</sup>Viral suppression is defined as the last HIV viral load in the calendar year <200 copies/mL. People diagnosed at death have been excluded.

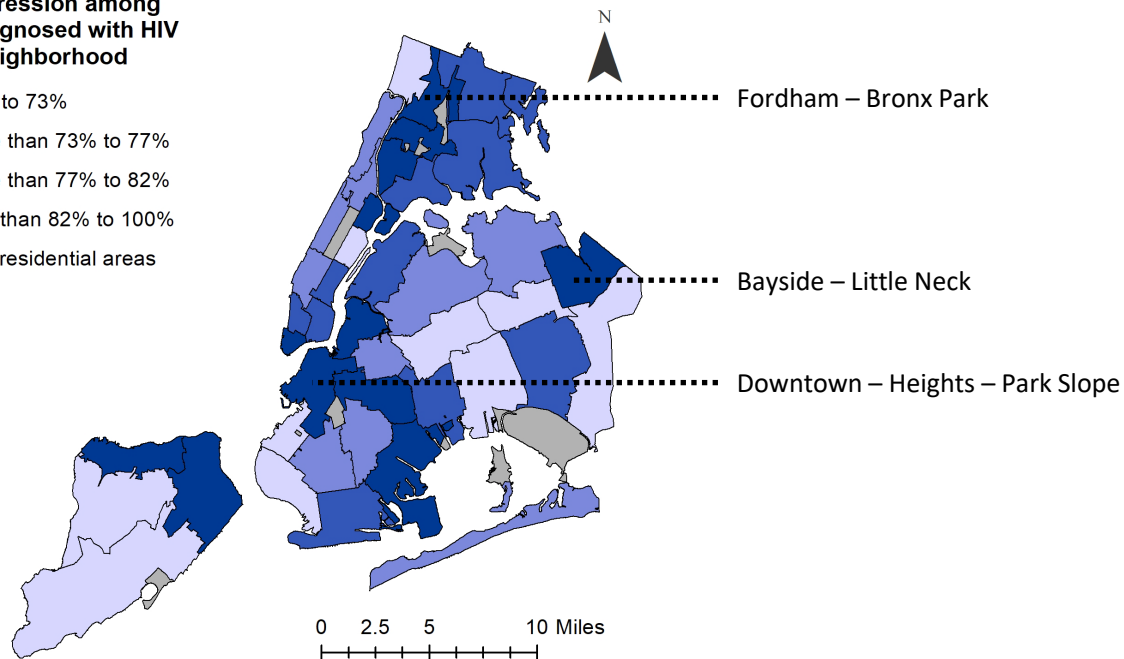
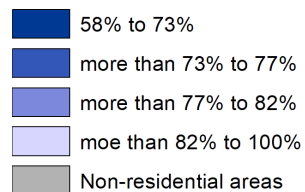
<sup>2</sup>Area-based poverty level is determined by the proportion of residents living below the federal poverty level (FPL) in the NYC ZIP code of residence at diagnosis.

Low poverty=<10% below FPL; Medium poverty=10 to <20% below FPL; High poverty=20 to <30% below FPL; Very high poverty>=30% below FPL.

As reported to the New York City Department of Health and Mental Hygiene by March 31, 2023.

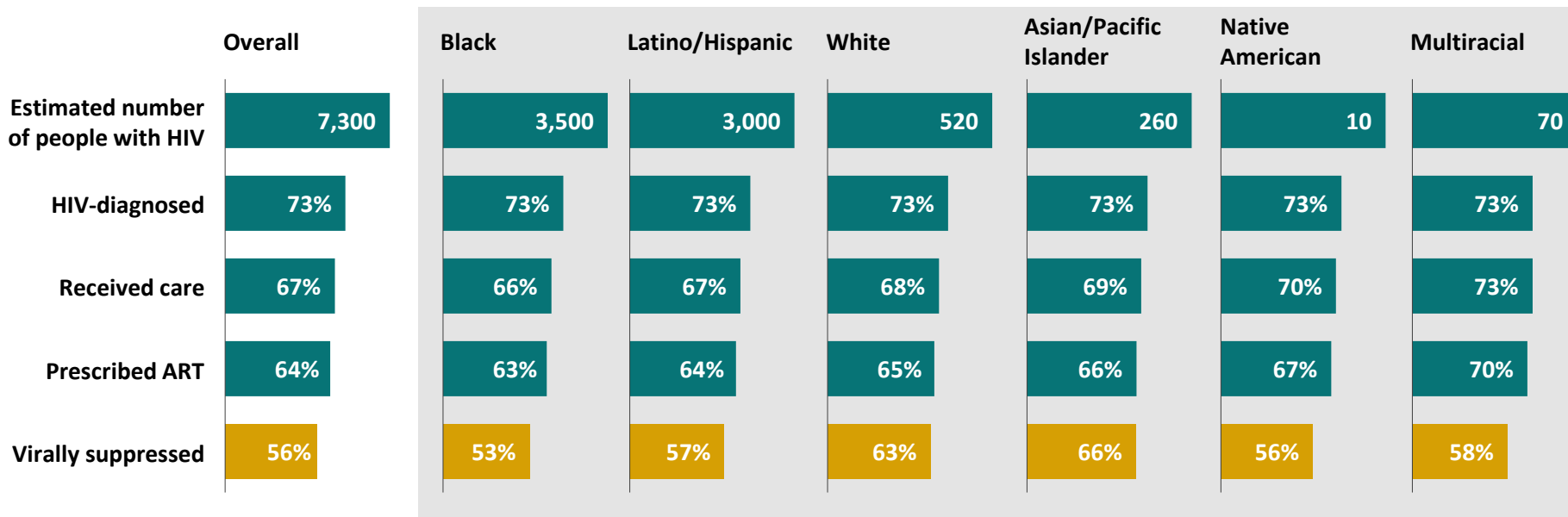
# Viral suppression<sup>1</sup> among people aged 13 to 29 years with diagnosed HIV in New York City by United Hospital Fund neighborhood, 2022

Viral suppression among people diagnosed with HIV by UHF neighborhood



The neighborhoods with the lowest proportions of people virally suppressed among people aged 13 to 29 years were Bayside – Little Neck (58%), Fordham – Bronx Park (68%), and Downtown – Heights – Park Slope (69%).

# Proportion of people aged 13 to 29 years with HIV in stages of the HIV care continuum<sup>1,2</sup> in New York City overall and by race or ethnicity,<sup>3</sup> 2022



Of approximately 7,300 people aged 13 to 29 years with HIV in New York City in 2022, 56% had a suppressed viral load. There were inequities in the HIV care continuum among people aged 13 to 29 years by race or ethnicity in 2022 in New York City.

<sup>1</sup>The HIV care continuum is a series of key stages for people with HIV. The denominator for each displayed proportion is the estimated number of people with HIV within a given group.

<sup>2</sup>Proportions in the care continuum may not align between stages due to the use of multiple data sources in calculations (e.g., proportion prescribed ART may be lower than the proportion virally suppressed)

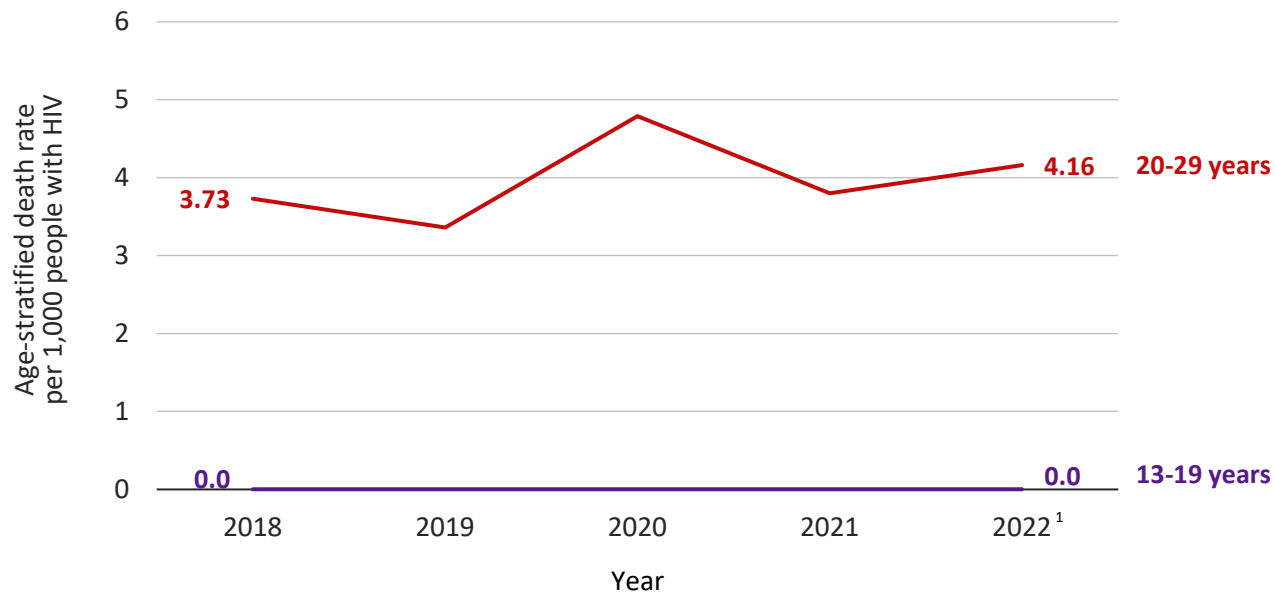
<sup>3</sup>The estimated number of people with HIV by race or ethnicity may not sum to the overall value due to rounding and the use of specific estimated proportions of people with HIV who have been diagnosed within each race or ethnicity group.

For definitions of the stages of the continuum of care, see Technical Notes.

As reported to the New York City Department of Health and Mental Hygiene by March 31, 2023.

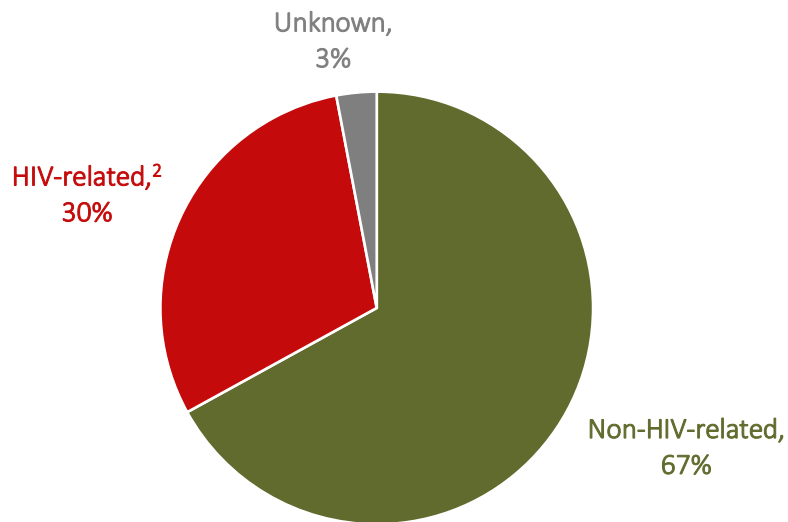


# Death rate per 1,000 people aged 13 to 29 years with HIV in New York City by age group, 2018-2022



The death rates by age group among people aged 13 to 29 years remained relatively flat between 2018 and 2022.

# Proportion of deaths among people aged 13 to 29 years with HIV in New York City by cause of death, 2021<sup>1</sup>



**In 2021, 67% of deaths among people with HIV aged 13 to 29 years were due to non-HIV-related causes. Among these, the top causes were accidents (25%) and COVID-19 (15%).**

<sup>1</sup>Cause of death data are not yet available for 2022.

<sup>2</sup>ICD10 codes B20-B24 were used to denote HIV-related deaths. For technical notes on cause of death by the NYC DOHMH's Office of Vital Statistics see:

<https://www1.nyc.gov/assets/doh/downloads/pdf/vs/2014sum.pdf>.

As reported to the New York City Department of Health and Mental Hygiene by March 31, 2023.

## Appendix: How to find our data

- **Our program publishes annual surveillance reports, slide sets, and statistics tables:**
  - Annual reports: <https://www.nyc.gov/site/doh/data/data-sets/hiv-aids-surveillance-and-epidemiology-reports.page>
  - Slide sets: <https://www.nyc.gov/site/doh/data/data-sets/hiv-aids-surveillance-and-epidemiology-reports.page>
  - Statistics tables: <https://www.nyc.gov/site/doh/data/data-sets/hiv-aids-surveillance-and-epidemiology-reports.page>
- **Other resources:**
  - HIV Care Status Reports (CSR) system: <https://www.nyc.gov/site/doh/health/health-topics/aids-hiv-care-status-reports-system.page>
  - HIV Care Continuum Dashboards (CCDs): <https://www.nyc.gov/site/doh/health/health-topics/care-continuum-dashboard.page>
- **For surveillance data requests, email: [HIVReport@health.nyc.gov](mailto:HIVReport@health.nyc.gov)**
  - Please allow a minimum of two weeks for requests to be completed

# Appendix: Definitions and statistical notes

## Definitions

- **HIV diagnoses** include diagnoses of HIV and HIV concurrent with AIDS (AIDS diagnosed within 31 days of HIV), unless otherwise specified.
- **New HIV diagnoses** include individuals diagnosed in NYC during the reporting period and reported in NYC.
- **Death rates** refer to deaths from all causes, unless otherwise specified.
- **People with HIV (PWH)** refers to people with HIV during the reporting period
- HIV surveillance collects information about individuals' current **gender identity**, when available. This report displays the following gender categories: men, women, transgender women, and transgender men. People whose current gender identity differs from their sex assigned at birth are considered transgender. Classifying transgender people in surveillance requires accurate collection of both sex assigned at birth and current gender identity. Sex and gender information are collected from people's self-reports, their diagnosing providers or medical chart reviews. This information may or may not reflect self-identification. Transgender identity has been collected routinely since 2005 for newly reported cases. Reported numbers of HIV diagnoses among transgender people and transgender people with HIV are likely to be underestimates. For more information, see the "HIV Among People Identified as Transgender in New York City" surveillance slide set available at [nyc.gov/assets/doh/downloads/pdf/dires/hiv-in-transgender-persons.pdf](http://nyc.gov/assets/doh/downloads/pdf/dires/hiv-in-transgender-persons.pdf). NYC HIV surveillance collects information on other gender identity categories, including "Non-binary/Gender non-conforming." In this report, data for these individuals at the time of publication are displayed by sex assigned at birth.
- **Transmission category** includes people with known or identified transmission category, except when an unknown category is presented. Transmission category information is collected from people's self-report, their diagnosing provider, or medical chart review. "Heterosexual contact" includes people who had heterosexual sex with a person they know to have HIV, a person who has injected drugs or a person who has received blood products. For women only, it also includes history of sex work, multiple sex partners, sexually transmitted infection, crack/cocaine use, sex with a bisexual man, probable heterosexual transmission as noted in a medical chart, or sex with a man and negative history of injection drug use. "Transgender people with sexual contact" includes people identified as transgender who have reported sexual contact and have a negative history of injection drug use. "Other" includes people who received treatment for hemophilia, people who received a transfusion or transplant, people with other health care-associated transmission and children with non-perinatal transmission category.

## Statistical notes

- United Hospital Fund (UHF) boundaries in maps were updated for data released in 2010 and onward. Non-residential zones are indicated, and Rikers Island is classified with West Queens.

# Appendix: Technical notes on the NYC HIV care continuum

- **People with HIV** is calculated as the number of people with diagnosed HIV divided by the estimated proportion of people with HIV who had been diagnosed, based on a CD4 depletion model.
  - Source: NYC HIV Surveillance Registry. Method: Song R, et al. Using CD4 Data to Estimate HIV Incidence, Prevalence, and Percent of Undiagnosed Infections in the United States. *J Acquir Immune Defic Syndr*. 2017 Jan 1;74(1):3-9.
- **HIV-diagnosed** is calculated as the number of people with HIV retained in care plus the estimated number of people with HIV who were out of care, based on a statistical weighting method. This estimated number aims to account for migration out of NYC, and therefore is different from the total number of people diagnosed and reported with HIV in NYC.
  - Source: NYC HIV Surveillance Registry. Method: Xia Q, et al. Proportions of Patients With HIV Retained in Care and Virally Suppressed in New York City and the United States. *JAIDS* 2015;68(3):351-358.
- **Received care** is defined as people with HIV with  $\geq 1$  viral load or CD4 count or CD4 percent drawn in the calendar year and reported to NYC HIV surveillance.
  - Source: NYC HIV Surveillance Registry.
- **Prescribed ART** is calculated as the number of people with HIV retained in care multiplied by the estimated proportion of people with HIV prescribed ART in the previous 12 months, based on the proportion of NYC Medical Monitoring Project participants whose medical record included documentation of ART prescription.
  - Source: NYC HIV Surveillance Registry and NYC Medical Monitoring Project.
- **Virally suppressed** is calculated as people with HIV in care with a most recent viral load measurement in the calendar year of  $< 200$  copies/mL, plus the estimated number of out-of-care people with HIV in the calendar year with a viral load of  $< 200$  copies/mL, based on a statistical weighting method.
  - Source: NYC HIV Surveillance Registry. Method: Xia Q, et al. Proportions of Patients With HIV Retained in Care and Virally Suppressed in New York City and the United States. *JAIDS* 2015;68(3):351-358.