HIV Among People Aged 50 or More Years in New York City, 2023

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

NYC Health

Table of Contents

NYC Health

Table of Contents

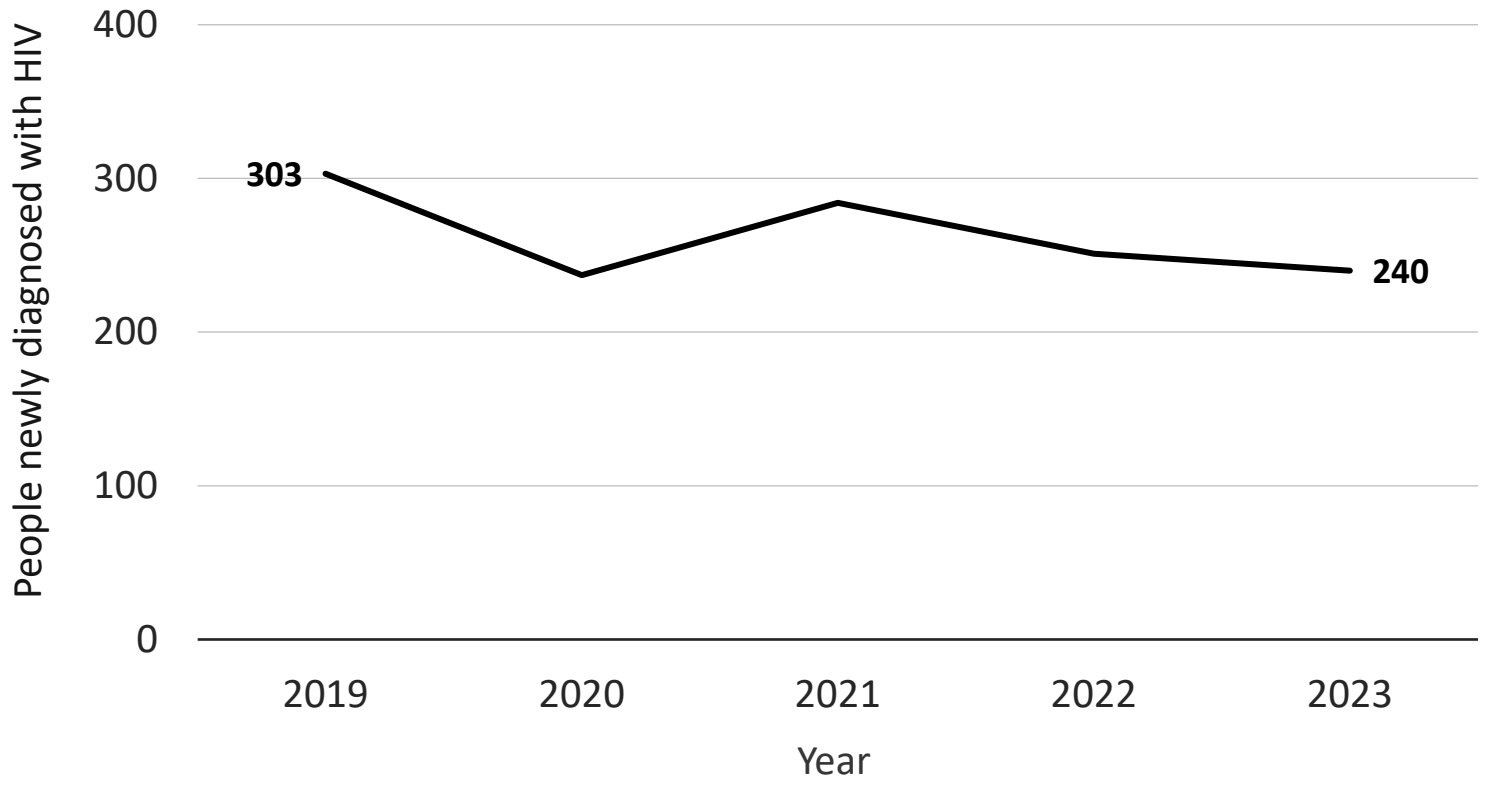
NYC Health

Basic Statistics of HIV Among People Aged 50 or More Years in New York City, 2023

- **240 people newly diagnosed with HIV aged 50 or more years**
  - Including 76 people concurrently diagnosed with AIDS (31.7% of diagnoses)
- **176 people newly diagnosed with AIDS[1] aged 50 or more years**
- **There are an estimated 48,300 people with HIV[2] aged 50 or more years**
- **1,260 deaths among people with HIV aged 50 or more years**
  - 371 deaths among people aged 50 to 59 years
  - 889 deaths among people aged 60 or more years

[1]Includes people concurrently diagnosed with HIV and AIDS.
[2]Approximate value calculated as the number of people with HIV divided by the estimated proportion of people with HIV who had been diagnosed, see Technical Notes for more details.
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

Number of New HIV Diagnoses Among People Aged 50 or More Years in New York City, 2019-2023



The number of people aged 50 or more years newly diagnosed with HIV decreased by 21% from 2019 to 2023. The lowest number of diagnoses occurred in 2020, the year COVID-19 was first detected in New York City.

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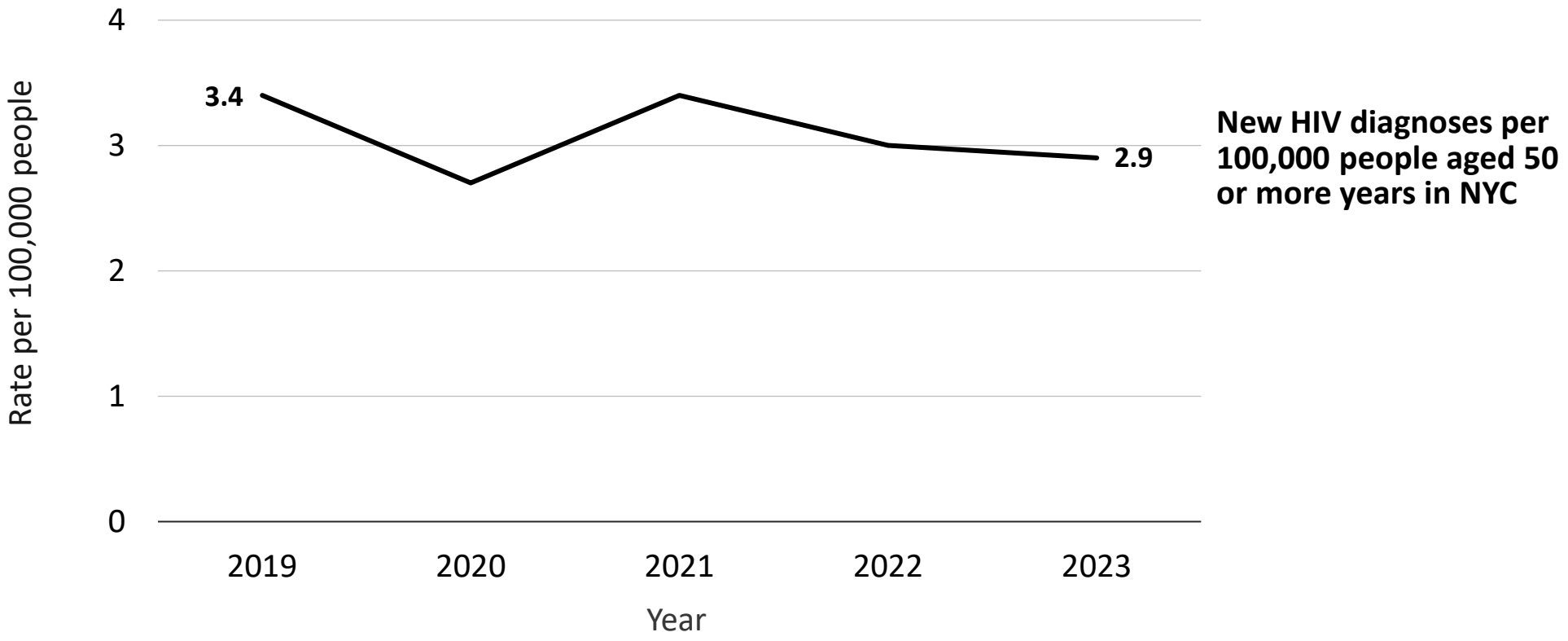
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

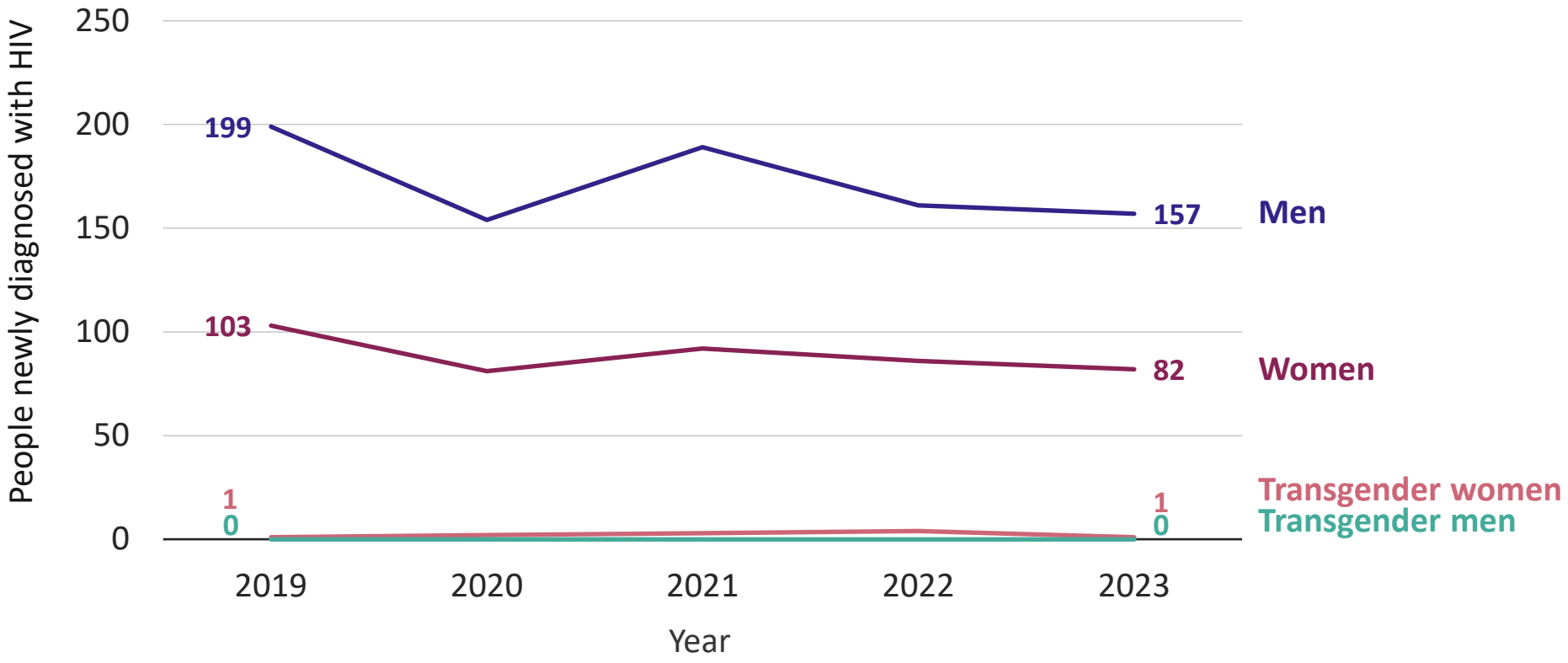
Rate of New HIV Diagnoses[1] per 100,000 People Aged 50 or More Years in New York City, 2019-2023



The rate of new HIV diagnoses among people aged 50 or more years decreased by 15% from 2019 to 2023.

[1]Rates calculated using Health Department population estimates, modified from U.S. Census Bureau intercensal population estimates. As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

Number of New HIV Diagnoses Among People Aged 50 or More Years in New York City by Gender, 2019-2023



The number of new HIV diagnoses decreased or remained stable in all gender groups among people aged 50 or more years between 2019 and 2023. Men consistently experienced the highest number of new HIV diagnoses, representing 65% of new diagnoses in this age group in 2023.

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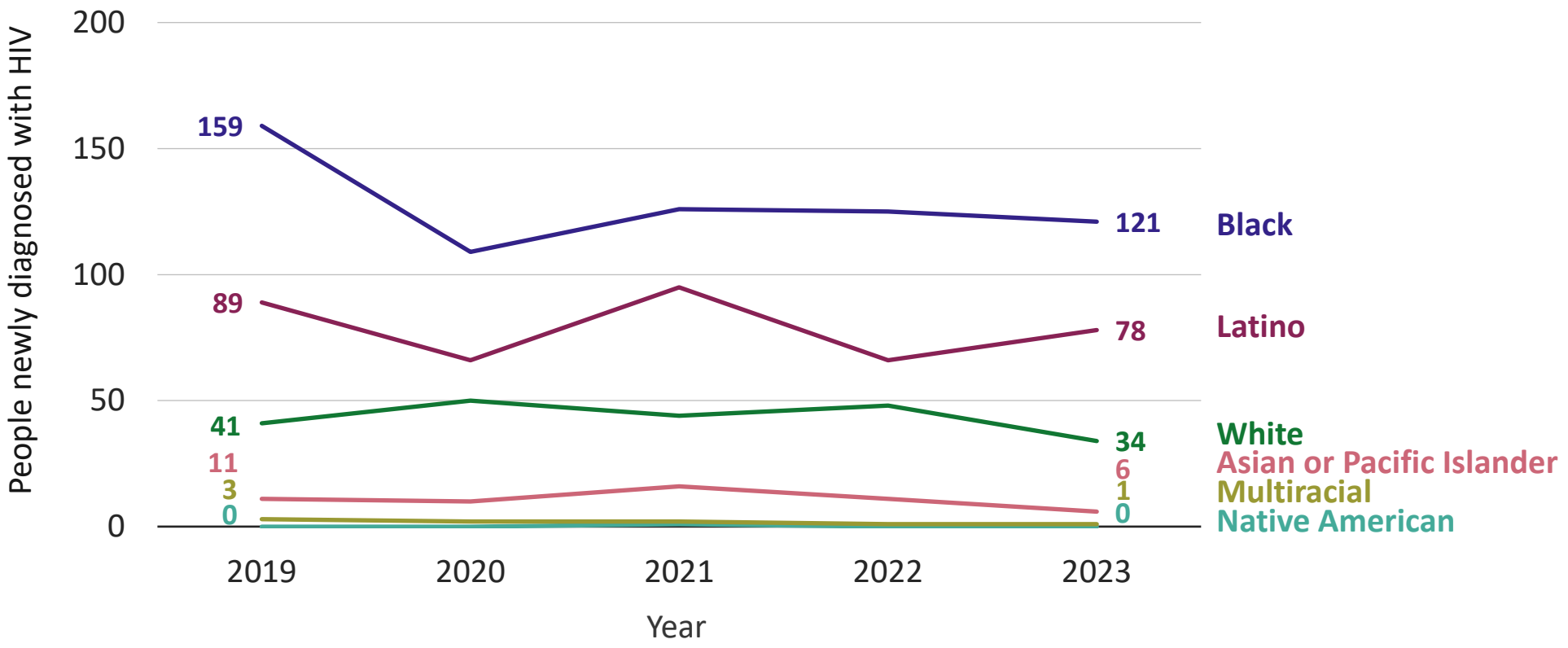
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

Number of New HIV Diagnoses Among People Aged 50 or More Years in New York City by Race or Ethnicity, 2019-2023



The number of new HIV diagnoses decreased or remained stable in all race or ethnicity groups among people aged 50 or more years between 2019 and 2023. Black and Latino people consistently experienced the highest number of new HIV diagnoses, representing a combined 83% of new diagnoses in this age group in 2023.

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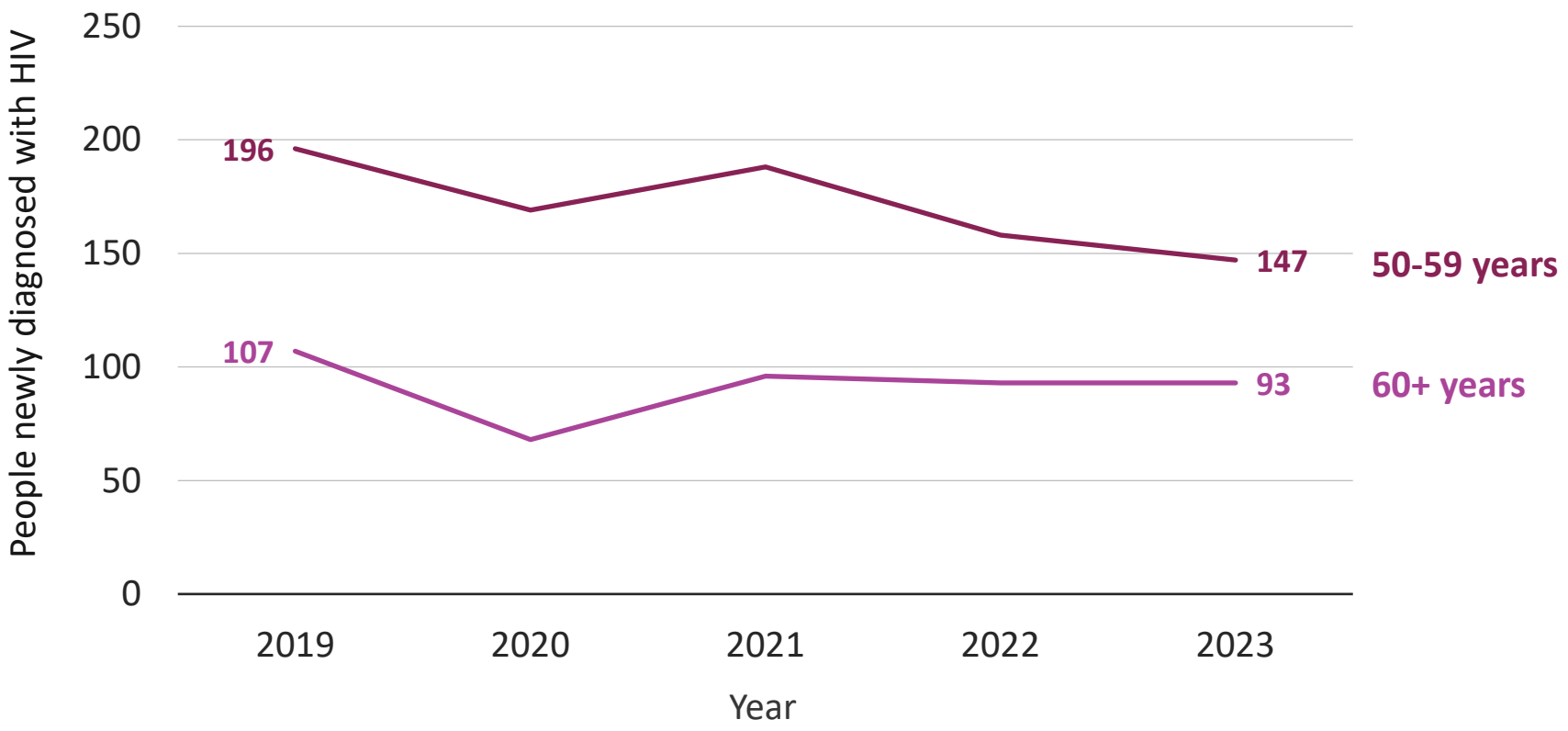
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

Number of New HIV Diagnoses Among People Aged 50 or More Years in New York City by Age Group, 2019-2023



The number of new HIV diagnoses decreased or remained stable in all age groups among people aged 50 or more years between 2019 and 2023. People aged 50 to 59 years consistently experienced a higher number of new HIV diagnoses, representing 61% of new diagnoses in this age group in 2023.

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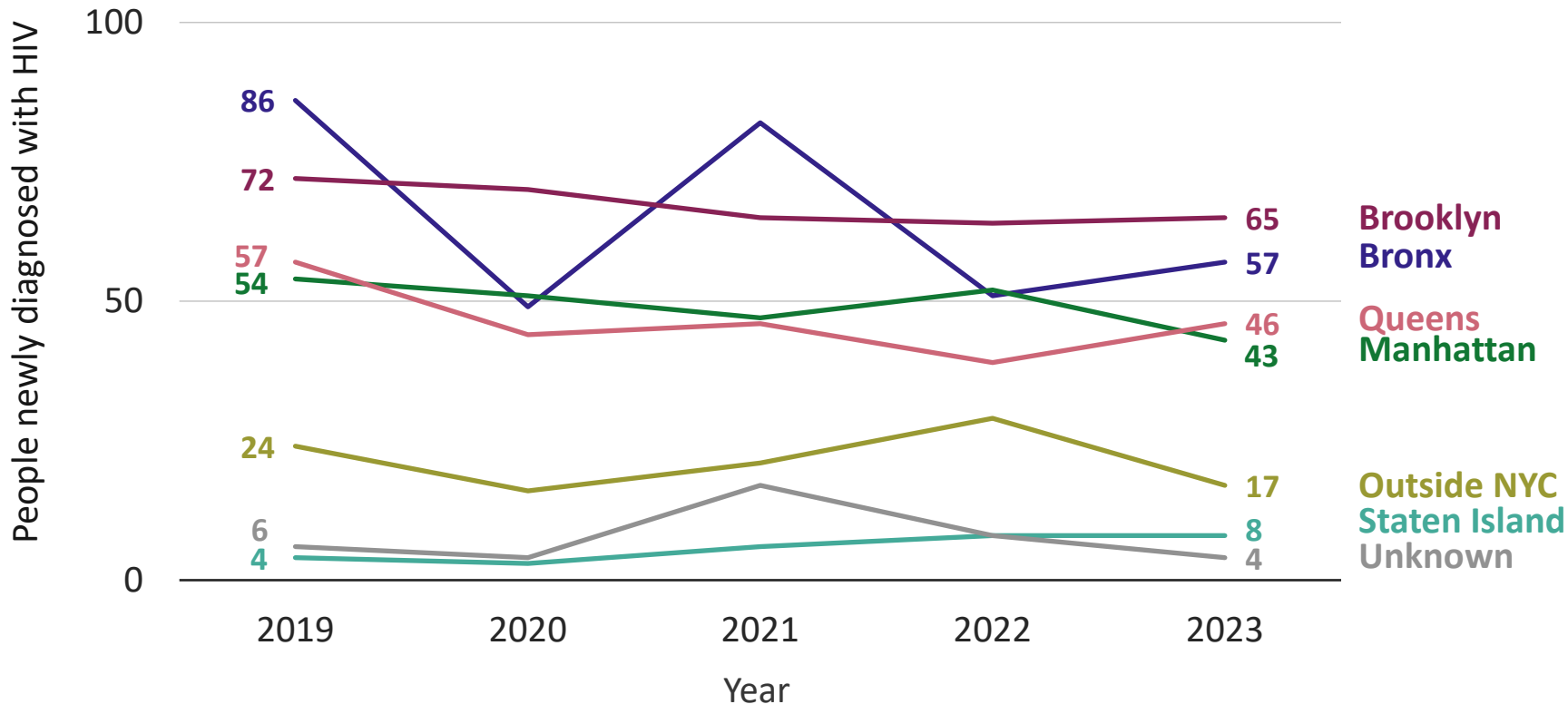
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

Number of New HIV Diagnoses Among People Aged 50 or More Years in New York City by Borough of Residence, 2019-2023



The number of new HIV diagnoses decreased or remained stable in all boroughs of residence among people aged 50 or more years between 2019 and 2023. Brooklyn and the Bronx experienced the highest number of new HIV diagnoses, representing a combined 51% of new diagnoses in this age group in 2023.

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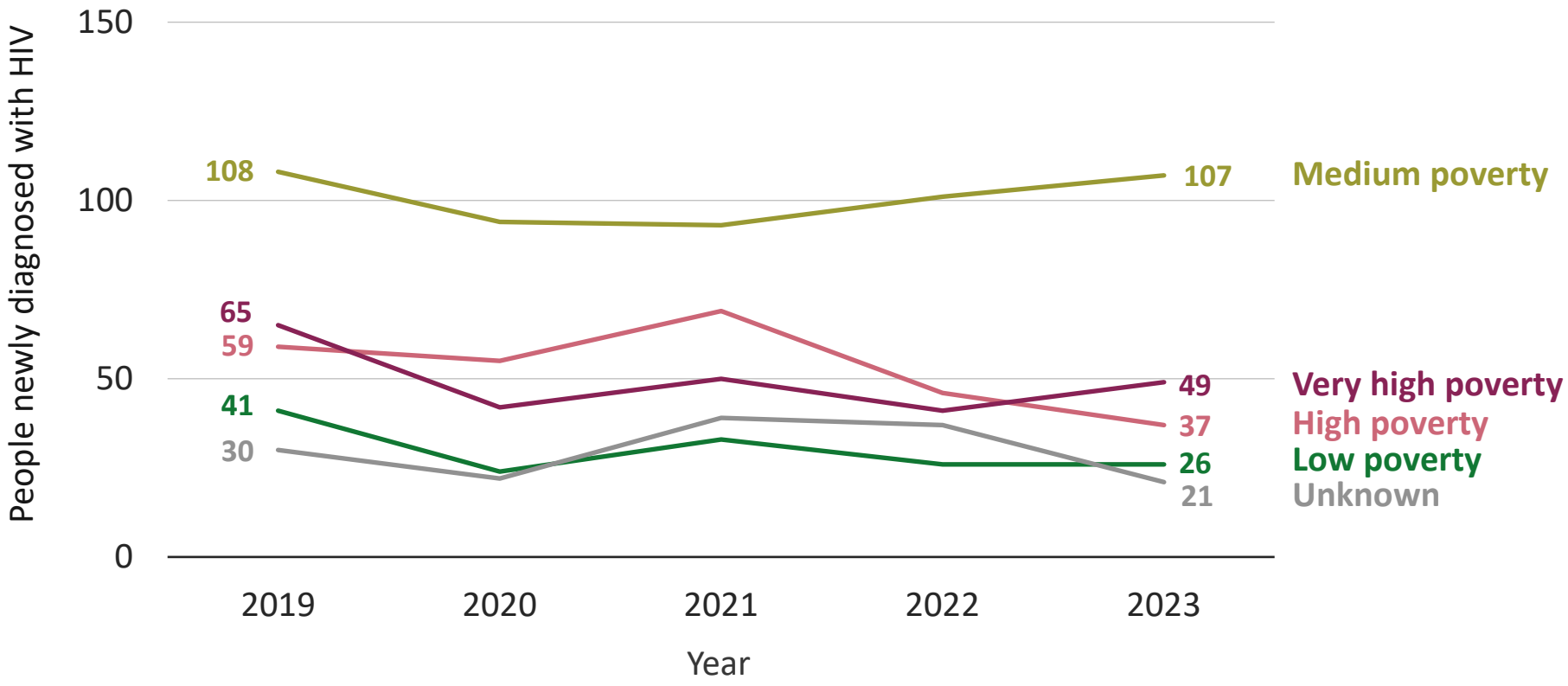
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

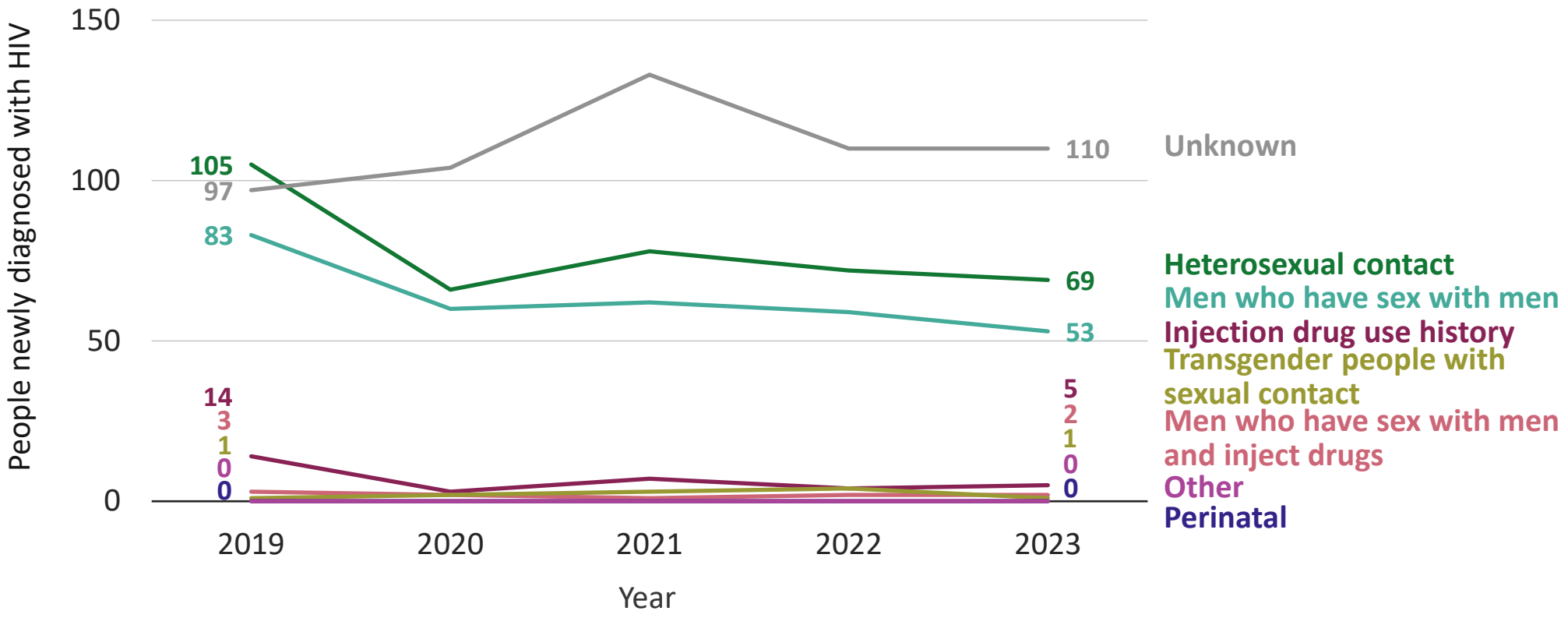
Number of New HIV Diagnoses Among People Aged 50 or More Years in New York City by Neighborhood Poverty Level,[1] 2019-2023



The number of new HIV diagnoses decreased or remained stable in all neighborhood poverty groups among people aged 50 or more years between 2019 and 2023. Neighborhoods with medium poverty consistently experienced the highest number of new HIV diagnoses, representing 45% of new diagnoses in this age group in 2023.

[1]Neighborhood 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, 2024.

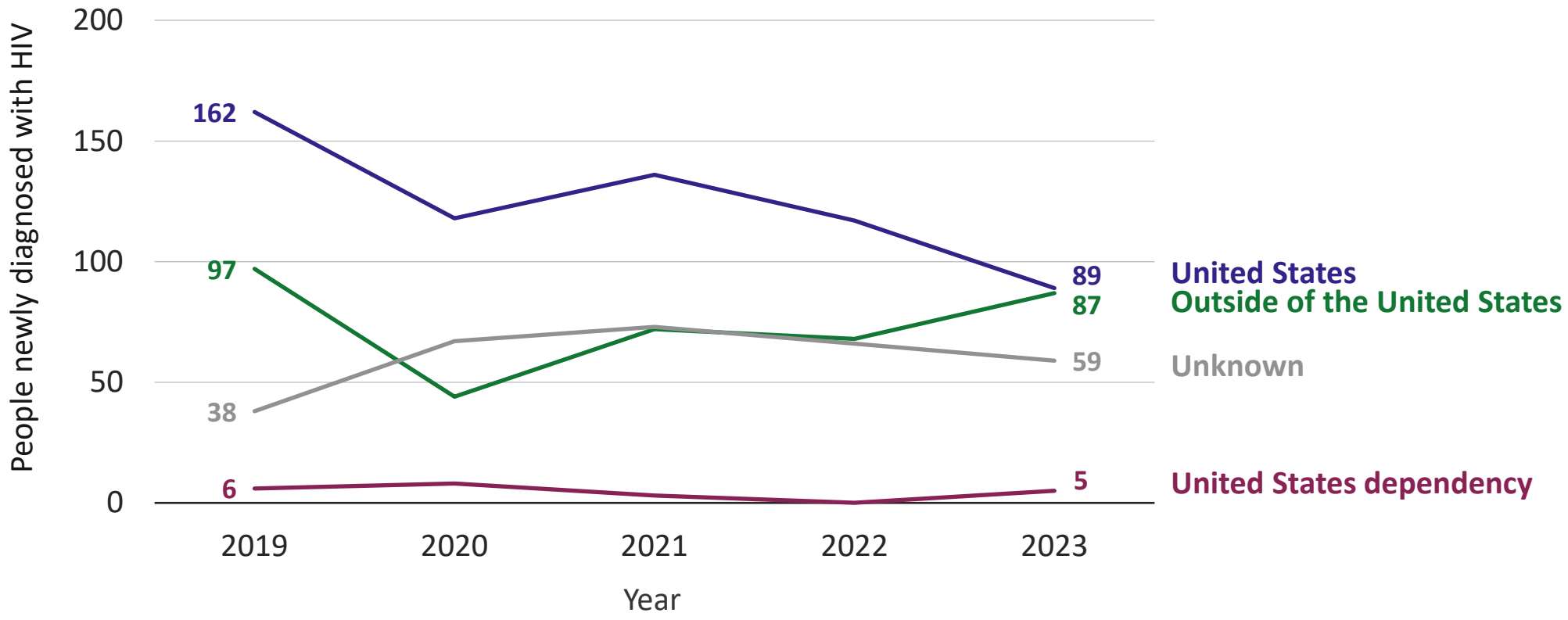
Number of New HIV Diagnoses Among People Aged 50 or More Years in New York City by Transmission Category, 2019-2023



The number of new HIV diagnoses decreased or remained relatively stable for all other transmission categories among people aged 50 or more years. People with an unknown transmission category now experience the highest number of new HIV diagnoses, representing 46% of new diagnoses in this age group in 2023.[1]

[1]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, 2024.

Number of New HIV Diagnoses Among People Aged 50 or More Years in New York City by Place of Birth, 2019-2023



Since 2019, the number of people aged 50 or more years newly diagnosed with HIV increased among those with an unknown place of birth[1] by 55%. The number of new HIV diagnoses decreased or remained stable for all other places of birth. People born outside of the United States experienced a steep decline from 2019 to 2020 and then an increase from 2020 to 2023. People born in the United States consistently experienced the highest number of new HIV diagnoses, representing 37% of new diagnoses in this age group in 2023.

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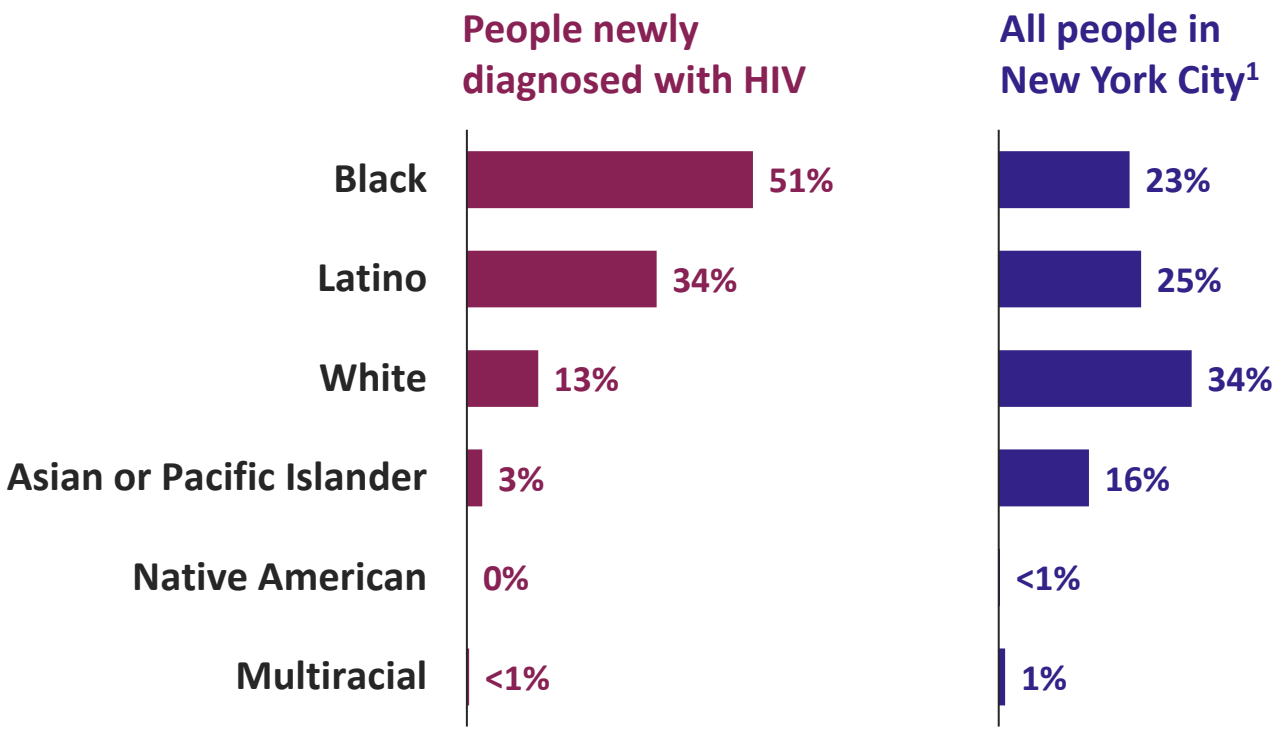
[1]The number of people newly diagnosed with HIV with an unknown place of birth increased due to changes in access to medical records after the emergence of COVID-19 in New York City. As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

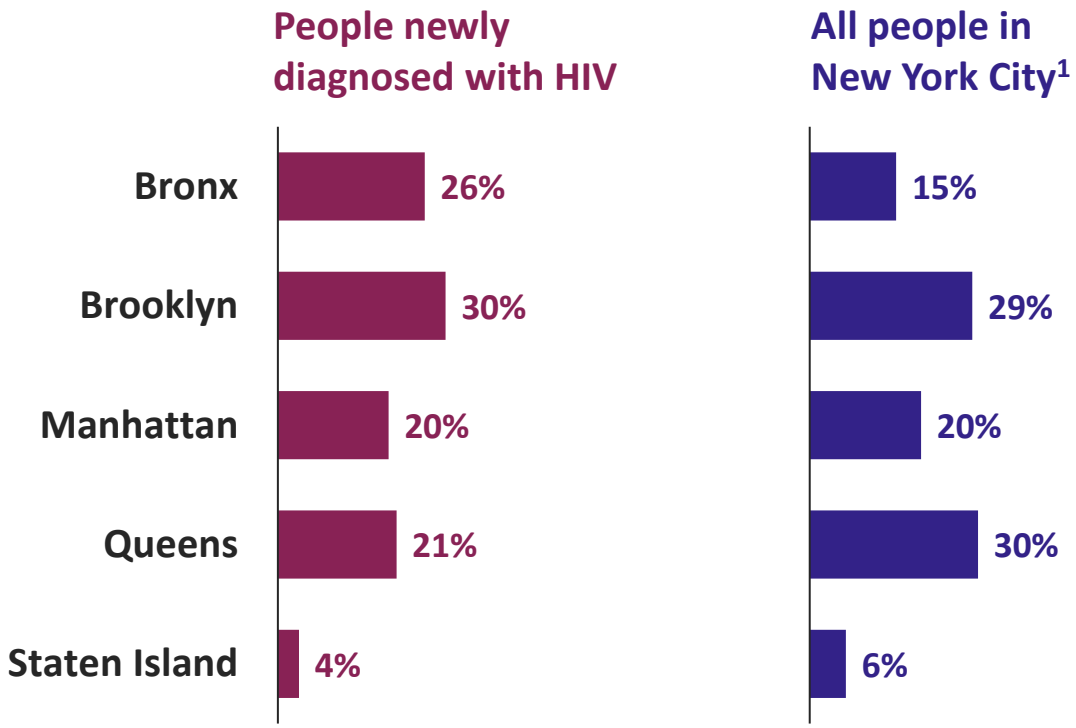
Proportion of People Newly Diagnosed With HIV and All People[1,2] Aged 50 or More Years in New York City by Race or Ethnicity, 2023



Among people aged 50 or more years, the proportions of new HIV diagnoses among Black and Latino people are higher than their respective proportions among all people in New York City.

[1]NYC population calculated using Health Department population estimates, modified from U.S. Census Bureau intercensal population estimates.
[2]Excludes people newly diagnosed with HIV in New York City who were residing outside of New York City at the time of diagnosis.
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

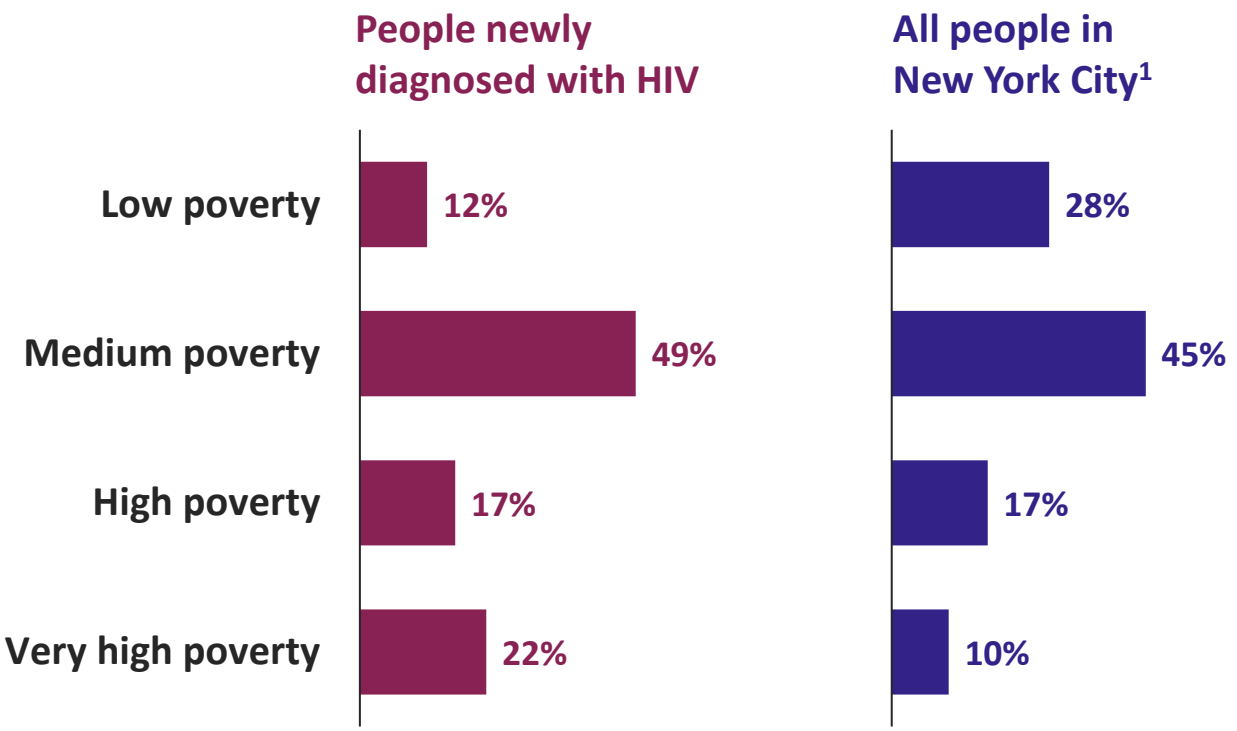
Proportion of People Newly Diagnosed With HIV and All People[1,2] Aged 50 or More Years in New York City by Borough of Residence, 2023



Among people aged 50 or more years, the proportions of new HIV diagnoses among people residing in the Bronx and Brooklyn are higher than their respective proportions among all people in New York City.

[1]NYC population calculated using Health Department population estimates, modified from U.S. Census Bureau intercensal population estimates.
[2]Excludes people newly diagnosed with HIV in New York City who were residing outside of New York City at the time of diagnosis and those with an unknown borough of residence
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

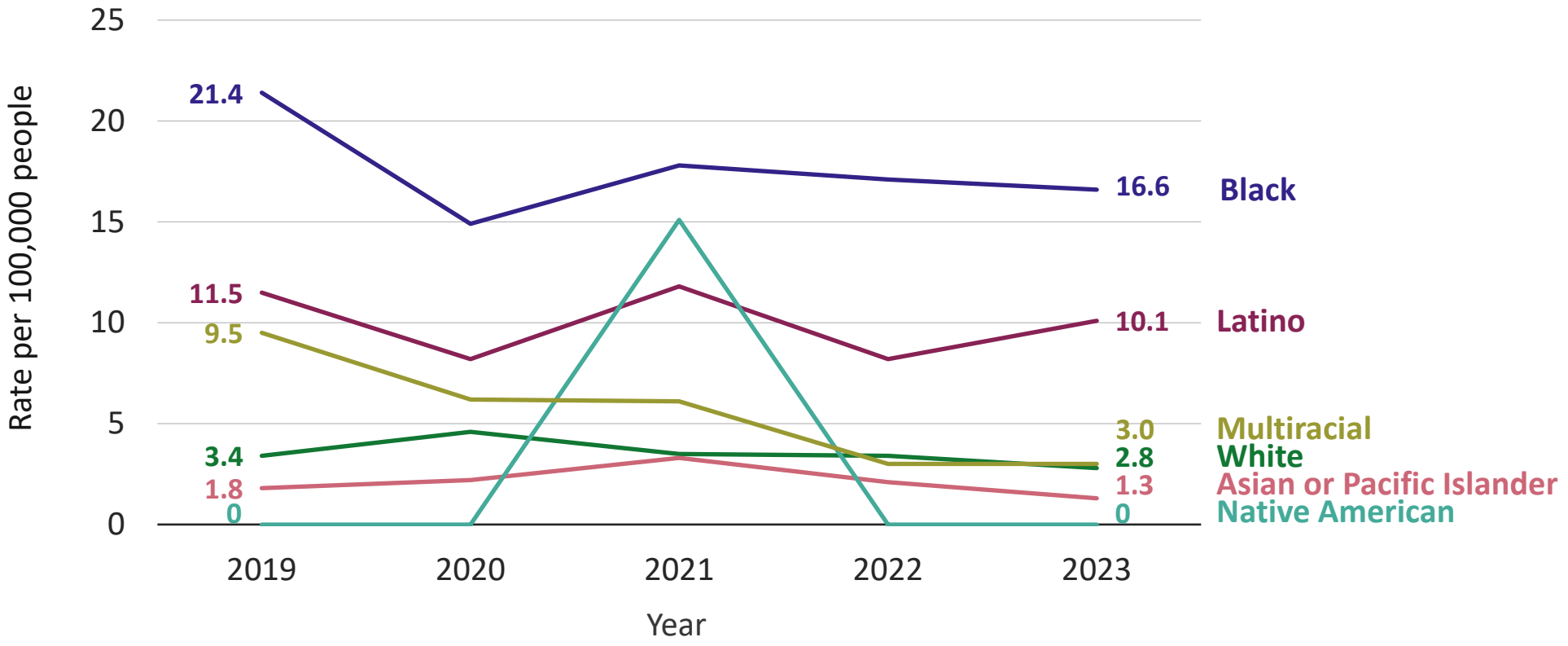
Proportion of People Newly Diagnosed With HIV and All People[1,2] Aged 50 or More Years in New York City by Neighborhood Poverty Level,[3,4] 2023



Among people aged 50 or more years, the proportions of new HIV diagnoses among people living in neighborhoods with medium or very high poverty are higher than their respective proportions among all people in New York City.

[1]NYC population calculated using Health Department population estimates, modified from U.S. Census Bureau intercensal population estimates.
[2]Excludes people newly diagnosed with HIV in New York City who were residing outside of New York City at the time of diagnosis.
[3]Neighborhood 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.
[4]Proportions exclude people living in neighborhoods with an unknown poverty level
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

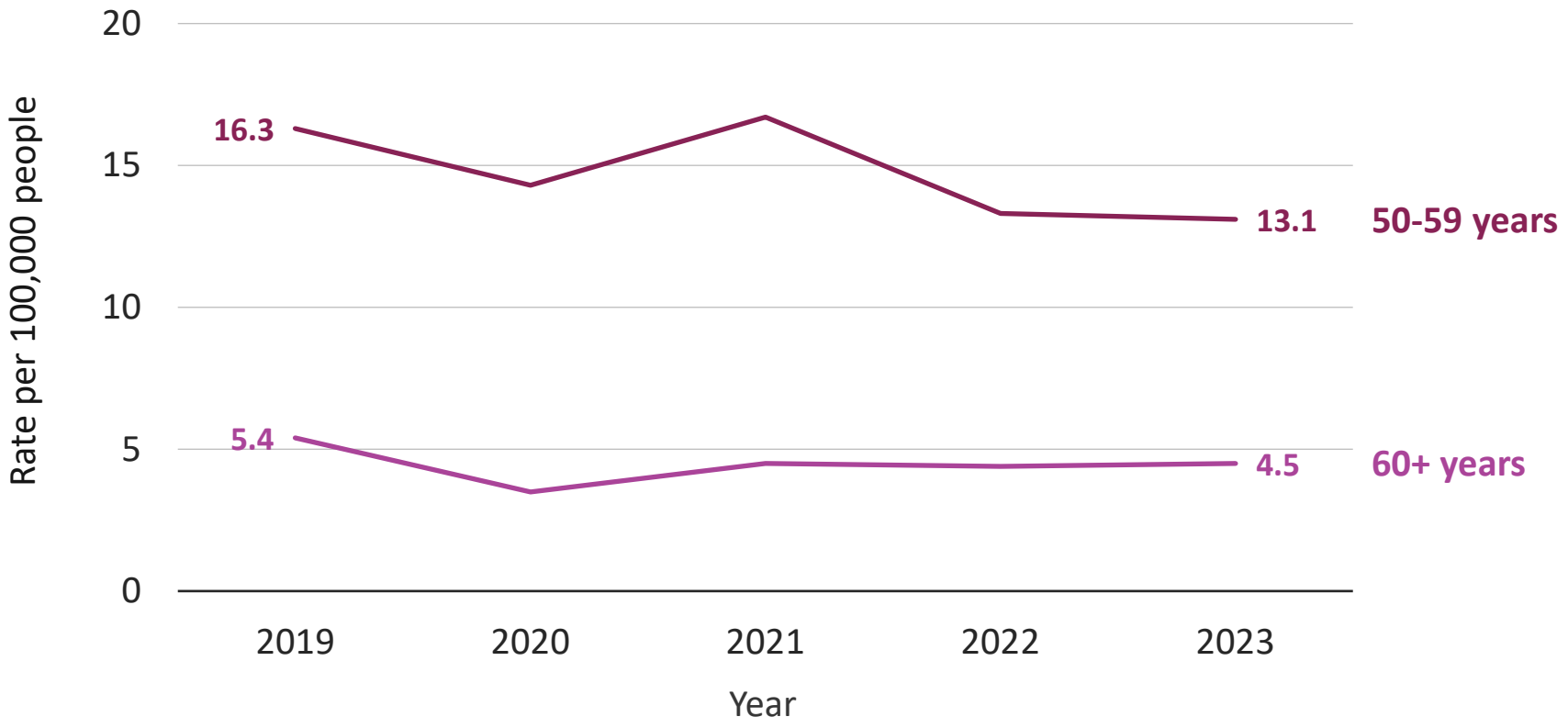
Rate of New HIV Diagnoses[1] per 100,000 People Aged 50 or More Years in New York City by Race or Ethnicity, 2019-2023



The rate of new HIV diagnoses decreased or remained stable in all race or ethnicity groups among people aged 50 or more years between 2019 and 2023. Black people consistently experienced the highest rate of new HIV diagnoses.

[1]Rates calculated using Health Department population estimates, modified from U.S. Census Bureau intercensal population estimates. As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

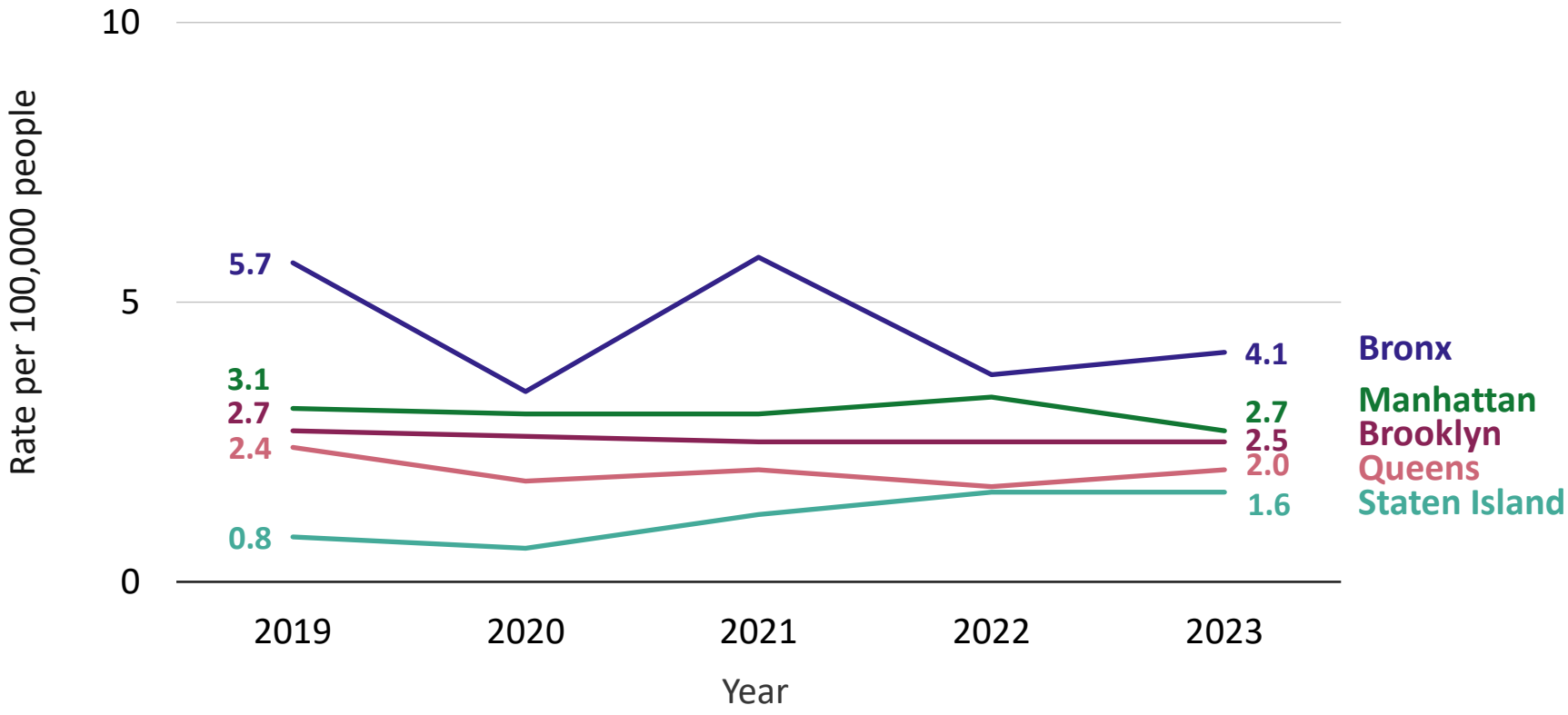
Rate of New HIV Diagnoses[1,2] per 100,000 People Aged 50 or More Years in New York City by Age Group, 2019-2023



The rate of new HIV diagnoses decreased or remained stable in both age groups among people aged 50 or more years between 2019 and 2023. People aged 50 to 59 consistently experienced a higher rate of new HIV diagnoses.

[1]Rates calculated using Health Department population estimates, modified from U.S. Census Bureau intercensal population estimates.
[2]Excludes people newly diagnosed with HIV in New York City who were residing outside of New York City at the time of diagnosis.
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

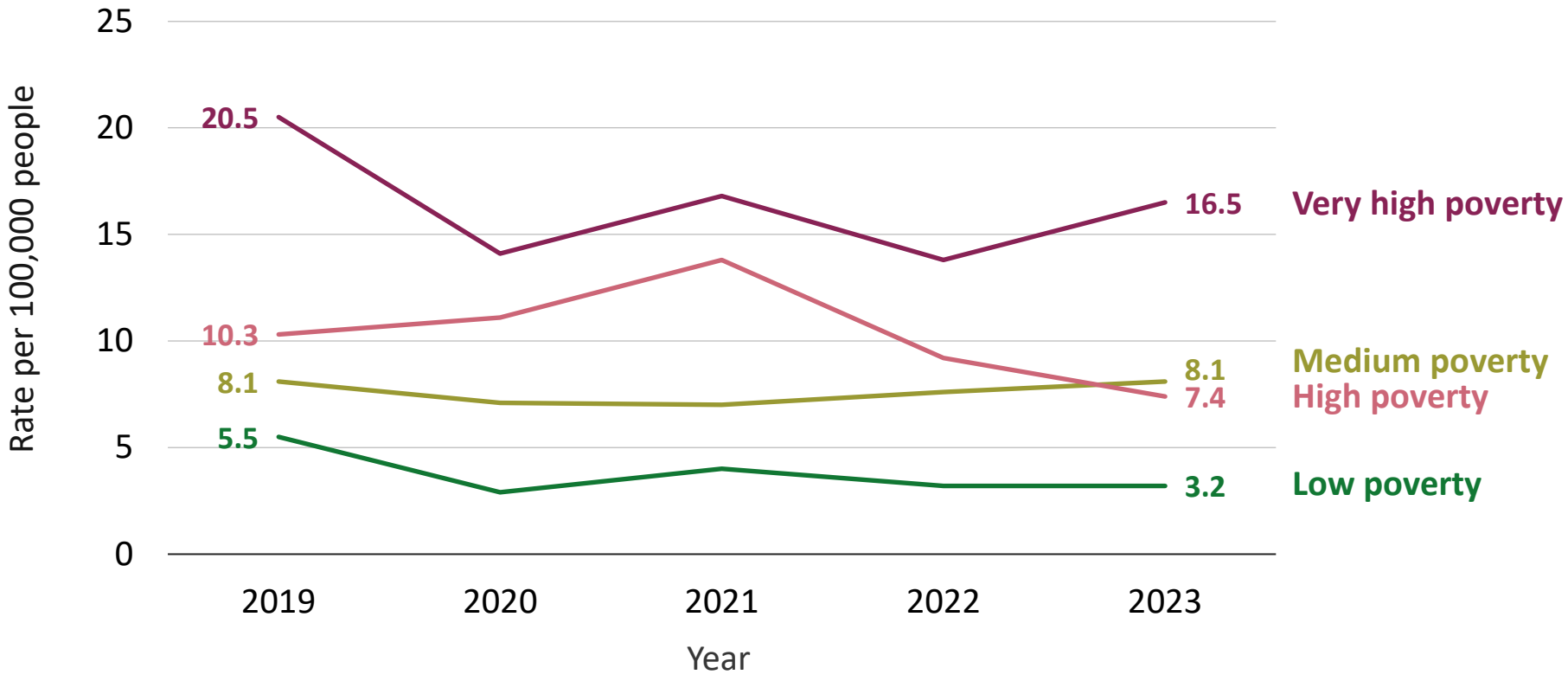
Rate of New HIV Diagnoses[1,2] per 100,000 People Aged 50 or More Years in New York City by Borough of Residence, 2019-2023



The rate of new HIV diagnoses decreased or remained stable in all boroughs among people aged 50 or more years between 2019 and 2023. People in the Bronx consistently experienced the highest rate of new HIV diagnoses.

[1]Rates calculated using Health Department population estimates, modified from U.S. Census Bureau intercensal population estimates.
[2]Excludes people newly diagnosed with HIV in New York City who were residing outside of New York City at the time of diagnosis.
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

Rate of New HIV Diagnoses[1,2] per 100,000 People Aged 50 or More Years in New York City by Neighborhood Poverty Level,[3] 2019-2023



The rate of new HIV diagnoses decreased or remained stable in all neighborhood poverty groups among people aged 50 or more years between 2019 and 2023. People living in neighborhoods with very high poverty consistently experienced the highest rate of new HIV diagnoses.

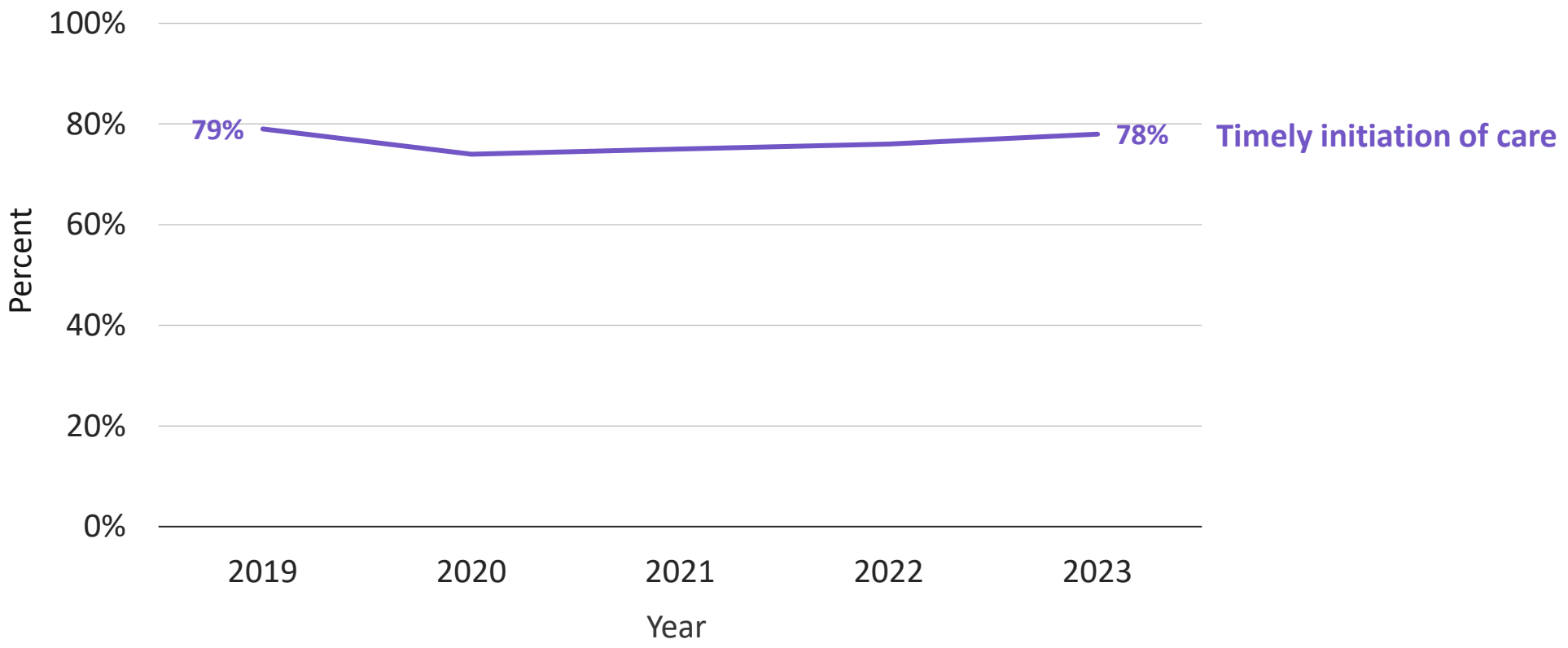
[1]Rates calculated using Health Department population estimates, modified from U.S. Census Bureau intercensal population estimates.
[2]Excludes people newly diagnosed with HIV in New York City who were residing outside of New York City at the time of diagnosis.
[3]Neighborhood poverty level is determined 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, 2024.

Care Outcomes Among People Aged 50 or More Years Newly Diagnosed With HIV

New York City

NYC Health

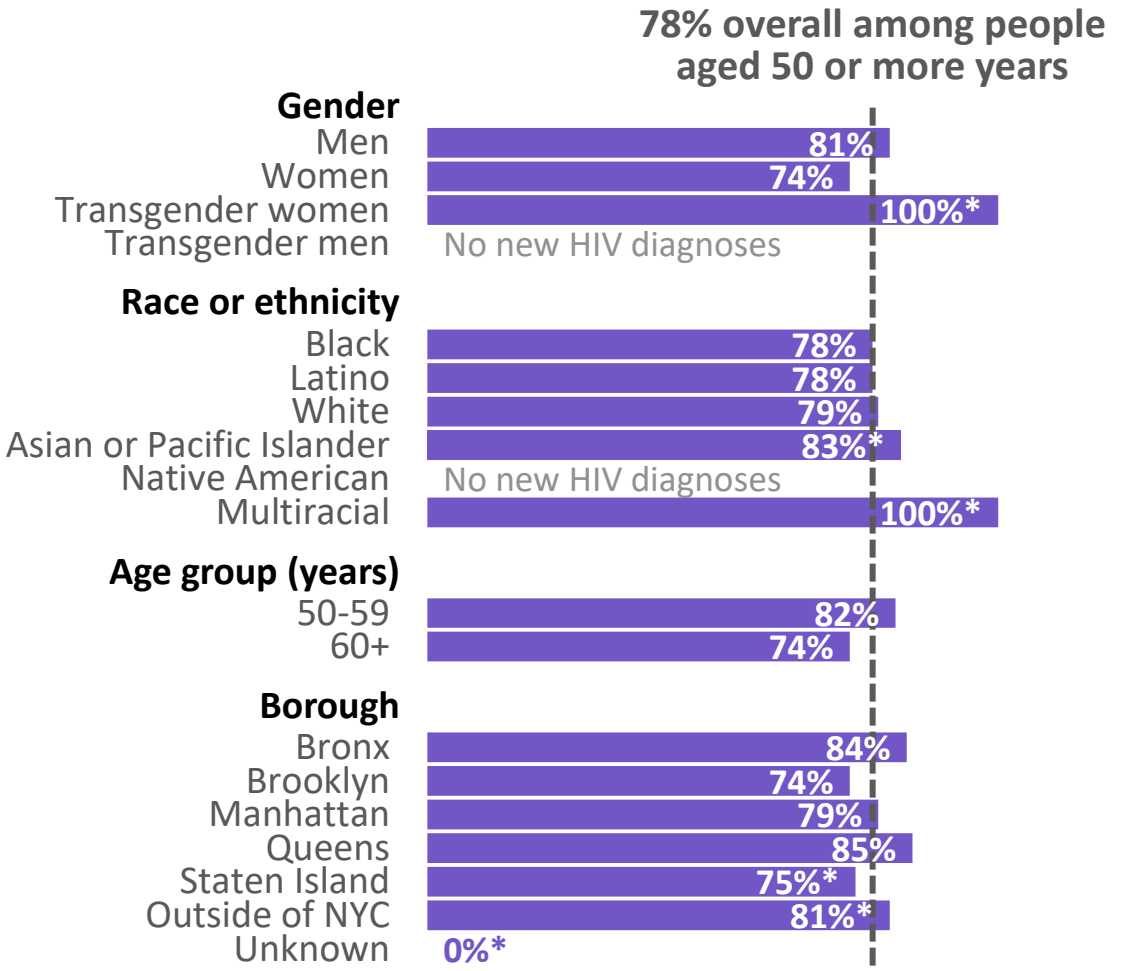
Timely Initiation of Care[1] After Diagnosis Among People Aged 50 or More Years in New York City, 2019-2023

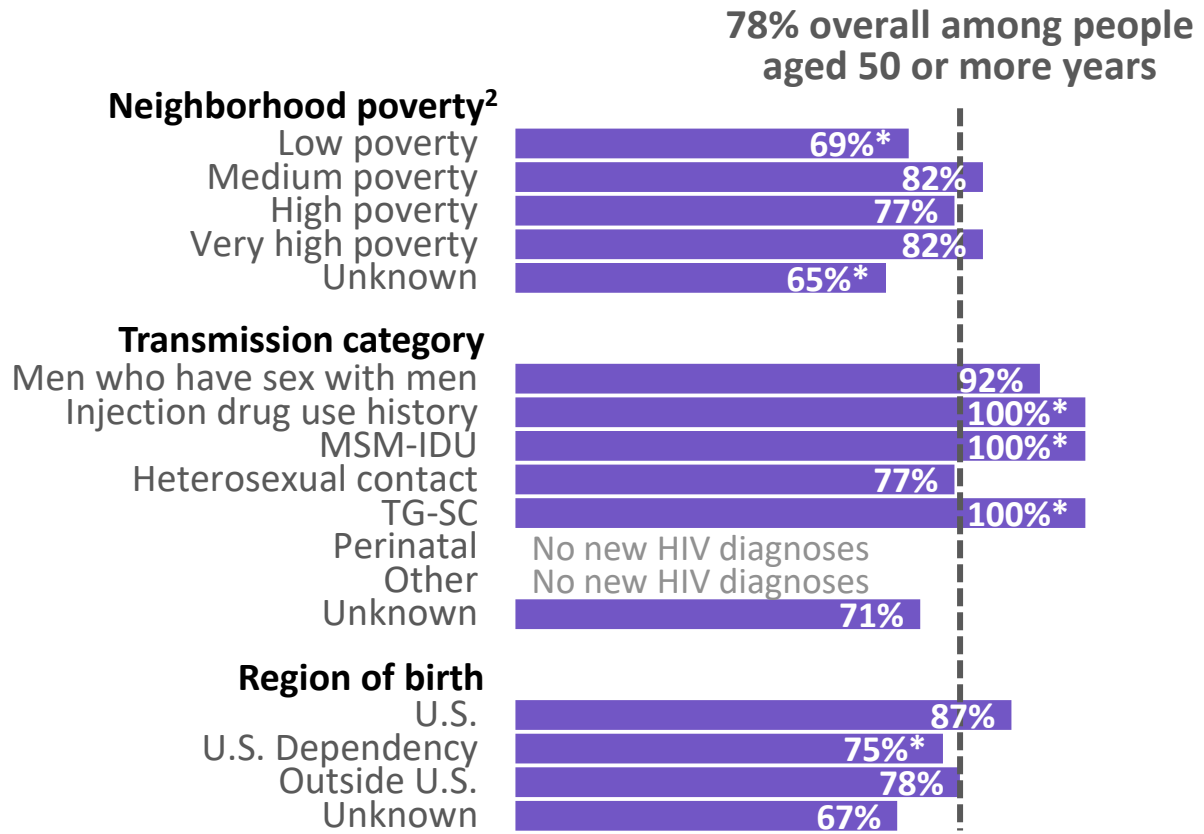


Timely initiation of care among people aged 50 or more years remained relatively stable from 2019 to 2023.

[1]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.
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

Timely Initiation of Care[1] After Diagnosis Among People Aged 50 or More Years in New York City by Demographic Group, 2023

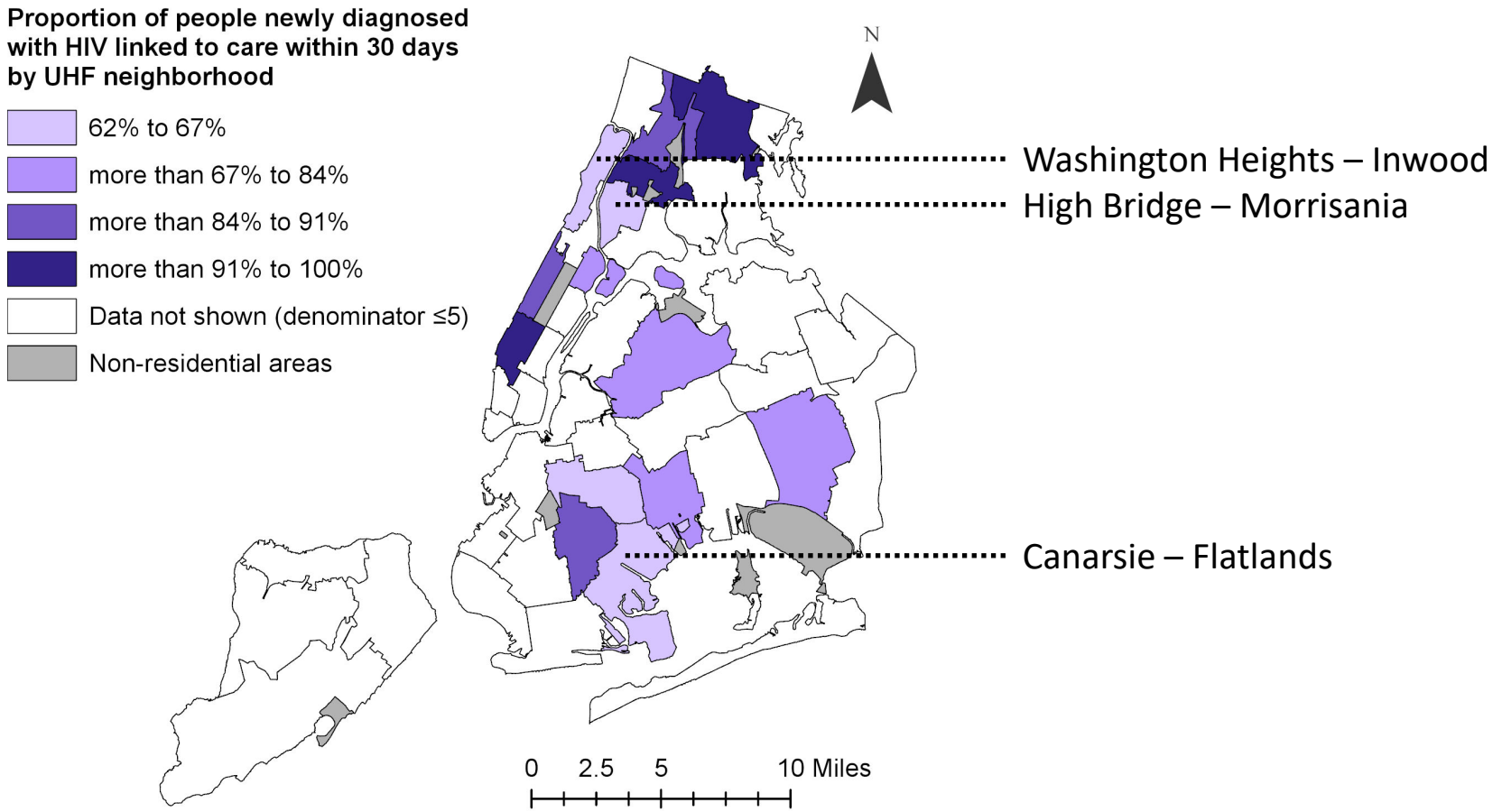




Differences in timely initiation of care exist across demographic groups among people aged 50 or more years.

*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.
[1]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.
[2]Neighborhood 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, 2024.

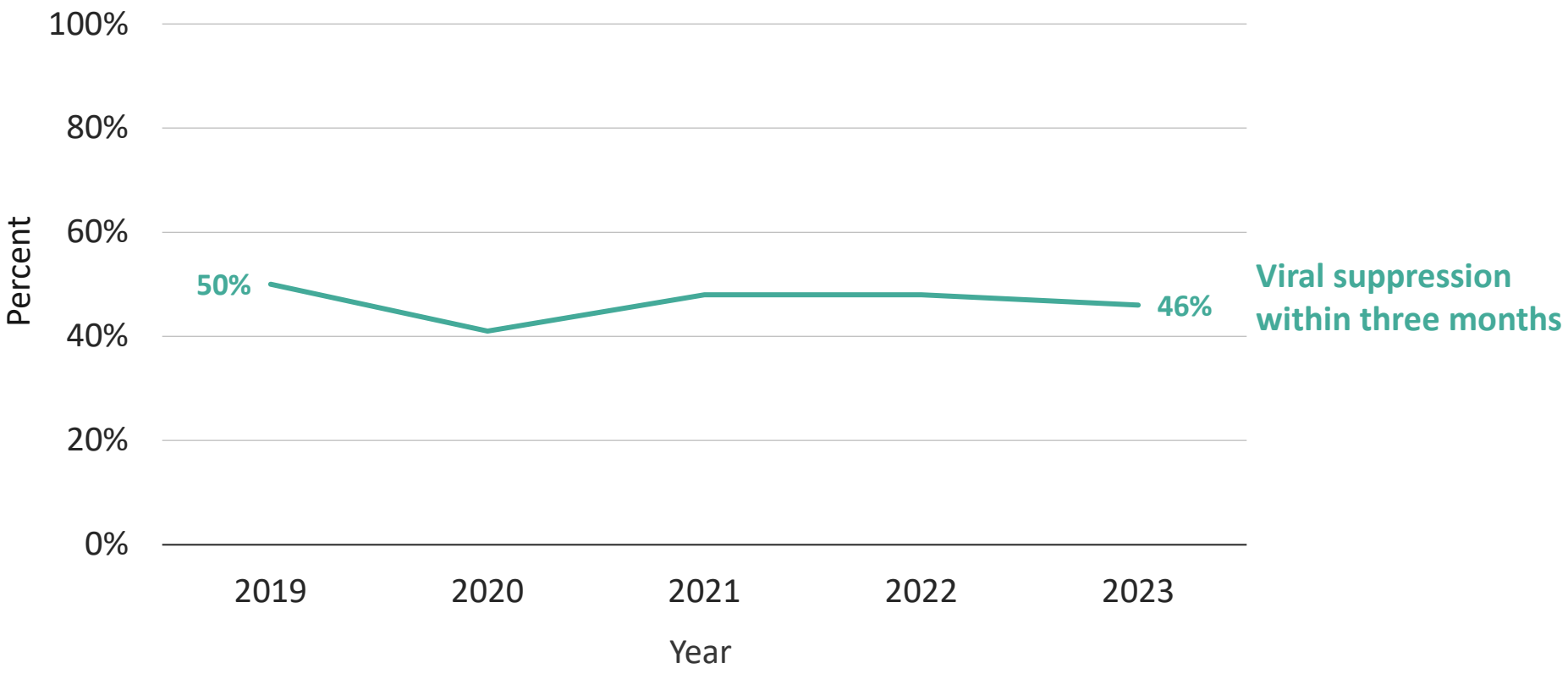
Timely Initiation of Care[1] After Diagnosis Among People Aged 50 or More Years in New York City by United Hospital Fund Neighborhood, 2023



The neighborhoods with the lowest proportions of people aged 50 or more years linked to care within 30 days were Canarsie – Flatlands (62%), Washington Heights – Inwood (63%), and High Bridge – Morrisania (64%).

[1]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.
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

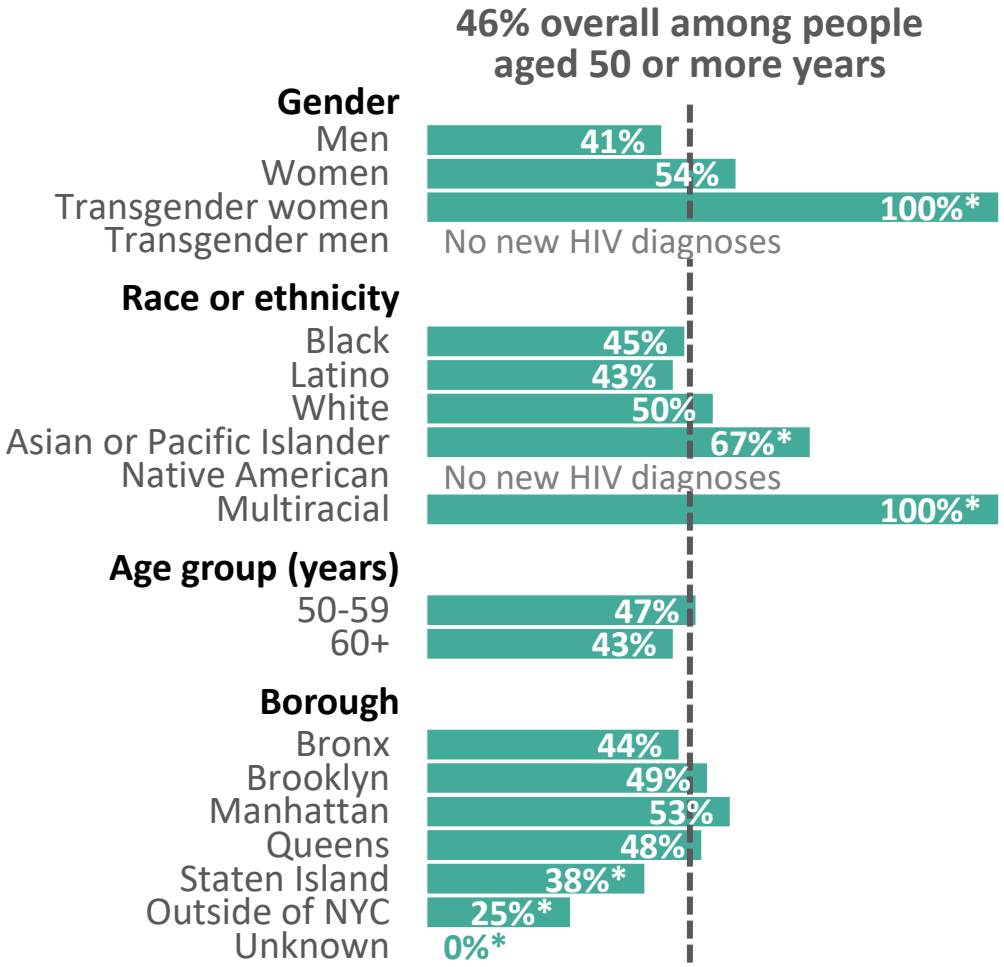
Viral Suppression[1] Within Three Months of Diagnosis Among People Aged 50 or More Years in New York City, 2019-2023

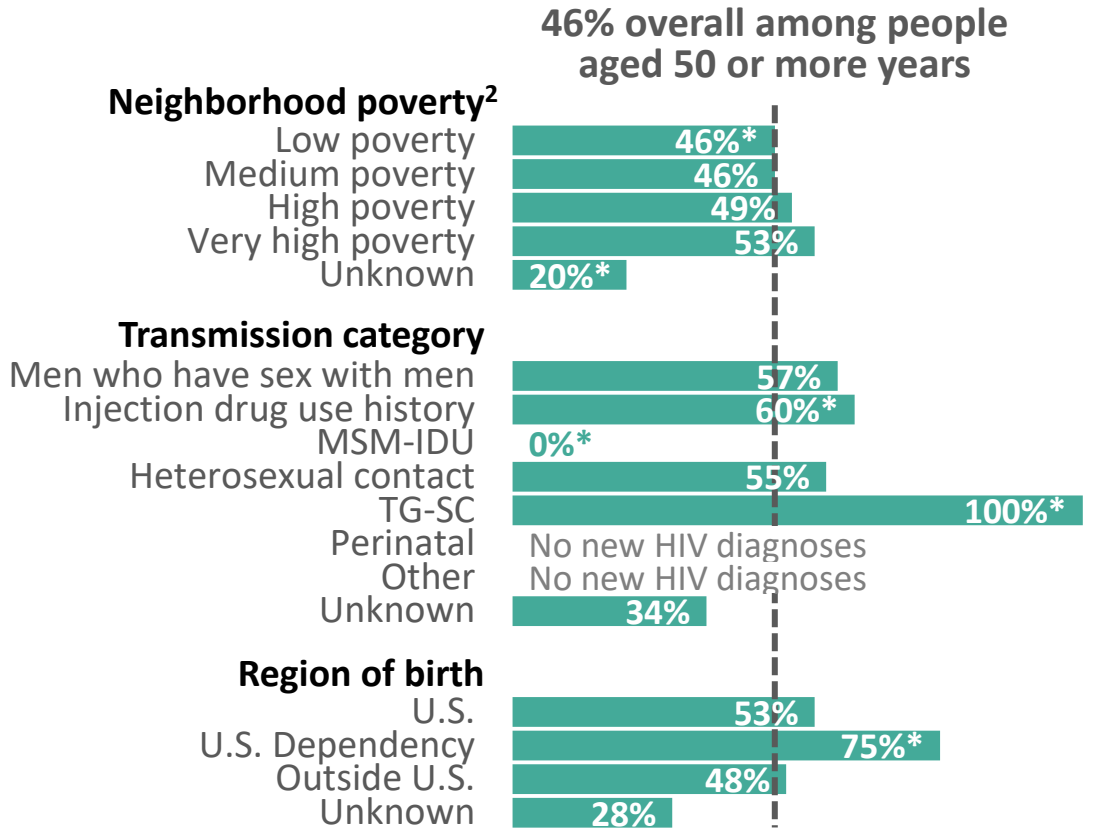


Viral suppression within three months of an HIV diagnosis among people aged 50 or more years remained relatively flat in New York City from 2019 to 2023.

[1]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.
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

Viral Suppression[1] Within Three Months of Diagnosis Among People Aged 50 or More Years in New York City by Demographic Group, 2023





Differences in viral suppression within three months of an HIV diagnosis exist across demographic groups among people aged 50 or more years.

*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.
[1]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.
[2]Neighborhood 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.
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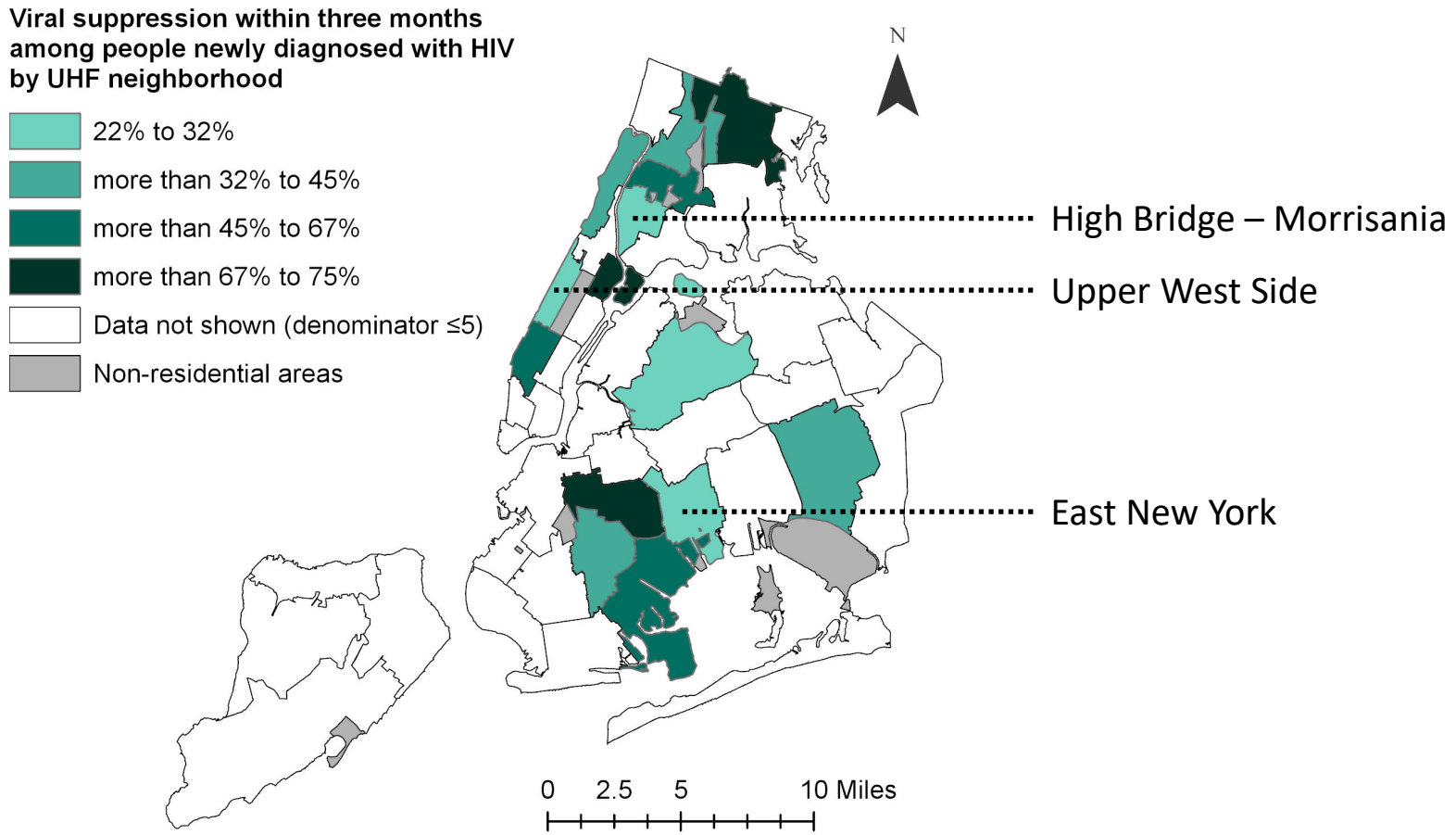
Viral Suppression[1] Within Three Months of Diagnosis Among People Aged 50 or More Years in New York City by United Hospital Fund Neighborhood, 2023



The neighborhoods with the lowest proportions of people aged 50 or more years virally suppressed within three months of an HIV diagnosis were the Upper West Side (22%), High Bridge – Morrisania (27%), and East New York (27%).

[1]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.
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

Care Outcomes Among People With HIV Aged 50 or More Years

New York City

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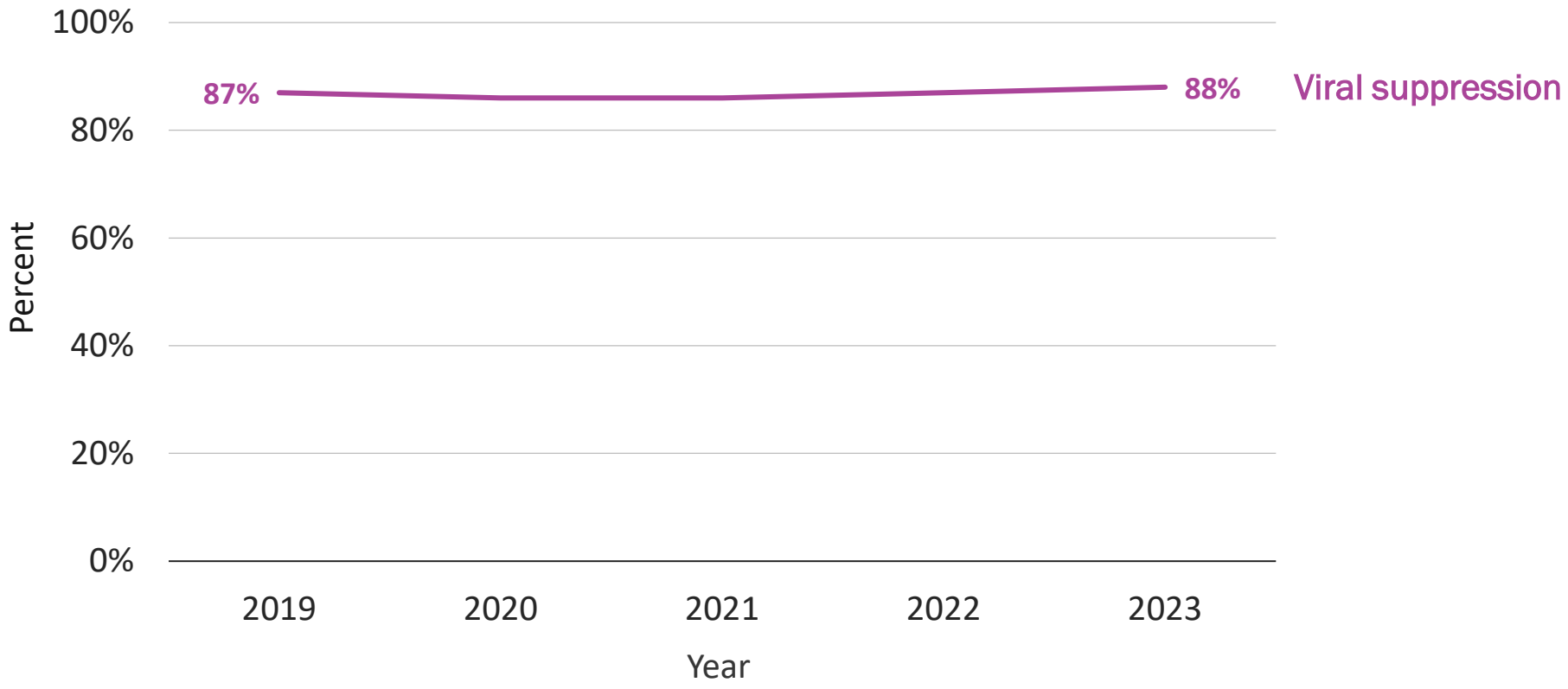
Viral Suppression[1] Among People Diagnosed With HIV[2] Aged 50 or More Years in New York City, 2019-2023



Viral suppression among people aged 50 or more years remained relatively stable from 2019 to 2023.

[1]Viral suppression is defined as the last HIV viral load in the calendar year <200 copies/mL.
[2]People diagnosed with HIV and viral suppression were calculated using the statistical weighting method. For more details and references, see Technical Notes.
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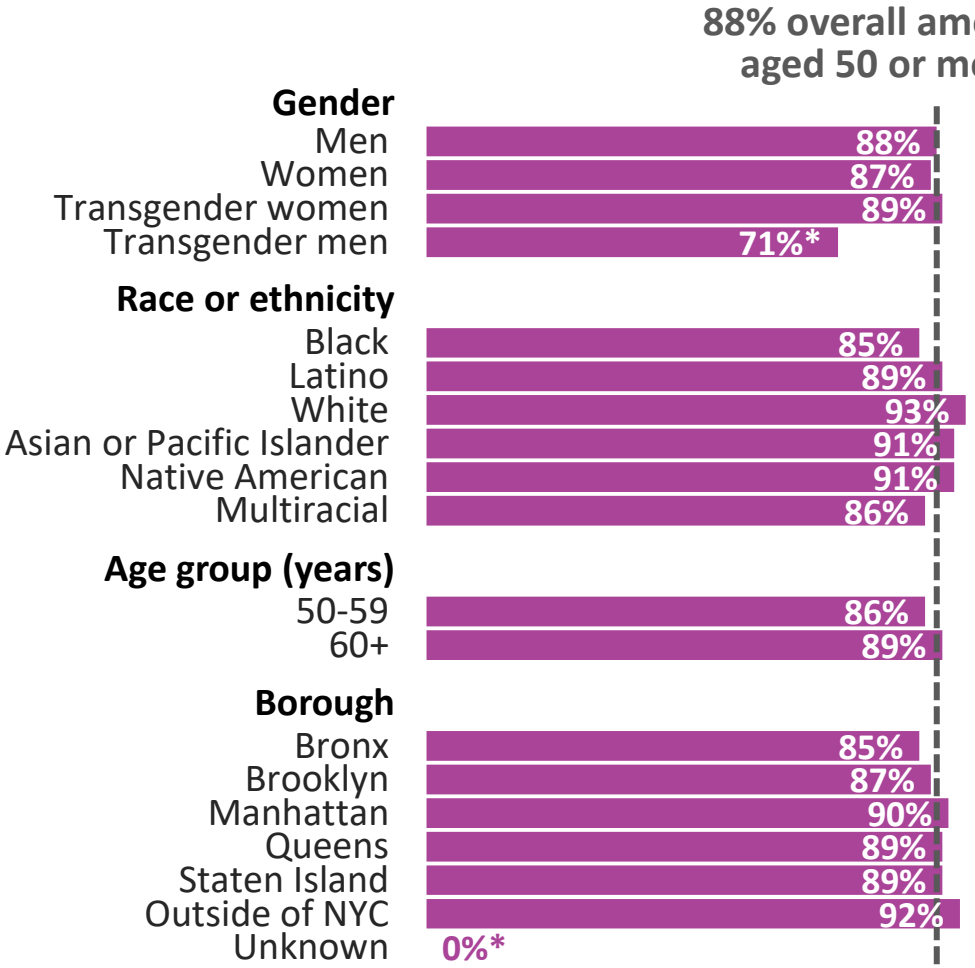
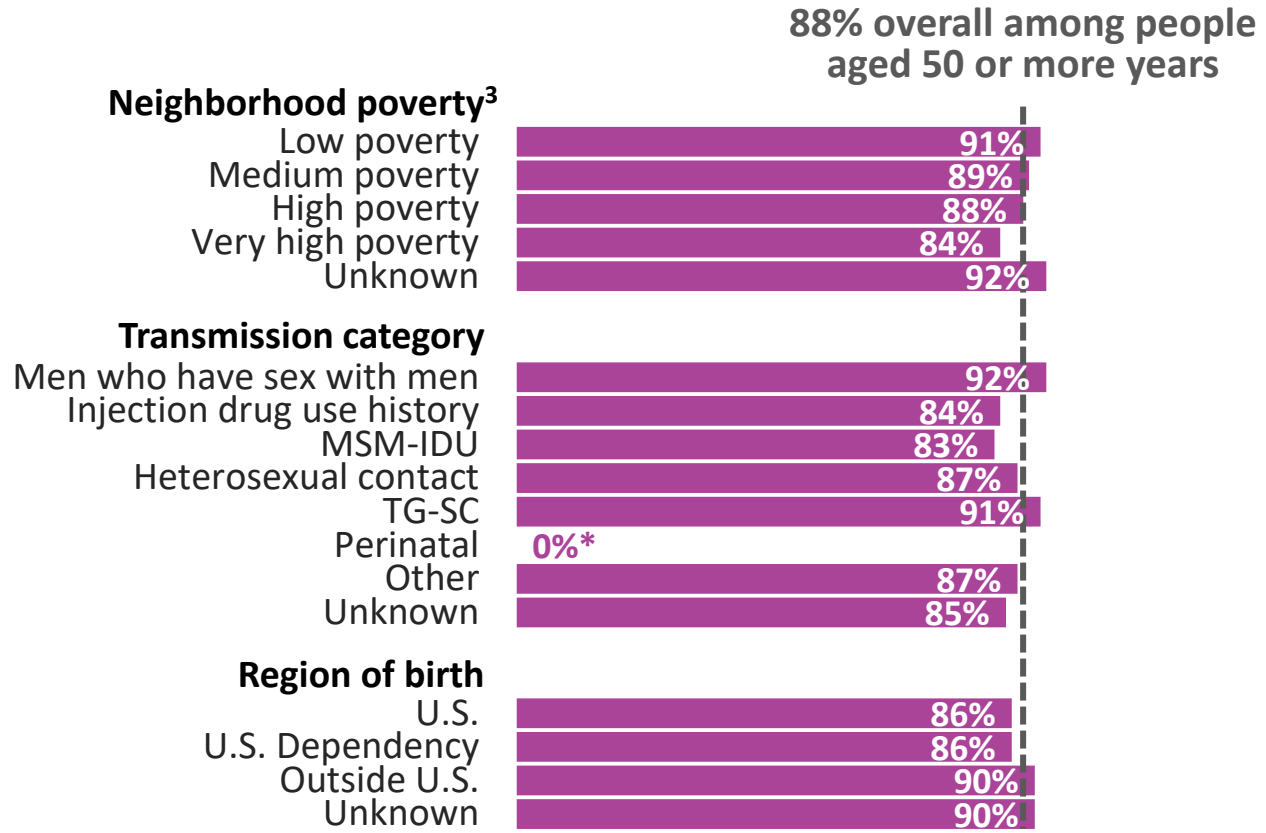
Viral Suppression[1] Among People Diagnosed With HIV[2] Aged 50 or More Years in New York City by Demographic Group, 2023





Differences in viral suppression exist across demographic groups among people aged 50 or more years.

*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.
[1]Viral suppression is defined as the last HIV viral load in the calendar year <200 copies/mL. People diagnosed at death have been excluded.
[2]People diagnosed with HIV and viral suppression were calculated using the statistical weighting method. For more details and references, see Technical Notes.
[3]Neighborhood 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.
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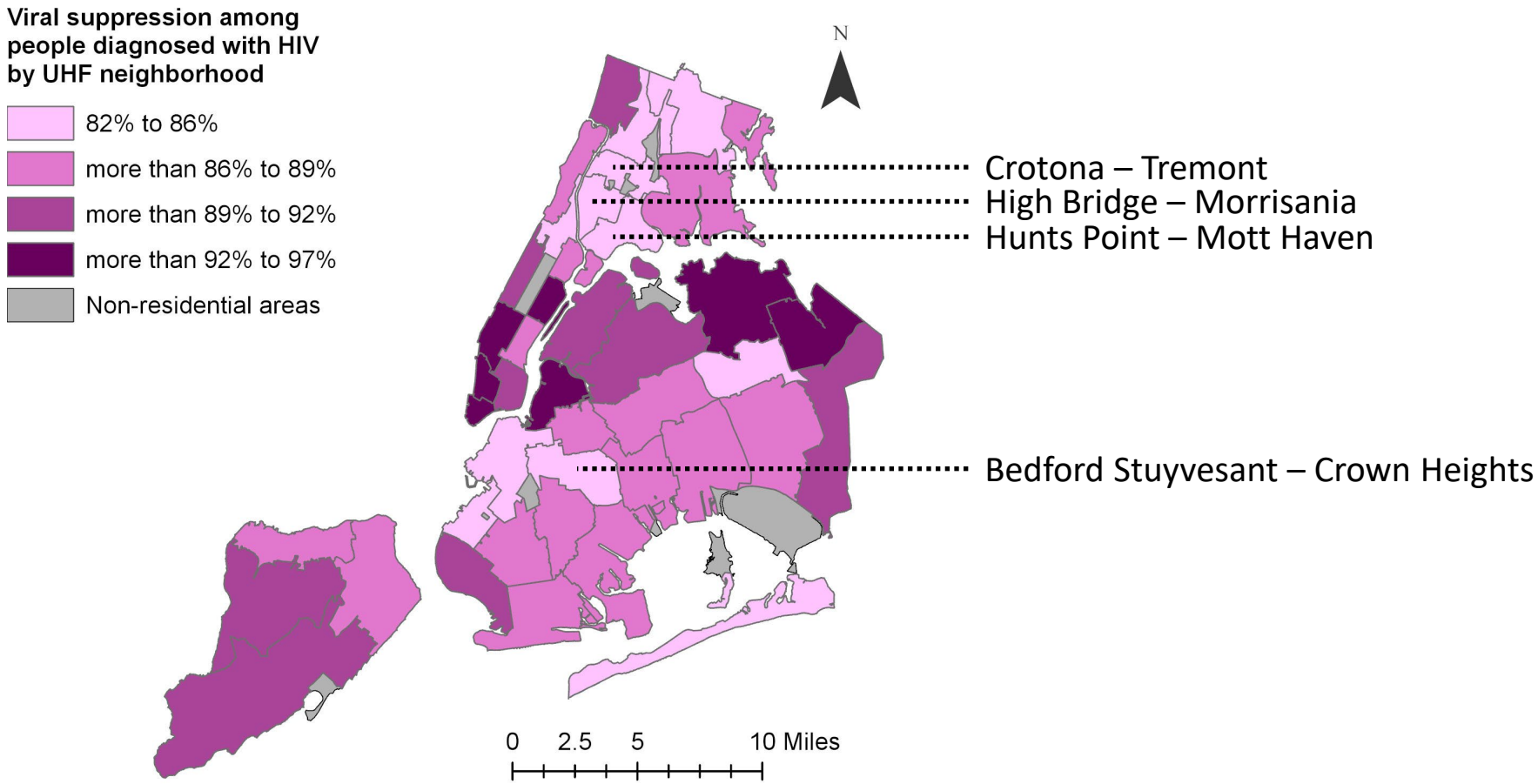
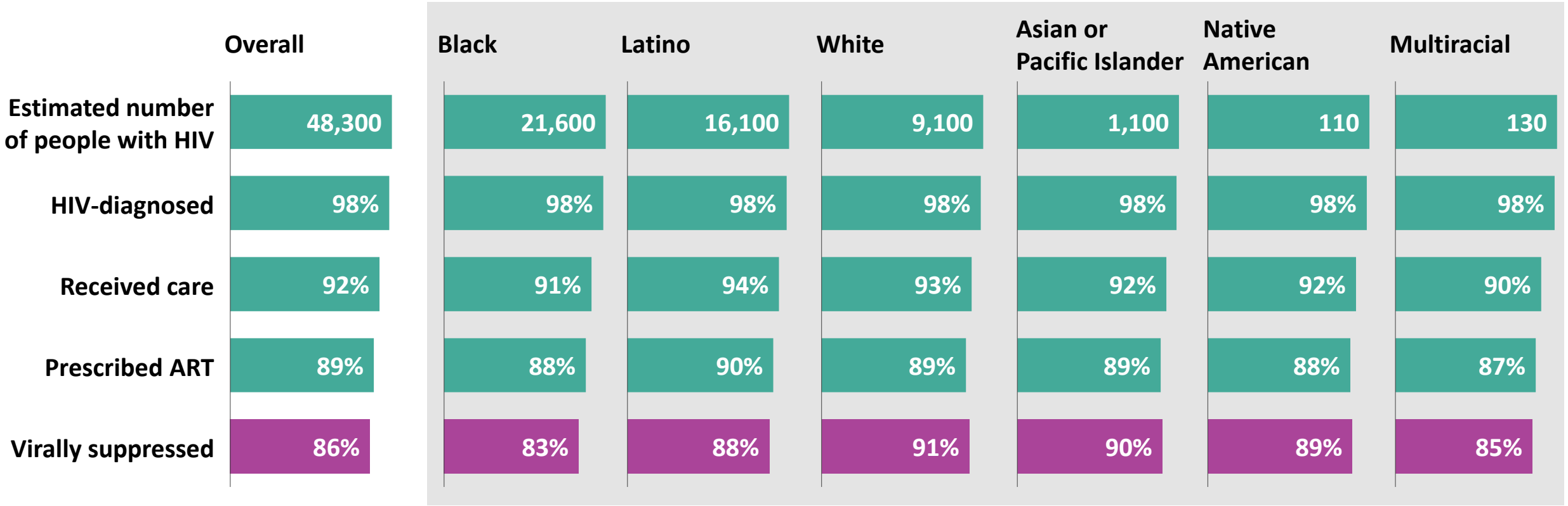
Viral Suppression[1] Among People Diagnosed With HIV[2] Aged 50 or More Years in New York City by United Hospital Fund Neighborhood, 2023



The neighborhoods with the lowest proportions of virally suppressed people aged 50 or more years were Crotona – Tremont (82%), Hunts Point – Mott Haven (83%), Bedford Stuyvesant – Crown Heights (84%), and High Bridge – Morrisania (84%).

[1]Viral suppression is defined as the last HIV viral load in the calendar year <200 copies/mL.
[2]People diagnosed with HIV and viral suppression were calculated using the statistical weighting method. For more details and references, see Technical Notes.
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

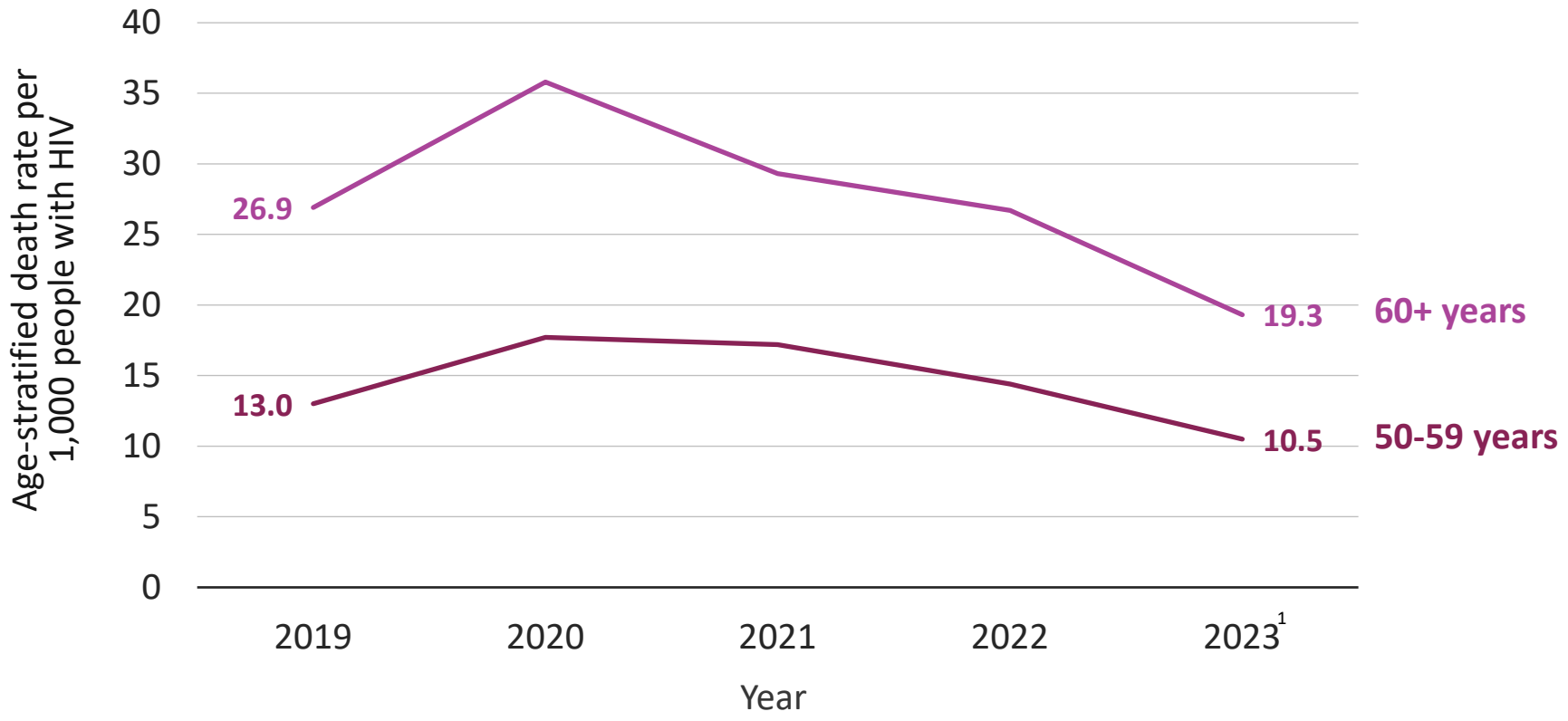
Proportion of People With HIV Aged 50 or More Years in Stages of the HIV Care Continuum[1,2] in New York City Overall and by Race or Ethnicity,[3] 2023



Of approximately 48,300 people with HIV aged 50 or more years in 2023, 86% had a suppressed viral load.
There were inequities in the HIV care continuum among people aged 50 or more years by race or ethnicity in 2023 in New York City.

[1]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.
[2]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)
[3]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, 2024.

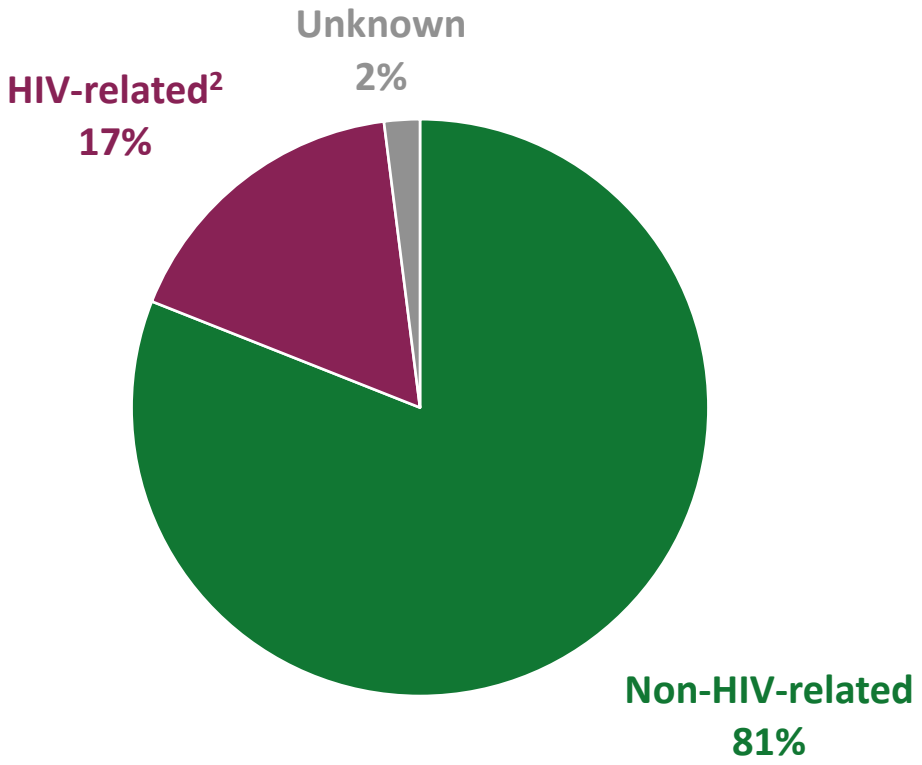
Death Rate per 1,000 People With HIV Aged 50 or More Years in New York City by Age Group, 2019-2023



Between 2019 and 2023, the death rates by age group among people with HIV aged 50 or more years peaked in 2020 and subsequently declined.

[1]Death data for 2023 are incomplete.
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

Proportion of Deaths Among People With HIV Aged 50 or More Years in New York City by Cause of Death, 2022[1]



In 2022, 81% of deaths among people with HIV aged 50 or more years were due to non-HIV-related causes. Among these, the top causes were cardiovascular disease (25%), non-HIV-related cancers (21%), and accidents (8%).

[1]Cause of death data are not yet available for 2023.
[2]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://www.nyc.gov/assets/doh/downloads/pdf/vs/2021sum.pdf.
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2024.

Appendix: How to Find Our Data

The New York City Department of Health and Mental Hygiene (NYC Health Department) issues the various publications related to our HIV surveillance data, including:

- **Annual HIV surveillance reports, surveillance slide sets,** and **statistics tables**, *available at*: https://www.nyc.gov/site/doh/data/data-sets/hiv-aids-surveillance-and-epidemiology-reports.page
- **HIV Care Status Reports**, *available at:* https://www.nyc.gov/site/doh/health/health-topics/aids-hiv-care-status-reports-system.page
- **HIV Care Continuum Dashboards**, *available at:* https://www.nyc.gov/site/doh/health/health-topics/care-continuum-dashboard.page

For HIV surveillance data requests, email HIVReport@health.nyc.gov. Please allow a minimum of two weeks for requests to be completed.

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Appendix: Definitions and Methodology 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. 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.

Methodology 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.

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Appendix: Technical Notes on the HIV Care Continuum

- **People with HIV** is calculated as the number of people diagnosed with 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 ≥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.

Appendix: Acknowledgements

This report was prepared by the HIV Epidemiology Program in the NYC Health Department's Bureau of Hepatitis, HIV, and Sexually Transmitted Infections. We would like to acknowledge staff in the HIV Epidemiology Program's Surveillance Unit, ACE Team, Core HIV Surveillance Special Projects, and Data Support Unit, whose work is the foundation of this report.

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