

# PERINATAL HIV AMONG CHILDREN IN NEW YORK CITY, 2021



HIV Epidemiology Program

New York City Department of Health and Mental Hygiene



Published November 2022

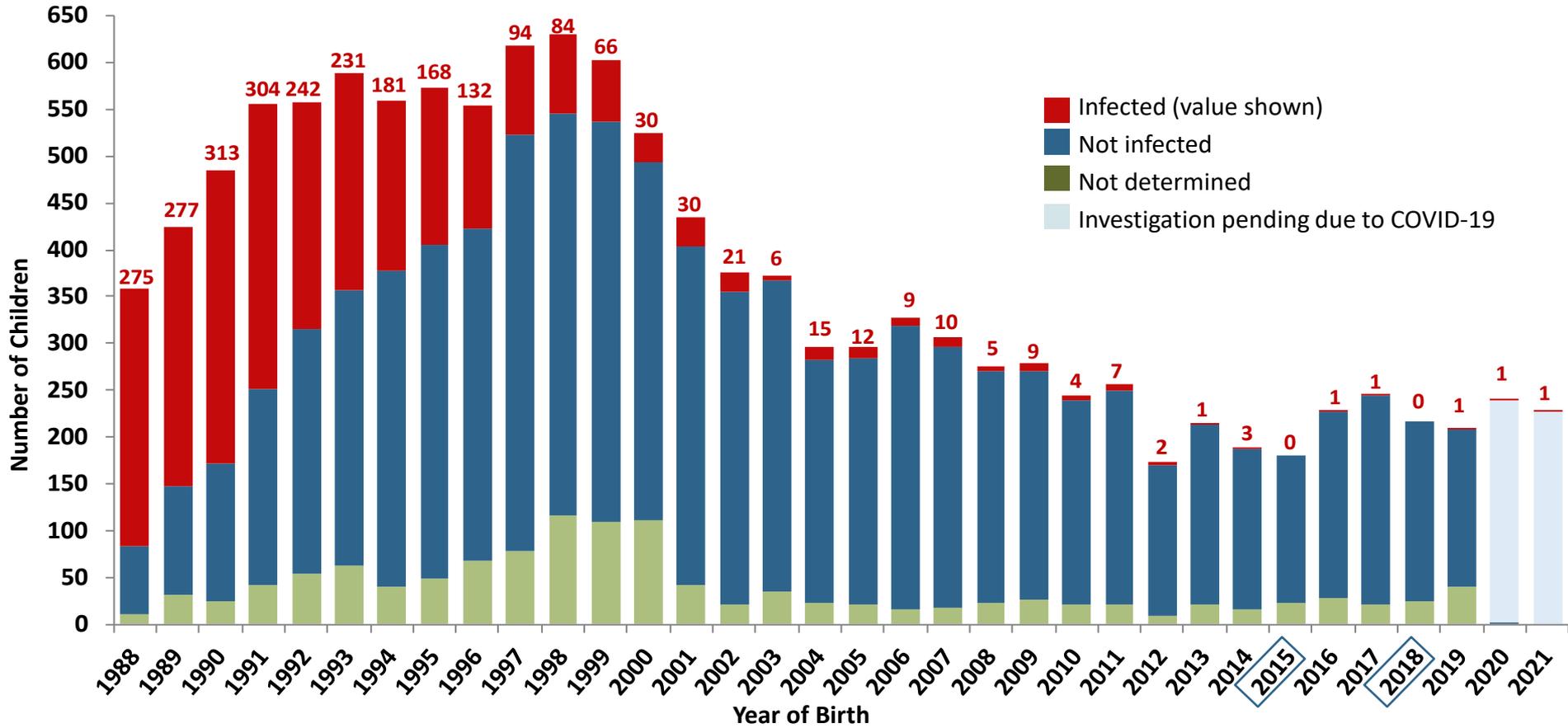
<https://www1.nyc.gov/site/doh/data/data-sets/epi-surveillance-slide-sets.page>

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# CURRENT HIV STATUS<sup>1</sup> OF CHILDREN BORN TO PEOPLE WITH HIV<sup>2</sup> AT SELECT NYC MEDICAL FACILITIES<sup>3</sup> IN NYC, 1988-2021<sup>4</sup>



**From 2017-2021, less than 1% of infants born to women with HIV tested positive for HIV. In 2015 and 2018, there were no reported perinatal transmissions in children born in NYC.**

<sup>1</sup>Children born to women with HIV at select NYC medical facilities are followed for two years after birth to determine HIV status. HIV status is labelled as “not determined” if the child is lost to follow-up.

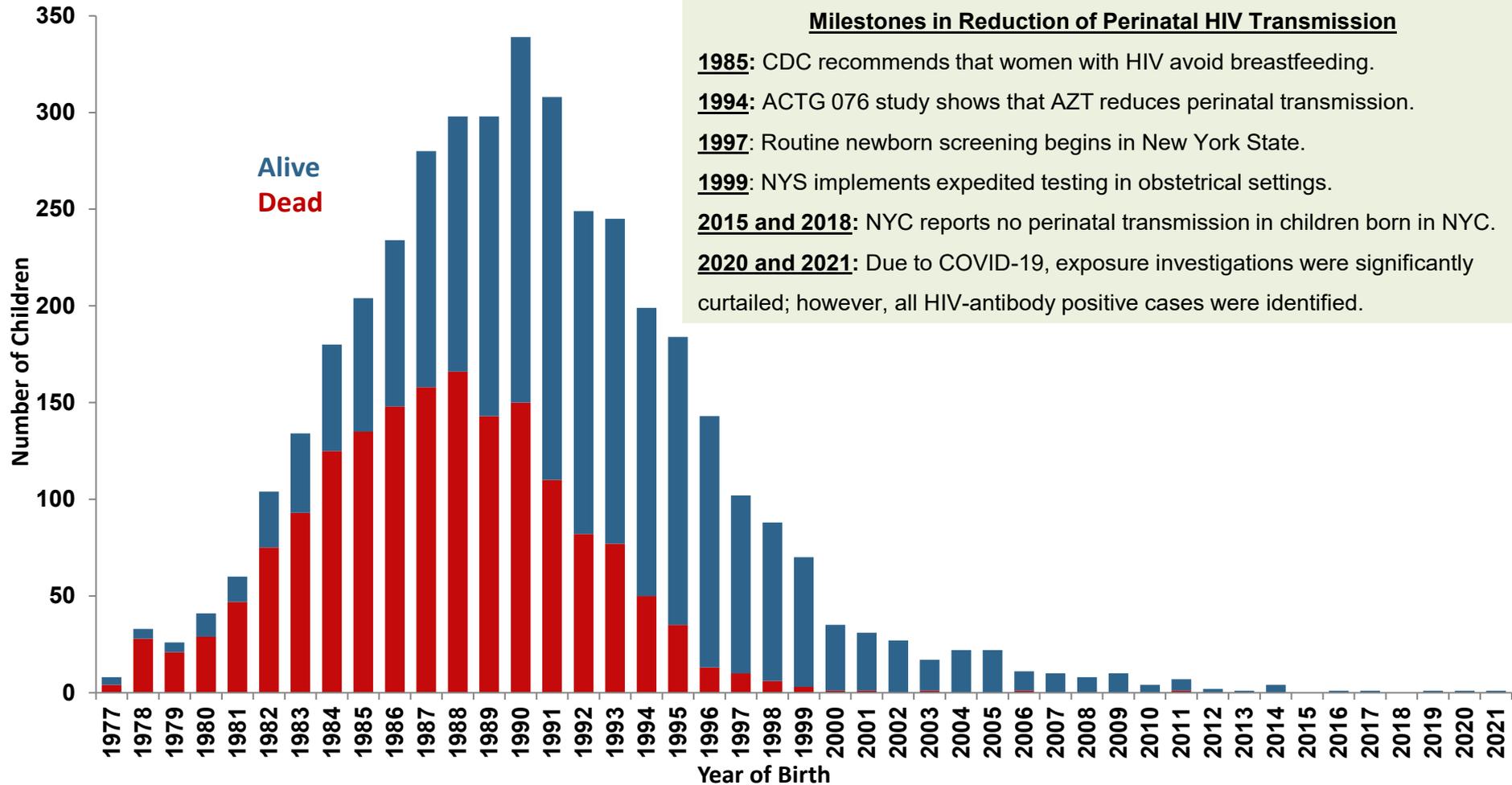
<sup>2</sup>In this figure, women refers to people with female sex assigned at birth.

<sup>3</sup>Includes data collected at high-volume NYC medical facilities that care for the majority of children born to people with HIV and children with HIV. Since 2017, NYC’s perinatal surveillance program has conducted exposure investigations at 21 NYC medical facilities. Children born outside of NYC are not included in this figure.

<sup>4</sup>Includes cases diagnosed as of December 31, 2021.

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

# CURRENT VITAL STATUS AMONG CHILDREN DIAGNOSED WITH PERINATAL HIV<sup>1</sup> IN NYC, 1977-2021



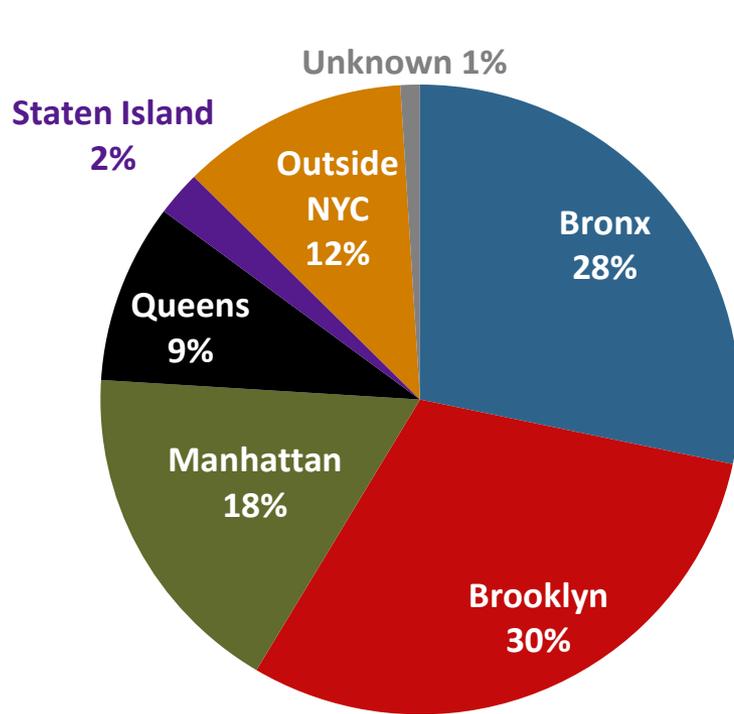
**From 2011 to 2021, there were 19 children diagnosed with perinatal HIV in NYC; 95% are currently alive.**

<sup>1</sup>Children are defined as people diagnosed with HIV between the ages of 0 and 12 years and includes those born in NYC and outside NYC.

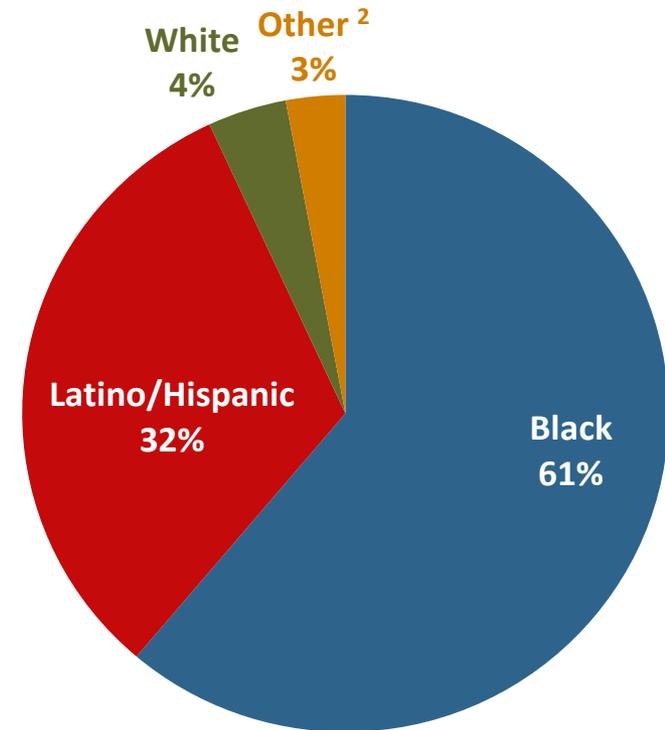
There were 4,043 children diagnosed with perinatal HIV in NYC between 1977 and 2021.

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

# DEMOGRAPHICS OF CHILDREN DIAGNOSED WITH PERINATAL HIV<sup>1</sup> IN NYC, 2001-2021



**Borough of Residence  
at Diagnosis**



**Race or Ethnicity**

**From 2001 to 2021, the largest proportions of children diagnosed with perinatal HIV resided in Brooklyn or the Bronx at the time of diagnosis. Among all children diagnosed with perinatal HIV, Black and Latino/Hispanic children accounted for the largest proportions.**

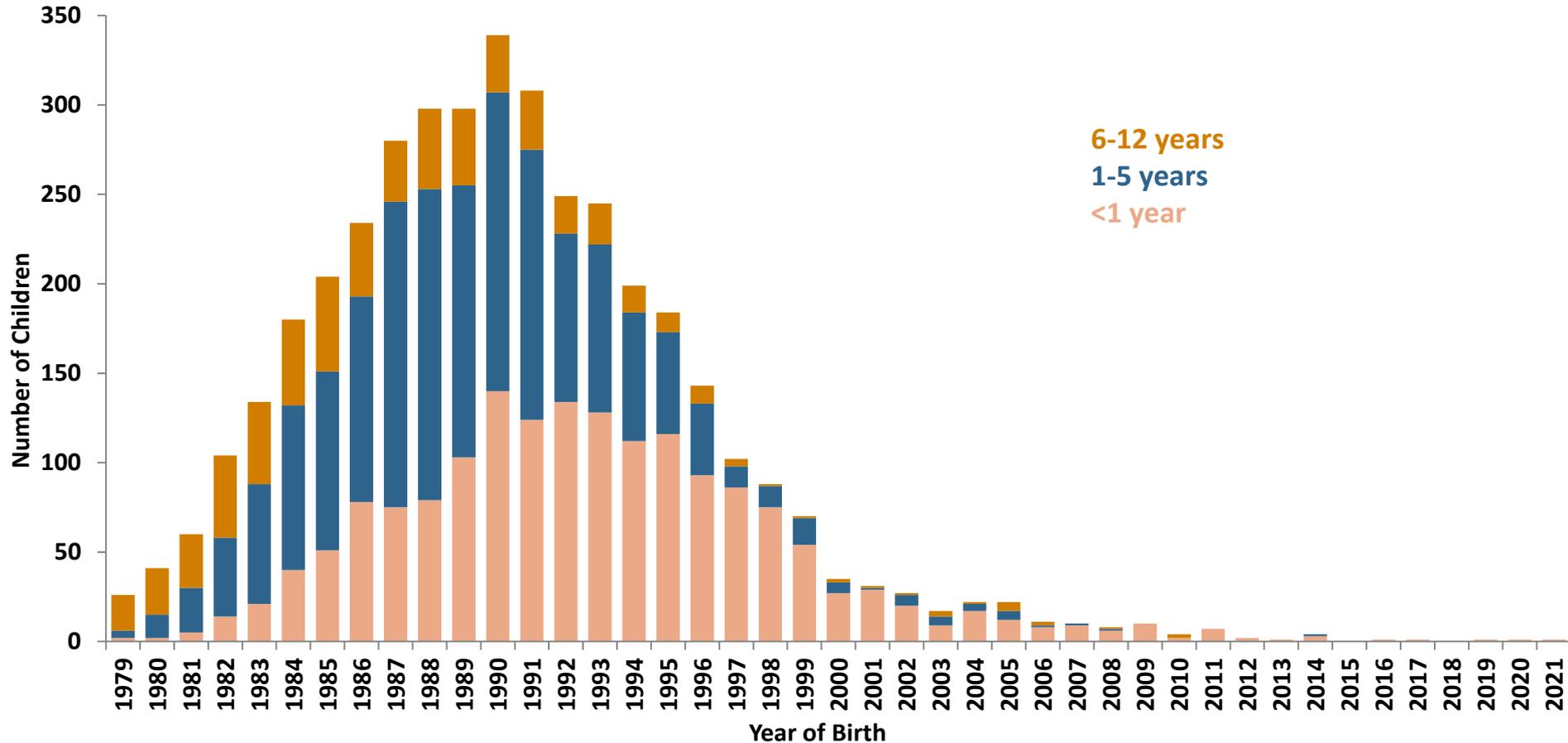
<sup>1</sup>Children are defined as people diagnosed with perinatal HIV between the ages of 0 and 12 years and includes those born in NYC and outside NYC.

<sup>2</sup>Other race/ethnicity category includes Asian/Pacific Islander, Native American, and Multiracial children.

There were 304 children diagnosed with perinatal HIV in NYC between 2001 and 2021.

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

# AGE AT DIAGNOSIS OF CHILDREN DIAGNOSED WITH PERINATAL HIV<sup>1</sup> IN NYC, 1979-2021



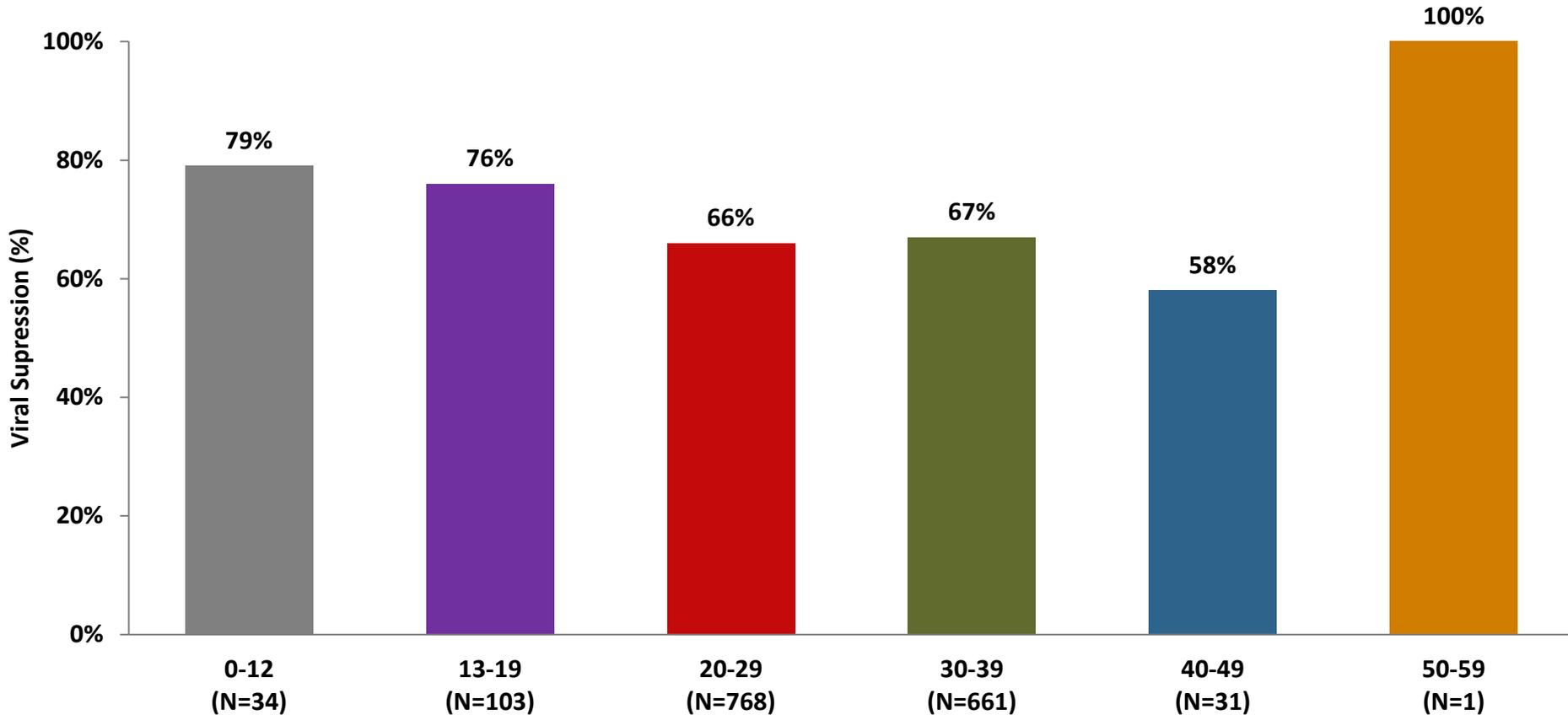
**With the introduction of newborn screening and improved HIV testing during pregnancy, there has been a dramatic decline in children diagnosed with perinatal HIV at older ages.**

<sup>1</sup>Children are defined as people diagnosed with perinatal HIV between the ages of 0 and 12 years and includes those born in NYC and outside NYC.

There were 4,002 children diagnosed with perinatal HIV in NYC between 1979 and 2021.

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

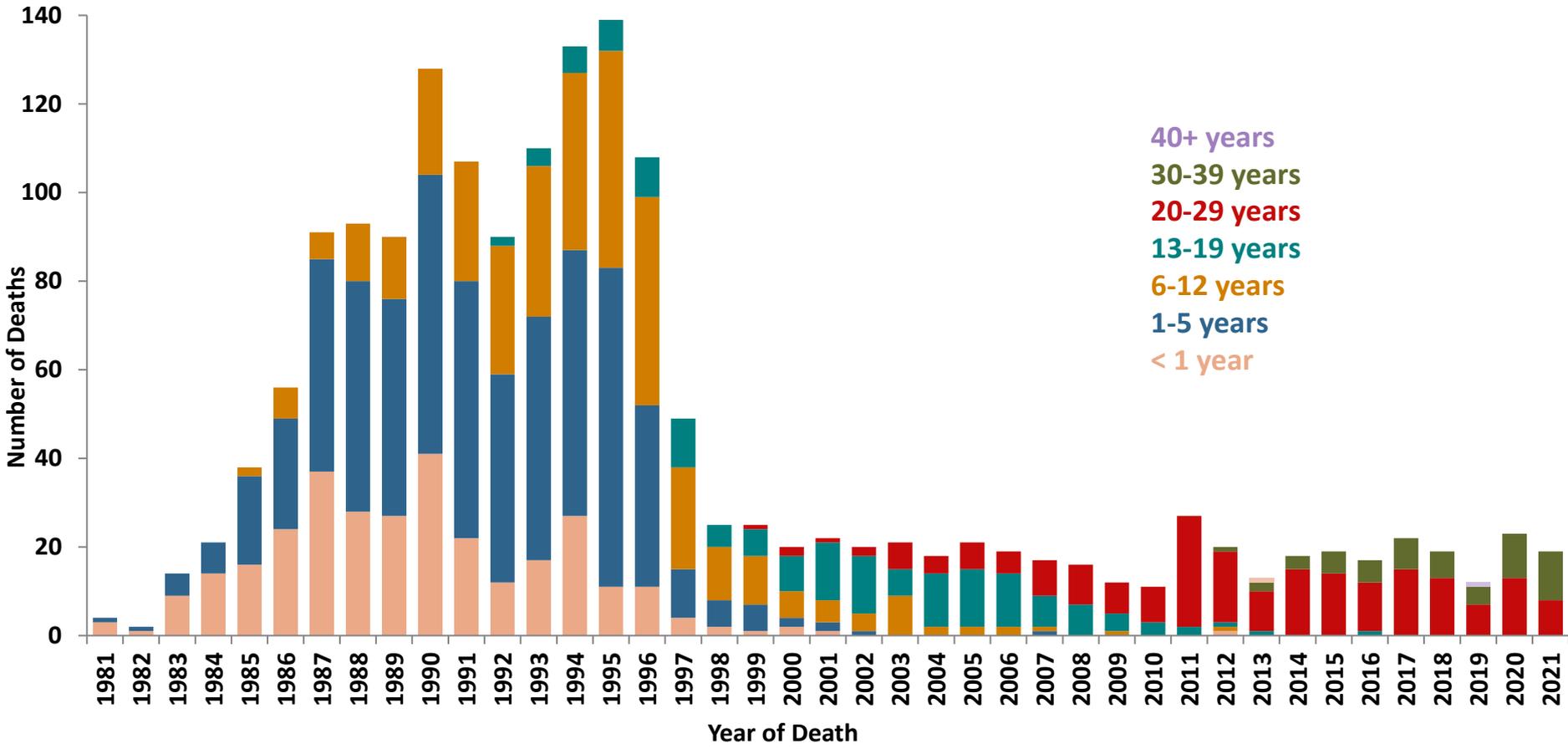
# VIRAL SUPPRESSION AMONG PEOPLE DIAGNOSED WITH PERINATAL HIV BY AGE IN NYC, 2021



**Among people initially diagnosed with perinatal HIV, those currently aged 40 to 49 had the smallest proportion virally suppressed.**

Viral suppression is calculated as people with HIV in care with a most recent viral load measurement in 2021 of <200 copies/mL, plus the estimated number of out-of-care people with HIV in 2021 with a viral load <200 copies/mL, based on a statistical weighting method. (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.) As reported to the New York City Department of Health and Mental Hygiene by March 31, 2022.

# AGE AT DEATH AMONG PEOPLE DIAGNOSED WITH PERINATAL HIV<sup>1</sup> IN NYC, 1981-2021<sup>2</sup>



**From 2016 to 2021, 98% of all deaths among people initially diagnosed with perinatal HIV occurred in people ages 20-39. This is a shift from earlier years (prior to 1995), when deaths occurred predominantly in children under 6 years of age.**

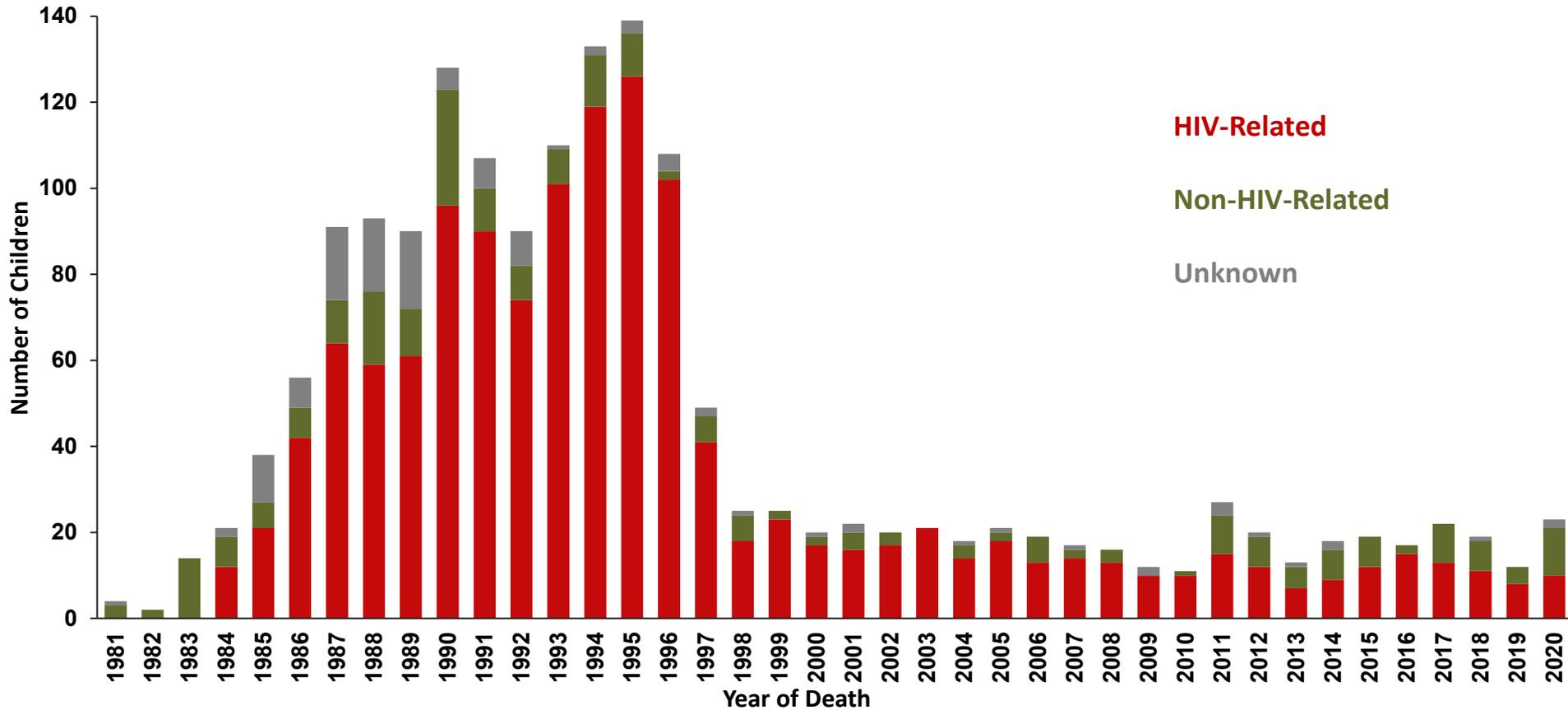
<sup>1</sup>Includes people diagnosed with perinatal HIV between the ages of 0 and 12 years . There were 1,729 deaths among this group from 1981-2021.

<sup>2</sup>Death data for 2021 are incomplete.

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



# CAUSE OF DEATH AMONG PEOPLE DIAGNOSED WITH PERINATAL HIV <sup>1</sup> IN NYC, 1981-2020<sup>2</sup>



**From 2016 to 2020, 61% of all deaths among people initially diagnosed with perinatal HIV were due to HIV-related causes.**

<sup>1</sup>People diagnosed with perinatal HIV between the ages of 0 and 12 years . There were 1,710 deaths in this group from 1981-2020.

<sup>2</sup>Cause of death data for 2021 are incomplete, data are not displayed.

<sup>3</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 1:

## DEFINITIONS AND STATISTICAL NOTES

### Perinatal and Pediatric HIV Surveillance

The HIV Epidemiology Program collects data on infants exposed to or diagnosed with HIV and children diagnosed with HIV before 13 years of age. Data are used to monitor the prevention of perinatal transmission. Perinatal and pediatric surveillance data are informed by a range of other activities and data sources, including longitudinal case follow-up, the New York State Department of Health Comprehensive Newborn Screening Program, and CDC-funded special projects related to pediatric HIV.

### Death data

Data on deaths occurring in NYC are obtained by matches with the NYC Vital Statistics Registry, medical chart reviews, and provider reports via the Provider Report Form, including HIV-positive autopsies by the Office of the Chief Medical Examiner. Data on deaths occurring outside NYC are from matches with the Social Security Death Master File and the National Death Index.

# APPENDIX 2:

## DEFINITIONS

### Definitions:

- In this slide set, children are defined as people diagnosed with HIV between the ages of 0–12 years.
- Perinatal transmission is the designated risk factor for infants who acquired HIV during gestation, birth, or postpartum through breastfeeding to a person diagnosed with HIV.
- “PLWH” refers to people living with HIV during the reporting period and not known to be dead at the end of the reporting period.
- “NYC” refers to New York City.
- For more definitions and technical notes see:  
<http://www1.nyc.gov/site/doh/data/data-sets/hiv-aids-annual-surveillance-statistics.page>.