

# HIV in Staten Island, 2022

HIV Epidemiology Program

New York City Department of Health and Mental Hygiene

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<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.*

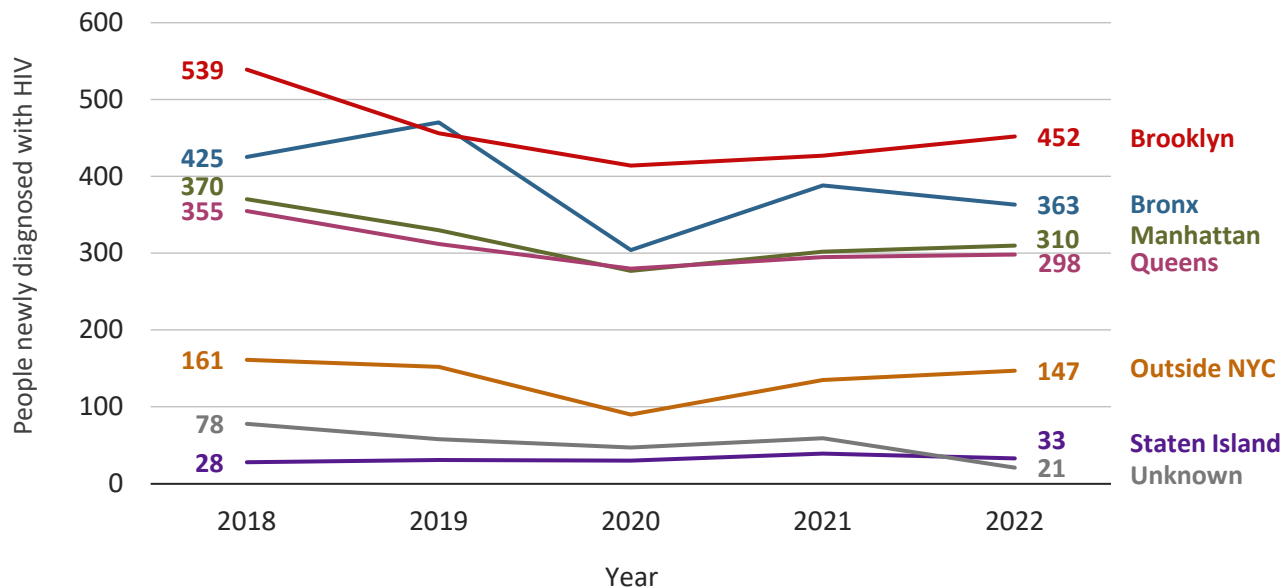
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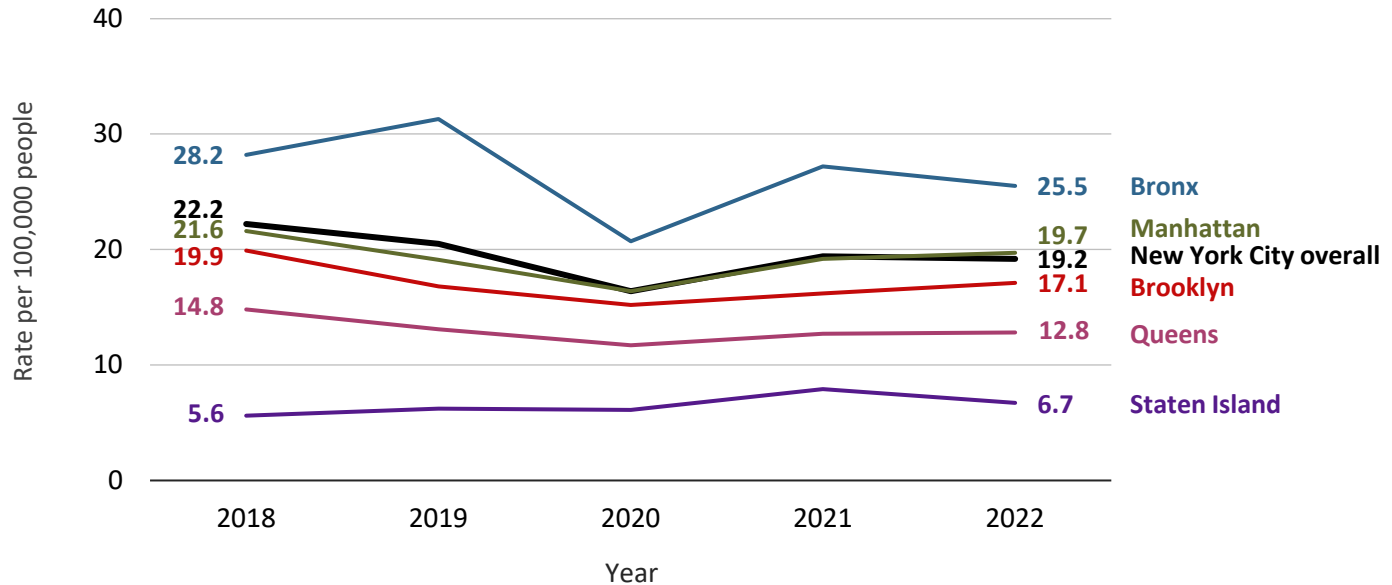
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# Number of new HIV diagnoses in New York City by borough of residence, 2018-2022



The number of new HIV diagnoses decreased or remained stable in all boroughs of residence between 2018 and 2022. Brooklyn and the Bronx consistently experienced the highest number of new HIV diagnoses, representing a combined 50% of new diagnoses in 2022.

# Rate of new HIV diagnoses<sup>1</sup> per 100,000 people in New York City by borough of residence and New York City overall, 2018-2022

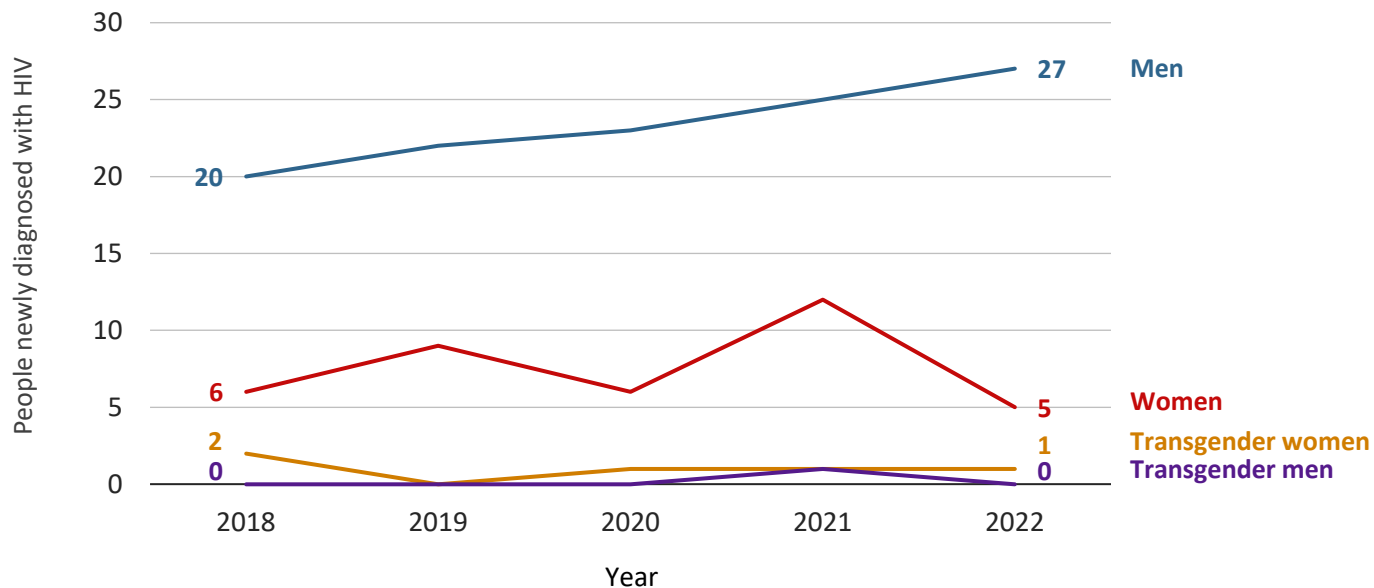


The rate of new HIV diagnoses decreased or remained stable in all boroughs between 2018 and 2022. People in the Bronx consistently experienced the highest rate of new HIV diagnoses. People in Staten Island experienced the lowest rate of new HIV diagnoses.

# Basic statistics of HIV in Staten Island, 2022

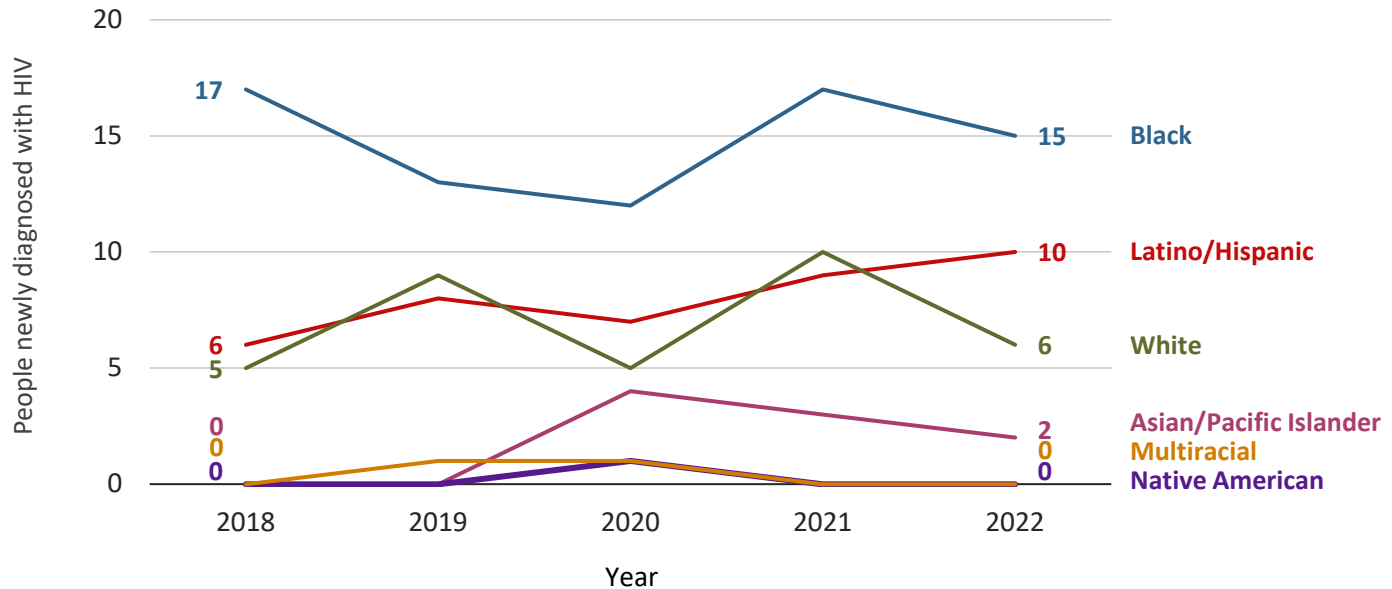
- **33 people newly diagnosed with HIV**
  - Including 7 people concurrently diagnosed with AIDS (21.2% of diagnoses)
- **17 people newly diagnosed with AIDS**
- **1,900 people with HIV<sup>1</sup>**
- **41 deaths among people with HIV**
  - 8.0 deaths per 1,000 people with HIV<sup>2</sup>

# Number of new HIV diagnoses in Staten Island by gender, 2018-2022



Between 2018 and 2022, the number of new HIV diagnoses among men increased by 35%. The number of new HIV diagnoses decreased or remained stable in all other gender groups. Men consistently experienced the highest number of new HIV diagnoses in Staten Island, representing 82% of new diagnoses in 2022, higher than the citywide proportion of 78%.

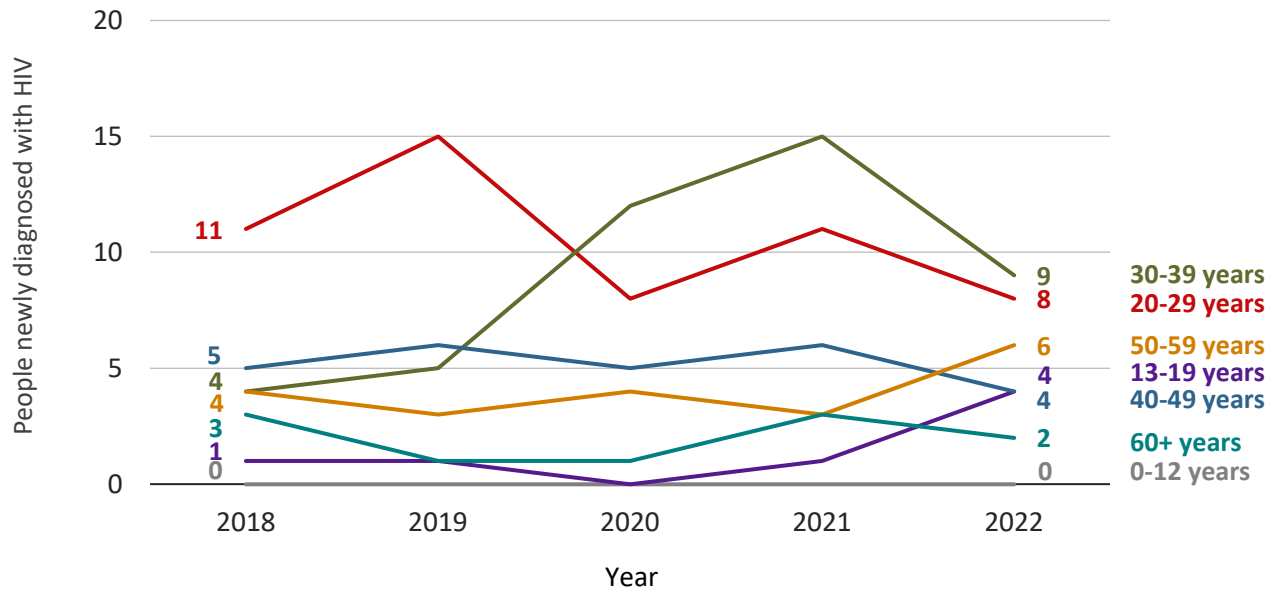
# Number of new HIV diagnoses in Staten Island by race or ethnicity, 2018-2022



Between 2018 and 2022, the number of new HIV diagnoses among Latino/Hispanic people increased by 67%. The number of new HIV diagnoses decreased or remained stable in all other race or ethnicity groups. Black people consistently experienced the highest number of new HIV diagnoses in Staten Island, representing 45% of new diagnoses in 2022, similar to the citywide proportion of 43%.



# Number of new HIV diagnoses in Staten Island by age group, 2018-2022



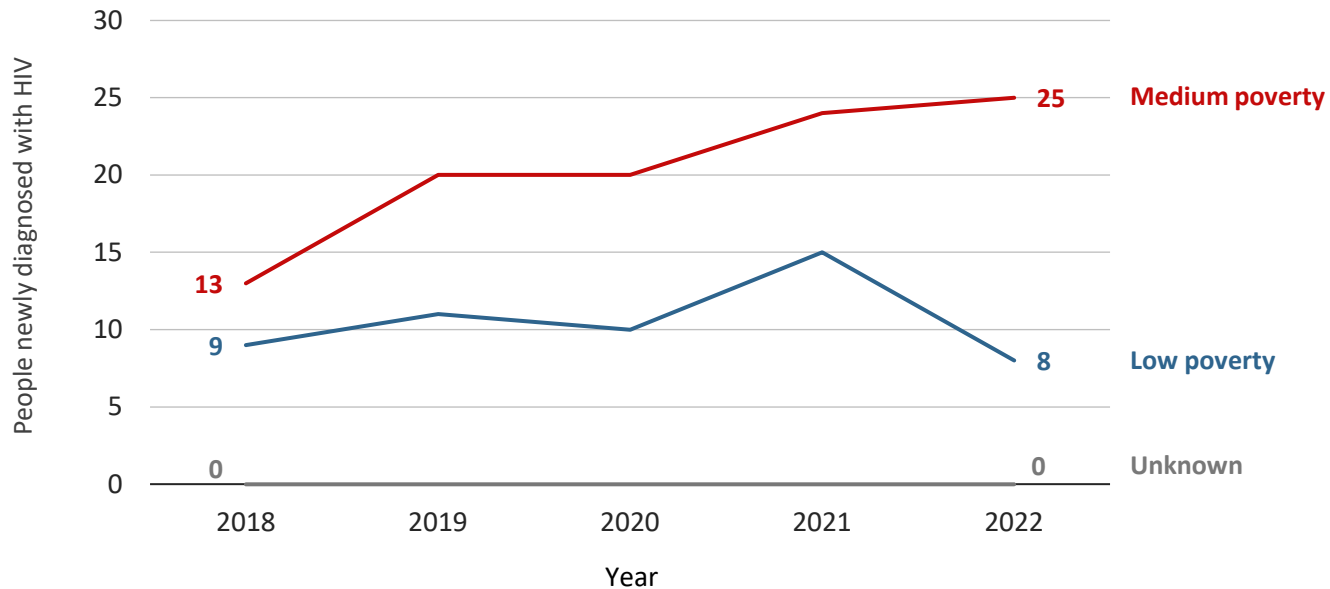
Between 2018 and 2022, the number of new HIV diagnoses among people aged 30 to 39 years increased by 125%. The number of new HIV diagnoses decreased or remained stable in all other age groups between 2018 and 2022. People aged 20 to 39 years consistently experienced the highest number of new HIV diagnoses in Staten Island, representing a combined 52% of new diagnoses in 2022, lower than the citywide proportion of 66%.

# Number of new HIV diagnoses in Staten Island by race or ethnicity and age group, 2022

	Black	Latino/Hispanic	White	Asian/ Pacific Islander	Native American	Multiracial
0-12	0	0	0	0	0	0
13-19	2	2	0	0	0	0
20-29	5	2	1	0	0	0
30-39	2	4	3	0	0	0
40-49	1	1	1	1	0	0
50-59	4	0	1	1	0	0
60+	1	1	0	0	0	0

Black people aged 20 to 29 years or 50 to 59 years and Latino/Hispanic people aged 30 to 39 years in Staten Island experienced the highest number of new HIV diagnoses, representing a combined 39% of new diagnoses in 2022.

# Number of new HIV diagnoses in Staten Island by area-based poverty,<sup>1,2</sup> 2018-2022



**Between 2018 and 2022, the number of new HIV diagnoses among people living in areas with medium poverty increased by 92%. The number of new HIV diagnoses decreased or remained stable in all other area-based poverty groups. Areas with medium poverty consistently experienced the highest number of new HIV diagnoses in Staten Island, representing a 76% of new diagnoses in 2022.**

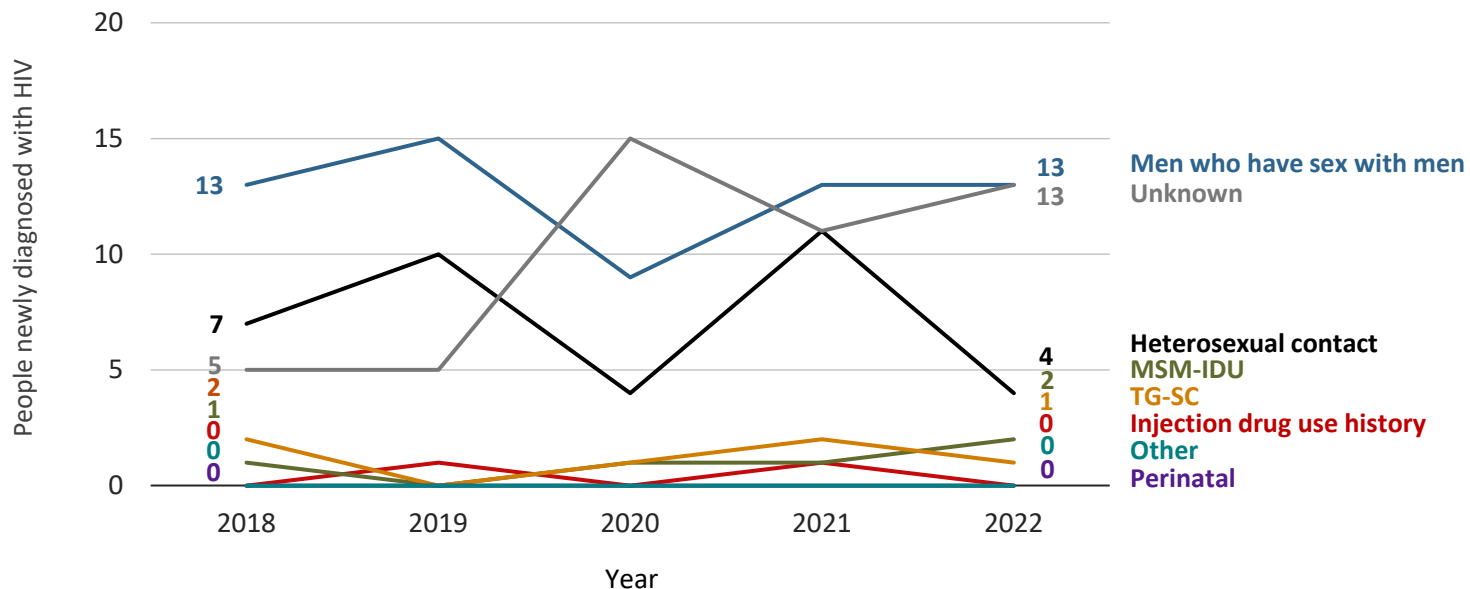
<sup>1</sup>Area-based poverty level is determined by the proportion of residents living below the federal poverty level (FPL) in the NYC ZIP code of residence at diagnosis.

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.

<sup>2</sup>Staten Island does not have neighborhoods with high or very high area-based poverty.

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

# Number of new HIV diagnoses in Staten Island by transmission category, 2018-2022



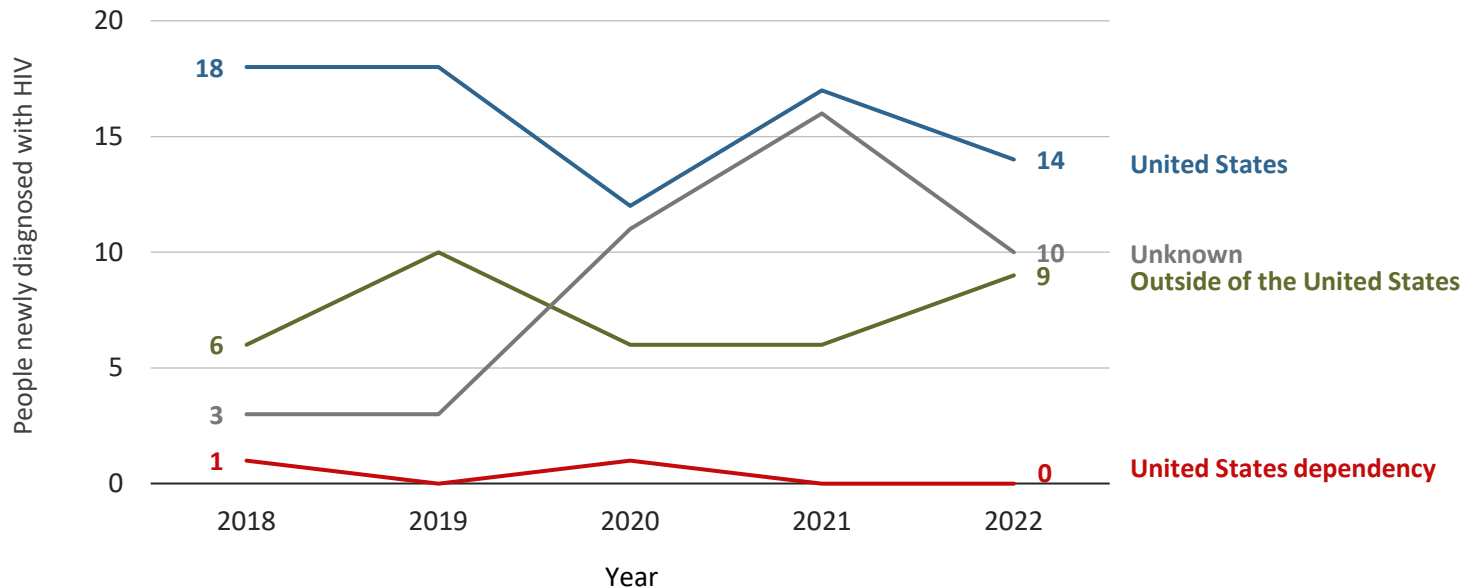
Between 2018 and 2022, there was a 160% increase in people newly diagnosed with HIV with an unknown transmission category.<sup>1</sup> The number of new HIV diagnoses decreased or remained stable for all other transmission categories. Excluding 2020, men who have sex with men consistently experienced the highest number of new HIV diagnoses in Staten Island, representing 39% of new diagnoses in 2022, lower than the citywide proportion of 49%.



MSM-IDU=men who have sex with men with an injection drug use history; TG-SC=transgender people with sexual contact.

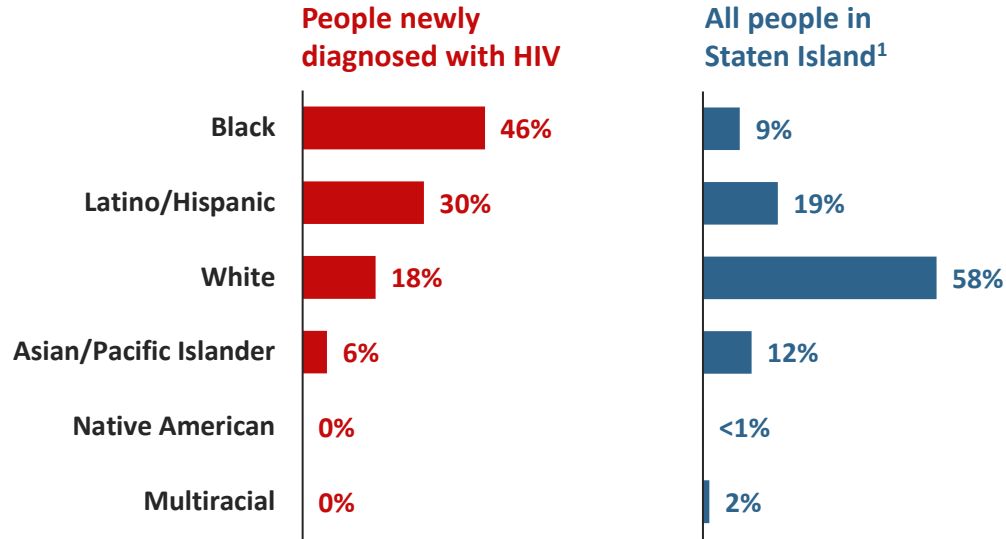
<sup>1</sup>The number of people newly diagnosed with HIV with an unknown transmission category increased due to changes in access to medical records after the emergence of COVID-19 in New York City. As reported to the New York City Department of Health and Mental Hygiene by March 31, 2023.

# Number of new HIV diagnoses in Staten Island by place of birth, 2018-2022



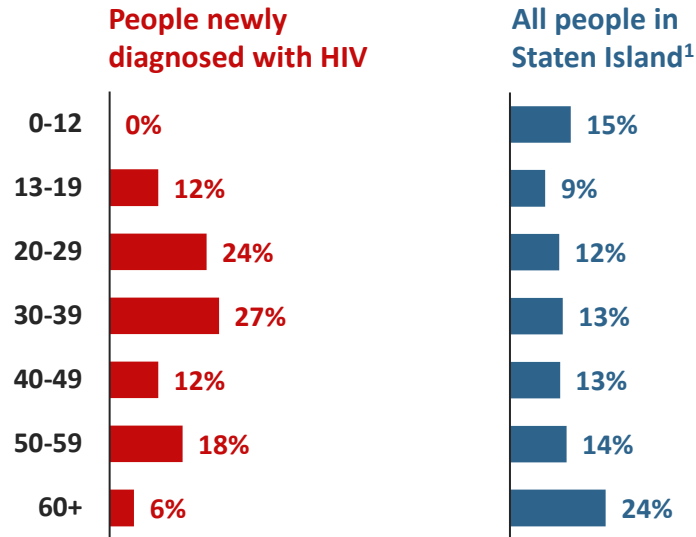
Between 2018 and 2022, there was a 233% increase in people newly diagnosed with HIV with an unknown place of birth.<sup>1</sup> The number of new HIV diagnoses decreased or remained stable for all other places of birth. People born in the United States consistently experienced the highest number of new HIV diagnoses in Staten Island, representing 42% of new diagnoses in 2022, similar to the citywide proportion of 43%.

# Proportion of people newly diagnosed with HIV and all people<sup>1</sup> in Staten Island by race or ethnicity, 2022



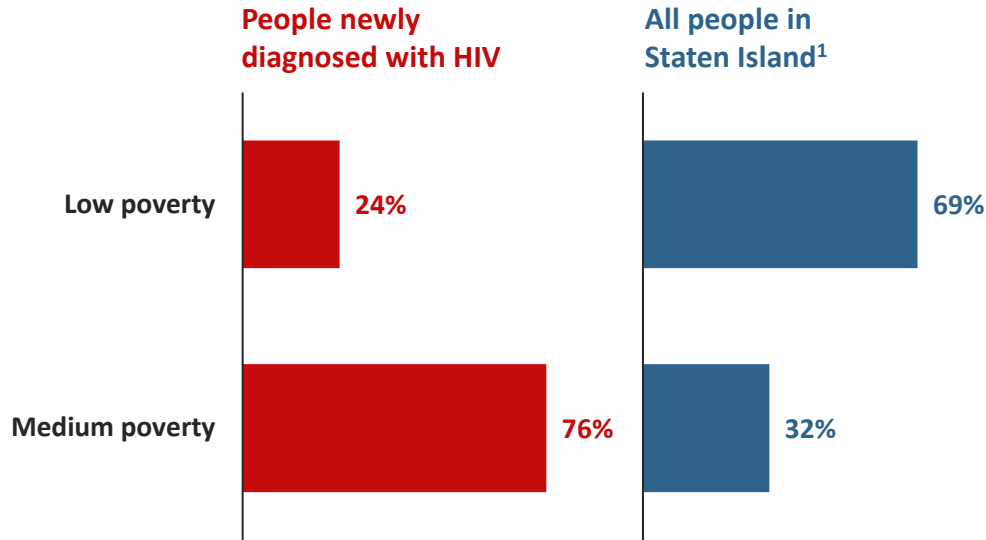
The proportion of new HIV diagnoses among Black and Latino/Hispanic people is higher than their respective proportions among all people in Staten Island.

# Proportion of people newly diagnosed with HIV and all people<sup>1</sup> in Staten Island by age group, 2022



The proportion of new HIV diagnoses among people aged 20 to 39 years is double their respective proportions among all people in Staten Island.

# Proportion of people newly diagnosed with HIV and all people<sup>1</sup> in Staten Island by area-based poverty,<sup>2,3</sup> 2022



**The proportion of new HIV diagnoses among people in areas with medium poverty is higher than the respective proportion among all people in Staten Island.**

<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.

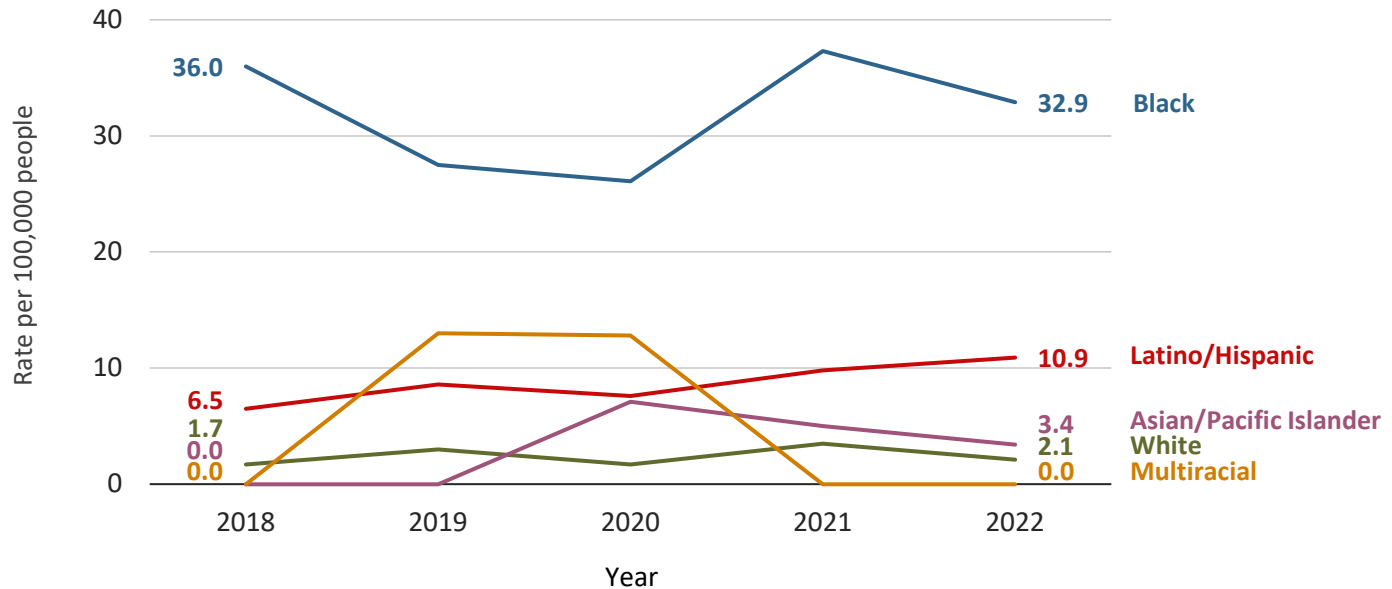
Low poverty=<10% below FPL; Medium poverty=10 to <20% below FPL; High poverty=20 to <30% below FPL; Very high poverty= $\geq$ 30% below FPL.

<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 in Staten Island by race or ethnicity,<sup>2</sup> 2018-2022

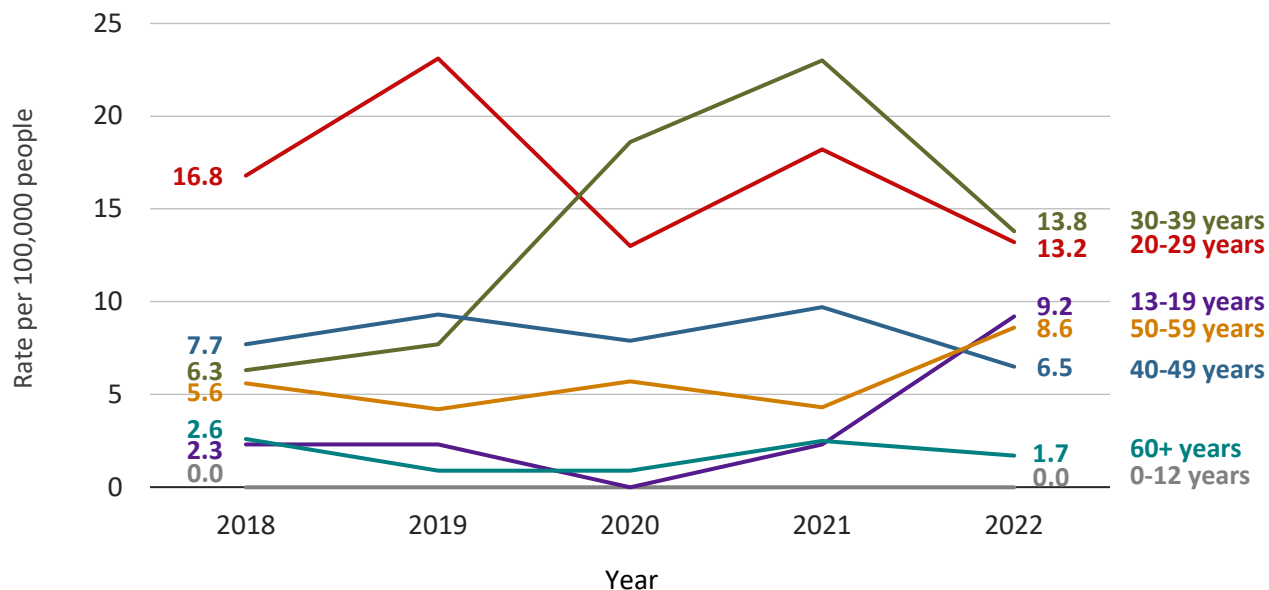


Between 2018 and 2022, the rate of new HIV diagnoses increased 67% among Latino/Hispanic people; counts remain low, the rates should be interpreted with caution. The rate decreased or remained relatively stable in all other race or ethnicity groups between 2018 and 2022. Black people consistently experienced the highest rate of new HIV diagnoses in Staten Island.

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

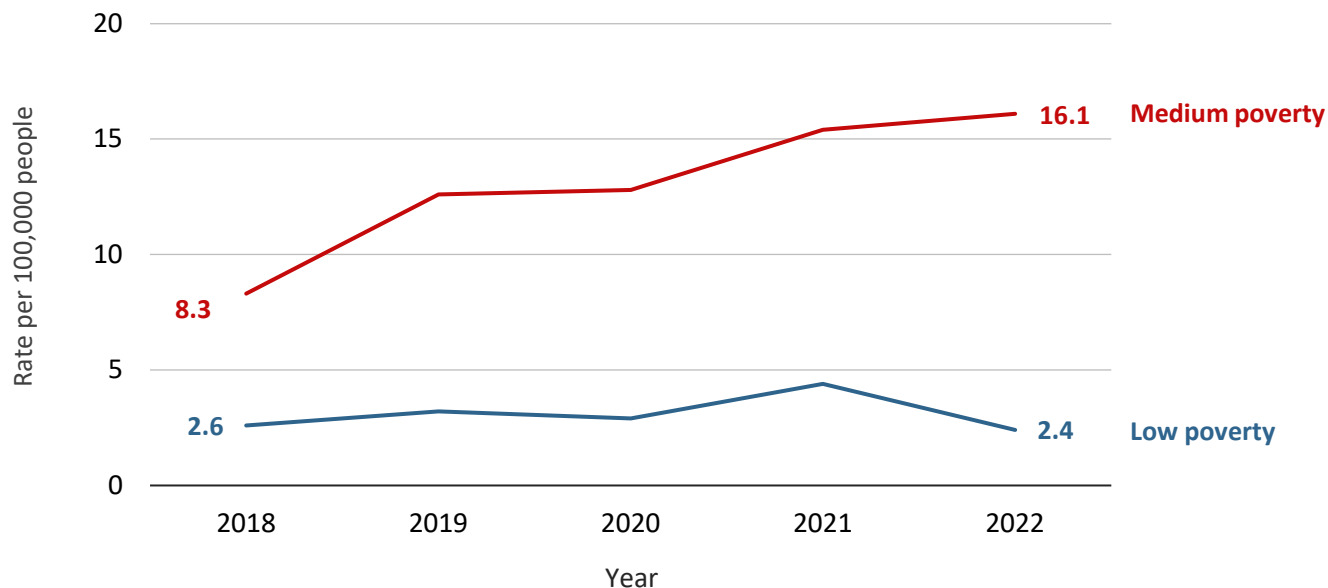
<sup>2</sup>Data for Native American people in Staten Island are suppressed due to unstable rates. Please see slide on number of new HIV diagnoses by race or ethnicity for data on Native American people. As reported to the New York City Department of Health and Mental Hygiene by March 31, 2023.

# Rate of new HIV diagnoses<sup>1</sup> per 100,000 people in Staten Island by age group, 2018-2022



Between 2018 and 2022, the rate of new HIV diagnoses increased 119% among people aged 30 to 39 years and 300% among people aged 13 to 19 years, with nine and four people newly diagnosed in 2022, respectively; counts remain low, the rates should be interpreted with caution. The rate decreased or remained relatively stable in all other age groups. People aged 20 to 39 years consistently experienced the highest rates of new HIV diagnoses in Staten Island.

# Rate of new HIV diagnoses<sup>1</sup> per 100,000 people in Staten Island by area-based poverty,<sup>2,3</sup> 2018-2022



**Between 2018 and 2022, the rate of new HIV diagnoses increased 94% among people living in areas with medium poverty. The rate remained relatively stable in low poverty neighborhoods. People living in medium poverty neighborhoods consistently experienced a higher rate of new HIV diagnoses in Staten Island.**

<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.

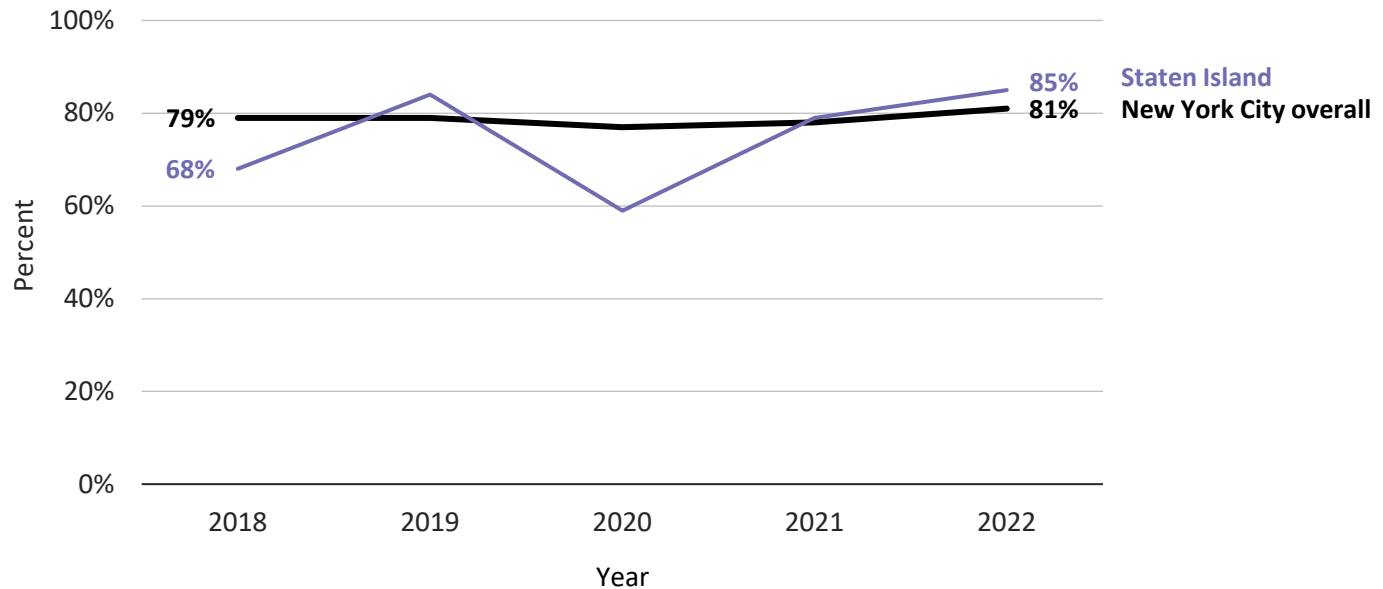
<sup>3</sup>Staten Island does not have neighborhoods with high or very high area-based poverty.

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



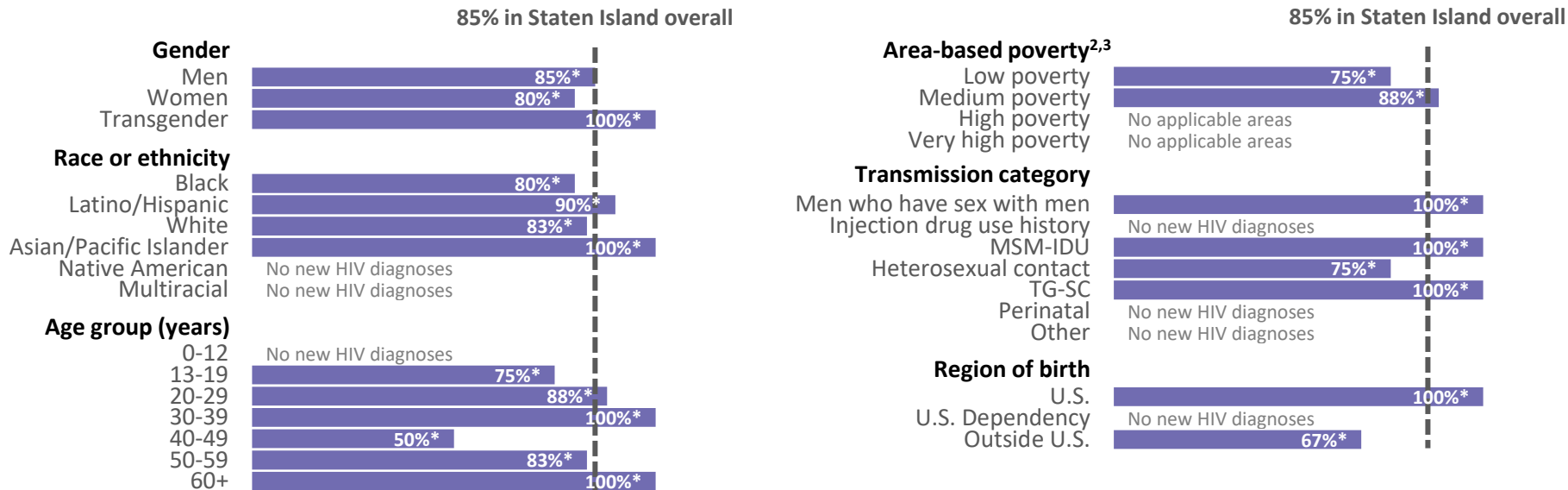
**CARE OUTCOMES AMONG PEOPLE NEWLY  
DIAGNOSED WITH HIV IN STATEN ISLAND**

# Timely initiation of care<sup>1</sup> among people newly diagnosed with HIV in Staten Island and New York City overall, 2018-2022



**Timely initiation of care fluctuated from year to year but increased by 17 percentage points in Staten Island between 2018 and 2022. New York City overall experienced a more stable proportion of people with timely linkage to care.**

# Timely initiation of care<sup>1</sup> among people newly diagnosed with HIV in Staten Island by demographic groups, 2022



**Inequities in timely initiation of care exist across demographic groups in Staten Island.**

\*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.

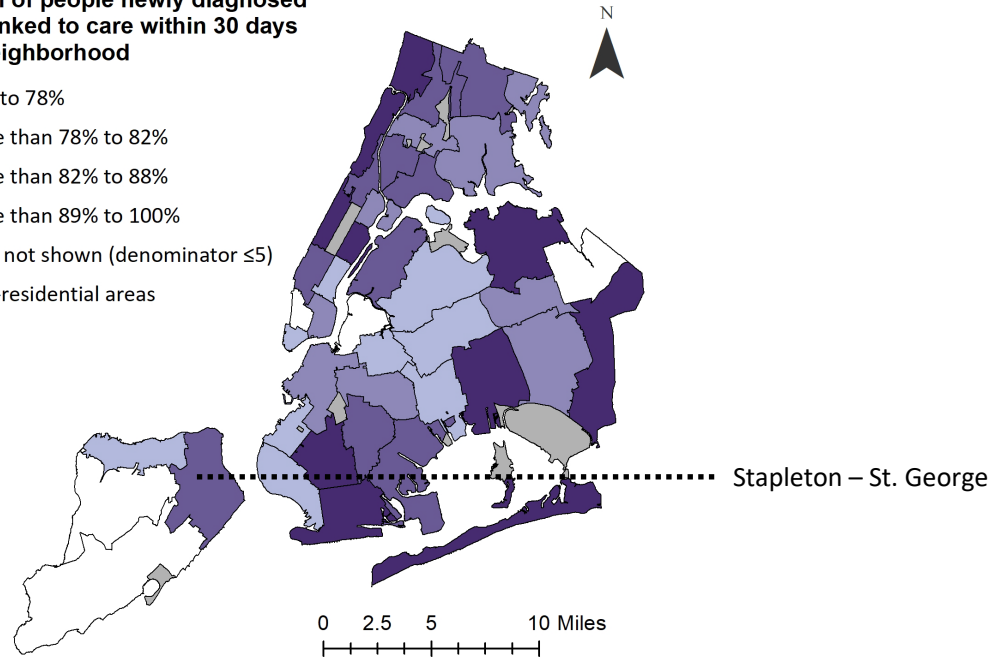
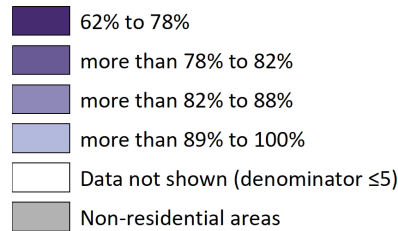
<sup>3</sup>Staten Island does not have neighborhoods with high or very high area-based poverty.

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



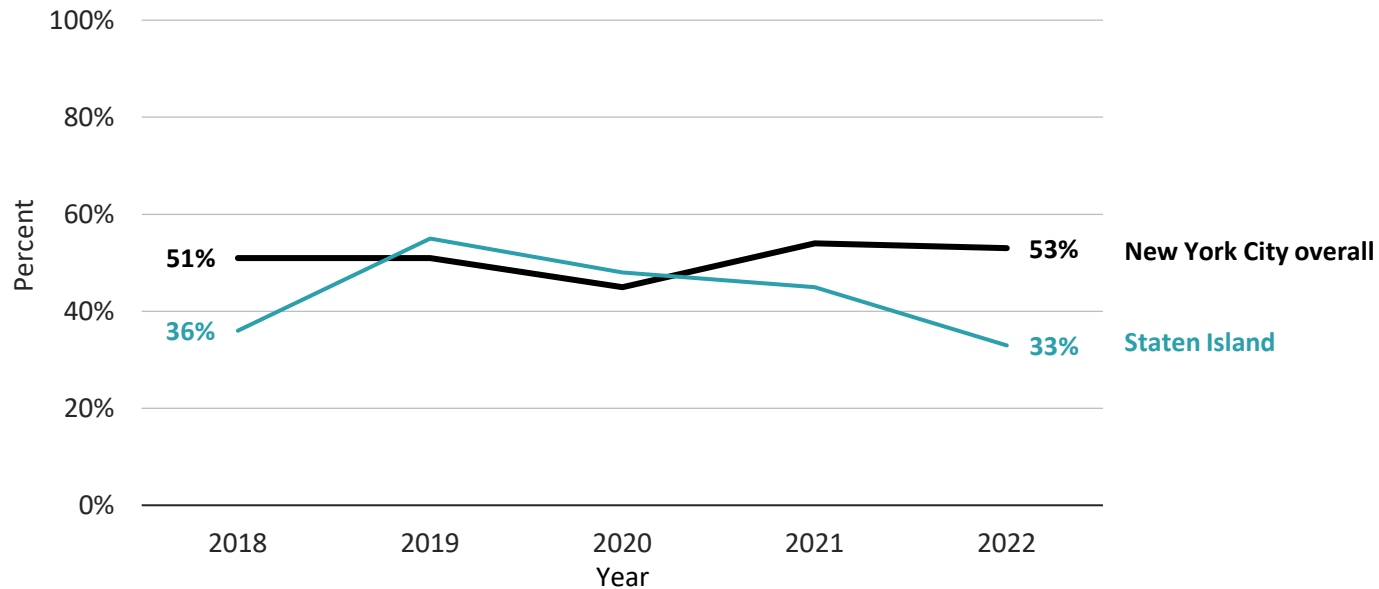
# Timely initiation of care<sup>1</sup> among people newly diagnosed with HIV in Staten Island by United Hospital Fund neighborhood, 2022

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



The neighborhood in Staten Island with the lowest proportion of people linked to care within 30 days of a new HIV diagnosis was Stapleton – St. George (79%).

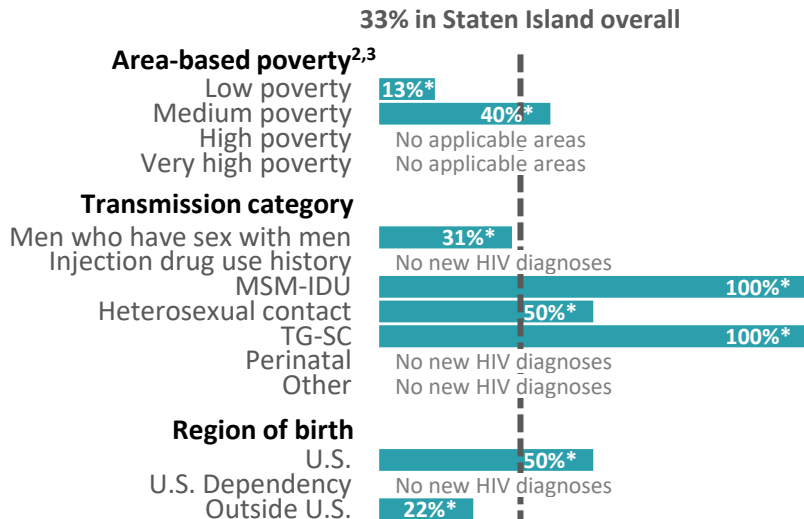
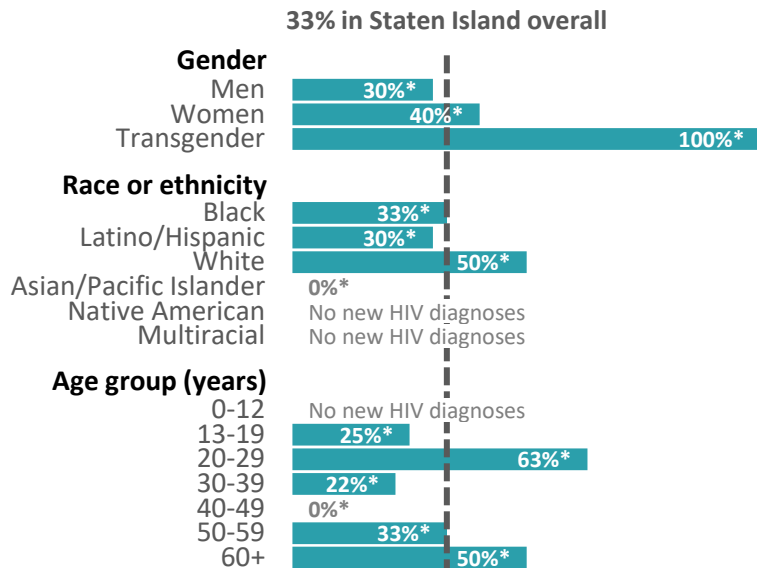
# Viral suppression<sup>1</sup> within three months among people newly diagnosed with HIV in Staten Island and New York City overall, 2022



**Viral suppression within three months of an HIV diagnosis fluctuated from year to year in Staten Island between 2018 and 2022, and in more recent years was lower than in New York City overall.**



# Viral suppression<sup>1</sup> within three months among people newly diagnosed with HIV in Staten Island by demographic group, 2022



**Inequities in viral suppression within three months of an HIV diagnosis exist across demographic groups in Staten Island.**

\*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.

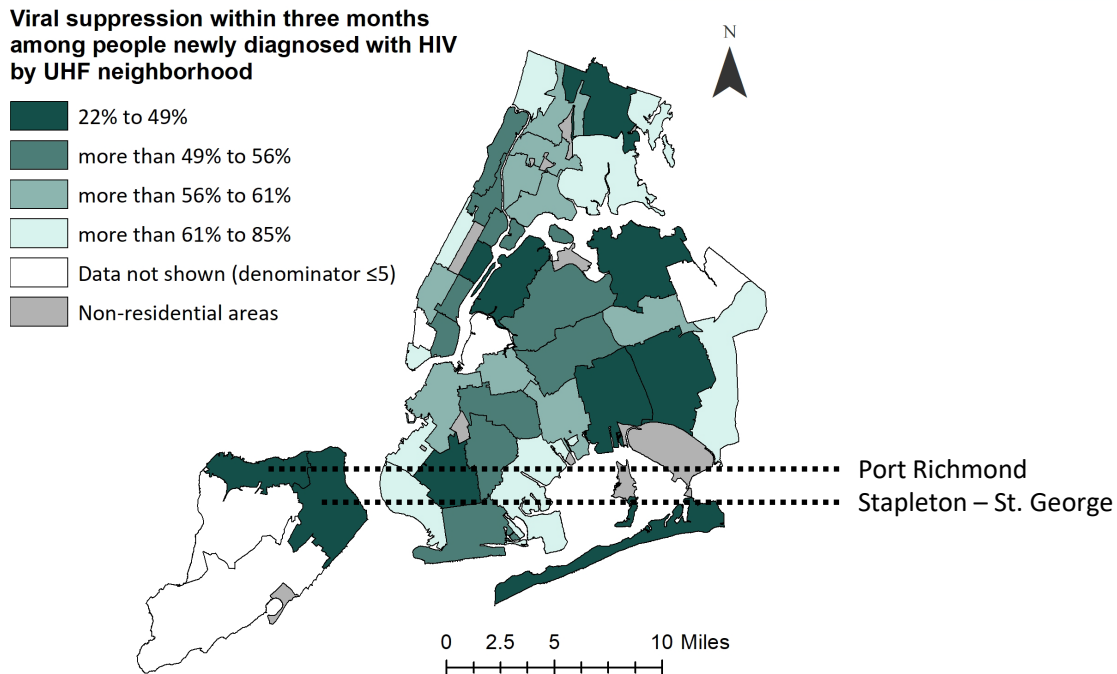
<sup>2</sup>Area-based poverty level is determined by the proportion of residents living below the federal poverty level (FPL) in the NYC ZIP code of residence at diagnosis.

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.

<sup>3</sup>Staten Island does not have neighborhoods with high or very high area-based poverty.

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 newly diagnosed with HIV in Staten Island by United Hospital Fund neighborhood, 2022

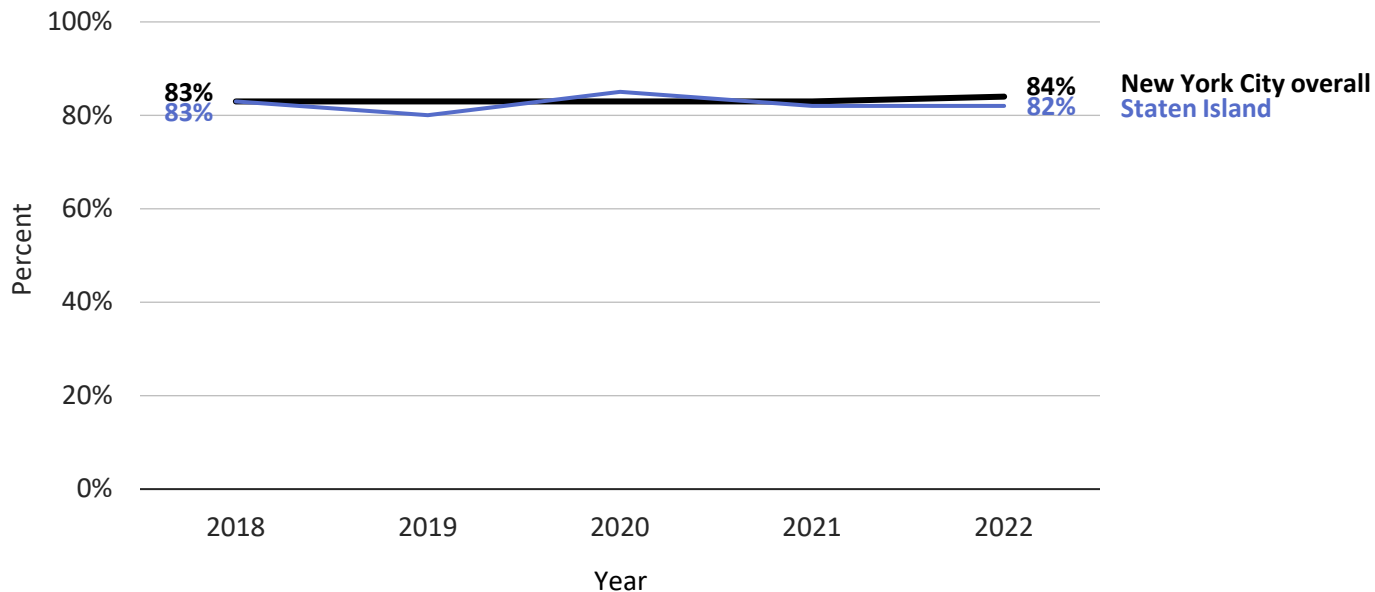


The proportion of people virally suppressed within three months of an HIV diagnosis in Stapleton – St. George (36%) and Port Richmond (42%) were in the lowest quartile for this metric citywide.



**CARE OUTCOMES AMONG PEOPLE WITH HIV  
IN STATEN ISLAND**

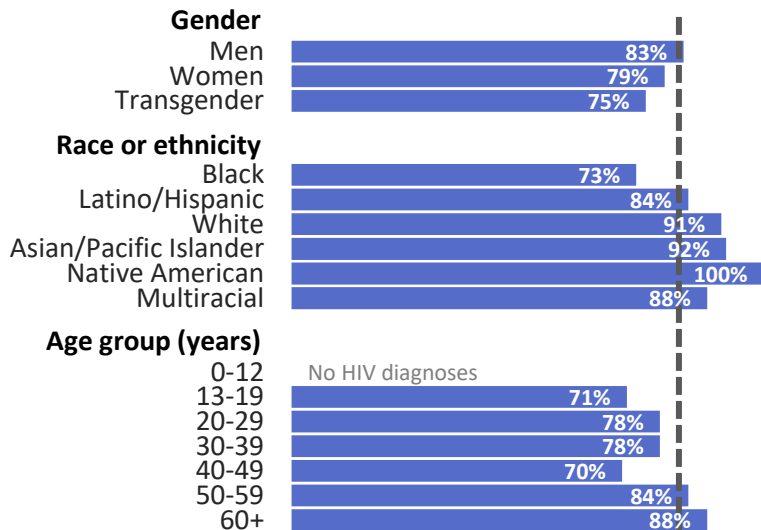
# Viral suppression<sup>1</sup> among people with diagnosed HIV in Staten Island and New York City overall, 2018-2022



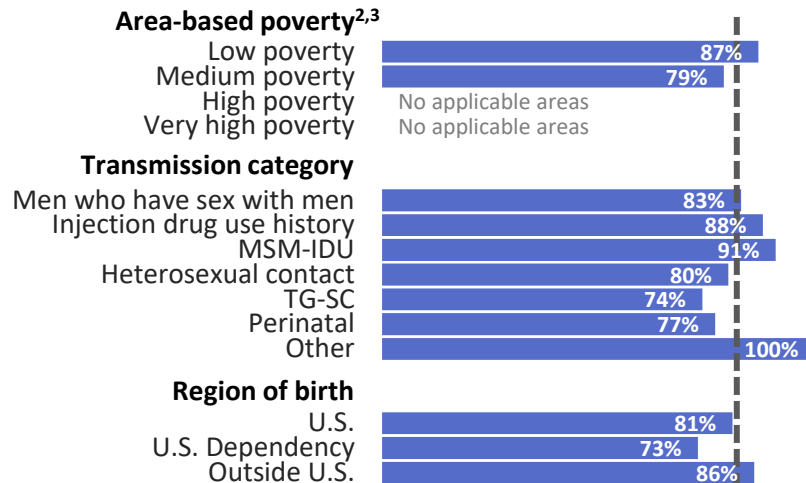
**Viral suppression remained relatively flat in Staten Island and was approximately equal to New York City overall, from 2018 to 2022.**

# Viral suppression<sup>1</sup> among people with diagnosed HIV in Staten Island by demographic group, 2022

82% in Staten Island overall



82% in Staten Island overall



**Inequities in viral suppression exist across demographic groups in Staten Island.**

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.

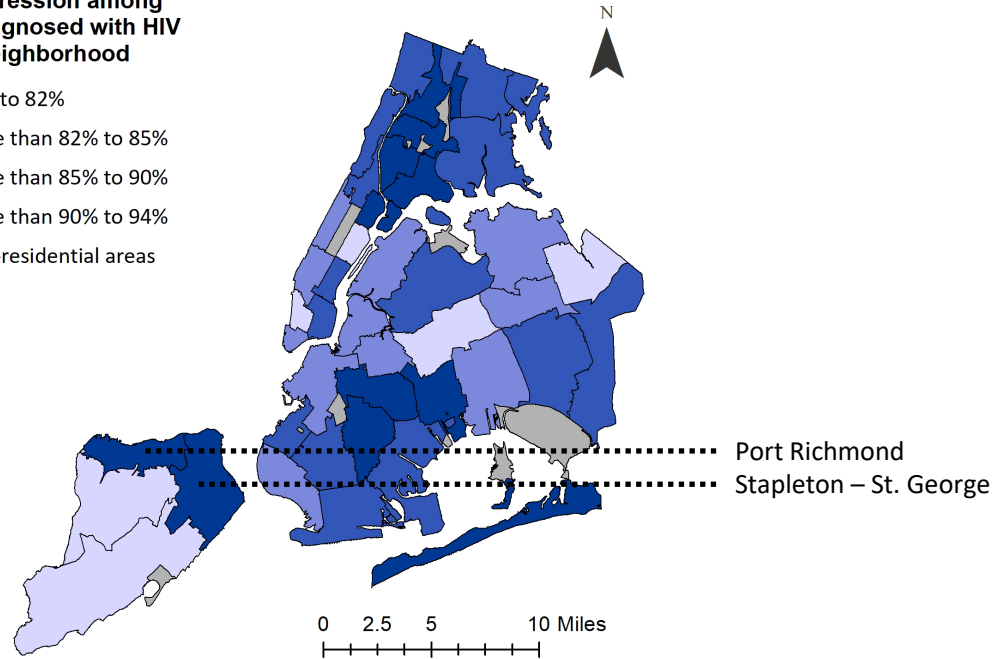
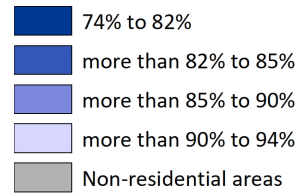
<sup>2</sup>Area-based poverty level is determined by the proportion of residents living below the federal poverty level (FPL) in the NYC ZIP code of residence at diagnosis. Low poverty=<10% below FPL; Medium poverty=10 to <20% below FPL; High poverty=20 to <30% below FPL; Very high poverty>=30% below FPL.

<sup>3</sup>Staten Island does not have neighborhoods with high or very high area-based poverty.

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

# Viral suppression<sup>1</sup> among people with diagnosed HIV in Staten Island by United Hospital Fund neighborhood, 2022

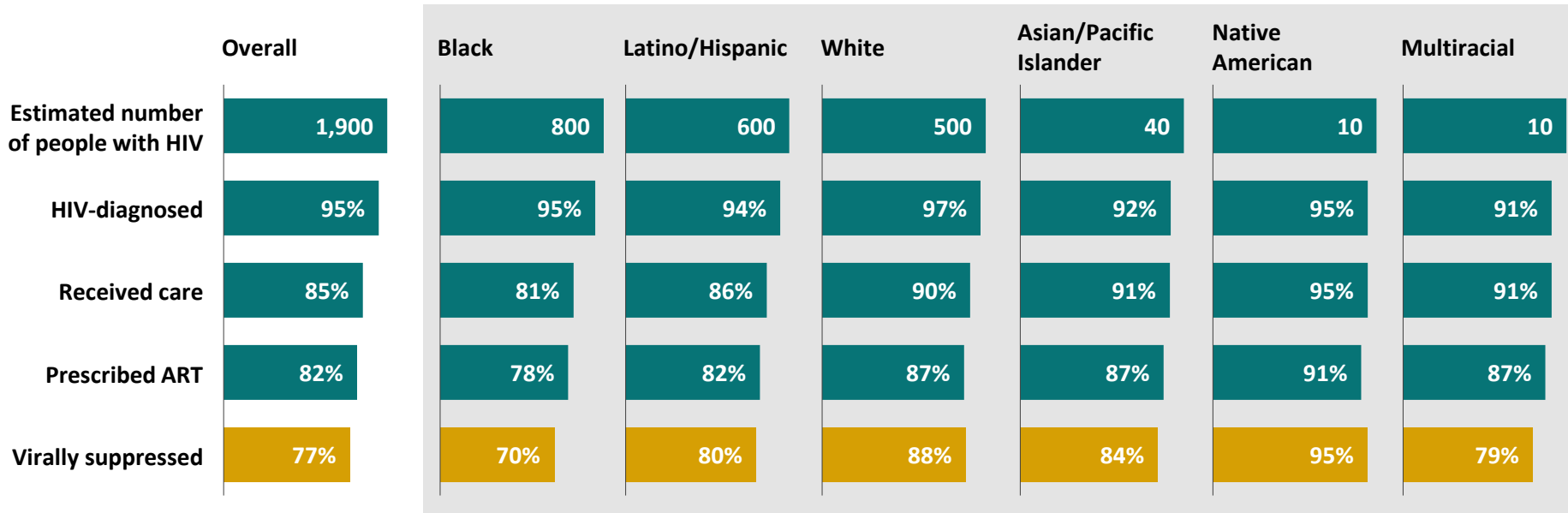
Viral suppression among people diagnosed with HIV by UHF neighborhood



The neighborhoods in Staten Island with the lowest proportions of people virally suppressed were Port Richmond (78%) and Stapleton – St. George (78%)



# Proportion of people with HIV in stages of the HIV care continuum<sup>1,2</sup> in Staten Island overall and by race or ethnicity,<sup>3</sup> 2022



Of approximately 1,900 people with HIV in Staten Island in 2022, 77% had a suppressed viral load, slightly lower than the citywide proportion of 80%. There were inequities in the HIV care continuum by race or ethnicity in 2022 in Staten Island.

<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.

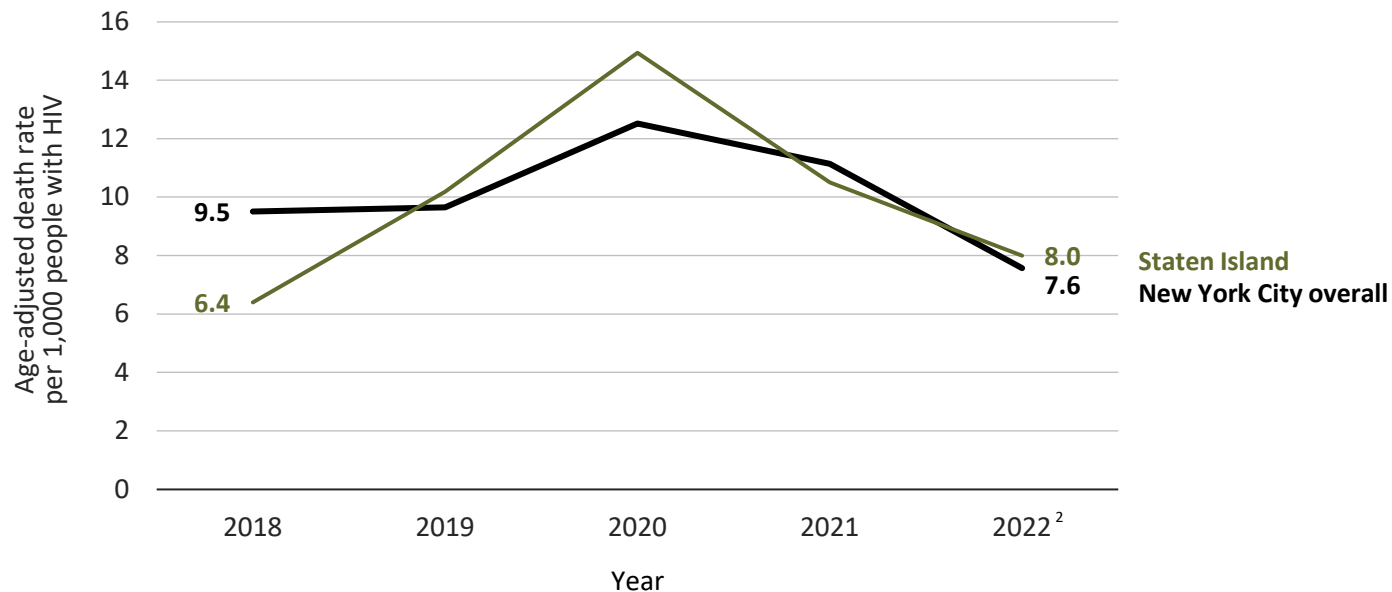
<sup>2</sup>Proportions in the care continuum may not align between stages due to the use of multiple data sources in calculations (e.g., proportion prescribed ART may be lower than the proportion virally suppressed)

<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.

# Age-adjusted<sup>1</sup> death rate per 1,000 people with HIV in Staten Island and New York City overall, 2018-2022

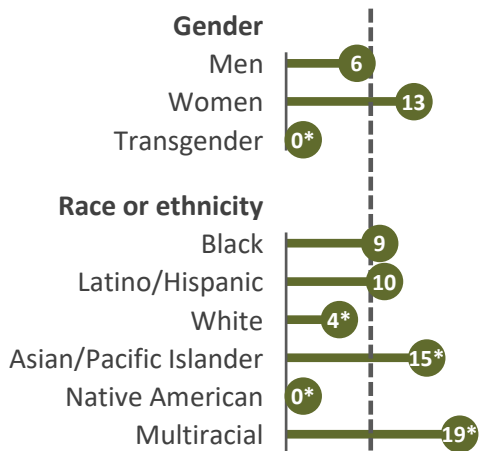


**The age-adjusted death rate declined 46% since the peak in 2020 and increased 25% since 2018. The age-adjusted death rate in Staten Island varied more than the overall rate in New York City.**

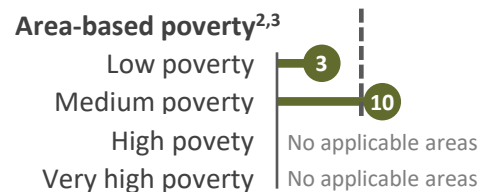


# Age-adjusted<sup>1</sup> death rate per 1,000 people with HIV in Staten Island by demographic group, 2022

8.0 deaths per 1,000 people with HIV in Staten Island overall



8.0 deaths per 1,000 people with HIV in Staten Island overall



**Inequities in the age-adjusted death rate exist across demographic groups in Staten Island.**

\*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>Age-adjusted to the standard 2000 U.S. population. People newly diagnosed with HIV at death were excluded from the numerator.

<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.

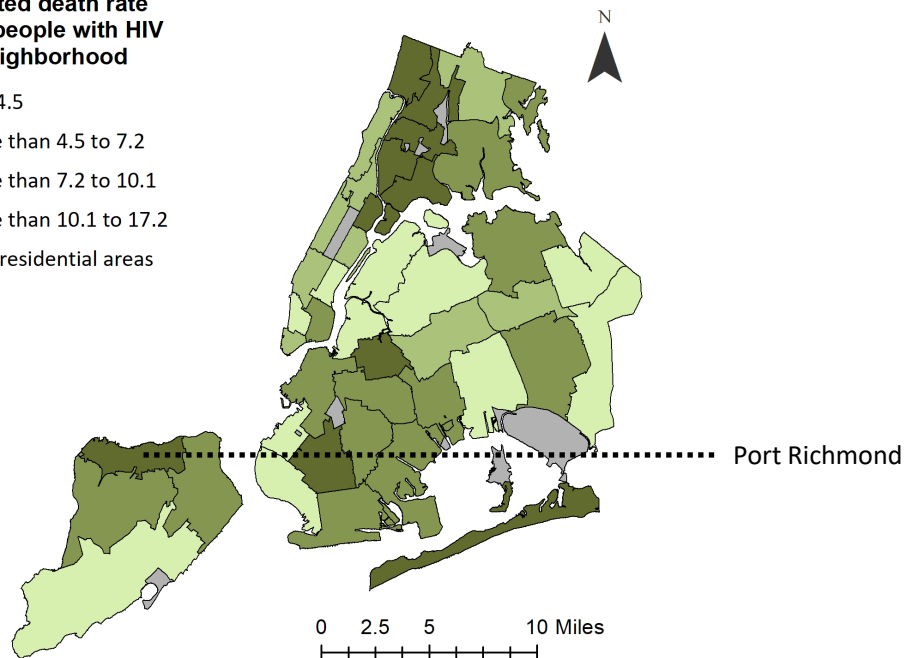
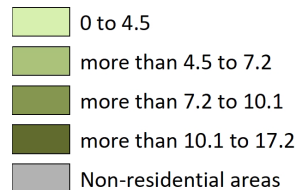
Low poverty=<10% below FPL; Medium poverty=10 to <20% below FPL; High poverty=20 to <30% below FPL; Very high poverty= $\geq$ 30% below FPL.

<sup>3</sup>Staten Island does not have neighborhoods with high or very high area-based poverty.

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

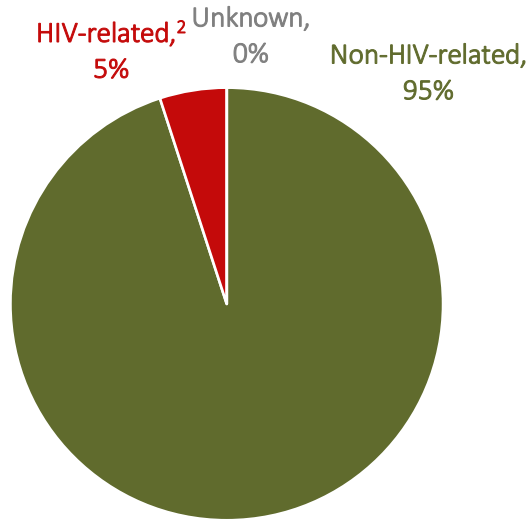
# Age-adjusted<sup>1</sup> death rate per 1,000 people with HIV in Staten Island by United Hospital Fund neighborhood, 2022

Age-adjusted death rate per 1,000 people with HIV by UHF neighborhood



The neighborhood in Staten Island with the highest age-adjusted death rates was Port Richmond (13.2 per 1,000).

# Proportion of deaths among people with HIV in Staten Island by cause of death, 2021<sup>1</sup>



In 2021, 95% of deaths among people with HIV in Staten Island were due to non-HIV-related causes. Among these, the top causes were cardiovascular disease (22%), non-HIV-related cancers (17%), COVID-19 (11%), and diabetes (11%).

<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, 2022" surveillance slide set available at [nyc.gov/assets/doh/downloads/pdf/dires/hiv-in-transgender-persons.pdf](https://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, 2022.
- **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.