

# HIV AMONG PEOPLE BORN OUTSIDE OF THE U.S. IN NEW YORK CITY, 2021



HIV Epidemiology Program

New York City Department of Health and Mental Hygiene



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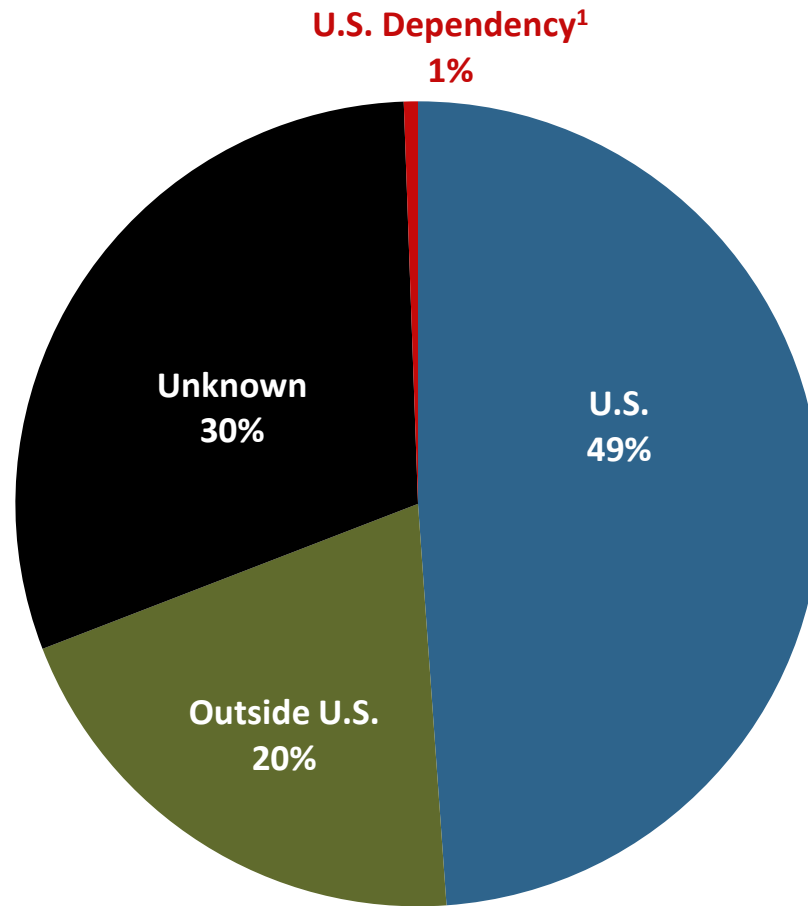
# PEOPLE BORN OUTSIDE OF THE U.S. IN NYC

## BASIC STATISTICS

- People born outside of the U.S. refers to people known to have been born outside of the U.S. and U.S. dependencies<sup>1</sup>
- **35% of the NYC population was born outside of the U.S.**
  - Approximately 3 million of 8.8 million residents of New York City in 2020 were born outside the U.S.
- The national proportion of people born outside of the U.S. is lower than New York City
  - In 2020, 13% of the U.S. population was born outside of the U.S.
- **People born outside of the U.S. who live in NYC come from many countries**
  - The most-represented regions are the Caribbean, Asia, Mexico and Central America, South America, and Europe

<sup>1</sup>People from Puerto Rico and other U.S. dependencies (Virgin Islands, Guam) are not considered people born outside of the U.S.  
Sources: U.S. Census 2020, American Community Survey 2020.

# NEW HIV DIAGNOSES BY REGION OF BIRTH, NYC 2021



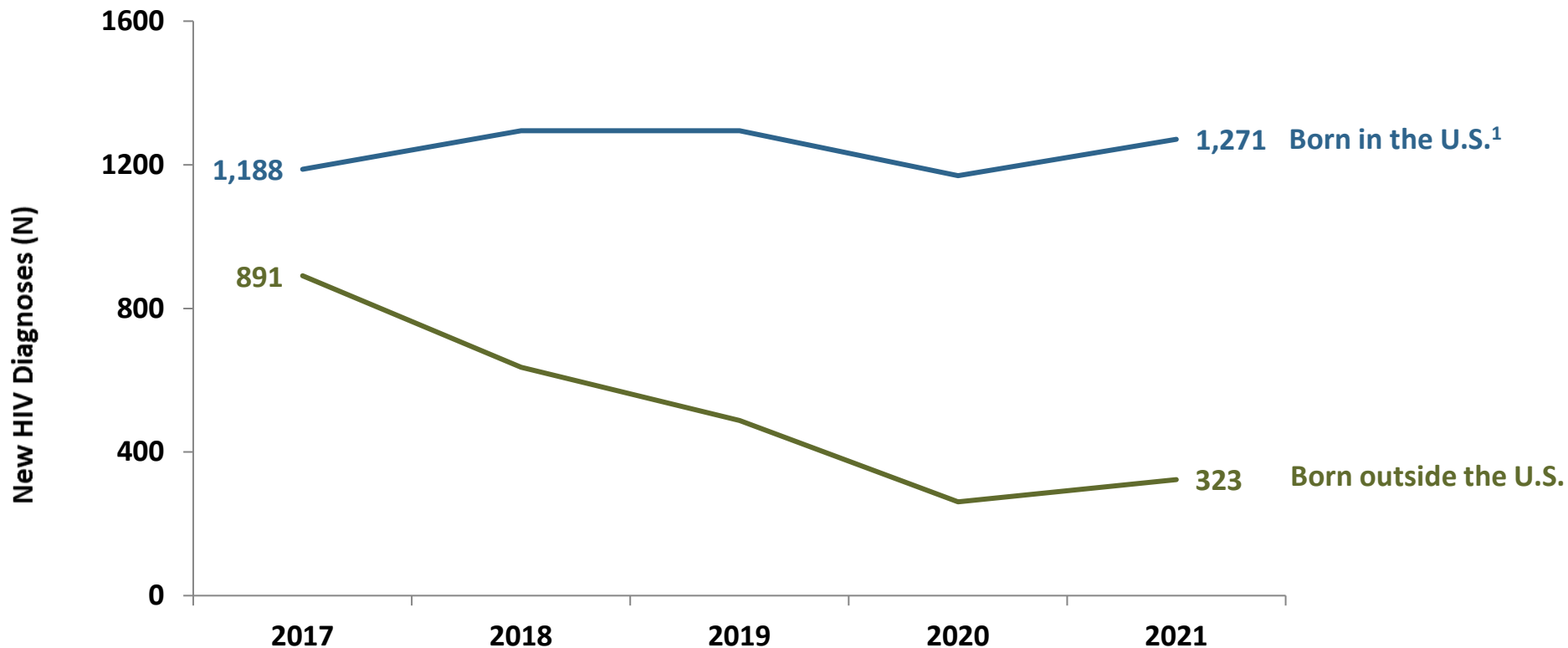
**In 2021, 1,594 people were newly diagnosed with HIV in NYC. Of these, 323 (20.3%) were born outside of the U.S.**

# COMPARING NEW YORKERS WITH NEW HIV DIAGNOSES BY REGION OF BIRTH, 2021

<b>All New Yorkers</b>	<b>35% were born outside of the U.S.<sup>1</sup></b>
<b>New Yorkers newly diagnosed with HIV</b>	<b>20% were born outside of the U.S.</b>

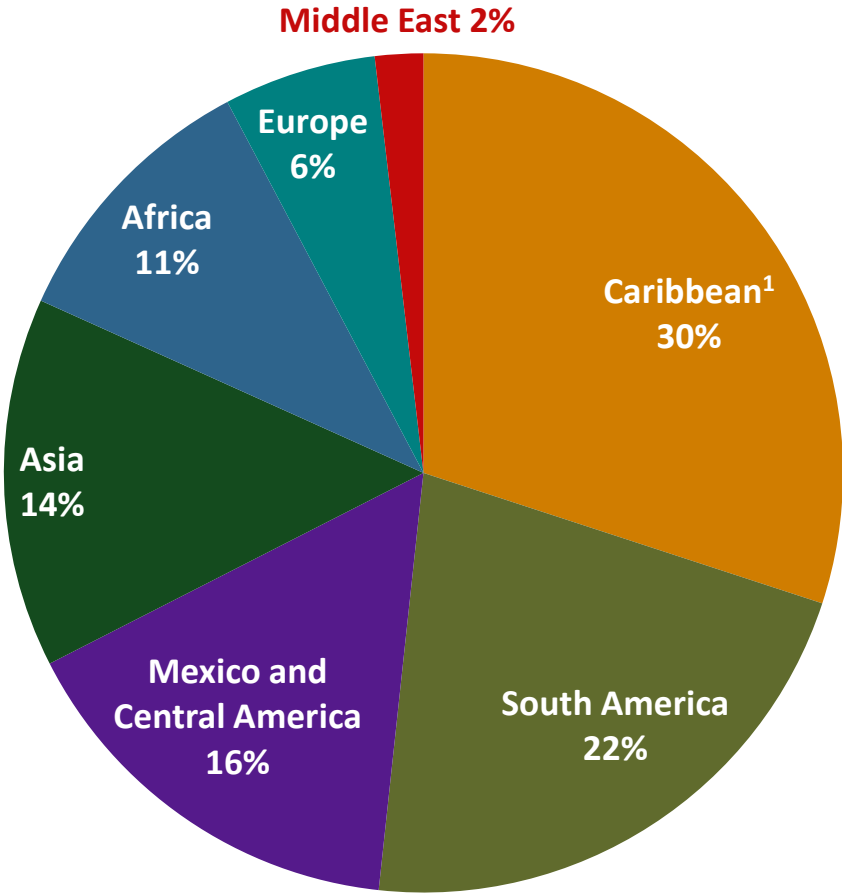
**People born outside of the U.S. make up approximately 35% of all New Yorkers, and 20% of New Yorkers newly diagnosed with HIV in 2021.**

# NUMBER OF NEW HIV DIAGNOSES BY REGION OF BIRTH, NYC 2017-2021



**Between 2017 and 2021, new HIV diagnoses declined among New Yorkers born outside of the U.S. New HIV diagnoses among New Yorkers born in the U.S.<sup>1</sup> have remained relatively stable.**

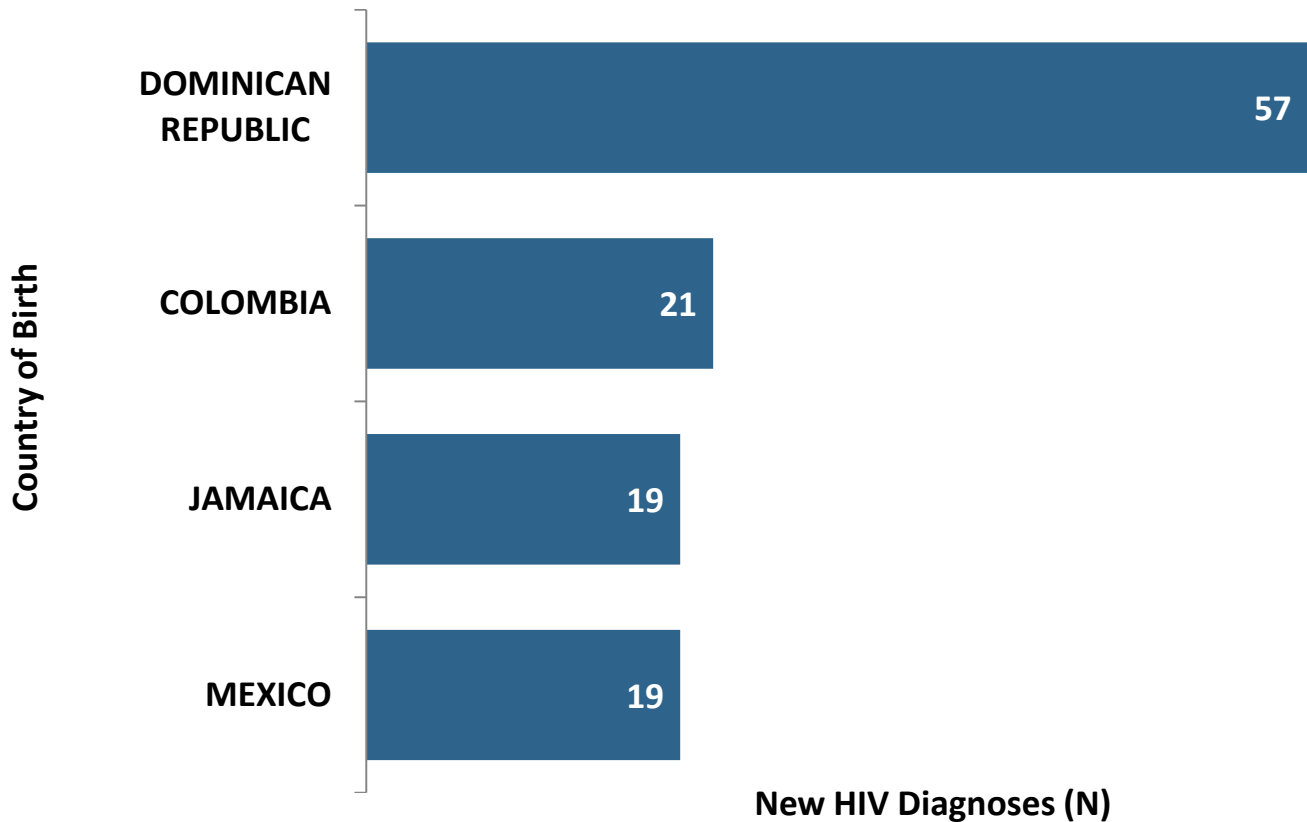
# PERCENTAGE OF NEW HIV DIAGNOSES AMONG PEOPLE BORN OUTSIDE THE U.S. BY REGION OF BIRTH, NYC 2021



**New Yorkers born outside of the U.S. and newly diagnosed with HIV in 2021 were born in many different regions. Nearly one third were born in the Caribbean.<sup>1</sup>**

<sup>1</sup>Excludes Puerto Rico and the U.S. Virgin Islands.  
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2022.

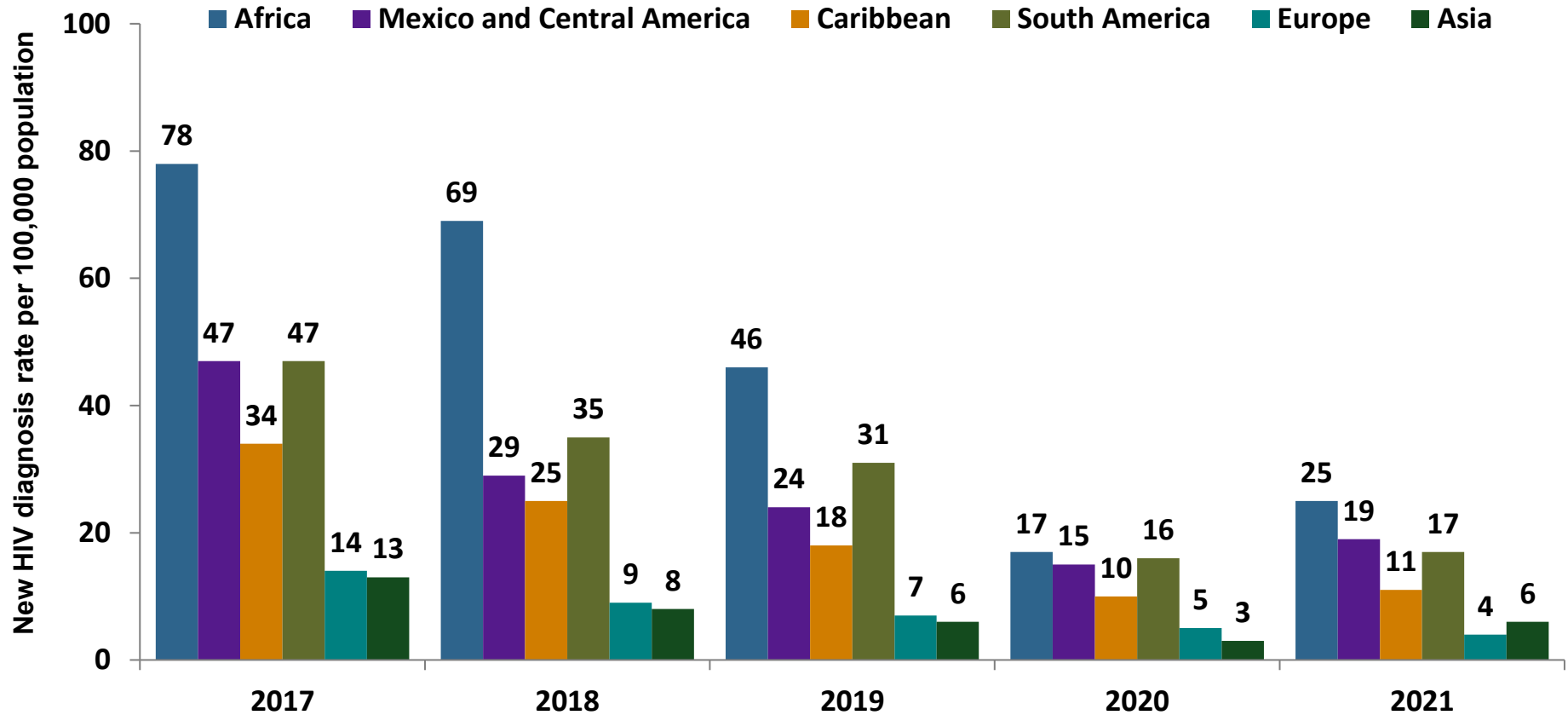
# MOST FREQUENTLY REPORTED COUNTRIES OF BIRTH AMONG PEOPLE BORN OUTSIDE OF THE U.S. AND NEWLY DIAGNOSED WITH HIV, NYC 2021



Among New Yorkers born outside of the U.S. and newly diagnosed with HIV in 2021, the most frequently reported countries of birth were the Dominican Republic, Colombia, Jamaica, and Mexico.

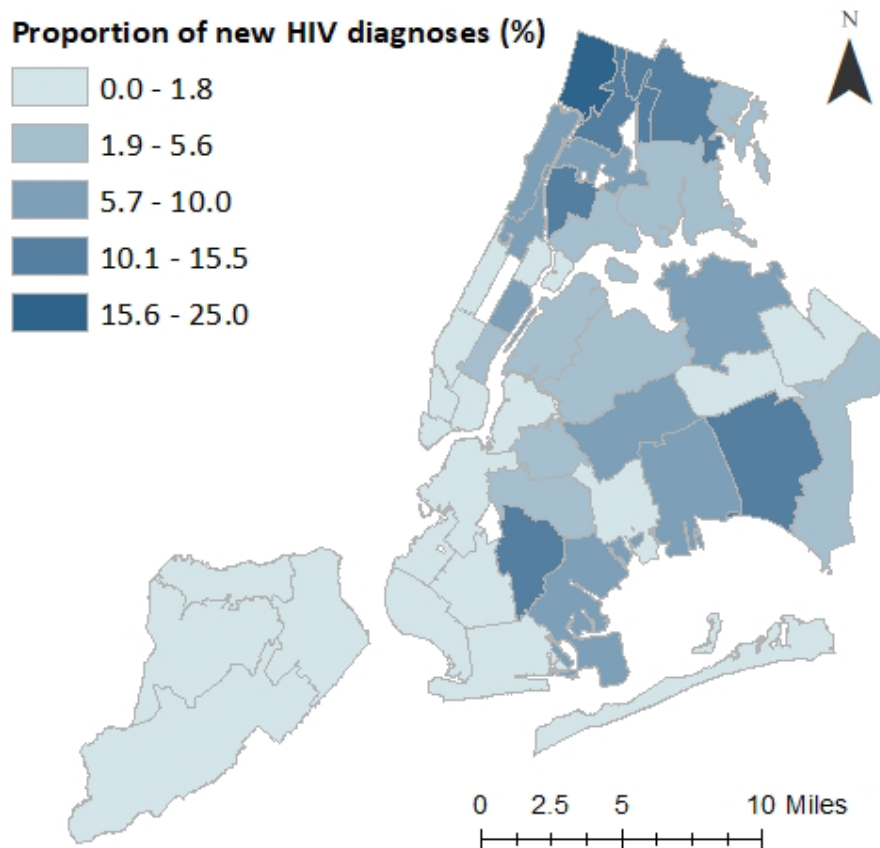


# RATES OF NEW HIV DIAGNOSES AMONG PEOPLE BORN OUTSIDE OF THE U.S. BY REGION OF BIRTH, NYC 2017-2021



Between 2017 and 2020, new HIV diagnosis rates declined among people born in all regions outside of the U.S. Diagnosis rates increased in 2021.

# NEW HIV DIAGNOSES<sup>1</sup> AMONG PEOPLE BORN IN THE CARIBBEAN BY UHF<sup>2</sup>, NYC 2021



**Kingsbridge-Riverdale is the UHF with the highest percent of its new HIV diagnoses born in the Caribbean (25%).**

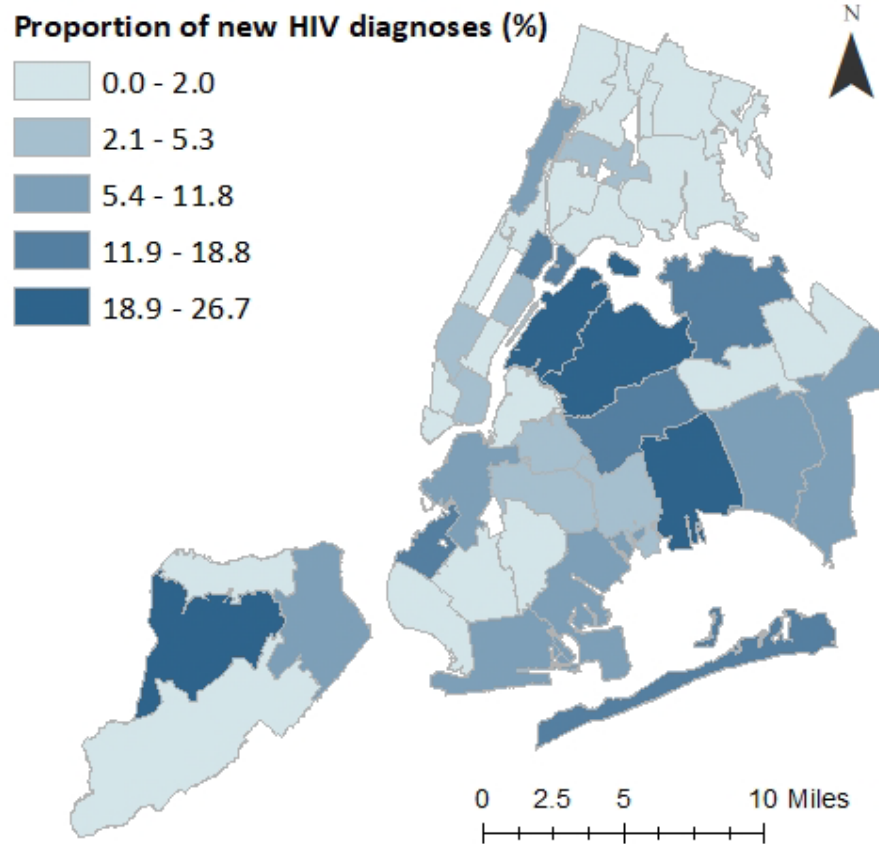
UHF=United Hospital Fund Neighborhood

<sup>1</sup>There were 97 new HIV diagnoses among people born in the Caribbean in the calendar year; due to missing address data and people living outside NYC, data for 89 people are displayed on map.

<sup>2</sup>Rikers Island is classified with the UHF neighborhood of West Queens.

As reported to the New York City Department of Health and Mental Hygiene by March 31, 2022.

# NEW HIV DIAGNOSES<sup>1</sup> AMONG PEOPLE BORN IN MEXICO, CENTRAL AMERICA, OR SOUTH AMERICA BY UHF<sup>2</sup>, NYC 2021



**West Queens is the UHF with the highest percent of its new HIV diagnoses born in Mexico, Central America, or South America (27%).**

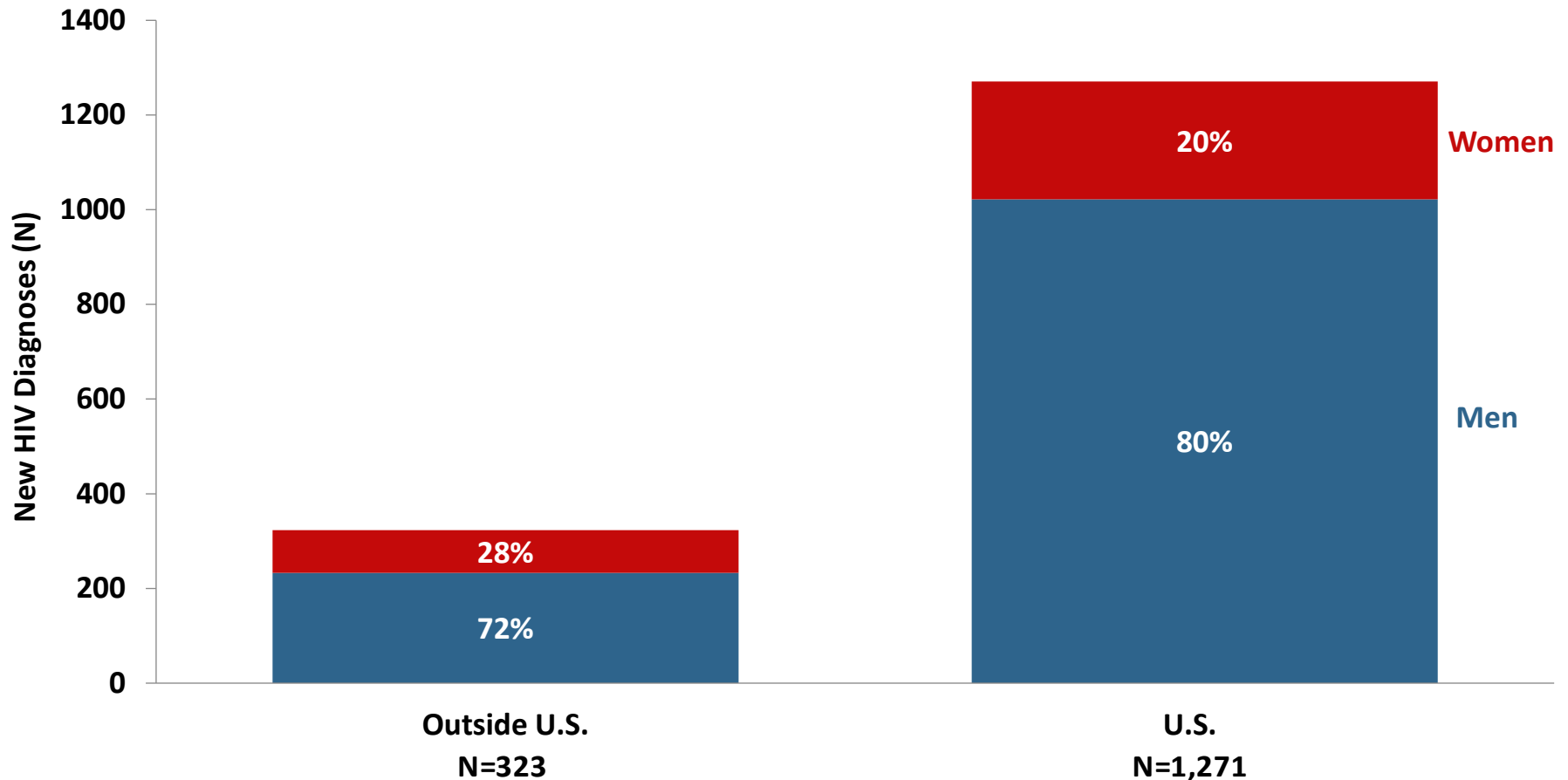
UHF=United Hospital Fund Neighborhood

<sup>1</sup>There were 121 new HIV diagnoses among people born in Mexico, Central America, or South America; due to missing address data and people living outside NYC, data for 98 people are displayed on map.

<sup>2</sup>Rikers Island is classified with the UHF neighborhood of West Queens.

As reported to the New York City Department of Health and Mental Hygiene by March 31, 2022.

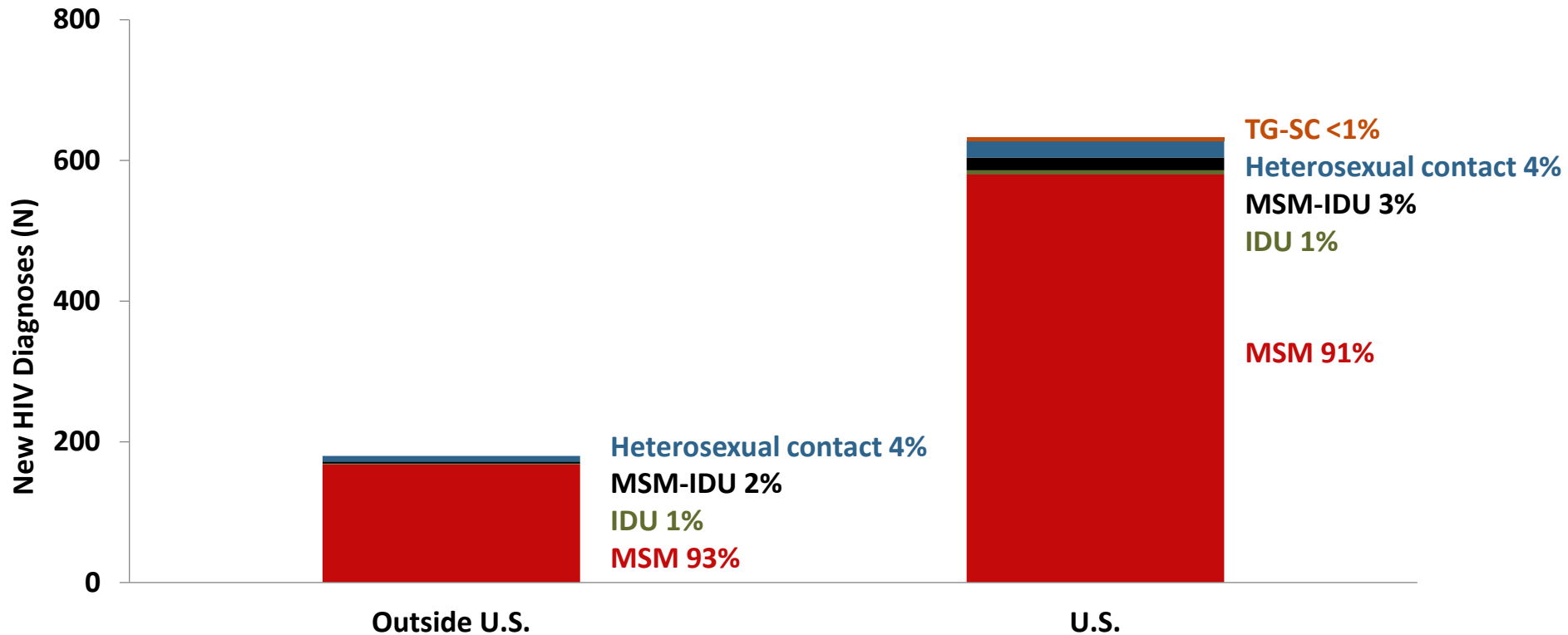
# NEW HIV DIAGNOSES BY GENDER AND REGION OF BIRTH, NYC 2021



**In 2021, men comprised a higher proportion of HIV diagnoses for both people born outside of the U.S. and in the U.S.<sup>1</sup>**

<sup>1</sup>People newly diagnosed with an unknown country of birth are included in the U.S. category.  
Women includes transgender women and men includes transgender men.  
As reported to the New York City Department of Health and Mental Hygiene by March 31, 2022.

# NEW HIV DIAGNOSES AMONG MEN BY REGION OF BIRTH AND TRANSMISSION CATEGORY, NYC 2021



**In 2021 among men newly diagnosed with HIV with a known transmission category, men who have sex with men made up similar proportions among people born outside of the U.S. and in the U.S.<sup>1</sup>**

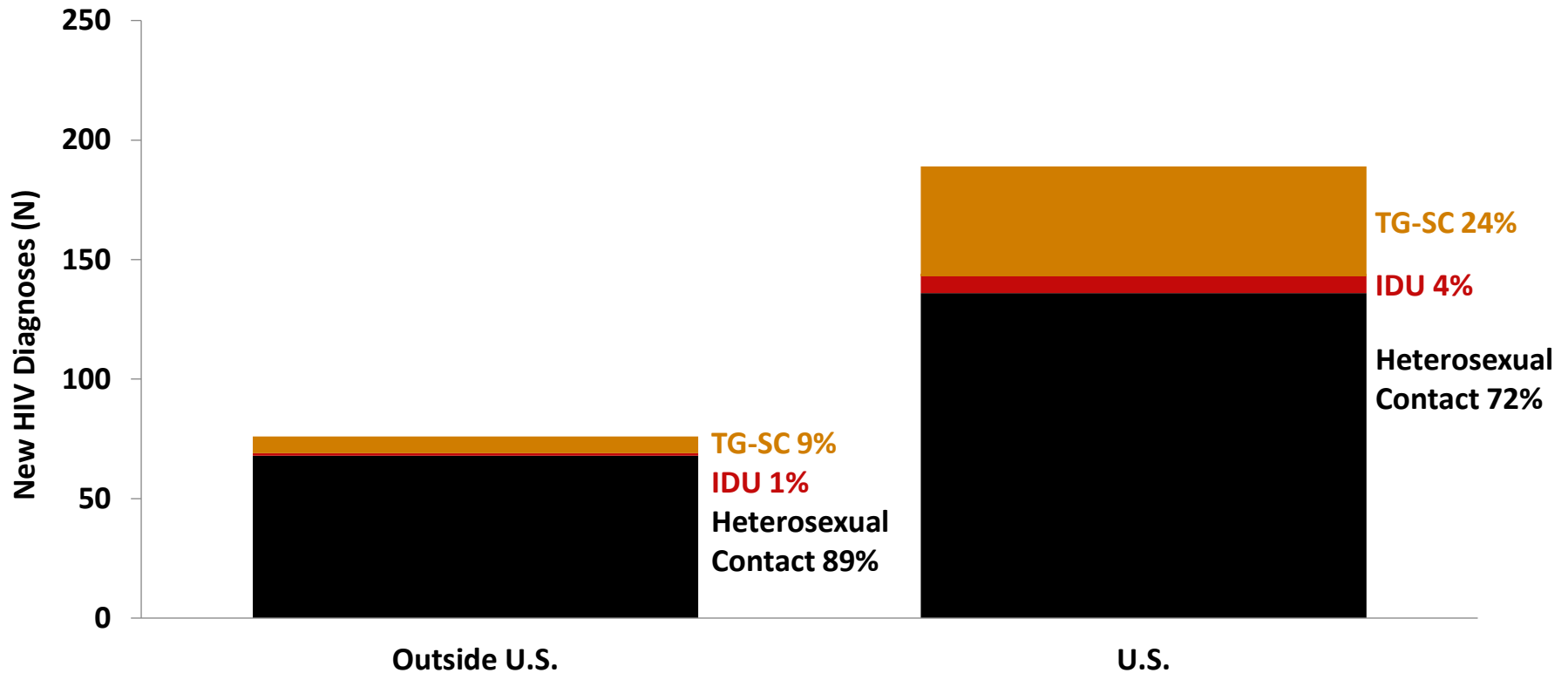
Men includes transgender men. MSM=Men who have sex with men; IDU=history of injection drug use; TG-SC=transgender people with sexual contact.

<sup>1</sup>People newly diagnosed with an unknown country of birth are included in the U.S. category.

Unknown transmission category is not displayed and was not included in percent calculations. There were 53 men born outside the U.S. and 388 men born in the U.S. who were newly diagnosed with HIV who had an unknown transmission category in 2021.

As reported to the New York City Department of Health and Mental Hygiene by March 31, 2022.

# NEW HIV DIAGNOSES AMONG WOMEN BY REGION OF BIRTH AND TRANSMISSION CATEGORY, NYC 2021



**In 2021 among women newly diagnosed with HIV with a known transmission category, 89% of women born outside of the U.S. and 72% of women born in the U.S.<sup>1</sup> had heterosexual contact as their transmission category.**

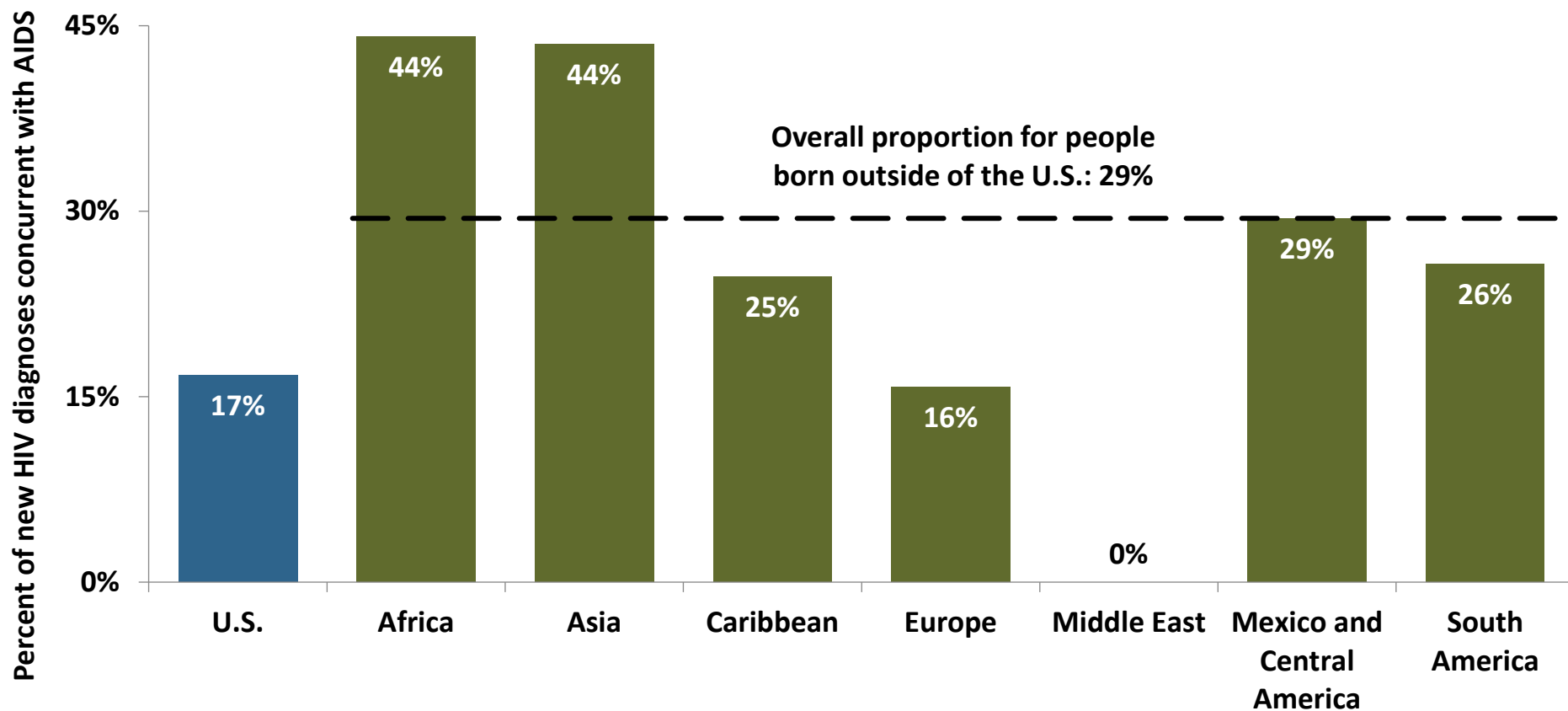
Women includes transgender women. IDU=history of injection drug use; TG-SC=Transgender people with sexual contact.

<sup>1</sup>People newly diagnosed with an unknown country of birth are included in the U.S. category.

Unknown transmission category is not displayed and was not included in percent calculations. There were 14 women born outside of the U.S. and 60 women born in the U.S. who were newly diagnosed with HIV who had an unknown transmission category in 2021.

As reported to the New York City Department of Health and Mental Hygiene by March 31, 2022.

# CONCURRENT DIAGNOSIS<sup>1</sup> OF HIV/AIDS BY REGION OF BIRTH, NYC 2021



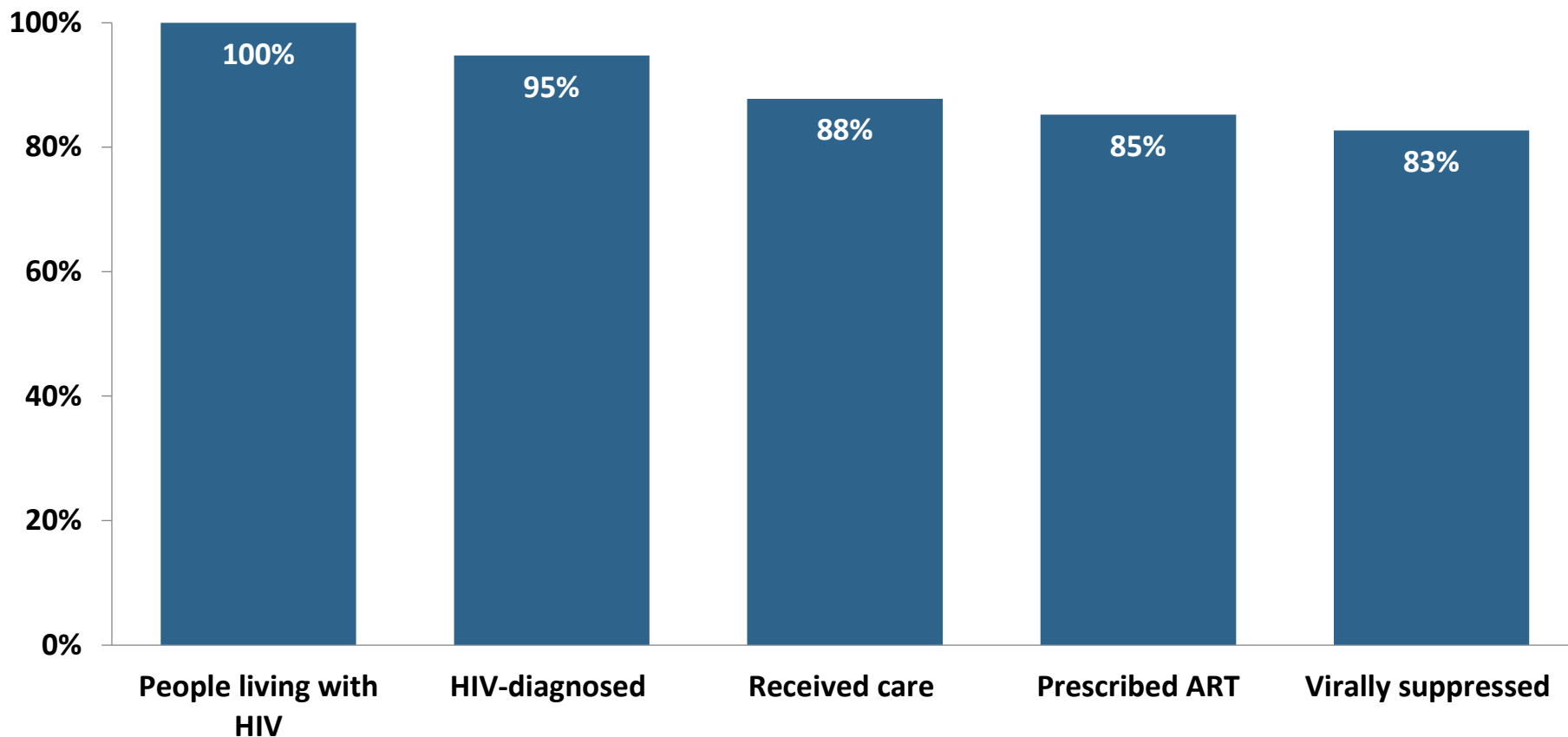
**New Yorkers born outside of the U.S. from almost all regions were more frequently diagnosed concurrently with HIV and AIDS than New Yorkers born in the U.S.<sup>2</sup>**

<sup>1</sup>AIDS diagnosis within 31 days of HIV diagnosis.

<sup>2</sup>People newly diagnosed with an unknown country of birth are included in the U.S. category.

As reported to the New York City Department of Health and Mental Hygiene by March 31, 2022.

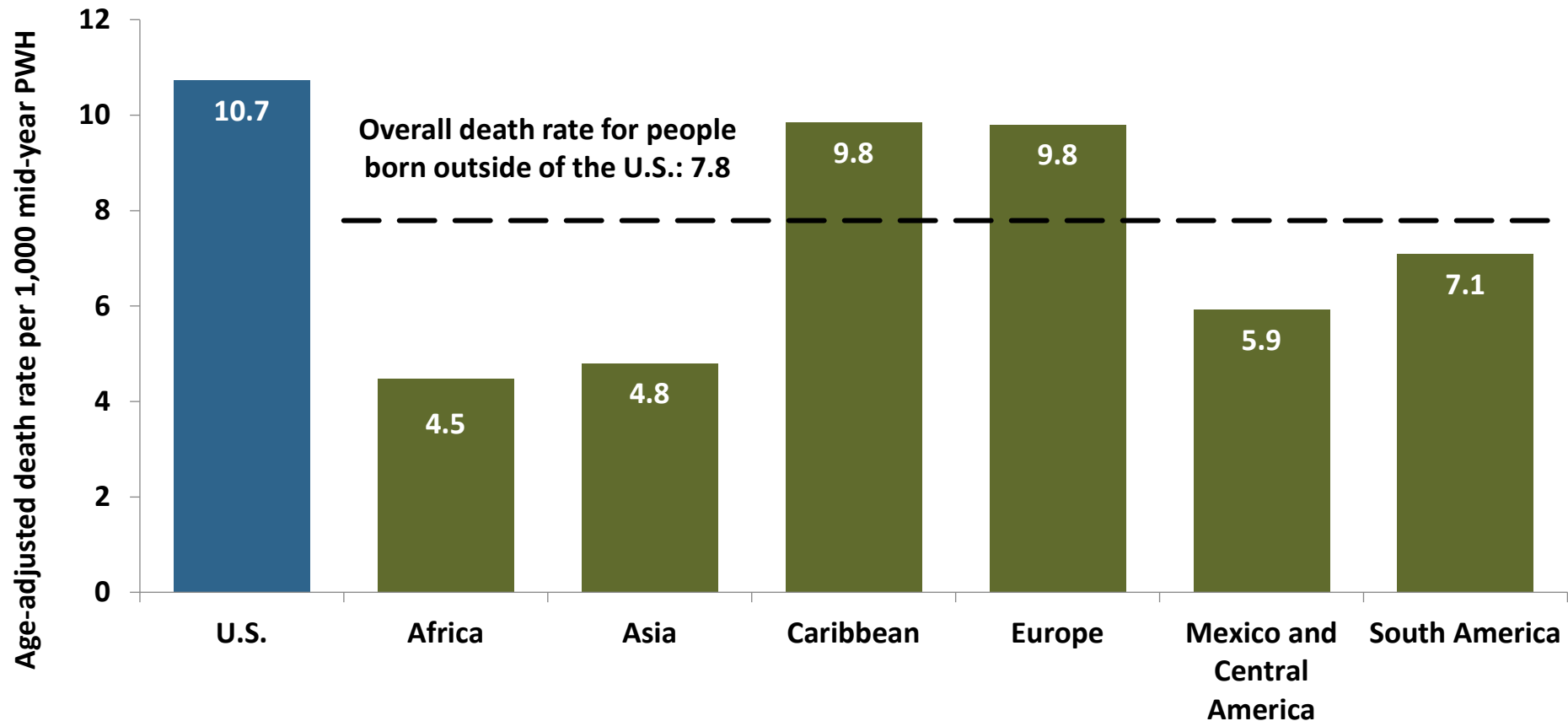
# PROPORTION OF PLWH BORN OUTSIDE OF THE U.S. ENGAGED IN SELECTED STAGES OF THE HIV CARE CONTINUUM IN NYC, 2021



**Of the approximately 19,620 people living with HIV (PLWH) born outside of the U.S. and living in NYC in 2021, 83% had a suppressed viral load, compared to 77% virally suppressed for PLWH born in the U.S.**



# AGE-ADJUSTED DEATH RATES<sup>1</sup> AMONG PEOPLE BORN OUTSIDE OF THE U.S. BY REGION OF BIRTH, NYC 2021



The overall death rate among people with HIV born outside of the U.S. was lower than the rate for people with HIV born in the U.S.<sup>2</sup> Death rates varied by region, with the lowest rates among people born in Africa or Asia.

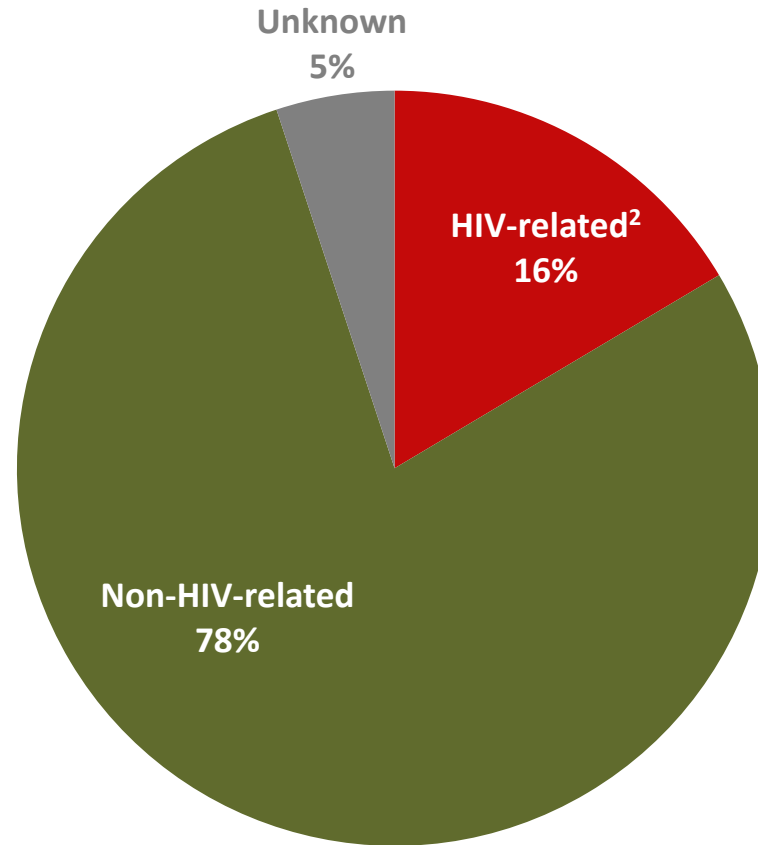
<sup>1</sup>Death rates are age-adjusted to the NYC Census 2010 population. Death data for 2021 are incomplete.

<sup>2</sup>People newly diagnosed with an unknown country of birth are included in 'people born in the U.S.' category.

Middle East not shown. There were <5 deaths among people with HIV/AIDS born in the Middle East in 2021.

As reported to the New York City Department of Health and Mental Hygiene by March 31, 2022.

# CAUSE OF DEATH AMONG PEOPLE WITH HIV BORN OUTSIDE OF THE U.S., NYC 2020<sup>1</sup>



**In 2020, 78% of deaths among people with HIV born outside of the U.S. were due to non-HIV-related causes. Among these, the top causes were COVID-19 (35%), cardiovascular diseases (18%), and non-HIV-related cancers (15%).**

<sup>1</sup>Cause of death data are not yet available for 2021.

<sup>2</sup>ICD 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, 2022.

# HOW TO FIND OUR DATA

- **Our program publishes annual surveillance reports, slide sets, and statistics tables:**
  - Annual reports: <http://www1.nyc.gov/site/doh/data/data-sets/hiv-aids-surveillance-and-epidemiology-reports.page>
  - Slide sets: <http://www1.nyc.gov/site/doh/data/data-sets/epi-surveillance-slide-sets.page>
  - Statistics tables: <http://www1.nyc.gov/site/doh/data/data-sets/hiv-aids-annual-surveillance-statistics.page>
- **Other resources:**
  - HIV Care Status Reports (CSR) system: <https://www1.nyc.gov/site/doh/health/health-topics/aids-hiv-care-status-reports-system.page>
  - HIV Care Continuum Dashboards (CCDs): <http://www1.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 and transgender people. 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, 2021" 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.
- **People born outside of the U.S.** refers to people known to have been born outside of the U.S. and U.S. dependencies. This designation is regardless of immigration status, time in the U.S., language, or other factors. **People born in the U.S.** includes people born in the U.S. or U.S. dependencies, and people for whom documentation of their place of birth was not found in their medical record.

# APPENDIX:

## DEFINITIONS AND STATISTICAL NOTES

### Definitions (continued):

- **Transmission category** includes people with a 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.
- The Caribbean is comprised of the following countries: Aruba (Netherlands), Anguilla (UK), Antigua and Barbuda, Bahamas, Barbados, Bermuda (UK), British Virgin Islands (UK), Cayman Islands (UK), Cuba, Dominica, Dominican Republic, Grenada, Guadeloupe (France), Haiti, Jamaica, Martinique (France), Montserrat (UK), Netherlands Antilles (Netherlands), St. Kitts and Nevis [St. Christopher], St. Lucia, St. Vincent and The Grenadines, Trinidad and Tobago and Turks and Caicos Islands (UK).

# APPENDIX:

## TECHNICAL NOTES: NYC HIV CARE CONTINUUM

- **People with HIV** is calculated as the number of HIV-diagnosed 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, 2021.
- **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.